THE INDUSTRIAL ARTS INDEX

1942

American Jewish Committee
LIBRARY

Z
7913
I7
1942
N/C

Applied science & technol
index //

THE
INDUSTRIAL ARTS INDEX

THIRTIETH ANNUAL VOLUME

1942

SUBJECT INDEX TO A SELECTED LIST OF ENGINEERING, TRADE
AND BUSINESS PERIODICALS, BOOKS AND PAMPHLETS

EDITED BY
MARION E. POTTER, LOUISE D. TEICH,
LEONE BAKER, RUTH BERKOWITZ

27 Mar 69

NEW YORK
THE H. W. WILSON COMPANY
1943

R050a
I

This volume has been supplied under a contract which provides that it is not to be sold or given away without the permission of the publishers.

PRINTED IN U. S. A.

PREFACE

The thirtieth annual volume of the Industrial Arts Index is a cumulation of the monthly issues published from December, 1941, thru November, 1942. In the list of magazines indexed, the French and German titles have been retained, altho no French periodicals have been received since the beginning of the war, and no German periodicals since June, 1941. It is hoped that the indexing of these periodicals will be included later. Because of the omission of these foreign periodicals eighteen additional American publications were indexed in 1941. This year there have been no additions to the list and few changes. Transit Journal discontinued publication with the December, 1942 number. R C A Review suspended publication with the April, 1942, number. The Journal of the Aeronautical Sciences Review Section is now published as the Aeronautical Engineering Review. American Photography, having absorbed Photo Technique last January, the indexing of that journal was included. In addition to the indexing of the listed periodicals, this volume contains subject entries for numerous bulletins, reports, and pamphlets on topics which the indexed periodicals cover. It contains also subject entries for 2654 books which have been listed first in the monthly Index, in the section "Some Recent Book Titles" before becoming a part of the main alphabet.

M. E. P.

9436
M
7321

List of Periodicals Indexed

Acoustical Soc Am J—Journal of the Acoustical Society of America. $6. q American Institute of Physics, 175 Fifth Av, New York (1v:Jl v14;i-s)

Indexing began July 1940 v 12, no 1

Adv & Sell—Advertising and Selling. $3; single numbers 25c. m Robbins Pub. Co, Inc, 9 E 38th St, New York (1v:Ja v35;i-none)

Usual extra number included as part of February 1942

Advanced Management—Advanced Management. $6. q Society for the Advancement of Management, Inc. 29 W 39th St, New York (1v:Ja v7;i-l)

Formerly Society for the Advancement of Management Journal, a bi-monthly

Aero Digest—Aero Digest. $3; single numbers 50c. m Aeronautical Digest Pub. Corp, 515 Madison Av, New York (2v:Ja,Jl v40-41;i-s)

Aeronautical Eng R—Aeronautical Engineering Review. $3; single numbers 30c. m Institute of the Aeronautical Sciences, Inc, 30 Rockefeller Plaza, New York (1v:Ap v 1;i-s)

Formerly Journal of the Aeronautical Sciences, Aeronautical Review Section

Price of November issue $1

Am Assn of Textile Chemists and Colorists. Proceedings. Published in American Dyestuff Reporter

Am Assn Pet Geologists Bul—Bulletin of the American Association of Petroleum Geologists. $15; single numbers $1.50. m American Association of Petroleum Geologists, Inc. 708 Wright Bldg, Tulsa, Oklahoma (1v:Ja v26;i-s) i-s)

Am Bankers Assn J. See Banking

Am Bld—American Builder and Building Age. $2; single numbers 25c. m Simmons-Boardman Pub. Corp, 30 Church St, New York (1v:Ja v64;i-none)

Am Business—American Business combined with System. $3; single numbers 35c. m Dartnell Publications, Inc, 4660 Ravenswood Av, Chicago (1v:Ja v12;i-none)

Indexing began August 1935 when it was combined with System

Am Cer Soc Bul—Bulletin of the American Ceramic Society. $1.50; single numbers 25c. m American Ceramic Society, 2525 N High St, Columbus, Ohio (1v:Ja v21;i-s)

Published as American Ceramic Society Journal and Bulletin from January thru April 1942. Beginning with May 1942 published as American Ceramic Society Ceramic Abstracts and Bulletin

Am Cer Soc J—Journal of the American Ceramic Society. $15; single numbers $1.50. m American Ceramic Society, 2525 N High St, Columbus, Ohio (1v:Ja 25;i-s)

From January thru April 1942 published the first of each month as Journal and Abstracts and on the 15th of each month as Journal and Bulletin, the Journal and Bulletin continuing their own volume numbers and pagination. Beginning with the May, 1942, issue the Journal resumed monthly publication (the first of the month) and Ceramic Abstracts and Bulletin were combined and are published the 15th of each month

Am Cer Soc J (Bul)—Journal and the Bulletin, American Ceramic Society. $1.50; single numbers 25c. m American Ceramic Society, 2525 N. High St, Columbus, Ohio

Am Chem Soc J—Journal of the American Chemical Society. $8.50. m Charles L. Parsons, sec, 1155 16th St, N.W, Washington, D.C. (1v:Ja v64;i-s)

Am Concrete Inst J—Journal of the American Concrete Institute. $7.50; single numbers $1.50. 6 times a year (S, N, Ja, F, Ap, Je) American Concrete Institute, 7400 Second Blvd, Detroit, Mich. (1v:S v14;i-s)

Began publication as v 1 (Proceedings, v 26) November, 1929

Am Dyestuff Rep—American Dyestuff Reporter. $5; single numbers 50c. bi-w Howes Pub. Co, 440 4th Av, New York (1v:Ja v31;i-s)

Includes Proceedings of American associations of textile chemists and colorists

Am Gas Assn Mo—American Gas Association Monthly. $3. m (bi-m Jl-Ag) American Gas Assn, Inc, 420 Lexington Av, New York (1v:Ja v24;i-l)

Am Gas Assn Proc—American Gas Association Proceedings. Annual conventions. Proceedings. annual American Gas Association, Inc, 420 Lexington Av, New York (23d annual convention, 1941)

Am Gas J—American Gas Journal. $2; single numbers 25c. m American Gas Journal, Inc, Dodge Bldg, 53 Park Pl, New York (2v:Ja, Jl v156-157;i-l)

Am Inst Banking Bul—Bulletin of the American Institute of Banking. $1; single numbers 25c. q American Bankers Assn, American Institute of Banking Section, 22 E 40th St, New York (1v:Ja v24;i-r)

Am Inst Chem Eng Trans—American Institute of Chemical Engineers. Transactions. $10; single numbers $2. bi-m American Institute of Chemical Engineers, 50 E 41st St, New York (1v:F v38;i-s)

Changed from a quarterly to a bi-monthly beginning February 1938

Am Inst E E J. See Elec Eng

Am Inst of Mining and Metallurgical Engineers. See Min & Met

Am J Sci—American Journal of Science. $6; single numbers 60c. m American Journal of Science, New Haven, Conn. (1v:Ja v240;i-s)

Am Mach—American Machinist. $5; single numbers 35c. bi-w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v86;i-r)

Am Pet Inst Proc—American Petroleum Institute Proceedings. 50 W 50th St, New York (22d annual meeting, 1941, v22, pts 1,3,4)

No mid-year meeting for 1942

Am Phot—American Photography. $2.50; single numbers 25c. m American Photographic Pub. Co, 353 Newbury St, Boston, Mass. (1v:Ja v36;i-r)

Absorbed Photo Technique, January, 1942

Am Soc C E Proc—Proceedings of American Society of Civil Engineers. $8; single numbers $1. m (except Jl and Ag) American Society of Civil Engineers, 33 W 39th St, New York (1v:Ja v68;i-s)

Publications of societies, institutions, etc. are listed under the names of the organizations.
i-l=index sent loose; **i-r=index sent upon request; i-s=index stitched in volume.**
Month abbreviation followed by volume number=Month in which new volume begins and the number of the new volume beginning in 1942.

Am Soc for Metals Trans—Transactions of the American Society for Metals. $5; single numbers $2. q American Society for Metals, 7301 Euclid Av, Cleveland, Ohio (1v:Mr v30;i-r)
Formerly Transactions of American Society for Steel Treating

Am Soc Heat & V E J. See Heating-Piping

Am Soc M E J. See Mech Eng

Am Soc Steel Tr Trans. See Am Soc for Metals Trans

Am Soc T M Proc—American Society for Testing Materials. Proceedings. annual American Society for Testing Materials, 260 S Broad St, Philadelphia (1v:v41)

Am Statis Assn J—Journal of the American Statistical Association. $6; single numbers $1.50. q American Statistical Association, American University, Washington, D.C. (1v:Mr v37;i-s)

Am Water Works Assn J—Journal of the American Water Works Association. $7; single numbers 75c, to members 50c. m American Water Works Assn, 22 E. 40th St, New York (1v:Ja v34;i-l)

Angew Chemie—Angewandte Chemie. RM 38; single numbers RM 1.70 bi-w Verlag Chemie, G. m. b. H, Woyrschstrasse 37, Berlin W 35, Germany (1v:Ja v54;i-l)
Indexed thru June 7, 1941

Ann Am Acad—Annals of the American Academy of Political and Social Science. $5; single numbers $2. bi-m American Academy of Political and Social Science, 3457 Walnut St, Philadelphia (6v:Ja,Mr,My,Jl,S,N v219-224;i-s)

Arch Forum—Architectural Forum. $4; single numbers $1. m Time, Inc, 330 E 22d St, Chicago (2v:Ja,Jl v76-77;i-r)

Arch Rec—Architectural Record combined with American Architect and Architecture. $3; single numbers $1. m F. W. Dodge Corp, 115 W 40th St, New York (2v:Ja,Jl v91-92;i-s)
Purchased American Architect and Architecture, March 1938

Assn of Sp Lib & Inf Bur Proc—Association of Special Libraries and Information Bureaux Proceedings. 5s. annual Association of Special Libraries and Information Bureaux, 31 Museum St, London, W.C. 1
Not published in 1941, 1942

Automobile Eng—The Automobile Engineer. £1 17s 4d; single numbers 2s 6d. m Iliffe & Sons, Ltd, Dorset House, Stamford St, London, S.E. 1 (1v:Ja v32;i-r;cost 6d)
Extra motor show review number published in November

Automotive & Aviation Ind—Automotive and Aviation Industries. $1; single numbers 25c. s-m Chilton Co, Chestnut & 56th Sts, Philadelphia (2v:Ja,Jl v86-87;i-none)

Automotive Ind—Automotive Industries. $1; single numbers 25c. s-m Chilton Co, Chestnut & 56th Sts, Philadelphia (2v:Ja,Jl v84-85;i-none)
Name changed to Automotive and Aviation Industries, February 1, 1942

Aviation—Aviation. $3; single numbers 50c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v41;i-none)

Bankers M—Bankers Magazine. $5; single numbers 50c. m Bankers Publishing Co, 465 Main St, Cambridge, Mass. (2v:Ja,Jl v144-145;i-r)

Bankers Mo—Bankers Monthly. $5; single numbers 50c. m Rand McNally & Co, 536 South Clark St, Chicago (1v:Ja v59;i-none)
Formerly Rand McNally Bankers Monthly

Banking—Banking; Journal of the American Bankers Association. $3; single numbers 25c. m American Bankers Association, 22 E 40th St, New York (1v:Jl v35;i-r)
Formerly American Bankers Association Journal

Barron's—Barron's. $10; single numbers 25c. w Barron's Pub. Co, Inc, 40 New St, New York (1v:Ja v22;i-r)

Bell System Tech J—Bell System Technical Journal. $1.50; single numbers 50c. irr American Telephone and Telegraph Co, 195 Broadway, New York
Published irregularly in 1942
October 1941 and June 1942 numbers indexed in this volume

Blast F & Steel Pl—Blast Furnace and Steel Plant. $2; single numbers 50c. January and August numbers $1 ea. m Steel Publications, Inc, Thaw Bldg, 108 Smithfield St, Pittsburgh, Pa. (1v:Ja v30;i-r)

Boston Soc C E J—Journal of the Boston Society of Civil Engineers. $4; single numbers $1. q Boston Society of Civil Engineers, 715 Tremont Temple, Boston (1v:Ja v29;i-s)

Brick & Clay Rec—Brick and Clay Record. $5; single numbers 50c. m Industrial Publications, Inc, 59 E Van Buren St, Chicago (2v;Ja,Jl v100-101;i-s)

Burroughs Clearing House—Burroughs Clearing House. m Burroughs Adding Machine Co, Second Blvd. and Burroughs Av, Detroit, Mich. (1v:O v27;i-none)

Bus Transportation—Bus Transportation. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v21;i-s)

Business Week—Business Week. $5; single numbers 20c. w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (without vol no;i-r)

Can Chem & Process Ind—Canadian Chemistry and Process Industries. $4; single numbers 40c. m Westman Publications, Ltd, 137 Wellington St, West, Toronto, Ont. 2 (1v:Ja v26; i-r)
Formerly Canadian Chemistry and Metallurgy

Can Eng R & B—Canadian Engineer: Roads and Bridges. $2; $3 in U. S; with Water and Sewage section $3; $4.50 in U.S. m Monetary Times Printing Co. of Canada, Ltd, 341 Church St, Toronto, Ont. 2 (1v:Ja v79;i-none)
Name changed to Roads and Bridges, January, 1942

Can Eng W & S—Canadian Engineer: Water and Sewage. $2; $3 in U.S; with Roads and Bridges section $3; $4.50 in U.S. m Monetary Times Printing Co. of Canada, Ltd, 341 Church St, Toronto, Ont. 2 (1v:Ja v79;i-none)
Name changed to Water and Sewage, December, 1941

Can Min J—Canadian Mining Journal. $3. m National Business Publications, Ltd, Gardenvale, Que. (1v:Ja v63;i-s)

Cer Ind—Ceramic Industry. $4; single numbers 50c. m Industrial Publications, Inc, 59 E Van Buren St, Chicago (2v:Ja,Jl v38-39;i-s)

Chem Age (Lond)—The Chemical Age. 26s; single numbers 8d. w Benn Brothers, Ltd, Bouverie House, 154 Fleet St, London, E.C. 4 (2v:Ja,Jl v46-47;i-r)

Chem & Eng N—Chemical and Engineering News. $2; single numbers 15c. s-m American Chemical Society, Charles L. Parsons, sec, 1155 16th St, N.W. Washington, D.C. (1v:Ja v20;i-s)

Chem & Ind—Chemistry and Industry. £2 15s. single numbers 1s 1d. w Society of Chemical Industry. Clifton House, Euston Road, London, N.W.1 (1v:Ja v61;i-r)
Published as section of Journal of the Society of Chemical Industry until 1937
Subscription price including Journal of the Society of Chemical Industry and Abstracts £5

Chem & Met Eng—Chemical and Metallurgical Engineering. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v49;i-s)

Chem Ind—Chemical Industries. $4; single numbers 50c. m Tradepress Pub. Corp, 522 Fifth Av, New York (2v:Ja,Jl v50-51;i-l)
Published twice in October; second issue, Buyer's Guidebook number

Chem R—Chemical Reviews. $9. ($7 to members of American Chemical Society) bi-m Williams & Wilkins Co, Mount Royal and Guilford Avs, Baltimore, Md. (2v:F,Ag v30-31;i-s)

Chem Soc J—Journal of the Chemical Society. £3 10s. m S. E. Carr, The Chemical Society, Burlington House, Piccadilly, London, W. 1 (without vol no;i-l)

Chimie & Ind—Chimie & Industrie. $30; single numbers $2.50. s-m Société de Chimie Industrielle, 28 Rue Saint-Dominique, Paris, France (1v:Ja v43;i-r)

No numbers received after May 1940

Civil Aero J—Civil Aeronautics Journal; Issued monthly by the Civil Aeronautics Administration. 50c; single numbers 5c. m Superintendent of Documents, Washington, D.C. (1v:Ja v3;i-s)

Formerly Air Commerce Bulletin

Changed from semi-monthly to monthly, May 1912

Civil Eng—Civil Engineering. $5; single numbers 50c. m American Society of Civil Engineers, 33 W 39th St, New York (1v:Ja v12; i-s)

Coal Age—Coal Age. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v47;i-s)

Comm & Fin Chr—Commercial & Financial Chronicle. $26; single numbers 60c. s-w William B. Dana Co, 25 Spruce St, New York (2v:Ja,Jl v155-156;i-l)

Combined with Security Dealers Weekly Financial Reporter, September 4, 1941, when it changed to a three times a week publication and began a new volume, v 154

With February 17, 1942 number changed again to twice a week, Tuesday and Thursday; beginning March 2, Monday and Thursday

Comp Air M—Compressed Air Magazine. $3; single numbers 35c. m Compressed Air Magazine Co, Phillipsburg, New Jersey (1v:Ja v47; i-r)

Concrete—Concrete. $2; mill ed. $3; single numbers 40c. m Concrete Pub. Corp, Daily News Plaza, 400 W Madison St, Chicago (1v:Ja v50;i-s)

Consumers' Research Bul—Consumers' Research Bulletin (Not Confidential). $2; single numbers 30c. m (except Jl and Ag) Consumers' Research, Inc, Washington, New Jersey (1v:O v11;i-s)

Beginning October 1941, the Bulletin was combined with Consumers' Digest [discontinued with June, 1941, issue], dropped the numbering of General Bulletin Series and continued the volume number of the Digest [volume 9]

Credit & Fin Management—Credit and Financial Management. $3; single numbers 25c. m National Association of Credit Men, 1 Park Av, New York (1v:Ja v44;i-s)

Diesel Power—Diesel Power and Diesel Transportation. $3; single numbers 35c. m Diesel Publications, Inc, 192 Lexington Av, New York (1v:Ja v20;i-none)

Dom Eng—Domestic Engineering. $2; single numbers 25c. m Domestic Engineering Co, 1900 Prairie Av, Chicago (2v:Ja,Jl v159-160; i-none)

Dun's R—Dun's Review. $4; single numbers 35c. m Dun & Bradstreet, Inc, 290 Broadway, New York (1v:Ja v50;i-s)

Formerly Dun & Bradstreet Monthly Review

Dun's Statis R—Dun's Statistical Review. $1; single numbers 10c. m Dun & Bradstreet, Inc, 290 Broadway, New York (1v:Ja v6;i-none)

East Underw—Eastern Underwriter. $3; single numbers 25c. w Eastern Underwriter Co, 41 Maiden Lane, New York (1v:Ja v43;i-none)

Econ Geol—Economic Geology. $5; single numbers 75c. s-q Economic Geology Pub. Co, Prince and Lemon Sts, Lancaster, Pa. (1v:Ja v37;i-s)

Economist—Economist. £3; single numbers 1s. w Economist Newspaper, Ltd, Brettenham House, Lancaster Place, London, W.C. 2 (2v:Ja,Jl v142-143;i-l)

Edison Elec Inst Bul—Edison Electric Institute Bulletin. $2; single numbers 25c. m Edison Electric Institute, 420 Lexington Av, New York (1v:Ja v10;i-l)

November and December 1942 numbers combined

Elec Eng—Electrical Engineering. $12; single numbers $1.50. m American Institute of Electrical Engineers, 33 W 39th St, New York (1v:Ja v61;i-l)

Elec R (Lond)—Electrical Review. £1 14s 8d; Canadian subs £1 12s 6d; single numbers 6d. w Electrical Review, Dorset House, Stamford St, London, S.E. 1 (2v:Ja,Jl v130-131;i-r)

v128 began Nov. 8, 1940 (smaller size)

Elec W—Electrical World. $5; single numbers 25c. w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (2v:Ja,Jl v117-118;i-s)

Regular issue alternates with a News Edition

Elec West—Electrical West. $2; single numbers 25c. m McGraw-Hill Co. of California, 68 Post St, San Francisco, Calif. (2v:Ja,Jl v88-89;i-r)

Electrician—Electrician. 30s; single numbers 6d. w Benn Bros, Ltd, Bouverie House, 154 Fleet St, London, E.C. 4 (2v:Ja,Jl v128-129; i-l)

Electrochem Soc Trans—The Electrochemical Society. Transactions. The Electrochemical Society, Columbia University, New York

Formerly American Electrochemical Society

Preprints are indexed

Electronics—Electronics. $5; single numbers 50c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v15;i-s)

Price of the June issue $1

Eng & Min J—Engineering and Mining Journal. $3; single numbers 50c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v143;i-s)

Eng Educ. See J Eng Educ

Eng N—Engineering News-Record. $5; single numbers 25c. w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (2v:Ja,Jl v128-129; i-s)

Engineer—Engineer. £3 3s; Canadian subs £2 18s 6d; single numbers 1s 3d w Engineer, 28, Essex St, Strand, London, W.C. 2 [with bi-monthly supplement "Metallurgist"] (2v:Ja, Jl v173-174;i-l)

Bi-monthly supplement "Metallurgist" suspended for the duration of the war

Engineering—Engineering. Thick paper ed £3 7s 6d; Canadian subs £3 3s; thin paper ed £3 3s; Canadian subs £2 18s 6d; single numbers 1s 2½d w Engineering, Ltd, 35 and 36, Bedford St, Strand, London, W.C. 2 (2v:Ja,Jl v153-154;i-r)

Explosives Eng—The Explosives Engineer. $1; single numbers 15c. m Explosives Engineer, 939 Delaware Trust Bldg, Wilmington, Delaware (1v:Ja v20;i-s)

Factory Management—Factory Management and Maintenance. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v100;i-r)

Fed Res Bul—Federal Reserve Bulletin. $2; single numbers 20c (to non-members). m Board of Governors of the Federal Reserve System, Constitution Av at 20th St, Washington, D.C. (1v:Ja v28;i-s)

Food Ind—Food Industries. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v14;i-s)

For Comm W—Foreign Commerce Weekly. $4.50; single numbers 10c. w Superintendent of Documents, Washington, D.C. (4v:Ja,Ap, Jl,O v6-9;i-l)

Replaces Commerce Reports and Comparative Law Series

Fortune—Fortune. $10; single numbers $1. m Time, Inc, 330 E 22d St, Chicago (2v:Ja,Jl v25-26;i-r)

Foundry—Foundry. $2; single numbers 25c. m Penton Pub. Co, Penton Bldg, Cleveland, O. (1v:Ja v70;i-r)

Franklin Inst J—Journal of the Franklin Institute. $6; single numbers 60c. m Franklin Institute, Benjamin Franklin Parkway at 20th St, Philadelphia (2v:Ja,Jl v233-234;i-s)

Gas Age—Gas Age combining Natural Gas, Gas Age, Gas Record. $3; single numbers 25c. bi-w Robbins Pub. Co, Inc, 9 E 38th St, New York (2v:Ja,Jl v89-90;i-l)

Gas J (Lond)—Gas Journal. single numbers 1s. w Walter King, Ltd, 11 Bolt Court, Fleet St, London, E.C. 4 (4v:Ja,Ap,Jl,O v237-240;i-l)

Gen Elec R—General Electric Review. $3; single numbers 30c. m General Electric Co, Schenectady, N.Y. (1v:Ja v45;i-l)

Génie Civil—Le Génie Civil. 280 fr; single numbers 5 fr. w Génie Civil, 5 Rue Jules-Lefebvre, Paris (9^{e}), France (2v:Ja,Jl v116-117;i-l)

No numbers received after June 1, 1940

Geol Soc Bul—Bulletin of the Geological Society of America. $10. m Geological Society of America, H. R. Aldrich, sec, 419 W 117th St, New York (1v:Ja v53;i-l)

Glass Ind—Glass Industry. $3; single numbers 25c. m Ogden-Watney Publishers, Inc, 55 W 42d St, New York (1v:Ja v23;i-none)

Harvard Business R—Harvard Business Review. $5; single numbers $1.25. q McGraw-Hill Book Co, Inc, 330 W 42d St, New York (1v:[S] v21;i-s)

Heat & Ven—Heating and Ventilating. $2; single numbers 30c. m Industrial Press, 148 Lafayette St, New York (1v:Ja v39;i-r)

Heating-Piping—Heating, Piping and Air Conditioning. $2; single numbers 25c. m Keeney Pub. Co, 6 N Michigan Av, Chicago (1v:Ja v14;i-s)

Includes American Society of Heating and Ventilating Engineers Journal section

Ill U Eng Exp Sta Bul—Illinois University Engineering Experiment Station. Bulletin. irr Univ. of Ill, Urbana

Ill U Eng Exp Sta Circ—Illinois University Engineering Experiment Station. Circular. irr Univ. of Ill, Urbana

Illum Eng—Illuminating Engineering including Transactions of the Illuminating Engineering Society. $7.50; single numbers $1. m (except Ag and O) Illuminating Engineering Society, 51 Madison Av, New York (1v:Ja v37;i-s)

Illum Engr. See Light & Lighting

Ind & Eng Chem—Industrial and Engineering Chemistry Industrial Edition. single numbers 75c. m American Chemical Society, Charles L. Parsons, sec, 1155 16th St, N.W, Washington, D.C. (1v:Ja v34;i-s)

With Analytical edition $4

Ind & Eng Chem Anal ed—Industrial and Engineering Chemistry Analytical Edition. single numbers 50c. m American Chemical Society, Charles L. Parsons, sec, 1155 16th St, N.W, Washington, D.C. (1v:Ja v14;i-s)

Ind Marketing—Industrial Marketing. $2; single numbers 20c. m (s-m during O) Advertising Publications, Inc, 100 East Ohio St. Chicago (1v:Ja v27;i-none)

Ind Med—Industrial Medicine. $5; single numbers 50c. m Industrial Medicine Pub. Co, 605 North Michigan Av, Chicago (1v:Ja v11; i-s)

Ind Stand—Industrial Standardization and Commercial Standards Monthly. $4; single numbers 35c. m American Standards Association, 29 W 39th St, New York (1v:Ja v13;i-l)

No August 1942 number published

Index—Index. q New York Trust Company, 100 Broadway, New York (1v:[Mr] v22;i-l)

India Rubber W—India Rubber World. $3; single numbers 35c. m Bill Brothers Publishing Corporation, 386 4th Av, New York (2v:Ap, O v106-107;i-s)

Inland Ptr—Inland Printer. $4; single numbers 40c. m Tradepress Pub. Corp, 522 5th Av, New York (2v:Ap,O v109-110;i-none)

Ins Field (Fire ed)—Insurance Field (Fire and Casualty Edition). $3; single numbers 15c. w Insurance Field Co, Inc, 322 West Liberty St, (P. O. Box 1164) Louisville, Ky. (1v:Ja v71;i-none)

Ins Field (Life ed)—Insurance Field (Life Edition). $3; single numbers 15c. w Insurance Field Co, Inc, 322 West Liberty St, (P. O. Box 1164) Louisville, Ky. (1v:Ja v71;i-none)

Inst Chem Eng Trans—Transactions of the Institution of Chemical Engineers. annual Institution of Chemical Engineers, 56 Victoria St, Westminster, London, S.W. 1 (1v:v18 1940)

Indexing began with volume 9, 1931

Inst E E J—Journal of the Institution of Electrical Engineers. single numbers pt1 5s; pt2 7s 6d; pt3 6s m E. & F. N. Spon, Ltd, 57 Haymarket, London, S.W. 1; Chemical Pub. Co. of New York, 236 King St, Brooklyn, New York (1v:Ja v89;i-none)

Beginning with volume 88 published in three parts: pt 1, General, m (Ja); pt 2, Power Engineering, bi-m (F); pt 3, Communication Engineering, q (Mr)

Inst Mech Eng J & Proc—Institution of Mechanical Engineers. Journal and Proceedings. Published 10 times a year Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W. 1 (2v:Ap,N v147-148;i-s)

Inst Pet J—Journal of the Institute of Petroleum. single numbers 7s 6d. m Institute of Petroleum, % Imperial College of Science and Technology, South Kensington, London, S.W.7 (1v:Ja v28;i-s)

Formerly Journal of the Institution of Petroleum Technologists

Inst Radio Eng Proc—Proceedings of the Institute of Radio Engineers. $10; single numbers $1. m Institute of Radio Engineers, Inc, 330 W 42d St, New York (1v:Ja v30;i-s)

Instruments—Instruments, the Magazine of Measurement and Control. $2. m Instruments Pub. Co, 1117 Wolfendale St, Pittsburgh, Pa. (1v:Ja v15;i-s)

Int Labour R—International Labour Review. $6; single numbers 60c. m International Labour Office, 734 Jackson Pl, Washington, D.C. (2v:Ja,Jl v45-46;i-s)

Inv Banking—Investment Banking. irr Investment Bankers Association of America, 33 S Clark St, Chicago (1v:v12;i-none)

Iron Age—Iron Age. $8; single numbers 35c. w Chilton Co, Inc, Chestnut & 56th Sts, Philadelphia; 100 E 42d St, New York (2v:Ja,Jl v149-150;i-r)

Iron & Steel Inst J—Journal of the Iron and Steel Institute. s-annual Iron and Steel Institute, 4, Grosvenor Gardens, London, S. W. 1 (2v:v143-144,1941,nos1-2)

J Account—Journal of Accountancy. $4; single numbers 35c. m American Institute Pub. Co, Inc, 13 E 41st St, New York (2v:Ja,Jl v73-74; i-s)

J Aeronautical Sci—Journal of the Aeronautical Sciences. $7; single numbers 70c; m Institute of the Aeronautical Sciences, Inc, 30 Rockefeller Plaza, New York (1v:N v9;i-s)

V9 N '41-D '42; v10 Ja '43

J Aeronautical Sci Aeronautical R Sec—Journal of the Aeronautical Sciences Aeronautical Review Section. $2.50; single numbers 25c. m Institute of the Aeronautical Sciences, Inc, 30 Rockefeller Plaza, Rockefeller Center, New York

Name changed to Aeronautical Engineering Review, April 1942

J Ap Phys—Journal of Applied Physics. $7; single numbers 70c. m American Institute of Physics, 175 Fifth Av, New York (1v:Ja v13;i-s)

J Business—Journal of Business of the University of Chicago. $4; single numbers $1.25. q University of Chicago Press, 5750 Ellis Av, Chicago (1v:Ja v15;i-s)

J Chem Educ—Journal of Chemical Education. $3; single numbers 50c. m Journal of Chemical Education, 20th and Northampton Sts, Easton, Pa. (1v:Ja v19;i-s)

J Chem Phys—Journal of Chemical Physics. $10. m American Institute of Physics, 175 Fifth Av, New York (1v:Ja v10;i-s)

J Eng Educ—Journal of Engineering Education. $3; single numbers 50c. m except (Jl and Ag) Society for the Promotion of Engineering Education, F. L. Bishop, Ed, University of Pittsburgh, Pittsburgh, Pa. (1v:S v33;i-s)

J Fr Inst—See Franklin Inst J

J Ind & Eng Chem—See Ind & Eng Chem

J Ind Hygiene—The Journal of Industrial Hygiene and Toxicology. $6; single numbers 75c. m (except Jl and Ag) Williams & Wilkins Co, Mt Royal & Guilford Avs, Baltimore, Md. (1v:Ja v24;i-s)

J Land & Pub Util Econ—Journal of Land and Public Utility Economics. $5; single numbers $1.50. q University of Wisconsin, Madison, Wis. (1v:F v18;i-s)

J Phys Chem—The Journal of Physical Chemistry. $10; single numbers $1.50. m (except Jl, Ag, S) Williams & Wilkins Co, Mt Royal & Guilford Avs, Baltimore, Md. (1v:Ja v46;i-s)

J Research Nat Bur Stand—Journal of Research of the National Bureau of Standards. $3.50; single numbers 30c. m Superintendent of Documents, Washington, D. C. (2v:Ja,Jl v28-29;i-l)

J Retailing—Journal of Retailing. $1; single numbers 25c. q New York University School of Retailing, 100 Washington Square, New York (1v:F v18;i-r)

Index published every two years

Light & Lighting—Light and Lighting. 10s 6d; single numbers 9d. m Light and Lighting, 32 Victoria St, London, S.W.1 (1v:Ja v35;i-l)

Locomotive—Locomotive. 50c; single numbers gratis; recent bound volumes $1. q Hartford Steam Boiler Inspection & Insurance Co, 56 Prospect St, Hartford, Conn. (1v:Ja v44;i-r)

Mach—Machinery. $4; single numbers 40c. m Industrial Press, 148 Lafayette St, New York (1v:S v49;i-r)

Machine Design—Machine Design. $6; single numbers 50c. m Penton Pub. Co, Penton Bldg, Cleveland, O. (1v:Ja v14;i-r)

Mag of Wall St—Magazine of Wall Street and Business Analyst. $10; single numbers 50c. bi-w Ticker Pub. Co, Inc, 90 Broad St, New York (2v:Ap,O v70-71;i-s)

Extra number, Manual of Magazine of Wall Street published in April

Management R—Management Review. $5; single numbers 50c. m American Management Association, 330 W 42d St, New York (1v:Ja v31;i-l)

Formerly American Management Review

Manuf Rec—Manufacturers Record. $2; single numbers 25c. m Manufacturers Record Publishing Co, Candler Building, Baltimore, Md. (1v:Ja v111;i-none)

Marine Eng—Marine Engineering and Shipping Review. $3; single numbers 35c. m Simmons-Boardman Pub. Corp, 30 Church St, New York (1v:Ja v47;i-r)

Mass Transportation—Mass Transportation. $1.50; single numbers 25c. m Kenfield-Davis Pub. Co, 431 S. Dearborn St, Chicago (1v:Ja v38;i-s)

Mech Eng—Mechanical Engineering. $6; single numbers 75c. m American Society of Mechanical Engineers, 29 W 39th St, New York (1v:Ja v64;i-r)

Mech Handling—Mechanical Handling and Conveying. 12s; single numbers 1s. m Louis Cassier Co, Ltd, 22, Henrietta St, Covent Garden, London, W.C. 2 (1v:Ja v29;i-l)

Metal Finishing—Metal Finishing. $2; single numbers 25c. m Metal Industry Pub. Co. Inc, 11 W 42d St, New York (1v:Ja v40;i-s)

Formerly Metal Industry

Metal Prog—Metal Progress. $5; single numbers $1. m American Society for Metals, 7301 Euclid Av, Cleveland, O. (2v:Ja,Jl v41-42;i-s)

Metallurgist. See Engineer

Metals & Alloys—Metals and Alloys. $2; single numbers 25c. m Reinhold Pub. Corp, 330 W 42d St, New York (2v:Ja,Jl v15-16;i-l)

Min & Met—Mining and Metallurgy. $3; single numbers 50c. m American Institute of Mining and Metallurgical Engineers, Inc, 29 W 39th St, New York (1v:Ja v23;i-l)

Min Cong J—Mining Congress Journal. $2; single numbers 20c. m American Mining Congress, 309 Munsey Bldg, Washington, D.C. (1v:Ja v28;i-r)

Mo U Sch Mines & Met Bul tech ser—Bulletin of the University of Missouri, School of Mines and Metallurgy. Technical Series. irr Univ. of Mo, Rolla

Mod Packaging—Modern Packaging. $5; single numbers 50c. m Breskin Pub. Corp, 122 E 42d St, New York (1v:S v16;i-l)

Indexing began September 1940, v 14 no 1

Mod Plastics—Modern Plastics. $5; single numbers 50c. m Breskin Pub. Corp, 122 E 42d St, New York (1v:S v20;i-l)

Formerly Plastic Products

Monthly Labor R—Monthly Labor Review. $3.50; single numbers 30c. m Superintendent of Documents, Washington, D.C. (2v:Ja,Jl v54-55;i-l)

Free to labor departments and bureaus and other offices connected with the administration of labor laws

N A C A Bul—N.A.C.A. Bulletin. s-m National Association of Cost Accountants, 385 Madison Av, New York (1v:S v24;i-r)

Distributed regularly only to members of the Association

N E Water Works Assn J—Journal of the New England Water Works Association. $4; single numbers $1.25. q New England Water Works Association, 613 Statler Bldg, Boston (1v:Mr v56;i-s)

Nat City Bank—National City Bank of New York. m 55 Wall St, New York (without v no; i-none)

Nat Pet N—National Petroleum News. $5; single numbers 20c. w National Petroleum Pub. Co, 1213 W 3d St, Cleveland, O. (1v:Ja v34;i-none)

Monthly technical section beginning July 29, 1942, published separately as pt 2 of the regular issue with subtitle Refinery Management and Petroleum Chemical Technology. Included in subscription to Nat Pet N

Nat Research Council Bul—National Research Council Bulletin. irr National Research Council, Publication office, Washington, D.C.

Individual numbers variously priced. Price-list sent on request

Nat Safety N—National Safety News. $4; single numbers 40c. m National Safety Council, Inc, 20 N Wacker Drive, Chicago (2v:Ja,Jl v45-46;i-r)

Nat Underw—National Underwriter. $4; single numbers 20c. w National Underwriter Co, 175 W Jackson Blvd, Chicago (1v:Ja v46;i-none)

Nat Underw (Life ed)—National Underwriter Life Insurance Edition. $3.50; single numbers 20c. w National Underwriter Co, 175 W Jackson Blvd, Chicago (1v:Ja v46;i-none)

New England Water Works Assn. See N E Water Works Assn J

N Y Pub Lib Bul—New York Public Library. Bulletin. $1; single numbers 10c. m New York Public Library, 5th Av & 42d St, New York (1v:Ja v46;i-s)

Bibliographies of interest to special libraries are indexed

News Ed—News Edition (American Chemical Society). $2; single numbers 15c. s-m American Chemical Society, Mills Bldg, 1709 G St, N.W, Washington, D.C. (1v:Ja v19;i-s)

Name changed to Chemical and Engineering News, January 10, 1942

Oil & Gas J—Oil and Gas Journal. $6; single numbers 20c. w Petroleum Pub. Co, 211 South Cheyenne Av, Tulsa, Oklahoma (1v:My v41; i-s)

Oil Paint & Drug Rep—Oil, Paint and Drug Reporter. $5; single numbers 15c. w Schnell Pub. Co, Inc, 59 John St, New York (2v:Ja,Jl v141-142;i-r)

Opt Soc Am J—Journal of the Optical Society of America. $7; single numbers 70c. m American Institute of Physics, Inc, 175 Fifth Av, New York (1v:Ja v32;i-s)

Paint Oil & Chem R—Paint, Oil and Chemical Review. $2; single numbers 15c. bi-w Trade Review Co, 537 S Dearborn St, Chicago (1v:Ja v104;i-none)

Paper Ind—Paper Industry and Paper World. $2. m Fritz Publications, Inc, 59 E. Van Buren St, Chicago (1v:Ap v24;i-l)

Paper Tr J—Paper Trade Journal. $4; single numbers 10c. w Lockwood Trade Journal Co, Inc, 15 W 47th St, New York (2v:Ja,Jl v114-115;i-s)

Personnel J—Personnel Journal. $5; single numbers 75c. m (except Jl and Ag) Personnel Research Federation, 60 E 42d St, New York (1v:My v21;i-s)

Pet Eng—Petroleum Engineer. $2; single numbers 25c. m (Ag-Je) s-m (Jl) Petroleum Engineer Pub. Co, Allen Bldg, Dallas, Texas 1v:O v14;i-l)

Indexing began October 1940, v 12 no 1

Extra number [Annual no] Published in July

Photo Tech—Photo Technique. $5; single numbers 50c. m McGraw-Hill, Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v3;i-s)

Combined with American Photography, January, 1942

Phys R—The Physical Review. Second Series. $15; single numbers $1.50. m American Institute of Physics, Inc, 175 Fifth Av, New York (2v:Ja,Jl v61-62;i-s)

Published monthly instead of semi-monthly, temporarily, beginning January, 1942

Power—Power. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v86;i-r)

Extra number published in Mid-December

Power Pl Eng—Power Plant Engineering. $2; single numbers 25c. m Technical Pub. Co, 53 West Jackson Blvd, Chicago (1v:Ja v46;i-s)

Product Eng—Product Engineering. $5; single numbers 50c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v13;i-s)

Ptr Ink—Printers' Ink. $4; single numbers 20c. w Printers' Ink Pub. Co, Inc, 205 E 42d St, New York (4v:Ja,Ap,Jl,O v198-201;i-none)

Ptr Ink Mo—Printers' Ink Monthly. $2; single numbers 25c. m Printers' Ink Pub. Co, Inc, 185 Madison Av, New York (2v:Ja,Jl v42-43; i-none)

Combined with Printers' Ink, January 2, 1942

Pub Health Rep—Public Health Reports. $2.50; single numbers 5c. w Superintendent of Documents, Washington, D.C. (1v:Ja v57;i-l)

Distributed gratuitously to state and municipal health officers, etc., by the Surgeon general of the United States public health service, Washington, D.C.

Pub Roads—Public Roads. $1; single numbers 10c. m Superintendent of Documents, Washington, D.C. (1v:Mr v23;i-r)

Changed to a quarterly, beginning July, 1942

Pub Util—Public Utilities Fortnightly. $15; single numbers 75c. bi-w Public Utilities Reports, Inc, Munsey Bldg, Washington, D.C. (2v:Ja,Jl v29-30;i-s)

Pub Works—Public Works. $3; single numbers 35c. m Public Works Journal Corp, 310 E 45th St, New York (1v:Ja v73;i-r)

Pulp & Pa of Can—Pulp and Paper Magazine of Canada. $5; single numbers 50c. m National Business Publications, Ltd, Gardenvale, Que. (1v:Ja v43;i-s)

Extra convention number published in February

RCA R—RCA Review. $2; single numbers 75c. q RCA Institutes Technical Press, 75 Varick St, New York (1v:Jl v7;i-s)

Indexing began July 1940, v 5 no 1

Suspended publication, April 1942, for duration of the war

R Econ Statis—Review of Economic Statistics. $5. q Harvard University Press, Cambridge, Mass. (1v:F v24;i-s)

R Sci Instr—Review of Scientific Instruments. $5; single numbers 50c. m American Institute of Physics, 175 Fifth Av, New York (1v:Ja v13;i-s)

$3 to members of Scientific Societies

Radio N—Radio News. $3; single numbers 25c. m Ziff-Davis Pub. Co, 540 N. Michigan Av, Chicago (2v:Ja,Jl v27-28;i-none)

Rayon—Rayon Textile Monthly. $5; single numbers 60c. m Rayon Pub. Corp, 303 Fifth Av, New York (1v:Ja v23;i-s)

Formerly Rayon and Melliand Textile Monthly

Ref Shelf—The Reference Shelf. irr The H. W. Wilson Co, 958 University Av, New York

Refrig Eng—Refrigerating Engineering. $3; single numbers 35c. m American Society of Refrigerating Engineers, 50 W 40th St, New York (2v:Ja,Jl v43-44;i-s)

Review of Economic Statistics. See R Econ Statis

Roads & Bridges—Roads and Bridges. $2; $2.50 in U.S; single numbers 25c; 30c in U.S. m Monetary Times Printing Co. of Canada, Ltd, 341 Church St, Toronto, Ont. 2 (1v:Ja v80;i-none)

Formerly Canadian Engineer: Roads and Bridges

June 1942 [no 6] number not published

Roads & Sts—Roads and Streets. $3. m Gillette Pub. Co, 330 So. Wells St, Chicago (1v:Ja v85;i-r)

Rock Prod—Rock Products. $2; single numbers 25c. m Tradepress Pub. Corp, 309 W Jackson Blvd, Chicago (1v:Ja v45;i-none)

Roy Aeronautical Soc J—Journal of the Royal Aeronautical Society. £3 3s; single numbers 5s 3d. m Royal Aeronautical Society, 4 Hamilton Place, Piccadilly, London, W. 1 (1v:Ja v46;i-s)

Rs Mod Phys—Reviews of Modern Physics. $4; single numbers $1.20. q American Institute of Physics, Inc, 175 Fifth Av, New York (1v:Ja v14;i-none)

Price of April-July issue, double issue, $2.40

Rubber Age—Rubber Age. $3; single numbers 35c. m Palmerton Pub. Co, Inc, 250 W 57th St, New York (2v:Ap,O v51-52;i-s)

Ry Age—Railway Age. $6; single numbers 25c. w Simmons-Boardman Pub. Corp, 30 Church St, New York (2v:Ja,Jl v112-113;i-r)

Price of May 23d issue $1

Ry Mech Eng—Railway Mechanical Engineer. $3; single numbers 35c. m Simmons-Boardman Pub. Corp, 30 Church St, New York (1v:Ja v116;i-r)

S A E J—S.A.E. Journal. $10; single numbers $1. m Society of Automotive Engineers, Inc, 29 W 39th St, New York (1v:Ja v50;i-l)

Safety Eng—Safety Engineering. $3; single numbers 25c. m Safety Engineering, 75 Fulton St, New York (2v:Ja,Jl v83-84;i-s)

Sales Management—Sales Management. $4; single numbers 20c. s-m Sales Management, Inc, 386 4th Av, New York (2v:Ja,Jl v50-51; i-none)

Published semi-monthly except in April and October when it is published three times a month

Sci Am—Scientific American. $4; single numbers 35c. m Munn & Co, Inc, 24 W 40th St, New York (2v:Ja,Jl v166-167;i-s)

Science—Science. $6; single numbers 15c. w Science Press, Lancaster, Pa. (2v:Ja,Jl v95-96;i-s)

Sheet Metal Worker—Sheet Metal Worker. $2; single numbers 25c. m Edwin A. Scott Pub. Co, 45 W 45th St, New York (1v:Ja v33;i-s)

Soap & San Chem—Soap and Sanitary Chemicals. $3. m MacNair-Dorland Co, Inc, 254 W 31st St, New York (1v:Ja v18)
Annual index appears in Soap Blue Book which is sent to all subscribers

Soc Chem Ind J—Journal of the Society of Chemical Industry. £1 15s; single numbers 3s. m Society of Chemical Industry, Clifton House, Euston Road, London, N.W.1 (1v:Ja v61;i-r)
Formerly two separately paged sections; Transactions and British Chemical Abstracts
British Chemical and Physiological Abstracts published separate beginning January 1941. Subscription to Journal, Chemistry & Industry, and Abstracts £5

Soc Dyers & Col J—Journal of the Society of Dyers and Colourists. 60s; single numbers 5s. m Society of Dyers and Colourists, Ocean Chambers, 32-34 Piccadilly, Bradford, Yorkshire, England (1v:Ja v58;i-l)

Soc for Advan of Management J. See Advanced Management

Soc Motion Picture Eng J—Journal of Society of Motion Picture Engineers. $8; single numbers $1. m Society of Motion Picture Engineers, Hotel Pennsylvania, New York (2v;Ja,Jl v38-39;i-s)

Special Lib—Special Libraries. $5; single numbers 50c. m (S-Ap) bi-m (My-Ag) Special Libraries Association, 31 E 10th St, New York (1v:Ja v33;i-l)

Spectator (Life ed)—Spectator; Life Insurance in Action. $5; single numbers 50c m (s-m during D) Chilton Co, Inc, Chestnut & 56th Sts, Philadelphia (2v:Ja,Jl v148-149;i-s)
Changed from bi-weekly to monthly, beginning July, 1942

Spectator (Property ed)—Spectator; Property Insurance Review. $2; single numbers 25c. bi-w Chilton Co, Inc, Chestnut & 56th Sts. Philadelphia (1v:Jl v8;i-s)

Stahl & Eisen—Stahl und Eisen. RM 40; single numbers RM 1.50 w Verlag Stahleisen, m.b.H, Düsseldorf, Germany
No numbers received after June 5, 1941.

Steel—Steel. $6; single numbers 25c. w Penton Pub. Co, Penton Bldg, Cleveland, O. (2v:Ja,Jl v110-111;i-r)

Survey of Cur Business—Survey of Current Business. U. S. Bureau of Foreign and Domestic Commerce, Division of Business Review. $2; single numbers 15c. m Superintendent of Documents, Washington, D.C. (1v:Ja v22;i-none)
Advance leaflets [5c] are distributed every week to subscribers in the United States. The leaflets are usually mailed on Thursdays and give such information as has been received during the preceding week

Tech R—Technology Review. $3.50; single numbers 50c, m except (Ag, S, O) Massachusetts Institute of Technology, room 3-219, Cambridge, Mass. (1v:N v45;i-r)
Indexing began November 1940, v 43 no 1

Textile Col—Textile Colorist. $5. m Textile Colorist, Inc, 233 Broadway, New York (1v:Ja v64;i-s)

Textile Inst J—Journal of the Textile Institute. 48s; single numbers 4s. m Textile Institute, 16 St Mary's Parsonage, Manchester 3, England (1v:Ja v33;i-l)

Textile World—Textile World. $1.50; single numbers 25c. m McGraw-Hill Pub. Co, Inc, Bragdon, Lord & Nagle Division, 330 W 42d St, New York (1v:Ja v92)
Annual index appears in Textile World yearbook and catalog

Transit J—Transit Journal. $3; single numbers 35c. m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York (1v:Ja v86;i-s)
Formerly Electric Railway Journal
Discontinued publication, December, 1942

Trust Companies. See Trusts & Estates

Trusts & Estates—Trusts and Estates, The Journal of Capital Management. $5; single numbers 60c. m Fiduciary Publishers, Inc, 50 E 42d St, New York (2v:Ja,Jl v74-75;i-s)
Formerly Trust Companies

U S Agric—Publications. U.S. Dept. of Agriculture. Division of Publications, Washington, D.C
Selected contributions from the Bureau of Chemistry, Forest Service and Public Roads Bureau and other publications on technical subjects are indexed

U S Bur For & Dom Com Domestic Commerce
• **Ser**—U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.

U S Bur For & Dom Com Trade Information
• **Bul**—U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.

U S Bur For & Dom Com Trade Promotion
• **Ser**—U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.

U S Bur Labor Statistics Bul—United States. Bureau of Labor Statistics. Bulletin. Distributed free of charge. U.S. Bureau of Labor Statistics, Washington, D.C.

U S Bur Mines Bul—United States. Bureau of
† Mines. Bulletin. U.S. Bureau of Mines, Washington, D.C.

U S Bur Mines Information Circ—United States.
† Bureau of Mines. Information Circular. U.S. Bureau of Mines, Washington, D.C.

U S Bur Mines Rep of Invest—United States.
† Bureau of Mines. Reports of Investigations. U.S. Bureau of Mines, Washington, D.C.

U S Bur Mines Tech Pa—United States. Bu-
† reau of mines. Technical Paper. U.S. Bureau of Mines, Washington, D.C.

U S Geol S Bul—United States Geological Survey. Bulletin. U.S. Geological Survey, Washington, D.C.

U S Geol S Professional Pa—United States Geological Survey. Professional Paper. U.S. Geological Survey, Washington, D.C.

U S Nat Advisory Com for Aeronautics—United States National Advisory Committee for Aeronautics, Washington, D.C. Annual reports.
1941 report not available for indexing. Will be indexed later

U S Nat Bur Stand—United States National
‡ Bureau of Standards. Circular. U.S. National Bureau of Standards, Washington, D.C.

U S Women's Bur Bul—United States. Women's Bureau. Bulletin. U.S. Women's Bureau, Washington, D.C.

V D I—Zeitschrift des Vereines Deutscher Ingenieure. RM 36; single numbers RM 1.75 w VDI-Verlag G. m. b. H. Dorotheenstr. 40, Berlin NW 7, Germany (1v:Ja v85;i-none)
Indexed thru May 31, 1941

W Soc E J—Journal of the Western Society of Engineers. $3; single numbers 75c. bi-m Western Society of Engineers, 205 W Wacker Drive, Chicago (1v:F v47;i-s)

Water & Sewage—Water and Sewage. $2; $2.50 in U.S; single numbers 25c; 30c in U.S. m Monetary Times Printing Co. of Canada, Ltd, 341 Church St, Toronto, Ont. 2 (1v:Ja v80;i-none)
Formerly Canadian Engineer: Water and Sewage

Water Works & Sewerage—Water Works & Sewerage. $2; single numbers 25c. m Gillette Pub. Co, 330 So. Wells St, Chicago (1v:Ja v89; i-s)

Weekly Underw—Weekly Underwriter. $5; single numbers 25c. w Underwriter Printing and Publishing Co, 116 John St, New York (2v:Ja,Jl v146-147;i-l)

Welding J—Welding Journal. $5; single numbers 75c. October and December numbers $1 ea. m American Welding Society, 33 W 39th St, New York (1v:Ja v21;i-s)

Western Soc of Eng J. See W Soc E J

Wireless Eng—Wireless Engineer. 32s; single numbers 2s 6d. m Iliffe & Sons, Ltd, Dorset House, Stamford St, London, S.E. 1 (1v:Ja v19;i-l;cost 2s 6d)

Formerly Experimental Wireless and The Wireless Engineer

Zeit Ver Deutsch Ing—See V D I

* The free distribution of publications of the Bureau of Foreign and Domestic Commerce is confined almost entirely to government officers, educational institutions, libraries, the press, and commercial organizations. Others may purchase them from the Superintendent of Documents, Government Printing Office, Washington, D.C.

† United States Bureau of Mines Publications for sale by Superintendent of Documents, Government Printing Office, Washington, D.C. Reports of Investigations and Information Circulars distributed by Bureau.

‡ The official (free) distribution of publications of the Bureau is limited to government offices, public libraries, educational institutions, scientific societies, and cooperating experts. Others may purchase them from the Superintendent of Documents, Government Printing Office, Washington, D.C.

Key to General Abbreviations

+	continued on later pages of the issue	Je	June
		Jl	July
abr	abridged	Mr	March
Ag	August	My	May
Ap	April	n s	new series
arch	architect	N	November
bibliog	bibliography	no	number
comp	compiled or compiler	O	October
cond	condensed	p	page
cont	continued	pl	plate
D	December	por	portrait
diag	diagram	pseud	pseudonym
ed	edited or edition or editor	pt	part
		rev	revised
F	February	S	September
i	index	sup	supplement
il	illustrations	tr	translated or translation or translator
inc	incorporated		
Ja	January	v	volume

Sample entry: Budgeting to cut unit costs; Talon, incorporated. P. K. Poulton and P. H. Goldsmith. Factory Management 97:48-52+ O '39

Explanation: An article with the title given above will be found in Factory Management, volume 97, pages 48 to 52 (continued on later pages of the same issue) the October 1939 number.

Abbreviations of Publishers' Names Used in Book Titles

A.I.M.E. American Institute of Mining and Metallurgical Engineers, 29 W 39th St, N.Y.
Am. Acad. of Pol. and Soc. Sci. American Academy of Political and Social Science, 3457 Walnut St, Philadelphia
Am. Book Co. American Book Company, 88 Lexington Av, N.Y.
Appleton-Century. D. Appleton-Century Co, Inc, 35 W 32d St, N.Y.

Baird. H. C. Baird & Co, 17 W 45th St, N.Y.
Blakiston. The Blakiston Company, 1012 Walnut St, Philadelphia
Blue Ribbon Books, Inc, Garden City, N.Y.
Bobbs. Bobbs-Merrill Co, 724 N Meridian St, Indianapolis; 468 4th Av, N.Y.
Bruce Pub. Bruce Publishing Company, 524-544 N Milwaukee St, Milwaukee, Wis; 330 W 42d St, N.Y.

Callaghan. Callaghan & Co, 401 E Ohio St, Chicago
Carnegie Endowment. Carnegie Endowment for International Peace, 700 Jackson Pl, NW, Washington, D.C.
Carswell Co, Ltd, 145-149 Adelaide St, W, Toronto, 2
Century Co. See Appleton-Century
Chemical Catalog Co. See Reinhold Pub. Corp.
Chemical Pub. Co, 234 King St, Brooklyn, N.Y.
Columbia Univ. Press, 2960 Broadway, N.Y. American Agents for the Publications of the League of Nations
Commerce Clearing House. Commerce Clearing House, Inc, Loose Leaf Service Division of The Corporation Trust Company, 214 N. Michigan Av, Chicago; 350 5th Av, N.Y.
Covici. Covici Friede, Inc, 435 E 24th St, N.Y.
Crofts. F. S. Crofts & Co, 101 5th Av, N.Y.
Crowell. T. Y. Crowell Company, 432 4th Av, N.Y.

Davis. F. A. Davis Company, 1914-1916 Cherry St, Philadelphia
Day. John Day Co, Inc, 2 W 45th St, N.Y. Publications handled and sold by Reynal & Hitchcock, Inc, 386 4th Av, N.Y.
Dodd. Dodd, Mead & Co, 432 4th Av, N.Y.
Doubleday. Doubleday, Doran & Co, Garden City, N.Y.
Drake. Frederick J. Drake & Co, 600 W Van Buren St, Chicago
Dutton. E. P. Dutton & Co, 286-302 4th Av, N.Y.

Engineers Book Shop, 168 E 46th St, New York

Farrar. Farrar & Rinehart, Inc, 232 Madison Av, N.Y.

Ginn. Ginn & Co, (Educational text-bks.) Statler bldg, Park Sq, Boston; 2301-2311 Prairie Av, Chicago; 70 5th Av, N.Y.
Gregg. Gregg Publishing Company, 270 Madison Av, N.Y; 6 N Michigan Av, Chicago

Harcourt. Harcourt, Brace & Co, 383 Madison Av, N.Y.
Harper. Harper & Brothers, 49 E 33d St, N.Y.
Harvard Univ. Press, Pub. Dept, 38 Quincy St, Cambridge, Mass.
Heath. D. C. Heath & Co, 285 Columbus Av, Boston; 180 Varick St, N.Y; 1815 Prairie Av, Chicago
Henley. Norman W. Henley Pub. Co, 17-19 W 45th St, N.Y.
Holt. Henry Holt & Co, 257 4th Av, N.Y; 2626 Prairie Av, Chicago
Houghton. Houghton, Mifflin Co, 2 Park St, Boston; 432 4th Av, N.Y; 2500 Prairie Av, Chicago; 500 Howard St, San Francisco

Int. Labor Office. International Labor Office, 734 Jackson Pl, NW, Washington, D.C.

Knopf. Alfred A. Knopf, 501 Madison Av, N.Y.

Lippincott. J. B. Lippincott Co, 227-231 S 6th St, Philadelphia
Little. Little, Brown & Co, 34 Beacon St, Boston
Liveright. Liveright Pub. Corp, 386 4th Av, N.Y.
Longmans. Longmans, Green & Co, 55 5th Av, N.Y.

McGraw-Hill. McGraw-Hill Bk. Co, Inc, 330 W 42d St, N.Y.
Macmillan. The Macmillan Co, 60 5th Av, N.Y.
Manual Arts Press, 237 N Monroe St, Peoria, Ill.
Morrow. William Morrow & Co, Inc, 386 4th Av, N.Y.

Nat. Bur. Econ. Research. National Bureau of Economic Research, Inc, 1819 Broadway, N.Y.
Nat. Ind. Conf. Bd. National Industrial Conference Board, Inc, 247 Park Av, N.Y.
National Research Council, 2101 Constitution Av, NW, Washington, D.C.
Nelson. Thomas Nelson & Sons, 385 Madison Av, N.Y.
Norton. W. W. Norton & Company, Inc, 70 5th Av, N.Y.

Oxford. Oxford University Press, 114 5th Av, N.Y.; 480-486 University Av, Toronto, 2; (Clarendon Press, and Humphrey Milford Imprints), Amen House, Warwick Sq, London, E.C. 4

Penton Pub. Co, 1213 W 3d St, Cleveland, O; 110 E. 42d St, N.Y.
Pitman. Pitman Pub. Corp, 2-6 W 45th St, N.Y.
Prentice-Hall, Inc, 70 5th Av, N.Y.
Princeton Univ. Press, Princeton, N.J.
Putnam. G. P. Putnam's Sons, Putnam Bldg, 2-6 W 45th St, N.Y.

Reinhold Pub. Corp, 330 W 42d St, N.Y.
Revell. Fleming H. Revell Co, 158 5th Av, N.Y.
Ronald Press. Ronald Press Co, 15 E 26th St, N.Y.
Routledge. George Routledge & Sons, Ltd, Broadway House, 68-74 Carter Lane, London, E.C. 4
Ryerson Press, 299 Queen St, W, Toronto, 2

Saunders. W. B. Saunders Co, 218 West Washington Sq, Philadelphia
Scientific Bk. Corp, 15 E 26th St, N.Y.
Scribner. Charles Scribner's Sons, 597 5th Av, N.Y; 320 E 21st St, Chicago
Simmons-Boardman. Simmons-Boardman Publishing Corporation, 30 Church St, N.Y.
Simon & Schuster, Inc, 1230 6th Av, Rockefeller Center, N.Y.
South-Western Pub. Co. Inc, 201 W 4th St, Cincinnati; 354 4th Av, N.Y.
Special Lib. Assn. Special Libraries Association, 31 E 10th St, N.Y.
Spon. E. & F. N. Spon, Ltd, 57 Haymarket, London, S.W. 1
Stanford Univ. Press, Stanford University, Calif.
Stokes. F. A. Stokes Co, 227-231 S 6th St, Philadelphia
Supt. of Doc. Superintendent of Documents, Government Printing Office, Washington, D.C.

Teachers College, Columbia University, 525 W 120th St, N.Y.

Univ. of Chicago Press, 5750 Ellis Av, Chicago

Van Nostrand. D. Van Nostrand Co, 250 4th Av, N.Y.
Viking Press, Inc, 18 E 48th St, N.Y.

West. West Pub. Co, 50 W Kellogg Blvd, St Paul, Minn.; 268 Flatbush Extension av, Brooklyn, N.Y.
Wiley. John Wiley & Sons, Inc, 440 4th Av, N.Y.
Williams & Wilkins. The Williams & Wilkins Co, Mt Royal & Guilford Avs, Baltimore
Wilson, H.W. H. W. Wilson Co, 950-972 University Av, N.Y.
Wood. William Wood & Company (Division of the Williams & Wilkins Co) Mt Royal & Guilford Avs, Baltimore
Workers Educ. Bur. Workers Educational Bureau of America, 1440 Broadway, N.Y.
World Peace Foundation, 40 Mt Vernon St, Boston

Yale Univ. Press, 143 Elm St, New Haven, Conn; 386 4th Av, N.Y.

Industrial Arts Index

A Cumulative Index to Engineering, Trade and Business Periodicals

1942

A. & P. See Great Atlantic and Pacific tea company

A.P.W. paper company
A.P.W. paper co. answers Federal trade commission complaint charging improper use of Red Cross name and emblem. Paper Tr J 114:22 Je 4 '42

ABBOTT, Henry W. 1891-1942
Sketch. por East Underw 43:3+ Ap 3 '42

ABBOTT, William Lamont, 1861-
Washington award for 1942. L. R. Howson. W Soc E J 47:3-8 F '42
Washington award to W. L. Abbott. por(cover) Elec W News ed 117:904-5 Mr 14 '42

ABBOTT laboratories
Abbott laboratories' medical research. Barron's 22:19 S 21 '42
Cottoning machines; automatic machines for placing cotton in bottles of tablets and capsules. il Mod Packaging 16:76-7 N '42
Preferred stock offered. Comm & Fin Chr 154:1488 D 13 '41

ABBREVIATIONS
Standard abbreviations; time and space saving lists of engineering terms for use in drawings and specifications. Dom Eng 160:45+ Ag '42

ABIETIC acid
Extraction of fatty acids from rosin acid; fatty acid mixtures by means of liquid propane. A. W. Hixson and A. N. Hixson. bibliog il diags Am Inst Chem Eng Trans 37:927-54; Discussion. 954-7 D '41
Hercules rosin esters. F. J. Van Antwerpen. il News Ed 19:1255-6, 1258 N 25 '41

ABILITY
See also
Success

ABILITY tests
Application of the median-ratio technique to two non-clerical speed tests. S. P. Horton. 34p pa $1 Human engineering laboratory, 347 Beacon st, Boston '42
Choosing the man for the job. C. D. Moore. il Comp Air M 47:6848 S '42
Do your tests pick good workers? R. S. Solomon. Personnel J 20:177-83 N '41
Engineering aptitudes; their definition, measurement, and use. C. V. Mann. bibliog diags J Eng Educ 32:673-86 Ap '42
Fitting workers to jobs. C. L. Shartle. Personnel J 20:328-32 Mr '42
Forecasting job efficiency. H. E. Garrett. Personnel J 20:276-8 F '42
How one firm selects college graduates; abstract. A. P. Johnson. Management R 30:408-9 N '41
Job tests. C. A. Drake. Personnel J 20:184-9 N '41
Lockheed's full testing program. R. R. Irwin. Personnel J 21:103-6 S '42
New primer on testing for employe selection. East Underw 43:12 S 4 '42
Observation and testing. A. W. Smith. Personnel J 21:175-9 N '42
Personnel selection by standard job tests. C. A. Drake. 147p $2 McGraw-Hill '42
Psychology aids in selecting war workers; Westinghouse electric and manufacturing company. C. D. Moore. Marine Eng 47:146+ Je '42
Retail experience with employee testing. Management R 31:235-6 Jl '42
Revision of the Stanford-Binet scale; an analysis of the standardization data. Q. McNemar. 185p $3 Houghton '42
Scientific approach in selecting the right man for the job. M. S. Viteles. Edison Elec Inst Bul 10:264-8 Jl '42
Selecting employees for advancement. L. B. Drury. Personnel J 20:166-71 N '41
Selection of subordinate personnel. H. C. Taylor. Mech Eng 63:807-10 N '41; Discussion. G. K. Bennett. 64:396-7 My '42
Studies in engineering education II. A. P. Johnson. 22p pa 35c Director of the Division of educational reference, Purdue univ, Lafayette, Ind. '42
Studies on the reliability of tests. R. W. B. Jackson and G. A. Ferguson. 132p bibliog (p126-32) pa $1 Dept. of educational research, Univ. of Toronto, 371 Bloor st, W, Toronto, 5 '41
Supervision; selection. H. Moore. Personnel J 20:353-6 Ap '42
Testing to improve job performance; Carnegie-Illinois; abstract. E. B. Mapel. Management R 31:271-2 Ag '42
Tests and measurements in health and physical education. C. H. McCloy. 2d ed 412p bibliog(p326-45) $3 Crofts '42
Tests for personnel selection; R. G. LeTourneau co. G. B. Arthur, jr. il Am Mach 86:101-4 F 19 '42
Too many aptitude woman. J. O'Connor. 191p bibliog(p186-91) $2 Human engineering laboratory, Boston '41
University of Minnesota studies in predicting scholastic achievement. 2v 65p; 75p Univ. of Minnesota press, Minneapolis '42
Use of aptitude tests widens as nation's manpower problems multiply. E. M. Kelley. Sales Management 51:44+ N 1 '42
Vocational aspiration levels of adults. H. A. Wren. 150p bibliog(p129-31) $1.85 Teachers college '42
Vocational interests of high school girls; as inventoried by the Strong and Manson blanks. G. E. Laleger. 102p bibliog(p94-6) $1.60 Teachers college '42
West Coast Life finds aptitude tests cut agent turnover. W. L. Hardy. Sales Management 50:60+ F 1 '42
Written tests aid worker evaluation; Lycoming division of the Aviation corporation. il Am Mach 86:1165-7 O 15 '42
See also
Factor analysis
Personality tests

ABITIBI power and paper company
Abitibi bond interest now $66 millions. Paper Tr J 114:8 Mr 19 '42
Battle for control of Abitibi continues. Paper Tr J 114:10+ Ap 2 '42

ABITIBI power and paper company—*Continued*
- Court grants leave to appeal Abitibi sale. Paper Tr J 114:18 Ja 15 '42
- Earnings, 1938-1941. Comm & Fin Chr 155: 2450 Je 29 '42
- Enigma of Abitibi. G. Agassiz. Pulp & Pa of Can 43:495-500, 535-8 Je '42
- Legal battle for sale of Abitibi renewed. Paper Tr J 114:10 F 12 '42
- Sale of Abitibi co. opposed by minority. Paper Tr J 114:12 Ap 23 '42
- Stock exchange ruling. Comm & Fin Chr 155: 1500 Ap 13 '42

ABITIBI pulp and paper company, limited
- May sell Abitibi co. without reserve bid; court grants application of Montreal trust co. Paper Tr J 113:12 D 11 '41

ABORN, Robert Hollenbeck, 1897-
- Recipient of the Lincoln gold medal. por Power 85:997c Mid-D '41

ABRASION
- ASTM test: mar resistance of plastics. diags Mod Plastics 20:84-5+ S '42
- Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

ABRASIVES
- Abrasive cut-off wheels; where and how to use them. F. A. Upper. il Iron Age 150: 48-51 S 10; 68-73 S 17 '42
- Abrasive-disk cutting. A. F. Macconochie. il diags Steel 110:88+ Mr 9 '42
- Abrasive industry plays an important part in the war program; manufacturing processes at the Abrasive co. il Cer Ind 39:66, 68, 70, 72 O '42
- Chilled steel shot and grit. A. S. Park. il Comp Air M 47:6684-8 Mr '42
- Coated abrasives, a tool. E. B. Gallaher. Metal Finishing 40:51-4+ Ja '42
- Cutting-off by abrasive wheels. Engineering 154:26 Jl 10 '42
- Finishing hard rubber products with the Wetordry 3-M method. G. E. Winton. il Rubber Age 50:353-4 F '42
- Grinding wheels; composition of abrasives from electric furnaces. A. G. Arend. il Elec R (Lond) 131:391-2 S 25 '42
- How to use abrasive cutting. H. G. Robinson. il Am Mach 86:275-7 Ap 2 '42
- Modern abrasives. H. C. Cooper. il diags J Chem Educ 19:122-8 Mr '42
- New abrasive stone aids production; Micro-Super-X-bond. Aviation 41:104 Ja '42
- Optically flat surfaces on mass production basis; using stones made with microbond. Automotive Ind 85:46 D 1 '41
- Results from abrasive cutting. H. G. Robinson. il Am Mach 86:332-4 Ap 16 '42
- Special shapes of coated abrasives speed production. il Aero Digest 41:170, 176, 178+ O '42
- Why use abrasive cutting? H. G. Robinson. il Am Mach 86:206-8 Mr 19 '42
- X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research Nat Bur Stand 29:177-81, pl 1-4 Ag '42

See also

Grindstones
Polishing
Pulpstones
Silicon carbide

ABSENTEEISM (labor)
- Absence from work; causes and possible remedies. V. J. Gosden. Elec R (Lond) 130: 591-2 My 8 '42
- Absenteeism and the mine foreman. J. J. Rutledge. Explosives Eng 20:304-5 O '42
- Absenteeism higher in war plants employing women. Steel 111:43 S 7 '42
- Absenteeism in British plants. J. Somerville. Monthly Labor R 53:1164 N '41
- Absenteeism in war industry; Britain's solution. Trusts & Estates 75:341-2 O '42
- Audit your absenteeism. J. F. McMahon. Personnel J 21:158-62 N '42
- Breaking the AWOL habit. W. I. Newman. il Factory Management 100:110-11 O '42
- Combating needless absenteeism. C. B. Coates. il Factory Management 100:92-7 N '42
- Dental services in industry; observations on their effects in the reduction of absenteeism. H. A. Hooper. bibliog Ind Med 11: 157-62 Ap '42
- Diagnosis of absenteeism. D. L. Lynch. Ind Med 11:429 S '42
- Effective way of reducing absences; chart shows effect on production; American screw co. Mach 49:260 N '42
- Firmness and scorn reduce lateness and absenteeism. Am Mach 86:1254m O 29 '42
- Fitness for victory; health programs that reduce absenteeism needed for full-speed war production. W. S. Paine. Nat Safety N 46:34+ Jl '42
- Frequency and duration of disabilities causing absence from work among the employees of a public utility, 1938-41; Boston Edison company. W. M. Gafafer. bibliog Pub Health Rep 57:625-7 Ap 24 '42
- Hours of work and lost time in Great Britain. Monthly Labor R 54:1400-3 Je '42
- Investigations at Mellon institute 1941-42; audit of sick absences. W. M. Gafafer; A. Fletcher. Chem & Eng N 20:457 Ap 10 '42
- Investigations of labor time losses; report of Britain's Industrial health research board. Aero Digest 40:136+ My '42
- Lost work days; British experience as guide on effect of long hours. Business Week p58-60 D 27 '41
- Minimizing absenteeism in war production in Great Britain. Trusts & Estates 74:468-9 My '42
- Production campaign unites employees in war effort; victory pledge, company newspaper, attendance contest used by Corbin screw corporation. J. D. Bates, jr. il Ptr Ink 199: 17-18 My 22 '42
- Progress report on a study of sick absenteeism in industry, Jan.-June, 1941. W. M. Gafafer. Safety Eng 82:35-6 D '41; Same. Concrete (mill sec) 50:188 Je '42
- Sees absenteeism cost heavy this year. V. G. Heiser. Comm & Fin Chr 156:1635 N 5 '42
- Sickness absenteeism. A. T. Court. Ind Med 11:271-5 Je '42
- Surveys of sick absenteeism. Management R 30:423-4 N '41
- War industries fight absenteeism. Iron Age 150:87-9 Jl 9 '42; Abstract. Management R 31:311-12 S '42
- When absenteeism is figured in dollars and cents. A. Fletcher. Concrete (mill sec) 50: 138-9+ Mr '42; Excerpts. Chem & Met Eng 49:146-7 Ja '42

ABSORPTION
- Absorption of hydrogen chloride. F. L. Hunter. il diags Am Inst Chem Eng Trans 37: 741-60 O '41; Abstract. Can Chem & Process Ind 26:79-80+ F '42; Discussion. Am Inst Chem Eng Trans 37:760-2 O '41
- Absorption of liquids by coal; application of radiographic methods to the problem. G. W. Land. bibliog il Ind & Eng Chem 34: 1078-82 S '42
- Absorption theory and design calculations. E. G. Scheibel. bibliog diags Chem & Met Eng 49:102-6 My '42
- Calcium metaphosphate; rate of reaction of phosphorus pentoxide with rock phosphate. G. L. Frear and L. H. Hull. diags Ind & Eng Chem 33:1560-6 D '41
- Elimination of sorption-desorption hysteresis in hydrous oxide systems. H. B. Weiser, W. O. Milligan and J. Holmes. bibliog J Phys Chem 46:586-96 My '42
- General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42
- Increasing recovery of liquefied petroleum gas in natural-gasoline plants. J. W. Wilson. bibliog Oil & Gas J 41:66-8+ My 14 '42; Same. Pet Eng 13:40+ Jl '42; Excerpts. il Nat Pet N 34:R170-2+ My 27 '42
- Practice and equipment for absorption operations. H. R. Duffey. flow diags bibliog diags Chem & Met Eng 49:107-9 My '42

ABSORPTION—*Continued*

Rate of absorption of carbon dioxide in diethanolamine solutions. D. S. Cryder and J. O. Maloney. bibliog diags Am Inst Chem Eng Trans 37:827-52 O '41; Discussion. 38: 247-50 Ap '42

Reversible aggregations of colloidal particles; the isothermal and reversible change of absorption in thixotropic iron oxide sols. W. Heller and G. Quimfe. bibliog diag J Phys Chem 46:765-77 Je '42

Sorption of water vapor by vermiculite and its silica; equilibrium measurements. L. A. Spitze and L. A. Hansen. bibliog Ind & Eng Chem 34:506-8 Ap '42

Water absorption of resins. E. P. Irany. bibliog Ind & Eng Chem 33:1551-4 D '41

See also

Adsorption

ABSORPTION, Dielectric. See Dielectric constants

ABSORPTION apparatus

Additions to gasoline plant diversify output; Arkansas fuel oil company produces blended motor fuel, kerosine, Stoddard solvent, absorption oil, and fuel oil. D. Attaway. il Pet Eng 13:34, 36, 38 D '41

Benzole recovery by the oil washing process. L. Silver and G. U. Hopton. Soc Chem Ind J 61:37-45 Mr '42

Compressor-absorption type gasoline plant produces four products. F. H. Love. il Pet Eng 13:149-50, 152 My '42

Construction and operating features of east Texas cycling plant. F. H. Love. il Pet Eng 13:31-2, 34 Ap '42

Cycling plant converted from refrigeration to absorption process. C. C. Pryor. il Pet Eng 13:50+ Mr '42

Degrees of freedom in multicomponent absorption and rectification columns. E. R. Gilliland and C. E. Reed. bibliog il Ind & Eng Chem 34:551-7 My '42

Design and operation of cycling plant absorption systems. E. T. Neill. il Pet Eng 13: 56+ Ag '42

Flooding velocities in packed towers; comparison of determination by visual and pressure drop methods. B. R. Sarchet. bibliog il diag Am Inst Chem Eng Trans 38: 283-301; Discussion. 301-4 Ap '42

La Gloria condensate recovery plant unusual joint enterprise. N. Williams. il map Oil & Gas J 40:30-2+ Ja 1 '42

New Grapeland plant features flexibility in operation; condensate-recovery and gas-cycling. W. C. Westbrook. il Oil & Gas J 40:33-4, 36-7 Ap 16 '42

New Shell plant at Cromwell shows trend to simplification. H. F. Simons. il Oil & Gas J 41:58+ S 10 '42

Packed tower performance at high liquor rates; the effect of gas and liquor rates upon performance in a tower packed with two-inch rings. C. M. Cooper, R. J. Christl and L. C. Peery. bibliog diags Am Inst Chem Eng Trans 37:979-93 D '41; Abstract. Chem & Met Eng 48:163 N '41; Discussion. Am Inst Chem Eng Trans 37:993-6 D '41

Performance of refinery gas absorbers with and without intercoolers. R. M. Jackson and T. K. Sherwood. plans Am Inst Chem Eng Trans 37:959-78 D '41; Same abr. Nat Pet N 34:R134, R136-7, R140+ Ap 29 '42

Practice and equipment for absorption operations. H. R. Duffey. flow diags bibliog diags Chem & Met Eng 49:107-9 My '42

Recent developments in large ammonia absorption systems. R. L. Jones and J. R. Chamberlain. flow diag il Refrig Eng 43: 25-31 Ja '42

South Jennings distillate plant features high-pressure control. N. Williams. flow diag il Oil & Gas J 40:39, 41-2+ Mr 19 '42

Design

General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42

Nomographs for mean driving forces in diffusional problems. E. G. Scheibel and D. F. Othmer. il Ind & Eng Chem 34:1200-8 O '42

Performance of drip-point grid tower packings. M. C. Molstad and others. il diag Am Inst Chem Eng Trans 38:387-434 bibliog(p409, 434) Ap '42; Discussion. 38:885-7 O '42

ABSORPTION of rays

Absorption of extensive atmospheric showers of cosmic rays in air and lead. P. Auger and J. Daudin. Phys R 61:91-2 Ja 1 '42

Color and constitution; absorption of 2-*p*-dimethylaminostyrylquinoline and its salts; the effect on absorption of a benzene ring in the chromophoric chain of dyes. L. G. S. Brooker and R. H. Sprague. bibliog Am Chem Soc J 63:3203-13 N '41

Color and constitution; absorptions of some related vinylene-homologous series. L. G. S. Brooker and others. bibliog Am Chem Soc J 63:3192-203 N '41

Color and constitution; the absorption of phenol blue. L. G. S. Brooker and R. H. Sprague. Am Chem Soc J 63:3214-15 N '41

Color and constitution; the absorption of unsymmetrical cyanines; resonance as a basis for a classification of dyes. L. G. S. Brooker, G. H. Keyes and W. W. Williams. bibliog Am Chem Soc J 64:199-210 F '42

Effect of gradual light absorption in photographic exposure. L. Silberstein. Opt Soc Am J 32:326-31 Je '42

Isomers of crystal violet ion; their absorption and re-emission of light. G. N. Lewis, T. T. Magel and D. Lipkin. bibliog Am Chem Soc J 64:1774-82 Ag '42

Resonance absorption of neutrons in rhodium, antimony, and gold. H. Feeny, C. Lapointe and F. Rasetti. bibliog Phys R 61:469-75 Ap 1 '42

See also

Spectrum—Absorption spectra

ACCELERATION

Acceleration-sensitive governors. il diags Product Eng 13:150-3 Mr '42

ACCELEROMETERS

Measures acceleration; patent. diag Machine Design 14:120+ Ja '42

Measuring the elastic airplane. W. W. Bender, jr. il Instruments 15:96-7+ Ap '42

Quartz-crystal accelerometer. R. O. Fehr. il diag Gen Elec R 45:269-72 My '42; Same cond. Electrician 129:172-4 Ag 14 '42

ACCEPTANCES

Commercial paper and bankers' acceptances outstanding, Aug. 1940-Nov. 1941. Fed Res Bul 28:44 Ja '42 [cont monthly]

ACCESS roads. See Roads—Military use

ACCIDENT insurance. See Insurance, Accident

ACCIDENT law

Accidents in buildings; spotter system. L. E. Schwartz. 573p $7.50 Trial attorney publications, 50 Court st, Brooklyn, N.Y. '42

See also

Damages
Employers' liability
Negligence
Personal injuries
Workmen's compensation

ACCIDENT prevention. See Safety devices and measures

ACCIDENTS

Historic accidents and disasters. il diags Engineer 172:18-20, 34-5, 66-7, 82-3, 160-2, 178-80, 266-8, 286-8, 306-9, 406-9; 173:454-6, 465-7, 484-6; 174:206-8 Jl 11-18, Ag 1-8, S 12-19, O 24-N 7, D 12 '41, My 29-Je 12, S 11 '42

Primary causes of loss. P. D. Betterley. Weekly Underw 146:782-5 Ap 4 '42

Safe at home? 3 out of 5 meet death off job. Safety Eng 83:15 F '42

Safety's second World war. J. W. Randall. Nat Safety N 45:10-11, 69-72 My '42

ACCIDENTS—*Continued*

Valuable Americans. F. D. Roosevelt. Nat Safety N 46:57 O '42

Workers' off-the-job accidents a menace to production. J. H. Harvey. East Underw 42:34 D 5 '41

See also

Athletics—Accidents
Automobile accidents
Aviation—Accidents
Blackouts in war—Accidents
Burns and scalds
Electricity, Injuries from
Explosions
Falls
Fires
First aid in illness and injury
Insurance, Accident
Railroads—Accidents
Safety campaigns
Safety devices and measures
Shooting—Accidents
Street accidents

Prevention

See Safety devices and measures and other headings beginning Safety

Statistics

Accident barometer. Published in monthly numbers of National safety news

Accident deaths up 5% in 1941. Nat Underw 46:21 F 5 '42

Accident facts; National safety council report. Can Min J 63:577 S '42

Ninety-seven per cent of our accidents are preventable. Concrete (mill sec) 50:254 O '42

102,500 fatalities in 1941. W. G. Johnson. Nat Safety N 45:14-15, 64+ Je '42

Travelers finds home accidents leading all the rest in 1941. East Underw 43:41 Mr 13 '42

ACCIDENTS, Automobile. See Automobile accidents

ACCIDENTS, Industrial

Accidents and health in British factories, 1940. Monthly Labor R 54:134-9 Ja '42

Accidents on the march. A. C. Carruthers. Safety Eng 84:24 O '42

Britain's industrial front; report of the Chief inspector of factories, 1940. il Nat Safety N 45:12-13+ Je '42

Casualties on the home front; industrial accidents could be halved by rehearsed conference system of safety. A. M. Cooper. Barron's 22:20 Je 8 '42; Same cond. Management R 31:237-8 Jl '42

Casualty engineers speed war production. T. McClusky. Ins Field (Fire ed) 71:18-19+ Ag 6 '42

Common industrial injuries; simple methods of treatment. U. E. Gebhard. Ind Med 11:325-7 Jl '42

Death on the working front. il Fortune 26: supp 1-13 Jl '42; Excerpts. Nat Safety N 46:16+ Jl '42

Determining accident causes; topic for plant safety meetings. A. J. R. Curtis. Rock Prod 45:54-5 S '42

Don't pass the buck. G. E. Farley. il Safety Eng 83:6-8 Mr; 26+ Ap '42

Hammer accidents. il Nat Safety N 46:104, 106 O '42

Handbook of industrial safety standards; including supplement on Wartime protection [of industrial plants]. rev 1942 ed 190p pa 55c National conservation bur, 60 John st, New York '42; Review. Weekly Underw 147:754 S 26 '42

Head injuries; an analysis with reference to accident prevention. H. Lieber. Ind Med 11:9-10 Ja '42

Industrial accidents; examples showing need for precautions. Elec R (Lond) 131:492-3 O 16 '42

International association of industrial accident boards and commissions report; review by E. R. Hayhurst. Ind Med 10:528-30 D '41

Ladder accidents. Nat Safety N 45:38, 40 Ja '42

Lead poisoning resulting from inhalation of vaporized lead paint discharged by spray gun held accidental injury. Weekly Underw 145:1165 N 15 '41

Man or machine. R. P. Blake. il Safety Eng 82:20-2 D '41

Manpower is warpower. W. S. Knudsen. Nat Safety N 46:56-7+ O '42

Men at work, who were saved for industry by good common sense. Safety Eng 83:35 My '42

Mobilize against carelessness; report of annual meeting of National safety congress. H. H. Slawson. Foundry 69:120+ D '41

National safety council answers call to halt industrial accidents. Concrete (mill sec) 50:168-9 My '42

Nation's no. 1 fifth column. E. R. Granniss. Safety Eng 83:30 F '42

Need for safety as well as speed in production. C. W. Pierce. East Underw 43:29+ Ap 3 '42

No time to waste. P. V. McNutt. Safety Eng 83:11 Ja '42

On your toes; foot injuries and safety shoes. G. E. Twining. il Safety Eng 83:11-12+ My '42

Personal factor in accidents. Engineer 174:201-2 S 4 '42; Abstract. Electrician 129:241-2 S 4 '42

Safer materials handling by reducing dangers from contact with wire rope. F. L. Spangler. il Steel 109:85-6 N 24 '41

Safety, an essential for production. J. W. Randall. il Spectator (Life ed) 148:6-9+ Mr 26 '42; Excerpts. Safety Eng 83:17-19 Mr '42

Safety builds defense. K. M. Farr. il Safety Eng 82:9-10 N '41

Safety on the job. Business Week p27-8 N 7 '42

Safety work must pierce individual's consciousness; abstracts. J. W. Randall. Nat Underw 46:19+ F 26 '42; East Underw 43:33 F 27 '42

Someone to blame. Published in monthly numbers of Safety engineering

Time lost by accidents in 1941 would build 66 battleships; safety campaign. Coal Age 47:60-1 Je '42

Too small for safety; accident prevention in small plant. E. R. Grannis. il Safety Eng 83:11-12, 18 Je '42

Waste by accidents aid to nation's enemies. J. W. Randall. Weekly Underw 146:487+ F 28 '42

Welfare and productivity, 1941 report of Chief Inspector of factories. Economist 143:478 O 17 '42

Who pays? W. A. Tonning. il Safety Eng 83:20-1 F '42

Work accidents outrun production; abstract. W. G. Johnson. Management R 31:284-5 Ag '42

See also

Boiler explosions
Dust explosions
Employers' liability
Eye—Injuries
Factory inspection
Falls
Machinery—Safety devices
Mine accidents
Safety devices and measures
Workmen's compensation

also subdivision Accidents under special subjects, e.g.

Coal mines and mining—Accidents and explosions
Paper mills—Accidents
Quarries and quarrying—Accidents
Shipyards—Accidents

also International association of industrial accident boards and commissions

Demonstration models

Here's how it happened; table-top demonstration re-enacts the electric line accident. il Nat Safety N 45:52 Ap '42

Records

Are accident reports accurate? Ry Age 113:651-4 O 24 '42

Keeping and using accident records; abstract. A. P. McIntosh. Management R 31:322-3 S '42

Michigan will revise accident report form. East Underw 43:42 Mr 13 '42

Statistics

Annual report on industrial accidents in Illinois for 1941. 70p, 35 tables Illinois. Dept. of labor, 205 W. Wacker drive, Chicago '42

ACCIDENTS, Industrial—Statistics—*Continued*

Causes and prevention of accidents in logging and lumber mills, 1940. M. D. Kossoris and F. S. McElroy. Monthly Labor R 53:1465-85 D '41

Coke-oven accidents in the United States during the calendar year 1940. W. W. Adams and V. E. Wrenn. U S Bur Mines Tech Pa 640:1-19; pa 5c Supt. of doc. '41

Do accidents aid the Axis? Safety Eng 83: 36 Je '42

Fatal industrial accidents in Great Britain, first seven months, 1939-1942. Economist 143:313 S 5 '42

Industrial accidents in 1940. Economist 141: 515 O 25 '41

Industrial accidents in 1941. Nat Safety N 45:10-12 Mr '42

Industrial injuries among the urban population as recorded in the National health survey. J. Klebba. Pub Health Rep 56: 2375-92 D 12 '41

Industrial injuries in the United States during 1941. M. D. Kossoris. Monthly Labor R 55:501-27 S '42

Shipyard injuries and their causes, 1941. F. S. McElroy and G. R. McCormack. Monthly Labor R 55:680-96 O '42

Theory of probability applied to accidents. D. C. Stewart. Edison Elec Inst Bul 10:257-60 Jl '42

See also

Coal mines and mining—Accidents and explosions

Quarries and quarrying—Accidents

ACCLIMATIZATION

See also

Altitude, Influence of

ACCOMMODATION coefficients

Accommodation coefficient of mercury on platinum and the heat of vaporization of mercury. L. B. Thomas and F. G. Olmer. diags Am Chem Soc J 64:2190-5 S '42

ACCOUNTANTS

Accounting profession in war. J. L. Carey. J Account 73:444-50 My '42

Communication to selective service authorities. J Account 73:344-9 Ap '42

Shortage of accountants. J Account 74:98-9 Ag '42

Status of accountants under Selective service act. C. G. Blough and J. L. Carey. J Account 74:306-14 O '42

See also

Accounting

Accounting ethics

ACCOUNTANTS, Public

Coördination between internal auditor and public accountant. D. F. Houlihan. J Account 73:314-20 Ap '42

Establishing a public accounting practice. H. B. Livengood. J Account 72:531-2 D '41

Future of the small practitioner. G. M. Thompson. J Account 73:79-80 Ja '42

Junior accountant, his duties and opportunities. W. W. Nissley. J Account 74:246-56 S '42

Practice of public accounting in wartime. G. D. Bailey. J Account 74:18-24 Jl '42

Staff training. R. D. Gracey. J Account 74: 326-31 O '42

Status of public accountants under gasoline rationing regulations. J Account 74:379 O '42

See also

Accounting

Auditing

Directories

Directory of early American public accountants. A. C. Littleton. (Bur. of economic and business research bul. 62) 39p Univ. of Illinois, Urbana '42

Law

Arizona state board of accountancy v. Canning. J Account 73:479-80 My '42

C.P.A. license bond held to cover shortage. East Underw 42:31 N 28 '41

Privileged communications. E. Feldman. J Account 73:352-3 Ap '42

Suspension resulting from lack of independence. J. L. Dohr. J Account 73:278 Mr '42

United States v. Medford H. White. J. L. Dohr. J Account 73:187-9 F '42

ACCOUNTANTS' reports

Accountants' reports on examinations of securities and similar investments under the Investment company act. J Account 73: 162-3 F '42

Preparation and presentation of accounting data in state regulatory rate hearings. L. G. James. Am Gas Assn Proc 1941:164-7

Streamlining reports. J. S. Phillips. Edison Elec Inst Bul 10:195-6 My '42

See also

Auditors' reports

ACCOUNTING

Accounting aspects of price administration. H. F. Taggart. J Account 74:11-17 Jl '42

Accounting aspects of the priorities system. G. N. Farrand. J Account 74:297-305 O '42

Accounting, auditing and taxes, 1941; papers presented at the fifty-fourth annual meeting of the American institute of accountants. 216p pa $1 Am. inst. of accountants, New York '41

Accounting expansion in defense industries; abstract. D. E. Browne. Management R 30: 417-18 N '41

Accounting for depreciation. J. B. Bailey. J Account 74:350-2 O '42

Accounting method. C. R. Rorem and H. D. Kerrigan. 3d ed 788p $4 McGraw-Hill '42

Accounting principles; a Pathfinder course. J. H. Jackson. 767p $4.80 Charles R. Hadley co, 330 N. Los Angeles st, Los Angeles '42

Activities of the S.E.C. in accounting and auditing; 7th annual report. J Account 73: 573-6 Je '42

Advanced accounting. H. S. Noble, W. E. Karrenbrock and H. Simons. 846p $4.50 South-western pub. co. '41

Business and accounting procedure. C. E. Bowman and A. L. Percy. 483p $1.76 Am. book co. '42

Business record-keeping; advanced course. F. H. Elwell, E. A. Zelliot and H. I. Good. 394p $1.60 Ginn '42

Circulation principle; a proposed plan for preparation of financial statements. R. M. Swisher. Credit & Fin Management 44:19-24 Ag '42

Comparison of principles and procedures; statements on accounting procedure by American institute of accountants and by American accounting association compared. R. L. Boyd. J Account 74:46-55 Jl '42

Converting close corporations into partnerships or individual proprietorships. W. H. Whitney. J Account 72:514-23 D '41

Elements of accounting. J. H. Jackson. 1941 ed 431p $3.50 Charles R. Hadley co, 330 N. Los Angeles st, Los Angeles '41

Functional credit system combines accounts receivables and credits; A. E. Staley mfg. company, Decatur, Ill. C. V. Cox. il Credit & Fin Management 43:4-6+ D '41

Fundamentals of accounting, with questions, problems and practice sets. P. E. Mason. 494p $4.50 Foundation press, 222 W. Adams st, Chicago '42

Industrial accounting. S. W. Specthrie. 243p $3.75; school ed $3.25 Prentice-Hall '42

Introductory accounting. D. D. Kennedy, G. R. Esterly and W. J. Von Minden. 702p $4.50 Ronald press '42

Methods study applied to an accounts payable system. W. T. Collins. N A C A Bul 23:641-64 Ja 15 '42

Outline of elementary accounting. R. D. M. Bauer and P. H. Darby. 196p pa $1 Barnes & Noble, New York '42

Practical accounting. E. L. Theiss and J. L. Hunter. 386p $2.25 McGraw-Hill '42

Proceedings of the fifth annual Institute on accounting held at the Ohio state university, May 15-16, 1942. 130p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '42

ACCOUNTING—*Continued*

Reflections on the development of accounting procedures. J. L. Dohr. J Account 74:41-5 Jl '42

Some modern aids to accounting and control; Atlas supply company. J. O. Williford. il J Account 74:217-26 S '42

Theory of accounts. A. H. Rosenkampff and W. Wider. rev ed 517p $4 Ronald press '42

This plan cuts ledger posting costs; International tag and salesbook company. Am Business 12:34 My '42

Trends in accepted accounting and their relation to cost accounting. M. E. Peloubet. N A C A Bul 23:835-47 F 15 '42

What constitutes an adequate accounting system for a public welfare agency? J. O. Peavey. J Account 74:433-9 N '42

Why not attrition? can be applied to solve problems with three or even four unknown factors. W. B. Castenholz. J Account 74:341-9 O '42

Why use algebra? L. Perkins. J Account 74:242-5 S '42

See also

Accountants, Public
Accountants' reports
Accounts receivable
Auditing
Balance sheets
Bank accounting
Billing
Bookkeeping
Budget, Business
Consolidated statements
Cost accounting
Depreciation
Dividends
Financial ratios
Financial statements
Government accounting
Interest
Inventories
Invoices
Municipal accounting
Payrolls
Port accounting
Profit
Punched card system
Reserves
Stores systems
Surplus
Vouchers

also subdivision Accounting under special subjects, e.g.

Air lines
Airplane factories
Chemical plants
Contractors
Contracts, Government
Corporations
Cotton ginning
Electric utilities
Factories
Gas companies
Heat treatment
Income tax
Instalment plan
Insurance companies
Lumbering
Medical service—Group plan
Payrolls
Petroleum refineries
Public utilities
Railroads
Retail trade
Steel works
Taxation
Trusts and trustees
Warehouses
Waterworks

Bibliography

Complete topical index, N.A.C.A. publications, April, 1920 to January, 1942. N A C A Bul 23:715-89 sec 3 Ja 15 '42

Current cost literature. N A C A Bul 23:623+ sec 2 Ja 1 '42 [cont monthly]

Current literature. Published in monthly numbers of Journal of accountancy

Examinations

American institute of accountants examinations. Published in monthly numbers of Journal of accountancy

Laws and regulations

Findings and opinions; Securities and exchange commission. Published in monthly numbers of Journal of accountancy

Independence of auditors. F. H. Hurdman. bibliog J Account 73:54-60 Ja '42

See also

Accountants, Public—Law

Mechanical aids

Airplane parts firm cuts accounting costs; Thompson aircraft products company. Manuf Rec 111:32+ Ag '42

Automatic typing in the billing department; Larrowe milling company, Detroit. il Am Business 12:30-2+ Mr '42

Deposit receipts replace passbooks; experience of Terminal national bank, Chicago. G. S. Morse. il Bankers Mo 58:498, 500+ N '41

Distribution and bookkeeping combined and modernized. S. A. Horvath. il Bankers Mo 59:160-1+ Ap '42

Mechanised accounting. Electrician 128:592-3 Je 12 '42

Paper work in defense jobs; Packard's experience. R. G. French. il Am Business 11:20-2 D '41

Twelve jobs on one machine by planning the forms to fit the loan and discount machine. R. H. Albig. il Bankers Mo 59:14-15 Ja '42

We analyze as we prove; use of an analysis-proving machine. J. J. Durkin. Bankers Mo 59:466 O '42

When employees buy defense bonds with salary deductions; International Harvester finds mechanized accounting. H. E. Fleming. il Am Business 11:34-6 D '41

When the payroll expands; Packard payroll of 17,000 workers. R. G. French. il Am Business 12:22-4, 42-3 Ja '42

See also

Punched card system
Tabulating machines

Standards

Accountants and accounts. Economist 143:392-3, 518-19 S 26, O 24 '42

Accounting standards. V. H. Stempf. J Account 73:61-74 Ja '42

House we live in; allegory emphasizes need of revising standards of auditing procedure. R. J. Murphey. J Account 74:36-7 Jl '42

Need for a statement of auditing standards. S. J. Broad. J Account 74:25-35 Jl '42

Study and teaching

Concerning the perpetuation of accounting fallacies in the classroom. H. B. Eversole. J Account 73:143-5 F '42

Lecture notes on the law of accounting. J. L. Dohr. 136p pa $2.25 Columbia univ. press '42

Scope and extent of the defense training program in accounting. S. P. Garner. J Account 73:537-45 Je '42

Staff training. R. D. Gracey. J Account 74:326-31 O '42

Terminology

Names wanted, a problem in terminology. J. L. Dohr. bibliog J Account 74:133-9 Ag '42; Discussion. 74:354-5 O '42

Should the term "surplus" be eliminated? report of the subcommittee of American institute of accountants. J Account 73:451-7 My '42

Terminology of the balance-sheet. A. C. Kelley. J Account 72:510-13 D '41

Terminology of the balance sheet. G. O. May. J Account 73:35-6 Ja '42

War problems

War and accounting procedures. G. O. May. J Account 73:393-400 My '42

Wartime accounting; government war contracts, wartime financial statements, income taxes, price control, and priorities and allocations. G. N. Farrand. J Account 73:401-28 My '42

ACCOUNTING, Government. See Government accounting; Municipal accounting

ACCOUNTING and war

Effects of war on financial statements. G. N. Farrand. J Account 74:210-16 S '42; Same. Credit & Fin Management 44:26-7, 37-9 S '42; Abstract. Management R 31:319-20 S '42

Importance of accountancy in the war program. A. Stewart. J Account 74:397-9 N '42

National association of cost accountants year book, 1942; proceedings of the twenty-third International cost conference, Chicago, June 22-24, 1942. 213p Nat. assn. of cost accountants, 385 Madison av, New York '42

Practice of accounting in wartime. G. D. Bailey. J Account 74:18-24 Jl '42

ACCOUNTING ethics

Auditor's opinion on the basis of a restricted examination (No. 2). J Account 74:440-3 N '42

ACCOUNTING ethics—*Continued*

Future of the small practitioner. E. W. Schietinger; F. H. Hurdman. J Account 73:461-3 My '42; Discussion. 74:258-61 S '42

Independence of auditors. F. H. Hurdman. bibliog J Account 73:54-60 Ja '42

Privileged communications. E. Feldman. J Account 73:352-3 Ap '42

Professional ethics and solicitation. E. B. Wilcox. J Account 74:166-8 Ag '42

ACCOUNTING supply manufacturers association, Specialty. See Specialty accounting supply manufacturers association

ACCOUNTS payable

Methods study applied to an accounts payable system. W. T. Collins. N A C A Bul 23:641-64 Ja 15 '42

ACCOUNTS receivable

Accounts receivable. R. L. Redheffer. Banking 35:56-7 S '42; Excerpts. Bankers M 145:344-5 O '42

Advantage in accounts receivable financing; abstracts. H. C. Culshaw. Comm & Fin Chr 155:1711 Ap 30 '42; Bankers M 144:453-4 My '42

ABA manual on accounts receivable loans. Comm & Fin Chr 156:1711 N 12 '42

Assigned accounts borrowing. H. C. Culshaw. Banking 35:57-8 S '42

Auditing techniques. A. C. Littleton. J Account 74:106-10 Ag '42

Auditor's report and the banker. P. F. Gray. J Account 72:527-9 D '41

Bank factoring of accounts receivable. C. B. Wilber. Bankers M 144:471-6 Je '42

Functional credit system combines accounts receivables and credits; A. E. Staley mfg. company, Decatur, Ill. C. V. Cox. il Credit & Fin Management 43:4-6+ D '41

Is any legislation advisable to regulate the assignment of open accounts receivable? A. E. Duncan. Credit & Fin Management 44:11-12 Je '42; Reply. F. A. Dudley. 44:4-5 Ag '42

Loans on accounts receivable; abstract. R. B. Cox. Bankers M 144:458 My '42

Pledging accounts receivable for new loan. Banking 35:41 O '42

Streamlining the accounts receivable record; Old colony envelope co., Westfield, Mass. H. F. Burrows. N A C A Bul 24:64-9 S 15 '42; Abstract. Management R 31:337-9 O '42

System saves time and work; original invoice replaces ledger card in handling accounts receivable; American chicle co. A. H. Mader. il Credit & Fin Management 44:4-7+ O '42

ACCOUNTS receivable insurance. See Insurance, Accounts receivable

ACCURACY

Speed promotes accuracy in posting machine operation. il Bankers Mo 58:545-7 D '41

ACENAPHTHENE

Acenaphthene series; mono- and di-*tert.*-butyl-acenaphthene, -acenaphthene quinone, and -naphthalic anhydride, and their derivatives. A. T. Peters. Chem Soc J p562-5 S '42

Condensations by sodium; reactions of amylsodium with naphthalene, acenaphthene and decalin. A. A. Morton and others. bibliog Am Chem Soc J 64:2250-3 O '42

N-methylformanilide synthesis of aldehydes. L. F. Fieser and J. E. Jones. bibliog Am Chem Soc J 64:1666-9 Jl '42

ACETALDEHYDE

Catalysis of the thermal decomposition of acetaldehyde by hydrogen sulfide. W. L. Roth and G. K. Rollefson. Am Chem Soc J 64:1707-11 Jl '42

Chain photolysis of acetaldehyde in intermittent light. W. L. Haden, jr. and O. K. Rice. bibliog J Chem Phys 10:445-60 Jl '42

Kinetics of gaseous reactions by means of the mass spectrometer; the thermal decomposition of dimethyl ether and acetaldehyde. E. Leifer and H. C. Urey. diags Am Chem Soc J 64:994-1001 Ap '42

Liquid-liquid extraction data; toluene and acetaldehyde systems. D. F. Othmer and P. E. Tobias. Ind & Eng Chem 34:690-2 Je '42

Photolysis of the aliphatic aldehydes; acetaldehyde and iodine mixtures. F. E. Blacet and J. D. Heldman. bibliog diag Am Chem Soc J 64:889-93 Ap '42

Photolysis of the aliphatic aldehydes; acetaldehyde and iodine mixtures in which wave length, temperature and iodine concentration varied. F. E. Blacet and D. E. Loeffler. bibliog Am Chem Soc J 64:893-6 Ap '42

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

ACETALS

α-Alkoxyvinyl- and α-alkoxyethylbarbituric acids. S. M. McElvain and H. Burkett. Am Chem Soc J 64:1831-6 Ag '42

Ketene acetals; ketene dialkylacetals. S. M. McElvain and P. M. Walters. bibliog Am Chem Soc J 64:1059-60 My '42

Ketene acetals: the elimination of hydrogen bromide from the acetals of α-bromoaldehydes; isopropyl- and *n*-propylketene diethylacetal. S. M. McElvain, R. L. Clarke and G. D. Jones. bibliog Am Chem Soc J 64:1966-9 Ag '42

Ketene acetals; the reaction of ketene diethylacetal with α,β-unsaturated carbonyl compounds. S. M. McElvain and H. Cohen. bibliog Am Chem Soc J 64:260-5 F '42

Ketene acetals; the reaction of ketene diethylacetal with various halogen compounds and acids. S. M. McElvain and D. Kundiger. bibliog Am Chem Soc J 64:254-9 F '42

Preparation and properties of certain polyethoxyethanes and their bromo derivatives. S. M. McElvain and P. M. Walters. bibliog Am Chem Soc J 64:1963-5 Ag '42

Preparation of orthoesters. S. M. McElvain and J. W. Nelson. bibliog Am Chem Soc J 64:1825-7 Ag '42

ACETAMIDE

Condensation of sulfoxides with *p*-toluenesulfonamide and substituted acetamides. D. S. Tarbell and C. Weaver. bibliog Am Chem Soc J 63:2939-42 N '41

ACETAMIDOFLUORENE

Double check on insecticide reveals unwanted features: 2-acetamidofluorene as cancer cause. Sci Am 166:246 My '42

ACETAMIDOPHENYL allyl ether

Thermal rearrangement of *m*-acetamidophenyl allyl ether. R. T. Arnold, J. McCool and E. Schultz. Am Chem Soc J 64:1023-5 My '42

ACETATES

Action of diazomethane upon acyclic sugar derivatives; a new synthesis of ketoses and of their open chain (*keto*) acetates. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. bibliog Am Chem Soc J 64:2329-31 O '42

Allylic rearrangements; kinetics and mechanisms of the conversion of crotyl and methylvinylcarbinyl chlorides to acetates and ethyl ethers. J. D. Roberts, W. G. Young and S. Winstein. bibliog Am Chem Soc J 64:2157-64 S '42

Derivatives of starch; physical properties of the acetyl derivatives. C. A. Burkhard and E. F. Degering. bibliog Rayon 23:416-19 Jl '42

Derivatives of starch; preparation of acetyl derivatives. C. A. Burkhard and E. F. Degering. bibliog Rayon 23:340-3 Je '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

Solubility of silver acetate in aqueous solutions of some other acetates; the formation of diacetato-argentate ion. F. H. MacDougall and M. Allen. bibliog J Phys Chem 46:730-7 Je '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine acetates; the surface tension of aqueous solutions of dodecylamine acetate. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:2067-70 S '42

ACETATES—*Continued*

Sugar acetates, acetylglycosyl halides, and orthoacetates in relation to the Walden inversion. H. L. Frush and H. S. Isbell. bibliog pl J Research Nat Bur Stand 27: 413-28 N '41

See also

Cellulose acetate

ACETIC acid

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

Apparent degree of ionization of hydrochloric, sulfuric, and acetic acids; an electrolytic conductivity experiment for general chemistry. L. E. West and A. Gahler. diag J Chem Educ 19:366-8 Ag '42

Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42

Countercurrent liquid-liquid extraction in a wetted-wall tower. R. E. Treybal and L. T. Work. bibliog diags Am Inst Chem Eng Trans 38:203-35 F '42

Decomposition of arylazo-β-naphthylamines by sodium nitrite and glacial acetic acid. H. H. Hodgson and C. K. Foster. bibliog Chem Soc J p30-3 Ja '42

Dropping mercury electrode in acetic acid; discontinuous current-voltage curves. G. B. Bachman and M. J. Astle. bibliog Am Chem Soc J 64:1303-9 Je '42

Dropping mercury electrode in acetic acid; electrocapillary curves and the theory of maxima. G. B. Bachman and M. J. Astle. bibliog Am Chem Soc J 64:2177-81 S '42

Effect of temperature on the surface tension and density of some halogen substituted acetic acids. J. J. Jasper and L. Rosenstein. bibliog Am Chem Soc J 64:2078-9 S '42

Entropy of acetic acid. J. O. Halford. bibliog J Chem Phys 9:859-63 D '41

Entropy of the monomeric forms of formic acid and acetic acid. J. O. Halford. bibliog J Chem Phys 10:582-4 S '42

Halogen addition to ethylene derivatives; bromine and iodine additions in glacial acetic acid. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:709-16 Mr '42

Halogen addition to ethylene derivatives; the mechanism of the halide ion catalyzed addition reaction. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:704-8 Mr '42

Heats of mixing in the ternary system ethanol—acetic acid—ethyl acetate by a rapid approximate method. B. Longtin. bibliog J Phys Chem 46:399-405 Mr '42

Liquid-liquid extraction data; toluene and acetaldehyde systems. D. F. Othmer and P. E. Tobias. Ind & Eng Chem 34:690-2 Je '42

Liquid-liquid extraction in wetted-wall and packed columns. E. W. Comings and S. W. Briggs. bibliog diags Am Inst Chem Eng Trans 38:143-77 F '42

Mixed solvent extraction; batch-extraction stoichiometric computations. T. G. Hunter. bibliog diags Ind & Eng Chem 34:963-70 Ag '42

Molal volumes of solutes; sodium acetate and acetic acid. O. Redlich and L. E. Nielsen. Am Chem Soc J 64:761-2 Ap '42

Oxalic acid from sawdust; optimum conditions for manufacture. D. F. Othmer, C. H. Gamer and J. J. Jacobs, jr. bibliog flow sheet Ind & Eng Chem 34:262-7 Mr '42

Partial pressures of ternary liquid systems and the prediction of tie lines. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:696-700 Je '42

Plumbic acetate-anhydrous acetic acid solutions. A. W. Davidson, W. C. Lanning and M. M. Zeller. bibliog Am Chem Soc J 64: 1523-7 Jl '42

Preparation and properties of acetic acid-*d*. H. Linschitz, M. E. Hobbs and P. M. Gross. Am Chem Soc J 63:3234 N '41

Preparation of orthoesters. S. M. McElvain and J. W. Nelson. bibliog Am Chem Soc J 64:1825-7 Ag '42

Properties of cellulose esters of acetic, propionic, and butyric acids. C. J. Malm, C. R. Fordyce and H. A. Tanner. Ind & Eng Chem 34:430-5 Ap '42

Pyrolysis of lactic acid derivatives; conversion of methyl α-acetoxypropionate to methyl acrylate. L. T. Smith and others. bibliog Ind & Eng Chem 34:473-9 Ap '42

Reactions of β-pinene; with selenium dioxide in acetic acid. W. D. Stallcup and J. E. Hawkins. Am Chem Soc J 64:1807-9 Ag '42

Relative acid strengths of formic, acetic, and propionic acids in alcohols and dioxane-water mixtures. M. Kilpatrick and R. D. Eanes. bibliog Am Chem Soc J 64:2065-7 S '42

Solubility diagrams for the systems ethylidene diacetate-acetic acid-water and vinyl acetate-acetone-water. J. C. Smith. J Phys Chem 46:229-32 F '42

Vapor-liquid equilibria of the system acetone—acetic acid—water. R. York, jr. and R. C. Holmes. bibliog diags Ind & Eng Chem 34:345-50 Mr '42

Vapor phase esterification equilibrium. J. O. Halford and D. Brundage. bibliog Am Chem Soc J 64:36-40 Ja '42

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

Prices

Acetic acid price ceiling leveled off. Oil Paint & Drug Rep 141:4+ Ja 5 '42

Price schedule. Iron Age 149:140 Ja 1 '42

ACETIC anhydride

Benz*cyclo*octatetraenes; the action of acetic anhydride on δ-benzylidenelævulic acids. W. S. Rapson and R. G. Shuttleworth. Chem Soc J p33-5 Ja '42

ACETOACETIC esters

Introduction of substituted vinyl groups; acetoacetic ester series. A. C. Cope and C. M. Hofmann. bibliog Am Chem Soc J 63:3456-9 D '41

Synthesis of ketones of the type $RCOCHR_2$ from α,α-disubstituted β-keto esters; an extension of the acetoacetic ester type of ketone synthesis. B. E. Hudson, jr. and C. R. Hauser. Am Chem Soc J 63:3163-4 N '41

ACETOBACTER suboxydans

Some studies on L-glucoheptulose. W. D. Maclay, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1606-9 Jl '42

ACETONE

Acetone, butyl solvents by fermentation down. Oil Paint & Drug Rep 142:3+ Ag 24 '42

Acetylenic analog of neopentyl bromide; evidence that the hindrance to displacement reactions in neopentyl halides is steric in nature. P. D. Bartlett and L. J. Rosen. bibliog il Am Chem Soc J 64:543-6 Mr '42

Action of light on cellulose; a method for the measurement of the osmotic pressure of colloidal solutions. R. E. Montonna and L. T. Jilk. bibliog diags J Phys Chem 45: 1374-81 D '41

Counting of free alkyl radicals; application to the photolysis of acetone. M. H. Feldman, J. E. Ricci and M. Burton. bibliog diag J Chem Phys 10:618-23 O '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50; Discussion. 50-1 F '42

Distribution of acetyl groups in a technical acetone-soluble cellulose acetate. T. S. Gardner and C. B. Purves. bibliog Am Chem Soc J 64:1539-42 Jl '42

Effect of operating variables on the performance of a packed column still; system acetone-water. D. E. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

ACETONE—*Continued*

Heat of combustion of acetone. C. B. Miles and H. Hunt. bibliog diags J Phys Chem 45:1346-59 D '41

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

Mixed solvent extraction; batch-extraction stoichiometric computations. T. G. Hunter. bibliog diags Ind & Eng Chem 34:963-70 Ag '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Optimum liquid combinations for cloud chambers. C. Beck. diag R Sci Instr 12: 602-6 D '41

Photochemical studies; the photochemical decomposition of acetone in the presence of an inert gas. J. J. Howland, jr. and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3404-6 D '41

Photometric determination of acetone-insoluble material in soybean oil; relation of acetone-insoluble material to break. C. A. Murray and E. B. Oberg. Ind & Eng Chem Anal ed 14:785-7 O 15 '42

Raman spectra of dialkyl ketones. F. F. Cleveland and others. J Chem Phys 10: 18-21 Ja '42

Solubility diagrams for the systems ethylidene diacetate-acetic acid-water and vinyl acetate-acetone-water. J. C. Smith. J Phys Chem 46:229-32 F '42

Structure of diacetone-L-fucitol (2,3,4,5-diisopropylidene-L-fucitol). A. T. Ness, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:982-5 Ap '42

Thermal decomposition of acetone catalyzed by iodine. G. M. Gantz and W. D. Walters. bibliog il Am Chem Soc J 63:3412-19 D '41

Vapor-liquid equilibria of the system acetone—acetic acid—water. R. York, jr. and R. C. Holmes. bibliog diags Ind & Eng Chem 34:345-50 Mr '42

ACETOPHENONE

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Friedel-Crafts acylations of some sterically hindered alkylbenzenes. G. F. Hennion and S. F. deC. McLeese. Am Chem Soc J 64: 2421-2 O '42

Mechanism of the haloform reaction; the preparation of mixed haloforms. J. G. Aston and others. Am Chem Soc J 64:1413-16 Je '42

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

Water effects upon the photochemical bromination of acetophenone. E. M. Hicks, M. H. Hicks and J. R. Sampey. bibliog Am Chem Soc J 64:887-9 Ap '42

ACETOPYRUVIC acid

Preparation and reactions of acetopyruvic acid (α,γ-diketo-*n*-valeric acid). A. L. Lehninger and E. J. Witzemann. bibliog Am Chem Soc J 64:874-8 Ap '42

ACETOXYANTHRONE

Reaction of Grignard reagents with acyloxyanthrones. L. F. Fieser and H. Heymann. bibliog Am Chem Soc J 64:376-82 F '42

ACETYL chloride

Determination of hydroxyl content of organic compounds; acetyl chloride as a reagent. B. E. Christensen, L. Pennington and P. K. Dimick. bibliog diags Ind & Eng Chem Anal ed 13:821-3 N 15 '41

Determination of menthol in oil of peppermint; acetyl chloride as a reagent. B. E. Christensen and L. Pennington. Ind & Eng Chem Anal ed 14:54-5 Ja 15 '42

Effect of structure on reactivity: nuclear substitution of benzene derivatives. H. F. McDuffie, jr. and G. Dougherty. bibliog Am Chem Soc J 64:297-9 F '42

ACETYL choline

Excessive acidity of the nerves may be responsible for a host of serious ailments; abstract. R. Gesell. Science 95:sup 11 Ap 10 '42

ACETYLCYCLOHEXENE

Self-condensation of acetyl*cyclo*hexene. E. R. H. Jones and H. P. Koch. Chem Soc J p393-5 Je '42

ACETYLDURENE

Raman spectra evidence for hindrance of resonance by ortho substitution. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 63:3121-3 N '41

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

ACETYL glucosamine

Nature of the carbohydrate residue in ovomucoid; hydrolysis of the methylated carbohydrate residue. M. Stacey and J. M. Woolley. Chem Soc J p550-5 S '42

ACETYL methyl phenanthrene

Investigations in the 1-methylphenanthrene series; the synthesis of 3-acetyl-1-methylphenanthrene. T. Hasselstrom and D. Todd. bibliog Am Chem Soc J 64:1225-6 My '42

ACETYLSALICYLIC acid

Saponification of acetylsalicylic acid at 35°. J. M. Sturtevant. bibliog Am Chem Soc J 64:77-80 Ja '42

Prices

Price limit set. Oil Paint & Drug Rep 141: 3+ F 16 '42

ACETYLSALICYLYL disulfide

Preparation of acetylsalicylyl disulfide and salicylyl disulfide. B. Riegel and H. Wittcoff. bibliog Am Chem Soc J 64:1486-7 Je '42

ACETYLATION

Action of ketene on 5,5-dibromoxyhydrouracil. M. Fytelson and T. B. Johnson. bibliog Am Chem Soc J 64:306-8 F '42

Derivatives of starch. C. A. Burkhard and E. F. Degering. bibliog Rayon 23:340-3, 416-19 Je-Jl '42

Determination of hydroxyl content of organic compounds; acetyl chloride as a reagent. B. E. Christensen, L. Pennington and P. K. Dimick. bibliog diags Ind & Eng Chem Anal ed 13:821-3 N 15 '41

Sugar acetates, acetylglycosyl halides, and orthoacetates in relation to the Walden inversion. H. L. Frush and H. S. Isbell. bibliog pl J Research Nat Bur Stand 27:413-28 N '41

ACETYLENE

Acetylene and other war chemicals made by cracking in a regenerative furnace. diags Nat Pet N 34 pt 2:R270-2, R274-6 Ag 26 '42

Acetylene as motor fuel. N. C. Jones. Chem & Ind 61:368 Ag 29 '42

It's done with gas; vital role of oxygen and the acetylenes in the war effort. il Business Week p50+ My 30 '42

Making acetylene from coal gas in a high frequency arc discharge; abstract. E. Briner, J. G. de Werra and J. P. Jacob. Chem & Met Eng 49:157 Mr '42

Near infra-red spectra of linear Y_2X_2 molecules. W. H. Shaffer and A. H. Nielsen. J Chem Phys 9:847-52 D '41

Phase behavior of the acetylene-ethylene system. S. W. Churchill, W. G. Collamore and D. L. Katz. bibliog diag Oil & Gas J 41:33-4, 36+ Ag 6 '42

Production of acetylene by thermal cracking of petroleum hydrocarbons. R. L. Hasche. bibliog il diags Chem & Met Eng 49:78-83 Jl '42

Stop waste of welding gases. il Factory Management 100:119 Je '42; Eng N 128:873 My 21 '42

Studies in gaseous hydrogenation and polymerization reactions. H. D. Burnham and R. N. Pease. bibliog Am Chem Soc J 64: 1404-10 Je '42

ACETYLENE—*Continued*

Texas group pushes program for rubber from acetylene gas. Nat Pet N 34:17-18 F 25 '42

Texas university works on process to get acetylene from casinghead. Nat Pet N 34: 18 Ja 14 '42

Thermal reaction of ethylene with acetylene. E. A. Naragon, R. E. Burk and H. P. Lankelma. bibliog Ind & Eng Chem 34: 355-8 Mr '42

See also
Oxyacetylene cutting
Oxyacetylene welding

Generators

Acetylene generators save Swiss cars. il Automotive & Aviation Ind 87:25+ Ag 1 '42

Acetylene generators work better when carefully cleaned. Coal Age 47:66 Ja '42

Oxweld MP-10 portable acetylene generator. il Roads & Bridges 80:50 Ja '42

ACETYLENE compounds

Acetylenic ethers; ethoxy- and butoxy-acetylene. T. L. Jacobs, R. Cramer and J. E. Hanson. bibliog Am Chem Soc J 64:223-6 F '42

Effect of silver ion coördination upon the Raman spectra of some unsaturated compounds. H. J. Taufen, M. J. Murray and F. F. Cleveland. bibliog Am Chem Soc J 63:3500-3 D '41

Heat capacity, entropy, and heats of transition, fusion, and vaporization of dimethylacetylene; free rotation in the dimethylacetylene molecule. D. M. Yost, D. W. Osborne and C. S. Garner. bibliog Am Chem Soc J 63:3492-6 D '41

Hydrogenation of disubstituted acetylenes. K. W. Greenlee and W. C. Fernelius. Am Chem Soc J 64:2505 O '42

Partial reduction of acetylenes to olefins using an iron catalyst; enyne and dienyne reduction. A. F. Thompson, jr. and E. N. Shaw. Am Chem Soc J 64:363-6 F '42

Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; phenyl substituted olefins and acetylenes. H. A. Laitinen and S. Wawzonek. bibliog Am Chem Soc J 64:1765-8 Ag '42

ACID handling

See also
Acid resisting materials

ACID industries

Acid trust indictment trial may be deferred for duration. Oil Paint & Drug Rep 142: 3+ Jl 6 '42

Acid trust suit postponement until after war asked by U.S. Oil Paint & Drug Rep 142:7 O 5 '42

ACID open hearth research association

Organization. Blast F & Steel Pl 30:1163-4 O '42; Foundry 70:150 N '42

ACID resisting materials

Acid resistance in chemical plant; wide application of Staybrite steel. Chem Age (Lond) 47:135-6 Ag 8 '42

Acid-resistant metals; forty years of progress. C. Michels. Pulp & Pa of Can 43:614-15 Jl '42

Acid-resisting wood. Chem Age (Lond) 46: 91 F 14 '42

Acid-resisting wood; its advantages and limitations. Chem Age (Lond) 46:55 Ja 24 '42

Anodizing tank short circuits overcome; linings of Unichrome Resist sheet. O. H. Loven. il diag Iron Age 150:98-100 O 1 '42

Carbozite coating for pickling vats and tanks. Blast F & Steel Pl 30:1053-4 S '42

Fiber solves pickling tank problem. D. Berg. diag Factory Management 100:110 F '42

Lead pipe conservation and care of acid-proof linings. Pulp & Pa of Can 43:784 S '42

New processes bring pumping problems in the wartime refining plants. D. T. Whiting and K. P. Hurley. Nat Pet N 34 pt 2:R263-4 Ag 26 '42

New technical coating; Alkacite. il Rayon 23: 553 S '42

Non-metallic chemical plant. A. E. Williams. il diags Engineer 174:5-6, 25-7, 44-6 Jl 3-17 '42

Non-metallic materials; chemical, stoneware, porcelain, cements; physical properties, makers. Chem & Met Eng 49:95-6 S '42

Protective coating, Chempruf. Gen Elec R 45:596 O '42

Uses and properties of acidproof cements; sulfur, sodium silicate and resin types. J. H. S. Barr. il Chem & Met Eng 49:96-9 O '42

See also
Bakelite
Chemical plants—Equipment
Corrosion and anti-corrosives
Corrosion resisting materials
Rubber lining
Steel, Stainless
Stoneware

ACID tanks

See also
Acid resisting materials

ACIDITY

Position of two alicyclic hydrocarbons in the acidity series. R. D. Kleene and G. W. Wheland. bibliog Am Chem Soc J 63:3321-2 D '41

See also
Hydrogen ion concentration

ACIDS

Acid catalyzed hydrolysis of ethyl esters of aliphatic acids. H. A. Smith and J. H. Steele. Am Chem Soc J 63:3466-9 D '41

Acids and bases; a collection of papers. N. F. Hall and others. 103p $1 Journal of chemical education, Easton, Pa. '41

Acids and bases; their relationship to oxidizing and reducing agents. W. F. Luder. bibliog J Chem Educ 19:24-6 Ja '42

Effect of dielectric constant on acid-base equilibria. M. Kilpatrick. bibliog Chem R 30:159-69 Ap '42

Thermal properties of mixed acids; enthalpy chart. C. McKinley, jr. and G. G. Brown. bibliog il Chem & Met Eng 49:142-4 My '42

See also
Acid industries
Neutralization
Wool, Effect of acids on
also names of acids, e.g.
Acetic acid
Hydrochloric acid
Nitric acid
Phosphoric acid
Sulfuric acid

Analysis

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

Use of phenylhydrazine to characterize organic acids. G. H. Stempel, jr. and G. S. Schaffel. Am Chem Soc J 64:470-1 F '42

Bibliography

Bibliography of nomographs dealing with acids. R. Myllynen and D. S. Davis, comps. Chem & Eng N 20:56 Ja 10 '42

ACIDS, Fatty

Approximate computation of mixed glycerides present in natural fats from the proportions of their component fatty acids. T. P. Hilditch and M. L. Meara. bibliog Soc Chem Ind J 61:117-25 Ag '42

Branched-chain fatty acids; synthesis of 17-methyloctadecanoic acid. J. Cason. bibliog Am Chem Soc J 64:1106-10 My '42

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

ACIDS, Fatty—*Continued*

Extraction of fatty acids from rosin acid; fatty acid mixtures by means of liquid propane. A. W. Hixson and A. N. Hixson. bibliog il diags Am Inst Chem Eng Trans 37:927-54 D '41; Abstract. Oil Paint & Drug Rep 140:81 N 10 '41; Discussion. Am Inst Chem Eng Trans 37:954-7 D '41

Fatty acids. J. E. Good. il Soap & San Chem 18:19-22+ My '42

Fatty acids and glycerides of solid seed fats; Shorea robusta kernel fat. T. P. Hilditch and Y. A. H. Zaky. Soc Chem Ind J 61:34-6 F '42

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38:891-930 O '42

Long-chain acids containing a quaternary carbon atom. A. J. Birch and R. Robinson. Chem Soc J p488-97 Ag '42

Milk fats from cows fed on fresh pasture and on ensiled green fodder; observations on the component fatty acids. T. P. Hilditch and H. Jasperson. bibliog Soc Chem Ind J 60:305-10 D '41

Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64:2144-6 S '42

Use of fatty acids in insecticidal aerosols. W. N. Sullivan, L. D. Goodhue and J. H. Fales. Science 94:444-5 N 7 '41

See also

Acetic acid
Formic acid
Linoleic acid
Propionic acid
Stearic acid

Analysis

Fatty acid determination; abstract. J. Grossfeld. Soap & San Chem 18:58 Mr '42

Fatty acid determination; abstract. G. Kedvessy. Soap & San Chem 18:60 Jl '42

Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

ACIDS, Organic

Acids and bases in organic chemistry. D. Davidson. J Chem Educ 19:154-60 Ap '42

Activity coefficients of the undissociated part of weak acids; oxalic acid. W. D. Larson and W. J. Tomsicek. bibliog Am Chem Soc J 63:3329-31 D '41

Boiling points of *n*-alkyl acids. W. O. Pool and A. W. Ralston. bibliog(56 references) Ind & Eng Chem 34:1104-5 S '42

Identification of organic acids by the use of *p*-bromobenzyl pseudothiuronium bromide. B. T. Dewey and H. G. Shasky. Am Chem Soc J 63:3526-7 D '41

Indicator method of classifying acids and bases in qualitative organic analysis. D. Davidson. bibliog J Chem Educ 19:221-6 My '42; Correction. 19:532 N '42

Partition ratios of some organic acids between water and ethyl ether. O. C. Dermer, W. G. Markham and H. M. Trimble. Am Chem Soc J 63:3524-5 D '41

Use of phenylhydrazine to characterize organic acids. G. H. Stempel, jr. and G. S. Schaffel. Am Chem Soc J 64:470-1 F '42

See also

Acids, Fatty
Amino acids
Carboxylic acids
Glutamic acids

ACKERMANN, Frederick, 1872-1942

Sketch. por East Underw 43:21 My 1 '42

ACME steel company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:598 S 19 '42

Thumbnail stock appraisal. Mag of Wall St 69:146 N 15 '41

ACORNS

Study acorns as oil source. Soap & San Chem 18:61 Je '42

ACOUSTIC filters. See Sound filters

ACOUSTIC impedance

Acoustic impedance measurement. H. J. Sabine. bibliog il diags Acoustical Soc Am J 14:143-50 O '42

Acoustic impedance of porous materials. L. L. Beranek. diags Acoustical Soc Am J 13:248-60 Ja '42

ACOUSTIC meters. See Sound—Measurement

ACOUSTIC patents

Review of acoustical patents. H. A. Erf. diags Acoustical Soc Am J 13:326-9 Ja '42 [cont quarterly]

ACOUSTICAL society of America

Acoustical society and noise abatement. P. E. Sabine. bibliog Acoustical Soc Am J 13:207-10 Ja '42

Program of the twenty-sixth meeting, with abstracts of papers. Acoustical Soc Am J 13:330-6 Ja '42

Program of the twenty-seventh meeting; abstracts of papers. Acoustical Soc Am J 14:126-30 Jl '42

ACOUSTICS. See Sound

ACOUSTICS, Architectural

Acoustics of buildings, including acoustics of auditoriums and soundproofing of rooms. F. R. Watson. 3d ed 171p $3 Wiley '41

Advances in acoustical treatment at new NBC studios; illustrations and plans. Electronics 15:34-5 Mr '42

Compact direct reading reverberation meter. E. S. Seeley. il diags Soc Motion Picture Eng J 37:557-68 D '41

Modern music recording studio; action of convex wood splays. M. Rettinger. bibliog il Soc Motion Picture Eng J 39:186-94 S '42

Performance of broadcast studios designed with convex surfaces of plywood. C. P. Boner. il Acoustical Soc Am J 13:244-7 Ja '42

Perturbation of sound waves in irregular rooms. R. H. Bolt, H. Feshbach and A. M. Clogston. bibliog Acoustical Soc Am J 14:65-73 Jl '42

Polycylindrical diffusers in room acoustic design. J. E. Volkmann. il diags Acoustical Soc Am J 13:234-43 Ja '42

Practical acoustics and planning against noise. H. Bagenal. 140p $2.50 Chemical pub. co. '42

See also

Sound absorbent materials
Soundproofing

ACOUSTICS of music. See Music—Acoustics and physics

ACRIDINE

Chemotherapeutic studies in the acridine series; the chloroaminoacridines. F. R. Bradbury and W. H. Linnell. Chem Soc J p377-81 Je '42

ACROLEIN

Hydration of unsaturated compounds; acrolein and acrylic acid. D. Pressman and H. J. Lucas. Am Chem Soc J 64:1953-7 Ag '42

ACRYLATES

Copolymerization of alkyl acrylates and alkyl maleates; some kinetic studies on copolymerization. C. S. Marvel and R. L. Frank. Am Chem Soc J 64:1675-8 Jl '42

ACRYLIC acid

Hydration of unsaturated compounds; acrolein and acrylic acid. D. Pressman and H. J. Lucas. Am Chem Soc J 64:1953-7 Ag '42

Restricted rotation in aryl olefins; β-bromo-β-(2-alkoxynaphthyl)-α-alkylacrylic acids. R. Adams, L. O. Binder and F. C. McGrew. bibliog Am Chem Soc J 64:1791-4 Ag '42

Restricted rotation in aryl olefins; preparation and resolution of β-chloro-β-(2-methoxy-4,6-dimethyl-5-chlorophenyl) -α- methylacrylic and the corresponding acrylic acid. R. Adams and W. J. Gross. bibliog Am Chem Soc J 64:1786-90 Ag '42

ACRYLIC resins. See Resinous products

ACRYLONITRILE

Chemistry of acrylonitrile; cyanoethylation of active methylene groups. H. A. Bruson. bibliog Am Chem Soc J 64:2457-61 O '42

ACRYLONITRILE—*Continued*

Limits of inflammability of acrylonitrile in air. G. W. Jones, R. E. Kennedy and G. S. Scott. diags U S Bur Mines Rep of Invest 3597:1-6 '42

Toxicology of acrylonitrile (vinyl cyanide). H. C. Dudley and P. A. Neal. bibliog diags J Ind Hygiene 24:27-36 F '42

ACTIONS and defenses

Informer socked; Arnold's asking court to throw out citizen's $315,000 case against contractors in Pittsburgh. Business Week p40-1 Mr 7 '42

ACTIVATION

Activation of dicalcium phosphate for the chromatographic determination of carotene. L. A. Moore. Ind & Eng Chem Anal ed 14:707-8 S 15 '42

Empirical correlation of the activation energies of gaseous unimolecular reactions with vibrational frequencies. P. Fugassi and E. Warrick. bibliog J Phys Chem 46:630-9 Je '42

Exchange reaction between simple alkyl iodides and iodide ion. H. Seelig and D. E. Hull. bibliog diags Am Chem Soc J 64:940-8 Ap '42

Halogenation of phenolic ethers and anilides; some Arrhenius activation energies. B. Jones. Chem Soc J p418-20 Jl '42

Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42

Mechanism of processes initiated by excited atoms; the quenching of excited sodium. K. J. Laidler. bibliog J Chem Phys 10:34-42 Ja '42

See also

Atoms
Carbon, Activated
Catalysis
Radioactivity

ACTIVITY coefficients

Activity coefficients of rubidium and cesium sulfates in aqueous solution at 25°. H. H. Cudd and W. A. Felsing. Am Chem Soc J 64:550-1 Mr '42

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

Activity coefficients of strontium chloride by an isopiestic method. B. A. Phillips, G. M. Watson and W. A. Felsing. bibliog diags Am Chem Soc J 64:244-7 F '42

Activity coefficients of the undissociated part of weak acids; oxalic acid. W. D. Larson and W. J. Tomsicek. bibliog Am Chem Soc J 63:3329-31 D '41

Determination of the activity coefficients of the methylamine hydrochlorides from freezing point data. J. H. Jones, F. J. Spuhler and W. A. Felsing. bibliog diag Am Chem Soc J 64:965-8 Ap '42

Secondary ionization and activity coefficients of selenic acid. R. W. Gelbach and G. B. King. bibliog Am Chem Soc J 64:1054-7 My '42

Thermodynamics of aqueous solutions of potassium chloride at temperatures from 15-45° from e. m. f. measurements on cells with transference. W. J. Hornibrook, G. J. Janz and A. R. Gordon. bibliog diag Am Chem Soc J 64:513-16 Mr '42

Thermodynamics of bi-univalent electrolytes; the activity coefficients of lead bromide from 5 to 40°. R. G. Bates. bibliog Am Chem Soc J 64:1136-9 My '42

Use of the *h* and *h'* functions in calculating the activity coefficients of strong electrolytes; dependence of the activity and activity coefficient on the concentration units. W. G. Eversole and T. F. Hart. J Phys Chem 46:555-61 My '42

Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

ACTORS and actresses

See also

Moving picture actors and actresses

ACTUARIAL society of America

Annual meeting, New York, May 14-15. East Underw 43:8 My 22 '42; Nat Underw (Life ed) 46:4-5 My 22 '42; Weekly Underw 146:1130 My 16 '42

ACYL peroxides. See Peroxides

ACYLATION

Acylation of 1,4-dimesityl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:1375-7 Je '42

Acylation of the di-enolate of 1,4-dimesitylbutanedione-1,4. R. E. Lutz, W. G. Reveley and V. R. Mattox. Am Chem Soc J 63:3171-4 N '41

Acylation of the di-enolate of 1,4-dimesityl-2-phenylbutanedione-1,4. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3175-8 N '41

Condensations; the acylation of the anions of certain alkyl esters with phenyl esters; a new method for the preparation of ethyl propionylacetate and certain related β-keto esters. B. Abramovitch and C. R. Hauser. bibliog Am Chem Soc J 64:2271-4 O '42

Condensations; various acylations and alkylations of the sodium enolates of aliphatic esters; methods for the syntheses of α,α-disubstituted β-keto esters and of certain other compounds. B. E. Hudson, jr. and C. R. Hauser. bibliog Am Chem Soc J 63:3156-62 N '41

Friedel-Crafts acylations of some sterically hindered alkylbenzenes. G. F. Hennion and S. F. deC. McLeese. Am Chem Soc J 64:2421-2 O '42

Insecticidal properties of 1,3-indandiones; effect of acyl groups. L. B. Kilgore, J. H. Ford and W. C. Wolfe. bibliog Ind & Eng Chem 34:494-7 Ap '42

ADAMS, Charles Edward, 1881-

Portrait. Business Week p34 D 13 '41

ADAMS, John Quincy, 1767-1848

America and the future. por Fortune 25:92-3 My '42

ADAMS express company

Annual report. Comm & Fin Chr 155:257 Ja 17 '42

ADANSONIA digitata. See Baobab

ADDITION compounds

Addition compounds of tetrahydrothiopyran. H. J. Worth and H. M. Haendler. bibliog Am Chem Soc J 64:1232-3 My '42

Addition of hydrogen fluoride to the triple bond. A. V. Grosse and C. B. Linn. bibliog diag Am Chem Soc J 64:2289-92 O '42

Bis(amino acid) derivatives; diglycine halogen acid addition products. W. S. Frost. Am Chem Soc J 64:1286-7 Je '42

Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42

Halogen addition to ethylene derivatives. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:697-716 Mr '42

Molecular surface energy of sulfur dioxide addition compounds. J. R. Bright and J. J. Jasper. bibliog Am Chem Soc J 63:3486-8 D '41

ADDITIONAL living expense insurance. See Insurance, Additional living expense

ADEL precision products corporation

How Adel bucked big time competition selling to the aircraft industry. Sales Management 50:36-7 Ap 20 '42

ADENINE

Ultraviolet absorption spectra of nitrogenous heterocycles; effect of *p*H and irradiation on spectra of isoguanine and 2-hydroxy-6,8-diaminopurine. M. M. Stimson. bibliog Am Chem Soc J 64:1604-5 Jl '42

ADENYLIC acid

Constitution of yeast ribonucleic acid; synthesis of yeast adenylic acid. G. R. Barker and J. M. Gulland. Chem Soc J p231-2 Ap '42

ADHESION

Adhesion and the action of adhesives; a neglected problem of physical chemistry. J. J. Bikerman. Chem Age (Lond) 47:186-7 Ag 22 '42

Amontons' law, traces of frictional contact, and experiments on adhesion. R. Schnurmann. bibliog il J Ap Phys 13:235-45 Ap '42

Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

Energy relations of the surfaces of solids: spreading pressure as related to the work of adhesion between a solid and a liquid. W. D. Harkins and H. K. Livingston. diags J Chem Phys 10:342-56 Je '42

Investigation of the factors governing the adhesion of tin-base bearing metals. W. T. Pell-Walpole, J. C. Prytherch and B. Chalmers. Metal Prog 42:438+ S '42

ADHESIVE tape

Minnesota Mining: growth company. K. Brandon. Barron's 22:18 Je 8 '42

Versatile tape; many new war uses. Business Week p55-6 Ja 24 '42

Manufacture

Industrial tape corp. heats its new building with high temperature hot water district heating system. J. F. Kern, jr. il Heat & Ven 39:108-12 Ja '42

Testing

Method for the testing of adhesive tape. W. C. Geer and W. B. Wescott. bibliog il diags Am Soc T M Proc 41:1217-30 '41; Same. Rubber Age 49:241-7 Jl '41

Testing adhesiveness of gummed tape. C. G. Weber. il Mod Packaging 15:66, 68 D '41

ADHESIVES

Adhesion and adhesives, with special reference to anti-scatter treatments for windows. B. Butterworth. bibliog Chem & Ind 61:339-41, 350-1 Ag 8-15 '42

Adhesion and the action of adhesives; a neglected problem of physical chemistry. J. J. Bikerman. Chem Age (Lond) 47:186-7 Ag 22 '42

Adhesives for bombings and bombers. Mod Packaging 15:39 My '42

Evaluation of methocel as a pigment adhesive for paper coatings. R. M. Upright, M. Kin and F. C. Peterson. bibliog Paper Tr J 114:36-40 Ja 8 '42

Methylcellulose adhesives; abstract. K. Miksch. Chem & Met Eng 48:131 D '41

New adhesives for paper clay coatings; Mazein. C. W. Stewart. Pulp & Pa of Can 43:333 Mr '42

Soybean protein; adhesive strength and color. A. K. Smith and H. J. Max. bibliog Ind & Eng Chem 34:817-20 Jl '42

Special adhesives in Germany. Chem Age (Lond) 46:179 Ap 4 '42

Supplementary order no. M-15-f restricting the use of rubber cements and adhesives. Rubber Age 51:404 Ag '42; Same. India Rubber W 106:603 S '42

Testing of varnishes for use in conjunction with anti-scatter fabrics. H. M. Llewellyn. Soc Chem Ind J 61:60-3 Ap '42

War brings problems in use of adhesives. L. Eickstedt. il Food Ind 14:47-9 Ap '42

See also

Cements
Gelatin
Glue
Mortar
Mucilage
Packaging materials
Resinous products—Adhesives

ADIPIC acid

Formation of adipic acid by the oxidative degradation of the diaminocarboxylic acid derived from biotin. K. Hofman, D. B. Melville and V. du Vigneaud. Am Chem Soc J 63:3237-8 N '41

ADJUDICATION, Administrative. See Administrative law—Adjudication

ADMINISTRATION, Public

Administrative procedure; a practical handbook for the administrative analyst. C. Glaser. 207p bibliog(p202-4) $3; pa $2.50 Am. council on public affairs, Washington, D.C. '41

Administrative regulation of private enterprise. J. P. Horlacher, ed. Ann Am Acad 221:1-191 My '42

Land and power administration of the Central Valley project. M. R. Goodall. bibliog map J Land & Pub Util Econ 18:299-311 Ag '42

Library classification for public administration materials. S. H. Glidden and D. Marchus. 512p bibliog(pxii-xiv) $6 Public administration service, Chicago '42

Organization for national defense. W. Coy. Advanced Management 6:145-8 O-D '41

Public agencies in the postwar period. G. G. Lentz. Ann Am Acad 222:148-51 Jl '42

Sixth annual Institute of government proceedings, June 23-28, 1941, University of Washington. 102p Bur. of governmental research, Univ. of Washington, Seattle '41

Staff duplication and incentives to staff economy. J. M. Juran. Advanced Management 7:102-7 Jl-S '42

Suggestions for adapting the Glidden and Marchus index for the subject files of a taxpayers' research organization. M. A. Johnston. Special Lib 33:116-20 Ap '42

Work planning in government. A. Solem, ed. Advanced Management 7:133-40 Jl-S '42

See also

Administrative law
Agricultural administration
Civil service
County government
Federal government
Government employees
Highway administration
Local government
Municipal employees
Municipal government
Public health administration
Public officials
Public utilities commissions
Social security board
Social work
State employees
State governments
United States—Executive departments

Bibliography

Studies in economy and efficiency in government. 89p Tax foundation, New York '41

ADMINISTRATIVE law

Administrative law; its growth, procedure and significance. R. Pound. 138p $1.85 Univ. of Pittsburgh press, Pittsburgh '42

Administrative regulation; a study in representation of interests. A. Leiserson. 292p $3 Univ. of Chicago press '42

Canadian boards at work. J. Willis, ed. 190p $2 Macmillan co. of Canada, Toronto '41

Code of administrative procedure. C. McFarland. Ann Am Acad 221:160-9 My '42

Confining administrative regulations within the law. O. P. Field. Ann Am Acad 221:108-14 My '42

Federal administrative law. F. T. vom Baur. 2v $15 Callaghan '42

Federal trade law and practice before the Federal trade commission, United States District courts, United States Circuit courts of appeals and United States Supreme court in Federal trade commission cases. H. W. Beer. 999p $15 for sale by Baker, Voorhis, 30 Broad st, N.Y. '42

If men were angels; some aspects of government in a democracy. J. Frank. 380p $3.75 Harper '42

Illinois administrative procedure. H. G. Fins. 465p $7.50 Current law pub. co, 4536 Ravenswood av, Chicago '42

Interest representation in administrative regulation. A. Leiserson. Ann Am Acad 221:78-86 My '42

Legislative considerations in organizing regulatory agencies. E. O. Stene. Ann Am Acad 221:49-55 My '42

Limitations upon the delegation of power by the federal legislature. R. L. Farrington. 103p bibliog(pxiv-xxi) pa $1.50 Catholic univ. of America press, Washington, D.C. '41

ADMINISTRATIVE law—*Continued*

Mandatory hearings in the rule-making process. M. Duane. Ann Am Acad 221:115-21 My '42

Modern government in action. E. S. Griffith. 91p $1 Columbia univ. press '42

Outline of administrative law. A. W. Selverstone. 85 numb l pa $1.50 Academy publications, Brooklyn, N.Y. '41

Should appearances before state commissions be restricted? Pub Util 28:834-6 D 18 '41

Adjudication

Defects and remedies in administrative adjudication. R. L. Redmond. Ann Am Acad 221:138-44 My '42

Judicial function in federal administrative agencies. J. P. Chamberlain, N. T. Dowling and P. R. Hays. 258p bibliog(p235-41) $3 Commonwealth fund, New York '42

Judicial review

Implications of the case of FPC v. Natural gas pipeline company; judicial review theory. W. E. Tucker. Pub Util 30:604-11 O 22 '42

Judicial control of administrative decisions. J. R. Pennock. Ann Am Acad 221:183-91 My '42

Review of administrative acts; a comparative study of the doctrine of the separation of powers and judicial review in France and the United States. A. Uhler. 207p bibliog(p191-8) $3 Callaghan '42

United States Court of appeals for administration. F. F. Blachly and M. E. Oatman. Ann Am Acad 221:170-82 My '42

Mandatory hearings

Mandatory hearings in the rule-making process. M. Duane. Ann Am Acad 221:115-21 My '42

ADMIRALTY

Remedy against U.S. is suit in admiralty; federal court exclusive jurisdiction of tort cases. East Underw 43:27 O 23 '42

ADMIRALTY metal. See Brass

ADOBE

Adobe construction. J. D. Long. (Agric. exp. sta. bul. 472) rev ed 76p Univ. of California, Berkeley '41

ADOPTION

Adopted child deemed after-born child. Trusts & Estates 74:432 Ap '42

Right of adopted child to take by representation. Trusts & Estates 73:568-9 N '41

ADRENALINE

Natural and synthetic inhibitors of choline esterase. H. Waelsch and H. Rackow. Science 96:386 O 23 '42

Synthesis of heavy *dl*-adrenaline. G. R. Clemo and G. A. Swan. pl diag Chem Soc J p395-7 Je '42

ADSORPTION

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42

Adsorption by strontium salts of traces of iron from caustic soda solutions. W. E. Caldwell and C. A. Boyd. bibliog Ind & Eng Chem 34:230-3 F '42

Adsorption of nitrogen and the mechanism of ammonia decomposition over iron catalysts. S. Brunauer, K. S. Love and R. G. Keenan. bibliog Am Chem Soc J 64:751-8 Ap '42

Adsorption of organic compounds; adsorption of ampholytes on an activated charcoal. V. H. Cheldelin and R. J. Williams. bibliog Am Chem Soc J 64:1513-16 Jl '42

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Adsorption of vapors by decolorizing clays and earths; abstract. E. Erdheim. Chem & Met Eng 49:182 F '42

Adsorption of wetting agents by wool. G. C. Le Compte and J. W. Creely. Am Dyestuff Rep 31:121-3 Mr 2 '42

Adsorption potentials at gas-solid interfaces. A. A. Frost. Electrochem Soc Trans 82 (preprint 10):109-13 O '42

Adsorption studies of vapors in carbon packed towers. H. C. Engel and J. Coull. bibliog Am Inst Chem Eng Trans 38:947-64; Discussion. 964-5 O '42

Chromatographic adsorption analysis. H. H. Strain. bibliog diags Ind & Eng Chem Anal ed 14:245-9 Mr 15 '42

Chromatographic analysis in reverse. A. Lowman. Science 96:211-12 Ag 28 '42

Concentration of vitamin A by adsorption. L. A. Swain. Can Chem & Process Ind 25: 684+ D '41

Determination of carbon and hydrogen in bone black and other chars. V. R. Deitz and L. F. Gleysteen. bibliog diags J Research Nat Bur Stand 28:795-805 Je '42

Enzyme action; reduced by narcotics. H. C. Eyster. Science 96:140-1 Ag 7 '42

Heats of wetting for the evaluation of gas-adsorbing coconut carbons. H. W. Stone and R. O. Clinton. bibliog diag Ind & Eng Chem Anal ed 14:131-5 F 15 '42

Isomerization of β-carotene; isolation of a stereoisomer with increased adsorption affinity. A. Polgár and L. Zechmeister. bibliog Am Chem Soc J 64:1856-61 Ag '42

Measuring the specific surface of particulate substances; a water vapor adsorption method. D. Smith and H. Green. bibliog diag Ind & Eng Chem Anal ed 14:382-6 My 15 '42

Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64: 2144-6 S '42

New precipitant for group II ions. S. Gaddis. J Chem Educ 19:327-8 Jl '42

New technique for adsorption studies. J. Coull, H. C. Engel and J. Miller. bibliog diags Ind & Eng Chem Anal ed 14:459-62 Je 15 '42

Phosphatides from soybean oil. M. H. Thornton and H. R. Kraybill. bibliog Ind & Eng Chem 34:625-8 My '42

Photoactivation of adsorption of hydrogen on thorium oxide. A. Luyckx, J. Bodart and G. Rens. bibliog Am Chem Soc J 64:1731-2 Jl '42

Relation of paint properties to surface areas of carbon black. O. J. Brown, jr. and W. R. Smith. bibliog il Ind & Eng Chem 34: 352-5 Mr '42

Relationships between the spreading pressure, adsorption, and wetting. H. H. Rowley and W. B. Innes. bibliog diag J Phys Chem 46: 694-705 Je '42

Some problems in adsorption. J. K. Roberts. 119p bibliog(p115-17) pa $2 Macmillan '40

Sorption of hydrogen by metals; temperature variation experiments. C. W. Griffin. Am Chem Soc J 63:2957-60 N '41

Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

Sorption of water by cellophane. V. L. Simril and S. Smith. Ind & Eng Chem 34:226-30 F '42

Spreading of oils on water; spreading pressures and the Gibbs adsorption relation. W. A. Zisman. bibliog J Chem Phys 9:789-93 N '41

Surface available to nitrogen on bone black and other carbonaceous adsorbents. V. R. Deitz and L. F. Gleysteen. diags J Research Nat Bur Stand 29:191-225 S '42

Theory of adsorption of gases on metals. J Ap Phys 13:222-3 Ap '42

Van der Waals sorption of chlorine by silica gel at low temperatures. L. H. Reyerson and C. Bemmels. J Phys Chem 46:31-5 Ja '42

Van der Waals sorption of gaseous hydrogen chloride, hydrogen bromide, and hydrogen iodide by silica gel. L. H. Reyerson and C. Bemmels. J Phys Chem 46:35-42 Ja '42

See also

Absorption

Carbon, Activated

ADSORPTION apparatus

Adsorption studies of vapors in carbon packed towers. H. C. Engel and J. Coull. bibliog Am Inst Chem Eng Trans 38:947-64; Discussion. 964-5 O '42

Convenient six-tube vapor sorption apparatus; sorption of water vapor by spruce sulfite pulp and cotton linters alpha-cellulose. A. J. Stamm and S. A. Woodruff. bibliog diags Ind & Eng Chem Anal ed 13: 836-8 N 15 '41

ADVERTISEMENTS

Advertising under arms; unusual advertisements; illustrations. Sales Management 50: 22-3 F 1 '42

Anatomy of advertising; an analytical approach to campaign planning and advertisement making; v. 2, Advertisement making. M. Wiseman. 178p $3 Harper '42

Attention; a collection of the advertisements that have been most successful in arresting the attention of newspaper readers. 2v 111p; 111p Bur. of advertising. Am. newspaper publishers assn. New York '41

Black and white, with simple message, for new line of all-steel kitchens. W. W. Smitt. il Ptr Ink 197:18-20 N 28 '41

Cost of getting readers for full-, half-, and bleed-pages. E. L. Deckinger. Adv & Sell 35:25-6 Mr '42

Do they read it? bill inserts; Connecticut light & power company. C. J. Allen. il Elec W 116:1896-1 D 13 '41

Envelopes an advertising medium in old days. E. M. Kelley. il Inland Ptr 108:29-31 F '42

See also

Advertising
Advertising—Dealer helps
Advertising, Mail
Advertising, Point-of-sale
Advertising awards
Advertising cards
Blotters
Calendars
Catalogs
Posters
Sales letters

Books and booklets

Book of rope tricks makes friends for Plymouth Cordage. J. S. Bradford. il Ind Marketing 27:34+ Ap '42

Booklet of fighter planes put out by man who paints 'em. Ptr Ink 200:38 Jl 3 '42

Booklet, posters help theatre operators. Ptr Ink 199:60 Je 19 '42

Bookvertising; with 85 studies, and expert opinion on how to prepare successful bookvertising. H. J. Stoekel, comp. 203p $5 Saybrook house, New York '42

Fighting booklets help in home and front warfare. C. J. Swan. il Ptr Ink 199:16-17+ Je 12 '42

Graphic promotion girds for war. il Ptr Ink Mo 43:40-1+ D '41

How Allis-Chalmers is meeting its wartime advertising task; elaborate brochure and sound motion picture augment product campaigns. G. J. Callos. il Ind Marketing 27: 26-7+ My '42

Our job is to hold our customers; supplying helpful, needed data is Okonite's approach. R. S. Hayes. il Ind Marketing 27:15+ F '42

Ryerson marks hundredth anniversary with wartime reserve. G. D. Crain, jr. il Ind Marketing 27:26-7+ N '42

Sales tool works full time; advertising material interesting and informative, in loose-leaf binder; Grevan lines, inc. il Ptr Ink 200:17 Ag 14 '42

See also
Catalogs

Christmas cards

Christmas cards to help your idea file. il Inland Ptr 110:65-8 O '42

Holiday greetings and books inject the personal element. il Ind Marketing 27:46+ Ja '42

Typographer's Christmas card. G. Bell. Photo Tech 3:15 D '41

Cook books and recipes

Advertisers cooperate in recipe compilation. il Ptr Ink 201:40 O 30 '42

Household hints; recipes on how to use American canned pork. Business Week p40 Jl 11 '42

Copy

See Advertising copy

Coupons

Coupons in advertising prove to be mine of information. P. V. Barrett. il Ptr Ink 200:22+ S 11 '42

Design

See also
Advertisements—
Layout

Hangers

Specimen hanger directed specifically at war business; Nickeloid co., Peru, Ill. il Ind Marketing 27:44+ Ap '42

Headlines

Copy clinic. H. W. Newton. Adv & Sell 35:23 S '42

Copy clinic; new lamps for old. W. J. Weir. Adv & Sell 35:32 My '42

How to write a good advertisement; get attention. V. O. Schwab. il Ptr Ink 197:18-22 N 14 '41

Shall we go barefoot or not? two conflicting advertising headlines. E. Peterson. il Ptr Ink 201:15-16 O 9 '42

Illustrations

See Advertisements, Pictorial

Layout

How to write a good advertisement; get attention. V. O. Schwab. il Ptr Ink 197:18-22 N 14 '41

Kodachrome slides of advertising layouts. R. L. Pepperburg. il diag Am Phot 36:33 S '42

Medal award and honorable mention for technical excellence of visual presentation (layout, art, typography). il Adv & Sell 35:24-7 F '42

Typographic clinic; an object lesson in how to use white space in an ad. R. Cleveland. il Inland Ptr 109:41 Jl '42

Uncovering color faults in layouts for advertising display. A. L. Liversedge. il Inland Ptr 109:41-3 Ag '42

Position

Let's place these five best where they will pull best in a newspaper; Stratoliner contest. W. Laufer. il Inland Ptr 109:58 My '42

Printing

See also
Advertising, Mail—
Postal cards

Rating

Pre-judging pulling power of farm-paper advertisements. il Ptr Ink 198:18-19 Ja 16 '42

Readership

Effect of product interest on advertising readership. M. Harper, jr. il Adv & Sell 35: 34+ O '42

Today's readership of advertising. R. O. Eastman. Ind Marketing 27:25-6+ Ag '42

What the war theme is doing to advertising readership. T. M. Shepard. il Adv & Sell 35:13-15 O '42

Specimens

Advertising in the war; with 50 specimen advertisements. Adv & Sell 35:58-72 N '42

Advertising is teaching conservation. il Ptr Ink 198:14-15 F 20 '42

See also
Advertising awards

Testing

Among my guinea pigs. K. Goode. Adv & Sell 35:50 Ja '42

Coupons in advertising prove to be mine of information. P. V. Barrett. il Ptr Ink 200:22+ S 11 '42

ADVERTISEMENTS—Testing—*Continued*

Crisscross copy testing. W. T. Laing. il Ptr Ink 199:19-21 My 29 '42

Effect of product interest on advertising readership. M. Harper, jr. il Adv & Sell 35:34+ O '42

How to find strongest selling argument for your product; Marlin razor blade advertising; split-run testing. R. Manville. il Ptr Ink 198:16-18+ Mr 13; 28, 30+ Mr 27 '42

Most effective appeal for volume usage of a product; ingenious testing methods employed by Dennison. W. A. Sturgis. il Ptr Ink 200:20-2+ S 4 '42

Pre-tested copy. W. T. Laing. il Ptr Ink 201:14-15+ O 23 '42

Results of pre-test of long-range advertising. W. A. Sturgis. il Ptr Ink 200:16-17 Jl 24 '42

Sales-testing thrives in today's market. F. R. Coutant. Adv & Sell 35:46+ Mr '42

So they can read it in the moonlight! documenting the advertising story. W. T. Laing. il Ptr Ink 201:16-17+ N 6 '42

Typography

Five best Stratoliner ads selected by H. Lauck. Inland Ptr 108:50 Mr '42

Five best Stratoliner ads selected by J. Thuringer. il Inland Ptr 109:42 Ap '42

Hand lettering tells a story for advertisers. C. N. Allen. il Ptr Ink 198:16-17 F 27 '42

Hew to the copy, widows falling as they may! D. B. Fullerton. Inland Ptr 109:62-3 My '42

Let's place these five best where they will pull best in a newspaper; Stratoliner contest. W. Laufer. il Inland Ptr 109:58 My '42

Review and forecast. J. Boday. il Adv & Sell 35:159-60, 162 F '42

Specimen review. J. L. Frazier. Published in monthly numbers of Inland printer

Typographic clinic. Published in monthly numbers of Inland printer

ADVERTISEMENTS, Classified

Classified ads for consumer credit. H. L. Shattuck. Bankers M 143:552 D '41

How to pack pull into your classified advertising copy. T. H. Thompson. il Sales Management 50:32-6 Je 1; 66, 68-9 Je 15 '42

Yankee traders and lonely hearts. H. M. Robinson. Adv & Sell 35:32-3 Mr '42

Want ads

After hours; Wanted, copy-idea man. J. L. Wilson. Ptr Ink 197:6 N 28 '41

Help wanted, female. il Ptr Ink 201:13 0 23 '42

Job-ad ban; Pittsburgh papers discourage labor pirating in classified columns. Business Week p62-3 D 27 '41

Wanted, men over 50! advertisement turns up score of experienced inspectors. L. K. Urquhart. il Factory Management 100:76-7+ F '42

ADVERTISEMENTS, Pictorial

Artwork cliches; check list of 40 out worn illustrations. R. J. Cooke. Ptr Ink 201:17 O 23 '42

Cutting corners for economy is better than cutting cuts; reader interest is lowered with curtailed use of illustrations in magazines, sales literature. C. N. Tunnell. il Inland Ptr 109:30-2 Jl '42

Thank Ripley! G. L. Sumner. il Adv & Sell 35:16 Jl '42

See also

Advertising art
Advertising characters
Color in advertising
Posters
Show cards

Cartoons

Big-name cartoonists in advertising. il Adv & Sell 34:14-15 D '41

Conservation, with a smile. il Ptr Ink 199:40 Je 12 '42

Hands

Human hand visualizes functions of Denison "Hydroilics". C. E. Brown. il Ind Marketing 27:22-3 N '42

Package pictures

Will 1942 events affect identity of your package? il Mod Packaging 15:31-4 F '42

Photographs

Frozen action photos gain attention for Pratt & Whitney in lieu of case studies. E. C. Shultz. il Ind Marketing 27:28-9+ Jl '42

How to get action photos for wartime advertising. J. A. Murphy. il Adv & Sell 35:30 S '42

Salad with milk; and Billions of rods. E. Quigley. il Am Phot 36:14-15 F '42

Winged horse; a montage. E. Lopez. il Am Phot 36:22 Ag '42

ADVERTISERS

Changes in advertising accounts. Published in monthly numbers of Advertising and selling

How advertisers may help the war effort, economically. F. G. Rudge and G. Salomon. il Ptr Ink 198:16-17 Mr 6 '42

Directories

National industrial advertisers association membership roster. Ind Marketing 27:103-57 O '42

ADVERTISING

Advertising, first aid to business. 237p $2.50 Consolidated reporting co, New York '41

Advertising in 1942 will be different; defense theme, patriotic appeal, institutional advertising, stockholders. C. Norton. il Ptr Ink 197:23-7 D 5 '41

Anatomy of advertising; an analytical approach to campaign planning and advertisement making. M. Wiseman. 2v 226p;178p ea $3 Harper '42

ANA-AAAA analyze advertising's place in defense & peace economy. C. R. Palmer and others. Sales Management 49:78, 80 D 1 '41

Great day coming; advertising new and improved products. J. O'Shaughnessy. Ptr Ink 201:84 O 9 '42

Greatest thing we must learn is to work together. G. E. Cole. Adv & Sell 35:15 N '42

Heavy advertising volume sure to follow after this war; product differentiation. L. D. H. Weld. Ptr Ink 200:26, 28 Ag 7 '42

How advertising can meet today's critical challenges. J. W. Young. Adv & Sell 34:102+ D '41

How industrial advertisers are putting printed promotion to work. R. Hanes. il Ind Marketing 27:36-7+ N '42

If you looked for a miracle; Hot Springs advertising war council may prove disappointing, but its accomplishments were substantial. C. B. Larrabee. Ptr Ink 197:13-15+ N 21 '41

Impact of defense on advertising. Adv & Sell 34:17-31 D '41

Let's call it consumer information! W. Fanning. Ptr Ink 199:21+ Je 12 '42

Marketing under war conditions. E. H. Gault, ed. p 1-13 pa $1 Univ. of Michigan, School of business administration, Ann Arbor '42

Paul West reveals advertising plans of A.N.A. members. Ptr Ink 199:47 My 1 '42

Pennywise advertising. R. Dickinson. Banking 34:26-7+ Ja '42

Press and advertising. C. L. Allen. Ann Am Acad 219:86-92 Ja '42

Proceedings of the first Advertising and sales promotion conference held at the Ohio state university, April 30-May 1, 1942. 120p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '42

Proof; 17 actual case histories; reprint of Eastern industrial advertisers study of companies that stopped advertising. Ptr Ink 199:13-15+ My 15 '42

Real mission of advertising emphasized by war. W. E. McFee. il Ptr Ink 198:19-20+ Mr 6 '42

Some views of Mr Batten. E. B. Smith. Adv & Sell 34:54, 56+ D '41

ADVERTISING—*Continued*

This, or silence; future of advertising depends on our ability to establish a fundamentally different concept of its nature and use. H. A. Batten. Ptr Ink 197:11-13, 61-4 N 14 '41; Abstract. Steel 109:102-3 D 8 '41

Tomorrow; advertising man, about to enter U.S. army, looks through figurative crystal. R. Lenhart. Ptr Ink 201:31-2 O 16 '42

What every advertising man must know after the war. A. W. Boyer. Ptr Ink 201:50+ O 16 '42

See also

Advertisements
Advertising agencies and other headings beginning Advertising
Bank advertising
Business
Catalogs
Color in advertising
Containers
Electric signs
Employment systems—Advertising aids
Government advertising
House organs
Legal advertising
Merchandizing
Moving pictures in advertising
Posters
Premiums (merchandizing)
Radio advertising
Sales letters
Show windows
Signs
Slogans
State advertising

also subdivision Advertising under special subjects, e.g.

Automobile industry and trade
Beer
Cigaret industry and trade
Cooperative associations
Department stores
Electric utilities
Food industry and trade
Gas industry
Insurance
Insurance, Life
Insurance agents
Insurance companies
Motor bus lines
Oil companies
Printing trade
Railroads
Retail trade
Securities
Shoes, Rubber
Technical products
Trade marks
War savings stamps

Architects, Appeal to

Architecture meets advertising; views of practicing architects (cont). il Arch Rec 90:100-1 N; 100-1 D '41

In creating a sample kit; Marsh wall products. M. Seibert. il Ptr Ink 198:32, 35 F 27 '42

Bibliography

Books for the advertising man. A. T. Falk. rev ed 35p pa $1 Bur. of research and education, Advertising federation of Am, 330 W. 42d st, New York '42

Books on advertising and publishing. G. U. Cleeton, comp. 36p Carnegie inst. of technology, Pittsburgh '41

Censorship

See Advertising—Laws and regulations

Chain stores, Appeal to

How to promote the sale of your wares through the dime stores. F. W. Nye. il Sales Management 51:22-4 S 15 '42

Check lists

See also

Radio advertising—Check lists

Continuity

Ads during war keep friends after. G. A. Kelly. Comm & Fin Chr 155:1027 Mr 12 '42

After hours; advertise or be forgotten. T. H. Thompson. Ptr Ink 200:64 Jl 3 '42

Brand strength is strong element in American way of life. A. H. Deute. Ptr Ink 197:13-16 D 26 '41

Brands out of the limelight. C. Rheinstrom. Adv & Sell 35:52 My '42

Campaign ready for post-war release: Barrington Hall coffee. il Ptr Ink 201:26+ O 30 '42

Continental can co. to sustain its advertising in national consumer magazines. C. C. Conway. Sales Management 49:78 D 1 '41

Food advertiser's job now same as in peace; continuous advertising of California Calavos. il Ptr Ink 200:32, 37 Ag 28 '42

Gifford-Wood advertising has been continuous for 128 years. I. W. Tyson. il Ind Marketing 27:22-4 Mr '42

Manufacturer group urges continued advertising. Ptr Ink 199:52 Je 26 '42

Merchandising show must go on. F. H. Meeks. il Mod Packaging 16:73-5+ O '42

Priorities, yes, but this aluminum advertiser still keeps energetically at it. R. L. Pritchard. il Ptr Ink 200:18-19+ Jl 31 '42

Proof; 17 actual case histories; reprint of Eastern industrial advertisers study of companies that stopped advertising. Ptr Ink 199:13-15+ My 15 '42

Real problems facing advertising. Adv & Sell 34:22-7 D '41

Retail customers shun cheaper, unknown brands during wartime. M. F. Allison. Sales Management 51:34+ N 1 '42

Study in continuity and cumulative effect; case history charts of eight national advertisers. R. M. Oliver. Ptr Ink 198:26, 31-2 Mr 6 '42

Ten men in Washington; or, the fallacies of 1942. B. Williams. il Ptr Ink 200:19-20 S 18 '42

When priorities pinch, advertising can be continued profitably; Mirro aluminum experience. R. L. Pritchard. il Ptr Ink 197:13-16 D 12 '41

See also

Advertising and war
Advertising appropriations

Contractors, Appeal to

What engineers and contractors want in advertising copy; eight basic points. C. S. Wilkinson. il Ind Marketing 27:23-5+ Je '42

Copy

See Advertising copy

Cost

Cost of getting readers for full-, half-, and bleed-pages. E. L. Deckinger. Adv & Sell 35:25-6 Mr '42

See also

Advertising—Rates

Coverage

Controlled techniques for magazine audience measurement. D. B. Lucas. il Adv & Sell 35:16-17, 114+ N '42

See also

Radio advertising—Coverage

Dealer cooperation

Advertising programs for products with selected distribution. J. D. Scott. 112p pa $1.50 Harvard univ, Graduate school of business administration, Soldiers Field, Boston, Mass. '42

Specific ways to tie-in national campaign at point of sale; Printers' Ink Monthly special study. il Ptr Ink Mo 43:18-21+ D '41

Dealer helps

Advertising programs for products with selected distribution. J. D. Scott. 112p pa $1.50 Harvard univ, Graduate school of business administration, Soldiers Field, Boston, Mass. '42

American Lady builds strong promotion around perfect fit; Vital dimension plan. il Sales Management 50:59-61 Ja 15 '42

Continues packaged dealer promotion, only service is theme now! Roper gas ranges. il Ptr Ink 201:19 N 6 '42

Displays in a frozen market; Zenith radio corp. il Mod Packaging 16:78+ O '42

Find out what dealers don't like about your advertising! policy of fire insurance advertising manager. J. W. Mason. Ptr Ink 199:23-4+ My 1 '42

Retailers buy this booklet; Bendix home appliances. Ptr Ink Mo 43:24 D '41

See also

Advertising, Point-of-sale

ADVERTISING—*Continued*

Dealers, Appeal to

Jobbers' salesmen remain important when manufacturer is without goods to sell: basic theme in trade press holds their goodwill, Aluminum goods mfg. co. R. L. Pritchard. il Ptr Ink 200:40-1 Jl 3 '42

Making the marketing plan solve your procurement job; simplification of lines and advertising averted priority difficulty and added dealers for Master rule mfg. co. F. Keeler. il Ind Marketing 27:22-3+ My '42

13 ways to keep in touch with the trade, with few or no salesmen. E. Peterson. Ptr Ink 198:22-3, 77-9 F 13 '42; Abstract. Management R 31:94-6 Mr '42

War advertising to dealers is fast finding itself. il Ptr Ink 199:56-9 Ap 10 '42

Wartime repair program; Eastman kodak company. il Ptr Ink 198:49 Ja 30 '42

We want you to sit in on our planning board; dealer suggestion contest; Barlow and Seelig washers and ironers. J. S. Morris. il Ptr Ink 200:21+ S 18 '42

When dealers can't get the product; Electric vacuum cleaner co. advertises Premier's service program. E. A. Hamala. il Ptr Ink 198:102+ Ja 2 '42

See also
Advertising, Point-of-sale

Economic aspects

Advertising actually does reduce selling cost; here's proof. L. D. H. Weld. Ptr Ink 199: 17-18 Je 26 '42

Advertising is powerful anti-inflation influence. L. D. H. Weld. Ptr Ink 201:20, 66 O 9 '42

Advertising must survive as thriving economic force. L. Henderson. Ptr Ink 197:9-12+ N 21 '41; Excerpts. Sales Management 49:80 D 1 '41; Abstract. Adv & Sell 34:16+ D '41

Economic effects of advertising. N. H. Borden. 988p $5 Richard D. Irwin, inc, 322 S. Michigan av, Chicago '42; Review, by L. D. H. Weld. Ptr Ink 198:27-8+ Ja 2 '42; Review, by E. H. Gardner. Ptr Ink 199:19-20 Ap 3 '42; Review. Business Week p34-6 Ja 3 '42

Economic role of advertising. Sales Management 50:64+ Ja 15 '42

How much does advertising pay? N. H. Borden. Pub Util 29:112-15 Ja 15 '42

Letting markets crumble is similar to dynamiting machinery, burning plants; is it patriotic to advertise in wartime? J. M. Cleary. Ptr Ink 199:11-12+ Ap 3 '42

Long-range viewpoint in current advertising. W. Buchen. Ind Marketing 27:30-3+ Ap '42

Major findings from the Harvard study; excerpts from answers to 8 questions on advertising's place in American economy. Adv & Sell 35:30, 32, 34+ Ja '42

Ralph Starr Butler calls for intelligent approach in justifying advertising. Ptr Ink 198:13-14+ Mr 13 '42; Discussion. F. G. Rudge. 199:35-6 Ap 3 '42

Rôle of advertising. Economist 142:536 Ap 18 '42

Social and economic role of advertising in a democratic economy. L. D. H. Weld and L. Wells. Ptr Ink 197:64-8 D 5 '41

This habit of economic freedom; reprinted from Newsweek. R. Moley. Ptr Ink 197: 11-14 D 5 '41

Tobacco's "big three" testify on advertising. H. M. Wootten. il Ptr Ink Mo 43:5-8, 51-2 D '41

What advertising thinks about itself; ANA-AAAA convention; selected excerpts. Adv & Sell 34:13+ D '41

Why Department of commerce believes in wartime advertising. J. H. Morse. Ind Marketing 27:35-6+ Ag '42

Employees, Appeal to

Ad managers assume leadership in worker morale programs; posters, house organs, booklets. il Ind Marketing 27:28-32 My '42

It pays to advertise to your own employees; Loft candy. G. Frederick. il Mod Packaging 15:52-4+ Ag '42

Making war workmen proud of their jobs is victory essential. il Ptr Ink 199:69-70, 72-4 Ap 10 '42

New war workers assimilated through paid advertising; Gisholt machine co. il Ptr Ink 199:26 Je 19 '42

Production promotion is today's task for advertising men. il Ind Marketing 27:32-4 Je '42

Stockholders, employes help Standard Brands sell. Sales Management 50:39 Ja 1 '42

Engineers, Appeal to

What engineers and contractors want in advertising copy; eight basic points. C. S. Wilkinson. il Ind Marketing 27:23-5+ Je '42

Evacuees, Appeal to

Shopping by mail; special edition of Merced sun-star for Japanese evacuees. Business Week p29 Ag 15 '42

Farmers, Appeal to

Does advertising in farm magazines pay? il Sales Management 50:25 Ja 1 '42

Farm co-ops and advertising. map Adv & Sell 35:48 Jl '42

Farm market offers tailor-made opportunity. F. B. Nichols. Ptr Ink 197:25, 28-9 N 28 '41

Pre-judging pulling power of farm-paper advertisements. il Ptr Ink 198:18-19 Ja 16 '42

Service advertising helps farmers at war; Texas company gives facts on care of farm machinery. C. J. Swan. il Ptr Ink 199: 50-1 My 8 '42

See also
Advertising mediums
—Farm papers

Government attitude

Impact of war on advertising. Adv & Sell 35:19-22 O; 20-1 N '42

Government cooperation

Government and industry form partnership to promote national nutrition plan. J. Murphy. il Ptr Ink 199:17-19+ Je 5 '42

Impact of war on advertising; the U.S. nutrition project. Adv & Sell 35:17-18 Jl '42

Industries, Appeal to

Advertises to share technical knowledge in all-out effort; MacDermid, incorporated. W. D. MacDermid. il Ptr Ink 198:21 Mr 6 '42

Advertising plan (who will sponsor it?) to cause business men to go to war spiritually. J. T. Chirurg. il Ptr Ink 199:13-15 My 29 '42

Awards for advertisements appearing in business publications. il Adv & Sell 35:18-20 F '42

Clearly defined sales and advertising tasks guide Dow's marketing; departmental sales groups, business papers, and general media advertising. R. A. Brewer. il Ind Marketing 27:18-19+ Je '42

Cost and results of Cochrane's direct mail for sales promotion; campaigns for building prestige, prestige plus inquiries, and for inquiries alone. S. D. Distelhorst. il Ind Marketing 26:21-3+ D '41

Daring change in distribution pattern caused by war conditions; advertising and selling chewing gum to war plants. P. K. Wrigley. il Ptr Ink 200:13-15+ Jl 31 '42

For these serious times, industrial advertiser chooses lighter touch; Gardner-Denver company. B. P. Spann. il Ptr Ink 198:15+ Mr 13 '42

Getting attention in industrial copy. E. Peterson. il Ptr Ink 200:16-17 Ag 28 '42

Good industrial advertising helps men and plants fight this war. V. Van Diver. Sales Management 50:57 F 1 '42

High speed war production brings strong industrial copy theme. il Ptr Ink 198:21-2+ Ja 16 '42

ADVERTISING—Industries, Appeal to—*Cont.*

How industrial advertising can help speed war production. Ptr Ink 198:15, 56 Mr 20 '42

How to improve relations with army post public relations offices; requesting material and approval for use of army data in your advertising. F. W. Pederson. Ind Marketing 27:36+ O '42

Human hand visualizes functions of Denison 'Hydroilics." C. E. Brown. il Ind Marketing 27:22-3 N '42

Increased business paper schedules feature 1942 programs; plans are mixed for direct mail, catalogs, and other sales promotion material but service is the keynote. il Ind Marketing 27:22-5, 100-9 Ja '42

Industrial advertising for victory, and tomorrow. W. D. Murphy. Ind Marketing 27: 13-15+ Ap '42

Industrial advertising switches from competitive to service theme; Parker-Kalon screws. E. Peterson. il Ptr Ink 198:21-2 F 20 '42

Industrial advertising tomorrow. J. H. Van Deventer. Ind Marketing 26:15-16, 54+ D '41

Industrial campaign is built around conservation theme: Houghton leather belting. D. C. Miner. il Ptr Ink 199:28+ Je 26 '42

Industrial copy dons overalls. M. K. Powers. Adv & Sell 35:42 Ap '42

Industrial copy sets pattern in advertising's war effort. il map Ptr Ink 199:21-2+ Ap 10 '42

Industry's war on waste of time, labor and materials exemplified in Disston's campaign; cards instruct in care and use of tools. W. Gebhart. Ptr Ink 198:19-20 F 13 '42

Keep the whistle blowing! Lyon metal products goes after defense orders. il Am Business 11:12-13+ D '41

Launching a war baby; Por-os-way grinding wheel made by dental equipment manufacturer. R. N. D. Arndt. il Ind Marketing 27:20-1+ Ap '42

Markets in 1942 and what to say to them. il Ind Marketing 27:15-18+ Ja '42

Post-war markets being built with human industrial advertising; R. K. LeBlond machine tool co. il Ptr Ink 198:22-3, 56-7 F 27 '42

Switch company advertises its customers; Penn Electric Switch. Ptr Ink 198:60 F 20 '42

Technique for field research to determine the copy theme; talking to users about their problems. W. W. Garey. Ind Marketing 27: 21-2+ Ag '42

This direct mail is geared to industrial selling; Ferranti electric limited. G. A. Brace. il Ptr Ink 198:16-17+ Ja 9 '42

Trend in objectives and methods of industrial advertising. Ind Marketing 27:32-3+ Ja '42

What buyers of electrical equipment want in advertising copy; twenty-one men pass judgment on over 1,000 pieces of advertising. L. W. Dunn. il Ind Marketing 27:18-20, 100-1 F '42

What industrial copy can teach consumer advertising. il Adv & Sell 35:24+ Je '42

See also

Advertising mediums—Trade journals

Equipment industries—Advertising

Machinery industry—Advertising

Institutional copy

See Advertising, Institutional

Jobber cooperation

How oil jobbers use advertising; Armada oil & gas co. il Nat Pet N 33:19-20, 22 N 26 '41

Jobbers, Appeal to

Fifteen-year-old letter program; gadget letters of Fulton-Wassell paper company, Little Rock, Arkansas. L. P. Bott, jr. il Am Business 12:12-13+ Ag '42

Jobbers' salesmen remain important when manufacturer is without goods to sell; basic theme in trade press holds their good-will, Aluminum goods mfg. co. R. L. Pritchard. il Ptr Ink 200:40-1 Jl 3 '42

This packaged sales story sells jobbers on pushing full line; Manning, Maxwell & Moore's visual presentation. L. H. Brendel. il Sales Management 50:36-9 Ja 1 '42

Why so many promotion pieces for jobbers go bee-line to the waste paper baler. L. Valenstein. Sales Management 49:56-60 D 15 '41

Laws and regulations

Advertising as government sees it; an interpretation; "green book" applies to cost-plus contracts. Ptr Ink 201:13-14+ O 9 '42

Advertising expense and corporate income tax returns; clarifying explanation regarding deductibility. Ptr Ink 200:19+ S 4 '42; Same. Adv & Sell 35:16a-16b S '42; Same. Ind Marketing 27:32, 35-6 S '42

Advertising limit; Canada imposes retroactive clamp on expenditures from war profits. Business Week p44 Je 6 '42

Advertising regulations for liquor in monopoly states. il Adv & Sell 35:48+ N '42

Advertising ruling made by Internal revenue bureau. Ptr Ink 201:44-5 O 30 '42

Allowable advertising fees in war contracts. Comm & Fin Chr 156:1437 O 22 '42

Application of censorship and military regulations to advertisers' copy. map Ind Marketing 27:13-16+ Mr '42

Bromide backfire; five makers of headache remedies cited by FTC. Business Week p22+ O 31 '42

Censor over ads. Business Week p48+ Ja 24 '42

Do not exploit heroes of war. Inland Ptr 109:25 Ag '42

Espionage act will be applied to industrial advertising. A. P. Mills. Ind Marketing 27: 13-14 Ja '42

Flag in advertising. il Inland Ptr 109:44 Ag '42

Guarantees in advertisements as viewed by Federal trade commission. I. W. Digges. Ptr Ink 199:41-2 Je 12 '42

Here are wartime rules having to do with advertising copy; Office of censorship, answering 24 questions. Ptr Ink 198:50-2 Mr 6 '42

How and where to get approval for wartime copy and photographs. A. P. Mills. map Ind Marketing 27:13-14 F '42

Listerine test; Federal trade commission action against Lambert pharmacal co. Business Week p50, 52 Ap 18 '42

Navy in advertising. Adv & Sell 35:76 O '42

New check list of FTC taboos; June, 1941 to March, 1942. Adv & Sell 35:28, 30+ Jl '42

New guides to wartime advertising policy as set by government agencies. Business Week p74 O 17 '42

OK advertising for war contractors; Nelson explains difference and how to charge costs under fixed-price and cost-plus-fixed-fee contracts. Ind Marketing 27:48 N '42

Pharmaceutical specialties; regulations governing advertising established in Brazil. For Comm W 7:10-11 My 16 '42

Reasonable advertising to be allowed under war contracts. Ind Marketing 27:23 O '42

Use of the flag in packaging. Mod Packaging 16:70 O '42

War department policy on advertising; a review of regulations and procedures to guide advertisers in the preparation of copy and photographs. R. P. Powell. Ind Marketing 27:37-40+ Ag '42; Same cond. Ptr Ink 200: 48-52 Jl 10 '42; Same cond. Adv & Sell 35: 44+ Ag '42

Market selection

Metropolitan districts and advertisers. F. R. Coutant. map Ptr Ink 198:54-8 Ja 9 '42

Objectives

Advertising's wartime handicaps and opportunities. J. E. Wiley. Ind Marketing 27:34, 37-8+ My '42

ADVERTISING—Objectives—*Continued*

Advertising's wartime job. G. D. Crain, jr. Ind Marketing 27:21-2, 70+ F '42
Can advertising still sell, or just tell? J. T. Chirurg. il Adv & Sell 35:66+ S '42
42 special uses for advertising in a wartime economy. il Ptr Ink 198:24, 28+ Ja 23 '42
Four crisis jobs for advertising. Adv & Sell 34:28-30 D '41
How industrial advertising can help speed war production. Ptr Ink 198:15, 56 Mr 20 '42
How limited budget can be stretched to protect future markets. J. Reiss. Ptr Ink 197:66-8 D 19 '41
Trend in objectives and methods of industrial advertising. Ind Marketing 27:32-3+ Ja '42
What to advertise this year; Proctor electric company advertising objectives and program. R. M. Oliver. il Ptr Ink 198:16-17+ Ja 30 '42
What's your advertising objective? J. T. Chirurg and H. G. Sawyer. Ptr Ink 198:96+ Ja 2 '42
Why wartime advertising is most important of all. L. D. H. Weld. Ptr Ink 200:28, 30 S 25 '42

Planning

How limited budget can be stretched to protect future markets. J. Reiss. Ptr Ink 197:66-8 D 19 '41
Long-range planning for wartime advertising. K. Groesbeck. Ptr Ink 199:15-16+ Je 5 '42
Vice-president-in-charge-of-thinking-about-tomorrow; idea created for an advertisement developed to a nationwide movement of planning for peacetime. il Ind Marketing 27:23+ F '42

Prize contests

Pacific Gas and Electric scores with quiz contest; new type institutional advertising campaign tells utility's story to children and parents. il Elec West 89:46-7 Jl '42
Quiz tells electreconomy. il Elec West 89:52-3 Ag '42
We want you to sit in on our planning board; dealer suggestion contest; Barlow and Seelig washers and ironers. J. S. Morris. il Ptr Ink 200:21+ S 18 '42

Psychology

Capitalize on human nature and get action from advertising. R. Manville. Ptr Ink 200:48 Jl 3 '42
Copy writers' note: people are most interested in themselves. R. Manville. Ptr Ink 201:58 O 16 '42
How to write a good advertisement. V. O. Schwab. il Ptr Ink 197:18-22 N 14; 58-9, 62+ N 28; 33+ D 5; 38, 42-3, 46-7 D 19; 31-3, 36-8 D 26 '41

See also
Advertising copy
Advertising research

Public attitude

CBS gives Consumers Union free time to attack advertising. Sales Management 50:47-8 Ja 15 '42
How advertising can meet today's critical challenges. J. W. Young. Adv & Sell 34:102+ D '41
In advertising's own back yard! Ptr Ink 197:55-6, 58+ D 12 '41
John Citizen looks at wartime copy. S. S. Bowman. Adv & Sell 35:28+ O '42
Mr Hollister protests too much. I. S. Mattingly. Adv & Sell 35:15+ O '42
Pacific Coast advertising fights for American way of life and business; three-year educational program. D. Belding. Ptr Ink 198:23-4+ Ja 30 '42
Pro-advertising; joint meeting of Association of national advertisers, American association of advertising agencies. Business Week p44 N 22 '41
What are the real threats to advertising? A. O. Buckingham. Adv & Sell 34:108-9 D '41
What consumers really think about advertising. D. Starch. Ptr Ink 200:26-7 Jl 24 '42
What the critics think about advertising. Adv & Sell 34:12 D '41

Purchasing

See also
Radio advertising—Purchasing

Rates

Sun reckoning; new Chicago paper gives voluntary rebates to advertisers. Business Week p67-8+ Jl 25 '42

Returns

Funds shrink, but tea advertising goes on: sales at record level. il Sales Management 50:40-2 Ja 1 '42

Samples

See Samples (merchandizing)

Schedules

Seasonal variations in the visibility of advertising; percentage of magazine readers seeing 2-column black-and-white advertisement; tabulation by months. J. F. Kurie. Adv & Sell 35:23 Jl '42
When to advertise in Miami and Seattle: a study of Federal reserve board reports, 1936 through 1940. C. E. Haring. Adv & Sell 35:24 Jl '42

See also
Advertising, Mail—Schedules
Radio advertising—Schedules

Schools, Appeal to

A.A.R. brings out school kit of railroad information. il Ry Age 112:274 Ja 24 '42

Soldiers, Appeal to

Ad man in camp; army as proving ground for appeals that move men in the mass. E. B. Stern. Adv & Sell 35:18+ Je '42

Special weeks

See Advertising campaigns—Special weeks

Statistics

Advertising is off. Business Week p65-6+ Ag 22 '42
Advertising off only 8.6% for first half of 1942. L. D. H. Weld. Ptr Ink 200:24, 28+ Ag 28 '42
Advertising up 7%. Business Week p38+ Ja 24 '42
Advertising volume for December issues of industrial, trade, and class papers, and totals for 1941 and 1940; tabulation. Ind Marketing 27:110 Ja '42
Advertising's ups. Business Week p75+ Mr 14 '42
Export information industry marches on; range of expenditures for advertising in the United States, 1880 to 1941. J. H. Morse. For Comm W 8:6-7+ S 19 '42
Farm-paper linage; figures for January monthlies; and linage for December publications. Ptr Ink 198:67-8 Ja 16 '42 [cont monthly]
Farm publications; advertising linage, three semi-annual totals, 1940-1942. Ptr Ink 200:64 Jl 31 '42
504 agencies placed 213,831 pages in business papers in 1941; tabulation, 1940, 1941. Ind Marketing 27:16-20 S '42
January magazine advertising, 1940-1942. Ptr Ink 198:74, 76, 78 Ja 9 '42 [cont monthly]
Leading advertisers of 1941 and their expenditures; 401 companies invested $252,590,053 in magazines, farm papers and network radio. Ptr Ink 198:41+ F 6 '42
Magazine linage; five semi-annual totals, 1938-1942. Ptr Ink 200:58+ Jl 31 '42
1941 advertising up 4.6%; prospects fair for 1942. L. D. H. Weld. Ptr Ink 198:24, 28, 69 F 13 '42
1942 advertising volume shows up better than expected. L. D. H. Weld. Ptr Ink 199:22, 24+ Ap 24 '42
$1,920,000,000 is U.S. 1941 advertising bill. L. D. H. Weld. Ptr Ink 198:19-20 Mr 27 '42

ADVERTISING—Statistics—*Continued*

Railroad advertising in 1941. F. Snow. Adv & Sell 35:61 Jl '42

Those industrious VanDiver boys; compiling Brad-Vern reports on advertising in the business press. P. James. il Adv & Sell 35:24 S '42

See also

Advertising appropriations

Radio advertising—Statistics

Stockholders, Appeal to

Stockholders, employes help Standard Brands sell. Sales Management 50:39 Ja 1 '42

Study and teaching

Advertising course, optional; satire. R. E. DeCastro. Adv & Sell 35:30+ Je '42

Testing

See Advertisements—Testing

Women, Appeal to

British women are lured into war factory work by smartly applied advertising psychology. C. Chisholm. il Ptr Ink 198:13-14, 53-4 Ja 30 '42

Home sewing advertising is on the mend; post-war continuation of brisk sales will require promotion. G. Murray. il Ptr Ink 200:23-4+ S 4 '42

Ladies disagree; are women people? C. Kellar. Adv & Sell 35:87 S '42

Lady in coveralls wooed by sellers. E. Johns. il Ptr Ink 201:21-3+ O 16 '42

Let's leave slush to the sex-pulps. E. Wolf. Adv & Sell 35:85+ Ag '42

Marlboro cigarettes provide theme for fashion advertising. il Ptr Ink 200:21 S 11 '42

Selling the female industrial group. A. L. Karp. Adv & Sell 35:26 Mr '42

What kind of slogan and trade-mark do women most easily remember? il Sales Management 49:26-8+ D 1 '41

Where's the woman's angle in this war? S. Carewe. Adv & Sell 35:23 Ag '42

Women now read advertising more eagerly than ever. F. R. Coutant. il Ptr Ink 199:13-14+ Je 26 '42

Women people? J. Austin. Ptr Ink 201:21-2 O 23 '42

Yearbooks

Seventh annual advertising and publishing production yearbook. 468p bibliog(p319-26) $5 Colton press, 114 E. 32d st, New York '41

Australia

War advertising down under. il Ptr Ink 199:18 My 29 '42

Wartime level of Australian advertising. N. V. Nixon. Adv & Sell 35:42+ S '42

Canada

Advertising limit. Business Week p44+ Je 6 '42

Canada clarifies position of advertisers concerning income tax liability. Paper Tr J 115:14 Jl 2 '42

How Canada's press is handling war finance advertising; paid campaign by government is supplemented by copy contributed by civilians. Ptr Ink 201:28 O 2 '42

Ottawa eyes ads; warns of action to ban display or advertising of articles whose sale has been curbed. Business Week p38+ Ap 11 '42

Great Britain

Advertising in British newspapers. Adv & Sell 35:66+ Je '42

Advertising under a blitz. il Sales Management 50:18-19 Mr 1 '42

Britain organizes its war advertising. C. Chisholm. il Ptr Ink 198:13-14, 53-4 Ja 30; 199:26, 31-2 Ap 17 '42

How England met our no. 1 problem; advertising of restricted products. J. Gloag. il Adv & Sell 35:176+ F '42

How English paper shortage affects advertising. P. Emanuel. Ptr Ink 198:57 Mr 20 '42

How war hit advertising in Britain. Adv & Sell 35:17-20 Ja '42

Outlook for ads. il Business Week p54+ F 14 '42

Review of British industrial advertising under wartime restrictions. J. L. Young. il Ind Marketing 27:30-1+ Jl '42

£2,000,000 will be spent by Britain for war advertising this year. C. Chisholm. Ptr Ink 198:13-14+ Mr 6 '42

War ads change; Britain has seen major shifts in trends. Business Week p58+ Jl 11 '42

War advertising, British style. il Ptr Ink 197:20-1 D 12 '41

Hawaiian Islands

Hawaii advertises as usual. Ptr Ink 197:48+ D 19 '41

Hawaiian advertising made the change-over to war. I. A. Vladimir. Adv & Sell 35:191-3 F '42

Latin America

Bausch & Lomb holds Latin American market with unique campaign; struggles of South American heroes for independence featured. H. S. Feeser. il Ind Marketing 27:19, 64 Jl '42

Export advertising as a weapon in psychological warfare. H. R. Webel. il Adv & Sell 35:16-17 O '42

Rockefeller seeks advertising cooperation with S. America. Ptr Ink 200:24 Ag 14 '42

South America beckons to U.S. advertisers; why and what and how to advertise, now, in the countries to the south. H. R. Webel. il Ptr Ink 198:18-19+ F 6 '42

Treasury rules export advertising deductible. Comm & Fin Chr 156:818 S 3 '42

Way now cleared for U.S. export advertising. C. Cloyes. For Comm W 8:3-4+ Ag 22 '42

ADVERTISING, Association

Awards for advertisements appearing in any medium sponsored by one or more trade associations. il Adv & Sell 35:21-3 F '42

Big push on scrap; general salvage and fats and oils drives. Business Week p20 Je 27 '42

Cooperative cotton campaign. E. Peterson. il Ptr Ink 200:35-6+ S 11 '42

Galvanizers expand markets through coöperative effort; business paper copy and technical literature. il Ind Marketing 27:38, 40 Mr '42

How public relations minded association staged comeback; American lighting equipment association. J. Markel. il Ptr Ink 197:17-20 D 19 '41

What sound cooperative advertising has done for America's meat industry. L. B. Colby. il Sales Management 50:18-21 Ja 1 '42

See also

Advertising campaigns—Special weeks

Cooperative associations—Advertising

ADVERTISING, Cooperative

Advertisers cooperate in recipe compilation. il Ptr Ink 201:40 O 30 '42

Are you a myope? seeing the long range value of cooperative advertising. H. H. Romanoff. Trusts & Estates 73:619-20 D '41

Funds shrink, but tea advertising goes on: sales at record level. il Sales Management 50:40-2 Ja 1 '42

Liquor industry plans joint campaign to fight dry forces. Sales Management 51:51 Ag 15 '42

Two-million-dollar campaign to get in scrap. Ptr Ink 199:59 Je 12 '42

See also

Advertising, Association

House organs, Cooperative

Radio advertising, Cooperative

Manufacturers and jobbers

Cutting cooperative advertising? then put your money in national. F. E. Fehlman. Sales Management 51:48, 50 Ag 15 '42

ADVERTISING, Direct

Door-to-door eclat. Business Week p68+ Jl 18 '42

Three men and 1,100 women run this business; Welcome wagon service co. plan for local and national advertisers to deliver samples and other advertising material to brides, new mothers, and newcomers. Am Business 12:37 Ja '42

ADVERTISING, Direct mail. See Advertising, Mail

ADVERTISING, Educational

Advertising can help stop coffee and food hoarders. il Ptr Ink 201:34 O 16 '42

Advertising for war; drug, cosmetic, and allied trades. Business Week p49 Ag 29 '42

Advertising in grim earnest to lessen accidents; Liberty mutual insurance company. B. Moore. il Ptr Ink 200:28+ S 11 '42

Advertising plan (who will sponsor it?) to cause business men to go to war spiritually. J. T. Chirurg. il Ptr Ink 199:13-15 My 29 '42

American Chain's victory program for wire rope distributors. W. Meyer. il Ind Marketing 27:38-9 N '42

Army spokesman outlines advertising's job in war. A. R. Ginsburgh. il Adv & Sell 35: 25-6+ Ja '42

Awards for advertisements which contribute most to the advancement of advertising as a social force. il Adv & Sell 35:31-3 F '42

Campaign makes public understand transportation problem. il Ptr Ink 201:36 O 2 '42

Can advertising sell hair shirts? J. L. Love. Ptr Ink 200:90 S 11 '42

Conservation is advertised; eight industries contribute ideas for saving and giving longer life to products. Ptr Ink 198:61 Ja 30 '42

Describes salvage advertising. Ptr Ink 201:28 O 9 '42

Don't buy ads; Canadian industry goes ahead with eye on postwar markets. Business Week p42-3 Ja 10 '42

Don't hoard campaign urged upon retailers. Ptr Ink 198:21 Mr 27 '42

Fighting booklets help in home front warfare. C. J. Swan. il Ptr Ink 199:16-17+ Je 12 '42

Fighting the 7th column; Liberty mutual insurance co. campaign to promote safety. Business Week p99 Ag 15 '42

Food conservation aim of New Orleans ads. il Elec W 117:1058-9 Mr 21 '42

Ford going on air; goodwill-advertising trend. Business Week p69 Jl 4 '42

General Motors tells owners how to preserve their cars. Ptr Ink 198:20 Mr 6 '42

Good industrial advertising helps men and plants fight this war. V. Van Diver. Sales Management 50:57 F 1 '42

Government restrictions melted by Fruehauf educational advertising. W. D. Wise. il Ind Marketing 27:13-16+ Je '42

Helps industry get more out of present equipment; Greenfield tap & die corporation. il Ptr Ink 198:19 Ja 23 '42

Here is timely help for hard-pressed food retailer; Libby, McNeill & Libby campaign. il Ptr Ink 201:24+ O 30 '42

Hotel men fight strike with advertising technique learned from farm groups. J. E. Pickett. Ptr Ink 198:17+ F 6 '42

How advertising helped prepare America to do war job superbly well. W. D. Fuller. Ptr Ink 198:34, 60 Ja 23 '42

How and what can we advertise today with nothing to sell? Warner & Swasey advertisement. W. K. Bailey. il Sales Management 51:44+ O 1 '42

How the printed word can and is aiding the war program; business editors and industrial advertisers provide valuable educational data. H. Conover. il Ind Marketing 27:28-31+ Je '42

Impact of war on advertising. Adv & Sell 35:19-21 S '42

Industrial campaign is built around conservation theme; Houghton leather belting. D. C. Miner. il Ptr Ink 199:28+ Je 26 '42

Industrial copy dons overalls. M. K. Powers. Adv & Sell 35:42 Ap '42

Inspired writing comes from the heart. G. W. Cecil. Adv & Sell 35:18+ O '42

Job for advertising: check constantly on four vital points of contact; with employees, business contacts, customers and the general public. A. J. Mott. Ptr Ink 200:19-20 Ag 28 '42

Macy's campaigns to deter needless sales. il Adv & Sell 35:33 Je '42

Meat industry, not scared by rationing, will invest $2 million in advertising. P. H. Erbes, jr. il Ptr Ink 201:17-19 O 16 '42

Much talk, little said; need for war slogans. H. Powel. Adv & Sell 35:56 Jl '42

Much wartime advertising designed for educational purposes. il Ind Marketing 27:54, 56, 61 O '42

NIAA victory promotions plan available to all advertising men. il Ind Marketing 27: 53+ N '42; Factory Management 100:268+ N '42

No rubber for Bauer & Black, but keep fit ads keep old friends; window display program continues. il Sales Management 50: 26+ Je 15 '42

Our job is to hold our customers; supplying helpful, needed data is Okonite's approach. R. S. Hayes. il Ind Marketing 27:15+ F '42

Pepperell film sells conservation, not goods, to public. Sales Management 51:53 Ag 15 '42

Retail posters inform consumers on conservation; Pacific Mills series for dealers. il Ptr Ink 199:16 My 22 '42

Salvaging industrial power; Gilmer company packages a program to cut electrical and other wastes. Ptr Ink 199:24-5 Je 19 '42

Service advertising helps farmers at war; Texas company gives facts on care of farm machinery. C. J. Swan. il Ptr Ink 199:50-1 My 8 '42

Seven ways to thwart ignorance—the saboteur. S. Hopper. il Ind Marketing 27:22-4, 66+ Ap '42

Sound film sells conservation; Pepperell's new movie. il Ptr Ink 200:20-1 Ag 21 '42

S. O. advertises to clarify stand on synthetic rubber; fourteen oil companies, six chemical and one rayon firm, slated to turn out butadiene and styrene. Sales Management 51:44-5 Ag 1 '42

Surface Combustion campaign creates new thinking on deliveries. il Ind Marketing 26: 19-20 D '41

Thing of peace, advertising is now geared to winning war; annual conference of National industrial advertisers association. C. B. Larrabee. Ptr Ink 200:24, 28+ Jl 10 '42

This advertising is social, as well as selling, force; Mennen antiseptic oil. J. H. Miller. il Ptr Ink 198:15, 70-1 Ja 9 '42

Two-million-dollar campaign to get in scrap. Ptr Ink 199:59 Je 12 '42

U.S. Rubber campaign helps mobilize civilian America. Sales Management 51:28 O 20 '42

We made a sound, color movie; heat treating hints produced by Lindberg engineering company. R. C. Onan. il Ind Marketing 26:29-30+ D '41

When the last shot's fired, what then? now's the time for advertising manager to sell everyone on social significance of technological progress. S. A. Knisely. Ind Marketing 27:31-2+ Ag '42

See also

Advertising, Association

Advertising, Institutional

Money raising campaigns

ADVERTISING, Foreign

Bausch & Lomb holds Latin American market with unique campaign; struggles of South American heroes for independence featured. H. S. Feeser. il Ind Marketing 27:19, 64 Jl '42

Chicago spikes Axis yarns about export trade. Ptr Ink 198:41 Mr 13 '42

Export advertising as a weapon in psychological warfare. H. R. Webel. il Adv & Sell 35:16-17 O '42

Export information industry marches on. J. H. Morse. For Comm W 8:6-7+ S 19 '42

Program of export advertisers. Ptr Ink 200: 26 S 18 '42

ADVERTISING, Foreign—*Continued*

South America beckons to U.S. advertisers; why and what and how to advertise, now, in the countries to the south. H. R. Webel. il Ptr Ink 198:18-19+ F 6 '42

Way now cleared for U.S. export advertising. C. Cloyes. For Comm W 8:3-4+ Ag 22 '42

See also

Radio advertising, Foreign

ADVERTISING, Fraudulent

Marmola loses. Business Week p62 My 9 '42

See also

Advertising—Laws and regulations

Advertising ethics

ADVERTISING, Indirect

See also

Advertising, Educational

ADVERTISING, Industrial. See Advertising—Industries, Appeal to

ADVERTISING, Institutional

Advertising campaign that was bombed out of existence and came to life; Allis-Chalmers moving picture and brochure for customers, stockholders and employees. A. R. Tofte. Ptr Ink 199:59-60 Je 5 '42

Advertising is teaching conservation. il Ptr Ink 198:14-15 F 20 '42

Autographed bombers; names of bond buyers inscribed on planes. il Ptr Ink 200:34 S 18 '42

Business that has nothing to sell? Manuf Rec 111:30+ Ap '42

Byoir, space buyer; public relations expert forms Institutional advertisers, inc., to write good-will copy and place ads for clients. Business Week p45-6 Ja 17 '42

Campaign advertising. J. Steagall. J Retailing 18:67-73 O '42

Fine example of good will advertising; Allis-Chalmers corporation. il Inland Ptr 109:26 Jl '42

Glimpse into the miracle electronic world of tomorrow; General Electric's current institutional advertising campaign. L. M. Hughes. il Sales Management 51:18-20 S 15 '42

Graybar, oversold, advertises to guard post-war good-will. C. J. Swan. il Ptr Ink 197:15-17 N 14 '41

Hour for G.M.; institutional radio program reverses an advertising trend. Business Week p57-8 My 16 '42

How advertising solved a wartime problem for Armco; newspapers and business papers used. W. E. McFee. il Ind Marketing 27:33 F '42

Keep family budget, is advice of loan company advertising; Household finance corporation. il Ptr Ink 201:26 O 16 '42

New war workers assimilated through paid advertising; Gisholt machine co. il Ptr Ink 199:26 Je 19 '42

Pacific Gas and Electric scores with quiz contest; new type institutional advertising campaign tells utility's story to children and parents. il Elec West 89:46-7 Jl '42

12 railroads start huge wartime advertising program; eastern lines newspaper campaign. G. A. Nichols. il Ptr Ink 201:13-16+ O 30 '42

Untouchables of institutional advertising. W. L. Day. Adv & Sell 35:17 O '42

When priorities pinch, advertising can be continued profitably; Mirro aluminum experience. R. L. Pritchard. il Ptr Ink 197:13-16 D 12 '41

Will institutional ads repeat the boners of 1918? M. K. Powers. Adv & Sell 35:70+ Je '42

See also

Anniversaries, Company—Advertising

ADVERTISING, Mail

American Chain's victory program for wire rope distributors. W. Meyer. il Ind Marketing 27:38-9 N '42

Cost and results of Cochrane's direct mail for sales promotion; campaigns for building prestige, prestige plus inquiries, and for inquiries alone. S. D. Distelhorst. il Ind Marketing 26:21-3+ D '41

Direct mail idea that holds customer good will. Comm & Fin Chr 154:1546 D 18 '41

Enormous test mailings show U.S. how to sell bonds by letters. E. A. Buckley. Ptr Ink 197:70-2, 74 D 5 '41

How Caterpillar Tractor uses direct mail for wartime jobs. P. C. Smith. Ind Marketing 27:40+ N '42

How to conduct a direct mail campaign; abstract. L. L. Knott. Management R 30:453-4 D '41

How to sell bank service by direct mail. R. E. Doan. Bankers M 145:292-318 O '42 (to be cont)

Jobber's direct mail advertising backs national brand campaigns; Bunges oil co. Nat Pet N 34:37-8 Ja 21 '42

Mailing idea for acquiring new customers. Comm & Fin Chr 154:1455 D 11 '41

Media! here's how your promotion can be improved! 110 advertisers (members of P.I. jury) offer suggestions and criticisms. Ptr Ink 200:19-20, 24 Jl 17 '42

Prize-winning mail campaign: it switched a market to alternate products; Southern States Iron Roofing converts to asphalt. il Ptr Ink 201:76, 78+ N 6 '42

Some plain talk on direct mail advertising. Comm & Fin Chr 154:1324 D 4 '41

Successful mail selling. H. P. Preston. 228p bibliog(p222-4) $3 Ronald press '41

This direct mail is geared to industrial selling; Ferranti electric limited. G. A. Brace. il Ptr Ink 198:16-17+ Ja 9 '42

Use of class printing by churches means new business. il Inland Ptr 109:23-5 Ap '42

What waste can you trim from your direct mail? pictograph. Sales Management 50:37 F 15 '42

Why advertisers save media promotion. Ptr Ink 200:22+ Jl 24 '42

Why so many promotion pieces for jobbers go bee-line to the waste paper baler. L. Valenstein. Sales Management 49:56-60 D 15 '41

See also

Advertisements—Books and booklets

Advertisements—Christmas cards

Calendars

Catalogs

House organs

Mail order business

Sales letters

Brochures

Advertising campaign that was bombed out of existence and came to life; Allis-Chalmers moving picture and brochure for customers, stockholders and employees. A. R. Tofte. Ptr Ink 199:59-60 Je 5 '42

Folders

Do they read it? bill inserts; Connecticut light & power company. C. J. Allen. il Elec W 116:1890-1 D 13 '41

Making publication advertisements do double duty; Irvington varnish and insulator company mailing pieces. M. C. Beckman. il Ind Marketing 27:27+ Mr '42

Postal cards

Ohio printer finds post cards pay. il Inland Ptr 108:36 Ja '42

Returns

Gets direct mail sales at 8% cost; machine vises. W. P. Woodall. il Ind Marketing 27:42+ Jl '42

Letters, 12,342; replies, 1,474 (11.9%); cost per inquiry, $0.75; National fire group advertises to agents. J. W. Mason. Ptr Ink 199:22, 24+ Je 26 '42

Schedules

Flexible schedule for direct-mail campaign. il Ptr Ink Mo 43:22 D '41

Statistics

Monthly direct-mail volume. L. J. Raymond. Ptr Ink 198:42 Ja 30 '42 [cont monthly]

ADVERTISING, Mail—*Continued*

Testing

Letters, 12,342; replies, 1,474 (11.9%); cost per inquiry, $0.75; National fire group advertises to agents. J. W. Mason. Ptr Ink 199:22, 24+ Je 26 '42

ADVERTISING, National

Attention; a collection of the national advertisements that have been most successful in arresting the attention of newspaper readers. 111p Bur. of advertising, Am. newspaper publishers assn, New York '41

Brand strength is strong element in American way of life. A. H. Deute. Ptr Ink 197:13-16 D 26 '41

Cutting cooperative advertising? then put your money in national. F. E. Fehlman. Sales Management 51:48, 50 Ag 15 '42

Hey, Mr Publisher, how about a better deal for national? B. E. Tacks. Sales Management 50:24 Ap 20 '42

How to measure brand loyalty; four important factors are basis of coffee preference study. H. L. Churchill. Adv & Sell 35:24+ Ag '42

Identified hamburger. il Ptr Ink 197:67-8 N 21 '41

Information in advertising. K. Dameron. Harvard Business R 20 no 4:482-95 [Jl] '42

Retail customers shun cheaper, unknown brands during wartime. M. F. Allison. Sales Management 51:34+ N 1 '42

Specific ways to tie-in national campaign at point of sale; Printers' Ink Monthly special study. il Ptr Ink Mo 43:18-21+ D '41

Study in continuity and cumulative effect; case history charts of eight national advertisers. R. M. Oliver. Ptr Ink 198:26, 31-2 Mr 6 '42

Time to start retailers on national brands is now; room for one more advertised trademarked line in every field. S. C. Singer. il Ptr Ink 200:21, 42 Jl 24 '42

Women now read advertising more eagerly than ever. F. R. Coutant. il Ptr Ink 199:13-14+ Je 26 '42

See also

Advertising appropriations

Advertising campaigns

Statistics

See Advertising—Statistics

ADVERTISING, Outdoor

Awards. il Adv & Sell 35:34-41 F '42

Funds shrink, but tea advertising goes on: sales at record level. il Sales Management 50:40-2 Ja 1 '42

How to make sign advertising pay. O. J. Grisier. 166p $1.50 David McKay co, 604 S. Washington sq, Philadelphia '41

Review and forecast. R. C. Grahl. il map Adv & Sell 35:117-18, 120-1 F '42

See also

Billboards

Electric signs

Posters

ADVERTISING, Point-of-sale

Advertising that can help win the war at point-of-sale outlets. il Ptr Ink 199:18-19 My 1 '42

Merchandising show must go on. F. H. Meeks. il Mod Packaging 16:73-5+ O '42

Millions of impressions can become sales. J. J. Jacobson. il Mod Packaging 15:69-71 Ja '42

Picture the product. il Mod Packaging 15:61+ Jl '42

Point-of-sale displays for the duration. il Ptr Ink 201:20-1 N 6 '42

Specific ways to tie-in national campaign at point of sale; Printers' Ink Monthly special study. il Ptr Ink Mo 43:18-21+ D '41

Store displays in wartime. H. Korman. il Mod Packaging 15:83-5+ My '42

Wartime advertising at point of sale. P. Thompson. il Mod Packaging 15:79-81 Je '42

Year's best-liked back-bar pieces. il Mod Packaging 15:76-7 D '41

See also

Labels

Show cards

ADVERTISING, Radio. See Radio advertising

ADVERTISING, Soliciting of

Better business bureau for media? R. J. McAndrews. Adv & Sell 35:74 Ja '42

Hey, Mr Publisher, how about a better deal for national? B. E. Tacks. Sales Management 50:24 Ap 20 '42

Media! here's how your promotion can be improved! 110 advertisers (members of P.I. jury) offer suggestions and criticisms. Ptr Ink 200:19-20, 24 Jl 17 '42

What advertisers think of consumer media promotion. Ptr Ink 200:13-15 Jl 3 '42

What advertisers want in business-paper promotion. Ptr Ink 200:22-3 Jl 10 '42

Why advertisers save media promotion. Ptr Ink 200:22+ Jl 24 '42

ADVERTISING, Trade union

C.I.O.'s publicity drive. Business Week p75 Ap 18 '42

ADVERTISING agencies

After hours; selecting an advertising agency. C. M. Freeman. Ptr Ink 197:6 N 14 '41

Agency service enables advertising man to do a bigger job. H. N. Baum. il Ind Marketing 27:13-14+ S '42

Byoir, space buyer; public relations expert forms Institutional advertisers, inc., to write good-will copy and place ads for clients. Business Week p45-6 Ja 17 '42

Creative parts, special and interchangeable. W. L. Day. Adv & Sell 35:17 N '42

504 agencies placed 213,831 pages in business papers in 1941; tabulation, 1940, 1941. Ind Marketing 27:16-20 S '42

Impact of war on advertising agencies. F. R. Gamble. Adv & Sell 35:22-3+ My '42

Public relations and industry. M. K. Powers. Adv & Sell 35:70+ O '42

Review and forecast. A. Kudner. Adv & Sell 35:55-6, 58 F '42

War broadens opportunities for agency service. S. C. Brown. Ind Marketing 27:15+ S '42

Who determines type and selection of media; Printers' Ink jury of marketing opinion. Ptr Ink 198:24, 26 Ja 9 '42

Why direct advertisers don't use agencies. E. B. Weiss. Adv & Sell 34:48, 50+ D '41

See also

Advertising, Soliciting of

Contracts

Agency-client contracts: strong and weak points; P.I. advertising agency clinic report. E. B. Weiss. Ptr Ink 197:69-74 D 12 '41

Eight basic types of agency-client agreements. E. B. Weiss. Ptr Ink 198:36+ Ja 30 '42

How to frame an agency-client agreement. E. B. Weiss. Ptr Ink Mo 43:14-15+ D '41

Employees

Advertising faces new personnel problems. J. Truscott. Adv & Sell 35:34+ Mr '42

Changes in personnel. Published in monthly numbers of Advertising and selling

Impact of war on advertising; an agency all-employee conference; use of special media in coming era of advertising. Adv & Sell 35:17-18 Ag '42

Finance

Agency victory; advertising agency wins surtax case. Business Week p84 D 6 '41

Tax ruling allows agency to use ratio of billings as working capital. Ptr Ink 197:87-9 N 28 '41

Management

After hours; agency might sell "package" service to small business. E. Wolf. Ptr Ink 197:6 N 21 '41

After hours; keeping appointment times. A. Woodley. Ptr Ink 198:84 Ja 9 '42

ADVERTISING agencies—*Continued*

Service

Advertising agency builds morale for client employees. il Ptr Ink 199:22 My 1 '42
Impact of war on advertising; an agency all-employee conference; use of special media in coming era of advertising. Adv & Sell 35:17-18 Ag '42
New public relations billings for advertising agencies. J. L. Williston. Adv & Sell 35: 184-5 F '42
War brings developments in advertising agency service. P. H. Erbes, jr. Ptr Ink 201:13-14+ N 6 '42

ADVERTISING allowances

Ad promotional funds not subject to general maximum price regulation. Oil Paint & Drug Rep 141:7 Je 1 '42
Advertising allowance system not upset by OPA ruling. G. Scholefield. Ptr Ink 199: 30+ Je 5 '42
Advertising allowances not covered by price rules. Comm & Fin Chr 155:2117 Je 4 '42

ADVERTISING and bankers

See also
Bank advertising

ADVERTISING and employees

See also
Advertising—Employees, Appeal to

ADVERTISING and salesmen

$500 can cover cost of promoting advertising to sales force. J. Reiss. Ptr Ink 198:54-6 Ja 16 '42
Has advertising usurped sales prerogatives? C. S. Kauffman. Ptr Ink Mo 43:34+ D '41
How to use printed material in the sales meeting. E. J. Hegarty. Ptr Ink 199:34+ Je 5 '42

ADVERTISING and war

Advertisers make valuable contributions to the war effort. il Ind Marketing 27:52 S '42
Advertising coordinates for war effort; council representing industry set up. Comm & Fin Chr 155:869 F 26 '42
Advertising in a loose-money market. A. R. Hahn. Sales Management 50:22 Ap 20 '42
Advertising in armor. il Sales Management 50:18-21 Ja 15 '42
Advertising in the war; with 50 specimen advertisements. Adv & Sell 35:58-72 N '42
Advertising in uniform. Business Week p67 Ag 1 '42
Advertising in war-time. Electrician 128:262 Mr 20 '42
Advertising in wartime. Economist 142:423 Mr 28 '42
Advertising in wartime; plea for government fair deal for the advertiser. R. Moley. Ptr Ink 200:39 Jl 31 '42
Advertising is teaching conservation. il Ptr Ink 198:14-15 F 20 '42
Advertising to help win the war; Stewart-Warner corp. campaign. Ptr Ink 199:58 Ap 24 '42
Advertising under arms; unusual advertisements; illustrations. Sales Management 50: 22-3 F 1 '42
Advertising's wartime handicaps and opportunities. J. E. Wiley. Ind Marketing 27:34, 37-8+ My '42
Advertising's wartime job. G. D. Crain, jr. Ind Marketing 27:21-2, 70+ F '42
Another inspiring business story from England: how house magazines fight economic war. F. R. Groves. Ptr Ink 197:37, 40, 42-3 N 14 '41
Army spokesman outlines advertising's job in war. A. R. Ginsburgh. il Adv & Sell 35:25-6+ Ja '42
Bank service mobilization; should there be any financial advertising in wartime? J. H. Morse. Trusts & Estates 74:479-81 My '42
Britain organizes its war advertising. C. Chisholm. il Ptr Ink 199:26, 31-2 Ap 17 '42
Britain's carry-on advertising. E. A. Dench. Banking 35:52-3 Jl '42
Business films in a nation at war. R. M. Cronin. il Ptr Ink 198:16-17+ Mr 27 '42
Campaign ready for post-war release: Barrington Hall coffee. il Ptr Ink 201:26+ O 30 '42
Censor over ads. Business Week p48+ Ja 24 '42
Censorship guidebook. Business Week p56+ Mr 7 '42
Challenge to copy-testing; methods must keep pace with new objectives. L. O. Pratt. Ptr Ink 199:21 My 1 '42
Conservation now? wartime advertising policy; comment by gas industry officials. Gas Age 89:49-51 My 7 '42
Copy clinic. H. Bratsberg. Ptr Ink 200:48 Ag 28 '42
Copy clinic; keep 'em reading! war, a challenge to copywriters. G. Raphael. Adv & Sell 35:30, 32 Ag '42
Copy for victory; advertising's contribution to war effort endorsed. Business Week p94 S 12 '42
Courage, strength, faith, sound judgment. R. Dickinson. Ptr Ink 197:9-12 D 19 '41
Don't buy ads; Canadian industry goes ahead with eye on postwar markets. Business Week p42-3 Ja 10 '42
Early effects of war on radio. N. Miller. Adv & Sell 35:21-2+ Ja '42
Farms yield priceless scrap metal for war needs; Harvester company, using advertising to back up extensive collection program. il Ptr Ink 198:28+ Mr 13 '42
Fishing tackle. R. T. Sanford. Ptr Ink 201:76 O 23 '42
Flexible advertising strategy proves worth today; tuna packer uses fresh copy themes to meet new emergencies. il Ptr Ink 200:56 S 18 '42
42 ideas for war advertising that U.S. might adapt; experiences (and mistakes) of Britain and Canada. il Ptr Ink 198:15+ Mr 6 '42
42 special uses for advertising in a wartime economy. il Ptr Ink 198:24, 28+ Ja 23 '42
Function of the advertising man in wartime. V. H. Van Diver. Ind Marketing 27:19-20+ Ag '42
GE shows lighting industry how it can help to win the war. H. F. Barnes. il Sales Management 51:18-20 Jl 1 '42
Guide to effective war-time advertising. 141p Associated business papers, New York
Hart, Schaffner & Marx sells civilian clothes to men in khaki. il Sales Management 51:56 S 15 '42
Here are wartime rules having to do with advertising copy; Office of censorship answering 24 questions. Ptr Ink 198:50-2 Mr 6 '42
Home-front advertising. Adv & Sell 35:68 Mr '42
How advertising can help U.S. win both war and peace. Ptr Ink 200:29-30 Jl 3 '42
How advertising can help win the war. W. J. Weir and others. il Ptr Ink 199:13-76 Ap 10 '42
How advertising can help win war; two workable plans. Ptr Ink 200:16 Jl 31 '42
How advertising helped prepare America to do war job superbly well. W. D. Fuller. Ptr Ink 198:34, 60 Ja 23 '42
How Allis-Chalmers is meeting its wartime advertising task; elaborate brochure and sound motion picture augment product campaigns. G. J. Callos. il Ind Marketing 27:26-7+ My '42
How and what can we advertise today with nothing to sell? Warner & Swasey advertisement. W. K. Bailey. il Sales Management 51:44+ O 1 '42
How business can sell war to people, and why it must. W. J. Weir. Ptr Ink 199:19+ My 15 '42
How England met our no. 1 problem: advertising of restricted products. J. Gloag. il Adv & Sell 35:176+ F '42
How English paper shortage affects advertising. P. Emanuel. Ptr Ink 198:57 Mr 20 '42
How the printed word can and is aiding the war program; business editors and industrial advertisers provide valuable educational data. H. Conover. il Ind Marketing 27:28-31+ Je '42

ADVERTISING and war—*Continued*

How war is changing reading and listening habits. B. Duffy. Adv & Sell 35:13-15+ My '42

How will war affect American advertising? il Ptr Ink 198:24-5+ Ja 2 '42

Impact of war on advertising. Adv & Sell 34:17-31 D '41; 35:13-20 Ja; 180a-180d F; 17-24 Mr; 17-20 Ap; 17-20 My; 19-21 Je; 17-20 Jl; 17-20 Ag; 19-21 S; 19-22 O; 19-21 N '42

Impact of war on advertising agencies. F. R. Gamble. Adv & Sell 35:22-3+ My '42

Industrial ad men sharpen up at Atlantic City war conference. Sales Management 51:55-8 Jl 15 '42

Industrial advertising for victory, and tomorrow. W. D. Murphy. Ind Marketing 27:13-15+ Ap '42

Inspired writing comes from the heart. G. W. Cecil. Adv & Sell 35:18+ O '42

Instalment selling in reverse; paying now for after-war delivery; plan of Marketing research group of War work committee of Advertising club of New York. C. C. Green. il Ptr Ink 199:13-14+ My 22 '42

Let's stop kidding; the war is serious. K. Akers. Adv & Sell 35:32 N '42

Letting markets crumble is similar to dynamiting machinery, burning plants; is it patriotic to advertise in wartime? J. M. Cleary. Ptr Ink 199:11-12+ Ap 3 '42

Long-range planning for wartime advertising. K. Groesbeck. Ptr Ink 199:15-16+ Je 5 '42

More advertising needed, says Standard Brands' president; abstract. J. S. Adams. Ptr Ink 200:20 Jl 24 '42

Much talk, little said; need for war slogans. H. Powel. Adv & Sell 35:56 Jl '42

Need for advertising in war time. D. C. Schnabel. il Gas Age 89:13-14+ Ap 23 '42

New horizons now; advertising in today's war economy. H. M. Stevens. Ptr Ink 197: 51-2, 54-6 D 19 '41

No advertising blackout for automotive industry. P. H. Erbes, jr. il Ptr Ink 198:15-16+ Ja 16 '42

Nucleus company, new straw in the wind; concentrated manufacture, its import to advertisers. L. D. H. Weld. Ptr Ink 201: 22+ N 6 '42

Outlook for ads. il Business Week p54+ F 14 '42

Peacetime forecast of advertising at war; ads of 1938 give technical slant for today. T. Patrick. il Adv & Sell 35:22-3 Ja '42

Post-war markets being built with human industrial advertising; R. K. LeBlond machine tool co. il Ptr Ink 198:22-3, 56-7 F 27 '42

Post-war planning begins right here. D. V. Baker. il Ptr Ink 200:22, 24+ S 18 '42

Prophetic of things to come; advertising to help visualize improvements in products and services available after the war. il Ptr Ink 200:18-19 Ag 21 '42

Public's morale needs breaking down. H. G. Sawyer. Ptr Ink 201:68 i O 30 '42

Retail advertising under war conditions. G. P. Slockbower. J Retailing 18:39-43 Ap '42

Review of British industrial advertising under wartime restrictions. J. L. Young. il Ind Marketing 27:30-1+ Jl '42

Sales force intact and advertising up; Mohawk carpet mills. H. P. Hildreth. Ptr Ink 201:48 N 6 '42

Tasks listed for wartime advertising. Comm & Fin Chr 155:1264 Mr 26 '42

Tax deductions made for advertising. Comm & Fin Chr 156:810 S 3 '42

Ten men in Washington; or, the fallacies of 1942. B. Williams. il Ptr Ink 200:19-20 S 18 '42

Thing of peace, advertising is now geared to winning war; annual conference on National industrial advertisers association. C. B. Larrabee. Ptr Ink 200:24, 28+ Jl 10 '42

This war's advertising serves both the Nation and sponsors. L. M. Hughes. Sales Management 51:24-6+ N 1 '42

Transitional period copy theme is supplied by tin shortage; Gorton-Pew fisheries. il Ptr Ink 198:44+ Mr 27 '42

£2,000,000 will be spent by Britain for war advertising this year. C. Chisholm. Ptr Ink 198:13-14+ Mr 6 '42

U.S. Rubber campaign helps mobilize civilian America. Sales Management 51:28 O 20 '42

Utility advertising in war time. D. M. DeBard. Edison Elec Inst Bul 10:269-72 Jl '42

Victory plan; N.I.A.A. maps program to give the industrial advertising man a comprehensive blueprint for successful war drives. Business Week p60 N 7 '42

War ads change; Britain has seen major shifts in trends. Business Week p58+ Jl 11 '42

War advertising, British style. il Ptr Ink 197:20-1 D 12 '41

War brings developments in advertising agency service. P. H. Erbes, jr. Ptr Ink 201:13-14+ N 6 '42

War broadens opportunities for agency service. S. C. Brown. Ind Marketing 27:15+ S '42

War department policy on advertising; a review of regulations and procedures to guide advertisers in the preparation of copy and photographs. R. P. Powell. Ind Marketing 27:37-40+ Ag '42; Same cond. Ptr Ink 200: 48-52 Jl 10 '42; Same cond. Adv & Sell 35: 44+ Ag '42

War suggestion box. Ptr Ink 199:17 My 1 '42 [cont weekly]

Wartime advertising at point of sale. P. Thompson. il Mod Packaging 15:79-81 Je '42

Wartime advertising philosophy. Ptr Ink 197: 47-8 D 19 '41

Washington personalities comment on advertising. Ins Field (Life ed) 71:12 Jl 10 '42

What sales messages are advertisers using? F. Rundell. Inland Ptr 109:26 Je '42

What should a company advertise—today? General Electric survey. R. S. Peare. il Sales Management 50:18-21 My 1 '42; Same cond. Management R 31:173-5 My '42

What sort of printing shall we be selling next? F. Rundell. Inland Ptr 109:42 S '42

What's going to happen to retail advertising during the war? K. Collins. Sales Management 50:14-15 Ap 1 '42

Who should pay for war advertising? government should pay; industry should pay. Adv & Sell 35:13-14+ Je '42

Why advertise in wartime? C. W. Olliver. il Adv & Sell 35:98+ N '42

Why wartime advertising is most important of all. L. D. H. Weld. Ptr Ink 200:28, 30 S 25 '42

Will institutional ads repeat the boners of 1918? M. K. Powers. Adv & Sell 35:70+ Je '42

You and business papers can help. J. H. Morse. Power Pl Eng 46:45 Je '42

See also

Advertising copy—Conservation appeal

Advertising copy—War theme

Advertising council

ADVERTISING appropriations

Advertising expense and corporate income tax returns; clarifying explanation regarding deductibility. Ptr Ink 200:19+ S 4 '42; Same. Adv & Sell 35:16a-16b S '42; Same. Ind Marketing 27:32, 35-6 S '42

Advertising expenses and your tax bill. Management R 31:351-3 O '42

Agencies see larger appropriations with increases in business papers. il Ind Marketing 27:28-31+ Ja '42

Explains deductible advertising expenses. G. T. Helvering. Comm & Fin Chr 156:1171 O 1 '42

42 questions for limited budget advertiser to ask himself. J. Reiss. Ptr Ink 197:25+ N 21 '41

Funds shrink, but tea advertising goes on; sales at record level. il Sales Management 50:40-2 Ja 1 '42

Getting the best out of a small budget; advertising, public relations. C. J. Allen. Edison Elec Inst Bul 10:289-92 Ag '42; Same. Gas Age 90:15-18+ N 19 '42

ADVERTISING appropriations—*Continued*

Leading advertisers of 1941 and their expenditures; 401 companies invested $252,590,053 in magazines, farm papers and network radio. Ptr Ink 198:41+ F 6 '42

Quit worrying about advertising and taxes. J. K. Lasser. Adv & Sell 35:24+ O '42

2.01 per cent of gross sales spent for advertising in 1941. Ind Marketing 27:105 F '42

ADVERTISING art

Advertising as a fine art. P. H. Erbes, jr. il Ptr Ink Mo 43:42+ D '41

Art directors 21st annual; reproductions of the Art directors club exhibit displayed at the Metropolitan museum of art in the spring of 1942. 176p $6 Watson-Guptill publications, 330 W. 42d st, New York '42

Medal award and honorable mention for technical excellence of visual presentation (layout, art, typography). il Adv & Sell 35:24-7 F '42

Three-man juries judge advertising art. il Ptr Ink 199:14-15 Ap 17 '42

See also

Advertisements, Pictorial

Posters

ADVERTISING as a profession

Advertising goes to town. E. E. Calkins. Adv & Sell 35:64 My '42

Advertising women cogitate on their post-war status. G. Murray. Ptr Ink 198:43 Mr 6 '42

Functional pattern technique for classification of jobs. E. W. Davis. 128p bibliog (p121-3) $1.85 Teachers college '42

How personnel can use advertising talent; advertising man transferred to personnel work. H. W. Bullard. Adv & Sell 35:38 Je '42

How the advertising mind works; foresight, altruism, humanity, honesty, lift. K. Groesbeck. Ptr Ink 201:15-16 O 16 '42

More women in advertising now than in World war I. D. Dignam. Ptr Ink 199:16-17+ My 29 '42

See also

Advertising agencies

Advertising copy writers

Advertising ethics

ADVERTISING associations

Advertising roster; membership of industry-Washington liaison body. Business Week p48-9 F 21 '42

Conventions. Published in Printer's ink

See also

Advertising council

Association of national advertisers

National association of transportation advertising

ADVERTISING awards

Advertising awards medal goes to A.N.A. president. Ptr Ink 198:46 F 13 '42

Annual advertising awards, 1942. Adv & Sell 35:54, 58 O '42

Chicago art directors' awards. il Ptr Ink 198:42 Mr 13 '42

1941 annual advertising awards. il Adv & Sell 35:1-53 F '42

Prize advertising; awards to agencies and individuals announced. il Business Week p64+ F 7 '42

Prize-winning mail campaign: it switched a market to alternate products; Southern States Iron Roofing converts to asphalt. il Ptr Ink 201:76, 78+ N 6 '42

Three-man juries judge advertising art. il Ptr Ink 199:14-15 Ap 17 '42

See also

Radio advertising—Awards

ADVERTISING booklets. See Advertisements—Books and booklets

ADVERTISING campaigns

Advertising campaign that was bombed out of existence and came to life; Allis-Chalmers moving picture and brochure for customers, stockholders and employees. A. R. Tofte. Ptr Ink 199:59-60 Je 5 '42

Advertising goes all out for war effort; Philco continues magazine campaign. il Ptr Ink 199:15 Ap 24 '42

Blue book; case histories of noteworthy advertising successes. 151p Bur. of advertising, Am. newspaper publishers assn, New York '41

Campaign advertising. J. Steagall. J Retailing 18:67-73 O '42

Campaigns and marketing. Published in semi-monthly numbers of Sales management

Cash offer wins fast turn-in of old merchandise; Devoe & Raynolds company, scrap collection drive for paint brushes. il Ptr Ink 200:46-7 S 4 '42

Hart, Schaffner & Marx sells civilian clothes to men in khaki. il Sales Management 51:56 S 15 '42

Humorous trade characters spotlight major sales points; Coopers, inc. il Ptr Ink 198:37 F 13 '42

Industry's war on waste of time, labor and materials exemplified in Disston's campaign; cards instruct in care and use of tools. W. Gebhart. Ptr Ink 198:19-20 F 13 '42

Largest promotion in history skyrockets dinnerware sales for Marshall Field. il Cer Ind 39:42-4 O '42

Marlboro cigarettes provide theme for fashion advertising. il Ptr Ink 200:21 S 11 '42

New campaigns show advertisers' ingenuity. Ptr Ink 198:98-9 F 6 '42

Nickel, nickel, nickel; the fulsome, fantastic story of the rise of Pepsi-Cola. A. J. Stewart. il Adv & Sell 35:13-15+ S '42

Sets pattern of advertising for rubber processors; O'Sullivan rubber co. campaign to promote shoe repair. il Ptr Ink 199:32 My 15 '42

Specific ways to tie-in national campaign at point of sale; Printers' Ink Monthly special study. il Ptr Ink Mo 43:18-21+ D '41

Surface Combustion campaign creates new thinking on deliveries. il Ind Marketing 26:19-20 D '41

This tool advertising is done in newspaper tabloid style; Chicago pneumatic tool company. J. A. Murphy. il Ptr Ink 198:15+ Mr 27 '42

Van Camp's open 105 markets for Tenderoni in less than 90 days. il Sales Management 51:24 Ag 1 '42

See also

Advertising, Association

Money raising campaigns

Special weeks

Merchandising weeks and days of 1942. Adv & Sell 35:52+ Ja '42

1942 merchandising days and weeks. Ptr Ink 197:59-60, 62 N 21 '41

Sew and save, war-time theme for Needlecraft bureau and sponsors. il Ptr Ink 198:36+ Mr 6 '42

Testing

Most effective appeal for volume usage of a product; ingenious testing methods employed by Dennison. W. A. Sturgis. il Ptr Ink 200:20-2+ S 4 '42

ADVERTISING cards

Car card advertising. Bus Transportation 21:366-7 Ag '42

Car cards come to life. il Sales Management 50:17 Mr 1 '42

Car cards; does anybody read 'em? il Bus Transportation 21:138 Mr '42

Tell this to the car-card skeptic; experience of the Grand Central (Los Angeles) public market. Bus Transportation 21:181 Ap '42

Transit rise to 20 billion fares reflects markets' rapid growth. Sales Management 51:36+ N 1 '42

23 minutes of selling time. M. Hackathorn. il Adv & Sell 35:24, 84 N '42

Van Camp's open 105 markets for Tenderoni in less than 90 days. il Sales Management 51:24 Ag 1 '42

See also

Show cards

ADVERTISING characters

For these serious times, industrial advertiser chooses lighter touch; Gardner-Denver company. B. P. Spann. il Ptr Ink 198:15+ Mr 13 '42

Hard-working trade character; Mr Q. il Ptr Ink 200:48 Jl 3 '42

Humorous trade characters spotlight major sales points; Coopers, inc. il Ptr Ink 198:37 F 13 '42

They laughed when I went into selling; the life story of Elsie the cow. S. Peabody. il Adv & Sell 35:15-17+ Je '42

ADVERTISING contracts

See also

Advertising agencies—Contracts

ADVERTISING copy

Ad man in camp; army as proving ground for appeals that move men in the mass. E. B. Stern. Adv & Sell 35:18+ Je '42

Advertising in 1942 will be different; defense theme, patriotic appeal, institutional advertising, stockholders. C. Norton. il Ptr Ink 197:23-7 D 5 '41

Aircraft future as copy theme; Wright Aeronautical's 1942 advertising campaign. il Ptr Ink 200:15 Jl 24 '42

Awards for technical excellence of copy. il Adv & Sell 35:28-30 F '42

Black and white, with simple message; for new line of all-steel kitchens. W. W. Suitt. il Ptr Ink 197:18-20 N 28 '41

Challenge to copy-testing; methods must keep pace with new objectives. L. O. Pratt. Ptr Ink 199:21 My 1 '42

Copy clinic. E. B. Smith. Published in monthly numbers of Advertising and selling

Copy writers' note: people are most interested in themselves. R. Manville. Ptr Ink 201:58 O 16 '42

Getting attention in industrial copy. E. Peterson. il Ptr Ink 200:16-17 Ag 28 '42

Hang your heads, you advertisers; copy teaching the easy way of living. W. J. Weir. Ptr Ink 201:15 N 6 '42

How to find strongest selling argument for your product; Marlin razor blade advertising; split-run testing. R. Manville. il Ptr Ink 198:16-18+ Mr 13; 28, 30+ Mr 27 '42

How to pack pull into your classified advertising copy. T. H. Thompson. il Sales Management 50:32-6 Je 1; 66, 68-9 Je 15 '42

How to write a good advertisement; ask for action. V. O. Schwab. il Ptr Ink 197:31-3, 36-8 D 26 '41

How to write a good advertisement; get attention. V. O. Schwab. il Ptr Ink 197:18-22 N 14 '41

How to write a good advertisement; persuade them to grasp advantage. V. O. Schwab. Ptr Ink 197:38, 42-3, 46-7 D 19 '41

How to write a good advertisement; prove it. V. O. Schwab. Ptr Ink 197:33+ D 5 '41

How to write a good advertisement; show people an advantage. V. O. Schwab. Ptr Ink 197:58-9, 62+ N 28 '41

Industrial copy dons overalls. M. K. Powers. Adv & Sell 35:42 Ap '42

Information in advertising. K. Dameron. Harvard Business R 20 no 4:482-95 [Jl] '42

Information in advertising, a study of information in manufacturers' advertising and sales promotion. 84p $2.50 Committee on consumer relations in advertising, 420 Lexington av, New York '41

Inspired writing comes from the heart. G. W. Cecil. Adv & Sell 35:18+ O '42

Local advertisers develop ingenious copy angles. il Ptr Ink 198:58+ Mr 6 '42

Not Genesis V, please! analysis of tell-all principle of industrial advertising copy for those who take it literally. E. L. Andrew. Ind Marketing 27:17+ Mr '42

Personality, in copy and script. T. H. Thompson. Ptr Ink 200:66 S 4 '42

Sales-testing thrives in today's market. F. R. Coutant. Adv & Sell 35:46+ Mr '42

These nine hooks can give real pulling power to copy. B. R. Brooker. Ptr Ink 201:23-4 O 2 '42

Trend in objectives and methods of industrial advertising. Ind Marketing 27:32-3+ Ja '42

Vice-president- in- charge-of- thinking- about-tomorrow; idea created for an advertisement developed to a nationwide movement of planning for peacetime. il Ind Marketing 27:23+ F '42

Wartime memo from a copy chief. J. T. Huntington. Adv & Sell 35:181-3 F '42

What buyers of electrical equipment want in advertising copy; twenty-one men pass judgment on over 1,000 pieces of advertising. L. W. Dunn. il Ind Marketing 27:18-20, 100-1 F '42

What engineers and contractors want in advertising copy; eight basic points. C. S. Wilkinson. il Ind Marketing 27:23-5+ Je '42

What industrial copy can teach consumer advertising. il Adv & Sell 35:24+ Je '42

What should a company advertise—today? General Electric survey. R. S. Peare. il Sales Management 50:18-21 My 1 '42; Same cond. Management R 31:173-5 My '42

See also

Advertisements—Testing

Advertising ethics

Sales letters

Conservation appeal

Conservation is advertised; eight industries contribute ideas for saving and giving longer life to products. Ptr Ink 198:61 Ja 30 '42

Relief-from-shortage copy enters with first-rationed food; seven advertising and sales managers tell why their firms use copy that ties in on the sugar shortage. il Ptr Ink 201:22, 25-6 O 9 '42

Credibility

Why they don't believe us. J. Benson. Adv & Sell 34:64+ D '41

Demonstrations and tests

So they can read it in the moonlight! documenting the advertising story. W. T. Laing. il Ptr Ink 201:16-17+ N 6 '42

Educational copy

See Advertising, Educational

Emotional appeal

Propaganda is not advertising; fact-trained agency men may short-change the intangibles. Adv & Sell 35:20-1 Je '42

Fashion appeal

Marlboro cigarettes provide theme for fashion advertising. il Ptr Ink 200:21 S 11 '42

Good-will copy

See Advertising, Educational; Advertising, Institutional

Headlines

See Advertisements—Headlines

Health appeal

Vitamin-saving nutrition theme rivets attention on modern gas cookery. J. S. Spaulding. il Am Gas Assn Mo 23:432-3 D '41

Language, style, etc.

After hours. C. Sloane. Ptr Ink 197:6 D 12 '41

After hours; President's freedom-of-the-seas speech. K. H. Thompson. Ptr Ink 197:6 D 26 '41

On talking down. D. P. Ketter. Ptr Ink 197:40 N 21 '41

Reading rhythm; a study of paragraph structure; readability of copy can be improved. N. B. Bjornson. Ptr Ink 197:47+ N 21 '41

Use of trade terms in advertising only double-talk to the housewife. P. Salisbury. il Sales Management 50:18-21 F 1 '42

War hyphen-time copy trend. J. B. Gray. Adv & Sell 35:30+ N '42

See also

Advertising copy writers

ADVERTISING copy—*Continued*

Length

Be brief, be bright, begone. R. Dickinson. Banking 34:25 My '42

Coupons in advertising prove to be mine of information. P. V. Barrett. il Ptr Ink 200: 22+ S 11 '42

Negative appeal

Coupons in advertising prove to be mine of information. P. V. Barrett. il Ptr Ink 200: 22+ S 11 '42

Patriotic appeal

After hours; improper use of war motif. Ptr Ink 198:64 Ja 23 '42

Premium offers

Don't save advertising; make it work! new customers won for packaged goods by offering them something extra to try the product. D. Jones. Sales Management 50: 16-18 Je 1 '42

Premiums are continuous sales stimulator; Pillsbury flour mills. il Ptr Ink 200:19-20 Jl 24 '42

Swift premium offer features wartime household guide. Ptr Ink 201:57 N 6 '42

Price appeal

Newspapers get big price control job; helping retailers to comply with ceiling price regulation and making anti-inflation copy. il Ptr Ink 200:20-1 S 25 '42

Reason appeal

Finding and using the sales idea. M. Wiseman. il Ptr Ink 198:21-3+ Ja 9 '42

How to write a good advertisement; prove it. V. O. Schwab. Ptr Ink 197:33+ D 5 '41

Service appeal

Advertises to share technical knowledge in all-out effort; MacDermid, incorporated. W. D. MacDermid. il Ptr Ink 198:21 Mr 6 '42

Industrial advertising switches from competitive to service theme; Parker-Kalon screws. E. Peterson. il Ptr Ink 198:21-2 F 20 '42

Testing

See Advertisements—Testing

Themes

Flexible advertising strategy proves worth today; tuna packer uses fresh copy themes to meet new emergencies. il Ptr Ink 200: 56 S 18 '42

Keep your eye on that teapot! link sales appeal to the future. A. Kimball. Ptr Ink 201:17-18+ O 30 '42

Technique for field research to determine the copy theme; talking to users about their problems. W. W. Garey. Ind Marketing 27: 21-2+ Ag '42

Thrift appeal

How to find most powerful selling argument for your product; Marlin firearms co. R. Manville. il Ptr Ink 198:28, 30+ Mr 27 '42

Time saving appeal

High speed war production brings strong industrial copy theme. il Ptr Ink 198:21-2+ Ja 16 '42

Use appeal

Gypsum house organs in publications do educational job; builders and architects shown how extensive line of USG products may be used to achieve desired results. H. O. Hayes. il Ind Marketing 27:20-1 Jl '42

War theme

Advertisers at war. il Ptr Ink 197:13-16, 63-5 D 19 '41

Advertising campaign that was bombed out of existence and came to life; Allis-Chalmers moving picture and brochure for customers, stockholders and employees. A. R. Tofte. Ptr Ink 199:59-60 Je 5 '42

Advertising goes all out for war effort; Philco continues magazine campaign. il Ptr Ink 199:15 Ap 24 '42

Advertising in armor. il Sales Management 50:18-21 Ja 15 '42

Advertising in the war; with 50 specimen advertisements. Adv & Sell 35:58-72 N '42

Advertising is far from all-out! A. Price. Adv & Sell 35:16+ Ap '42

Advertising that can help win the war at point-of-sale outlets. il Ptr Ink 199:18-19 My 1 '42

Constructive consumer help is wartime copy theme; 41 examples. il Ptr Ink 199:15-20, 76 Ap 10 '42

Copy based on letters from employees in service. il Ptr Ink 200:58 Ag 7 '42

Defense advertising? yes, but let's make it informative; Binghamton gas works. R. E. Williams. il Am Gas Assn Mo 24:9-10 Ja '42

Dress manufacturer promotes defense stamps. il Ptr Ink 197:55-6 D 26 '41

Eel Creek technique. J. Forsom. Adv & Sell 35:28 O '42

Emotional war copy puts Chicago bond and stamp sales over top. C. Bedell. il Ptr Ink 200:11-14 Ag 14 '42

Graphic promotion girds for war. il Ptr Ink Mo 43:40-1+ D '41

Home sewing advertising is on the mend; post-war continuation of brisk sales will require promotion. G. Murray. il Ptr Ink 200:23-4+ S 4 '42

How advertising solved a wartime problem for Armco; newspapers and business papers used. W. E. McFee. il Ind Marketing 27:33 F '42

How business can sell war to people, and why it must. W. J. Weir. Ptr Ink 199:19+ My 15 '42

How the war came to E. B. Smith. il Adv & Sell 35:44, 48 Ja '42

How will war affect American advertising? il Ptr Ink 198:24-5+ Ja 2 '42

Industrial copy sets pattern in advertising's war effort. il map Ptr Ink 199:21-2+ Ap 10 '42

John Citizen looks at wartime copy. S. S. Bowman. Adv & Sell 35:28+ O '42

Ladies disagree; are women people? C. Kellar. Adv & Sell 35:87 S '42

Let's stop kidding; the war is serious. K. Akers. Adv & Sell 35:32 N '42

Macy's campaigns to deter needless sales. il Adv & Sell 35:33 Je '42

Promotes savings in war bonds to pave way for postwar sales; Hotpoint merchandising project. G. H. Smith. il Ptr Ink 200:15-17 S 4 '42

Sell tomorrow today! promoting post-war products now; moving war bonds. F. Bohen. Ptr Ink 200:13-14+ Jl 24 '42

Sew and save, war-time theme for Needlecraft bureau and sponsors. il Ptr Ink 198: 36+ Mr 6 '42

Shall we go barefoot or not? two conflicting advertising headlines. E. Peterson. il Ptr Ink 201:15-16 O 9 '42

Store displays in wartime. H. Korman. il Mod Packaging 15:83-5+ My '42

Thought pattern for wartime copy. J. G. Schneider. Ind Marketing 27:28+ N '42

Trade-marks to the rescue! selling War stamps to masses. W. W. Wachtel. il Ptr Ink 200:11-18 Jl 17 '42

12 railroads start huge wartime advertising program; eastern lines newspaper campaign. G. A. Nichols. il Ptr Ink 201:13-16+ O 30 '42

War ads pull; analysis of Binghamton (N.Y.) readers. Business Week p54 Ap 11 '42

War advertising down under. il Ptr Ink 199: 18 My 29 '42

War advertising to dealers is fast finding itself. il Ptr Ink 199:56-9 Ap 10 '42

War-minded ads build wartime sales. Sales Management 51:34 Ag 1 '42

War production program yields industrial advertising theme. il Ptr Ink 199:18-19+ My 8 '42

Wartime good-will advertising, Australian style. il Ptr Ink 198:42 F 27 '42

ADVERTISING copy—War theme—*Continued*
War time themes for transit ads. il Transit J 86:100-3 Mr '42
What the war theme is doing to advertising readership. T. M. Shepard. il Adv & Sell 35:13-15 O '42
Where's the woman's angle in this war? S. Carewe. Adv & Sell 35:23 Ag '42

See also
Advertising and war

ADVERTISING copy writers
After hours; copy writers should be required to leave their swivel chairs. T. Lucas. Ptr Ink 197:6 D 5 '41
Copy clinic; keep 'em reading! war, a challenge to copywriters. G. Raphael. Adv & Sell 35:30, 32 Ag '42
E. B. Smith tells a fairy story. Adv & Sell 35:38, 40 Ap '42
Gallery; that egg, don herold. F. R. Bellamy. il Adv & Sell 35:28+ Je '42
Sappho of Seventh avenue. S. Jones. Adv & Sell 34:42, 44 D '41

See also
Egan, James William, jr.

ADVERTISING council
Advertising coordinates for war effort; council representing industry set up. Comm & Fin Chr 155:869 F 26 '42
Advertising council reports on progress. Ptr Ink 199:53-4 Ap 17 '42
Advertising front. Fortune 26:60+ N '42
Advertising roster; membership of industry-Washington liaison body. Business Week p48-9 F 21 '42
Advertising's war council. Ptr Ink 198:18 F 13; 32 F 20 '42
Impact of war on advertising. Adv & Sell 35:18-19 Jl; 19-21 S; 19-22 O '42
One for all and—; unified council formed by three major branches of advertising industry to act as liaison with Washington. Business Week p58-9 F 7 '42

ADVERTISING departments
Advertising managers find many leaks as war causes them to economize; field survey departments. P. Salisbury, ed. Sales Management 50:70-1 Je 15 '42
Planning to make your field trip a success; material for LeTourneau advertising. G. C. McNutt. il Ind Marketing 26:24-5+ D '41
Program for advertising manager, now; helping service and research departments; postwar planning. R. M. Oliver. il Ptr Ink 200:54-6 Jl 17 '42
War adds duties for advertising department. Ptr Ink 200:49 Ag 7 '42

ADVERTISING displays
American Lady builds strong promotion around perfect fit; Vital dimension plan. il Sales Management 50:59-61 Ja 15 '42
Award winners, 11th annual all-America package competition. il Mod Packaging 15:198-213 Ap '42
Display evolves from package. il Ptr Ink 198:26 Ja 2 '42
Display gallery. Published in monthly numbers of Modern packaging
Displays in a frozen market; Zenith radio corp. il Mod Packaging 16:78+ O '42
Displays made of paper open a new market for Marquardt & co.; Ugo Mochi, creator. il Sales Management 51:22-3 O 20 '42
Dolls prove the power of miniature; hosiery window displays. M. C. Tucker. il Mod Packaging 15:74-6+ Ja '42
Drawn rigid plastic containers and displays. il Mod Packaging 15:83-4, 86 Ja '42
Educating the people to war. il Mod Packaging 15:67-70+ Ag '42
Market shot, materials short, but Gardner ingenuity comes through. G. W. Roland, jr. il Sales Management 49:62+ D 1 '41
Mechanical book. il Mod Packaging 15:84 Je '42
Millions of impressions can become sales. J. J. Jacobson. il Mod Packaging 15:69-71 Ja '42
Store displays in wartime. H. Korman. il Mod Packaging 15:83-5+ My '42
Three dimensional displays gain favor. il Ptr Ink 200:19 Jl 3 '42
Window links in advertising; window display in relation to other advertising. C. Percy. il Mod Packaging 16:63-6 N '42

See also
Advertising, Point-of-sale

ADVERTISING ethics
Cigarette ads hit; FTC complaints strike at vitals of whole business. Business Week p24+ Ag 15 '42
Cigarette companies accused by Federal trade commission; Philip Morris and Reynolds named in charges involving questionable advertising practices and misrepresentation of product. Ptr Ink 200:52+ Ag 14 '42
Cigarettes panned; Reader's Digest attack. Business Week p58 Jl 11 '42
Copy clinic; printed lying. Adv & Sell 35:32+ O '42
F.T.C. accuses two more cigarette manufacturers; Lucky Strike and Pall Mall. Ptr Ink 200:56-7 S 4 '42
Hang your heads, you advertisers; copy teaching the easy way of living. W. J. Weir. Ptr Ink 201:15 N 6 '42
How the advertising mind works; foresight, altruism, humanity, honesty, lift. K. Groesbeck. Ptr Ink 201:15-16 O 16 '42
John Powers made the literal truth pay. F. Finney. Adv & Sell 35:189-90 F '42
Misleading ads more than one per cent. C. H. March. Adv & Sell 35:68+ Ap '42
New check list of FTC taboos; June, 1941 to March, 1942. Adv & Sell 35:28, 30+ Jl '42
New standards for advertising credit. Adv & Sell 35:63 Ag '42
Tobacco manufacturers answer F.T.C. charges. Ptr Ink 201:68 O 9 '42
Truth in advertising. Consumers' Research Bul 9:29 N '41
What industrial copy can teach consumer advertising. il Adv & Sell 35:24+ Je '42
Why they don't believe us. J. Benson. Adv & Sell 34:64+ D '41

See also
Advertising—Laws and regulations

ADVERTISING federation of America
Convention, New York. Ptr Ink 200:29-30 Jl 3 '42

ADVERTISING guild
Impact of war on advertising. Adv & Sell 35:19-20 Jl '42

ADVERTISING literature
Classes in distributive education ask selling helps from manufacturers. Sales Management 49:24-6, 28+ D 15 '41
How to use printed material in the sales meeting. E. J. Hegarty. Ptr Ink 199:34+ Je 5 '42

See also
Advertisements—Books and booklets
Advertising—Schools, Appeal to

Bibliography

Business tips; literature of interest to executives. Published in monthly numbers of American business
Free for the asking. Published in monthly numbers of Textile world
Industrial literature. Published in semimonthly numbers of Chemical and engineering news
Manufacturers' latest publications. Published in monthly numbers of Chemical & metallurgical engineering
Manufacturers' literature. Published in monthly numbers of Metals and alloys
New catalogs, booklets, bulletins; 379 items covering equipment and supplies used by power engineers. Power 85:986-93+ Mid-D '41
What's new in manufacturers' literature; metals, metal work, equipment, etc. Metal Prog 41:106, 108, 110 Ja '42 [cont monthly]

ADVERTISING managers
Headaches for the ad manager. J. M. Campbell. Adv & Sell 35:120 N '42

ADVERTISING mediums

Better business bureau for media? R. J. McAndrews. Adv & Sell 35:74 Ja '42

Circulation is up for all major advertising media. Business Week p52+ Mr 7 '42

Daily newspaper and its competitors; magazine and radio. P. F. Lazarsfeld. Ann Am Acad 219:32-43 Ja '42

How war is changing reading and listening habits. B. Duffy. Adv & Sell 35:13-15+ My '42

Impact of war on advertising; an agency all-employee conference; use of special media in coming era of advertising. Adv & Sell 35:18-20 Ag '42

Media and agency news. Published in semi-monthly numbers of Sales management

Metropolitan districts and advertisers. F. R. Coutant. map Ptr Ink 198:54-8 Ja 9 '42

National advertising media revenue, 1941 vs. 1940. Business Week p38 Ja 24 '42

Review and forecast. il Adv & Sell 35:69-130 F '42

Transit rise to 20 billion fares reflects markets' rapid growth. Sales Management 51: 36+ N 1 '42

Who determines type and selection of media; Printers' Ink jury of marketing opinion. Ptr Ink 198:24, 26 Ja 9 '42

Window links in advertising; window display in relation to other advertising. C. Percy. il Mod Packaging 16:63-6 N '42

See also

Advertising—Rates
Advertising, Soliciting of
Moving pictures in advertising
Radio advertising
Show windows
Slide films
Television advertising

Advertising

Media! here's how your promotion can be improved! 110 advertisers (members of P.I. jury) offer suggestions and criticisms. Ptr Ink 200:19-20, 24 Jl 17 '42

What advertisers think of consumer media promotion. Ptr Ink 200:13-15 Jl 3 '42

What advertisers want in business-paper promotion. Ptr Ink 200:22-3 Jl 10 '42

Why advertisers save media promotion. Ptr Ink 200:22+ Jl 24 '42

Children's periodicals

Youth magazines unite to sell markets tomorrow and today. Sales Management 51: 56 O 1 '42

Envelopes

Envelopes an advertising medium in old days. E. M. Kelley. il Inland Ptr 108:29-31 F '42

Illustrating the package on envelopes. E. M. Kelley. il Mod Packaging 15:294-5 Ap '42

Farm papers

Does advertising in farm magazines pay? Sales Management 50:25 Ja 1 '42

Farm-paper linage; figures for January monthlies and linage for December publications. Ptr Ink 198:67-8 Ja 16 '42 [cont monthly]

Farm publications; advertising linage, three semi-annual totals, 1940-1942. Ptr Ink 200: 64 Jl 31 '42

Farm publications advertising linage; 3-year comparative totals. Ptr Ink 198:74 F 6 '42

Leading advertisers of 1941 and their expenditures; 401 companies invested $252,590,053. Ptr Ink 198:41+ F 6 '41

Review and forecast; magazines and farm publications. G. E. Cole. il Adv & Sell 35: 69-70, 72, 74 F '42

Motor buses

Car card advertising. Bus Transportation 21: 366-7 Ag '42

Motor trucks

Truck design promotes product nationally; National dairy products corp. il Food Ind 14:68-9 O '42

See also

Exhibits, Traveling

Newspapers

Advertising in British newspapers. Adv & Sell 35:66+ Je '42

Attention; a collection of the advertisements. 2v 111p; 111p Bur. of advertising, Am. newspaper publishers assn, New York '41

Brokerage plan for newspaper space. Ptr Ink 197:16 D 26 '41

From radio's book; selling blocks of space over newspaper networks. Business Week p48 Ja 10 '42

Hey, Mr Publisher, how about a better deal for national? B. E. Tacks. Sales Management 50:24 Ap 20 '42

Monthly index of newspaper advertising; graph. Ptr Ink 198:45 Ja 23 '42 [cont monthly]

Newspaper executives plan war advertising hookup. Ptr Ink 201:24+ O 23 '42

Newspaper representatives form national association. Ptr Ink 201:46 O 23 '42

Press and advertising. C. L. Allen. Ann Am Acad 219:86-92 Ja '42

Review and forecast. B. C. Duffy. il Adv & Sell 35:99-100, 102, 104 F '42

Sun reckoning; new Chicago paper gives voluntary rebates to advertisers. Business Week p67-8+ Jl 25 '42

12 railroads start huge wartime advertising program; eastern lines newspaper campaign. G. A. Nichols. il Ptr Ink 201:13-16+ O 30 '42

Why buy the whole loaf if you need only the upper crust? mass vs. class newspaper space buying. B. E. Tacks. Sales Management 49:64 N 15 '41

Periodicals

Advertisements in Science. Science 95:224-5 F 27 '42

Better sampler; Magazine marketing service tries out testing answers against census data. Business Week p48+ My 2 '42

Controlled techniques for magazine audience measurement. D. B. Lucas. il Adv & Sell 35:16-17, 114+ N '42

Cost of getting readers for full-, half-, and bleed-pages. E. L. Deckinger. Adv & Sell 35:25-6 Mr '42

How long do readers read? Sales Management 50:54 Ja 1 '42

How size of editorial section affects ratings of ads. J. F. Kurie. Adv & Sell 35:28 Ap '42

January magazine advertising, 1940-1942. Ptr Ink 198:74, 76, 78 Ja 9 '42 [cont monthly]

Leading advertisers of 1941 and their expenditures; 401 companies invested $252,590,053. Ptr Ink 198:41+ F 6 '42

Magazine linage; five semi-annual totals, 1938-1942. Ptr Ink 200:58+ Jl 31 '42

Magazine linage; total linage for five years, 1937-1941. Ptr Ink 198:75-6 F 6 '42

Magazines are selective; combined coverage of four major weeklies; pictograph. Sales Management 49:44 N 15 '41

Monthly index of magazine advertising; graph. Ptr Ink 198:53 Ja 9 '42 [cont monthly]

Review and forecast; magazines and farm publications. G. E. Cole. il Adv & Sell 35: 69-70, 72, 74 F '42

Seasonal variations in the visibility of advertising; percentage of magazine readers seeing 2-column black-and-white advertisement; tabulation by months. J. F. Kurie. Adv & Sell 35:23 Jl '42

Statement by National publishers assn. on magazine situation. Ptr Ink 198:18 F 13 '42

Rapid transit lines

Transit rise to 20 billion fares reflects markets' rapid growth. Sales Management 51: 36+ N 1 '42

23 minutes of selling time. M. Hackathorn. il Adv & Sell 35:24, 84 N '42

Trade journals

Advertising gains. Business Week p20 F 7 '42

Awards for advertisements appearing in business publications. il Adv & Sell 35:18-20 F '42

ADVERTISING mediums—Trade journals—*Continued*

504 agencies placed 213,831 pages in business papers in 1941; tabulation, 1940, 1941. Ind Marketing 27:16-20 S '42

Gypsum house organs in publications do educational job; builders and architects shown how extensive line of USG products may be used to achieve desired results. H. O. Hayes. il Ind Marketing 27:20-1 Jl '42

Industrial Marketing 1942 market data book number. Ind Marketing 26:1-394 O 25 '41

Making publication advertisements do double duty; Irvington varnish and insulator company mailing pieces. M. C. Beckman. il Ind Marketing 27:27+ Mr '42

Review and forecast; business publications. R. L. Wensley. il Adv & Sell 35:125-6, 128, 130 F '42

Scoring the comparative values of business papers. G. C. McNutt. Ind Marketing 27:30-1+ O '42

Seven ways to thwart ignorance—the saboteur. S. Hopper. il Ind Marketing 27:22-4, 66+ Ap '42

Technique for field research to determine the copy theme; talking to users about their problems. W. W. Garey. Ind Marketing 27:21-2+ Ag '42

Those industrious VanDiver boys; compiling Brad-Vern reports on advertising in the business press. P. James. il Adv & Sell 35:24 S '42

What advertisers want in business-paper promotion. Ptr Ink 200:22-3 Jl 10 '42

See also

Advertising—Industries, Appeal to

Women's periodicals

Busy, buying business gal. Sales Management 49:74, 76 D 15 '41

3,600,000 market baskets. Sales Management 49:84 D 1 '41

Women's magazines; total linage, 1937-1941. Ptr Ink 198:76, 80 F 6 '42

ADVERTISING men

See also

Advertising agencies
Advertising managers
Advertising copy writers
also Kesten, Paul

ADVERTISING novelties

Fifteen-year-old letter program; gadget letters of Fulton-Wassell paper company, Little Rock, Arkansas. L. P. Bott, jr. Am Business 12:12-13+ Ag '42

ADVERTISING policies

Advertising managers find many leaks as war causes them to economize; field survey departments. P. Salisbury, ed. Sales Management 50:70-1 Je 15 '42

Advertising programs for products with selected distribution; an analytical study of the place of general advertising, dealer cooperative advertising, and dealer helps in promotional programs. J. D. Scott. 112p pa $1.50 Harvard univ, Graduate school of business administration, Soldiers Field, Boston, Mass. '42

Certified grocers stand pat: push national brands, continue advertising. J. M. Yunker. Sales Management 50:24-6 F 15 '42

Clearly defined sales and advertising tasks guide Dow's marketing; departmental sales groups, business papers, and general media advertising. R. A. Brewer. il Ind Marketing 27:18-19+ Je '42

Duff's hot weather advertising ends traditional summer slump for Gingerbread mix. Sales Management 51:36 S 1 '42

Find out what dealers don't like about your advertising! policy of fire insurance advertising manager. J. W. Mason. Ptr Ink 199:23-4+ My 1 '42

42 questions for limited budget advertiser to ask himself. J. Reiss. Ptr Ink 197:25+ N 21 '41

Increased business paper schedules feature 1942 programs; plans are mixed for direct mail, catalogs, and other sales promotion material but service is the keynote. il Ind Marketing 27:22-5, 100-9 Ja '42

Keep your eye on that teapot! link sales appeal to the future. A. Kimball. Ptr Ink 201:17-18+ O 30 '42

Merchandising check list for war. Adv & Sell 35:42+ Ja '42

More advertisers outline their programs for 1942. Ind Marketing 27:94-8 F '42

Promotion to hold customer interest; Hines lumber company. F. C. Minaker. il Am Business 12:40, 42 Mr '42

Real problems facing advertising. Adv & Sell 34:22-7 D '41

$10 million worth of dancing lessons; story of Arthur Murray, advertiser. E. Peterson. il Ptr Ink 197:11-13+ N 28 '41

Who determines type and selection of media; Printers' Ink jury of marketing opinion. Ptr Ink 198:24, 26 Ja 9 '42

Why does General Foods advertise? the company explains to stockholders. Sales Management 50:50-2+ My 15 '42

See also

Advertising—Continuity
Advertising—Market selection
Advertising appropriations
Advertising mediums

ADVERTISING portfolios

Advertising portfolio, catalog and display all in one; Barrett division, Allied chemical & dye corp. il Ptr Ink 199:40 My 29 '42

ADVERTISING research

Awards. il Adv & Sell 35:47-53 F '42

Controlled techniques for magazine audience measurement. D. B. Lucas. il Adv & Sell 35:16-17, 114+ N '42

Effect of product interest on advertising readership. M. Harper, jr. il Adv & Sell 35:34+ O '42

How size of editorial section affects ratings of ads. J. F. Kurie. Adv & Sell 35:28 Ap '42

Technique for field research to determine the copy theme; talking to users about their problems. W. W. Garey. Ind Marketing 27:21-2+ Ag '42

War ads pull; analysis of Binghamton (N.Y.) readers. Business Week p54 Ap 11 '42

What consumers really think about advertising. D. Starch. Ptr Ink 200:26-7 Jl 24 '42

What kind of slogan and trade-mark do women most easily remember? il Sales Management 49:26-8+ D 1 '41

What should a company advertise—today? General Electric survey. R. S. Peare. il Sales Management 50:18-21 My 1 '42; Same cond. Management R 31:173-5 My '42

When to advertise in Miami and Seattle; a study of Federal reserve board reports, 1936 through 1940. C. E. Haring. Adv & Sell 35:24 Jl '42

See also

Market research
Radio advertising—Research

ADVISORY councils

Advisory bodies; a study of their uses in relation to central government, 1919-1939. R. V. Vernon and N. Mansergh, eds. 520p $5 Norton '40

AERATION

Catalytic oxidation of sulfite waste liquor by atmospheric oxygen. I. A. Pearl and H. K. Benson. bibliog Ind & Eng Chem 34:436-8 Ap '42

See also

Water—Aeration

AERIAL bombs. See Bombs, Aerial

AERIAL mapping. See Mapping, Aerial

AERIAL photography. See Photography, Aerial

AERIAL ropeways. See Cableways

AERIAL tramway. See Cableways

AERODYNAMIC laboratories. See Aeronautic laboratories; Wind tunnels

AERODYNAMICS

Aerodynamic forces on suspension bridges; their effect in producing oscillations; report on failure of Tacoma Narrows bridge. il diags Can Eng R & B 79:24-5+ D '41

AERODYNAMICS—*Continued*

Aerodynamics for model aircraft. A. Zier. 259p $3 Dodd '42

Airscrews for high-speed aircraft. F. Weinig. Roy Aeronautical Soc J 46:115-24 My '42

Biological and aerodynamical problems of animal flight. E. von Holst and D. Kuchemann. diags Roy Aeronautical Soc J 46:39-56 F '42

Die ebene potentialströmung um allgemeine dicke tragflügelprofile (two-dimensional potential flow past an ordinary thick wing profile); abstract. Aeronautical Eng R 1:81 S '42

Elementary aerodynamics; a textbook for students. D. C. M. Hume. 136p $1.50 Pitman '41

Elements of practical aerodynamics. B. Jones. 3d ed 459p $3.75 Wiley '42

Predicting parasite drag. W. N. Hammond. il diag Aero Digest 40:224, 226+ My '42

Prediction of downwash and dynamic pressure at the tail from free-flight measurements; abstract. E. Eujen. Aeronautical Eng R 1:93 Ag '42

Propeller forces due to yaw and their effect on airplane stability. L. B. Rumph, R. J. White and H. R. Grummann. J Aeronautical Sci 9:465-70 O '42

Propeller-tip interference due to the proximity of a fuselage. A. Gail and H. Lu. diags J Aeronautical Sci 9:11-16 N '41

Reaction of an elastic wing to vertical gusts. W. R. Sears and B. O. Sparks. bibliog J Aeronautical Sci 9:64-7 D '41

Simple aerodynamics and the airplane. C. C. Carter. 5th ed 510p $4.50 Ronald press '41

Simple experiments in the theory of flight. M. C. Nokes. 75p $1.25 Ryerson press '41

Simplified two-dimensional theory of thin airfoils. H. J. Stewart. J Aeronautical Sci 9:452-6 O '42

Symmetrical potential flow of compressible fluid past a circular cylinder in the tunnel in the sub-critical zone; abstract. E. Lamla. Aeronautical Eng R 1:91 Ag '42

Theoretical correction for the lift of elliptic wings. R. T. Jones. bibliog J Aeronautical Sci 9:8-10 N '41

Three-dimensional flutter analysis. W. M. Bleakney. bibliog J Aeronautical Sci 9:56-63 D '41

Vector methods of flutter analysis. W. M. Bleakney and J. D. Hamm. bibliog J Aeronautical Sci 9:439-51 O '42

See also

Aeronautic research
Aeronautics
Air flow
Airfoils
Airplane propellers
Airplane stability and stabilizers
Airplane wings
Airplanes—Design
Aviation
Electric lines—Wind load
Gliding and soaring
Rocket propulsion
Ship resistance
Turbulence
Wind power
Wind tunnels

AEROGELS. See Colloids

AERONAUTIC engineering

Approximate method to predict the transition or flare flight path in the take-off or landing of an airplane. O. Welling. J Aeronautical Sci 9:17-23 N '41

Automotive body engineer in aircraft. J. C. Widman. S A E J 50:209-11 Je '42

Characteristics and aircraft applications of wire resistance strain gages. A. V. de Forest. il Instruments 15:112-14+ Ap '42

Design of rotor blades. R. H. Prewitt. diags J Aeronautical Sci 9:255-60 My '42

Engineering liaison and production control. D. U. Kudlich. il diags S A E J 50:169-76 My '42; Excerpts. Automotive Ind 85:21-3 N 15 '41

Engineering problems of air cargo transportation. R. D. Kelly and W. W. Davies. S A E J 50:492-8 N '42; Same cond. Aero Digest 40:110, 159-68 Ap '42; Abstract. Automotive & Aviation Ind 86:34-5 My 15 '42

Engineering progress and cost control; relationship between the respective functions of cost and weight control. E. E. Roberts. Aero Digest 40:188, 191+ My '42

Institute of the aeronautical sciences 10th annual meeting, New York. Automotive & Aviation Ind 86:28-9+ F 15 '42; Aviation 41:66-7+ Mr '42

Organization for weight-control. J. E. Ayers. Aero Digest 41:166, 168+ Jl '42

Post-war prospects in the light of present developments. G. F. Nordenholt. il Product Eng 13:308-11 Je '42

Precision autographic data-plotting method. F. S. Eastman. il diag Instruments 15:116, 118, 120-1 Ap '42

Society of automotive engineers, National aeronautic meeting, New York, March 12-13. Automotive & Aviation Ind 86:18-25+ Ap 1 '42; S A E J 50:sup22-3, 33-8 Ap '42

Tenth annual meeting of the Institute of the aeronautical sciences; review of technical papers. A. Klemin. diags J Aeronautical Sci Aeronautical R Sec 9:9-17 Mr '42

Theory of aircraft undercarriages in relation to absorption of initial landing impact. P. B. Walker. diags Roy Aeronautical Soc J 46:186-97 Ag '42

War production of aircraft; subject of joint meeting of the Detroit section, Society of automotive engineers and the Engineering society of Detroit. il Aviation 41:104-7, 323-4 Jl '42

See also

Aerodynamics
Aeronautic research
Aeronautics
Air lines
Airplane engines
Airplanes
Airports
Airways
Aviation
Flying boats
Seaplanes

Bibliography

Abstracts from the scientific and technical press. Published in monthly numbers of Royal aeronautical society journal

Index of abstracts from the scientific and technical press, December 1940 to November 1941. Roy Aeronautical Soc J 45:481-99 D '41

Periodical articles, government publications, books, library accessions, house organs and catalogues. Aeronautical Eng R 1:15-55 Ap '42 [cont monthly]

Slots and flaps; bibliography giving references for research. J Aeronautical Sci Aeronautical R Sec 9:58-61 F '42

Study and teaching

Course content in aircraft structures. N. J. Hoff. J Eng Educ 32:833-40 Je '42

Evolution of aeronautical engineering education. M. J. Thompson. J Eng Educ 32:313-17 D '41

Galcit; Guggenheim aeronautical laboratory and Daniel Guggenheim graduate school of aeronautics; California institute of technology. C. B. Millikan and E. W. Robischon. il Aero Digest 40:146, 150+ Ja '42

Training engineers for the aircraft engine industry; government sponsored course at University of Kentucky. A. J. Meyer. il Automotive Ind 86:20-2+ Ja 15 '42

What is education in aeronautical engineering? A. Klemin. J Eng Educ 32:457-62 Ja '42

Tables, calculations, etc.

Aircraft speed dependent upon engine characteristics. W. Stepniewski. Aero Digest 40:214, 216, 218+ Mr '42

Calculation of the stresses in annular frames. H. Fahlbusch and W. Wegner. diags Roy Aeronautical Soc J 45:349-60 N '41

Calculation of the temperature field in the laminary boundary layer of an unheated body exposed to high speed flow; abstract. E. Eckert and O. Drewitz. Roy Aeronautical Soc J 46:341-2 O '42

Charting stability in aircraft. C. D. Perkins. Aviation 41:75, 78-9 Mr; 123, 125+ My '42

Correction of engine output to standard conditions. D. S. Hersey. diags J Aeronautical Sci 9:355-71 Ag '42; Excerpts. Automotive & Aviation Ind 86:28-34 Ap 15 '42

Improved longitudinal stability calculation. H. P. Liepmann. bibliog J Aeronautical Sci 9:181-4 Mr '42

AERONAUTIC engineering—Tables, calculations, etc.—*Continued*

Kinetic energy correction to predicted rate of climb. F. C. Phillips. bibliog J Aeronautical Sci 9:172-4 Mr '42

Load factors obtained on civil airplanes in acrobatic maneuvers. E. I. Ryder. bibliog diags J Aeronautical Sci 9:195-201 Ap '42

New pathways in aeronautical theory. R. V. Southwell. il diags J Aeronautical Sci 9:77-87; Discussion. 87-9 Ja '42

Rotor bending moments in plane of flapping. A. Klemin, W. C. Walling and W. Wiesner. J Aeronautical Sci 9:411-18 S '42

See also

Airplane engines—Design

Airplane stability and stabilizers

Airplanes—Design

AERONAUTIC engineers

Future prospects for employment of aeronautical engineers. J. D. Akermann. J Eng Educ 32:591-5 Mr '42

AERONAUTIC instruments

Aircraft instruments. C. F. Savage. il diag Gen Elec R 45:495-9 S '42

Aviation instrument manual. 396p $5 Chemical pub. co. '41

Aviation instruments; applications, operating principles, installation, maintenance. il Instruments 15:207-18 Je '42 [cont monthly]

Baynes speed range indicator. Aviation 41:114+ F '42

Flight; meteorology and aircraft instruments. B. Wright, W. E. Dyer and R. Martin. 348p $3.25 Am. technical soc, 58th st. & Drexel av, Chicago '42

Glider instrumentation. R. S. Eikenberry. diag Instruments 15:312-13 Ag '42

Link trainer; for the training of pilots in instrument flying. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub. co. '41

Pilots' and mechanics' aircraft instrument manual. G. C. DeBaud. 490p $4.50 Ronald press '42

Simple method of applying the compressibility correction in the determination of true air speed. W. C. Schoolfield. bibliog J Aeronautical Sci 9:457-64 O '42

Technique of aircraft bubble octant observations in flight. J. H. Ingram. il Aero Digest 41:125-6 S '42

Tenth annual meeting of the Institute of the aeronautical sciences; review of technical papers. A. Klemin. J Aeronautical Sci Aeronautical R Sec 9:15-16 Mr '42

Wind simulator for the Link trainer. E. Shumate. il Instruments 15:209 Je '42

See also

Aviation—Instrument flying

Direction finding apparatus

Radio apparatus on aircraft

Radio beacons

Radio compass

Sextant

Bibliography

Flight instruments; bibliography giving references for research. J Aeronautical Sci Aeronautical R Sec 9:49+ N; 51+ D '41

Cleaning

Selection and proper use of cleansing materials for aircraft instruments. Instruments 15:374 S '42

History

Old and odd aircraft instruments. il Instruments 15:218 Je '42

Maintenance and repair

American Airlines' four-year mechanics' course. R. H. Burck. il Instruments 15:98 Ap '42

Faulty instrument guide; trouble indicated, probable cause, remedial action; tabulation. Aviation 41:195 My '42

Functions of the TWA instrument department. W. P. Danke. il Instruments 15:102+ Ap '42

Government and Delta give an intensive course for aircraft instrument mechanics. C. F. Nisbet, jr. il Instruments 15:100-1+ Ap '42

How a great airline keeps its vital aircraft instruments clean. R. K. Farnham. il Instruments 15:122+ Ap '42

Instruments; repair, overhaul, testing, and calibration of aircraft and aero-engine instruments. R. W. Sloley. 4th rev ed 140p $2 Pitman '41

Intensive training relieves critical bottleneck of aircraft instrument overhaul. R. G. Ojers. il Instruments 15:266-7 Jl '42

Need of complete instrument service manuals. C. S. Gooch. Instruments 15:367+ S '42

Six-month intensive course trains civilians in army and navy aircraft instrument repair; Shelby County school of aeronautics. il Instruments 15:368, 370+ S '42

Statistical predictions on aeronautic instrument maintenance. C. Worsham. Instruments 15:372+ S '42

Manufacture

It can be done! Scott aviation corporation, formerly part-time basement machine shop, now producing aircraft instruments. il Aviation 41:217+ Jl '42

Testing

All-weather laboratory for testing bomber instruments; Sperry gyroscope company. F. A. Westbrook. il Heat & Ven 39:38 S '42

Grounded but fully animated airplane for checking and demonstrating instruments. il Instruments 15:210-11 Je '42

AERONAUTIC laboratories

All-weather laboratory for testing bomber instruments; Sperry gyroscope company. F. A. Westbrook. il Heat & Ven 39:38 S '42

Boeing stratochamber simulates stratosphere conditions, permits testing of equipment for high-altitude flying. Steel 110:42+ Ap 27 '42

Douglas aircraft company, inc. builds cold room for testing airplane parts. Heat & Ven 39:100 Ja '42

Douglas cold room. il Aviation 40:155 D '41

Galcit; Guggenheim aeronautical laboratory and Daniel Guggenheim graduate school of aeronautics; California institute of technology. C. B. Millikan and E. W. Robischon. il Aero Digest 40:146, 150+ Ja '42

Harnessing the stratosphere; new units to test aircraft parts and accessories. D. Tenney. il Aviation 41:137+ O '42

Lockheed pressure chamber; testing pressurizing equipment for high altitude flight. F. P. Dillon, W. Doble and H. A. Greenwald. il diags Aeronautical Eng R 1:13-15 S '42

NACA engine laboratory is world's largest. il Aviation 41:133+ S '42

New research facilities for NACA in three strategic locations. il Automotive & Aviation Ind 87:24-7+ Jl 15 '42

Production testing facilities of Allison division of General Motors. H. J. Buttner. il S A E J 50:444-9 O '42

Production testing of aircraft engines; power equipment. C. A. Chayne. il plan Power Pl Eng 46:102-4 My '42

Structures unit assures integrity of design; North American Aviation's structures laboratory. R. L. Schleicher. il Aero Digest 39:192 D '41

Testing propellers at Hamilton laboratories. N. B. Pope. il Automotive Ind 85:30-3+ D 15 '41

Troposphere; studies carried out near sea-level; cold room at Douglas aircraft factory. Sci Am 166:27-8 Ja '42

See also

Aeronautic research

Wind tunnels

Equipment

High-altitude test and calibration equipment. E. Lodwig. il Instruments 15:125-6 Ap '42

AERONAUTIC meteorology. See Meteorology, Aeronautic

AERONAUTIC research

Aeronautical research. J. C. Hunsaker. Franklin Inst J 234:133-6 Ag '42

AERONAUTIC research—*Continued*

Aircraft industrial research; Lockheed aircraft corp. M. Nelles. il Aero Digest 40:201-2, 205-6+ F '42

Five years in retrospect. J. B. McDonald. Aero Digest 40:242-7 Ja '42

Guggenheim gift for aeronautical research. Comm & Fin Chr 156:26 Jl 2 '42

National advisory committee for aeronautics; summary of annual report. Mech Eng 64: 227-8 Mr '42

Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46:64-85 Mr '42

See also
Aeronautic laboratories
Wind tunnels
also United States—National advisory committee for aeronautics

AERONAUTIC schools

Concrete masonry speeds construction of modern flying school; Roscoe Turner aeronautical corporation. il Concrete 50:6 Ap '42

Converting Miami; Army Air corps takes over five hotels in resort area. il Business Week p26 Mr 7 '42

How a great air army was built; in two years Canada has become the prime source of Empire pilots. il Fortune 25:83-7+ Ap '42

Operators solve problems of expanding air forces; flight department, Hawthorne school of aeronautics. W. D. Strohmeier. il Aviation 41:235-6+ S '42

Primary flight maintenance; civilian schools under contract to train army pilots; maintenance technique at Hawthorne school of aeronautics. W. D. Strohmeier. il Aviation 41:187, 189+ My '42

Producing maintenance men; Roosevelt aviation school. W. C. Erb. il Aviation 41:153, 155+ Ap '42

Randolph field; a history and guide. 156p $2 Devin-Adair co, New York '42

Salvaging aircrew trainees; Composite training school, Canadian royal air force. J. Montagnes. il Aviation 41:136-7+ Mr '42

Six-month intensive course trains civilian in army and navy aircraft instrument repair; Shelby County school of aeronautics. il Instruments 15:368, 370+ S '42

Wright engine service school. il Aero Digest 40:90, 93 Ap '42

Directories

Aviation's school directory. Aviation 41:222+ F '42

1941 bluebook of aviation schools. 34p pa 25c Southern flight, Dallas, Tex. '41

AERONAUTIC workers

Aeronautical occupations. B. Leyson. new rev ed 188p $2 Dutton '41

Air workers today. A. V. Keliher, ed. 56p $1 Harper '42

Salvaging aircrew trainees; Composite training school, Canadian royal air force. J. Montagnes. il Aviation 41:136-7+ Mr '42

See also
Aeronautic schools
Air lines—Employees
Airplane factories—Employees
Airplane mechanics
Aviators

AERONAUTICAL chamber of commerce of America

Unhappy landing. Business Week p14 N 7 '42

AERONAUTICAL sciences, Institute of the. See Institute of the aeronautical sciences

AERONAUTICAL weight engineers, Society of. See Society of aeronautical weight engineers

AERONAUTICS

Ad astra; Wilbur Wright memorial lecture; aeronautics from political angle and war and post-war use. J. T. C. Moore-Brabazon. il Roy Aeronautical Soc J 46:249-57 O '42

Aeronautics simplified; examination questions and answers together with a glossary of terms, illustrations and general instructions, compiled to aid applicants for airplane pilot certificates. E. G. Vetter. 3d ed rev 172p $1.50 Foster & Stewart pub. corp, 77 Swan st, Buffalo, N.Y. '40

Airmen's mathematics. M. J. G. Hearley and R. L. Smith. 115p 3s 6d Pitman '41

American student flyer. M. C. Hamburg and G. H. Tweney. 692p $1.50 Pitman '42

Aviation; a reading course and general reference work on first principles of flying, construction and maintenance of planes, aircraft engines, meteorology and aircraft instruments, mechanical and aircraft drafting, practical mathematics. B. Wright and others. 6v $19.80 Am. technical soc, Chicago '41

Awards for achievement in aeronautics; Institute of aeronautical sciences. Science 95:165-6 F 13 '42

Education for the air age. Aero Digest 40: 70+ My '42

Elements of aeronautics. F. Pope and A. S. Otis. 660p bibliog(p651-2) $3.75 Putnam '42

Elements of pre-flight aeronautics for high schools. 556p 96c Macmillan '42

From the ground up. S. A. F. MacDonald. 68p $1 Aviation service corp, Toronto '41

Getting them into the blue. E. K. Gann. 153p $2 Crowell '42

Ground instructor, covering general aeronautics. C. A. Zweng. 220p pa $3 McKnight & McKnight, Bloomington, Ill. '41

Handbook of aeronautics and ground instructor's aid. E. E. Bartholomew. 135p $2.75 Question-air system, Kilgore, Tex. '42

Man behind the flight; a grand course for aviation mechanics and airmen. A. Jordanoff. 276p $3.50 Harper '42

Obligation for the future. A. Kartveli. Aero Digest 40:124-5+ F '42

Principles of flight. B. A. Shields. 363p $1.88 McGraw-Hill '42

Science of pre-flight aeronautics for high schools. 868p $1.32; teachers manual pa 80c Macmillan '42

Wonder book of the air. C. B. Allen and L. D. Lyman. rev ed 340p $2.50 John C. Winston co, Philadelphia '41

See also
Aerodynamics
Air lines
Air travel
Airplane engines
Airplane propellers
Airplane stability and stabilizers
Airplanes
Airports
Airships
Airways
Aviation
Flying boats
Gliders
Helicopters
Mapping, Aerial
Meteorology, Aeronautic
Ornithopters
Photography, Aerial
Radio aids to aviation
Seaplanes

Bibliography

Abstracts from the scientific and technical press. Published in monthly numbers of Royal aeronautical society journal

Aeronautic training for national defense [folder]. Washington state library

Articles in foreign technical magazines. Published in monthly numbers of Aero digest

Aviation. 7p Long Beach public lib, Long Beach, Calif. '41

Aviation from the ground up [folder]. Public library, Business and industrial dept, 120 W. Wayne st, South Bend, Ind. '41

Elementary aeronautical books. 13p Lib. of Congress, Division of aeronautics, Washington, D.C. '41

Index of abstracts from the scientific and technical press, December 1940 to November 1941. Roy Aeronautical Soc J 45:481-99 D '41

Journal of the Royal aeronautical society, index to vol. 45. Roy Aeronautical Soc J 45:sup i-iv D '41

List of selected translations. Published in monthly numbers of Royal aeronautical society journal

AERONAUTICS—Bibliography—*Continued*

Periodical articles, government publications, books, library accessions, house organs and catalogues. Aeronautical Eng R 1:15-55 Ap '42 [cont monthly]

Reviews. Published in monthly numbers of the Royal aeronautical society journal

Titles and references of articles and papers selected from publications received in R.T.P.3 during September, 1941, together with list of new translations rendered available. Roy Aeronautical Soc J 45:407-28 N '41 [cont monthly]

Biography

Who's who in aviation; a directory of living men and women who have contributed to the growth of aviation in the United States, 1942-43. 486p $5 Ziff-Davis pub. co, 540 N. Michigan av, Chicago '42

Dictionaries

New alphabet of aviation. E. Shenton. $1.75 Macrae-Smith co, 1712 Ludlow st, Philadelphia '41

Simplified definitions and nomenclature for aeronautics. L. Thorpe. 1942 ed 189p pa $2 Aviation press, San Francisco '42

Examinations

Aeronautical training; a quiz system covering navigation, meteorology, aircraft, aircraft engines, air commerce regulations, including air traffic rules. C. A. Zweng. 14th ed 191p $3 Pan American navigation service, Los Angeles Metropolitan airport, Van Nuys, Calif; McKnight & McKnight, 109 W. Market st, Bloomington, Ill. '42

History

Aide in aerodromics; Charles Matthews Manly assistant to Samuel Langley. S. P. Johnston. il Tech R 44:218-20+ Mr '42

Aviation firsts in California. L. E. Read and G. B. Eastburn. il diag Aero Digest 40: 97-8, 100, 102+ Ja '42

Birth of flight; an anthology. H. K. Cook. 204p $2.50 Norton '42

Laws and regulations

Army gives rules for plane flights. Civil Aero J 3:1+ Ja 1 '42

Aviation control steps summarized. Civil Aero J 3:73, 80 Mr 15 '42

Board issues new defense rules for private flying. Civil Aero J 3:7 Ja 1 '42

Civil aeronautics board official actions; abstracts of opinions, orders, and regulations. Published in monthly numbers of Civil aeronautics journal

Legislation dealing with aeronautics, 77th Congress. Civil Aero J 3:66+ Mr 1 '42

New regulations for civilian aviation issued. Civil Aero J 3:45+ F 15 '42

Private flying and the war. Aviation 41:150+ Mr '42

Regulation of aviation; a case study in reorganization. C. C. Rohlfing. Ann Am Acad 221:56-63 My '42

Rigid enforcement of rules promised by CAA and CAB. Civil Aero J 3:153+ Ag 15 '42

State legislation relating to the development and control of aviation in New England. 2d rev ed 26p Nat. resources planning board, region 1, 2100 Federal bldg, Boston '42

Status of published parts of the civil air regulations and amendments; tabulation. Published in Civil aeronautics journal

Bibliography

Some books on air law. 3p Lib. of Congress, Division of aeronautics, Washington, D.C. '42

Patents

Patents review. Aviation 41:105 Ja '42 [cont monthly]

Trend of invention. Published in monthly numbers of Aero digest

Standards

Army-navy aeronautical standardization. D. G. Lingle and G. A. Seitz. diag S A E J 50:sup32-3, 66-80 N '42

42 SAE aircraft-engine standards approved by Aeronautics division. S A E J 50:sup 26-7 Ja '42

SAE aeronautical standardization program proceeding at rapid pace. S A E J 50:sup41 Je '42

Statistics

Certificated aircraft and pilots by states as of January 1, 1942; tabulation. Civil Aero J 3:48 F 15 '42

Study and teaching

Aeronautics at the University of Illinois. Science 96:266 S 18 '42

Education for the air age; a guide for teachers and administrators. N. L. Engelhardt, jr. 55p bibliog(p54-5) pa 24c Macmillan '42

First group here in Latin American training program. Civil Aero J 3:17+ Ja 15 '42

Resource units for teachers in pre-flight aeronautics. D. Castleberry, V. Walker and L. Turner, eds. 78p bibliog(p54) Burgess pub. co, 426 S. 6th st, Minneapolis '42

Schools to start preflight courses in fall term. Civil Aero J 3:165-6 S 15 '42

See also

Aeronautic engineering—Study and teaching
Aeronautic schools
Aviators—Training

Tables, calculations, etc.

Useful reference tables. Instruments 15:213-14 Je '42

Yearbooks

Aircraft year book for 1942. H. Mingos, ed. v24 693p $5 Aeronautical chamber of commerce of Am, New York '42

Brazil

Aviation in Brazil shows active progress. A. R. Hager. il map Aviation 41:58-9, 204+ Ja; 56-7+ Mr '42

Frontier by air; Brazil takes the sky road. A. R. Hager. 243p $3.50 Macmillan '42

California

Aviation firsts in California. L. E. Read and G. B. Eastburn. il diag Aero Digest 40:97-8, 100, 102+ Ja '42

United States

Cities must prepare for the flying age; abstract. W. Beadie. Pub Works 73:20+ O '42

Five years in retrospect. J. B. McDonald. Aero Digest 40:242-7 Ja '42

1941 best year in history of U.S. aviation. R. H. Hinckley. Civil Aero J 3:1+ Ja 1 '42

See also

Aeronautics, Commercial—United States
Aeronautics, Military—United States
Civil aeronautics board
Civil air patrol

AERONAUTICS, Commercial

Million-miler, the story of an air pilot. J. R. Tunis. 253p $2.50 Julian Messner, New York '42

Post-war civilian aviation expansion in western hemisphere foreseen. For Comm W 8:32 Ag 8 '42

Some economics of airports. W. W. Pagon. bibliog Am Soc C E Proc 67:153-67 F '41; Discussion. 67:1273-7; 68:157-8 S '41, Ja '42

See also

Air express service
Air lines
Air mail service
Air travel
Airplane industry and trade
Airplanes in mining
Airways
Photography, Aerial

Directories

American aviation directory; aviation officials and companies, United States, Canada & Latin America; second half, 1941. W. W. Parrish, ed. v2 no2 387p pa $3 Am. aviation associates, 300 American bldg, Washington, D.C. '41

AERONAUTICS, Commercial—Directories— *Continued*

American aviation directory; aviation officials and companies, United States, Canada & Latin America; spring-summer, 1942. W. W. Parrish, ed. v3 no 1 345p pa $5; 2 nos $7.50 Am. aviation associates, 300 American bldg, Washington, D.C. '42

See also
Aeronautic schools—Directories
Airplane industry and trade—Directories

International aspects

Aviation makes good neighbors; air transportation establishing vital trade relations and good neighbor policy with Latin American republics. L. E. Read. il Aviation 41: 54-5+ Ap '42

International air transport and national policy. O. J. Lissitzyn. 478p bibliog(p442-61) $5 Council on foreign relations, New York '42

Statistics

Backbone of aerial defense; ten years of civil air expansion. Aviation 41:86-9 F '42

Alaska

Commercial flying in Alaska. R. A. Ramme. il Aviation 41:58-9, 132 Mr '42

Latin America

Aviation makes good neighbors. L. E. Read. il Aviation 41:54-5+ Ap '42

United States

Air transport developments during 1941. W. Littlewood. Aeronautical Eng R 1:9-13 Ap '42

Air transportation in the United States, its growth as a business. H. Knowlton. 72p $1.25 Univ. of Chicago press '41

Airways; the history of commercial aviation in the United States. H. L. Smith. 430p bibliog(p405-30) $3.50 Knopf '42

Aviation in a war economy. S. Altschul. Aviation 41:131, 133 F '42

Backbone of aerial defense; ten years of civil air expansion. Aviation 41:86-9 F '42

Commercial air transportation. J. H. Frederick. 493p bibliog(p455-60) $4 R. D. Irwin, Chicago '42

Development of transportation in the United States. J. E. Teal. Am Soc C E Proc 67: 1839-41 D '41

Post-war possibilities; Fortune magazine round table. Sci Am 166:300 Je '42

Status of the air transport industry. W. A. Patterson. Aero Digest 39:128-9 D '41

See also
Air lines—United States
Airplane industry and trade—United States
Airports
Civil aeronautics administration

AERONAUTICS, Meteorological. See Meteorology, Aeronautic

AERONAUTICS, Military

Ad astra; Wilbur Wright memorial lecture; aeronautics from political angle and war and post-war use. J. T. C. Moore-Brabazon. il Roy Aeronautical Soc J 46:249-57 O '42

Air power and civilization. M. J. B. Davy. 202p 8s 6d G. Allen & Unwin, London '41

Air power changes sea war strategy. J. A. Ward. il Aero Digest 41:68-71+ Ag '42

Army flyer. H. H. Arnold and I. C. Eaker. 299p $2.50 Harper '42

Billy Mitchell, founder of our Air force and prophet without honor. E. Gauvreau and L. Cohen. 303p $2.50 Dutton '42

Defeating the bomber. H. E. Wimperis. 60p pa 25c J. M. Dent & sons, London '41

Fight for world air rule. J. A. Ward. il Aero Digest 40:72, 75+ Ap '42

Future of water-based airplanes. F. T. Courtney. il diags Aviation 41:91-3+ Jl; 93-5+ Ag; 116-19+ S; 122-3+ O; 122-3+ N '42

Prone flying has advantages for military purposes. A. Klemin. Sci Am 166:301 Je '42

Question of a separate air force. C. Caldwell. Aero Digest 39:70, 73-4 D '41

Strategy of air power; abstract. A. P. De Seversky. Aeronautical Eng R 1:32 Ag '42

Tactics and the aircraft carrier. H. W. Richmond. Engineering 154:143-4 Ag 21 '42

Utilizing air transports in tactical operations. G. A. Page, jr. Aero Digest 41:142-3+ S '42

Victory through air power. A. P. De Seversky. 354p $2.50; pa $1 Simon & Schuster '42; Review. Comm & Fin Chr 155:2210-11 Je 11 '42; Comment. H. E. Wimperis. Engineer 174:259-60 S 25 '42

War and aircraft maintenance. R. C. Stunkel. il Aviation 40:58-9+ D '41

Wings of defense. B. Leyson. 210p $2.50 Dutton '42

See also
Air raids
Airplanes, Military
Aviators, Military
Bombs, Aerial
Guns, Anti-aircraft
Naval air stations

Australia

Australia's aircraft industry helping RAAF expansion. il Aero Digest 40:82, 85, 87 My '42

Brazil

Brazil fostering air expansion. A. R. Hager. il Aviation 41:56-7+ Mr '42

Canada

British Commonwealth air training plan. il Aero Digest 40:76, 79-80 My '42

Germany

What's become of the luftwaffe? L. Zacharoff. il Aviation 41:98-9+ S '42

See also
Airplanes, Military—Germany

Great Britain

Letter from England. J. W. Morrison. il diags Aero Digest 39:50-3 D '41

Victory from the air. Auspex. 238p $4 S. J. Reginald Saunders, 84 Wellington st, W. Toronto '41

See also
Airplanes, Military—Great Britain

Japan

America at war. il maps Aviation 41:78-9+ F '42

Japanese air power. E. Speyer. il Aviation 41: 94-7+ S '42

See also
Airplanes, Military—Japan

Russia

1,100 pilots' schools exclusive of air force! information on strength of Russian air force. Aeronautical Eng R 1:31-2 Ag '42

Soviet air force after a year of war. N. Denisov. il Aviation 41:90-2+ Ag '42

They learned about parachuting from us; Russia got idea from American county fair. A. Barmine. il Aviation 41:142-3+ Mr '42

United States

Air corps learned plenty on maneuvers, but did the ground troops? G. Underhill. il Aviation 40:54-7+ D '41

America at war. il maps Aviation 41:52-3, 190 Ja; 78-9+ F '42

American air power. M. Mueller. 46p 1s J. Murray, London '42

American aircraft can win the war. O. P. Echols. il Mach 48:135-40 Jl '42

Army-navy aeronautical standardization. D. G. Lingle and G. A. Seitz. diag S A E J 50:sup32-3, 66-80 N '42

Awake, America! warning call for action written 16 years ago especially for Aero Digest by Colonel William L. Mitchell. Aero Digest 40:58 F '42

Awakening of air power; American air power is expanding faster than any other air force. il Aviation 41:102-3+ S '42

Building air power. O. P. Echols. il Tech R 44:367-8+ Je '42

Criticism of De Seversky's views of United States air force. D. R. Berlin. Steel 111:100 S 14 '42; Reply. 111:46 O 26 '42

AERONAUTICS, Military—United States— *Continued*

Department of national defense, we need it; letter reprinted from the October 1928 issue of Aero digest. W. F. James. Aero Digest 40:59-60+ My '42

Design for air supremacy. J. L. Atwood. Mech Eng 64:470-2 Je '42

Thunder aloft; U.S. air power today, tomorrow. K. Sagendorph. 300p $2.50 Reilly and Lee co, Chicago '42

Truth about our fighter planes and bombers. il Aviation 41:93-7+ O '42

Victory through air power. A. P. De Seversky. 358p $2.50; pa $1 Simon & Schuster '42

See also

United States—Air service

AEROPLANES. See Airplanes

AEROSOL bomb

Insecticides for the army; aerosol program. Soap & San Chem 18:91-3 N '42

AEROSOLS. See Colloids

AETNA life insurance company

Annual statements of Aetna Life group. Comm & Fin Chr 155:395 Ja 27 '42

AFRICA

Atlantic charter and Africa from an American standpoint. 164p bibliog(p144-50) pa 75c Africa bur, 156 5th av, New York '42

See also

Oil industries—Africa

Colonization

Operation of the mandate system in Africa, 1919-1927. R. W. Logan. 50p pa 75c Foundation publishers, box 1382, Washington, D.C. '42

AFRICA, British West

Maximum production sought in British West Africa. C. A. Riches. il map For Comm W 9:3-7+ N 7 '42

West African resources. Economist 142:820-1 Je 13 '42

AFRICA, North

See also

World war, 1939- Africa, North

AFRICA, South. See South Africa

AFRICA, West

Europe and West Africa; some problems and adjustments. C. K. Meek, W. M. Macmillan and E. R. J. Hussey. 143p $3 Oxford '40

AFTERGLOW. See Electric discharges

AGAR

Agar, foster child of California. For Comm W 8:21 Ag 15 '42

Agar in New Zealand. For Comm W 8:27 Jl 4; 29-30 Jl 11 '42

Constitution of agar. W. G. M. Jones and S. Peat. Chem Soc J p225-31 Ap '42

Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42

New agar medium for drosophila culture. M. T. Lewis. Science 96:282 S 18 '42

Reclaiming agar for bacteriological use. A. F. Roe. Science 96:23 Jl 3 '42

Reclamation of agar; abstract. H. G. Macmorine. Water & Sewage 80:26 Mr '42

Reclamation of used agar. H. I. Thaller. diag Science 96:23-4 Jl 3 '42

Seaweeds at Beaufort, North Carolina, as a source of agar. H. J. Humm. Science 96: 230-1 S 4 '42

Sensitization and surface charge of lyophilic colloids. E. A. Hauser and M. R. Cines. bibliog J Phys Chem 46:705-9 Je '42

AGAVE fiber

Agave fiber under war control. Rayon 23:587 O '42

AGE

Age composition of the population. Monthly Labor R 55:264-7 Ag '42

How to have adequate man-power. il Ry Age 113:270-2 Ag 15 '42

Hypertension in workers over forty years of age. A. M. Master and S. Dack. bibliog Ind Med 11:145-7 Ap '42

Improved employment situation of older workers. M. T. Waggaman. Monthly Labor R 54:59-69 Ja '42

Old-timers can do the job. Management R 31:258-9 Ag '42

Population changes and their effects. H. L. Duncombe, jr. Harvard Business R 20 no 4:437-45 [Jl] '42; Abstract. Management R 31:242-3 Jl '42

President proclaims national employment week. Comm & Fin Chr 155:1630 Ap 23 '42

Uncle Sam may be missing hardy workers by putting limit of draft at 64 years; effect of aging on fitness for muscular work; abstract. F. A. Hellebrandt and P. M. Dawson. Science 95:sup 11 Ap 10 '42

Wanted, men over 50! advertisement turns up score of experienced inspectors. L. K. Urquhart. il Factory Management 100:76-7+ F '42

See also

Child labor
Middle age
Old age
Old age pensions
Pensions, Industrial

AGE (biology)

Problems of ageing; biological and medical aspects. E. V. Cowdry, ed. 2d ed 936p $10 Williams & Wilkins '42

Problems of aging and of vascular diseases. H. S. Simms. Science 95:183-6 F 20 '42

AGENCIES, Advertising. See Advertising agencies

AGENCIES, Employment. See Employment agencies

AGENCY (law)

President's fraud imputed to bank. Burroughs Clearing House 26:35-6 Jl '42

Selected cases on the law of agency. F. R. Mechem, ed. 3d ed 608p $5.50 Callaghan '42

See also

Brokers—Law
Insurance agents—Law

Foreign principals

House votes new bill to control foreign agents. Comm & Fin Chr 155:1779 My 7 '42

President vetoes foreign agents bill, urging changes. Comm & Fin Chr 155:765 F 19 '42

AGENDA (periodical)

Agenda; London, San Francisco, Walla Walla; current. Arch Rec 91:86 Je '42

AGENTS, Insurance. See Insurance agents

AGGREGATES

Studies of soil-aggregate base-course mixtures. J. B. Garneau and C. E. Beland. Roads & Bridges 80:28-9, 75+ My '42

Tests of furfural as an anti-stripping agent; prevents stripping of asphalt from hydrophilic aggregates. A. S. Janssen. il Roads & Sts 85:41-8 S '42

Using two systems of grinding; production of aggregates for Pennsylvania Turnpike. il diag Rock Prod 45:56-8 My '42

See also

Concrete—Aggregate
Gravel
Sand

Specifications

Developments in methods of testing and specifying coarse aggregates. L. H. Tuthill. Am Concrete Inst J 14:21-32 S '42

Standards

Grading and shape of commercial sizes of aggregates. A. H. D. Markwick. diags Soc Chem Ind J 61:85-91 Je '42

Testing

Developments in methods of testing and specifying coarse aggregates. L. H. Tuthill. Am Concrete Inst J 14:21-32 S '42

Effect of fine aggregate on the durability of mortars. C. A. Hughes and K. A. Andersen. Am Soc T M Proc 41:987-1002 '41

AGGREGATES—Testing—*Continued*

Effect of grinding in the large mixers on aggregate grading at Hiwassee dam. W. R. Waugh. il Am Concrete Inst J 14:9-20 S '42

Significance of the soundness test of aggregate; abstract. W. E. Gibson. Roads & Bridges 80:118 Mr '42

AGING. See Age (biology); Old age

AGING of metals. See Metals—Aging

AGING of precipitates. See Precipitation

AGITATORS

Heating and agitating pickling tanks; Heil steam-air agitator jets. C. E. Heil. il diags Metal Finishing 40:31 Ja '42

Installation of Palmer filter bed agitators; with cost data. S. H. Mitchell. il Water Works & Sewerage 89:271-2 Je '42

New pickling bath agitator jets. diags Iron Age 149:39 Ja 29 '42

Simple laboratory agitator. G. H. Botham. diags Chem & Ind 61:10-11 Ja 3 '42

Design

Agitation; performance of propellers in liquid-solid systems. A. W. Hixson and S. J. Baum. diags Ind & Eng Chem 34:120-5 Ja '42

Power

Agitation; power requirements of turbine agitators. A. W. Hixson and S. J. Baum. bibliog diags Ind & Eng Chem 34:194-208 F '42

AGRANULOCYTOSIS

Prevention and treatment of agranulocytosis and leukopenia in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. S. S. Spicer and others. bibliog Pub Health Rep 57:1559-66 O 16 '42

AGRICULTURAL adjustment administration

Assignments vs. grant-of-aid contracts; Hopkinsville stone co. finances agricultural limestone sales through farmer assignments under A.A.A. il Rock Prod 45:52-4 Je '42

How Middle West built up market for liming material; producer, farmer, and government cooperate through activities of Midwest agricultural limestone institute. J. R. Bent. il Rock Prod 45:33-5 My; 49+ Je; 56 S '42

Penalty on wheat marketed in excess of quotas held invalid by federal court. Comm & Fin Chr 155:1259 Mr 26 '42

Selling the agstone market. B. Nordberg. il Rock Prod 45:47-50 My '42

AGRICULTURAL administration

New settlement in the delta of the lower Mississippi valley. P. E. Jones, J. E. Mason and J. T. Elvove. J Land & Pub Util Econ 17:465-76 N '41

Parity, parity, parity. J. D. Black. 367p $2 Harvard committee on research in the social sciences, Cambridge, Mass. '42

Price fixing of agricultural products. W. C. Waite. Am Statis Assn J 37:13-21 Mr '42

War and soil conservation. A. C. Bunce. J Land & Pub Util Econ 18:121-33 My '42

See also

Farm security administration

Land settlement

Soil conservation

AGRICULTURAL associations

See also

Farmers' cooperative associations

AGRICULTURAL chemistry

Agricultural and food chemistry as discussed at Buffalo meeting, American chemical society. Can Chem & Process Ind 26:587-8, 616+ O '42

Chemistry and agricultural reconstruction. E. J. Russell. Chem & Ind 61:319-24 Jl 25 '42; Same cond. Engineering 154:197-8, 205-6, 225-6 S 4-18 '42

Chemistry of soils. L. T. Lowe. Chem & Ind 61:230-3 My 23 '42

See also

Botanical chemistry

Feeding and feeding stuffs

Fertilizers

Soil analysis

Soils

also Liebig, Justus von

Bibliography

British chemical and physiological abstracts; B, III, Agriculture, foods, sanitation, etc. Published monthly by Chemical society, London £1 10s

AGRICULTURAL chemists

Bernhard Tollens (1841-1918), and some American students of his school of agricultural chemistry. C. A. Browne. il diags J Chem Educ 19:253-9 Je '42

AGRICULTURAL colleges

Science serves agriculture; teaching, extension and investigational work at Ontario agricultural college. W. H. Pitcher. il Can Chem & Process Ind 26:303-6, 308+ My '42

Curriculum

Comparative study of the New York State schools of agriculture at Alfred, Canton, and Morrisville. G. A. Gilger, jr. 223p bibliog(p208-11) pa $2 George A. Gilger, jr, 12 Judson st, Canton, N.Y. '41

AGRICULTURAL colonization

Kvutza; the structure, problems, and achievements of the collective settlements in Palestine. S. Wurm. 74p pa 25c Habonim, New York '42

See also

Land settlement

Land utilization

Argentina

Land settlement in Argentina. Int Labour R 45:199-201 F '42

AGRICULTURAL commission. See American bankers association—Agricultural commission

AGRICULTURAL credit

Agricultural finance; principles and practice of farm credit. W. G. Murray. 328p $3.25 Iowa state college press, Ames '41

Agricultural goals and food for freedom require increased production from farms in '42. N. J. Wall. Comm & Fin Chr 155:1052 Mr 12 '42

Bank of the province of Buenos Aires to grant credits to farmers. For Comm W 5:8 N 29 '41

Bankers will encourage increased farm production. il Bankers Mo 59:200+, 316 My, Jl '42

Banks for cooperatives get more from Treasury. Comm & Fin Chr 154:1231 N 27 '41

Borrowers pay off farm-purchase loans. Comm & Fin Chr 155:116 Ja 8 '42

Correspondent representatives help promote livestock feeding. C. H. Haesemeyer and D. D. Fuller. Bankers Mo 59:400+ S '42

Country banker's job. K. J. McDonald. Banking 35:134-5 S '42; Excerpts. Bankers M 145:355-6 O '42

Each bank has an interest in repaired farm machinery. il Bankers Mo 59:262+ Je '42

Extend 1941 grain loans. Comm & Fin Chr 155:1034 Mr 12 '42

Farm credit administration; loans and discounts outstanding, by institutions, yearly 1934-1939 and monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:51 Ja '42 [cont monthly]

FCA on farm land values; bank co-operation asked to prevent speculative boom. H. D. Ralph. Burroughs Clearing House 26:18 N '41

Farm credit bill would sabotage war effort, placing unjustifiable burden on national credit. F. P. Champ. Comm & Fin Chr 155:1448 Ap 9 '42

Farm credit policy under present conditions. S. Nirdlinger. il Burroughs Clearing House 26:13-15+ Ja '42

Farm loans. Banking 34:80-1 Mr '42

FSA borrowers raise loan repayments 75%. Comm & Fin Chr 155:28 Ja 1 '42

Farmers repay FCA. Comm & Fin Chr 155:1251 Mr 26 '42

Federal lending agencies and how they grew; agricultural finance. R. A. Foulke. Dun's R 49:11-12 N '41

Financing food-for-freedom. K. W. McLaren. Banking 34:84-5 Je '42

AGRICULTURAL credit—*Continued*

Financing food-for-freedom. J. W. Tapp. Banking 35:133-4 S '42

Financing food-for-freedom; credit clinic of the American bankers association. Burroughs Clearing House 26:11 Ap '42

Financing food production. Banking 35:16 sec 2 Jl '42

Financing the farmer. H. J. C. Umberger. Bankers M 144:550-1 Je '42

Food-for-freedom. Banking 34:76-9 My '42

Food for freedom. A. G. Brown. Banking 34:92-3 Mr '42

Food for freedom gets ABA support. Comm & Fin Chr 155:1154 Mr 19 '42

Food-for-freedom loans. F. Kutish and R. W. Wilcox. Banking 35:32 Ag '42

Government competition; a discussion in print. Banking 35:138, 140-4 S '42

How banks can assist in the Food-for-freedom program. 36p 25c Am. bankers assn, Agricultural commission, New York '42

How we successfully compete with other credit agencies. E. W. Rossiter. Bankers Mo 58:566-7+ D '41

Importance of agricultural loans; abstract. C. T. O'Neill. Bankers M 144:173-4 F '42

Land bank borrowers pay. Comm & Fin Chr 155:1036 Mr 12 '42

Loan differentials on irrigated cotton. Comm & Fin Chr 155:1347 Ap 2 '42

Local banks and farm business. S. J. Linck. Bankers M 143:535 D '41

Make more loans to farmers; abstract. H. N. Thomson. Bankers M 144:455-6 My '42

1941 corn and wheat loans. Comm & Fin Chr 155:1039 Mr 12 '42

Outside program for country banks. N. A. Jamba. il Banking 35:135-7 S '42

Parity problems. Business Week p84-6 Jl 11 '42

Principles in connection with loan policy. A. G. Black. Bankers M 143:427-8 N '41

Removes insurance requirement on mortgaged corn; Commodity credit corporation ruling. Nat Underw 45:3+ D 4 '41

To encourage redemption of 1941 loan wheat. Comm & Fin Chr 155:2043 My 28 '42

Urges credit extension to farm families. B. P. Cleveland. Comm & Fin Chr 154:1570-1 D 18 '41

Urges mortgage bankers to oppose Fulmer farm credit measure. F. P. Champ. Comm & Fin Chr 154:1357 D 4 '41

Views conflict on farm credit legislation. Burroughs Clearing House 26:21+ My '42

War-time adjustments in farm tenure. R. Schickele. J Land & Pub Util Econ 18:164-6 My '42

We help both dealers and farmers to improve operations; Hunterdon County national bank, Flemington, N.J. W. Kinnamon. Bankers Mo 59:176-7 Ap '42

We lend farmers money to buy machinery. J. G. Edmiston. Bankers Mo 59:116+ Mr '42

We tell our customers—get out of debt! preventing the trouble that followed the first World war; Bank of Huntington, Hartington, Neb. E. W. Rossiter. Bankers Mo 59:155-6 Ap '42

See also

Land banks
Mortgages, Farm

AGRICULTURAL education

Forty years of helping the farmer with knowledge. W. H. Chandler. Science 95:563-7 Je 5 '42; Discussion. H. M. Hamlin. 96:270-1 S 18 '42

Michigan farm-apprentice plan. Monthly Labor R 54:70-2 Ja '42

See also

Agricultural colleges

AGRICULTURAL engineering

Oxford institute of research in agricultural engineering. Science 96:151 Ag 14 '42

Practical methods in teaching farm mechanics. G. C. Cook and C. Walker. rev & enl ed 517p $2.22 Interstate, Danville, Ill. '41

See also

Agricultural machinery
Drainage
Electricity on the farm
Irrigation

AGRICULTURAL experiment stations

New agricultural experiment station for Peru. For Comm W 7:27 My 16 '42

AGRICULTURAL insecticide and fungicide association

Agricultural insecticide group hit by cease and desist order. Oil Paint & Drug Rep 142:7+ Ag 3 '42

AGRICULTURAL insurance. See Insurance, Agricultural

AGRICULTURAL laboratories

Agricultural research laboratories in operation. H. G. Knight. il Chem Ind 50:62-3+ Ja '42

Regional laboratories in national defense; abstracts. H. G. Knight. Chem Ind 50:508-9 Ap '42; Chem & Met Eng 49:156+ Jl '42

Test shows small-unit efficiency; Wyndmoor, Pa. laboratory of U.S. Dept. of agriculture. T. A. Marsh. il diag Power 85:923-4+ D '41

AGRICULTURAL laws and legislation

United States

Farm bloc moves. Nat City Bank p87-8 Ag '42

FDR signs bill allowing government wheat sales. Comm & Fin Chr 156:461 Ag 6 '42

Penalty on wheat marketed in excess of quotas held invalid by federal court. Comm & Fin Chr 155:1259 Mr 26 '42

President says sub-parity grain sale is vital to the war time effort. Comm & Fin Chr 156:189 Jl 16 '42

Senate prohibits sale of govt.-owned crops below parity despite presidential opposition. Comm & Fin Chr 155:950 Mr 5 '42

Sub-parity grain sale is approved by House. Comm & Fin Chr 156:274 Jl 23 '42

Wickard favors repeal of 110% farm parity limitation and livestock ceiling prices. Comm & Fin Chr 156:725 Ag 27 '42

See also

Mortgages, Farm

AGRICULTURAL machinery

Agricultural demonstration at Witley Park, Surrey. Engineering 153:356 My 1 '42

Farm hands win; mechanical loaders boosting pay of piecework labor in hay harvesting. Business Week p62 S 5 '42

Farm machinery. A. A. Stone. 3d ed 524p $3.25 Wiley '42

National institute of agricultural engineering established to carry out tests on new and improved implements, and do experimental work to improve utilisation of existing machinery. Economist 143:57 Jl 11 '42

See also

Tractors

Repair

Each bank has an interest in repaired farm machinery. il Bankers Mo 59:262+ Je '42

AGRICULTURAL machinery industry

Business situation; production of agricultural implements. Survey of Cur Business 22:4-5 Mr '42

Earnings in the agricultural-machinery industry, 1942. H. R. Hosea and others. Monthly Labor R 54:1177-86 My '42

Farm equipment industry concentrated by order L-170. Iron Age 150:96-7 O 29 '42

Farm equipment industry weighs effect of war cut. Iron Age 148:75+ D 25 '41

Greater discretion permitted respecting farm-equipment exports. For Comm W 7:29 Je 6 '42

Implement pinch; machinery for farming faces cut in output. Business Week p17-18 Ag 29 '42

Local farm equipment dealers may well do some farming. il Bankers Mo 59:325+ Jl '42

AGRICULTURAL machinery industry—*Cont.*

New machinery quota cut to 20 per cent of 1940 production. Steel 111:32 O 26 '42

Reconditioned farm equipment will aid future stability. il Bankers Mo 59:399-400 S '42

WPB's hot potato; semiconcentration in farm machinery. Business Week p16-17 O 31 '42

See also

Caterpillar tractor company
International harvester company
Tractor industry and trade

Finance

SEC issues industry reports; agricultural machinery and automobiles and other types of vehicles. Comm & Fin Chr 154: 1563 D 18 '41

Securities

Farm equipment companies' outlook. E. Haller. Barron's 22:18 Mr 23 '42

Farm equipment profits will be moderately lower; position of leading stocks. il Mag of Wall St 69:494+ F 7 '42

Farm equipments convert to war. H. F. Travis. il Mag of Wall St 70:227-9+ Je 13 '42

Position of leading agricultural equipment stocks. Mag of Wall St 70:444-5 Ag 8 '42

Brazil

Increased Brazilian production of agricultural machinery during past 5 years. For Comm W 8:25 Jl 25 '42

California

Farm income to reach new peak. Steel 110: 415-17 Ja 5 '42

Farm tool clinics; implement-repair drive in California. Business Week p68+ F 14 '42

Canada

Canada's farm-machinery imports. For Comm W 7:21 My 16 '42

Europe

Nazis demand enormous rise in farm-machinery production. For Comm W 7:29-30 Je 6 '42

Great Britain

Engineering outlook. Engineering 153:203-4 Mr 13 '42

AGRICULTURAL marketing administration. See United States—Agricultural marketing administration

AGRICULTURAL news. See Newspapers—Farm news

AGRICULTURAL pests

See also

Fungi
Insecticides
Insects, Injurious and beneficial
Weeds

AGRICULTURAL products

See also

Crops
Dairy products
Farm produce
Grain

AGRICULTURAL research

Agricultural insecticides; summary of some significant facts from 1942 state experiment station reports. H. H. Slawson. Soap & San Chem 18:91-4+ O '42

Agricultural research in Puerto Rico. I. A. Colon. Chem Ind 51:108 Jl '42

Agricultural research laboratories in operation. H. G. Knight. il Chem Ind 50:62-3+ Ja '42

Agricultural science and the people's welfare. E. C. Auchter. Science 96:283-9 S 25 '42

Chemistry and agricultural reconstruction. E. J. Russell. Chem & Ind 61:319-24 Jl 25 '42; Same cond. Engineering 154:197-8, 205-6, 225-6 S 4-18 '42

Conserving our harvests. F. C. Bradford. Science 95:465-9 My 8 '42

Contributions to the development of soil microbiology from the southeastern United States. F. B. Smith. Science 96:95-8 Jl 31 '42

Developments in agricultural research in Great Britain. Science 95:37 Ja 9 '42

Forty years of helping the farmer with knowledge. W. H. Chandler. Science 95:563-7 Je 5 '42

Grassland research in Great Britain. Science 95:641-2 Je 26 '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:13-16 Ja 10 '42

New Inter-American institute of agricultural sciences. For Comm W 7:39 Je 20 '42

Recent developments in sampling for agricultural statistics; research conducted at Ames, Iowa. G. W. Snedecor and A. J. King. Am Statis Assn J 37:95-102 Mr '42

Regional laboratories in national defense; abstract. H. G. Knight. Chem Ind 50:508-9 Ap '42

Rural electrification and research. A. G. H. Dent. il Electrician 129:189-91 Ag 21 '42

Some significant findings of the experiment stations in 1941. Science 96:85-7 Jl 24 '42

Use of tests of significance in an agricultural experiment station. G. W. Snedecor. Am Statis Assn J 37:383-6 S '42

War uses of farm products. H. G. Knight. il Manuf Rec 111:24-5, 50+ Ag '42

See also

Agricultural laboratories

AGRICULTURE

Agriculture and the petroleum industry; abstract. C. Reynolds. Chem Ind 50:509-10 Ap '42

Benjamin Franklin, adventures in agriculture. C. R. Woodward. Franklin Inst J 234: 207-28 S '42

Better rural careers; vocational aspects of rural life in the South. P. W. Chapman. 316p 92c Textbook division, Science research associates, Chicago '41

Farm for fortune and vice versa, a handbook for city farmers. L. Haystead. 207p $2 Putnam '42

Getting acquainted with agriculture. G. P. Deyoe and F. T. Ullrich. 736p $2 Interstate, Danville, Ill. '41

Mathematics in agriculture. R. V. McGee. 189p $4; school ed $3 Prentice-Hall '42

Mexico City farm talks praised; Inter-American conference on agriculture. C. R. Wickard. Comm & Fin Chr 156:374 Jl 30 '42

Permanent agriculture. W. Scott and J. B. Paul. 614p $2.50 Wiley '41

Science and the land. F. L. Engledow. Chem & Ind 61:239-45 My 30 '42

Second Inter-American conference of agriculture, Mexico City, July 6-16. Int Labour R 46:319-24 S '42

See also

Agricultural machinery
Cotton
Crops
Dairy products
Dairying
Drainage
Electricity on the farm
Farm labor
Farm market
Farm produce
Feeding and feeding stuffs
Fertilizers
Flax
Forests and forestry
Irrigation
Land settlement
Live stock
Rubber plants and planting
Soils
Sugar
Wheat

Consult Agricultural Index for additional references

Bibliography

Bibliography of soil science, fertilizers and general agronomy, 1937-1940. 504p 25s Imperial bur. of soil science, Harpenden, Eng. '41

Economic aspects

Attacking low-income problems in rural areas of New York state. M. E. Brunk. J Land & Pub Util Econ 17:493-7 N '41

Farm land boom? Business Week p70-2 S 12 '42

Old parity policy. Business Week p68 Ja 17 '42

AGRICULTURE—Economic aspects—*Continued*

Statistical methods applied to agricultural economics. F. A. Pearson and K. R. Bennett. 443p $4 Wiley '42

Subsurface resources and surface land economics. J. Salisbury, jr. and L. A. Salter, jr. bibliog J Land & Pub Util Econ 17: 270-9, 385-93 Ag-N '41

War-time adjustments in farm tenure. R. Schickele. J Land & Pub Util Econ 18:163-8 My '42

What of farm prices? possible trends in farm land values. A. G. Black. Bankers Mo 59: 341-2+ Ag '42

See also

Agricultural credit
Farm income
Farm labor
Farm market
Farm produce
Land tenure
Land utilization
Mortgages, Farm

Bibliography

Topical studies and references on the history of American agriculture. L. B. Schmidt. 4th ed rev & enl 123p Dept. of history and government, Iowa state college, Ames '40

Statistics

Agriculture, 1941. Survey of Cur Business 22: 27-30 F '42

Recent developments in sampling for agricultural statistics; research conducted at Ames, Iowa. G. W. Snedecor and A. J. King. Am Statis Assn J 37:95-102 Mr '42

Alabama

Report of the tenth Alabama policy conference on effective farm production, Montgomery, May 21, 1942. C. W. Edwards, ed. 32p Alabama policy committee, C. W. Edwards, sec-treas, Auburn, Ala. '42

Argentina

New agrarian plan to alleviate depressed agricultural situation. For Comm W 7:12 Je 13 '42

Balkan states

Balkan agriculture. Economist 142:755 My 30 '42

Balkan satellites. Economist 143:512-13 O 24 '42

Canada

More farmers for western Canada. A. Stewart. 32p pa 25c Ryerson press '41

China

Soil fertility and manuring in China. N. F. Chang and H. L. Richardson. Science 95: 601-2 Je 12 '42

Cuba

Cuba will diversify. P. G. Minneman. Comm & Fin Chr 155:860 F 26 '42

Ecuador

Farm experts to Ecuador to survey agricultural and other economic resources. Comm & Fin Chr 154:1229 N 27 '41

News by countries. For Comm W 5:20-1 N 15 '41

Europe

Agricultural prospects. Economist 142:327-8 Mr 7 '42

Future of European agriculture. Engineering 154:111-12 Ag 7 '42

Harvests in western and northern Europe. Economist 141:504 O 25 '41

Limited supply of fertilizers and insecticides point to crop shortages in Europe. Chem & Met Eng 49:122 Ag '42

Far East

Rice economy of monsoon Asia. V. D. Wickizer and M. K. Bennett. 358p bibliog(p335-47) $3.50 Food research inst, Stanford University, Calif. '41

France

Germany and French agriculture. Economist 142:647-8 My 9 '42

Germany

Agricultural dilemma. Economist 142:864-5 Je 20 '42

Great Britain

Agricultural taxation. Economist 142:602 My 2 '42

Agricultural wages and prices. Economist 141: 561 N 8 '41

Cost of agriculture. Economist 142:38 Ja 10 '42

England and the farmer; a symposium. H. J. Massingham, ed. 154p 10s 6d B. T. Batsford, London '41

Land and labour. Economist 141:469-70 O 18 '41

Odi profanum vulgus; report of the Scott committee on land utilisation in rural areas. Economist 143:226-8 Ag 22 '42

Post-war agriculture. Economist 141:643-5 N 29 '41; Reply. H. E. D. B. S. De La Warr. 141:711-12 D 13 '41

Great Plains region

Integrating the use of irrigated and grazing land in the northern Great Plains. R. E. Huffman and J. L. Paschal. J Land & Pub Util Econ 18:17-27 F '42

Hungary

Geographic aspects of land utilization in Hungary. O. Kuthy. 26p bibliog(p25-6) pa 75c New York univ, New York '42

Ireland

Agricultural outlook in Eire. Economist 142: 290-1 F 28 '42

Agricultural reconstruction in Eire. Economist 143:362-3 S 19 '42

Eire's food policy. Economist 142:72 Ja 17 '42

Plan for Irish farming. Economist 142:395 Mr 21 '42

Italy

Italian wartime economy; food production and trade. For Comm W 5:6+ D 6 '41

Mexico

Agricultural conditions. For Comm W 7:19-20 Je 6 '42

Agricultural situation, 1941 season. For Comm W 6:16 Ja 10 '42

Plantings and crops in 1942. For Comm W 8:21+ Jl 11 '42

Mississippi valley

New settlement in the delta of the lower Mississippi valley. P. E. Jones, J. E. Mason and J. T. Elvove. J Land & Pub Util Econ 17:465-76 N '41

New York (state)

Attacking low-income problems in rural areas of New York state. M. E. Brunk. J Land & Pub Util Econ 17:493-7 N '41

Peru

New agricultural experiment station for Peru. For Comm W 7:27 My 16 '42

U.S. to buy Peru cotton; Peru will shift to other farm crops. Comm & Fin Chr 155: 1786 My 7 '42

Puerto Rico

Agricultural research in Puerto Rico. I. A. Colon. Chem Ind 51:108 Jl '42

Russia

Collective farming in Russia and the Ukraine. J. Russell. Science 96:47-52, 74-8 Jl 17-24 '42

Kolkhoz in wartime; switch-over from tractor to horse. Economist 142:829 Je 13 '42

Lenin on the agrarian question. A. Rochester. 224p $2.50 International publishers, 381 4th av, New York '42

Russia at war; second war harvest. Economist 143:80 Jl 18 '42

Russia's grain varieties; United States government has offered to aid in rescuing them from destruction. Science 95:sup12 Ja 2 '42

AGRICULTURE—*Continued*

Sweden

Yield of Swedish crops in 1940 and 1941. For Comm W 7:20 My 30 '42

Switzerland

Swiss battle of agriculture. Economist 143: 271 Ag 29 '42

Texas

Texas soil conservation attracts world wide attention. H. H. Bennett. il Manuf Rec 111:30-1+ Je '42

Ukraine

Collective farming in Russia and the Ukraine. J. Russell. Science 96:47-52, 74-8 Jl 17-24 '42

United States

Agricultural goals and food for freedom require increased production from farms in '42. N. J. Wall. Comm & Fin Chr 155:1052 Mr 12 '42

Agriculture, 1941. Survey of Cur Business 22: 27-30 F '42

Changes in AAA program to aid and speed the agricultural war production. Comm & Fin Chr 155:771 F 19 '42

Day after tomorrow; quotations from a speech by Secretary of agriculture C. R. Wickard. A. P. Peck. Sci Am 167:205 N '42

Farm production, prices, and income. Fed Res Bul 28:984 O '42

Farmers as important as aircraft workers; address at meeting of National grange. H. Morgenthau, jr. Bankers Mo 59:7+ Ja '42

Field crops. H. C. Rather. 454p $3.75 McGraw-Hill '42

Field crops and land use. J. F. Cox and L. Jackson. 473p bibliog(p425-34) $3.75 Wiley '42

Food for victory goals go up again. Business Week p46 Ja 24 '42

Impacts of the war on agricultural science as indicated by the December society meetings. Science 95:302-3 Mr 20 '42

Limits on agricultural output. H. R. Tolley. Trusts & Estates 75:219 S '42

1942 food campaign opens; spring planting intentions. Barron's 22:6 Mr 30 '42

Payment rate in farm conservation program. Comm & Fin Chr 154:1232 N 27 '41

Planting intentions as of March 1, 1942. Comm & Fin Chr 155:1346-7 Ap 2 '42

Record farm output with parity prices. Dun's R 49:30-1 D '41

Secretary of agriculture calls for largest United States farm production in history. Comm & Fin Chr 155:346-7 Ja 22 '42

What is expected of agriculture during the war emergency. S. E. Johnson. Edison Elec Inst Bul 10:121-3 Ap '42

What will the harvest be? Barron's 22:6 O 19 '42

Wheat growers urged to grow war crops. Comm & Fin Chr 156:1277 O 8 '42

See also

Corn
Crops
Farm labor
Farms
Food supply—United States

Farm relief

AAA payments for 1942. Comm & Fin Chr 155:1785 My 7 '42

Present prosperity of agriculture seen as occasion to abandon subsidies. Comm & Fin Chr 156:1184 O 1 '42

See also

Agriculture—Economic aspects
Farm security administration
Subsistence homesteads
United States—Agricultural marketing administration

AGRICULTURE, Cooperative

Farmer cooperation in southwest Virginia. E. L. Morgan and T. N. Gearreald. (Bul. 331) 46p Virginia agricultural experiment station, Blacksburg '41

See also

Agriculture—Russia
Farmers' cooperative associations

Bibliography

Research guide on cooperative group farming. J. W. Eaton and S. M. Katz. 86p pa $1 Wilson, H.W. '42

Argentina

Agricultural cooperatives in Argentina. J. L. Tenembaum. 48 numb l Pan American union, Division of agricultural cooperation, Washington, D.C. '41

AGRICULTURE and war

Farmers' job in the war program. L. M. Gentry. il Bankers Mo 59:55+ F '42

Sees end of luxuries here by close of year. C. R. Wickard. Comm & Fin Chr 156:187 Jl 16 '42

War and soil conservation. A. C. Bunce. J Land & Pub Util Econ 18:121-33 My '42

See also

World war, 1939—Food question

Bibliography

War and agriculture in the United States, 1914-1941. W. T. Borg, comp. (Agric. economics bibliog. 93) 43p U.S. Bur. of agricultural economics, Library, Washington '42

AIKEN, Alfred Lawrence, 1870-

To retire. por East Underw 43:4 Ap 3 '42

AIR

Compression and expansion of air. A. L. Egan. diags Engineering 153:423-4, 443-5 My 29-Je 5 '42

Mollier diagrams for theoretical alcohol-air and octane-water-air mixtures. R. Wiebe, J. F. Shultz, and J. C. Porter. bibliog il diags Ind & Eng Chem 34:575-80 My '42

Psychrometric properties of atmospheric air. R. D. Blum. Refrig Eng 43:227-31 Ap '42

Thermodynamic properties of air. R. V. Gerhart and others. bibliog Mech Eng 64:270-2 Ap '42

See also

Aerodynamics
Aeronautics
Air conditioning
Air flow
Air pollution
Atmosphere, Upper
Atmospheric pressure
Atmospheric temperature
Compressed air
Dust
Heating
Humidity
Meteorology
Nitrogen
Oxygen
Ozone
Ventilation

Analysis

Absorption spectrum as a quantitative test for mercury vapor in air. K. C. Clark and O. Oldenberg. bibliog J Chem Phys 9:786-8 N '41

Analysis of atmospheric samples of explosive chemicals. F. H. Goldman. J Ind Hygiene 24:121-2 My '42

Analysis of toluene for benzene by an ultraviolet absorption of vapor mixtures and the determination of concentration of toluene in air by use of the Rayleigh-Jeans interference refractometer. P. A. Cole and D. W. Armstrong. Opt Soc Am J 31:740-2 D '41

Analyzer for one ml of respiratory gas. P. F. Scholander. diags R Sci Instr 13:27-31 Ja '42

Conductometric determination of ammonia; application to nitrogen distribution studies. R. H. Hendricks and others. bibliog diag Ind & Eng Chem Anal ed 14:23-6 Ja 15 '42

Determination of atmospheric contaminants; methyl cellosolve. H. B. Elkins, E. D. Storlazzi and J. W. Hammond. J Ind Hygiene 24:229-32 O '42

Determination of formaldehyde in air. E. C. Barnes and H. W. Speicher. bibliog J Ind Hygiene 24:10-17 Ja '42

AIR—Analysis—*Continued*

Determination of the concentration of benzene and toluene in air by a spectroscopic method. P. A. Cole. diag Opt Soc Am J 32:304-6 My '42

Evaluation of the lead hazard in the decorating department of a glass plant; relation of urinary and atmospheric lead determinations. C. A. Smucker and J. B. Kistler. J Ind Hygiene 24:1-4 Ja '42

Method for determining the concentration of propylene glycol vapor in air. T. T. Puck. Science 95:178 F 13 '42

Micro-gas-analyzer. P. F. Scholander. diags R Sci Instr 13:264-6 Je '42

New colorimetric method for the determination of TNT (2,4,6,trinitrotoluene) in air. S. S. Pinto and J. P. Fahy. bibliog J Ind Hygiene 24:24-6 F '42

Portable field colorimeter for industrial hygiene use. T. R. Thomas and L. Silverman. bibliog il diags Ind Med 11:188-90 Ap '42

Standard methods for measuring extent of atmospheric pollution. C. E. Brown and H. H. Schrenk. bibliog(120 titles) il diag U S Bur Mines Information Circ 7210:1-19 '42

See also

Dust

Bacteriology

Aerosol sterilization of air-borne bacteria. A. E. Williamson and H. B. Gotaas. bibliog Ind Med 11:40-5 Ja '42

Bubbler pump method for quantitative estimations of bacteria in the air. S. M. Wheeler, G. E. Foley and T. D. Jones. diag Science 94:445-6 N 7 '41

Experimental air-borne infection with poliomyelitis virus. H. K. Faber and R. J. Silverberg. bibliog Science 94:566-8 D 12 '41

AIR, Compressed. See Compressed air

AIR, Liquid. See Liquid air

AIR associates, incorporated

Air Associates plant in Bendix seized after Mediation board efforts fail. Comm & Fin Chr 154:1039 N 13 '41

Back to owners. Business Week p49-50 Ja 3 '42

AIR bases. See Airports, Military; Naval air stations

AIR blast meter

Design of air-blast meter and calibrating equipment. A. T. Ireland. bibliog il diags U S Bur Mines Tech Pa 635:1-20; pa 10c Supt. of doc. '42

AIR brake hose

Reclamation of air-brake hose. diags Ry Mech Eng 116:312-13 Jl '42

AIR brakes

Air brake questions and answers (cont). Ry Mech Eng 115:538; 116:26-7, 75, 115, 230-1, 313-14, 348-9, 396-7, 435-6 D '41-Mr, My, Jl-O '42

Air-hose testing device. il Ry Mech Eng 116:434-5 O '42

Instructions for servicing AB self-oiler pistons. diags Ry Mech Eng 116:395-6 S '42

Lyons Practical air brake book. J. M. Lyons. 365p $5 John Mathew Lyons, 2010 Van Buren st, Amarillo, Tex. '41

See also

Air brake hose
Brakes, Electro-pneumatic

Testing

Birch single-car testing device. il Ry Mech Eng 115:537 D '41

Wartime maintenance of air brake equipment. A. Malmgren. Ry Mech Eng 116:472-4 N '42

AIR brakes, Motor bus

Analysis and balancing of brakes on rubber tired vehicles; abstract. J. W. Tuttle. Mass Transportation 37:332-3 N '41

AIR brush. See Airbrush

AIR cargo. See Air lines—Freight service

AIR cleaners

Dixie mercerizing co. installed electrostatic air cleaners. il Heat & Ven 38:43-4 D '41

Evaporative cooling with air washers. il Sheet Metal Worker 33:52-3 Jl '42

Industrial exhaust ventilation; air cleaners. F. F. Kravath. diags Heat & Ven 39:49-52 Ap '42

New electrostatic air-cleaner. D. W. Aldous. diag Electrician 129:271-2 S 11 '42

New electrostatic air-cleaner and its application to the motion picture industry. H. Gitterman. il diags Soc Motion Picture Eng J 39:70-4 Jl '42

See also

Air filters
Dust collectors

AIR cleaning

Orchids grown in cleaned air. il Heat & Ven 39:26 Je '42

Removing air-borne dust in industrial plants. E. H. R. Pegg. il Power Pl Eng 46:65-7 Ag '42

See also

Air filters

AIR compressors

About air compressors; questions and answers. Power 86:674 S '42

Air compressors speed water department maintenance. Eng N 129:653 N 5 '42

Centrifugal-compressor fundamentals. il diags Power 86:27-30 Ja '42

Compressed air for ammonia oxidation. D. G. Morrow. il Am Inst Chem Eng Trans 38:377-86 Ap '42

Conserve your air compressor! il Nat Pet N 34:30-2 Ap 8 '42

Control of the operating cost of air compressors. F. Ryder. Blast F & Steel Pl 30:1018-22 S '42

Diesel conversion shows great reliability; engine originally operated on natural gas; Olean glass factory. il Diesel Power 19:1021-2 D '41

Diesel engines guard vital war production; air compressor drives; Republic aviation corp. il Diesel Power 20:203-4 Mr '42

How to add years to compressor life. C. W. Gibbs. il Factory Management 100:129-31 S '42

Opening Montana chromite deposits. W. J. Moore. il Comp Air M 47:6765-7 Je '42

Our compressor didn't stop on overpressure. G. L. Hess. diag Power 86:743-4 O '42

See also

Compressed air

Lubrication

Part of correct lubrication in equipment maintenance. S. S. Hansen. il Power Pl Eng 46:73-4 S '42

Manufacture

Finishing air compressors; no-enclosure paint spraying area. il Metal Finishing 40:277-8 My '42

Safety measures

Compressed-air plant and air liquefaction. J. Creevey. Chem Age (Lond) 46:301 Je 20 '42

Pressure vessel hazards. Safety Eng 83:40 Ap '42

Ten rules for safe air-compressor operation. Power 86:265 Ap '42

AIR compressors, Portable

Broom and Wade two-stage air-cooled air compressor. il diags Engineering 154:286-8 O 9 '42

Good use for old refrigerators; air compressor for spray painting. A. Knox. Power Pl Eng 46:114 My '42

Maintenance and care of portable air compressors. R. Gross. il Rock Prod 45:46+ S '42

AIR conditioning

Air-conditioning aids production of P-T boats; Higgins industries, New Orleans. Marine Eng 47:114 Jl '42

Air conditioning goes to war; outstanding wartime uses. W. B. Henderson. il Heat & Ven 39:50-2 Mr '42

AIR conditioning—*Continued*

Are radiators necessary in air conditioned buildings? S. R. Lewis. Heating-Piping 13:749 D '41

Committee on research, ASHVE; annual report, 1941. il Heating-Piping 14:323-30 My '42

Crane cab air-conditioners now highly developed; Lintern corp. il Steel 111:89 Jl 6 '42

Engineer mirror plant operated by United States army at Mariemont, Ohio, is completely air conditioned. J. F. Kern, jr. il Heat & Ven 39:42-4 Ja '42

Fight for the ceiling; air conditioning engineer, lighting engineer and the acoustical engineer, each must claim part of ceiling for his equipment. K. C. Porter. il Heating-Piping 14:484-5 Ag '42; Discussion. 14:550-1 S '42

How air conditioning aids the war effort. M. Ingels. Heating-Piping 14:543 S '42

Humidity control in underground bombproof spaces. E. Ledoux. il Heating-Piping 14:6-8, 364-6 Ja, Je '42

Man behind the man behind the man behind the gun—the air conditioning engineer. F. O. Jordan. Heating-Piping 14:220-2 Ap '42

Military clinic air conditioned by absorption units. R. Latimer. il Heat & Ven 39:38 O '42

New laboratory provided with clean temperature-controlled air; Harper chemical laboratory of the Vanadium corporation of America. Mach 48:125 D '41

Ozone in ventilation and air conditioning. J. A. Robinson. il Heating-Piping 13:759-60 D '41

Steel production aided by air conditioned crane cabs. H. W. Moore. il Heating-Piping 14:111-13 F '42; Same abr. Steel 110:102+ Je 15 '42

Storage of refrigeration a method of increasing air conditioning capacity. C. J. Otterholm. Heating-Piping 14:231 Ap '42

Ultraviolet in air conditioning systems. T. R. Porter. il Heat & Ven 39:27-9 S '42

See also

Air conditioning equipment
Air conditioning industries
Air filters
Car cooling
Cooling
Electricity in air conditioning
Exhaust systems
Gas in air conditioning
Heating
Humidity
Ozone
Smoke prevention
Ventilation

also subdivision Air conditioning under special subjects, e.g.

Airplane factories
Airplanes
Bank buildings
Biological laboratories
Drafting rooms
Factories
Hosiery mills
Laboratories
Library buildings
Munition factories
Newspaper offices
Office buildings
Printing offices
Rayon mills
Store buildings

Hygienic aspects

Gas service manual; air conditions affecting health and comfort. W. L. Riehl. Gas Age 88:30+ D 18 '41

Health hazard of refrigerants. F. W. Hutchinson. Heat & Ven 39:21-3 Je '42

Health vs. comfort vs. efficiency. F. W. Hutchinson. Heat & Ven 38:28-9 N '41

Highlights of Detroit Edison's air conditioning health survey. H. S. Walker. il Heating-Piping 14:677-8 N '42

Human element in air conditioning. C. E. A. Winslow. Heat & Ven 39:66 Ap '42

Humidity as a health factor in air conditioning. F. W. Hutchinson. Heat & Ven 39:22-4 Ap '42

Physiological influence of atmospheric humidity; second report of the ASHVE technical advisory committee. bibliog Heating-Piping 13:774-7 D '41; Discussion. 14:268-9 Ap '42

Temperature as a health factor in air conditioning. F. W. Hutchinson. Heat & Ven 38:27-9 D '41

Tables, calculations, etc.

Air in contact with water; analyzing air conditioning and heat exchange processes with the psychrometric chart. W. Goodman. Heating-Piping 14:169-72, 237-40, 299-301 Mr-My '42

Analysis of periodic loads in composite walls. B. F. Raber and F. W. Hutchinson. diags Heating-Piping 14:367-8 Je '42

Application of the effective temperature scheme to the comfort zone in Netherlands India. J. A. Wiesebron and others. bibliog diags Heating-Piping 14:632-40 O '42

Geauque air conditioning chart; reference data. R. E. Geauque. Heat & Ven 39:62a-62b F '42

Graphical analysis of periodic loads. B. F. Raber and F. W. Hutchinson. Heating-Piping 14:241-2 Ap '42; Discussion. 14:298 My '42

Heat gain through walls and roofs as affected by solar radiation. F. C. Houghten and others. bibliog Heating-Piping 14:306-12; Discussion. 312-13 My '42

Plumbing, heating, and air conditioning shop mathematics. H. D. Harper. 168p $1.50 Van Nostrand '42

Psychrometric properties of atmospheric air. R. D. Blum. Refrig Eng 43:227-31 Ap '42

Where is the sun? charts for determining the azimuth, altitude and incident angles; useful in calculating solar heat gains. M. J. Wilson and J. M. Van Swaay. diags map Heat & Ven 39:41-6 My; 59-61 Je '42

See also

Cooling—Tables, calculations, etc.

AIR conditioning, Industrial

Ace carton corporation builds windowless plant with year-round air conditioning system. H. B. Reinhardt, jr. il diag Heat & Ven 39:34-9 Jl '42

Advantages of industrial air conditioning; abstract. J. Partington, jr. Heat & Ven 39:69 Je '42

Air conditioning benefits blast furnace operation. E. K. Miller. il Steel 109:88, 91+ N 10 '41; Same. Blast F & Steel Pl 29:[1103-7] N '41

Air conditioning goes to war; outstanding wartime uses. W. B. Henderson. il Heat & Ven 39:50-2 Mr '42

Air conditioning improves furnace performance. F. C. Wood. il Steel 110:86, 89-90 F 9 '42

Air-conditioning in the mechanical industries. Mach 48:124 F '42

Air conditioning is a tool in production of accurate gages at Greenfield tap & die corp.'s new Massachusetts factory. il diags Arch Forum 75:432-4 D '41

Air conditioning to increase production of silvery pig iron. J. I. Lyle. Heating-Piping 14:232-3 Ap '42

Air conditions for precision gages; Pratt and Whitney. C. L. Roberts. Heating-Piping 14:160 Mr '42

Air humidity control in laboratory knock testing; abstract. H. W. Kellogg. Nat Pet N 34 pt 2:R387 O 28 '42

Aircraft engines breathe conditioned air while on test; abstract. C. A. Chayne. Heating-Piping 14:405 Jl '42

All-weather laboratory for testing bomber instruments; Sperry gyroscope company. F. A. Westbrook. il Heat & Ven 39:38 S '42

American Coils' chamber for testing instruments. il Refrig Eng 44:322 N '42

Balanced air conditioning essential for quality fabric production. il Rayon 23:355-7 Je '42

Blast furnace air-conditioning will increase production; abstract. R. VD. Dunne. Blast F & Steel Pl 30:226 F '42

Buick division plant for manufacture of army plane engines; heating, ventilation, and air conditioned test cells. G. S. Whittaker. Heat & Ven 39:29 Jl '42

Controlled atmosphere storage for Jonathan apples; storing in four levels of carbon dioxide concentration by restricted ventilation. H. H. Plagge. bibliog il Refrig Eng 43:215-20 Ap '42

AIR conditioning, Industrial—*Continued*

Dr Salsbury's laboratories; manufacturer of livestock and poultry vaccines and bacterins: air conditioning important. il Heat & Ven 39:32-3 F '42
Dry blast and production for war; air conditioning for blast furnaces. R. VD. Dunne. diag Refrig Eng 44:19-22, 58; Discussion. 58, 60 Jl '42
Dry blast for blast furnaces. D. Wolochow. Metal Prog 42:546+ O '42
Effect of moisture in blast air. R. J. Cowan. il diag Iron Age 150:43-50 N 12 '42
Eggs kept at 60F and 85% in conditioned auction vaults. Heat & Ven 38:42 N '41
Functional uses of air conditioning and refrigeration as related to the war effort. Heating-Piping 14:613-14 O '42
Harnessing the stratosphere; new units to test aircraft parts and accessories. D. Tenney. il Aviation 41:137+ O '42
How air conditioning aids the war effort. M. Ingels. Heating-Piping 14:543 S '42
Industrial production processes to which refrigeration is essential. L. L. Lewis. Refrig Eng 44:83-5 Ag '42
Laboratory equipment takes over for the elements; testing airplane engines for altitude performance. Refrig Eng 44:258 O '42
Libbey-Owens-Ford glass co.; humidity control for safety glass manufacture. L. T. Avery. flow diag il diag Heat & Ven 39:45-7 Ja '42
Mine air treated; problem of roof falls attacked through installation of conditioning plant. Business Week p57-8 Jl 25 '42
Minneapolis-Honeywell regulator co.; humidity control system for manufacture of gun sights. J. E. Haines. il diag Heat & Ven 39:40-2 O '42
Minneapolis show case mfg. co. prevents condensation in space between show case windows. M. Figen. il Heat & Ven 39:28 Je '42
99 and 44/100% dry air for circuit breakers. C. Thumim. il diags Power 86:240-2 Ap '42
Owens-Corning Fiberglas corp. air conditioning system. il Heat & Ven 39:81-3 Ja '42
Precise weather needed for precision work; underground laboratory for manufacture of measuring instruments. W. S. Bodinus. il plan Heating-Piping 14:544-6 S '42
Radio parts tested under extreme temperature ranges. Refrig Eng 44:280 O '42
Rapid metallurgy in war production; vs. new equipment. G. S. Evans. il Iron Age 149:31-5 Ap 23 '42
Raymond laboratories, inc.; dehumidifiers to reduce moisture in permanent wave pad manufacturing. M. Figen. il Heat & Ven 39:35-6 Mr '42
Refrigeration for comfort conditioning to be drafted for essential production; machines needed for synthetic rubber plants. E. P. Heckel. il Heating-Piping 14:650-2 N '42
Removal of refrigeration equipment from existing comfort conditioning systems for use in war production; disconnecting, removing, and re-installing. A. E. Vroome. il Heating-Piping 14:647-9 N '42
Takes over for the elements; airplane testing laboratory will produce different atmospheric conditions. Gen Elec R 45:592 O '42
Variation of humidity is quickly apparent in yarn quality. Rayon 23:116+ F '42
Voluntary cut of 35-50% in air conditioning is proposed by A. C. & R. industry committee. Heat & Ven 38:46-7, 72 N '41
War industries number; industrial air conditioning. il diags plans Heat & Ven 39:41-112 Ja '42
White Burley tobacco; what the engineer should know about its production. L. S. O'Bannon. bibliog Mech Eng 64:187-92 Mr '42; Discussion. 64:555-7 Jl '42

See also
Dehumidifiers

AIR conditioning equipment

Air conditioning, added; Florida power and light company building. il diag Dom Eng 159:55-6+ Ap '42
Air conditioning to meet office-building needs; Metropolitan Life's home offices. il diags plan Power 86:234-6, 253-4 Ap '42
Architects offer suggestions to heating and air conditioning equipment manufacturers. il Arch Rec 90:100-1 D '41
Capillary cell and its application in air conditioning equipment. il Refrig Eng 43:304 My '42
Charles Pfizer company air conditioning equipment. L. J. Wachs and W. H. Wetherell. il Heat & Ven 39:72-5 Ja '42
Explanation of L-38. Heat & Ven 39:54-5 Jl '42
Gevaert company of America, photographic supply manufacturers, air conditioning system. J. J. Goovaerts. il Heat & Ven 39:66-9 Ja '42
Mechanical equipment of air raid shelters; ventilation for protection against war gases. F. H. Slade. il (cover) diags Refrig Eng 44:217-21+ O '42
New equipment. Published in monthly numbers of Heating and ventilating
New materials used in air conditioning system; non-metallic ductwork in Crosley's broadcasting studio. Refrig Eng 44:174 S '42
Plastic tubing, a war baby; new material with many possibilities in heating, piping and air conditioning. C. B. Branch and D. L. Gibb. il Heating-Piping 14:353-4 Je '42
Removal of refrigeration equipment from existing comfort conditioning systems for use in war production; disconnecting, removing, and re-installing. A. E. Vroome. il Heating-Piping 14:647-9 N '42
Review of power and mechanical equipment; heating, ventilating, refrigeration and air conditioning. il diags Power 85:946-9 Mid-D '41
Three-zone air conditioning system serves shop, offices and drafting room; war production plant. T. H. Mabley. il Heating-Piping 14:401-2 Jl '42
Use of cold accumulators in the air conditioning field. R. W. Evans and C. J. Otterholm. diags Heating-Piping 13:582-90 S '41; Discussion. 14:205-7 Mr '42
Wide variety of standard heating and air conditioning equipment in war use; army posts and naval stations. F. Pederson. il Heating-Piping 14:153-4 Mr '42
Your place in the smart man's war; conservation in heating and air conditioning work. G. W. Meek. il Heating-Piping 14:463-6 Ag '42

See also
Air filters
Dehumidifiers
Fans, Mechanical
Humidifiers

Control

Automatic capacity control. diags Refrig Eng 43:4-6 sec 2 Ap '42
Chemical conditioning system for independent humidity control; administration and factory offices. E. A. Windham. il diag Heating-Piping 14:25-7 Ja '42
Double duct air conditioning system meets individual room requirements; Detroit Edison co. general offices building. J. N. Livermore. il diags Heating-Piping 14:91-5 F '42
Painesville Telegraph air conditions its windowless plant; method of zone control. L. T. Avery. il plans Heat & Ven 39:28-31 F '42
Some practical pointers on temperature control. W. Goodman. diags Heating-Piping 14:661-5 N '42
Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

Fires and fire protection

Air-conditioning system fire yields lessons. Sci Am 166:199-200 Ap '42
Blaze in retail store's air conditioning system gives fire safety data. Heating-Piping 14:sup212-14 Ja '42
How to save critical metals in specifying nonspark fans. E. P. Heckel. Heating-Piping 14:229 Ap '42

AIR conditioning equipment—*Continued*

Maintenance and repair

How a hotel chain maintains its air conditioning systems; methyl chloride substituted for Freon in some cases. H. W. Genone. il Heating-Piping 14:345-6 Je '42
How operation and maintenance are organized at air conditioned plant. il Heating-Piping 14:15-18 Ja '42
Inspect air-conditioning equipment daily; abstract. E. F. Davis. Ry Mech Eng 116: 349-50 Ag '42
Operating and maintenance engineers have vital job to do in wartime. L. S. Ries. il Heating-Piping 14:471-2 Ag '42
P-126 gives high priority ratings for air conditioning repairs. Heating-Piping 14: 289 My '42

Manufacture

Parks-Cramer in new home. il Textile World 92:90 Ja '42
Shortcuts in making air-conditioners. J. S. Graham. il Steel 109:73 N 24 '41

Noise

Bases for sound insulation of fans and motors. il diags Sheet Metal Worker 33:102, 104+ Ja '42
Determining sound attenuation in air conditioning systems. D. A. Wilbur and R. F. Simons. diags Heating-Piping 14:317-21; Discussion. 322 My '42
Noise levels, how to figure them. W. Goodman. il Heating-Piping 13:737-9 D '41
Radio City (San Francisco), where air conditioning is an essential service; elimination of sound and vibration. il Dom Eng 159: 42-3+ Je '42

Power

Curtailment of power for comfort air conditioning. W. F. Friend. Refrig Eng 44:7-9+ Jl '42
Diesel drive for passenger air conditioning. J. R. Hornaday. flow diags il Refrig Eng 43: 139-42 Mr '42

Safety measures

Dermatitis occurring among operators of air conditioning equipment. L. Schwartz and J. E. Dunn. Ind Med 11:375-8 Ag '42

Water requirements

Air in contact with water; analyzing air conditioning and heat exchange processes with the psychrometric chart. W. Goodman. Heating-Piping 14:169-72, 237-40, 299-301 Mr-My '42
Corrosion tests in a water-recirculating air conditioning system. W. Z. Friend. il Heating-Piping 14:187-90 Mr '42
Refrigeration requirements affect design of water cooling equipment. L. T. Mart. il Refrig Eng 42:365-8; 43:17-21 D '41-Ja '42
Scale and corrosion control in water and brine systems. J. A. Holmes. il Refrig Eng 43: 145-8+ Mr '42
What is the efficiency of that gas plant cooling tower or air cooling device? W. F. Schaphorst. chart Am Gas J 157:38 O '42

See also
Water, Underground
—Cooling uses

AIR conditioning industries

All industry conference of the air conditioning and refrigeration industry. Heating-Piping 14:355-6 Je '42
Chrysler Airtemp trains retail salesmen by mail. C. J. Swan. Ptr Ink 197:15-17 N 28 '41
Coding chart for air conditioning and refrigeration applications. Refrig Eng 43:353 Je '42; Same. Heating-Piping 14:351 Je '42; Same. Dom Eng 159:51 Je '42
Curb air conditioning, commercial refrigeration. Elec W News ed 118:1190 O 10 '42
How we sold evaporate cooling. A. W. Buschmann. il Sheet Metal Worker 33:36, 38+ Ap '42
Planning for merchandising; time table for heating and cooling equipment selling. il Sheet Metal Worker 33:63, 66-74 Ja '42
Refrigeration and air conditioning industry victory program; abstract. W. R. Hainsworth. Refrig Eng 43:347-8 Je '42
69 evaporative units in 69 days; J. A. Brucken co. experience in evaporative cooling business. il Sheet Metal Worker 33:36, 38+ Je '42
Victory program committee pushes conservation plan. Refrig Eng 44:76 Ag '42
Voluntary cut of 35-50% in air conditioning is proposed by A.C.&R. industry committee. Heat & Ven 38:46-7, 72 N '41
War's jolts fail to halt Airtemp's dealer training and advertising. P. B. Zimmerman. Sales Management 50:58 Mr 15 '42
Your place in this smart man's war; conservation in heating and air conditioning work. G. W. Meek. il Heating-Piping 14: 463-6 Ag '42

Advertising

Movie of bomber attacking miniature plant sells air conditioning. W. R. Mason. il Ind Marketing 27:26-7+ Je '42

Directories

Directory section; manufacturers of equipment used in warm-air heating, air conditioning, ventilation and sheet metal work. Sheet Metal Worker 33:151-69 Ja '42
Heating, piping and air conditioning equipment for industry and large buildings; classified by products, trade names and manufacturers' addresses. Heating-Piping 14:sup239-325 Ja '42

Statistics

Growth of air conditioning in recent years. Edison Elec Inst Bul 10:350 S '42
Industrial air conditioning doubled in 1941 compared with '40, Edison electric institute annual report shows. map Heat & Ven 39: 56-8 S '42

AIR conditions

Comfort conditions in rooms influenced by ionization. Heat & Ven 39:58 S '42
Measurement of the physical properties of the thermal environment; report of the ASHVE research technical advisory committee on instruments. Heating-Piping 14:382-5 Je '42
Water in air; supersaturation and condensation; abstract. Hirsch. Chem & Ind 60:862 D 6 '41

See also
Air—Analysis
Air conditioning
Air pollution
Air purification
Atmospheric temperature
Dust
Humidity

AIR defenses

See also
Air raids—Protective measures
Guns, Anti-aircraft

AIR ejectors

Simple air ejector; abstract. J. H. Keenan and E. P. Neumann. diag Power 85:982 Mid-D '41

AIR entrainment. See Water flow

AIR express service

New age in the air. A. B. Wells. il Mag of Wall St 70:281-3+ Je 27 '42
Railway and air express, parcel post. C. E. Johnston. 63p, 54p, 35p $2.60 International textbook co, Scranton, Pa. '41

See also
Air lines—Freight service

Bibliography

Recent references on air freight and express. A. G. Renstrom. 11p Lib. of Congress, Division of aeronautics, Washington, D.C. '42

AIR filters

Air filters cover entire ceiling of production paint shop; Westinghouse Electric works. il Heating-Piping 14:428 Jl '42

AIR filters—*Continued*

Filters clean air to pulverizer seal, Iowa electric light & power company. il Elec W 118:466+ Ag 8 '42

Mechanical equipment of air raid shelters; ventilation for protection against war gases. F. H. Slade. il cover diags Refrig Eng 44:217-21+ O '42

Predicting dust concentration. F. B. Rowley and R. C. Jordan. il Heating-Piping 14:19-22 Ja '42

Profits on sneezes; air filters for relief of hay fever and asthma sufferers. B. G. Heebink. Sheet Metal Worker 32:62+ N '41

Syracuse post-standard installs exhaust ventilating system in pressroom; filters prevent flying ink particles from coating the ductwork and fan. D. M. Lyon. il Heat & Ven 39:29 Je '42

See also
Air cleaners
Airplane engines—
Air filters

Testing

Overloading of viscous air filters during accelerated tests. F. B. Rowley and R. C. Jordan. il diags Heating-Piping 14:438-47 Jl '42

AIR flow

Air discharge from narrow slots. F. F. Stevenson. il Heating-Piping 13:308-10, 368-70 My-Je '41; Discussion. 13:558-60, 690-2; 14:23-4 S, N '41, Ja '42

Air flow measurement by the dilution method. T. Hatch and R. H. Walpole, jr. diags Heat & Ven 39:24-6 Je '42

Air flow through intake valves. G. B. Wood, jr. and others. diags S A E J 50:212-20+ Je '42

Air movement in refrigeration. H. C. Hoover. il diags Refrig Eng 43:283-6 My '42

Characteristics of double pitot tubes. F. R. Ingram, E. Diez-Canseco and L. Silverman. bibliog diags Heating-Piping 14:702-7 N '42

Cylinder proportions; experiments showing the influence upon air movement in a compression-ignition engine. C. B. Dicksee. diag Automobile Eng 32:159-61 Ap '42

Effect of vanes in reducing pressure loss in elbows in 7-inch square ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. bibliog il diags Heating-Piping 14:566-73 S '42; Excerpts. Sheet Metal Worker 33:47-9 D '42

Entrainment and jet-pump action of air streams. G. L. Tuve, G. B. Priester and D. K. Wright, jr. il diag Heating-Piping 13:708-15 N '41; Abstract. Heat & Ven 39:64 F '42; Discussion. Heating-Piping 14:265-7 Ap '42

Fan laws; their derivation and use. W. Goodman. il Heating-Piping 14:487-90, 535-7, 617-19 Ag-O '42

Flooding velocities in packed towers; comparison of determination by visual and pressure drop methods. B. R. Sarchet. bibliog il diag Am Inst Chem Eng Trans 38:283-301; Discussion. 301-4 Ap '42

Heat transfer from wires to air in parallel flow. A. C. Mueller. bibliog diags Am Inst Chem Eng Trans 38:613-27; Discussion. 627-9 Je '42

Measuring air flow at intake (or exhaust) grilles; tests made by G. L. Tuve give factors and recommendations for proper use of new attachment for air velocity meters. il Heating-Piping 13:740-3 D '41

Metering flow; area meters. diags Power 86:99 F '42

Null-type instrument for measuring low air velocities. L. Silverman. diags Heat & Ven 39:48 S '42

Performance of a forced warm-air heating system as affected by changes in volume and temperature of air recirculated. A. P. Kratz and S. Konzo. il Heating-Piping 14:375-81 Je '42; Abstract. Sheet Metal Worker 33:36, 38+ Jl '42

Performance of side outlets on horizontal ducts. D. W. Nelson and G. E. Smedberg. il diags Heating-Piping 14:686-93 N '42

Performance of stack heads equipped with grilles. D. W. Nelson, D. H. Lamb and G. E. Smedberg. il diags Heating-Piping 14:61-8 Ja '42; Abstract. Sheet Metal Worker 33:36, 38, 40 Mr '42

Power costs are lower if dust exhaust systems are well balanced. W. C. L. Hemeon. diags Heat & Ven 38:18-25 D '41

Pressure loss caused by elbows in 8-in. round ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. il charts Sheet Metal Worker 33:44, 46, 48+ F '42

Transfer processes in annuli. J. H. Wiegand and E. M. Baker. bibliog Am Inst Chem Eng Trans 38:569-88 Je '42; Discussion. 38:588-92, 719-22 Je, Ag '42

See also
Aerodynamics
Compressed air
Gas flow

AIR hygiene foundation. See Industrial hygiene foundation of America

AIR lines

Commercial air transportation, by J. H. Frederick. Review. Ry Age 112:343-4 F 7 '42

Europe-Africa air lines. Business Week p82 Ag 15 '42

More air service; plane lines linking U.S. to Latin America and to United nations. map Business Week p32 My 16 '42

New age in the air. A. B. Wells. il Mag of Wall St 70:281-3+ Je 27 '42

See also
Aeronautics, Commercial
Air express service
Air mail service
Air travel
Airports
Airways
Pan American airways

Accounting

Accounting for air transportation. M. W. McQueen. N A C A Bul 23:345-69 N 15 '41

Buildings

Styling of PCA's executive offices. il Aero Digest 41:131-2+ Ag '42

Directories

Directory of United States airlines. Aviation 41:221-2 F '42

Employees

American Airlines' four-year mechanics' course. R. H. Burck. il Instruments 15:98 Ap '42

Pan American's training program for service mechanics; use of slide films. J. Howard. il Aero Digest 41:225+ O '42

Preparation for airline pilot training. W. J. White. il Aero Digest 39:54-5+ D '41

United's suggestion conference. F. A. Denz. il Aviation 41:213, 215+ S '42

See also
Air lines—Stewardesses

Fares

Board indicates it will approve Travel-card plan. Civil Aero J 3:34 F 1 '42

Finance

Airline outlook re-appraised. S. Altschul. Aviation 41:198, 301-2 S '42

Airline progress and mail rates. S. Altschul. Aviation 41:179-80+ My '42

Air lines during the war and following it. S. Altschul. Pub Util 30:208-15 Ag 13 '42

Airlines enter new phase; service to be maintained, but expenses may rise. S. Altschul. il Barron's 22:3-4 F 2 '42

Airlines favored by war and peace. Comm & Fin Chr 156:1514+ O 29 '42

Aviation's changing trends. S. Altschul. Aviation 40:126, 214 D '41

Behind latest airmail pay decisions; rate of compensation to air lines based upon individual need. S. Altschul. Barron's 22:9 My 4 '42

Fastest growing air transport company; Northwest airlines, inc. S. Altschul. map Barron's 22:8 Mr 30 '42

AIR lines—Finance—*Continued*

Pan American's world-wide airways. S. Altschul. map Barron's 21:8 N 17 '41

See also
Air lines—Securities

Freight service

Air freight grows. Business Week p24+ F 14 '42

Freight takes to the air; trends and developments, with cost data. R. Der Tatevasion. il Iron Age 149:47-53 F 26 '42

Fresh beef delivered by plane in Bolivia. For Comm W 7:34 Je 6 '42

Hard facts of air cargo. Fortune 26:84-5 O '42

Latin American countries compiling air-freight data. For Comm W 7:27 My 16 '42

Railroads warned against coming air freight competition. L. N. Selig. il Ry Age 111:1049-52 D 20 '41

Refrigerator buildings flown by plane to Pan American tropical bases. il Refrig Eng 44:260 O '42

See also
Airplanes, Freight

Bibliography

Recent references on air freight and express. A. G. Renstrom. 11p Lib. of Congress, Division of aeronautics, Washington, D.C. '42

Maintenance and repair

Functions of the TWA instrument department. W. P. Danke. il Instruments 15:102+ Ap '42

How a great airline keeps its vital aircraft instruments clean. R. K. Farnham. il Instruments 15:122+ Ap '42

Importance of weight control in airline operation. C. Froesch. il Aviation 41:201-2+ Ag '42

Maintenance at Continental. S. R. Shatto and L. Wettengel. il Aviation 41:205, 207, 209+ S '42

More flying per day for airline planes; illustrations. Aviation 40:76-7 D '41

Northwest Airlines wins Aviation's maintenance award. il Aviation 40:52-3 D '41

Preventive maintenance to keep 'em flying. J. F. Martin. il Aviation 41:129-30+ Mr '42

Quick turn-around; Pan American airways wins Aviation's maintenance award. E. W. McVitty. il Aviation 40:50-1, 178, 180 D '41

Radio maintenance at United air lines. C. Walsh. Aviation 40:124 D '41

See also
Air lines—Shops

Management

Value of a pound saved by weight control. J. E. Ayers. Aero Digest 41:108, 111, 113-14+ O; 238+ N '42

Public relations

New liaison job; United air lines executive to take charge of relations with stockholders. Business Week p61 N 22 '41

Radio communication

CAA radio equipment. R. G. Nichols. il Radio N 27:33-5, 71-4 My '42

Radio maintenance at United air lines. C. Walsh. Aviation 40:124 D '41

Regulation

Steamship company told it can't control air-line; Civil aeronautics board disapproves American export lines. Civil Aero J 3:168+ S 15 '42

Safety measures

Fourteen airlines win NSC certificates. Nat Safety N 45:70 Ap '42

Schedules

Economic effects of airport size and airway deficiencies. A. E. Blomquist. Aeronautical Eng R 1:5-6, 9-10 O '42

Securities

Aviation in a war economy. S. Altschul. Aviation 41:133 F '42

Aviation's dividend prospects. S. Altschul. Aviation 41:199-200+ O '42

Shops

Chicago and Southern's base; Memphis overhaul shops. il Aviation 41:108-10, 113+ Ja '42

Wartime maintenance at United air lines. W. P. Hoare. il Aviation 41:231, 233, 235+ Jl '42

See also
Airplane shops

Statistics

Air carrier operations statistics for the 6-month period of July-December 1941 and 1940 and for the calendar years of 1941 and 1940. Civil Aero J 3:169-72 S 15 '42

Air carriers show operation gains in 6-month period; statistics for Jan.-June 1940 and 1941. Civil Aero J 2:285, 292-5 N 15 '41

Air travel statistics come of age. Ry Age 112:756-7 Ap 11 '42

Domestic air carrier traffic statistics for 1939, 1940, and 1941; charts. Civil Aero J 3:65 Mr 1 '42

U.S. airline progress, 1940-1941; pictograph. Civil Aero J 3:4 Ja 1 '42

Stewardesses

Hostess scarcity. Business Week p51 F 7 '42

Sky hostess. B. Peckham. 84p $1.75 Nelson '41

Terminals

Airport capacity imposes new problems on air transportation. A. Klemin. Sci Am 166:300-1 Je '42

Capacity of air-carrier terminals; considerations involved in location and arrangement. A. F. Bonnalie. bibliog plans Mech Eng 64:377-83 My '42

Conditioned air tunnel system; Northwest Airlines terminal supplies air to planes from central plant. M. Figen. il diags Heat & Ven 38:25-7 N '41

Economic effects of airport size and airway deficiencies. A. E. Blomquist. Aeronautical Eng R 1:5-6, 9-10 O '42

See also
Airport buildings
Airports

Traffic

How much passenger traffic? estimating future growth of domestic air traffic. E. A. Van Deusen. Aviation 41:215, 217-18+ O '42

It's harder to fly. Business Week p18 Je 27 '42

Transoceanic lines

Aircraft in peace and in war. G. L. Martin. il Aero Digest 40:142-4, 149-50 My '42

International air transportation; abstract. H. W. Peterson. S A E J 50:416 S '42

Alaska

Pan-American airways in Alaska. For Comm W 8:18 Jl 18 '42

Canada

Canada's bush air lines unified. map For Comm W 7:13 Je 20 '42

New top-of-the-world air routes. D. L. Moody. map Barron's 22:18 O 19 '42

Caribbean region

New air routes; CAB's plans for Caribbean services. Business Week p19 O 17 '42

Chile

Air services increased. For Comm W 6:14 Ja 3 '42

Germany

Air transport increases during 1941. For Comm W 7:15 Ap 18 '42

Latin America

Axis airline blackout; map. Business Week p32 D 27 '41

AIR lines—*Continued*

United States

Air lines during the war and following it. S. Altschul. Pub Util 30:135-42, 208-15 Jl 30-Ag 13 '42
Air lines go to war. S. Altschul. Barron's 22:13 Ag 3 '42
Air transportation in the United States; its growth as a business. H. Knowlton. 72p $1.25 Univ. of Chicago press '41
Airlines in 1941 and prospects for 1942. J. Frye; W. A. Patterson. Comm & Fin Chr 155:453-4, 467-8 Ja 29 '42
Army's airlines; civilian transport system taken over. Business Week p14 My 23 '42
Aviation's changing trends. S. Altschul. Aviation 40:126, 214 D '41
Board statement explains status of air carriers in connection with the national war effort. Civil Aero J 3:131+ Je 15 '42
More air stops; New York-Chicago schedules. Business Week p24 Ja 10 '42
OPM allocates 112 planes to airlines for '42. Civil Aero J 2:318 D 15 '41
Some air transport services suspended to aid war effort. Civil Aero J 3:131 Je 15 '42
United Air Lines' head discusses outlook; abstract. W. A. Patterson. Barron's 21:9 D 29 '41

AIR liquefaction. See Liquid air

AIR mail service
Air mail payment and the government. F. A. Spencer. 402p bibliog(p377-84) $3 Brookings institution, Washington, D.C. '41
Airline progress and mail rates. S. Altschul. Aviation 41:179-80+ My '42
Behind latest airmail pay decisions; rate of compensation to air lines based upon individual need. S. Altschul. Barron's 22:9 My 4 '42
Board decides against Panagra profit recapture. Civil Aero J 3:158 Ag 15 '42
Board increases mail pay for Braniff system. Civil Aero J 3:181 O 15 '42
Decision paves way for $4,000,000 mail pay recovery. Civil Aero J 3:88 Ap 1 '42
Extension of popular Airgraph now planned. For Comm W 6:31 Ja 17 '42
Inter-American air-mail service shows 34 percent increase. For Comm W 6:12 F 7 '42
Latin American air-mail rates reduced. For Comm W 9:14 O 31 '42
P.A.A. mail pay reduced to reflect normal profit. Civil Aero J 3:180 O 15 '42

AIR navigation. See Aviation

AIR pilots. See Aviators

AIR pipes
Air stack and branch chart. W. Scott. Sheet Metal Worker 33:42 F '42
Better draft layouts improve operation. J. Cassie. diags Elec W 118:759 S 5 '42
Conditioned air tunnel system; Northwest Airlines terminal supplies air to planes from central plant. M. Figen. il diags Heat & Ven 38:25-7 N '41
Contracts commanding priorities; installation details, forced draft duct, insulation and covering of smokestack breechings; Kings Park state hospital. il diags Sheet Metal Worker 32:28-30 D '41
Effect of vanes in reducing pressure loss in elbows in 7-inch square ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. bibliog il diags Heating-Piping 14:566-73 S '42; Excerpts. Sheet Metal Worker 33:47-9 D '42
Fastening and joining sheet metal ducts. D. A. Graham. diags Sheet Metal Worker 33:29-31 S '42
How ducts are made of substitute for sheet metal. T. M. Cunningham. il diags Heating-Piping 14:585-7 O '42
Hygrade Sylvania corp. fluorescent lamp plant employs reinforced concrete pipe for underground air ducts. il Heat & Ven 39:37 Mr '42
Industrial exhaust ventilation; branch and main piping. F. F. Kravath. chart Heat & Ven 39:46-9 Ap '42
Joining two duct sections. G. Klay. diags Sheet Metal Worker 33:34 Jl '42
Laying out rectangular ducts and fittings (cont). O. W. Kothe. diags Sheet Metal Worker 32:34-5 D '41; 33:56-7 Ja; 29-30 F; 30-1 Mr; 29-30+ Ap; 25-7 My; 28-9 Je; 28-9 Jl; 28-9 Ag; 26-7 S; 24-5 O; 24-5 N '42
New plant for fluorescent lamp production; Hygrade Sylvania uses concrete pipe for ducts. il Heating-Piping 14:162-3 Mr '42
Performance of side outlets on horizontal ducts. D. W. Nelson and G. E. Smedberg. il diags Heating-Piping 14:686-93 N '42
Performance of stack heads equipped with grilles. D. W. Nelson, D. H. Lamb and G. E. Smedberg. il diags Heating-Piping 14:61-8 Ja '42; Abstract. Sheet Metal Worker 33:36, 38, 40 Mr '42
Pressure loss caused by elbows in 8-in. round ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. il charts Sheet Metal Worker 33:44, 46, 48+ F '42
Reinforced concrete pipe used for underfloor air ducts at new plant; fluorescent lamp plant of the Hygrade Sylvania corp. S. M. Brown. diag Heating-Piping 14:282+ My '42
Substitute for metal in heating work; cold-air returns of sheetrock; United States gypsum co.'s remodel research house. il diag plans Sheet Metal Worker 33:23-4+ Ag '42

Tables, calculations, etc.

Equivalent rectangular duct sizes; with chart. W. T. Miller and J. N. Arnold. Heat & Ven 39:54-5 S '42
How to figure duct sizes. W. Goodman. chart Heating-Piping 14:106-10, 172 F-Mr '42

AIR pollution
Atmospheric pollution; Department of scientific and industrial research summary report. Engineer 173:273 Mr 27 '42
Atmospheric sabotage. F. W. Hutchinson. Heat & Ven 39:47-9 Jl '42
Benzene in air; dangerous concentrations signalled. Chem Age (Lond) 47:342 O 17 '42
Carbon monoxide and particulate matter in air of Holland tunnel and metropolitan New York. W. P. Yant and others. diags pls U S Bur Mines Rep of Invest 3585:1-69 '41
Determination of atmospheric contaminants; methyl cellosolve. H. B. Elkins, E. D. Storlazzi and J. W. Hammond. J Ind Hygiene 24:229-32 O '42
Effect of the inhalation of hydrogen chloride. W. Machle and others. diag J Ind Hygiene 24:222-5 O '42
Getting rid of air contaminants. G. C. Harrold. il Nat Safety N 44:20-1, 68-9 D '41
Industrial exposure to tellurium; atmospheric studies and clinical evaluation. H. H. Steinberg and others. bibliog J Ind Hygiene 24:183-92 S '42
Influence on atmospheric pollution of the exhausts from Diesel automotive vehicles and locomotives. R. J. Bender. Diesel Power 20:646-9 Ag '42
Investigation of atmospheric pollution; summary report on observations during the year ended March 31, 1941. Chem & Ind 61:150-1 Mr 28 '42
Maximal allowable concentrations; carbon tetrachloride. H. B. Elkins. bibliog J Ind Hygiene 24:233-5 O '42
Predicting dust concentration. F. B. Rowley and R. C. Jordan. il Heating-Piping 14:19-22 Ja '42
Some considerations concerning the siting of power stations; chimney emissions. F. Favell. Inst E E J 89 pt 2:220-3 Je '42
Standard methods for measuring extent of atmospheric pollution. C. E. Brown and H. H. Schrenk. bibliog(120 titles) il diag U S Bur Mines Information Circ 7210:1-19 '42
Toxicity and potential dangers of toluene, with special reference to its maximal permissible concentration. W. F. von Oettingen and others. (Pub. health bul. 279) 50p bibliog(p49-50) U.S. Public health service, Washington; pa 10c Supt. of doc. '42

AIR pollution—*Continued*

Working environment. M. A. Snell. il Nat Safety N 45:12-13+ Ja '42

See also

Air—Analysis
Air—Bacteriology
Benzene poisoning
Dust
Flue dust
Flue gas
Fumes
Gases, Asphyxiating and poisonous
Respiratory apparatus
Smoke
Smoke prevention
Ventilation

AIR preheaters

Blast furnace air heating; adaptation of tubular heaters. G. Auer. il Iron Age 149: 44-8 Ap 16; 43-8 Ap 23; 50-5, 109 bibliog(53 titles, p54-5, 109) Ap 30 '42

Pre-heater modernizes rotary kiln; Harefield lime co. H. Andrews. il Rock Prod 45:55-7 Je '42

Salvaging old preheaters. J. H. Sengstaken. il diag Power 86:186-7 Mr '42

AIR pumps

Molecular distillation; design of condensation pumps. D. D. Howat. diags Chem Age (Lond) 45:323-5 D 27 '41

AIR purification

Designing installations of germicidal lamps for occupied rooms. M. Luckiesh and L. L. Holladay. Gen Elec R 45:343-9 Je '42; Same cond. Electrician 129:219-22 Ag 28 '42

Effect of humidity on beta streptococci (group C) atomized into air. W. F. Wells and P. Zappasodi. bibliog Science 96:277-8 S 18 '42

Elimination of contaminants with ultraviolet radiation. A. M. Kligman. Science 96:69-70 Jl 17 '42

Germ-killing by ultra-violet light has great possibilities. Sci Am 166:297 Je '42

Protection of mice against infection with air-borne influenza virus by means of propylene glycol vapor. O. H. Robertson and others. bibliog Science 94:612-13 D 26 '41

Sanitary ventilation; eliminating microorganisms by ultraviolet radiation. W. F. Wells. diags Heating-Piping 14:143-5 F '42

Sterilized air cuts illness, gives us better products; Bristol-Myers co. H. C. Jackson. il diag Factory Management 99:81-2 D '41

Tests and data on disinfection of air with germicidal lamps. M. Luckiesh and L. L. Holladay. bibliog diags Gen Elec R 45:223-31 Ap '42

Ultraviolet in air conditioning systems. T. R. Porter. il Heat & Ven 39:27-9 S '42

See also

Air conditioning
Air filters
Dust removal
Ventilation

AIR raid shelters

Adoption of uniform classification urged. Arch Rec 91:16 Je '42

Aerial bombardment protection. H. E. Wessman and W. A. Rose. 372p $4 Wiley '42

Air-raid shelter for fifty people; Windham Center, Conn. il diags Eng N 128:904-5 Je 4 '42

Air-raid shelters for factory yards. il Eng N 129:430-1 S 24 '42

Air-raid shelters for single families and for apartment buildings. plans Concrete 50:16, 22+ Mr '42

Air raid shelters for 20,000,000 in Britain. Eng N 127:906 D 25 '41

Air-raid shelters; private types. A. D. Rathbone, IV. il diags Sci Am 167:117+ S '42

Bomb shelters for the home. O. Albert. Eng N 127:711 N 20 '41

Bomb tests of materials and structures; developing designs for air-raid shelters. il Eng N 128:185-7 Ja 29 '42

Brick masonry and other bomb shelters tested and compared by U.S., Britain. diags Brick & Clay Rec 100:31-3 F '42

California issues rules for air raid shelters. Eng N 128:148 Ja 22 '42

Central control station; nerve center of ARP activities, borough of Deptford, England. diags plan Arch Forum 76:63 Ja '42

Civil defence. C. W. Glover. 3d ed rev & enl 804p bibliog(p766-73) $16.50 Chemical pub. co. '41

Civilian defense; air raid shelters. il diags plans map Arch Forum 76:44-59 Ja '42

Concrete bomb shelter. J. C. Albright. il Power 86:811 N '42

Concrete bomb shelter is integral part of big aircraft plant. W. E. Reynolds. il Concrete 50:4-5+ N '42

Constructing air raid shelters. il diags plans Pub Works 73:31-6, 38-41 F '42

Dampness in underground air raid shelters; abstract. F. S. Smith. Eng N 128:422 Mr 12 '42

Design and construction of air-raid shelters. D. H. Lee. 86p bibliog(p85-6) 8s 6d Concrete publications, London '40

Design of protective structures and the defence of industry. J. F. Baker. Inst Mech Eng J & Proc 147:Proc 50-1 Ap '42; Same. Inst E E J 89 pt 1:172-3 Ap '42

Home shelter constructed entirely of wood, no nailing. il Business Week p42 Jl 11 '42

How bomb proof shelters are made; reenforced brick masonry. diags plan Brick & Clay Rec 100:32, 34+ Mr '42

Humidity control in underground bombproof spaces. E. Ledoux. il Heating-Piping 14:6-8, 364-6 Ja, Je '42

London utilizes deepest tunnels as super air raid shelters. il Eng N 129:457 O 1 '42

No priorities for raid shelters; our metal will be used to keep the enemy away. Am Bld 64:85 Mr '42

Report of bomb tests on materials and structures. 55p U.S. Office of civilian defense, Washington '41

Shelter having capacity of 50. il diags Arch Forum 76:sup14 My '42

Some engineering aspects of A.R.P. in England; excerpts. H. A. Bland. Am Water Works Assn J 34:288-91 F '42

Structural engineers select buildings for San Francisco air raid shelters. Eng N 127:907 D 25 '41

Suppose they bomb! digest of bulletin, Protective construction, prepared by the War department. Aviation 41:180+ Ja '42

Surface type of shelter; diagrams. Rock Prod 45:74-5 O '42

What shelter. il Factory Management 100: 110 Ja '42

Electric equipment

Deep shelters under London subway; duplicate electricity supplies. il Elec R (Lond) 131:481-4 O 16 '42

Heating and ventilation

Air in air raid shelters. W. L. Fleisher. diags Heating-Piping 14:413-14 Jl '42; Discussion. 14:473-4 Ag '42

Mechanical equipment of air raid shelters; ventilation for protection against war gases. F. H. Slade. il (cover) diags Refrig Eng 44:217-21+ O '42

Space heating by means of electrically warmed floors, as applied to surface-type air-raid shelters; with cost data. R. Grierson. plan Inst E E J 89 pt 2:4-34 F '42; Discussion. 89 pt 2:34-44, 242-8 F, Je '42

Ventilation and heating of air raid shelters. F. F. Kravath; J. F. Kern, jr. il diags plans Heat & Ven 39:36-50 F '42

AIR raid signals

Air raid alarm device. A. H. Vickerson and R. L. Gray. diag Elec Eng 61:496 S '42

Air raid siren field tests. L. M. Ball. maps Acoustical Soc Am J 14:10-13 Jl '42

Air raid warning problems and remote control. E. J. Madden. il diags Radio N 28: 14-15+ Jl '42

Alert receiver circuits. R. P. Turner. il diags Radio N 27:28-9, 56-9 My '42

Automatic air raid monitor warns Boston police transmitter operators when a local broadcast station transmits air raid warning tone. diag Electronics 15:60+ Jl '42

Automatic monitoring circuit; monitoring programs to intercept air raid warnings; any type of receiver with automatic volume control will operate device. F. Marx. il diag Electronics 15:39, 96 Mr '42

AIR raid signals—*Continued*

Centralized sound systems aid war production. S. Harman and H. Blair. il Radio N 28:30-2 Jl '42

Chrysler-Bell victory siren requires less critical materials. il diags Product Eng 13:573-5 O '42

Civilian air raid warning. T. J. Taaffe, jr. il diag Radio N 27:30-2, 69-70 My '42

Light-dimming equipment for A.R.P. signalling. il diag Engineering 153:406 My 22 '42

Low-frequency signals operate receiver; subaudible signals superimposed on radio program circuit turn on loudspeaker, light a lamp or sound an alarm. il diag Elec W 117:2090 Je 13 '42

OCD carrier current tests. Electronics 15: 59+ Ag '42

170-decibel siren in mass production by Chrysler. il Steel 111:64+ Jl 6 '42

Push button starts automatic raid alarm. R. T. Abernethy. diags Elec W 118:792+ S 5 '42

Silent air raid wardens. T. Healy. il diag Radio N 28:17+ Ag '42

Simple air-raid alarm; radio amplification tubes, build up noise of tone-oscillator tube. R. T. Hatt. Science 95:301 Mr 20 '42

Sirens must be heard. E. T. H. Hutchinson. il Nat Safety N 46:32 Ag '42

Sound systems for war plants. S. Harmon. il plan Radio N 28:22-4+ S '42

Survey on air raid alarm signals. J. E. Volkmann and M. L. Graham. il Acoustical Soc Am J 14:1-9 Jl '42

Visual A.R.P. system. il diag Engineer 173: 147 F 13 '42; Elec R (Lond) 130:291 F 27 '42

War needs inspire siren design. C. H. Morris. il diags Machine Design 14:57-9 S '42

AIR raid wardens

Air raid warden in America; a manual. J. W. Lambert. 57p $1; pa 75c Hastings house, New York '42

Air raid wardens not permitted to tamper with water system operation; meeting of New Jersey section of the American water works association. Eng N 128:515 Ap 2 '42

Handbook for air raid wardens. 27p U.S. Office of civilian defense, Washington; pa 10c Supt. of doc. '41

Mexico and United States agree on air raid defense insignia. il Ind Stand 13:254 O '42

Television, an agency for preparedness; training air raid wardens. N. E. Kersta. Electronics 15:26-8 Mr '42

Television; the wartime instructor. A. Lescarboura. il map Radio N 27:42-3, 75-7 My '42

AIR raids

Air-raid damage. G. V. Harrap. il Elec R (Lond) 129:441-3 O 24 '41

Bomb damage; effects on power plant. J. N. Waite. Elec R (Lond) 131:365-6 S 18 '42

Bomb damage to industrial plants. C. H. S. Tupholme. Chem & Eng N 20:896-8 Jl 25 '42

Bombing and refrigeration; possible hazards. C. P. McCord. Refrig Eng 44:151-3 S '42

Bombs fail to cripple Shanghai power. W. Hunter and F. M. Young. il Elec W 117: 1652-5 My 16 '42

Can U.S. plants be bombed? G. R. Hutchinson. Power Pl Eng 45:51 D '41

Civil defense observations; abstract. G. C. Richards. Eng N 127:743 N 20 '41

Disestablishment of ARP. Economist 142:564-5 Ap 25 '42

Effect of air raids on British power systems. G. V. Harrap. il Elec Eng 61:231-41 My '42

Effect of the war on foreign power systems; information from England and China. Power Pl Eng 46:63-4 N '42

First aid in enemy action; Red Cross training. L. M. Thompson. il Safety Eng 83: 37-8 F '42

How Britain withstands its bombings; abstract. W. D. Binger. Eng N 127:708 N 20 '41

How London's gas men defeat raiders; personal narrative. il Gas Age 88:32-3 N 20 '41

If it happens here; first-aiders demonstrate their preparedness; Western Electric Kearny works. il Nat Safety N 45:12-13 Ap '42

Instructions for pumping out ammonia systems in case of air raids. Refrig Eng 43: 165 Mr '42

London gas company system for dealing with bomb damage. M. Milne-Watson. Pub Util 29:509-10 Ap 9 '42

Medical organisation and surgical practice in air raids. P. H. Mitchiner and E. M. Cowell. 2d ed 296p $3.25 Blakiston '41

National defense, utility conditions in England as viewed by an official U.S. observer. F. M. Reessing. Am Gas Assn Proc 1941:627-34; Same cond. il Am Gas J 155: 31-2, 34-6 D '41

Overcoming raid damage. il Elec R (Lond) 129:495-8 N 7 '41; Same abr. Edison Elec Inst Bul 10:19-20 Ja '42

Punch shows us how England takes it; cartoons. Edison Elec Inst Bul 10:5-6 Ja '42

Railways and air raids. il diags Engineer 173: 136-9, 152-4, 174-7, 196-7+, 220-2, 244-6, 247, 270-3, 280-1, 302-4, 322-5, 340-2, 361-4 F 13-My 1 '42

Restoring supply; measures taken after air-raid damage. il Elec R (Lond) 129:527-31 N 14 '41

Sewer squad organization for air raids in Chicago. Eng N 128:423-4 Mr 12 '42

Some war experiences of the British banks. R. M. Binney. Bankers M 145:123-8+ Ag '42

War for the skies; offensive by bomber. il Fortune 26:54-9, 161-2+ Jl '42

Wartime damage to power supply. H. S. Bennion. il Power Pl Eng 46:84-6 My '42

Water supply in air raids. il Eng N 128:192-3 Ja 29 '42

See also

Bombs, Aerial
Electric lines—Damage from air raids
Gas pipes—Damage from air raids
Insurance—Air raid risks
World war, 1939— Aerial operations

Protective measures

Aerial bombardment protection. H. E. Wessman and W. A. Rose. 372p $4 Wiley '42

Air raid defense organization set up by U.S. Steel. map Steel 111:69-70 Jl 13 '42

Air raid drill wins acclaim of army and civilian defense officials; Portland gas & coke company. D. M. Johnston. il Am Gas Assn Mo 24:253 Jl-Ag '42

Air raid instructions issued by the National restaurant association. Personnel J 20:239-42 Ja '42

Air raid instructions; what to do with the incendiary bomb. H. E. Ashmore. Am Gas J 156:13-14 Mr '42

Air-raid organization measures for water supply protection; developed by Chicago's bureau of engineering. il diags Eng N 128: 990-3 Je 18 '42

Air raid pocket guide. 33p pa 15c Penn publications, New York '42

Air raid precaution measures and the engineering industry; joint meeting with the Institution of civil engineers and the Institution of electrical engineers. Inst Mech Eng J & Proc 147:Proc 49-52 Ap '42

Air raid precautions for gas undertakings. R. J. Bennie. Am Gas J 156:25-30 Ja '42

Air raid precautions for transit. J. A. Miller. il Transit J 86:5-8, 64-7 Ja-F '42

Air raid protection; a bibliography. 10 numb l Los Angeles public lib, Municipal reference lib, Los Angeles '41

A R P; American inventiveness is turning out materials and devices for building protection. il Arch Forum 76:sup2, 4+ Mr '42

Air raid protection code prepared for federal buildings released to industry. Eng N 129: 391 S 17 '42

A.R.P. equipment at Crane limited. il Pulp & Pa of Can 43:342 Mr '42

Air raid protection for industry; abstract. Management R 31:19-20 Ja '42

A.R.P. for the factory. D. V. Baker. Steel 111:128+ O 5 '42

AIR raids—Protective measures—*Continued*

A.R.P. in apartments; New York building superintendents' initiative, plus aid from tenants and owners, produces fire buggies, etc. il Arch Forum 76:363-5 Je '42

A.R.P. in hospitals. il diags Arch Forum 77:49-56 Jl '42

A.R.P. in schools. bibliog il diag Arch Forum 77:45-50 O '42

Air raid protection in the bank. Bankers M 144:447-8 My '42

A.R.P. plans for hospitals, department stores and office buildings present problems for defense authorities. Weekly Underw 147:224-7 Ag 1 '42

Air raid protection; suggestions and data from official sources. Eng N 128:14-15 Ja 1 '42

Air raid protection; what to do, how to do it! A. Webb. 32p bibliog(cover) pa 25c Book-of-the-hour co, New York '42

Air raid safety manual; what you must know to protect yourself, your family and your home. B. Leyson. 92p pa $1 Dutton '42

Air raid safety plan for office buildings. J. J. Hennessy. Safety Eng 83:28 Je '42; Same. Nat Safety N 46:85-6 Jl '42

Air raid set-up in San Francisco. E. Burke. il Burroughs Clearing House 26:22-4+ My '42

Air raids vs. public relations. M. B. Leach. il Banking 34:90 F '42

Barrage balloons over land and sea. J. I. Waddington. il Aviation 41:157+ Ap '42

Barriers found best for bomb protection at generating stations. B. Hogben. Elec W 118:75 Jl 11 '42

Blackout and air raid howjadoits. il Bus Transportation 21:186-7 Ap '42

Blackout and camouflage paints formulated by the industry. Oil Paint & Drug Rep 140:7+ D 22 '41

Blackout practice and protection of power systems. il diags maps Power Pl Eng 46:58-76 N '42

Blackouts and air raids; model ordinance annotated; full text of ordinances of 12 cities. C. S. Rhyne. 36p pa $2 Nat. inst. of municipal law officers, 730 Jackson pl, Washington, D.C. '42

British Columbia Electric ready. il Elec West 88:55 Je '42

Brooklyn Union plans for defense. C. E. Paige and others. il Gas Age 88:17-28 N 20 '41; Same cond. Am Gas J 155:25-8, 31-2 N '41; Excerpt. Am Gas Assn Mo 23:378-80+ N '41

Camouflage on the oil front. M. L. Gendel. il Oil & Gas J 41:39, 41 Ag 13 '42

Can American water systems provide adequate civilian defense? with particular reference to fire service in vicinity of mains damaged by bombs. K. J. Carl. Water Works & Sewerage 89:194-7 My '42

Can you answer the questions when the fireman calls? questionnaire used by firemen in checking on plant protection in the Chicago area. Foundry 70:118 S '42

Chicago utility organized for air raids. il Eng N 129:438-9 S 24 '42

Cincinnati gas and electric company building on air-raid alert; illustrations and text. Gas Age 90:28 S 10 '42

Civilian defense; Britain's example. W. D. Binger. il Eng N 128:107-8 Ja 15 '42

Civilian defense; building protection. il diags plans Arch Forum 76:26-43 Ja '42

Civilian defense; protective concealment. 68p U.S. Office of civilian defense, Washington '42

Civilian defense reference number. il diags plans map Arch Forum 76:1-68 bibliog (p68+) Ja '42

Code of recommended practices for the protection of life, property and production in the foundry industry during the war. 72p bibliog(p71-2) pa $1.50 Am. foundrymen's assn, 222 W. Adams st, Chicago '42

Compulsory defense training; anti-air and anti-chemical defense in Russia. P. P. Koblelev. Personnel J 20:236-8 Ja '42

Counsel for the defense. J. B. Dunne. il Safety Eng 83:14-16 Ja '42

Decoy blackouts; dummy airfields, deserted roads, and empty areas; abstract. S. G. Hibben. Sci Am 166:8 Ja '42

Defend yourself against fires, bombs, gases. M. Weiss. 47p pa 25c Nathaniel Dame, 123 Roxbury st, Roxbury, Mass. '42

Defense of manufacturing plants. D. L. Fiske. Refrig Eng 43:15-16 Ja '42

Defense program of the motion picture theater. H. Anderson. Soc Motion Picture Eng J 38:526-31 Je '42

Developments in industrial camouflage. D. P. Barnes. il Civil Eng 12:453-6 Ag '42

Digboi field, Assam, early prepared for air raids. C. A. Petrie. Pet Eng 14:73-4 O '42

Discuss raid plant protection; executives and engineers of insurance carriers meet with officials. Weekly Underw 146:369+ F 14 '42; Same abr. East Underw 43:19 F 13 '42; Same abr. Nat Underw 46:9 F 12 '42

Don't wait for bombs to hit your plant. il Factory Management 100:103-10 Ja '42

Do's and don'ts for handling gas appliances in an air raid. Am Gas Assn Mo 24:52 F '42

Effect of high explosives on structures. J. D. Bernal. Inst Mech Eng J & Proc 147: Proc 49-50 Ap '42; Same. Inst E E J 89 pt 1: 171-2 Ap '42

Effective camouflage as means of protecting oil property. K. J. Keating. il Oil & Gas J 40:225-6 Mr 26 '42

Effects of air attack upon utility and other structures. W. D. Binger. Am Water Works Assn J 34:1328-34 S '42; Abstract. Eng N 129:99 Jl 16 '42

Emergency air raid equipment. M. A. Royal. Am Gas J 156:41 Ja '42

Emergency equipment for department store. il Power Pl Eng 46:109 Jl '42

Emergency organization of wartime transit; Toronto transportation commission. J. F. Neild. Transit J 86:57-9 F '42

Emergency squads for plant protection. T. L. Hazlett. Elec W 117:1348 Ap 18 '42

Employer's basic plans for air raid protection given by Travelers. East Underw 42:33 D 26 '41; Nat Underw 46:14 Ja 1 '42

Engineers attend bombardment school. Eng N 128:371 Mr 5 '42

England, its civilian protection and gas utility operations in war time. D. M. DeBard. Am Gas Assn Proc 1941:121-5; Same. Gas Age 88:48, 52-4 N 6 '41; Same. Am Gas J 155:22-4 N '41

England worked out air raid protection step by step. J. J. Carr. Am Gas J 156:29 F '42

Experiences of operating refinery in war area (France). il Oil & Gas J 40:78-9 Mr 26 '42

Experiments in extinguishing fires caused by air raids. Am Gas Assn Mo 24:158 Ap '42

Factory A.R.P. S. A. Mitchell. il Safety Eng 83:12-14 Mr '42

Factory: the bomber's attack and the camoufleur's defense. il Fortune 25:80-1 Mr '42

FWA's ABC's; how the government expects to protect its buildings. Business Week p70+ O 3 '42

Food plants prepare for air raids. T. R. Edwards, jr. il Food Ind 14:35-7 Mr '42

Fooling the aerial observer. J. W. Kosting. il Nat Safety N 46:24+ Ag '42

For the duration; Republic steel company plant protection plan. il Safety Eng 84:31-2 Ag '42

Gas industry's defense problem. G. F. B. Owens. Gas Age 89:19+ Mr 26 '42

Handbook for civilian defense. H. Mayer-Daxlanden. 88p pa $1 Civilian advisory service, New York '41

How and why of camouflage. H. Goff. il Aviation 41:104-5+ O '42; Same. Pet Eng 13:98, 100+ S; 14:33-4 O '42; Same. Steel 111:72-3+ N 2 '42

How gas companies assure continuous service. il Gas Age 90:51-4+ Jl 16 '42

In an emergency, it's, call the plumber! San Francisco Master plumbers assn. plan for air raids. Dom Eng 159:36+ Ap '42

Incendiary bomb structural protection. S. H. Ingberg. Weekly Underw 147:800-1 O 3 '42

AIR raids—Protective measures—*Continued*

Industry in home defense; San Francisco plumbers plan for repairing sewerage system in case of air raids. il Dom Eng 159: 54-5+ Ja '42

Make your own safety glass; home made tape will protect windows. il Am Bld 64: 91-2 Mr '42

Manual of high explosives, incendiaries and poison gases. I. Fairhurst. 110p pa $1 Fairhurst book co, Greenfield, Mass. '42

Maximum number of cross-connections recommended to offset effects of aerial attack. il Water & Sewage 79:19+ D '41

Metal sandbags make splinterproof walls. il Steel 110:60 Mr 30 '42

Metropolitan ready for air raid in New York. East Underw 42:13 D 26 '41

National City on the alert. Bankers M 144: 258-9 Mr '42

National defense and the gas industry. S. J. Beale. Am Gas J 156:12-16, 42-4 Ja; bibliog 15-18, 21 F '42; Same cond. Gas Age 88: 19-23+ D 18 '41

Oakland is prepared. il Elec West 89:64-5 Ag '42

O.C.D. plans for industry. il Safety Eng 83: 24-5+ Ja '42

Operation of distribution systems under bombing conditions. R. Bennett. Water Works & Sewerage 89:261-5 Je '42

Organization and training of water main emergency repair crews and auxiliary personnel assigned to emergency water service duties. Am Water Works Assn J 34: 803-22 Je '42

Organizing an emergency water works repair unit; Auburn, Maine. H. J. Cook. Water Works & Sewerage 89:177-8 Ap '42

Organizing the bank against air raid attack; Clinton trust company, Newark, N.J. il Burroughs Clearing House 26:4-6 Ap '42

Organizing to protect industrial plants. il Foundry 70:92, 94+ Ja '42

Plant demonstrates model industrial A.R.P. system; Westinghouse electric & mfg. co.'s East Pittsburgh works. il Steel 110:54-5+ Je 29 '42

Plant fires primary consequence of bombing. B. Hogben. Elec W 117:2065 Je 13 '42

Plant protection. il Am Mach 86:429-30 My 14 '42

Power stations in wartime; countering the effects of air attack. G. V. Harrap. Elec R (Lond) 129:567-9 N 21 '41; Excerpts. Elec W 117:62 Ja 10 '42

Practical air raid precautions make New York Postum office building as safe as most shelters. il plans Arch Forum 76: 147-9+ Mr '42

Procedure for air-raid protection. 29p Bethlehem steel co, Bethlehem, Pa. '42

Protect your plant from bombs and sabotage. il Food Ind 14:37-40 F '42

Protecting life, property and production; code of recommended practices developed by the Industrial hygiene codes committee of the American foundrymen's association. diags Foundry 70:110-11, 182-5 My; 60-1+ Je; 70-1+ Jl; 66-7+ Ag '42

Protection against aerial bombing; recommendations of Committee on civilian protection in war time, Metropolitan section, American society of civil engineers. il Civil Eng 12:116-18 F '42

Protection against plant damage. W. B. Dall. il Textile World 92:84-7 Jl '42

Protection aspects of civilian defense. S. B. Smith. il Civil Eng 12:269-71 My '42

Protection of electric public utility systems against air raids; experiences of electric utilities in Great Britain. A. V. DeBeech. bibliog Edison Elec Inst Bul 10:183-9 My '42

Protection of gas holders during air raids. A. D. Harrison. il Gas Age 89:14 Mr 26 '42

Protection of industrial plants and public buildings. Power 86:18-19 Ja '42; Same. Am Gas Assn Mo 24:48-9+ F '42

Protection of natural gasoline plants from air raids. D. Attaway. il diags Pet Eng (Annual no) 13:142, 145-6, 148 [Jl] '42

Protection of oil storage from bombs difficult. J. P. O'Donnell. il Oil & Gas J 40:39 Mr 12 '42

Protection of radium during air raids. diags U S Nat Bur Stand Handbook H38:1-17; pa 10c Supt. of doc. '42

Public water supply in the civilian defense program. R. E. Tarbett. N E Water Works Assn J 56:221-9 Je '42

Radio for blackouts and power line failures; air raid precautions. P. T. Williamson. il Radio N 27:51+ My '42

Railroads tackle problem of air-raid precautions. il Ry Age 112:782-6 Ap 18 '42

Ready for raids; Graton & Knight company; with organization chart. W. F. Robbins. il Factory Management 100:101-12 My '42

Rehearsal for disaster; air raid drill by occupants of Public service building, Portland, Ore. il Elec West 89:31-2 Jl '42

Safeguarding oil and gas wells against bombing and sabotage. J. O. Farmer. Oil & Gas J 41:49+ Ag 20 '42

Sand bag barricades used with asphalt admixture. il Eng N 128:77 Ja 15 '42

Some engineering aspects of A.R.P. in England; excerpts. H. A. Bland. Am Water Works Assn J 34:288-93 F '42

Sound and the victory program; use of loudspeakers for intercommunication, air raid warning, music, etc. S. C. Milbourne. il Radio N 27:9+ Ap '42

Sound for defense plants. R. P. Turner. il diags Radio N 27:16-17+ Ap '42

Suppose they bomb! digest of bulletin, Protective construction, prepared by the War department. Aviation 41:180+ Ja '42

Testing window glass for concussion damage. il Eng N 128:521 Ap 2 '42

Textile war manual; how to guard against sabotage and air raids. bibliog il Textile World 92:86-9 F '42

250 A.R.P. questions answered (high-explosive bombs, incendiary bombs, war gases and first aid). R. F. Reynolds, R. D. Wormald and J. M. Young. 3d ed rev 75p bibliog(p74-5) pa 1s Jordan & sons, London '41

United States Fidelity & Guaranty is prepared for raids at home office. Nat Underw 46:19 My 14 '42

Utility prepares for emergencies; Cambridge electric light company. il Elec W 117:481-2 F 7 '42

Voluntary defense training: by a Moscow housewife. Personnel J 20:231-5 Ja '42

War damage precautions. E. H. Collins. il Banking 34:41-2, 44 My '42

War emergency activities of the Southern California gas co. F. A. Herr. Am Gas J 156:10-12 Ap '42

Warns of impending attacks but declares industrial production must be maintained. J. M. Landis. Comm & Fin Chr 155:1260 Mr 26 '42

Wartime plant protection: an engineering problem. Business Week p16 Ja 3 '42

Wartime precautions. Banking 34:72 Ja '42

War-time protection of industrial plants; protection against air raids. bibliog diags Chem & Met Eng 49:106, 107-8 Ja '42

Water supply protection in civilian defense. R. E. Tarbett. Am Water Works Assn J 34:1335-42 S '42

What about bomb protection. J. M. Gorrie. diags Power 86:348-9 Ap '42

What can be done to provide civilian defense at and around the coal mines. il Coal Age 47:83-5 F '42

See also

Air raid shelters
Air raid signals
Air raid wardens
Air raids and building
Airplanes—Detection
Blackouts in war
Camouflage
Civilian defense
Lighting—War measures

Bibliography

Bibliography on national defense and air raid precautions for public utilities. L. Hilt, comp. Am Gas Assn Mo 23:283-6; 24:46-7 Jl-Ag '41, F '42

National defense and the gas industry. S. J. Beale. Am Gas J 156:15-18, 21 F '42

AIR raids—Protective measures—*Continued*

Records protection

Air raid precautions for protection of office records. Credit & Fin Management 44:45-6 Je '42

Care of cash and records in air raids. E. M. Van Norden. Bankers M 144:271-2 Mr '42

Protection of company records against air-raid hazards. P. G. Wharton. Am Gas J 157:9-10 Ag '42

Protection of cultural resources against the hazards of war; a preliminary handbook. 46p bibliog(p39-46) Nat. resources planning board, Washington, D.C; pa 10c Supt. of doc. '42

Protection of records. Banking 35:39 Jl '42

Safeguarding records from air raids. E. H. Conarroe. Edison Elec Inst Bul 10:340 S '42

War precautions for bank records. H. V. Odle. il Burroughs Clearing House 26:16-18, 30 F '42

AIR raids and building

All buildings vulnerable to direct bomb hits. H. M. Prince. il Eng N 127:906 D 25 '41

Bomb damage to industrial plants. C. H. S. Tupholme. Chem & Eng N 20:896-8 Jl 25 '42

Bomb tests of materials and structures; developing designs for air-raid shelters. il Eng N 128:185-7 Ja 29 '42

Bombs and bombing. il diags Power Pl Eng 46:60-2 N '42

British emergency buildings made from precast concrete. Eng N 128:988 Je 18 '42

British factories use glass despite blackouts. C. H. Crane. Eng N 128:451 Mr 19 '42

British find substation equipment vulnerable. J. N. Waite. Elec W 118:453 Ag 8 '42

Buildings damaged by air raids and notes relative to reconstruction. Am Concrete Inst J 13:189-92 N '41

California schools rated for air raid safety. D. C. Willett. Eng N 128:146 Ja 22 '42

Camoufleurs show the architects how to avoid errors of the past. il Fortune 25:82-3 Mr '42

Civilian defense; building protection. il diags plans Arch Forum 76:26-43 Ja '42

Civilian defense; safe housing. diags plans Arch Forum 76:65 Ja '42

Design of protective structures and the defence of industry. J. F. Baker. Inst Mech Eng J & Proc 147:Proc 50-1 Ap '42; Same. Inst E E J 89 pt 1:172-3 Ap '42

Effect of aerial warfare on steel-framed buildings. V. G. Iden. il Steel 111:66-8+ S 21 '42

Effect of high explosives on structures. J. D. Bernal. Inst Mech Eng J & Proc 147:Proc 49-50 Ap '42; Same. Inst E E J 89 pt 1:171-2 Ap '42

Effects of blast on buildings. A. Haertlein. il Boston Soc C E J 29:71-81 Ap '42

Factory construction: A.R.P. design; with time-saver standards. diags Arch Rec 91: 79-80 Ja '42

How reinforced concrete structures resist air raids. Concrete 50:8 N '42

How to minimize damage from bombs. il Factory Management 100:106-7 Ja '42

Industrial plant buildings; bombs and British buildings. C. H. Crane. il Factory Management 100:B61+ Ap '42

Poor workmanship, not bombs, causes many building failures. Brick & Clay Rec 100:36 Mr '42

Proneness to damage of plant through enemy action. H. Gutteridge. Inst Mech Eng J & Proc 147:Proc 99-104 Je '42; Same cond. Engineering 153:204-5, 227 Mr 13-20 '42; Same cond. Engineer 173:213-14 Mr 6 '42; Abstract. Am Water Works Assn J 34:1569-70 O '42; Excerpt. Heating-Piping 14:sup 137 N '42; Discussion. Inst Mech Eng J & Proc 147:Proc 104-9 Je '42; Engineering 153:214-15 Mr 13 '42

Protection aspects of civilian defense. S. B. Smith. il Civil Eng 12:269-71 My '42

Railways and air raids; railway buildings. il Engineer 173:361-4 My 1 '42

Reinforced-concrete structures in air attack. Engineering 152:328 O 24 '41

Some physical effects of bombing. H. G. Baity. diags Am Water Works Assn J 34: 513-22 Ap '42

Structural-framed buildings resist shock of heaviest air-raid bombs. Concrete 49:3 D '41

Structural protection against incendiary bombs. Franklin Inst J 233:381-2 Ap '42

Survey of building safety urged for designating air-raid safety zones. Eng N 128:218 F 5 '42

Value of modern building methods shown by bombing of England. Eng N 128:329 F 26 '42

AIR receivers

Additional receivers increase compressed-air capacity. C. A. Armstrong. il diags Power 86:503-5 Jl '42

Tank gives warning before explosion. il Locomotive 44:83+ Jl '42

AIR reduction company

Air Reduction's varied work. Barron's 22:19 S 21 '42

Annual report. Comm & Fin Chr 155:1401 Ap 6 '42

Another look. Mag of Wall St 70:290 Je 27 '42

Tax position. H. Lawrence. Barron's 22:5 Mr 23 '42

AIR sampling

Analysis of atmospheric samples of explosive chemicals. F. H. Goldman. J Ind Hygiene 24:121-2 My '42

AIR schools. See Aeronautic schools

AIR transportation. See Aeronautics, Commercial; Air lines; Air travel; Airplanes, Freight

AIR travel

Air travel by employees. Management R 30: 461-3 D '41

Capacity of air-carrier terminals; considerations involved in location and arrangement. A. F. Bonnalie. bibliog plans Mech Eng 64:377-83 My '42

Some medical problems encountered in modern air travel. J. W. Heim. J Ind Hygiene 24:109-15 My '42

See also

Air lines
Airplanes
Airways
Aviation

AIR turbines

Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46: 64-85 Mr '42

AIRBRUSH

Magic of photoretouching by means of air brush. J. F. Nesbitt. il diag Comp Air M 47:6739-40 My '42

Manual of airbrush technique. J. C. Tobias. 164p $3 Am. photographic pub. co, 353 Newbury st, Boston '41

AIRCRAFT

See also

Airplanes
Airships
Autogiros
Flying boats
Gliders
Helicopters
Ornithopters
Radio apparatus on aircraft
Seaplanes

Patents

Trend of invention. Published in monthly numbers of Aero digest

AIRCRAFT damage insurance. See Insurance, Aircraft damage

AIRCRAFT guns. See Guns, Aircraft

AIRCRAFT parts development corporation

Organized. Comm & Fin Chr 156:1412 O 19 '42

AIRCRAFT parts manufacturing association

Organizing little plants for big production. J. Frost. il Aviation 41:108+ F '42

AIRCRAFT steel. See Steel, Aircraft

AIRCRAFT war production council

Aircraft council; production group set up by southern California manufacturers. Business Week p35 Ap 11 '42

Aircraft industry is doing its job. D. W. Douglas. il Automotive & Aviation Ind 87: 97-100, 102+ O 1 '42

AIRCRAFT war production council—*Continued*

Production aided by interchange of plant personnel and facilities. R. W. Millar. Aero Digest 41:78+ Ag '42

AIRCRAFT war production council, East coast

Aircrafters unite; eastern concerns form council. Business Week p74 O 10 '42

AIRFOILS

Geometric airfoil characteristics. C. F. Marshner. Aviation 41:73-4 Mr '42

Simplified two-dimensional theory of thin airfoils. H. J. Stewart. J Aeronautical Sci 9:452-6 O '42

Some simplified methods in airfoil theory. M. A. Biot. bibliog J Aeronautical Sci 9:185-90 Mr '42

See also

Airplane propellers

Airplane wings

AIRPLANE accessories industry

Manufacturers of parts well organized for wartime operation. L. Cameron. Aero Digest 40:82+ Ja '42

See also

Bendix aviation corporation

Advertising

How Adel bucked big time competition selling to the aircraft industry. Sales Management 50:36-7 Ap 20 '42

Directories

Directory of aviation suppliers. Aviation 41: 225-76 F '42

Index to manufacturers of aircraft and engine accessories. Aero Digest 40:140+ Mr '42

AIRPLANE carriers

Aircraft carrier. R. A. Winston. 89p $2 Harper '42

More aircraft carriers needed in the Pacific. J. A. Ward. Aero Digest 40:74 F '42

Sea nests for war birds. W. L. Robinson. il Sci Am 167:52-4+ Ag '42

Tactics and the aircraft carrier. H. W. Richmond. Engineering 154:143-4 Ag 21 '42

AIRPLANE detectors. See Airplanes—Detection

AIRPLANE engines

Aero-engine practice; dealing with installation, location of faults, top overhaul, rating and performance testing. E. Malloy, ed. 132p $2.50 Chemical pub. co. '41

Aero engineer's manual. P. H. Simpson. 125p $2.50 Chemical pub. co. '41

Aircraft engine maintenance. J. H. Suddeth. 374p $2.75 Wiley '42

Aircraft-engine sessions; S A E aircraft production meeting. S A E J 49:sup16-18+ D '41

Aircraft-engine sessions; SAE annual meeting. S A E J 50:sup56-8 F '42

Aircraft-engine sessions, SAE National aeronautic meeting. S A E J 50:sup23, 33-5 Ap '42

Aircraft handbook. F. H. Colvin. 5th ed 784p $5 McGraw-Hill '42

Aircraft powerplant manual. G. B. Manly. 759p $4 Drake '42

Allison engines in current production. il diags Aero Digest 40:184 Je '42

American aircraft engines for 1942; illustrations. Aviation 41:184, 187-8, 191-2 F '42

B.M.W. 801 engine; abstract. Roy Aeronautical Soc J 46:sup289-90 Ag '42

Bomber engines by Buick. il Aero Digest 40: 105-6 My '42

Bristol Hercules aero-engine. il Engineer 172:398-400 D 5 '41; Engineering 152:466-7, 470 D 12 '41

Current problems in light airplane engines. R. S. White. bibliog S A E J 50:141-59 Ap '42

Directory of engine manufacturers; personnel, distributors and authorized service stations. Aviation 41:202, 218+ F '42

Does propeller weight limit aircraft engine size? K. B. Gilmore and A. V. Cleaver. il Automotive Ind 85:30-1+ N 15 '41

Engines. E. Molloy and E. W. Knott, eds. 3v 124p, 132p, 132p ea $2.50 Chemical pub. co. '41

Engines, small and large; detailed sketches, Lycoming 0-435; Merlin XX. Aero Digest 40:152 My '42

Flight; aircraft engines, a general survey of fundamentals of aviation. R. F. Kuns and others. 363p $3.25 Am. technical soc, Chicago '41

German BMW-801A engine. Aero Digest 41: 217 Ag '42

Horsepower is war power; how American industry is powering our military machine. C. F. Kettering. il Sci Am 167:4-8 Jl '42

Merlin XX. il Aviation 41:207+ Je '42

Metallurgy of aircraft engines; German report on captured airplanes. Iron Age 148: 33-40 D 25 '41

Possible aeronautical developments; gas turbine engine, rocket planes; abstract. J. C. Hunsaker. Science 95:sup10 Je 5 '42

Practical thermodynamics for aircraft engines. L. A. Thorpe. 236p pa $3.50 Aviation press, San Francisco '41

Pratt & Whitney twin wasp spawns the Focke-Wulf 190 motor. il Iron Age 150:54 S 17 '42

Principles of aircraft engines. B. A. Shields. 378p $1.88 McGraw-Hill '42

Rolls-Royce Vulture engine. M. W. Bourdon. il Automotive & Aviation Ind 87:23 Jl 15 '42

Servicing Canadian Kinners. C. Sander. il Aviation 40:75+ D '41

Theory of flight and aircraft engines; air pilot training. B. A. Shields. 2d ed 377p $2.75 McGraw-Hill '42

Training engineers for the aircraft engine industry; government sponsored course at University of Kentucky. A. J. Meyer. il Automotive Ind 86:20-2+ Ja 15 '42

Vibration characteristics of three- and four-blade propellers for high-output engines. R. M. Guerke. S A E J 49:544-52 D '41

Air filters

Air filters for airplane engine protection. W. K. Gregory. diags Aviation 40:115, 206, 208 D '41; Same. Mech Eng 64:205-7 Mr '42

Eliminating dust and dirt from the air intake. diags Aero Digest 41:160+ Ag '42

Intake air filters; abstract. Roy Aeronautical Soc J 46:234-5 Jl '42

Air supply

Air hazard created by foreign matter in induction system. Civil Aero J 3:7+ Ja 1 '42

Aircraft carburetor airscoops and their effect on fuel-air metering in flight. F. C. Mock. il diags S A E J 50:102-19; Discussion. 119-24 Mr '42

Bearings

Concentricity checking machine for airplane rocker arm bearings. J. R. Drummond. il diags Instruments 15:104-5 Ap '42

Silver for bearings. A. Bregman. il diags Iron Age 150:65-7 Ag 13; 41-5 Ag 20 '42

Control

Boost controls for aero-engines; abstract. D. Ramsay. Aeronautical Eng R 1:47 Ag '42

Cooling

Aircraft engine installation. E. C. Sulzman. diags Aeronautical Eng R 1:5-7 S '42

Cooling characteristics of submerged light aircraft engines. H. H. Ellerbrock, jr. il S A E J 50:7-14 Ja '42

Fabricated stainless steel tubing; airplane engine cooling system. H. S. Card. il Welding J 21:625 S '42

Fabricating alloy steel tubing. il Iron Age 150:62F Jl 30 '42

Design

Aircraft engine design. J. Liston. 486p $4.50 McGraw-Hill '42

Aircraft engine installation. E. C. Sulzman. diags Aeronautical Eng R 1:5-7, 9-11 S '42

AIRPLANE engines—Design—*Continued*

Aircraft speed dependent upon engine characteristics. W. Stepniewski. Aero Digest 40: 214, 216, 218+ Mr '42
Axial engine; survey of recent designs. C. Campbell. il diags Automobile Eng 31:427-33 D '41
BMW 801A aircraft engine. il diags Automotive & Aviation Ind 87:20-4 O 15 '42 (to be cont)
Britain's Rolls-Royce Merlin XX engine. M. W. Bourdon. il Automotive & Aviation Ind 86:36-7 My 1 '42
Design details of the Mitsubishi Kinsei engine. W. G. Ovens. il Aviation 41:110-17+ Ag '42
Design features of the Junkers 211B aircraft engine. S. Oldberg and T. M. Ball. il diags S A E J 50:465-83 N '42; Abstract. Automotive & Aviation Ind 86:18-21 Ap 1; 40-6+ Ap 15 '42
Engineering liaison and production control. D. U. Kudlich. il diags S A E J 50:169-76 My '42
Engineers' war; eight urgent mechanical projects in nine table-cloth drawings. A. Taub. Fortune 24:116-18, 126, 129 D '41
German crankshaft design; Junkers Jumo 211-B aircraft engine. diag Automobile Eng 32:402 O '42
Light plane engines and their fuel problems. C. T. Doman. il diags S A E J 50:188-95 My '42
Mitsubishi Kinsei engine. W. G. Ovens. il Automotive & Aviation Ind 87:22-5+ Jl 1 '42; Abstract. Iron Age 150:61 Jl 2 '42
One man: one wrench: one hour; simplified engine design for easier maintenance of military planes. W. B. Stout. il diags Aero Digest 40:67-8+ Je '42
Roesch axial engine. G. Roesch. diags Automobile Eng 32:120-2 Mr '42
Rolls-Royce Merlin aero-engine. il diags Engineer 173:178-80, 198-201 F 27-Mr 6 '42; Abstract. Metal Prog 41:838+ Je '42
Rolls-Royce Merlin XX aero engine. il Engineering 153:184-6, 190 Mr 6 '42

Diving effect

Effect of a high speed dive on the aircraft power plant; tr. by L. J. Baker. il diags Roy Aeronautical Soc J 46:93-106 Ap '42

Efficiency

Correction of engine output to standard conditions. D. S. Hersey. diags J Aeronautical Sci 9:355-71 Ag '42; Excerpts. Automotive & Aviation Ind 86:28-34 Ap 15 '42
Study on the polytropic expansion coefficient in an internal combustion engine; abstract. M. Serruys. Aeronautical Eng R 1:95 Ag '42

Exhaust

Aircraft engine installation. E. C. Sulzman. Aeronautical Eng R 1:11 S '42
Service problems of aircraft engine exhaust systems. J. C. Zippwald. il Aviation 41:175-6, 179-80 Je '42

Failures

Current problems in light airplane engines. R. S. White. S A E J 50:142-7 Ap '42

Fuel

Alkylation; oil industry's contribution to war requirements of aviation fuel. G. B. Murphy. flow diag bibliog il Nat Pet N 34:R4, R6, R8 Ja 7 '42
All-out aviation gas plan includes pooling of stocks, processes, patents, storage. Nat Pet N 33:19 D 17 '41
Ample aviation gasoline for Soviets. For Comm W 7:31-2 Je 27 '42
Aviation engineer paints vista of large new oil refineries; quotations from Victory through air power, by A. P. de Seversky. Nat Pet N 34 pt 2:R250+ Ag 26 '42
Aviation gas production continues during conversion of refineries. Nat Pet N 34 pt 2: R249 Ag 26 '42
Aviation gasoline manufacture put on wartime basis. Civil Aero J 3:12+ Ja 1 '42
Base stock for 100-octane is available from many sources. W. L. Nelson. diag Oil & Gas J 40:63-4 D 25 '41
Better plane fuel. Business Week p62-4 Ap 25 '42
Boon to plane gas; Isomate process conserves vital synthetics used in making 100-octane fuel. Business Week p53-4 D 13 '41
British specifications revised for aviation fuel base stocks; other products. Nat Pet N 34:R102, R104 Ap 1 '42
Butane supply ample for 100-octane and rubber. G. G. Oberfell. Nat Pet N 34:17 Je 17 '42
Cargo plane plans involve huge aviation fuel demand. Nat Pet N 34:28 Ag 19 '42
Catalytic isomerization will put nation far in lead in aviation gasoline supply. G. B. Murphy. Nat Pet N 33:R401-2 D 24 '41
Crude naphtha stabilizer performance. J. Q. McGiffin. bibliog il diags Am Inst Chem Eng Trans 38:761-88 Ag '42; Same. Nat Pet N 34 pt 2:R277-80, R282, R284-5 Ag 26 '42; Discussion. Am Inst Chem Eng Trans 38: 789-90 Ag '42
Crude selection important in 100-octane fuel production; oils that contain high-octane naphtha, by fields. W. L. Nelson. bibliog Oil & Gas J 40:14-15 Ja 1 '42
Diagrammatic flow sheet illustrating processes related to production of aviation gasoline. Nat Pet N 34:R3 Ja 7 '42
Flow charts for the synthesis of aviation gasoline. Oil & Gas J 40:95, 98, 103, 106, 111 Mr 26 '42
Fuel and oil systems. E. Molloy and E. W. Knott, eds. 124p $2.50 Chemical pub. co. '41
Gasoline miracles; higher octane aviation fuels. S. J. French. Sci Am 166:167-70 Ap '42
Half-million tons of metals needed in 100-octane plans. W. T. Ziegenhain. il Oil & Gas J 40:20-1 Mr 12 '42
Higher butane recovery urged. R. K. Davis. Oil & Gas J 40:29 Ja 15 '42
Isolation of hydrocarbon stocks for 100-octane aviation fuel. W. L. Nelson. diags Oil & Gas J 40:38-9 Ja 8 '42
Light plane engines and their fuel problems. C. T. Doman. il diags S A E J 50:188-95 My '42
Mobilizing petroleum hydrocarbons. G. F. Fitzgerald. bibliog il diag Chem & Met Eng 49:83-7 Mr '42
Modern motor fuels. G. Egloff. il diags J Chem Educ 18:582-9 D '41; Excerpt (Trend in aviation gasoline processes toward fuels of fewer compounds). Nat Pet N 34:R120-2+ Ap 15 '42
More alkylate; development of process for use of HF for airplane fuel. Business Week p65-6 O 24 '42
New contracts will increase 100-octane 35,460 bbl. H. D. Ralph. Oil & Gas J 40:20 Ja 22 '42
New process makes iso-butane supply for aviation gas. Nat Pet N 34:16 My 27 '42
100-octane aviation gasoline; abstract. W. W. Gary. Nat Pet N 34:R67-8 Mr 4 '42
100-octane gas supply boosted with butadiene by-products. flow diag Nat Pet N 34 pt 2: R248 Ag 26 '42
100-octane plans affect operations of many branches. Nat Pet N 33:9+ D 17 '41
Performance value of high-octane aviation gasolines. G. A. C. Leaver. Oil & Gas J 40:88, 90+ Mr 26 '42
Plan is outlined to set up output of 100-octane gas. Civil Aero J 2:321+ D 15 '41
Pooling of aviation-fuel facilities is authorized. Oil & Gas J 40:22 D 18 '41
Proposed method of test for potential gum in aviation gasoline. diags Am Soc T M Proc 41:351-5 '41
See supply of aviation gasoline enlarged through hydrofluoric acid alkylation. diag Nat Pet N 34:R131-2 Ap 29 '42
Shell isomerization process for producing isobutane. L. J. Coulthurst. flow sheet Nat Pet N 33:R403-4+ D 24 '41; Same. Pet Eng 13:113, 116+ Ja '42
SPAB approval speeds aviation gas program. Civil Aero J 3:24 Ja 15 '42

AIRPLANE engines—Fuel—*Continued*

Twenty per cent of Texas oil labeled aviation base. Oil & Gas J 40:26 Ja 15 '42

Twice as many refineries to be producing aviation gasoline by this time next year. Oil & Gas J 41:71-2 S 10 '42

U.S.-owned plants recommended for making aero gas. Civil Aero J 3:53 F 15 '42

Use of petroleum products in aircraft; abstract. F. D. Klein. Oil & Gas J 41:16 O 29 '42

War gasoline sold to public contributes to aviation fuel. R. H. Colley. Sci Am 166:288 Je '42

Fuel consumption

Fuel consumption from the airline's viewpoint. M. G. Beard. S A E J 50:484-91 N '42

Fuel feeding

Aircraft carburetor airscoops and their effect on fuel-air metering in flight. F. C. Mock. il diags S A E J 50:102-19; Discussion. 119-24 Mr '42

Aircraft engine installation. E. C. Sulzman. diags Aeronautical Eng R 1:9-11 S '42

Carburettor production; specialised methods as applied to aircraft components. il diag Automobile Eng 32:218-24 Je '42

Flow bench testing of Stromberg injection carburetors. F. C. Mock. il Instruments 15: 316, 318 Ag '42

Fuel feed at high altitude. W. H. Curtis and R. R. Curtis. bibliog il diags S A E J 50: 321-37 Ag '42

Horse-power and altitude; a new formula based on experimental data; abstract. K. Tanaka and others. Automobile Eng 32:420 O '42

Vapor lock. H. Alfaro. diag Aeronautical Eng R 1:25 Ag '42

See also
Carbureters

Gearing

Aircraft gear production. J. Geschelin. il diags Automotive & Aviation Ind 86:20-7+ F 15 '42

Design and manufacture of aircraft engine gearing. P. W. Brown and E. V. Farrar. Mach 49:219-21 N '42

Durability of gears. H. D. Mansion. diags Automobile Eng 32:351-6 S '42

Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

New process speeds gear production. R. S. Drummond. diags Aero Digest 40:170 F '42

Idling

Current problems in light airplane engines. R. S. White. S A E J 50:148-50 Ap '42

Ignition devices

Heli-coil spark plug bushing. H. Caminez. il diags Aviation 41:80-1+ Mr '42

Ignition shielding; abstracts. D. W. Randolph. Automotive & Aviation Ind 86:24-5 Ap 1 '42; Aviation 41:177 My '42

Locating ignition trouble. H. N. Walker. il diags Aviation 41:211-12 O '42

Magnetos; dealing with the maintenance and repair of the Scintilla, Rotax, and the British Thomson-Houston types of magnetos. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub. co. '41

Inspection

Aero-engines, inspection of, during manufacture, overhaul and test (D licence). A. N. Barrett. 8th ed 140p $1.40 Pitman '41

Lubrication

Aircraft engine installation. E. C. Sulzman. diags Aeronautical Eng R 1:6-7, 9 S '42

Aircraft lubricating oils for the war effort. C. M. Larson. il Nat Pet N 34 pt2:R223-4, R226, R228 Jl 29 '42

Altitude performance of oiling systems; abstract. J. Dolza. Aviation 41:106-7 Jl '42

Co-operative engine wear studies; abstract. F. L. Miller and others. Nat Pet N 34:R45+ F 4 '42

Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

Need for aircraft manufacturers to follow engine installation specifications; engine oil pressure difficulty; abstract. H. C. Karcher. Aviation 41:107+ Jl '42

Oil burner heats plane motors. Heat & Ven 39:21 Ap '42

Oil corrosion tester; a simplified apparatus for testing corrodibility of bearings and corrosiveness of lubricants. N. MacCoull, E. A. Ryder and A. C. Scholp. il diags S A E J 50:338-45 Ag '42

Requirements for aircraft oil servicing equipment for the war effort; abstract. C. W. McAllister. Oil & Gas J 41:40+ O 29 '42

Use of petroleum products in aircraft; abstract. F. D. Klein. Oil & Gas J 41:16 O 29 '42

Manifolds

Fabricating stainless exhaust manifolds. H. A. Campbell. Metals & Alloys 15:980 Je '42

Flow production of aircraft manifolds. E. A. Moore. il plan Am Mach 86:959-69 S 3 '42

Rust-proof coatings for manifolds; porcelain enamel coating. R. H. Wendt. il Aero Digest 41:162 O '42

Shortcuts in fabricating stainless manifolds. il Steel 111:126-7 Jl 13 '42

Manufacture

Air control at Ford aircraft engine plant. Business Week p50 Mr 21 '42

Aircraft engine and metal finishes. M. A. Coler. 128p bibliog(p123-4) $1.50 Pitman '42

Aircraft engine crankshafts by the thousands; Ohio crankshaft co. il Steel 110:62-4 Je 22 '42

Aircraft engine production. il Steel 111:62+ Jl 20 '42

Aircraft engines by Buick. il diags Am Mach 86:394-403 Ap 30 '42

Aircraft engines get new heads; aluminum forgings replace castings. A. Klemin. il Sci Am 167:134 S '42

Airplane engine plant. il diags plans Arch Forum 76:150-5 Mr '42

Allison route sheets in graphic form. il Automotive Ind 85:28 D 15 '41

Allison set for peak production; with layout. il diags Am Mach 86:165-77 Mr 5 '42

American machine tools have big role producing British single sleeve valve aircraft engines. il Automotive & Aviation Ind 86: 18-22+ Mr 1 '42

Automatic metal spraying; equipment applies protective finish for aircraft cylinders. il Steel 110:92+ Mr 9 '42

Automatic tooling speeds production in the new Wright aero plant. H. E. Linsley. il Mach 48:109-18 F '42

Bomber engines by Buick; illustrations. Automotive & Aviation Ind 86:38-9 F 15 '42

Buick division plant for manufacture of army plane engines; heating, ventilation, and air conditioned test cells. G. S. Whittaker. il diags Heat & Ven 39:25-9 Jl '42

Buick factory assembles army aircraft engines; utility supplies power with arrangements for absorbing surplus power generated by engines on test. R. E. Turner. il Power Pl Eng 46:77-81 Jl '42

Buick makes Pratt and Whitney engines; illustrations with text. Iron Age 150:42-5 Jl 9 '42

Buick now manufactures bomber engines. C. O. Herb. il Mach 48:160-6 Jl '42

Buick's warplane engine plant. J. Geschelin. il Automotive & Aviation Ind 86:20-7+ Je 1 '42

Crankshafts for the Wright Cyclone; Ohio crankshaft company. J. Geschelin. il Automotive & Aviation Ind 86:8-15 Mr 1 '42

Cylinder block construction; Mercedes-Benz DB-601A aircraft engine. Automobile Eng 31:412 N '41

Deep finned airplane cylinder heads made on production line. E. Bremer. il Foundry 70: 74-7+ S; 80-2+ O '42

Developments in Ford foundries. A. H. Allen. il Foundry 70:92, 94+ Jl '42

AIRPLANE engines—Manufacture—*Continued*

Die-casting aluminum aircraft cylinder heads. il diag Iron Age 148:63 N 20 '41

Drilling square and hexagon holes; Watts method for aircraft engine and other machine parts. O. K. Parmiter. il Iron Age 150:54-5 S 10 '42

Drills for hardened steel solve an aircraft production problem. F. G. Gepfert. il Mach 48:215-18 Jl '42

Engineering liaison and production control. D. U. Kudlich. il diags S A E J 50:169-76 My '42; Excerpts. Automotive Ind 85:21-3 N 15 '41

Fixtures for checking aircraft engine castings. H. Chase. il Am Mach 86:127-30 F 19 '42

Ford magnesium alloy foundry. E. F. Cone. il Metals & Alloys 15:396-402 Mr '42

Ford motor company air conditions its new Pratt & Whitney engine plant. G. McNamara. il diags plan Heat & Ven 39:58-63 Ja '42

Forged cylinder head developed by Wright. il Aviation 41:117+ Je '42

Forged cylinder heads increase power of Cyclone engine. H. E. Linsley. il Aero Digest 40:141-2 Je '42

Foundry practice in aircraft engine manufacturing. H. G. Lamker. il Aero Digest 40:221-2+ Mr '42

From automobile to airplane engines; Cadillac motor car division of General motors corp. il Steel 110:84 Ap 13 '42

How Packard builds Rolls-Royce aircraft engines. J. Geschelin. il Automotive & Aviation Ind 86:20-5 My 1 '42

Hydraulic control speeds milling of aircraft pistons. W. C. Oberem. il diags Product Eng 13:507-10 S '42

Jacobs jumps into big league. J. A. Harris. il Aviation 41:94-6 F '42

Laboratory control for Ranger engines. C. B. F. Macauley. il Aviation 40:108-9, 190+ D '41

Machining oil ring forgings. il Aviation 41:125, 128, 131 S '42

Mass production for the aircraft-engine industry; Greenlee automatic transfer machines; Wright aeronautical corporation. H. E. Linsley. il diags Mech Eng 64:100-5 F '42

Mass production methods for building Wright Cyclones. il Aeronautical Eng R 1:13-15, 17 Ag '42

Material handling at Buick. H. C. Chase. il Aviation 41:148-9, 151, 309 Jl '42

Menasco aids air corps training; new plant produces low-horsepower air-cooled engines. J. E. Babcock. il Am Mach 86:20-5 Ja 8 '42

Navy E pennant to Pratt & Whitney. il Aviation 41:133-4 My '42

Navy orders powerful liquid-cooled engine. Automotive & Aviation Ind 86:49 Je 15 '42

New drill cuts production time. F. G. Gepfert. il Aviation 41:130 Ag '42

New plants of 1941; airplane engines. il Factory Management 100:B56-B58 Ap '42

New technique in aircraft-engine building. W. R. Hodge. S A E J 50:sup36 S '42

Nitriding an aircraft engine part. G. E. Stedman. il Metals & Alloys 16:420-3 S '42

Packard's Detroit plant for production of Rolls-Royce aircraft motors. il diag plans Arch Forum 75:426-31 D '41

Polishing brush eliminates stress concentration points; abstracts. R. O. Peterson. il Sci Am 167:107-8 S '42; Iron Age 150:54 O 8 '42

Precision machining operations on the Cyclone 14 crankshaft. J. F. McCarthy. il plans Aero Digest 39:198, 201-2+ D '41

Production metallizing; aluminum alloy airplane engine parts. H. E. Linsley. il Aero Digest 40:154, 159+ Ja '42

Production miracle wrought by Allison in three years. il Steel 109:40-1+ D 15; 42-3 D 29 '41

Retooled factory speeds output of aircraft and marine engines; Packard motor car company. il Am Mach 86:602-4 Je 11 '42

Roller-line assembly; Aircooled motors corporation. il Aviation 41:78-9+ Ja '42

Rolls Royce cylinder liners cut from seamless steel tubing. il Aviation 41:155, 157, 159 Jl '42

Rolls-Royce Merlin aero-engine. il diags Engineer 173:198-201 Mr 6 '42

Rolls-Royce Merlin airplane engine; Packard production. Steel 109:42-4 N 17 '41

Tool plant converted to aircraft parts manufacture. G. E. Stedman. il Steel 110:62-4, 66 Ap 27 '42

Tools sub for skill; Jacobs aircraft engine co. makers of aircraft engines devise machines enabling green hands to do work of expert mechanics. il Business Week p48-50 N 15 '41

Training operators to handle war production work; Woodworth precision airplane engine parts. G. E. Stedman. il Steel 110:64-6, 68 Je 1 '42

Wright-Aero revolutionizes engine production. P. W. Brown. il Mach 48:141-8 Jl '42

Wright ready to power bombers. J. Geschelin. il Automotive & Aviation Ind 86:22-9+ F 1 '42

Models

Midget engine for gasoline-powered model planes. A. Klemin. il Sci Am 166:37 Ja '42

Mounting

Vibration control by means of flexible mountings. L. Wallerstein, jr. il diags Product Eng 13:62-7 F '42

Protection

See also
Airplane engines—
Air filters

Repair

Limiting factors of overhaul periods for aircraft engines. M. Whitlock. il S A E J 50:499-508 N '42; Excerpts. Automotive & Aviation Ind 86:56 F 15 '42

One man: one wrench: one hour; simplified engine design for easier maintenance of military planes. W. B. Stout. il diags Aero Digest 40:67-8+ Je '42

Service problems of aircraft engine exhaust systems. J. C. Zippwald. il Aviation 41:175-6, 179-80 Je '42

Wright engine service school. il Aero Digest 40:90, 93 Ap '42

Specifications

American aircraft engines; tabulations. Automotive & Aviation Ind 86:88-9 Mr 15 '42

American and foreign aircraft engine specifications; tabulation. Aviation 41:213-16 F '42

Standards

42 SAE aircraft-engine standards approved by Aeronautics division. S A E J 50:sup26-7 Ja '42

Starting

Starters and generators. E. Molloy and E. W. Knott, eds. 124p $2.50 Chemical pub. co. '41

Superchargers

BMW 801A aircraft engine. il diags Automotive & Aviation Ind 87:23 O 15 '42

Correction of engine output to standard conditions. D. S. Hersey. diags J Aeronautical Sci 9:355-71 Ag '42; Excerpts. Automotive & Aviation Ind 86:28-34 Ap 15 '42

Effect of speed on boost pressure in the case of engines fitted with centrifugal superchargers operating at constant gear ratio; abstract. A. Kortum. Roy Aeronautical Soc J 46:sup294 Ag '42

Exhaust turbo superchargers; abstract. W. Von der Null. Automobile Eng 32:318 Ag '42

General electric co.; air conditioned blackout factory for manufacturing aircraft engine superchargers. il Heat & Ven 38:45-7 D '41

Increasing bulk and horsepower of radial warplane engines prove worth of propeller cuffs and superchargers. il diag Steel 111:58, 60 O 12 '42

Superchargers for aviation. S. A. Moss. 103p $1 Nat. aeronautics council, 37 W. 47th st, New York '42

AIRPLANE engines—Superchargers—*Continued*

Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46:64-85 Mr '42

Two-speed supercharger drives. F. M. Kincaid, jr. il diags S A E J 50:80-96 Mr '42; Excerpts. Automotive Ind 86:35 Ja 15 '42

Testing

Aero-engine testing; electrical applications. il Elec R (Lond) 130:681-5 My 29 '42

Aircraft engines breathe conditioned air while on test; abstract. C. A. Chayne. Heating-Piping 14:405 Jl '42

Allison testing facilities; illustrations. Automotive & Aviation Ind 86:38-9 My 1 '42

Altitude performance of oiling systems; abstract. J. Dolza. Aviation 41:106-7 Jl '42

Better handling scheme doubles number of engine tests. F. L. Spangler. il Steel 111:100, 103 Jl 6 '42

Buick division plant for manufacture of army plane engines; heating, ventilation, and air conditioned test cells. G. S. Whittaker. Heat & Ven 39:29 Jl '42

Buick factory assembles army aircraft engines; utility supplies power with arrangements for absorbing surplus power generated by engines on test. R. E. Turner. il Power Pl Eng 46:80-1 Jl '42

Cooling characteristics of submerged light aircraft engines. H. H. Ellerbrock, jr. il S A E J 50:7-14 Ja '42

Dynamometers for testing engine ratings. P. G. Lessman. il Aviation 41:87+ Mr '42

Engine lab on wheels. il Aviation 41:134 My '42

Fiberglas quiets roar in test cells. il Aviation 41:104-5 Ja '42

Fuel feed at high altitude. W. H. Curtis and R. R. Curtis. bibliog il diags S A E J 50:321-37 Ag '42

Glass wool ends noise problem in test cells for airplane engines. il Eng N 128:823 My 14 '42

Ground versus flight tests of airplane engine installations. J. B. Kendrick. bibliog il diags S A E J 50:241-51 Je '42; Same cond. Automotive & Aviation Ind 86:34-7 F 15 '42

How to pump power from varying-speed source into constant-frequency system; loading airplane engines while being tested. G. E. Cassidy. diag Gen Elec R 44:590-2 N '41; Same. Aviation 41:88-9 Ap '42; Abstract. Steel 111:62+ D 28 '42

Hydraulic dynamometers for aircraft engine testing. E. L. Cline. diags Aero Digest 40:245-6+ My '42

Laboratory equipment takes over for the elements; testing airplane engines for altitude performance. Refrig Eng 44:258 O '42

Magnetic crack detectors; examination of motor and aero-engine parts. il Elec R (Lond) 131:267-8 Ag 28 '42

NACA engine laboratory is world's largest. il Aviation 41:133+ S '42

Owens-Corning fiberglas corporation; sound stacks for absorption of noises set up by airplane engines and propellers while they are being tested. il J Aeronautical Sci Aeronautical R Sec 9:47 D '41

Production testing facilities of Allison division of General Motors. H. J. Buttner. il S A E J 50:444-9 O '42; Abstract. Automotive & Aviation Ind 86:23-4 Ap 1 '42

Production testing of aircraft engines; power equipment. C. A. Chayne. il plan Power Pl Eng 46:102-4 My '42

Takes over for the elements; airplane testing laboratory will reproduce different atmospheric conditions. Gen Elec R 45:592 O '42

Test saving by generating electricity with airplane engines. Sci Am 167:59 Ag '42

Wright single-cylinder test stand. il Aero Digest 41:243+ S '42

Valves

Eliminating surging in helical springs. A. M. Wahl. il diags Machine Design 14:47-51+ Ap '42

Vibration

Control of torsional vibration in radial aircraft engines by means of tuned pendulums. V. Moore. diags J Aeronautical Sci 9:229-44 My '42

Dynamic absorber and its application to multi-throw crankshafts. S. B. Bailey and C. H. Bulleid. Inst Mech Eng J & Proc 145:Proc 73-82 My '41; Discussion. 146: Proc 81-95 D '41

Optimum performance of pendulum-type torsional vibration absorber. A. H. Shieh. diags J Aeronautical Sci 9:337-40 Jl '42

AIRPLANE fabrics

Fabric attachments. A. M. Blamphin. il diags Product Eng 12:585-8, 645-8 N-D '41

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

AIRPLANE factories

A-frames aid erection of 300-ft. trusses. il Eng N 129:150-2 Jl 30 '42

Aircraft factories in Britain in old stone quarries. Science 95:sup10 Ap 17 '42

Aircraft plant and administration building. il diag Arch Rec 91:42-3 Mr '42

Airplane engine plant. il diags plans Arch Forum 76:150-5 Mr '42

Airplane plant roof truss innovations; Glenn L. Martin co. plant. il diags Eng N 127:729-33 N 20 '41

Architecture for war production; military aircraft plant in the East; aircraft parts plant in the Midwest. il diag Arch Rec 91:43-52 Je '42

Assembly plant for four-motor bombers; one of a pair of industrial giants. il Arch Forum 76:98-100 F '42

Bombers get the green light. R. A. Steinbauer. il Am Mach 28:513-20 My 28 '42

Build bombers in world's largest air-conditioned structures. il Power 86:331-2 My '42

Concrete bomb shelter is integral part of big aircraft plant. W. E. Reynolds. il Concrete 50:4-5+ N '42

Consair plant nears completion at Ft. Worth; use of Fiberglas. T. E. Lloyd. il Iron Age 148:86-7 N 27 '41

Consolidated specializes on heavy bombers. H. Ezard. il Mach 48:205-14 Jl '42

Douglas blackout plant builds for victory. R. A. Steinbauer. il Mach 48:168-76 Jl; 49:170-2 O '42

Douglas vertical assembly line. il Automotive & Aviation Ind 86:30-1 F 15 '42

Eighteen miles of sheet copper; expansion joints and flashing for plant of Republic aviation corp. il diags Sheet Metal Worker 33:23-5 Je '42

52-acre plant at San Diego fabricates parts for Consolidated bombers. il diag Arch Forum 75:423-5 D '41

Fleetwings tools up for mass production of parts. il Aero Digest 40:231-2+ Mr '42

Flexible plant for plane production; assembly building and office for Bell aircraft corp. il Eng N 129:592-4 O 22 '42

From old truck factory to $7 million aircraft plant; Vega airplane company. il Automotive Ind 85:26-7+ N 15 '41

Inland plant for bomber assembly and plane testing field. il Eng N 128:606-7 Ap 23 '42

Innovations in airplane plant design. M. M. Valentine. il Aviation 41:96-7+ My '42

Insulating blackout plants; bomber assembly plants at Fort Worth, Texas, and Tulsa, Oklahoma. H. T. Rutledge. il Sci Am 165:328-9 D '41

Mass production airplane plant built over and around existing factory; views, plans and construction outline. Arch Forum 76:373-7 Je '42

Million sq. ft. of floor; latest addition to Glenn Martin's aircraft plant. il diags plans Arch Forum 75:335-7 N '41

More factory areas dedicated to aircraft production. il Aero Digest 40:86, 90, 93 Ja '42

AIRPLANE factories—*Continued*

Moved without a shutdown; Curtiss-Wright corporation, Airplane division, Buffalo. A. Petzon and H. Rosenberg. il Factory Management 100:88-90+ S '42

New plants of 1941; airplane engines. il Factory Management 100:B56-B58 Ap '42

New plants of 1941; four-motor bombers. il Factory Management 100:B46-B49 Ap '42

Old mine converted into aircraft plant; British underground factory. il Eng N 128:796 My 7 '42

Packard's Detroit plant for production of Rolls-Royce aircraft motors. il diag plans Arch Forum 75:426-31 D '41

Scrap salvage, now a major operation at West Coast aircraft plants. R. R. Kay. il Automotive & Aviation Ind 86:17-19, 68+ Je 15 '42

Seventy percent ahead of schedule; Boeing aircraft co. plant in Seattle. il Aviation 41:113 F '42

Shop shots from aircraft plants. il Am Mach 86:770-1 Jl 23 '42

Sorensen of the Rouge; besides making engines, tanks, and guns, he is running the biggest bomber factory in the world. il Fortune 25:78-81+ Ap '42

Timber trusses with steel diagonals; aircraft plant in eastern Canada. il diag Eng N 129:589 O 22 '42

Underground aircraft factories. il Engineering 153:216 Mr 13 '42; Same abr. Mech Eng 64:484 Je '42

Underground factories; lighting and air conditioning. il Elec R (Lond) 130:333 Mr 13 '42

Underground factory; British aircraft plant located in chalk mine. il Aviation 41:76+ My '42

War-time factories in Britain; British building practice as affected by the blitz. C. H. Crane. il diag Arch Forum 76:96-7 F '42

West Coast airplane industry zooms into big production. J. Geschelin. il Automotive Ind 85:18-23+ D 15 '41; 86:32-9+ Ja 1; 24-31 Ja 15 '42

White cement floors for better light; bomber assembly plants. il Eng N 128:398-400 Mr 12 '42

Willow Run bomber plant. il Arch Rec 92:39-46 S '42

Wright aeronautical plan for salvaging materials. il Mach 48:126-7 Je '42

See also

Airplane propellers—Manufacture	Airplanes—Manufacture

Accounting

Airplane parts firm cuts accounting costs; Thompson aircraft products company. Manuf Rec 111:32+ Ag '42

Engineering progress and cost control; relationship between the respective functions of cost and weight control. E. E. Roberts. Aero Digest 40:188, 191+ My '42

Air conditioning

Air conditioning a giant aircraft plant. il Eng N 129:590-1 O 22 '42

Air control at Ford aircraft engine plant. Business Week p50 Mr 21 '42

Blackout plant speeds plane output; Douglas aircraft co. J. Nelson. Power Pl Eng 46:45 Ja '42

Bomber plant; illustrations. Heat & Ven 39:48 My '42

Curtiss-Wright corporation plant at Port Columbus. M. A. Jensen. il diags Heat & Ven 39:101-7 Ja '42

Douglas aircraft co. builds windowless factory at Long Beach. il Heat & Ven 38:36-40 D '41

Ford motor company air conditions its new Pratt & Whitney engine plant. G. McNamara. il diags plan Heat & Ven 39:58-63 Ja '42

Gas in the Douglas Aircraft factory. F. A. Herr. il Am Gas J 156:11-13 F '42

Mammoth aircraft plant completely air-conditioned; Douglas aircraft co. Mach 48:139 Ja '42

Plumbing and heating to keep them flying; Douglas aircraft company's factory at Long Beach. il Dom Eng 159:57+ Ja '42

Ventilating system supplies 700,000 cfm for spray painting bomber planes. il Heating-Piping 14:674 N '42; Same. Aero Digest 41:201+ N '42

Weather control helps speed airplane production. il Mach 48:126-8 Ag '42

Weather under control; blackout plant of the Douglas aircraft company. J. Nelson. il Nat Safety N 45:17+ F '42

World's largest paint spray enclosures; painting planes at Southwest bomber plants; air conditioning system. il Metal Finishing 40:629+ N '42; Same. Sheet Metal Worker 33:50-2 N '42; Same. Nat Safety N 46:32+ D '42

Wright aeronautical corporation's Lockland plant; designers' and owner's views on air conditioning system. G. S. Whittaker; H. E. Linsley. il Heat & Ven 38:30-7 N '41

Costs

How forging design details affect cost estimations; Douglas aircraft company. O. A. Wheelon. diags Product Eng 13:641-3 N '42

Electric equipment

Aero-engine testing; electrical applications. il Elec R (Lond) 130:681-5 My 29 '42

Heat-treated parts for Lockheed interceptors; General Electric cylindrical electric furnaces for hardening and drawing. il Aviation 41:184 Jl '42

Heat treating for airplane parts. il Elec West 89:37 Jl '42

Induction heating for aircraft production. J. W. Cable. il diag Aviation 41:127-8 Ag '42

Machine-tool driving; applications to aero-engine production. il Elec R (Lond) 131:197-201 Ag 14 '42

Selecting, installing and maintaining electric motors. O. F. Vea. il Aero Digest 40:172+ Je '42

Survey of aircraft resistance welding equipment. L. P. Wood. diags Welding J 20:775-80 N '41

Twelve-point recorder facilitates analyses of heat treatment processes. S. H. Isaacs. il Instruments 15:106 Ap '42

Employees

Adapting labor to the aviation industry; N. A. Woodworth co. is taking on the butcher, baker, and housewife. C. S. Ricker. il Aviation 41:130, 137+ Jl '42

Air Associates plant in Bendix seized after Mediation board efforts fail. Comm & Fin Chr 154:1039 N 13 '41

Back to owners. Business Week p49-50 Ja 3 '42

Bell Aircraft pact; stubborn dispute arbitrated. Business Week p48 D 20 '41

Better morale, greater output; workers' club; Lockheed aircraft corporation. O. Arbelbide. il Factory Management 100:86-9 Ja '42

Bitter-end fight; U.A.W.'s drive to enroll aircraft workers of Thompson products. Business Week p64-5 F 21 '42

Briggs aircraft training program. J. W. Busman. il Aero Digest 41:108, 112, 114+ Ag '42

Building morale in British factories; effective posters carry fight talk to production lines. J. Monsarrat. il Aviation 41:54-5+ Ja '42

Buses replace many autos at big aircraft plant; emergency transportation service established by four charter bus companies for Glenn L. Martin co. il map Transit J 86:244-7 Jl '42

Certification of army and navy welders. W. R. Allen. il Aero Digest 39:164+ D '41

Curtiss-Wright advertising solves employment problem. J. J. Foy. il Ptr Ink 201:17-18 O 2 '42

Demand growing for women in aircraft industry. R. Reeves. Civil Aero J 3:102+ Ap 15 '42

AIRPLANE factories—Employees—*Continued*

Earnings in Michigan and Buffalo (N.Y.) airframe plants, May 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:289-97 Ag '42

Earnings in midcontinent airframe plants, June 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:772-84 O '42

Earnings in the eastern airframe industry, April 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:15-24 Jl '42

8-ball drive in step with Nelson idea; labor-management campaign; Goodyear aircraft corp. il Steel 110:46-7 Ap 27 '42

Fairchild engine & airplane corp.; employment of women. J Aeronautical Sci Aeronautical R Sec 9:34 N '41

Finding and training supervisors; Murray corporation of America, Detroit. M. B. Lindquist. Factory Management 100:74-5+ Ag '42

Foreman and industrial relations. H. D. Farren and G. A. F. Brannon. Aero Digest 41:129+ S '42

400 kinds of jobs are now open; new jobs for women. F. C. Minaker. il Am Business 12:22-4 Ap '42

From the fight to the factory; production increases after air force visits. il Aviation 41:80-1+ F '42

Gas cookery in the Douglas Aircraft plants. L. S. Flint. il Am Gas J 157:21-3+ O '42

Getting people to and from the job; car sharing; Glenn L. Martin company, Baltimore. il Factory Management 100:85-7 Ag '42

Getting suggestions from workers; Vultee aircraft, inc., Inland division. il Factory Management 100:132-3 Ag '42

Group insurance as an industrial relations factor. J. M. Campbell. Aero Digest 41:130+ S '42

Healthy workers produce more. H. M. Hall. il Aviation 41:56, 196+ Ap '42

How Lockheed-Vega meets the transportation challenge. il Factory Management 100:82-3 S '42

Humm-Wadsworth temperament scale in job placement at Lockheed-Vega. F. E. Poole. Ind Med 11:260-3 Je '42

Ideas for improvements in shop practice rolling into aircraft manufacturers by thousands. Steel 111:44, 46 S 28 '42

Industrial medical problems; distribution in California. H. T. Castberg. Ind Med 11:464-6 O '42

Industrial medicine in aviation; treatment, prevention, maintenance. F. E. Poole. Ind Med 11:330-3 Jl '42

Industrial relations; the human equation in industry. A. M. Rochlen. il Aero Digest 41:138, 255-6, 297-8 S '42

Invited workers to "let down their hair"—and they did; North American Aviation. Factory Management 100:110-11 N '42

Keep 'em happy, employee relations program; Cessna aircraft, Wichita. M. Russ. il Am Business 12:16-18 O '42

Lockheed expediter system; group of especially trained men used in new production technique. H. C. Christen. il Aviation 41:122, 124+ Jl '42

Lockheed's full testing program. R. R. Irwin. Personnel J 21:103-6 S '42

Maintaining the morale of aircraft workers. il Aero Digest 40:110, 115-16, 121-2 Mr '42

Men to be loaned; Murray workers made idle by aviation changeover will be transferred to another company. Business Week p52-3 Je 20 '42

Modern homes for aircraft workers; Linda Vista, Calif. R. N. Bryan. il Comp Air M 47:6737-8 My '42

Morale-building posters. il Aero Digest 40:86, 89 Ap '42

National youth administration; contributing to the labor needs of the aircraft industry. Aeronautical Eng R 1:51 My '42

New retirement plan written by Equitable for Consolidated Aircraft. East Underw 42:11 N 21 '41

New subsidy plan solves ride-to-work problem; buses and streetcars subsidized by Lockheed. il Factory Management 100:92-4 O '42

OPA on wages; a definition of policy that curbs labor. Business Week p78-9 Jl 18 '42

Pay stabilization? conference expected to usher in regional anti-inflation pacts. Business Week p72 Je 27 '42

Personnel safety in airplane factories. il Aero Digest 40:93-4+ Mr '42

Savings plan to aid workers when defense boom ends; United aircraft corporation. Am Business 11:17+ D '41

Selective service and the aircraft worker. L. B. Hershey. Aviation 41:106 F '42

Supplying factory personnel by training within industry. C. R. Dooley. il Aero Digest 41:116, 118+ S '42

Telling the boss; report by NLRB examiner on North American Aviation. Business Week p60+ Je 6 '42

They learn by doing; subcontractor's representatives don overalls in Curtiss-Wright plants and do the jobs they will direct when they return to their own factories. E. H. Worthington. il Aviation 41:179-80+ Ag '42

Training financed; Morris Plan will supply funds for instruction, board, and room at Miami aircraft school. Business Week p70 Mr 28 '42

Training operators to handle war production work; Woodworth precision airplane engine parts. G. E. Stedman. il Steel 110:64-6, 68 Je 1 '42

USES takes over; all hiring for plane makers in southern California. Business Week p66 F 28 '42

Upgrading supervision by training. C. E. Fonda. il Aero Digest 41:219+ O '42

Visual production training at Bell aircraft corp. D. G. Forman. il Aviation 41:127-9+ Jl; 207-8+ Ag '42

Wage rates in the California airframe industry, 1941. L. M. Solomon and N. A. Tolles. Monthly Labor R 54:559-84 Mr '42

Wartime demands upon management and labor in the aircraft industry. R. R. Irwin. Ann Am Acad 224:104-9 N '42

What the men eat; survey at airplane plant reveals faulty diet habits are prevalent. Business Week p73 Ap 18 '42

When Uncle Sam says, hire twice as many workers; Boeing bomber plant. K. R. Wadleigh. il Am Business 12:26-7+ Ja '42

Woman in the shop; Vultee aircraft. G. S. Hastings. il Factory Management 100:90-1 Je '42

Women in slacks speed plane production. D. Wharton. il Aviation 41:74-5+ Je '42

Women in war work. M. H. Froelich. il Aero Digest 41:132+ S '42

Women? they're here to stay; Grumman aircraft engineering corporation. P. S. Gilbert. il Factory Management 100:96-9+ S '42

Women war-workers at Vultee aircraft. W. G. Tuttle. Personnel J 21:82-95 S '42; Abstract. Am Mach 86:998-1000 S 3 '42

Women workers in aircraft plants increase steadily. Iron Age 150:76, 78 Ag 27 '42

Written tests aid worker evaluation; Lycoming division of the Aviation corporation. il Am Mach 86:1165-7 O 15 '42

Equipment

Adaption of Castaloy fixtures to airplane production requirements. H. G. Groehn. il Aero Digest 41:197-8, 201-2, 207+ S '42

Aero equipment digest. Published in monthly numbers of Aero digest

Aircraft engines by Buick. il diags Am Mach 86:394-403 Ap 30 '42

Aircraft materials take to the air; chain-conveyor system in Glenn L. Martin's bomber factories. il Manuf Rec 111:31 Ap '42

Aircraft production number. il diags Mach 48:133-214 Jl '42

Allison set for peak production; with layout. il diags Am Mach 86:165-77 Mr 5 '42

AIRPLANE factories—Equipment—*Continued*

Aluminum can be deep drawn. C. C. Misfeldt. il diags Am Mach 86:285-9 Ap 2 '42

American machine tools have big role producing British single sleeve valve aircraft engines. il Automotive & Aviation Ind 86:18-22+ Mr 1 '42

Automatic metal spraying; equipment applies protective finish for aircraft cylinders. il Steel 110:92+ Mr 9 '42

Automatic spray painter releases 10 men; Glenn L. Martin company. il Aero Digest 41:157-8 Jl '42; Same. Metal Finishing 40:510 S '42

Automatic tooling speeds production in the new Wright aero plant. H. E. Linsley. il Mach 48:109-18 F '42

Aviation equipment. Published monthly by Haire publishing company, New York

Belt conveyor helps beat the Axis; Douglas aircraft company. il Am Mach 86:912 Ag 20 '42

Bernitz bulkhead-ring bending machine. il Engineering 153:247 Mr 27 '42

Better handling scheme doubles number of engine tests. F. L. Spangler. il Steel 111:100, 103 Jl 6 '42

Boeing among first major aircraft producers to change over to mass production methods. R. C. Hill. il Steel 110:46, 48, 50+ Je 22 '42

Bombers on line; Vultee aircraft's purchase of Consolidated. Business Week p72-3 D 6 '41

Bombers on parade; Consolidated aircraft corporation's new conception of mobile assembly. J. M. Gwinn, jr. il diags Am Mach 86:659-74 Je 25 '42; Same. Aviation 41:98-103+ Jl '42

Buick factory assembles army aircraft engines; utility supplies power with arrangements for absorbing surplus power generated by engines on test. R. E. Turner. il Power Pl Eng 46:77-81 Jl '42

Buick's warplane engine plant. J. Geschelin. il Automotive & Aviation Ind 86:20-7+ Je 1 '42

Calculations for joggle dies. E. J. Rantsch. diags Aero Digest 40:136+ F '42

Castaloy fixtures unify aircraft production; tools, fixtures and gages made from Cerrobend. C. S. Ricker. il Aviation 41:106-9 Ag '42

Chip-handling system; Wright aeronautical corp. M. E. Nevils. il Steel 111:84-5, 88 O 26 '42; Same cond. Automotive & Aviation Ind 87:11+ O 15 '42

Chobert riveting machine in aircraft production. il diags Mach 49:184-5 S '42

Compressed air speeds bomber part testing job. R. Gross. il Heating-Piping 14:495 Ag '42

Conveyor belts speed assembly of plane parts; Douglas aircraft co. il Steel 111:66 Jl 13 '42

Conveyors save space in aircraft plant; finishing operations on sheet-metal parts. F. M. Bates. il diags Am Mach 86:1244-9 O 29 '42

Curtiss propellers. J. Geschelin. il Automotive & Aviation Ind 87:20-5 Ag 15 '42

Curtiss-Wright revises degreasing equipment, doubling capacity. il Aero Digest 41:131-2 O '42

Cuts machining time; high-cycle milling machine in use at the Lockheed aircraft corp. plant. il Steel 110:76+ F 2 '42

Development of plastic drill jigs and forming dies in aircraft tooling. il Aero Digest 41:236+ Jl '42

Directory of equipment for handling parts and materials. Aero Digest 41:325-8, 330-1, 333-4 Ag '42

Douglas designed aircraft riveters; combination drilling and riveting machines. il Iron Age 150:55 Jl 9 '42

Drop hammer forming of aircraft parts. C. H. Miller and R. B. Stubbs. il Iron Age 150:59-62 Ag 27 '42

Drop-hammer methods in aircraft production. C. J. Frey and S. S. Kogut. il diags Aero Digest 40:199-200, 202, 204+ My; 147, 149-50, 152 Je; 41:140, 145-6+ Jl '42

Drop hammer technique and innovations. C. J. Frey and S. S. Kogut. il diags Aviation 41:130-3+ O '42

Duplicating templates by the X-ray process; sensitized film over fluorescent lacquer base used in North American Aviation photo-reproduction system. il Automotive & Aviation Ind 86:44-5+ My 15 '42

Expediting blueprint delivery in a large aircraft plant. il Mach 49:158-9 S '42

Fixture welding with an expansion gun. diags Am Mach 86:1123 O 1 '42

Fixtures for checking aircraft engine castings. H. Chase. il Am Mach 86:127-30 F 19 '42

Fleetwings steps up production; some new tools. il diag Aviation 41:74, 77+ Ja '42

Flying Fortress; materials handling equipment and layout. il Steel 110:73, 76+ Ja 26 '42

Forming extrusions by machine methods. C. Coe. il diags Aviation 41:108-11+ S '42

From print to part in eight hours; development of Kirksite dies for punch press work; Vega airplane company. J. Harris. il Aviation 41:70-1+ Ja '42

Glenn L. Martin company; new materials handling system. Aeronautical Eng R 1:57 My '42

Hand fixture cuts fastener slots; North American Aviation. il Am Mach 86:675 Je 25 '42

Handling equipment for speeding aircraft production. L. V. Spencer. il Aero Digest 41:197-8+ Ag '42

How Airacobras are built. O. L. Woodson. il diags plan Am Mach 85:1145-60 N 12 '41

How Packard builds Rolls-Royce aircraft engines. J. Geschelin. il Automotive & Aviation Ind 86:20-5 My 1 '42

Installation of mechanized conveyor line raises plane production. il Steel 110:88+ Ap 27 '42

Jigs and dies from cast plastics; Lockheed and Vega aircraft corporations. il Am Mach 86:731-8 Jl 9 '42

Landing gear for fighting planes. J. Bemb. il diags Am Mach 86:115-26 F 19 '42

Lockheed speeds press work. il Iron Age 149:75 My 7 '42

Low-cost blanking and piercing dies. J. R. Joachimi. il Steel 110:64-5+ Mr 2 '42

Lusty war baby; Tubing seal-cap, inc. Business Week p53-4 S 5 '42

Machine tools and aircraft. T. Berna. il Aero Digest 40:183-4, 187 F '42

Machining non-ferrous alloys. il diags Engineer 173:412-14 My 15 '42

Making production equipment last longer; Pratt & Whitney aircraft, East Hartford, Conn. il Factory Management 100:151-2+ Ag '42

Manufacturers of aircraft and engine machinery; directory of the sources of supply. Aero Digest 40:196-212 Ja '42

Mass production for the aircraft-engine industry; Greenlee automatic transfer machines; Wright aeronautical corporation. H. E. Linsley. il diags Mech Eng 64:100-5 F '42

Material handling at Buick. H. C. Chase. il Aviation 41:148-9, 151, 309 Jl '42

Menasco aids air corps training; new plant produces low-horsepower air-cooled engines. J. E. Babcock. il Am Mach 86:20-5 Ja 8 '42

Metalworking and airframes. A. A. Schwartz. il Steel 110:56-8 F 2 '42

Motor car industry's mass-production methods applied to aircraft. L. V. Spencer. il Aero Digest 41:73-4, 76, 82-8+ Jl '42

Multiple subpress dies for aircraft fabrication. G. F. Wales. il diag Iron Age 150:52-5 Ag 27 '42

New applications of contour machining speed production. H. J. Chamberland. il Aero Digest 41:168+ O '42

New developments for busy aviation executives; information tips, new products and equipment. il diags Aviation 41:155-76 Ag; 163-87 S; 166-87 O '42

New drill cuts production time. F. G. Gepfert. il Aviation 41:130 Ag '42

AIRPLANE factories—Equipment—*Continued*

New equipment speeds aluminum heat treating; Bell aircraft corp. R. L. Stevens and J. Whiteley. il Iron Age 150:40-3 O 29 '42

New miller speeds plane production. il Iron Age 149:48-9 Ja 15 '42

New overhead conveyor system in Martin bomber plant. il Automotive & Aviation Ind 86:26-7+ My 15 '42

North American Aviation X-ray photo-template duplicating system. J Aeronautical Sci Aeronautical R Sec 9:41 N '41

Northrop tools up for mass production of Vultee dive-bombers. il diags Aero Digest 39:205-6, 209 D '41

Overhead conveyor system saves thousands of man-hours; Bell aircraft. Buffalo. il Steel 110:68-9 My 11 '42

Plastic assembly jigs and fixtures. W. D. Lewis. il Iron Age 150:78-81 O 1 '42

Plastic drill jigs and forming dies for aircraft tooling. il Automotive & Aviation Ind 87:36-41+ Jl 1 '42

Plastics in aircraft tooling. il Iron Age 150:49-53 Jl 2 '42

Plumbing and heating to keep them flying; Douglas aircraft company's factory at Long Beach. il Dom Eng 159:56-7+ Ja '42

Power conveyor systems in mass production of fighting planes. il Steel 110:40, 42-3 F 2 '42

Power hammers coming back. il Iron Age 149:59 F 5 '42

Production boosters at Fleetwings. P. Anderson. il diags Aviation 41:111-12 Je '42

Production short-cuts. il Aero Digest 40:253-4+ Mr '42

Protecting plant, people and equipment; Bell aircraft corporation, Buffalo. V. Bell. il Factory Management 100:138-9 Ag '42

Punches cut their own ideas. J. Haydock. il diags Am Mach 86:815-18 Ag 6 '42

Rapid production of sheet templates. il Engineering 152:407-8 N 21 '41

Relieving tooling bottlenecks with plastics; Formrite method of making dies, jigs and fixtures. L. Weiss. il diags Aviation 41:114-21 O '42

Rolled and cast Kirksite in airplane plants; forming and blanking dies. W. W. Broughton. il diags Mach 49:139-47 O '42

Rugged and resilient; tough, oil-proof plastic materials form sturdy, efficient tools used in aircraft manufacture, and protect fragile parts. E. F. Lougee. il Mod Plastics 19:44+ Ag '42

Save metals with light substitutes, for drilling jigs in aircraft manufacture. il Steel 111:62 Ag 3 '42

Six-sided press speeds aircraft production. il Iron Age 149:52-4 F 5 '42

Small town shops handle a $2,500,000 war contract; airplane engine assembly racks, DeLand, Fla. B. O'Shea. il Am Business 12:12-13+ Je '42

Smart tooling spurs the Mustang. G. Stroh. il Am Mach 86:905-11 Ag 20 '42

Special equipment for airplane factories. R. H. Ruud. il Mach 48:123-9 My '42

Special shapes of coated abrasives speed production. il Aero Digest 41:170, 176, 178+ O '42

Speeding up deep drawing of aircraft parts; Misfeldt process, Vega airplane company. C. C. Misfeldt. il Aviation 41:64-5+ Mr '42

Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42

Standardization of small tools. W. E. Miller. il Aviation 41:152+ Jl '42

Tooling for aircraft production. il Mod Plastics 19:33-7, 104, 106+ Jl '42

Unique aircraft construction methods; Murray corp. of America. W. F. Sherman. il Iron Age 149:33-43 Je 25 '42

Vega applies cast dies; Kirksite punch-press dies for airplane parts. J. A. Harris. il Am Mach 86:15-19 Ja 8 '42

Welding jigs for nacelle subassemblies. P. Mitchell. il Am Mach 86:1114-16 O 1 '42

Wright ready to power bombers. J. Geschelin. il Automotive & Aviation Ind 86:22-9+ F 1 '42

Wright's new precision tool grinding process. il Aero Digest 41:134+ O '42

Bibliography

Aero equipment digest index: items described in Aero digest from November 1941 to April 1942. Aero Digest 40:204+ Ap '42

Aero equipment digest index; items described in the Aero equipment digest section from May 1942 to October 1942. Aero Digest 41:326+ O '42

Fires and fire protection

Fighting incendiary fires in aircraft plants. il Aero Digest 41:102+ Ag '42

Heating and ventilation

Buick division plant for manufacture of army plane engines; heating, ventilation, and air conditioned test cells. G. S. Whittaker. il diags Heat & Ven 39:25-9 Jl '42

Curtiss-Wright corporation installs complete exhaust systems. M. A. Jensen. il Heat & Ven 39:38-40 My '42

Ford's Willow Run bomber plant; heating and air conditioning. G. S. Whittaker. il Heat & Ven 39:25-33 O '42

See also

Airplane factories—
Air conditioning

Layout

Flying Fortress; materials handling equipment and layout. il Steel 110:73, 76+ Ja 26 '42

Rearranging plants and equipment; Curtiss-Wright corporation, Buffalo. A. Petzon. il Factory Management 100:90-2+ Ag '42

Lighting

Aircraft-factory lighting installation. il Engineering 153:450 Je 5 '42; Elec R (Lond) 130:668 My 22 '42

Light-reflecting concrete for factory floors. M. A. Berns. il Civil Eng 12:556-8 O '42

Lighting a giant bomber assembly plant. G. J. Taylor. il diags Elec W 118:287-9 Jl 25 '42

Modern lighting for new aircraft plant. Elec W 117:1559 My 2 '42

White cement floor successful light reflector. il Eng N 128:1037 Je 25 '42

Management

Aircraft gear production. J. Geschelin. il diags Automotive & Aviation Ind 86:20-7+ F 15 '42

Aircraft-industry salvage kinks. H. A. Knight. il Metals & Alloys 16:257-9 Ag '42

Airplane quality control; Curtiss-Wright airplane division; abstract. J. W. Dunn. Automotive Ind 85:20-1 N 15 '41

Boeing's production density system. il Automotive & Aviation Ind 87:16-19+ O 15 '42

Colored V's used to match machines and scrap metals in Wright salvage system. il Steel 110:59 My 4 '42

Condensed schedule for shop use. C. H. Brown. il Aero Digest 41:159 Ag '42

Controlling the flow of production materials; Boeing airplane company, Wichita division. W. B. Ash. il Factory Management 100:119-21+ Ag '42

Efficient aircraft print checking. E. Wald. flow chart Aviation 41:139 My '42

Efficient machine loading; Bell Aircraft engineers coordinated system of time studies and use of machine loading control board. M. Stupar. diag Aviation 41:94+ Je '42

Engineering release for mass production; punched card system; Curtiss-Wright corporation. L. N. Pizzuto. il Aviation 41:108-12 Jl '42

Facilitating production by tooling engineering. C. H. Speck. il Aero Digest 39:140, 144+ D '41

Flow production of aircraft manifolds. E. A. Moore. il plan Am Mach 86:959-69 S 3 '42

How Packard builds Rolls-Royce aircraft engines. J. Geschelin. il Automotive & Aviation Ind 86:20-5 My 1 '42

Liaison engineering. C. H. Speck. il Aero Digest 40:188, 190+ F '42

AIRPLANE factories—Management—*Continued*

Lockheed expediter system; group of especially trained men used in new production technique. H. C. Christen. il Aviation 41:122, 124+ Jl '42

Methods engineering. C. H. Speck. il Aero Digest 40:292, 295-6 Ja '42

Production aided by interchange of plant personnel and facilities. R. W. Millar. Aero Digest 41:78+ Ag '42

Production breakdown illustration. G. Tharratt. diags S A E J 50:408-16 S '42; Abstract. Automotive Ind 85:24-8+ D 15 '41

Production short cuts at aircraft plants. J. R. Custer. il Automotive & Aviation Ind 87:78-87 O 1; 26-9 O 15 '42

Relationship of identification numbers to weight and cost control. D. R. Watson. Aero Digest 41:106 Jl '42

Safe and sound, the mark of the aircraft inspector; Glenn L. Martin co. il Steel 111:70-1, 102 Ag 10 '42

Salvaging of scrap metal. il Aero Digest 41:120, 123-4 Jl '42

Salvaging scrap metals within the plant; North American aviation, Inglewood, Calif. il Factory Management 100:105-7 Ag '42

Standardized office forms help simplify production details; Lockheed aircraft corp. D. M. McKenney. il Aero Digest 41:121-2+ S '42

Stock and production control at Douglas Aircraft. flow chart il Aero Digest 41:108, 111-12, 114 Jl '42

Subcontracting from scratch; Aircraft products & equipment corporation. E. K. Gray. il Aviation 41:189+ O '42

Successful city-wide sub-contracting program; nearly all of Hagerstown's factory labor is now engaged in aircraft production. il Aero Digest 41:222 O '42

Survey of multiple shift operations. J. Foster, jr. il Aviation 41:138-9+ Jl '42

System of inventory control of aircraft materials and parts. B. F. Smith. Aero Digest 40:58, 61-2 Ap '42

V-plan saves vital metals; Wright aeronautical corporation. C. J. Wiberg and F. D. Kent. il Am Mach 86:761-3 Jl 23 '42

Work simplification can speed war production. A. H. Mogensen. il Aviation 41:116-19, 310+ Jl '42

Power

Diesel engines guard vital war production; air compressor drives; Republic aviation corp. il Diesel Power 20:203-4 Mr '42

Protection

Protection of plants. il Aero Digest 40:77-8, 81-2, 87-8 Mr '42

Records

Engineering release for mass production; punched card system; Curtiss-Wright corporation. L. N. Pizzuto. il Aviation 41:108-12 Jl '42

Stock and production control at Douglas Aircraft. flow chart il Aero Digest 41:108, 111-12, 114 Jl '42

System of inventory control of aircraft materials and parts. B. F. Smith. Aero Digest 40:58, 61-2 Ap '42

Safety measures

Get them flying! safety program, Vultee aircraft, inc. F. T. Munch. il Nat Safety N 45:20-1+ My '42

Wright plan for safety. W. J. Willcox. il Safety Eng 84:6-7, 20 Ag '42

AIRPLANE industry and trade

Aircraft industry is doing its job. D. W. Douglas. il Automotive & Aviation Ind 87:97-100, 102+ O 1 '42

Subcontractors section. il Aviation 41:167+ My; 165-7 Je; 217+ Jl; 179-80+ Ag; 189-90+ S; 189+ O; 189+ N '42

Advertising

Aircraft future as copy theme; Wright Aeronautical's 1942 advertising campaign. il Ptr Ink 200:15 Jl 24 '42

Autographed bombers; names of bond buyers inscribed on planes. il Ptr Ink 200:34 S 18 '42

Aviation advertising due for sharp rise; companies on West coast lead way. H. L. Stephen. Ptr Ink 200:17 Jl 10 '42

Directories

Aircraft manufacturers; alphabetical directory of the American aircraft and engine manufacturing companies, their executive personnel and department heads. Aero Digest 40:133-4, 139 Mr '42

Directory of aircraft and engine manufacturers; personnel and distributors; service stations. Aviation 41:195-6+ F '42

Finance

Aircraft: leading war implement. S. Altschul. Barron's 22:20 Jl 6 '42

Aircraft production and incentives. S. Altschul. Aviation 41:188+ Ag '42

Aviation's divergent trends. S. Altschul. Aviation 41:257-8+ Jl '42

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 22:18 My '42

Glenn L. Martin co.: builder of bombers. S. Altschul. Barron's 22:7 Ja 26 '42

Investment audit of Bendix Aviation. P. Dobbs. il Mag of Wall St 71:28-9+ O 17 '42

Looking up with aviation in 1941; third annual survey of the finances and revenues of aircraft manufacturers and air transportation companies in the United States. K. W. Tibbitts. Nat credit office, 2 Park av, New York '41

Profit limitations by Treasury directive; interpretation of T.D. 5000, how it controls cost plus accounting, and how it affects aviation earnings and securities. S. Altschul. Aviation 41:100+ O '42

SEC issues industry reports. Comm & Fin Chr 154:1342 D 4 '41

War forces new plans. S. Altschul. Aviation 41:153+ Ja '42

History

Wichita's 25 years in aviation manufacturing. il Aero Digest 40:81-3, 86-7 F '42

Securities

Another look at the aircraft industry. W. Gates. il Mag of Wall St 69:194-9+ N 29 '41

Aviation in a war economy. S. Altschul. Aviation 41:131, 133 F '42

Aviation's constant adjustments. S. Altschul. Aviation 41:119-20 Mr '42

Aviation's dividend prospects. S. Altschul. Aviation 41:199-200+ O '42

Bright prospect for aviation; position of leading stocks. il Mag of Wall St 69:598-601 Mr 7 '42

Five low priced aircraft stocks. H. L. Blackburn. il Mag of Wall St 69:377-9+ Ja 10 '42

News and views on investments. Barron's 22:20 Ja 19 '42

Today's no. 1 industry, the aircrafts. O. Ely. il Mag of Wall St 71:118-21 N 14 '42

War factors spur to aviation progress; position of leading stocks. il Mag of Wall St 70:547-8+ S 5 '42

Statistics

Aircraft industry; data from reports of Census of manufacturers. Automotive & Aviation Ind 86:60 Mr 15 '42

Taxation

Aviation's long tax road. S. Altschul. Aviation 41:149, 228 Ap '42

Australia

Australia's aircraft industry helping RAAF expansion. il Aero Digest 40:82, 85, 87 My '42

California

Aircraft council; production group set up by southern California manufacturers. Business Week p35 Ap 11 '42

AIRPLANE industry and trade—California—*Continued*

California manufacturers' contribution to the war. C. E. Branshaw. Aero Digest 40:74+ Ja '42

California's role in the growth of naval aviation. C. A. Blakely. Aero Digest 40:76+ Ja '42

Expediting planes; Aircraft council on West coast exchanges men, plans, materials. Business Week p22+ Jl 4 '42

Promise becomes performance. D. W. Douglas. Aero Digest 40:132-3+ Ja '42

Salute to California's aircraft industry. C. L. Olson. map Aero Digest 40:66+ Ja '42

West Coast airplane industry zooms into big production. J. Geschelin. il Automotive Ind 85:18-23+ D 15 '41; 86:32-9+ Ja 1; 24-31+ Ja 15 '42

Canada

Canada's aircraft industry. J. Montagnes. il Aviation 41:96-7+ Ag '42

Eastern states

Aircrafters unite; eastern concerns form council. Business Week p74 O 10 '42

Germany

News by commodities. For Comm W 6:16 Ap 4 '42

Great Britain

Annual economic review of the British engineering industry. A. M. de Neuman. Engineer 173:23-5 Ja 9 '42

Bristol aeroplane company, limited, 31st ordinary general meeting, Bristol. Economist 141:547 N 1 '41

Engineering outlook. Engineering 153:163-4 F 27 '42

Part plastics are playing in the British war program and our interest in American plastics program. H. Self. Mod Plastics 19:44d-44f My '42

Small aircraft results. Economist 143:426 O 3 '42

Japan

Japanese air power. E. Speyer. il Aviation 41:94-7+ S '42

Southern states

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:18-19+ Ja '42

United States

Aircraft industry and the war. A. Earl and B. S. Trynin. Ann Am Acad 222:168-72 Jl '42

Aircraft: leading war implement. S. Altschul. Barron's 22:20 Jl 6 '42

Aircraft output exceeds $5.2 billion during three years of war. Comm & Fin Chr 156:891 S 10 '42

Aircraft production and incentives. S. Altschul. Aviation 41:188+ Ag '42

Airplane companies pool resources. il Automotive & Aviation Ind 87:15+ O 15 '42

Airplane production goes to war. il Manuf Rec 111:28-9+ Je '42

Airplane production quadrupled in year. M. C. Meigs. Civil Aero J 3:12 Ja 1 '42

America can build them. G. F. Morgan. il Am Inst Banking Bul 24:5-6 Ap '42

American aircraft can win the war. O. P. Echols. il Mach 48:135-40 Jl '42

Another look at the aircraft industry. W. Gates. il Mag of Wall St 69:194-9+ N 29 '41

Automobiles, airplanes and the postwar future for individual makes. Adv & Sell 35:44 O '42

Aviation priority and allocation orders affecting airplane manufacture and maintenance. Aviation 41:182 Jl '42

Aviation's management responsibility. S. Altschul. Aviation 41:172 Je '42

Bright prospect for aviation. il Mag of Wall St 69:598-601 Mr 7 '42

Changing pattern of industry. il Adv & Sell 35:40+ Ag '42

C.P.T. excepted from ban on sale of light aircraft. Civil Aero J 3:73+ Mr 15 '42

Design for air supremacy. J. L. Atwood. Mech Eng 64:470-2 Je '42

Detroit in transition. W. F. Sherman. il Iron Age 149:92-4+ Ja 1 '42

Forum on aviation management. A. Klemin. Mech Eng 64:479-80 Je '42

Fundamentals of freedom. E. E. Wilson. Aero Digest 41:132-3 Jl '42

Horsepower for victory. H. H. Curtice. Aero Digest 41:142-3 Ag '42

Materials and labor, chief problems confronting light plane builders. D. L. Zacharias. Steel 110:44-5 Ja 19 '42

New age in the air. A. B. Wells. il Mag of Wall St 70:281-3+ Je 27 '42

1941 civil plane production sets new record. il Aviation 41:84-5 F '42

Plane makers triple production in a year. J. H. Jouett. Comm & Fin Chr 154:1346 D 4 '41

Production miracles resulting from aviation, automotive industries' cooperation. G. T. Christopher. Aero Digest 40:116-17 Je '42

Production report to the Nation. J. H. Jouett. il Aviation 41:72-3+ My '42

Ryan celebrates 20th anniversary. il diag Aero Digest 41:244, 249, 251-2 S '42

Ryan celebrates 20th birthday. il Aviation 41:104-5+ S '42

Spreading the work for victory; subcontracting gains momentum. Aviation 41:167+ My '42

Teamwork for production; North American aviation, inc. R. Monroe. il diag Aviation 40:86-7, 96, 98 D '41

Today's no. 1 industry, the aircrafts. O. Ely. il Mag of Wall St 71:118-21 N 14 '42

Tom Girdler's truce; with the new deal and labor. il Fortune 26:89-93+ S '42

War factors spur to aviation progress. il Mag of Wall St 70:547-8+ S 5 '42

War production effort in aircraft. T. P. Wright. S A E J 50:sup29-31+, 64-6 N '42; Abstract. Aviation 41:105-6 Jl '42

Waves of planes; production rate is now highest in the world. Business Week p32-3 Mr 28 '42

What it takes to make 125,000 warplanes a year. J. H. Jouett. il Automotive & Aviation Ind 86:32 F 15 '42

Wing tips. Published in weekly numbers of Steel

Wing tips; review of 1941. il Steel 110:255-6, 260-1 Ja 5 '42

Uruguay

Uruguay's regulations governing aircraft purchases. For Comm W 6:19 Ja 24 '42

AIRPLANE mechanics

Aircraft apprentice. L. MacGregor. 134p $1.50 Pitman '42

Aircraft press tool maker. W. S. B. Townsend. 75p bds 5s Pitman '41

Airlines training army mechanics. il Aviation 41:216 S '42

American Airlines' four-year mechanics' course. R. H. Burck. il Instruments 15:98 Ap '42

Company schools train army, navy personnel. Automotive & Aviation Ind 86:70 Je 1 '42

Government and Delta give an intensive course for aircraft instrument mechanics. C. F. Nisbet, jr. il Instruments 15:100-1+ Ap '42

Maintenance of American aircraft with the R A F; British establish separate organization for training of specialists. M. W. Bourdon. il Automotive & Aviation Ind 87:19+ Ag 15 '42

Maintenance training with movies; Bell aircraft corporation. D. G. Forman. il Aviation 41:207-8+ Ag '42

Man behind the flight; a ground course for aviation mechanics and airmen. A. Jordanoff. 276p $3.50 Harper '42

Mathematics for the aviation trades. J. Naidich. 267p $1.80 McGraw-Hill '42

Mechanics training to be available for civilians. Civil Aero J 3:153 Ag 15 '42

Pan American's training program for service mechanics; use of slide films. J. Howard. il Aero Digest 41:225+ O '42

Producing maintenance men; Roosevelt aviation school. W. C. Erb. il Aviation 41:153, 155+ Ap '42

AIRPLANE mechanics—*Continued*

Technical training command's maintenance program. il Aviation 41:236+ Jl '42

Training naval aviation technicians. F. Tupper, jr. il Aero Digest 41:88+ S '42

Wright engine service school. il Aero Digest 40:90, 93 Ap '42

See also

Aeronautic instruments—Maintenance and repair

Bibliography

Some recent books for aviation mechanics. 2p Lib. of Congress, Division of aeronautics, Washington, D.C. '42

AIRPLANE models

A B C of model aircraft construction. C. S. Rushbrooke. 104p pa 3s Harborough pub. co, Leicester, Eng. '41

Aerodynamics for model aircraft. A. Zier. 259p $3 Dodd '42

Air motor drives model airplane. il Comp Air M 47:6823 Ag '42

Model aircraft handbook. W. Winter. 292p $2 Crowell '41

Model planes for beginners. H. H. Gilmore. 94p $1.25 Harper '42

AIRPLANE parts

Anodizing aircraft parts; composite of abstracts. Metals & Alloys 14:774+ N '41

Armstrong converts plants to aircraft parts production. il Aero Digest 40:170+ Je '42

Bombers by truck; new trailer-tractor giants designed to haul Ford-built subassemblies. il Business Week p74+ Je 27 '42

Converts auto-body plant to production of wing sections and other aircraft parts by adapting double-acting crank presses; Murray corp. of America. H. Chase. il Steel 110:64-6+ Mr 23 '42

Designs speed conversion to war production work; Tinnerman products, inc. making joining and fastening devices redesigns product to fit needs of aircraft industry. H. P. White. il diags Steel 111:113-14+ N 9 '42

Development of play in bolted joints under fatigue; abstract. B. Dirksen. Roy Aeronautical Soc J 46:sup300-1 Ag '42

Fleetwings tool up for mass production of parts. il Aero Digest 40:231-2+ Mr '42

Heat treating tubular airplane parts. il Iron Age 149:52 Mr 19 '42

Inspecting sand castings for aircraft. W. Rodgers. il Foundry 70:104-5, 192-3 My '42

Manufacturing airplane parts at Briggs; abstract. H. H. Budds and others. il Automotive Ind 85:23+ N 15 '41

Manufacturing rivets for airplanes. M. W. Seavey. il diags Mach 48:105-12 My; 135-9 Je '42

North American produces Dzus fasteners. il Aviation 41:134+ Ag '42

Parts tester ups output. il Aviation 41:141 S '42

Powder metallurgy; rapid expansion and importance in war economy. J. Geschelin. il Automotive & Aviation Ind 86:28-31+ Je 1 '42

Prefabricating aircraft parts at Reynolds. W. G. Reynolds and D. P. Reynolds. il Aviation 41:108-13 O '42

Pressure forming; production of aluminum and magnesium parts by variation of extrusion method. Business Week p54 D 13 '41

Reynolds speedup, from bauxite to finished aluminum aircraft parts. Business Week p70 O 3 '42

Steel frame containers for aircraft parts. il Aviation 41:137 My '42

Vega applies cast dies; Kirksite punch-press dies for airplane parts. J. A. Harris. il Am Mach 86:15-19 Ja 8 '42

Wood-plastic airplane parts. C. L. Bates. il Aviation 41:82-3+ Ja '41

X-ray examination of castings; Aircraft X-ray laboratories. il Aero Digest 40:209+ My '42

Transportation

Safe shipment of aircraft surfaces; steel containers. il Aero Digest 41:204+ O '42

AIRPLANE propellers

Airscrews for high-speed aircraft. F. Weinig. Roy Aeronautical Soc J 46:115-24 My '42

British airscrew development. il Engineer 174:304-6 O 9 '42

Controllable pitch propellers for light airplanes. W. E. Burnham. diags Aero Digest 40:224, 226, 228 Mr '42

Designing propellers to meet performance requirements. H. H. Warden. il diags Aviation 41:70-1, 73+ Ap '42

Does propeller weight limit aircraft engine size? K. B. Gilmore and A. V. Cleaver. il Automotive Ind 85:30-1+ N 15 '41

Escher Wyss variable pitch propeller. C. Keller. il diags Aviation 41:100-1, 209-10 Ap '42

Increasing bulk and horsepower of radial warplane engines prove worth of propeller cuffs and superchargers. il diag Steel 111:58, 60 O 12 '42

Mechanical impedance of damped vibrating systems. R. G. Manley. diags Roy Aeronautical Soc J 45:342-8 N '41

New deHavilland propellers. diags Automotive & Aviation Ind 86:33 F 15 '42

Propeller forces due to yaw and their effect on airplane stability. L. B. Rumph, R. J. White and H. R. Grummann. J Aeronautical Sci 9:465-70 O '42

Propeller-tip interference due to the proximity of a fuselage. A. Gail and H. Lu. diags J Aeronautical Sci 9:11-16 N '41

Remote propeller drives. F. T. Courtney. il diag Aviation 41:82-5+ My '42

Rotol contra-rotating propeller. M. W. Bourdon. il diag Automotive & Aviation Ind 86:36-7+ Je 15 '42

Vibration characteristics of three- and four-blade propellers for high-output engines. R. M. Guerke. S A E J 49:544-52 D '41

Manufacture

Automotive practices effective in producing airplane propellers; Nash-Kelvinator corporation. il Am Mach 86:599-601 Je 11 '42

Bomber propeller blades formed from steel tubing. il Steel 110:51 Je 1 '42

Curtiss propellers. J. Geschelin. il Automotive & Aviation Ind 87:20-5 Ag 15 '42

Design and manufacture of hollow steel propeller blades; abstract. H. P. Reiber. J Aeronautical Sci 9:75 D '41

New machines at Aeroproducts; speed production of full-feathering propellers; illustrations. Automotive & Aviation Ind 86: 35 Je 1 '42

New mass production methods for propellers; illustrations. Aviation 41:176 Jl '42

Propeller blades from seamless steel tubing. il Automotive & Aviation Ind 86:28-9 Je 15 '42

Propeller plant workers devise means to utilize tools to utmost. il Steel 111:46-7+ S 28 '42

Quality control of hollow steel blades. H. P. Reiber. il Aviation 41:68-71+ Mr '42

Welding steel propeller blades; abstract. C. A. Liedholm. Iron Age 150:52 O 22 '42

Testing

Airscrew pitch-correcting machine. il Engineering 154:166 Ag 28 '42

Dynamic balancing as applied to transport aircraft propellers. D. Speas and J. C. Luttrell. il diags J Aeronautical Sci 9:334-6 Jl '42

Dynamic balancing of propellers; Escher Wyss balancing device. E. Kronauer. il diags Aviation 41:119, 121+ My '42

How to obtain compact and powerful adjustable-speed drive; water-cooled motor operating on high-frequencies; testing model propellers. C. C. Clymer. il Gen Elec R 44:599-600 N '41; Same cond. Aero Digest 39:197+ D '41

NACA engine laboratory is world's largest. il Aviation 41:133+ S '42

Propeller testing device. diags Aviation 41: 105 Ja '42

Testing machine and transport stand for variable-pitch airscrews. il Engineering 154: 285, 290 O 9 '42

AIRPLANE propellers—Testing—*Continued*

Testing propellers at Hamilton laboratories. N. B. Pope. il Automotive Ind 85:30-3+ D 15 '41

AIRPLANE repair buildings

Bridge travelers erect aircraft building; airplane repair buildings and hangars. il Eng N 129:108-9 Jl 16 '42

AIRPLANE service stations

Directories

Directory of engine manufacturers; personnel, distributors and authorized service stations. Aviation 41:202, 218+ F '42

AIRPLANE shops

Maintenance notebook; illustrations. Aviation 41:126-7 Mr '42

Mass maintenance methods; Cal-Aero academy. C. Kidder. il Aviation 40:80-1, 176 D '41

See also

Air lines—Shops

Electric equipment

Aircraft maintenance; new aspect of electrical versatility. il Elec R (Lond) 130:747-51 Je 12 '42

Equipment

Servicing and maintenance of civil aircraft. il Engineering 153:410 My 22 '42

Safety measures

Protective devices used at air field shops. il Nat Safety N 46:28 Jl '42

AIRPLANE stability and stabilizers

Charting stability in aircraft. C. D. Perkins. Aviation 41:75, 78-9 Mr; 123, 125+ My '42

Diehl's static stability coefficient. M. M. Munk. Aero Digest 41:154+ Ag '42

Improved longitudinal stability calculation. H. P. Liepmann. bibliog J Aeronautical Sci 9:181-4 Mr '42

Propeller forces due to yaw and their effect on airplane stability. L. B. Rumph, R. J. White and H. R. Grummann. J Aeronautical Sci 9:465-70 O '42

See also

Airplane wings—
Flutter
Airplanes—Spinning

AIRPLANE struts

Pinned-pinned slender solid struts with parabolic taper. F. J. Turton. Roy Aeronautical Soc J 46:146-51 Je '42

Producing landing gear struts for the P-38. W. G. Wood. il Aviation 41:74-7+ Ap '42

Special turret lathe tooling speeds up defense production; landing gear struts; Lockheed hydraulic brake co. T. J. Hudson. il diags Mach 48:152-3 Ja '42

AIRPLANE supplies industry. See Airplane accessories industry

AIRPLANE tires. See Tires, Airplane

AIRPLANE wings

Advanced method for the determination of intermediate wing contours. T. G. Hill and M. B. Bassett. il diags J Aeronautical Sci 9:108-9 Ja '42

Die ebene potentialströmung um allgemeine dicke tragflügelprofile (two-dimensional potential flow past an ordinary thick wing profile); abstract. Aeronautical Eng R 1:81 S '42

Geometric airfoil characteristics. C. F. Marshner. Aviation 41:73-4 Mr '42

Manta long-range fighter, with Davis wing. il Aero Digest 40:248+ Mr '42

Method of development for tapered wings. P. Autry. Aero Digest 41:136, 139 Ag '42

New approach to the three-dimensional wing-theory; abstract. R. E. von Mises. Aviation 41:121 Je '42

Practical method of allowance for shear lag. J. De S. Coutinho. il diags J Aeronautical Sci 9:471-7 O '42

Reaction of an elastic wing to vertical gusts. W. R. Sears and B. O. Sparks. bibliog J Aeronautical Sci 9:64-7 D '41

Shear distribution among three or more shear webs. H. W. Sibert. J Aeronautical Sci 9:133-4 F '42

Simplified two-dimensional theory of thin airfoils. H. J. Stewart. J Aeronautical Sci 9:452-6 O '42

Some simplified methods in airfoil theory. M. A. Biot. bibliog J Aeronautical Sci 9:185-90 Mr '42

Statistical analysis of service stresses in aircraft wings; abstract. H. W. Kaul. Roy Aeronautical Soc J 46:345 O '42

Theoretical correction for the lift of elliptic wings. R. T. Jones. bibliog J Aeronautical Sci 9:8-10 N '41

Visualizing wing stall characteristics; use of moving pictures. il Aero Digest 41:208 S '42

See also

Airfoils

Bibliography

Slots and flaps; bibliography giving references for research. J Aeronautical Sci Aeronautical R Sec 9:58-61 F '42

Flutter

Airplane vibration tests as related to the flutter problem. C. B. Lyman. J Aeronautical Sci 9:24-30 N '41

Theory of wing-flutter; abstract. T. Theodorsen. Aviation 41:121 Je '42

Three-dimensional flutter analysis. W. M. Bleakney. bibliog J Aeronautical Sci 9:56-63 D '41

Vector methods of flutter analysis. W. M. Bleakney and J. D. Hamm. bibliog J Aeronautical Sci 9:439-51 O '42

Manufacture

Tooling for plastic-bonded aircraft. W. D. Lewis. diags Automotive & Aviation Ind 87:32-4+ Ag 15 '42

Unique aircraft construction methods; Murray corp. of America. W. F. Sherman. il Iron Age 149:33-43 Je 25 '42

Testing

Preliminary static test of a magnesium alloy wing. E. W. Conlon and J. C. Mathes. il diags J Aeronautical Sci 9:284-9 Je '42; Same cond. Automotive & Aviation Ind 86:36-9 Je 1 '42

AIRPLANES

Aircraft handbook. F. H. Colvin. 5th ed 784p $5 McGraw-Hill '42

Aircraft sessions; SAE annual meeting. S A E J 50:sup53-6 F '42

Aircraft sessions; SAE National aeronautic meeting. S A E J 50:sup35-7 Ap '42

Aircraft torch welding. C. Von Borchers and A. Ciffrin. 157p $1.50 Pitman '41

Airframes. E. Molloy and E. W. Knott, eds. 3v ea $2.50 Chemical pub. co. '41

Airplane and its components. W. R. Sears. 75p $1.25 Wiley '42

Civil aircraft; abridged specifications and other data; miniature plans. il Aviation 41:136-59 F '42

Grounded but fully animated airplane for checking and demonstrating instruments. il Instruments 15:210-11 Je '42

Lockheed pressure chamber; testing pressurizing equipment for high altitude flight. F. P. Dillon, W. Doble and H. A. Greenwald. il diags Aeronautical Eng R 1:13-15 S '42

Simple aerodynamics and the airplane. C. C. Carter. 5th ed 510p $4.50 Ronald press '41

See also

Aeronautics
Aeronautics, Commercial
Airfoils
Airplane engines
Airplane propellers
Airplane wings
Autogiros
Aviation
Flying boats
Helicopters
Ornithopters
Photography, Aerial
Seaplanes

Air conditioning

Airliner air conditioning; maintaining constant temperatures during lay-over periods. J. A. Ferris. il diag Aviation 41:160-1+ Ap '42

Conditioned air tunnel system; Northwest Airlines terminal supplies air to planes from central plant. M. Figen. il diags Heat & Ven 38:25-7 N '41

AIRPLANES—Air conditioning—*Continued*

Engineering problems in air cargo transportation. R. D. Kelly and W. W. Davies. Heating-Piping 14:297 My '42

Auxiliary power

Aircraft hydraulic control and power systems. diags Product Eng 13:656-8 N '42

Auxiliary power vital today; Lawrence produces compact 15 hp. auxiliary power plant for warplanes. B. Reynolds. il diags Aviation 41:112-15+ S '42

Electrical power in aircraft. G. W. Ledbetter. il diags Aero Digest 40:163-4, 166, 169-70 F '42

Bearings

Low temperature bearing lubrication; high speed equipment cleans and re-lubricates anti-friction bearings. il Aviation 41:135, 138 S '42

Production boosters at Fleetwings; packing ball bearings with grease. P. Anderson. il diags Aviation 41:111-12 Je '42

Repacking bearings. P. Montgomery. il Aero Digest 41:186+ Ag '42

See also

Airplane engines—Bearings

Bombers

See Airplanes, Military

Control

Development of the Ercoupe for simplified private flying. F. E. Weick. il diags S A E J 49:520-31 D '41

Fairlead guide blocks. il diags Mod Plastics 19:62-3+ Jl '42

Improved solutions of remote control problems. H. Chase. il Aviation 41:97, 99, 101 Je '42

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

Theory of the turn. L. F. Motl. diags Aero Digest 39:210, 213-14 D '41

See also

Airplane stability and stabilizers

Airplanes—Landing

Cowling fasteners

Aircraft cowl fastener. il Iron Age 150:59 Jl 30 '42

Testing aircraft cowl fasteners. O. J. Poupitch. il Aviation 41:128, 332 O '42

Design

Advanced method for the determination of intermediate wing contours. T. G. Hill and M. B. Bassett. il diags J Aeronautical Sci 9:108-9 Ja '42

Aircraft are different; manufacturing methods permit significant design changes with practically no loss in the rate of production. G. F. Nordenholt. il Product Eng 13:368-71 Jl '42

Aircraft design and combat performance. N. F. Silsbee. il S A E J 50:sup49-56 N '42

Aircraft engine installation. E. C. Sulzman. diags Aeronautical Eng R 1:5-7, 9-11 S '42

Aircraft layout and detail design. N. H. Anderson. 306p $3 McGraw-Hill '41

Aircraft mathematics. S. A. Walling and J. C. Hill. 189p 2s 9d Cambridge univ. press, Cambridge, Eng. '41

Aircraft welding; strength of fusion welds; nomographic chart; reference book sheet. R. R. Wiese. Product Eng 13:119-20 F '42

Airplane design. K. D. Wood. 6th ed 284p pa $4.50 for sale by Cornell co-op. soc, Ithaca, N.Y. '41

Airplane structural analysis and design. E. E. Sechler and L. G. Dunn. 412p $4 Wiley '42

Airplane vibration tests as related to the flutter problem. C. B. Lyman. J Aeronautical Sci 9:24-30 N '41

Analysis of shear stresses in aircraft shells. J. Meyer. bibliog diags Aero Digest 40:170, 172, 175-6+ My '42

Automotive body engineer in aircraft. J. C. Widman. S A E J 50:209-11 Je '42

Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9:213-19 Ap '42

Britain's Bristol Beaufighter I. diags Automotive Ind 85:28-9 N 15 '41

Buckling of a column with non-linear lateral supports. H. S. Tsien. bibliog J Aeronautical Sci 9:119-32 F '42

Calculation of the stresses in annular frames. H. Fahlbusch and W. Wegner. diags Roy Aeronautical Soc J 45:349-60 N '41

Continental design competition. diags Aero Digest 39:148, 150+ D '41

Design charts for tubes subjected to axial loads and combined stresses. W. C. Clayton. Aviation 41:169-70, 175 Jl '42

Design charts for tubes subjected to bending. W. C. Clayton. Aviation 41:80-2+ Ap '42

Design charts for tubes subjected to torsion. W. C. Clayton. Aviation 41:127, 129, 131 My '42

Design information on lucite. W. C. Wall. il diags Aero Digest 41:122+ O '42

Design of high-speed military airplanes. C. L. Johnson. il diags J Aeronautical Sci 8:467-74 O '41; Same. Engineer 172:392-3, 420-1, 432-3 D 5-19 '41

Designing propellers to meet performance requirements. H. H. Warden. il diags Aviation 41:70-1, 73+ Ap '42

Designing web-flange rivet connections for shear stresses. H. C. Martin. diags Aero Digest 41:162, 165-6+ S; 116-18+ O '42

Development of the Ercoupe for simplified private flying. F. E. Weick. il diags S A E J 49:520-31 D '41

Diehl's static stability coefficient. M. M. Munk. Aero Digest 41:154+ Ag '42

Does propeller weight limit aircraft engine size? K. B. Gilmore and A. V. Cleaver. il Automotive Ind 85:30-1+ N 15 '41

Eccentricity in columns. K. G. Merriam. J Aeronautical Sci 9:135-7 F '42

Engineering problems of air cargo transportation. R. D. Kelly and W. W. Davies. S A E J 50:492-8 N '42; Same cond. Aero Digest 40:110, 159-68 Ap '42; Abstract. Automotive & Aviation Ind 86:34-5 My 15 '42

Factors that influence design when using different materials. il Product Eng 13:530-2 S '42

Five years in retrospect. J. B. McDonald. Aero Digest 40:242-7 Ja '42

Foreign aircraft. diags Aviation 41:123-4, 127-8 F '42

Future of water-based airplanes. F. T. Courtney. il diags Aviation 41:91-3+ Jl; 93-5+ Ag; 116-19+ S; 122-3+ O; 122-3+ N '42

Geometric airfoil characteristics. C. F. Marshner. Aviation 41:73-4 Mr '42

Germany's new Dornier 217E warplane. M. W. Bourdon. il diags Automotive & Aviation Ind 87:18-22 Jl 15; 34-9 Ag 1 '42

Graphic analysis of tripod landing gears. S. Arkawy. diags Aero Digest 40:157-8+ Je '42

Importance of weight control in airline operation. C. Froesch. il Aviation 41:201-2+ Ag '42

Improvements in military planes now seen as aid to future civil aircraft; NACA annual report. Civil Aero J 3:33+ F 1 '42

Jet propulsion developments. P. M. Heldt. il diags Automotive & Aviation Ind 87:30-3 S 15 '42

Jet propulsion; Italian experiments with airplane. A. Klemin. diag Sci Am 166:254 My '42

Lateral instability of unsymmetrical I beams. H. N. Hill. il diags J Aeronautical Sci 9:175-80 Mr '42

Light aircraft performance calculation. J. Klein Serrallés. 67p bibliog(pxi) pa $2 Aviation press, San Francisco '41

Load factors obtained on civil airplanes in acrobatic maneuvers. E. I. Ryder. bibliog diags J Aeronautical Sci 9:195-201 Ap '42

AIRPLANES—Design—*Continued*

Lofting problems of streamline bodies. C. M. Hartley and R. A. Liming. il diags Aero Digest 39:184, 188, 190+ D '41; 40:180, 183-4 Ja; 151, 155+ F; 210, 213+ Mr; 126, 129+ Ap; 249-50+ My; 164+ Je; 41:209-10+ Jl '42

Mechanics of aircraft structures. J. E. Younger. 2d ed 396p $4 McGraw-Hill '42

Method of development for tapered wings. P. Autry. Aero Digest 41:136, 139 Ag '42

Need for aircraft manufacturers to follow engine installation specifications; engine oil pressure difficulty; abstract. H. C. Karcher. Aviation 41:107+ Jl '42

New pathways in aeronautical theory. R. V. Southwell. il diags J Aeronautical Sci 9:77-87; Discussion. 87-9 Ja '42

Northrop all-wing airplane. J. K. Northrop. il Aviation 40:82-3, 184+ D '41

Pinned-pinned slender solid struts with parabolic taper. F. J. Turton. Roy Aeronautical Soc J 46:146-51 Je '42

Practical method of allowance for shear lag. J. De S. Coutinho. il diags J Aeronautical Sci 9:471-7 O '42

Predicting parasite drag. W. N. Hammond. il diag Aero Digest 40:224, 226+ My '42

Progress in airplane design during 1941. A. E. Raymond. il Aeronautical Eng R 1:7-10 My '42

Progress in structural design through strain-gage technique. C. R. Strang. il diags S A E J 50:346-57 Ag '42; Excerpts. Metals & Alloys 16:530+ S '42

Propeller-tip interference due to the proximity of a fuselage. A. Gail and H. Lu. diags J Aeronautical Sci 9:11-16 N '41

Reaction of an elastic wing to vertical gusts. W. R. Sears and B. O. Sparks. bibliog J Aeronautical Sci 9:64-7 D '41

Remote propeller drives. F. T. Courtney. il diag Aviation 41:82-5+ My '42

Riveted fastenings. E. C. Posner. il diags Product Eng 13:446-50 Ag '42

Seal of weight approval as a means of weight control. S. Siggia. il diag Aero Digest 41:169-70+ S '42

Shear distribution among three or more shear webs. H. W. Sibert. J Aeronautical Sci 9:133-4 F '42

Shear stresses in tapered beams. A. G. Pugsley and R. A. Weatherhead. diags Roy Aeronautical Soc J 46:218-26 S '42

Ship and aircraft fairing and development, for draftsmen and loftsmen and sheet metal workers. S. S. Rabl. 90p $2.50 Cornell maritime press, New York '41

Simplified two-dimensional theory of thin airfoils. H. J. Stewart. J Aeronautical Sci 9:452-6 O '42

Sketch book of design detail (cont). diags Aviation 40:120-1, 123 D '41; 41:98-9, 101 Ja; 116-17, 119-20 F; 90-1, 93 Mr; 112-13, 115 Ap; 144-5, 147 My; 126, 129, 131 Je; 186, 189-90 Jl; 144, 147-8 Ag; 152, 155-6 S; 154, 157-8 O; 154, 157-8 N '42

Some simplified methods in airfoil theory. M. A. Biot. bibliog J Aeronautical Sci 9:185-90 Mr '42

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

Strain gages, key to indeterminate stresses; abstracts. C. R. Strang. il diags Machine Design 14:66-7, 90, 92+ My '42; Automotive & Aviation Ind 86:40-3 Je 1 '42

Strength analysis of riveted and bolted joints. W. A. McGowan. diags Aviation 41:105, 107, 109, 111-12+ My '42

Stress analysis of rings for monocoque fuselages. N. J. Hoff. bibliog diags J Aeronautical Sci 9:245-51 My '42

Stresses developed in sections subjected to bending moment; an extension of the theory of bending to include the effect of stress-strain characteristic. J. L. Beilschmidt. diags Roy Aeronautical Soc J 46:161-80 Jl '42

Structures unit assures integrity of design; North American Aviation's structures laboratory. R. L. Schleicher. il Aero Digest 39:192 D '41

Suggestion for columns of varying section. C. O. Harris. J Aeronautical Sci 9:97-9 Ja '42

Tapered beams. E. H. Atkin. diags Roy Aeronautical Soc J 46:227-36 S '42

Tenth annual meeting of the Institute of the aeronautical sciences; review of technical papers. A. Klemin. J Aeronautical Sci Aeronautical R Sec 9:9-13 Mr '42

Theoretical correction for the lift of elliptic wings. R. T. Jones. bibliog J Aeronautical Sci 9:8-10 N '41

Theory for the buckling of thin shells. H. Tsien. bibliog diags J Aeronautical Sci 9:373-84 Ag '42

Three-dimensional flutter analysis. W. M. Bleakney. bibliog J Aeronautical Sci 9:56-63 D '41

Tomorrow: flying freight trains; postwar revolution in aviation. il diags Business Week p18-19 Je 6 '42

Torsional center determination in stressed skin structures. M. Watter. diags Aero Digest 40:145-6 F '42

Value of a pound saved by weight control. J. E. Ayers. Aero Digest 41:108, 111, 113-14+ O; 238+ N '42

Vibration characteristics of three- and four-blade propellers for high-output engines. R. M. Guerke. S A E J 49:544-52 D '41

Will accessories impede payload? L. R. Hackney. Aero Digest 40:138+ Je '42

Wing surface and propeller disc area; abstract. A. Proll. Roy Aeronautical Soc J 46:sup287-8 Ag '42

See also

Airplane propellers
Airplane wings
Airplanes, Light
Helicopters

Bibliography

Slots and flaps; bibliography giving references for research. J Aeronautical Sci Aeronautical R Sec 9:58-61 F '42

Detection

Aircraft detector for use in rural areas, developed at Rensselaer polytechnic institute, Troy, N.Y. il diags Electrician 129:109-10 Jl 31 '42

Plane detector, portable. il Sci Am 166:271 Je '42

Propagation of sound through the atmosphere; bearing on audibility of aircraft and on exploration of altitudes. B. Haurwitz. bibliog map J Aeronautical Sci 9:35-43 D '41

Drawing

Aircraft blueprints and how to read them. C. Norcross. 102p McGraw-Hill '42

Airplane drawing. J. W. Giachino and H. A. Sonsmith. 64p $1.50 Goodheart-Willcox, 2009 S. Michigan av, Chicago '41

Three-dimensional views boost plane production; assembly operations are simplified. il diags Am Mach 86:505-9 My 28 '42

Electric equipment

Aircraft instruments. C. F. Savage. il diag Gen Elec R 45:495-9 S '42

Aircraft voltage regulator and cutout. R. C. Jones, D. W. Exner and S. H. Wright. il diags Elec Eng 61:Trans 334-9 Je '42

Auxiliary power vital today; Lawrance produces compact 15 hp. auxiliary power plant for warplanes. B. Reynolds. il diags Aviation 41:112-15+ S '42

Aviation radio course; study of aircraft generators. P. W. Karrol. il diags Radio N 28:22-3, 58-61 Jl '42

Curtiss-Wright Tell-Tale panel. il diag Aero Digest 40:235-6, 238+ Mr '42

D-c telemeter or d-c Selsyn for aircraft. R. G. Jewell and H. T. Faus. il diags Elec Eng 61:Trans 314-17 Je '42

Direct-reading aircraft insulation tester. W. N. Lambert. diag Electronics 15:84+ Ap '42

Electrical analyzer for aircraft. J. Kuffler. il Instruments 15:208 Je '42

Electrical developments of 1941; aviation. G. Bartlett. il Gen Elec R 45:34-6 Ja '42

AIRPLANES—Electric equipment—*Continued*

Electrical power in aircraft. G. W. Ledbetter. il diags Aero Digest 40:163-4, 166, 169-70 F '42

Electrical tester to check complex electrical installations on Lockheed planes. il Aviation 41:134+ My '42

Improved solutions of remote control problems. H. Chase. il Aviation 41:97, 99, 101 Je '42

Research leads to design improvements; electric and hydraulic equipment for airplanes; Adel precision products corp. H. R. Ellinwood. il Aero Digest 40:166+ Ja '42

Selecting insulated wires. R. G. Zender. Aero Digest 40:299 Ja '42

War production at Rochester div. of General Motors; electrical equipment for tanks and aircraft. il Automotive & Aviation Ind 87:30-3+ S 1 '42

Wiring for aircraft; electrical assembly designs. L. C. Jones. il Product Eng 12:634-7 D '41

Equipment

Aero equipment digest. Published in monthly numbers of Aero digest

Auxiliary equipment; dealing with fire-extinguishing equipment, care and maintenance of batteries and sparking plugs, ignition screening harness, de-icing equipment, and the maintenance of parachutes. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub. co. '41

Aviation equipment. Published monthly by Haire publishing company, New York

Directory of aviation suppliers. Aviation 41:225-76 F '42

Index to manufacturers of aircraft and engine accessories. Aero Digest 40:140+ Mr '42

Making aircraft oxygen cylinders; illustrations. Metals & Alloys 15:981-7 Je '42

Mechanism for fastening panels and cowling to airplane fuselage. diags Mach 48:221-2 Jl '42

Pressure molded parts simplify machining; hand pump for aircraft. il Product Eng 13:632 N '42

Shatter-proof non-bursting oxygen tanks for airmen. il Sci Am 165:337 D '41

Will accessories impede payload? L. R. Hackney. Aero Digest 40:138+ Je '42; Abstract. Automotive Ind 86:34-5 Ja 15 '42

See also

Radio apparatus on aircraft

Bibliography

Aero equipment digest index; items described in Aero digest from November 1941 to April 1942. Aero Digest 40:204+ Ap '42

Aero equipment digest index; items described in the Aero equipment digest section from May 1942 to October 1942. Aero Digest 41:326+ O '42

Fires and fire protection

Crashproof fuel tanks. J. W. Baird. il Aero Digest 40:130, 133-4, 136+ Ap '42; Abstract. Automotive & Aviation Ind 86:25+ Ap 1 '42

Installation and maintenance of CO_2 fire extinguishing systems; prevention of engine fires in aircraft. J. M. Noble. il diags Aviation 41:148-9 Mr '42

Freight carriers

See Airplanes, Freight

Fuel tanks

Crashproof fuel tanks. J. W. Baird. il Aero Digest 40:130, 133-4, 136+ Ap '42; Abstracts. Automotive & Aviation Ind 86:25+ Ap 1 '42; S A E J 50:345 Ag '42

Fuel feed at high altitude. W. H. Curtis and R. R. Curtis. diag S A E J 50:329-30 Ag '42

New gas tank insulation fastener; Tinnerman Speed Clips. E. Wheaton. il diag Aviation 41:69 Ap '42

Possibilities of Mareng cell; transporting motor fuel to distressed localities. il Steel 111:68+ Jl 6 '42

Speeding production by automatic welding; aluminum gas tanks for Flying Fortresses. il Aviation 41:178 Jl '42

Fuselage

Aircraft fuselage panels of expanded steel. W. F. Sherman. il Iron Age 150:49-54 S 17 '42

Experiments with low-alloy high-tensile steel sheets for trainer plane fuselages are encouraging. Steel 110:60, 63 Ap 13 '42

Propeller-tip interference due to the proximity of a fuselage. A. Gail and H. Lu. diags J Aeronautical Sci 9:11-16 N '41

Stress analysis of rings for monocoque fuselages. N. J. Hoff. bibliog diags J Aeronautical Sci 9:245-51 My '42

Heating and ventilation

Comfortization of military aircraft. A. A. Arnhym. bibliog il diags Aero Digest 40:188+ Je; 41:220, 223-4, 226+ Ag; 149-50, 153-4+ O '42

High altitude

Lockheed pressure chamber; testing pressurizing equipment for high altitude flight. F. P. Dillon, W. Doble and H. A. Greenwald. il diags Aeronautical Eng R 1:13-15 S '42

See also

Aviation—Altitude flying

Hydraulic equipment

Aircraft hydraulic control and power systems. diags Product Eng 13:656-8 N '42

Airplane hydraulic systems. E. M. Greer and H. J. Marx. il diags Aviation 40:70-1+ S; 60-1+ N '41; 41:96-7+ Ja '42

Castor oil base hydraulic fluids. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Design and materials for hydraulic packings. J. N. Smith. il diags Aero Digest 40:119-20, 122 Ap '42

Development of hydraulic pressure regulators. W. C. Trautman. il diags Aero Digest 40:200, 202 Mr '42

Fluctuations and surges in aircraft hydraulic systems. F. Postlethwaite. Engineering 153:381-2 My 15 '42

Growth and development of aircraft hydraulic systems and equipment; abstract. H. J. Marx and E. M. Greer. diags Automotive & Aviation Ind 86:21-3 Ap 1 '42

Hydraulic equipment. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub. co. '41

Hydraulic system installations. J. E. Thompson and R. B. Campbell. diags Aero Digest 39:134, 136, 139-40 N; 130+ D '41; 40:136+ Ja '42

Live-line hydraulic circuit. E. C. Breinig. il diags Aero Digest 40:159-60+ F '42

Manual for aircraft hydraulics; theory, maintenance, design. J. E. Thompson and R. B. Campbell. 202p pa $4 Aviation press, 580 Market st, San Francisco '42

Research leads to design improvements; electric and hydraulic equipment for airplanes; Adel precision products corp. H. R. Ellinwood. il Aero Digest 40:166+ Ja '42

Ice protection

Aircraft de-icing paints; abstract. C. R. Draper. Paint Oil & Chem R 104:11 O 22 '42

Anti-icing systems. H. C. Webb. il diags Aero Digest 40:193-4, 197-8 F '42

Carburetor icing. A. N. Troshkin. il Aero Digest 40:160, 164+ Ja '42; Same cond. Civil Aero J 3:6 Ja 1 '42

Comfortization of military aircraft. A. A. Arnhym. il Aero Digest 41:150 O '42

De-icer servicing and installation: illustrated instructions. Aeronautical Eng R 1:17-19, 21-3, 25, 27 S '42

De-icing equipment of a Dornier bomber. diags Engineer 174:6-8 Jl 3 '42

Ice indicator developed. il Aviation 41:138 O '42

Icing; another airline safety problem solved. A. Klemin. il Sci Am 167:37 Jl '42

AIRPLANES—Ice protection—*Continued*

Icing conditions create hazard at lower levels. Civil Aero J 3:28 Ja 15 '42

Icing of aircraft. B. C. Haynes. Civil Aero J 2:303+ D 1 '41

Icing problems in aircraft induction systems. L. B. Kimball. il S A E J 50:40-8 F '42; Abstract. Civil Aero J 2:303+ D 1 '41; Discussion. V. J. Skoglund. S A E J 50:49-51 F '42

Indicators of the speed of icing; abstract. E. Brun and E. Vassy. Aeronautical Eng R 1:95 Ag '42

Induction system de-icing. Civil Aero J 3:63+ Mr 1 '42

Inspection

Aircraft inspection. E. E. Wissman. 268p $3 McGraw-Hill '42

Effect of magnetic field distribution in magnetic inspection. F. L. Fuller. il diags J Aeronautical Sci 9:202-6 Ap '42

Inspecting Martin bombers; illustrations. Automotive & Aviation Ind 87:34-5 Jl 15 '42

Safe and sound, the mark of the aircraft inspector; Glenn L. Martin co. il Steel 111: 70-1, 102 Ag 10 '42

Instrument boards

Curtiss-Wright Tell-Tale panel. il diag Aero Digest 40:235-6, 238+ Mr '42

D-c telemeter or d-c Selsyn for aircraft. R. G. Jewell and H. T. Faus. il diags Elec Eng 61:Trans 314-17 Je '42

Landing

Approximate method to predict the transition or flare flight path in the take-off or landing of an airplane. O. Welling. J Aeronautical Sci 9:17-23 N '41

Blind landing of airplanes; low-power low-frequency transmitter. Science 95:sup6 Ja 30 '42

Defying ceilings; instrument landing facilities provide job for radio equipment makers. Business Week p66 Ap 25 '42

Economic effects of airport size and airway deficiencies. A. E. Blomquist. Aeronautical Eng R 1:5-6, 9-10 O '42

Instrument landing systems will aid war effort. A. C. Preil. il diags Aviation 41:197, 199 Je '42

Watch your landings! Civil Aero J 3:105 Ap 15 '42

See also
Aviation landing
stations

Landing gear

DePort space-time recorder; laboratory drop testing of airplane landing gear shock struts. A. N. Nordgren. il diag Instruments 15:313-14 Ag '42

Development of the Ercoupe for simplified private flying. F. E. Weick. il diags S A E J 49:522-5 D '41

Graphic analysis of tripod landing gears. S. Arkawy. diags Aero Digest 40:157-8+ Je '42

Handling tricycle landing gears. J. A. Johnson. il diags Aero Digest 41:174, 177-8, 181+ Ag '42

Landing gear for fighting planes. J. Bemb. il diags Am Mach 86:115-26 F 19 '42

Live-line hydraulic circuit. E. C. Breinig. il diags Aero Digest 40:159-60+ F '42

Producing landing gear struts for the P-38. W. G. Wood. il Aviation 41:74-7+ Ap '42

Space-time recorder; drop testing of landing gear. F. N. M. Brown. J Aeronautical Sci 9:290-2 Je '42; Excerpts. Instruments 15: 310-11 Ag '42

Theory of aircraft undercarriages in relation to absorption of initial landing impact. P. B. Walker. diags Roy Aeronautical Soc J 46:186-97 Ag '42

Tricycle landing gear design. E. S. Jenkins and A. F. Donovan. bibliog diags J Aeronautical Sci 9:385-96, 397-410 Ag-S '42

Light airplanes

See Airplanes, Light

Lighting

High frequency adapts fluorescent lamps to aircraft. R. F. Hays. Elec Eng 60:539 N '41; Abstract. diag Electronics 14:77-8 D '41

Lightning effects

Lightning, and its effect on aircraft. Aero Digest 40:122+ My '42

Lubrication

Low temperature bearing lubrication; high speed equipment cleans and re-lubricates anti-friction bearings. il Aviation 41:135, 138 S '42

Use of petroleum products in aircraft; abstract. F. D. Klein. Nat Pet N 34:26-7 O 28 '42

Maintenance and repair

Aircraft maintenance. W. E. Koneczny. Aero Digest 40:124, 164+ Ap-My '42

Aircraft maintenance; new aspect of electrical versatility. il Elec R (Lond) 130: 747-51 Je 12 '42

Aircraft maintenance problems in North Africa; desert problems. R. Toland. il S A E J 50:sup46-8 N '42

Annual maintenance number. il Aviation 40: 50-67+ D '41

Crashed planes fly again; Britain's nationwide repair system. il Aero Digest 40:88, 91 My '42

Helping to keep R.A.F. fighters in action; illustrations. Automotive & Aviation Ind 86:28-9 My 15 '42

Jacks for aircraft maintenance and other special work. H. Chase. il diags Steel 110: 76-7 Ap 13 '42

Maintenance of American aircraft with the R A F; British establish separate organization for training of specialists. M. W. Bourdon. il Automotive & Aviation Ind 87: 19+ Ag 15 '42

Maintenance training with movies; Bell aircraft corporation. D. G. Forman. il Aviation 41:207-8+ Ag '42

Portable X-ray unit speeds field maintenance. il Aviation 41:210 S '42

Primary flight maintenance; civilian schools under contract to train army pilots; maintenance technique at Hawthorne school of aeronautics. W. D. Strohmeier. il Aviation 41:187, 189+ My '42

See also
Airplane engines—
Repair
Airplane shops

Manufacture

Aircraft are different; manufacturing methods permit significant design changes with practically no loss in the rate of production. G. F. Nordenholt. il Product Eng 13: 368-71 Jl '42

Aircraft assembly. C. F. Marschner. 104p $1 Pitman '42

Aircraft construction. D. H. Surgeoner. 116p $1.25 Longmans '42

Aircraft drop forgings. A. H. Milnes. il Steel 110:64-6+ Mr 9; 68-9+ Mr 16 '42; Correction. 110:79 Mr 23 '42

Aircraft fuselage panels of expanded steel. W. F. Sherman. il Iron Age 150:49-54 S 17 '42

Aircraft metal finishing; abstract. E. R. Irwin and J. Teres. Iron Age 149:66, 123 Je 25 '42

Aircraft press tool maker. W. S. B. Townsend. 75p bds 5s Pitman '41

Aircraft production number. il diags Mach 48:133-214 Jl '42

Aircraft riveting. A. H. Nisita. 160p $2.50 McGraw-Hill '42

Aircraft riveting; a guide for the student. E. B. Lear and J. E. Dillon. 118p $1.25 Pitman '42

Aircraft sheet metal workers' manual. R. C. Look. 122p $2.50 Goodheart-Willcox co, Chicago '42

Aircraft sheet metalwork. J. W. Giachino. 2v 123p; 59p v 1 $1.96; v2 pa 96c Manual arts press '42

AIRPLANES—Manufacture—*Continued*

Aircraft spot welding research; investigation of surface treatment of Alclad 24S-T in preparation for spot welding. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup257-65 Je '42

Aircraft torch welding. C. Von Borchers and A. Ciffrin. 157p $1.50 Pitman '41

Aircraft welding; composite of abstracts. Metals & Alloys 15:298+ F '42

Airplane lofting. W. Nelson. 147p $1.80 McGraw-Hill '41

Aluminum alloy bead proportions. E. J. Rantsch. diags Aero Digest 40:209 Mr '42

Aluminum can be deep drawn. C. C. Misfeldt. il diags Am Mach 86:285-9 Ap 2 '42

Arc welding applications. E. W. P. Smith. il Aero Digest 41:180, 182+ S '42

Avro Lancaster heavy bomber. il diag Engineer 174:156-9 Ag 21 '42

Behind the luftwaffe; over one-third of Germany's Henschel Hs-126 observation plane is made of metal stampings. P. H. Wilkenson. il Am Mach 86:26-30 Ja 8 '42

Boeing's production density system. il Automotive & Aviation Ind 87:16-19+ O 15 '42

Bomber plan no.3. Business Week p29-31 Ja 17 '42

Bombers get the green light. R. A. Steinbauer. il Am Mach 28:513-20 My 28 '42

Bombers on line; Vultee aircraft's purchase of Consolidated. Business Week p72-3 D 6 '41

Bombers on parade; Consolidated aircraft corporation's new conception of mobile assembly. J. M. Gwinn, jr. il diags Am Mach 86:659-74 Je 25 '42; Same. Aviation 41:98-103+ Jl '42

Briggs aids aircraft production. il Iron Age 149:35-8 Ja 8 '42

Building the B-24. R. H. Fleet. il Aviation 41:66-9+ Ja '42

Chobert riveting machine-gun speeds aircraft work. il diags Steel 111:90, 92 O 12 '42; Aero Digest 41:186+ S '42

Cleaning Alclad for production. F. Morris. il Aviation 41:85+ Ap '42

Comparative formability of various aluminum alloys. T. H. Hazlett. il diags Iron Age 150:33-7 O 15 '42

Control procedure of torch welding in aircraft. E. Dudley. bibliog diags Aeronautical Eng R 1:21, 23-5, 27 Jl '42

Controlling physical properties of rivets; Glenn L. Martin company technique. J. H. Eades. il Aero Digest 40:179-80, 183 My '42

Correct methods of Plexiglas installation. D. S. Frederick. il diags Aviation 41:62-8 Ap '42

Development of zero welding by Ford at Willow Run. F. M. Reck. il Aero Digest 41:164, 167+ O '42

Douglas vertical assembly line. il Automotive & Aviation Ind 86:30-1 F 15 '42

Drawing dies for airframe stampings; Kirksite A die material performs efficiently. G. A. Brewer. il Iron Age 149:37-41 My 28 '42

Drop hammer forming of aircraft parts. C. H. Miller and R. B. Stubbs. il Iron Age 150:59-62 Ag 27 '42

Drop-hammer methods in aircraft production. C. J. Frey and S. S. Kogut. il diags Aero Digest 40:199-200, 202, 204+ My; 147, 149-50, 152 Je; 41:140, 145-6+ Jl '42

Drop hammer technique and innovations. C. J. Frey and S. S. Kogut. il diags Aviation 41:130-3+ O '42

Duplicating Flying Fortress work templates; electrolytic transfer process. il Iron Age 150:40 Ag 20 '42

Efficient machine loading; Bell Aircraft engineers coordinated system of time studies and use of machine loading control board. M. Stupar. diag Aviation 41:94+ Je '42

Elastic theory in sheet metal forming problems. F. R. Shanley. bibliog il diags J Aeronautical Sci 9:313-33 Jl '42; Same cond. Automotive & Aviation Ind 87:112+ O 1; 33-7 O 15 '42

Electrolytic process of template reproduction; Boeing, Douglas and Vega. il Aero Digest 40:120+ Je '42

Electrolytic transfer process speeds template production; Vega aircraft corp. il Steel 110:56 My 25 '42

Evaluation method for defective driven rivets. F. D. Klein, jr. il Aero Digest 39:154, 158, 162+ D '41

Extensive training courses convert auto workers to fuselage production; Hudson motor car company. il Am Mach 86:595-8 Je 11 '42

Facilitating production by tooling engineering. C. H. Speck. il Aero Digest 39:140, 144+ D '41

Flash butt welding of chrome-molybdenum steel. W. S. Evans and V. V. Netchvolodoff. il diags J Aeronautical Sci 9:207-12 Ap '42

Fleetwings steps up production; some new tools. il diag Aviation 41:74, 77+ Ja '42

Flush-riveting technique at Bell Aircraft. H. W. Ashburn. il diags Steel 110:56-9 Ja 26 '42

Flying boat plant in the South; Nash-Kelvinator corporation. il Manuf Rec 111:31+ O '42

Forming-by-drawing; new mass-production process for producing compound curved surfaces in sheet metals. F. Anderson. il diags Aviation 41:82-5 Je; 162-3, 165-6 Jl '42

Forming convex flanges and joggles; sheet metal aircraft parts. W. Schroeder and R. B. Glassco. il diags Iron Age 149:49-53 Je 11 '42

Forming extrusions by machine methods. C. Coe. il diags Aviation 41:108-11+ S '42

From print to part in eight hours; development of Kirksite dies for punch press work; Vega airplane company. J. Harris. il Aviation 41:70-1+ Ja '42

Gas and resistance welding the aircraft alloy SAE X-4130. H. Lawrence. il Steel 109:84-5, 88, 90+ N 17 '41

Getting them into the blue. E. K. Gann. 154p $2 Crowell '42

Heat treating aluminum aircraft parts. Iron Age 149:47-9 My 21 '42

Heating units remove aircraft skin wrinkles. il Iron Age 150:55 S 10 '42

Helium shielded arc welding; Heliarc process. H. V. Pavlecka. il diags Iron Age 150:74-6 S 17 '42; Same. Steel 111:98-100+ N 23 '42; Same cond. Automotive & Aviation Ind 87:40-1+ S 15 '42; Same cond. Metals & Alloys 16:451-2+ S '42; Same cond. Aero Digest 41:218+ O '42; Same cond. Aviation 41:147, 323-4 N '42; Abstract. Am Mach 86:1043-4 S 17 '42

How Airacobras are built. O. L. Woodson. il diags plan Am Mach 85:1145-60 N 12 '41

How to do aircraft sheetmetal work. C. Norcross and J. D. Quinn, jr. 285p $2.20 McGraw-Hill '42

Hydro-press forming with rubber platens. T. H. Hazlett and W. Schroeder. bibliog il diags Iron Age 149:41-6 Je 18 '42

Industry converts rapidly to making war materials; Nash-Kelvinator wartime aircraft industry. Refrig Eng 44:86 Ag '42

Influence of automotive mass production methods on the manufacture of war materials. J. Geschelin. il Automotive & Aviation Ind 87:32-5 Jl 1 '42

Liaison engineering. C. H. Speck. il Aero Digest 40:188, 190+ F '42

Low-alloy, low-carbon steel in aircraft construction. W. F. Sherman and T. C. Campbell. il Iron Age 150:62-7 Jl 2 '42

Low carbon, low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:191-2, 195-6, 199+ Jl '42

Management control of design and welding of aircraft steels. J. P. Dods. il diags Welding J 20:787-92 N '41

Martin's belt-conveyor line speeds production of special sub-assemblies. il Aero Digest 39:228 D '41

Mass producing the A-20 bombers. J. D. Weaver. il diags Aviation 41:86-9, 91 Je '42

Mass production of large-size aircraft templates speeded by advanced electrolytic etching process. R. R. Nolan. S A E J 50:sup43-5 Je '42

AIRPLANES—Manufacture—*Continued*

Mass production through flash welding; engine mount; Douglas aircraft company. C. J. Hertel. il diag Welding J 20:846-9 D '41

Mechanics of deep drawing sheet metal parts. G. Brewer and M. M. Rockwell. il diags Aero Digest 40:126+ F '42

Metal aircraft construction. M. Langley. 4th rev ed 443p $5 Pitman '41

Metalworking and airframes. A. A. Schwartz. il Steel 110:56-8 F 2 '42

Methods engineering. C. H. Speck. il Aero Digest 40:292, 295-6 Ja '42

Methods of template reproduction; photographic, X-ray and electrolytic methods. C. O. Prest. il Aero Digest 40:240 Mr '42

More factory areas dedicated to aircraft production. il Aero Digest 40:86, 90, 93 Ja '42

Motor car industry's mass-production methods applied to aircraft. L. V. Spencer. il Aero Digest 41:73-4, 76, 82-8+ Jl '42

Multiple subpress dies for aircraft fabrication. G. F. Wales. il diag Iron Age 150: 52-5 Ag 27 '42

New riveting technique facilitates work in difficult places. il diag Automotive & Aviation Ind 86:31 Ap 1 '42

New type of blind rivet. R. H. Gill. il diags Aero Digest 39:232+ D '41

New type rivets end blind riveting. J. J. Russell. il diag Aero Digest 40:239-40 My '42

North American Aviation's extensive subcontracting program. il Aero Digest 39:168+ D '41

Northrop tools up for mass production of Vultee dive-bombers. il diags Aero Digest 39:205-6, 209 D '41

Now it's bombers by Fisher: illustrations. Automotive Ind 85:24-5 N 15 '41

Perspective drawings speed plane assembly. il diags Aviation 41:118-20 Je '42

Photo templates speed production; Lockheed aircraft co. G. T. Allen. il Aviation 41: 98-9 F '42

Photographic templates. E. C. Jewett and C. D. Tate. il diags Mech Eng 64:787-92 N '42

Photostat-tracings save drafting room time; Lockheed aircraft corporation. L. C. Jones. il diags Product Eng 13:653-5 N '42

Place and use of spot welding in design and production of aircraft; abstract. G. S. Mikhalapov. diags Product Eng 13:670-1 N '42

Plane templets duplicated by etching; Northrop process. F. M. Gibian and W. Chatten. il diags Am Mach 86:676-80 Je 25 '42; Same abr. Aviation 41:142, 144-5+ Jl '42

Plywood planes by the Vidal process. P. M. Heldt. il Automotive & Aviation Ind 87:28-9+ Jl 15 '42

Practical aircraft sheet-metal work, including riveting, assembly, blueprint reading and template developing. R. Frazer and O. Berthiaume. 193p $3 McGraw-Hill '42

Preparation of aluminum alloy for spot welding. T. E. Piper. il Welding J 21:661-4 O '42

Procedure control for aircraft welding. A. K. Seemann. il diags Aviation 40:66-7+ N; 116-17, 210 D '41

Producing templates by a new process. il Aero Digest 41:217+ O '42

Production boosters at Fleetwings. P. Anderson. il diags Aviation 41:111-12 Je '42

Production breakdown illustration. G. Tharratt. diags S A E J 50:408-16 S '42; Abstract. Automotive Ind 85:24-8+ D 15 '41

Production for victory in automotive industry. E. L. Warner, jr. il Automotive & Aviation Ind 87:56-9+ O 1 '42

Production illustrations; production shortcut for every metal-working plant; system developed by Douglas aircraft co. il diags Steel 111:56-8, 60+ Ag 24 '42

Production of primary trainers at Ryan. il Automotive Ind 86:42-3 Ja 1 '42

Production short-cuts. il Aero Digest 40: 253-4+ Mr '42

Production short cuts at aircraft plants. J. R. Custer. il Automotive & Aviation Ind 87:78-87 O 1; 26-9 O 15 '42

Progress report on the use of flash welding as a means of fabricating aircraft structural parts from X-4130 steel. R. P. Della-Vedowa. il diags Welding J 21:sup421-6 S '42

Robot draftsman; Glenn L. Martin co. il Chem & Eng N 20:146 Ja 25 '42; Refrig Eng 43: 110 F '42

Roll-forming metal sections in a British airplane plant. diags Mach 49:175-8 S '42

Rolled and cast Kirksite in airplane plants; forming and blanking dies. W. W. Broughton. il diags Mach 49:139-47 O '42

Rust-proofing cadmium plated aircraft tubular parts. B. Gross. il Iron Age 150:52-3 Jl 30 '42

Shop problems of aircraft manufacture; abstract. A. C. McDonnell. Mech Eng 64:571 Jl '42

Shop shots from aircraft plants; illustrations with text. Am Mach 86:950-1 S 3 '42

Smart tooling spurs the Mustang. G. Stroh. il Am Mach 86:905-11 Ag 20 '42

S.A.E. national aircraft production meeting, Los Angeles, Oct. 30-Nov. 1. Aviation 40: 113+ D '41; Automotive Ind 85:19-23+ N 15 '41; 86:34-5 Ja 15 '42; S A E J 49:sup15-18. 51-8 D '41

SAE national aircraft production meeting, Los Angeles, Oct. 1-3. S A E J 50:sup36-7, 60-2 N '42; Automotive & Aviation Ind 87: 12-14+ O 15 '42

Speeding up deep drawing of aircraft parts; Misfeldt process, Vega airplane company. C. C. Misfeldt. il Aviation 41:64-5+ Mr '42

Spitfire V fighter in production. il diags Automotive & Aviation Ind 87:36-9+ Ag 15; 34-7+ S 1 '42

Spot welding aluminum at Lockheed. H. L. Chiles. il Iron Age 149:29-33 Ja 29 '42

Spot-welding of aluminum alloys for aircraft production. W. F. Hess. il Min & Met 23: 114-16 F '42

Strength analysis of riveted and bolted joints. W. A. McGowan. diags Aviation 41:91-2, 95-6, 99+ Ap; 105, 107, 109, 111-12+ My '42

Stretch-forming contoured sheet metal aircraft parts. T. H. Hazlett and M. M. Rockwell. bibliog il diags Iron Age 149:49-53 Je 4 '42

Stretch-forming speeds aircraft production. F. C. Hoffman. il diags Iron Age 150:68-77 O 1 '42

Subcontracting plays major role in Curtiss-Wright production. J. F. Reinhart. il Aero Digest 41:98-100, 103 O '42

Survey of aircraft resistance welding equipment. L. P. Wood. diags Welding J 20:775-80 N '41

Template manufacture; duplicating process developed by Westland aircraft co. il Iron Age 149:60-2 F 5 '42

Templates; rapid process used in aviation industry; electrolytic process, developed by Lockheed Aircraft. A. Klemin. Sci Am 166: 254-5 My '42

Tentative standards and recommended practices and procedures for spot welding of aluminum alloys. il diags Welding J 21: 515-55 Ag '42; Excerpts. Metal Prog 42: 367+, 912-13+ S, N '42

Three-dimensional views boost plane production; assembly operations are simplified. il diags Am Mach 86:505-9 My 28 '42

Thunderbolts to smite the Axis; Republic P-47 high-altitude fighter. H. E. Lasker. il Aviation 41:100-5+ Ag '42

Tooling for aircraft production. il Mod Plastics 19:33-7, 104, 106+ Jl '42

Tooling for plastic-bonded aircraft. W. D. Lewis. diags Automotive & Aviation Ind 87:32-4+ Ag 15 '42

Unleashing the Thunderbolt; jigs and assembling methods; Republic aviation corporation. O. G. Pyler. il diags Am Mach 86: 1173-88 O 15 '42

Using isometric drawings to speed assembly; Douglas aircraft company. il diags Factory Management 100:73-82 Je '42

Value of a pound saved by weight control. J. E. Ayers. Aero Digest 41:108, 111, 113-14+ O '42

AIRPLANES—Manufacture—*Continued*

Vidal process for molded structures. E. E. Miller. il Aviation 41:124-7+ O '42

War production number. il diags Aviation 41:98-223 Jl '42

War-time production short cuts. il diag Aero Digest 40:217-18, 221 My; 118+ Je; 41:154, 157-8 Jl; 168, 170, 173 Ag; 188, 191-2 S; 269-70, 273 O '42

Welding in construction and maintenance of aircraft. A. K. Seemann. il diags Aero Digest 40:187-8, 191-2, 195 Ja '42; Same. Welding J 21:437-42 Jl '42

Welding in the aircraft industry. F. M. Smith. il diag Welding J 21:23-32 Ja '42

Welding, its application to aircraft. F. H. Stevenson. il diags Welding J 21:676-82 O '42

Welding jigs for nacelle subassemblies. P. Mitchell. il Am Mach 86:1114-16 O 1 '42

Welding of light gage steel tubing in aircraft production. J. P. Weed. il Welding J 21:379-83 Je '42

West Coast airplane industry zooms into big production. J. Geschelin. il Automotive Ind 85:18-23+ D 15 '41; 86:32-9+ Ja 1; 24-31+ Ja 15 '42

Why of Northrop's engineering-loft technique. F. M. Gibian and W. Chatten. Aviation 41:124 S '42

Working transparent plastics. J. Sasso. il diags Aviation 41:86-7+ My; 105, 107, 109+ Je '42

X-ray of aircraft castings, its control and value. B. C. Boulton. J Aeronautical Sci 9:271-83 Je '42; Abstract. Metals & Alloys 16:812+ O '42

See also

Airplane factories

Materials

Advances in production and assembly of plywood in aircraft construction. H. G. Bersie and E. R. Clarke. il Aeronautical Eng R 1:13-15, 17, 19 Jl '42

Aircraft and engines; materials. G. F. Titterton. il Metals & Alloys 15:65-6 Ja '42

Aircraft electroplating. R. R. Janssen. diag Metal Finishing 40:247-9+ My '42

Aircraft engine & metal finishes. M. A. Coler. 128p bibliog(p123-4) $1.50 Pitman '42

Aircraft materials and processes. G. F. Titterton. 2d ed rev & enl 340p $3.50 Pitman '41

Aircraft program of the plastics industry. W. T. Cruse. il Aero Digest 41:226, 228, 231 Jl '42

Aircraft spot welding research; investigation of surface treatment of Alclad 24S-T in preparation for spot welding. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup257-65 Je '42

Aircraft woods; properties and selection data. Aviation 41:157 S '42

Airplane pilot seats. il Mod Plastics 19:48-9+ Ag '42

Airplane welding and materials. J. B. Johnson. 2d ed 409p $3.50 Goodheart-Willcox co, 2009 S. Michigan av, Chicago '41

Aluminum alloy bead proportions. E. J. Rantsch. diags Aero Digest 40:209 Mr '42

Aluminum alloys for aircraft. T. L. Fritzlen. bibliog il Aeronautical Eng R 1:5, 7-9, 11-12 Je '42

Aluminum bronzes commonly used in aircraft; tabulation. W. W. Edens, comp. Metal Prog 42:678 O '42

Aluminum goes to war; abstract. W. Ashcroft. Metals & Alloys 15:1058+ Je '42

America turns pro; huge program for production of airplane metals designed to overcome lead of Axis powers. H. F. Lee. Barron's 22:8 Mr 16 '42

Beryllium alloys in aviation. E. B. Wilford. il Aviation 41:92-3+ Ja '42

Characteristics of woods for aircraft structural plywoods. R. C. Perkins. il Aero Digest 41:181-2, 185-6, 189-90 O '42

Cloth laminates for non-structural parts. J. Delmonte. diags Aero Digest 41:247-8 Jl '42

Correct methods of Plexiglas installation. D. S. Frederick. il diags Aviation 41:62-8 Ap '42

Design information on lucite. W. C. Wall. il diags Aero Digest 41:122+ O '42

Determination of strain distribution by the photo-grid process. G. A. Brewer and R. B. Glassco. il J Aeronautical Sci 9:1-7 N '41

Directory of aircraft and engine materials. Aero Digest 41:353-6+ Jl '42

Economic advantages of certain aluminum alloys for aircraft construction. K. F. Thornton. Aeronautical Eng R 1:5-7, 9, 11 Ag '42

Electric salt bath treatment of aluminum aircraft alloys. C. Santore. il Metals & Alloys 15:254-5 F '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74, 76+ Mr 16 '42

Factors that influence design when using different materials. il Product Eng 13:530-2 S '42

Ford experiments with steel castings for aircraft. il Steel 111:60 Jl 20 '42

Hardness test as a means of estimating the tensile strength of metals. W. J. Taylor. Roy Aeronautical Soc J 46:198-209 Ag '42

Heat-treatment of aluminum aircraft parts. T. E. Piper. il diags Am Mach 86:1107-10 O 1 '42

Hot wings and cold set resins. il Mod Plastics 20:52-5 S '42

Investigation of spot-weld test specimens; comparison of specimen types and dimensions; Alclad. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup113-22 Mr '42

Laboratory control for Ranger engines. C. B. F. Macauley. il Aviation 40:108-9, 190+ D '41

Langley aircraft corporations; airplane of molded plastic-bonded plywood. J Aeronautical Sci Aeronautical R Sec 9:37+ N '41

Light alloy castings in aircraft. Foundry 70:70-1+ Ag '42

Magnaflux aircraft inspection manual. F. B. Doane and W. E. Thomas. 193p $1.75 Magnaflux corp, 5908 Northwest highway, Chicago '41

Materials review, 1941. J. B. Johnson. J Aeronautical Sci Aeronautical R Sec 9:9-14 bibliog(148 titles, p 13-14) Ja '42

Metallurgy of aircraft engines; German report on captured airplanes. Iron Age 148: 33-40 D 25 '41

Mining and aircraft production. R. Linton. Aero Digest 40:134, 308 Ja '42

Mitsubishi Kinsei engine. W. G. Ovens. il Automotive & Aviation Ind 87:22-5+ Jl 1 '42; Abstract. Iron Age 150:61 Jl 2 '42

Molded plywood planes; Langley planes. A. Klemin. il Sci Am 166:36-7 Ja '42

Molding plastic-plywood; Vidal process. il Mod Plastics 19:46-9+ Jl '42

Morrow plywood trainer. il Aviation 40:107 D '41

Morrow trainer; plastic-bonded plywood. il Aero Digest 39:231+ D '41

New Ryan PT-25; plastic-bonded plywood military trainer. il Aviation 41:235+ O '42

New Ryan PT-25 trainer built of non-strategic materials. il Aero Digest 41:198, 201-2 O '42; Excerpts. Aeronautical Eng R 1:99+ O '42

New steel-plywood plane. il Barron's 22:5 Mr 30 '42

Non-ferrous alloys for airframes and engines. J. B. Johnson. Aero Digest 41:130+ Jl '42

1,000 steel planes for South America. Business Week p86-7 N 15 '41

Optical considerations in the design of transparent plastic enclosures. W. F. Bartoe. il diag Aero Digest 41:233-4 Jl '42

Panels of light weight for transport use; Fybr-Tech flying boats. il Sci Am 166:29-30 Ja '42

Plastic parts on airplanes; diagram. Dun's R 49:50 N '41

Plastics and their possible applications. V. E. Yarsley. Electrician 128:457-8 My 8 '42

Plastics competition award to Bristol aircraft corp. il Mod Plastics 19:154-5 N '41

AIRPLANES—Materials—*Continued*

Plastics competition award to Glenn L. Martin co. il Mod Plastics 19:58-61 N '41

Plastics in British aircraft. Mod Plastics 19:82+ Ja '42

Plastics research; plastic-plywood aircraft. W. Gallay. il Can Chem & Process Ind 25:635-8 D '41

Plywood can take it! O. W. Timm. il Automotive & Aviation Ind 87:104+ O 1 '42

Plywood flies and fights. il Fortune 25:74-5+ Mr '42

Plywood planes by the Vidal process. P. M. Heldt. il Automotive & Aviation Ind 87:28-9+ Jl 15 '42

Plywood; strength values and computations. Aviation 41:161 S '42

Preliminary static test of a magnesium alloy wing. E. W. Conlon and J. C. Mathes. il diags J Aeronautical Sci 9:284-9 Je '42; Same cond. Automotive & Aviation Ind 86:36-9 Je 1 '42

Present status of aircraft finishes. M. A. Coler and E. De Nio. Aero Digest 41:254+ Jl '42

Properties and uses of Resistoflex; synthetic-resin-lined hose. W. MacWilliam. il Aero Digest 40:229+ My '42

Properties of plastics used by the aviation industry; tabulation. Aero Digest 41:250, 252 Jl '42

Ready references for quickly calculating weights of aircraft materials. C. Dorsett. Aero Digest 40:184, 187 My '42

Reclaim rubber for aircraft. S. S. Kogut. il Aviation 41:122-3+ Ag '42

Resin-bonded wood laminates for shell type aircraft structures. A. A. Gassner. bibliog diags J Aeronautical Sci 9:161-71 Mr '42

Rust-proofing cadmium plated aircraft tubular parts. B. Gross. il Iron Age 150:52-3 Jl 30 '42

Selection of aluminum alloys and processes for increased aircraft production. E. Engel. Aero Digest 41:223-4+ Jl '42

Silver's importance; applications and possibilities in automotive and aviation fields. W. C. Hirsch. il Automotive & Aviation Ind 86:17-19, 61 My 1 '42

Some calibration data and scatter measurements for the radiography of magnesium aircraft castings; abstract. L. W. Ball. Metals & Alloys 16:84+ Jl '42

Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42

Springback in flanging; curves and table for determining die-block angles. F. B. Chapman, T. H. Hazlett and W. Schroeder. diags Product Eng 13:382-3 Jl '42

Springs of beryllium copper. R. W. Carson. il Aero Digest 41:150, 153+ Jl '42; Excerpts. Metals & Alloys 16:344+ Ag '42

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

Steel and wood design for North American combat training planes. il Automotive & Aviation Ind 86:34-5+ My 1 '42

Steel and wood replace aluminum; North American Aviation's pursuit trainer plane. il Machine Design 14:78+ Je '42

Steel for planes; aluminum replacement in all noncombat aircraft. Business Week p65-6 Ap 4 '42

Steel-plywood trainer. il Mod Plastics 19:45+ Je '42

Strength of plastic-bonded plywood. G. B. Parsons. bibliog il diags Mod Plastics 19:74-9, 110, 112+ Ag '42; Same. Aero Digest 41:160, 162, 165+ Jl; 140+ Ag '42

Structural plastics in aviation. J. B. Johnson. il diags Mod Plastics 19:179-81+ N '41; Same cond. Aviation 41:103-4+ F '42

Substitutes for rubber and silk; Colonial V plastics. E. Engel and J. Steel. Aero Digest 40:212, 214 My '42

Synthetic resins in construction. H. N. Haut. il diags Aviation 41:84-5 Mr; 103, 105+ Ap '42

Technical problems of applying plastics and allied products in naval aircraft. H. Sang. Mod Plastics 19:44a-44c My '42

Tenth annual meeting of the Institute of the aeronautical sciences; review of technical papers. A. Klemin. J Aeronautical Sci Aeronautical R Sec 9:12-15 Mr '42

Tooling for plastic-bonded aircraft. W. D. Lewis. diags Automotive & Aviation Ind 87:32-4+ Ag 15 '42

Training planes built with low alloy steel; plywood fuselage. il Iron Age 149:68A-68C Ap 2 '42

Use of glue in wooden aircraft. J. G. MacDermot. Aero Digest 41:186+ Jl '42

Use of plastics and allied materials in aircraft construction. G. W. DeBell. J Aeronautical Sci 9:341-9 Jl '42; Same. Engineer 174:242-4, 265-6 S 18-25 '42

Use of steel and wood conserves aluminum. il Aero Digest 40:127-8, 130+ My '42; Abstract. Metals & Alloys 15:1048+ Je '42

Uses of plywood in aircraft. T. D. Perry. il diags Aero Digest 41:200, 205-6 Jl '42

Vague specifications for surface quality hamper aircraft production. C. F. Nagel, jr. il Metal Prog 41:323-9+ Mr '42

Vibration fatigue tests for seam-sealing compounds for use in high altitude, pressurized aircraft units. R. L. McFarlan. il diags Aero Digest 41:211-12+ S '42

Victory trainer; high-speed training planes of plastic-bonded plywood save precious aluminum for America's bombers and fighters. il Mod Plastics 19:42-3 Ja '42

Vidal process for molded structures. E. E. Miller. il Aviation 41:124-7+ O '42

Welding method makes all-magnesium planes possible; abstract. T. E. Piper. Chem & Eng N 20:930 Jl 25 '42

Wood-plastic airplane parts. C. L. Bates. il Aviation 41:82-3+ Ja '42

Working transparent plastics. J. Sasso. il diags Aviation 41:86-7+ My; 105, 107, 109+ Je '42

X-ray inspection and supplementary technique. H. M. Muncheryan. il Aviation 41:84, 184+ Ja '42

X-ray of aircraft castings, its control and value. B. C. Boulton. J Aeronautical Sci 9:271-83 Je '42

See also

Airplane fabrics

Steel, Aircraft

Model testing

How to obtain compact and powerful adjustable-speed drive; water-cooled motor operating on high-frequencies; testing model propellers. C. C. Clymer. il Gen Elec R 44:599-600 N '41; Same cond. Aero Digest 39:197+ D '41

New two-parameter model suspension system for the Galcit 10-ft. wind tunnel. A. L. Klein, P. V. H. Serrell and C. B. Millikan. il diags J Aeronautical Sci 9:302-8 Je '42

Models

See Airplane models

Painting

Automatic spray painter releases 10 men; Glenn L. Martin company. il Aero Digest 41:157-8 Jl '42; Same. Metal Finishing 40:510 S '42

Present status of aircraft finishes. M. A. Coler and E. De Nio. Aero Digest 41:254+ Jl '42

Robot painter speeds production. il Aviation 41:133 Ag '42

Rolls apply paint to aircraft parts. il Am Mach 86:730 Jl 9 '42

Testing finishes for plywood surfaces. A. B. Marsh. il Aero Digest 41:174, 176, 178+ S '42

Ventilating system supplies 700,000 cfm for spray painting bomber planes. il Heating-Piping 14:674 N '42; Same. Aero Digest 41:201+ N '42

World's biggest spray booth for bombers. il Metal Finishing 40:513-14 S '42

World's largest paint spray enclosures; painting planes at Southwest bomber plants; air conditioning system. il Metal Finishing 40:629+ N '42; Same. Sheet Metal Worker 33:50-2 N '42; Same. Nat Safety N 46:32+ D '42

AIRPLANES—*Continued*

Patents

Patents review. Aviation 41:105 Ja '42 [cont monthly]

Trend of invention. Published in monthly numbers of Aero digest

Performance

B.M.W. 801 air-cooled radial (performance data); abstract. Roy Aeronautical Soc J 46:sup291 Ag '42

Kinetic energy correction to predicted rate of climb. F. C. Phillips. bibliog J Aeronautical Sci 9:172-4 Mr '42

Private ownership

Personal aircraft; helicopter. Business Week p16 S 26 '42

Private flying and the war. Aviation 41: 150+ Mr '42

See also
Airplanes, Light

Radio equipment

See Radio apparatus on aircraft

Sealed compartments

Lockheed pressure chamber; testing pressurizing equipment for high altitude flight. F. P. Dillon, W. Doble and H. A. Greenwald. il diags Aeronautical Eng R 1:13-15 S '42

Vibration fatigue tests for seam-sealing compounds for use in high altitude, pressurized aircraft units. R. L. McFarlan. il diags Aero Digest 41:211-12+ S '42

Seats

Airplane pilot seats. il Mod Plastics 19:48-9+ Ag '42

Size

See also
Airplanes, Light

Specifications

Aviation's civil aircraft specifications; tabulation. Aviation 41:203-6 F '42

Aviation's foreign airplane specifications; tabulation. Aviation 41:209-12 F '42

Aviation's military aircraft specifications; tabulation. Aviation 41:207-8 F '42

German military airplanes; tabulation. il Automotive & Aviation Ind 86:90-1 Mr 15 '42

Speed

Aircraft speed dependent upon engine characteristics. W. Stepniewski. Aero Digest 40: 214, 216, 218+ Mr '42

Effect of a high speed dive on the aircraft power plant; tr. by L. J. Baker. il diags Roy Aeronautical Soc J 46:93-106 Ap '42

Simple method of applying the compressibility correction in the determination of true air speed. W. C. Schoolfield. bibliog J Aeronautical Sci 9:457-64 O '42

Useful reference tables; airspeed-pressure tables. Instruments 15:213-14 Je '42

Spinning

How to prevent low altitude stalls and spins. Civil Aero J 2:316 D 15 '41

Stalling

Visualizing wing stall characteristics; use of moving pictures. il Aero Digest 41:208 S '42

Standards

Aspects of practical standardization. B. C. Boulton. il Aero Digest 39:217-22 D '41

Practical rivet standardization. L. J. Fila. diags Aero Digest 40:131-2, 134, 136, 187 Je '42

Standard air parts. Business Week p41 N 22 '41

Surface roughness controlled by use of aircraft standard. J. W. Borgquist. il diags Product Eng 13:638-40 N '42

See also
Airplane engines—
  Standards

Tail surfaces

Prediction of downwash and dynamic pressure at the tail from free-flight measurements; abstract. E. Eujen. Aeronautical Eng R 1:93 Ag '42

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

Vector methods of flutter analysis. W. M. Bleakney and J. D. Hamm. bibliog J Aeronautical Sci 9:439-51 O '42

Take-off

Approximate method to predict the transition or flare flight path in the take-off or landing of an airplane. O. Welling. J Aeronautical Sci 9:17-23 N '41

C.A.B. safety bulletin discusses take-offs following forced landings. A. N. Troshkin. Civil Aero J 2:287+ N 15 '41

Testing

Electronic temperature recorder contributes to aviation developments; primarily a flight recorder. il Electronics 15:114+ N '42

Flight testing equipment for large aircraft; abstract. W. T. Dickinson. S A E J 50: sup37 N '42

Measuring the elastic airplane. W. W. Bender, jr. il Instruments 15:96-7+ Ap '42

Photographic measuring devices developed in 2 C.A.A. projects; equipment used for aircraft certification. Civil Aero J 2:289+ N 15 '41

Space-time recorder; drop testing of landing gear. F. N. M. Brown. J Aeronautical Sci 9:290-2 Je '42; Excerpts. Instruments 15:310-11 Ag '42

See also
Airplanes—Model
  testing
Wind tunnels

Tie rods

Relief of residual stress in streamline tie-rods. R. E. Pollard and F. M. Reinhart. bibliog pls J Research Nat Bur Stand 28: 755-72 Je '42

Vibration

Airplane vibration tests as related to the flutter problem. C. B. Lyman. J Aeronautical Sci 9:24-30 N '41

Measuring the elastic airplane. W. W. Bender, jr. il Instruments 15:96-7+ Ap '42; Abstract. Franklin Inst J 234:62 Jl '42

Mechanical impedance of damped vibrating systems. R. G. Manley. diags Roy Aeronautical Soc J 45:342-8 N '41

Vibration characteristics of three- and four-blade propellers for high-output engines. R. M. Guerke. S A E J 49:544-52 D '41

Vibration fatigue tests for seam-sealing compounds for use in high altitude, pressurized aircraft units. R. L. McFarlan. il diags Aero Digest 41:211-12+ S '42

See also
Airplane engines—
  Vibration
Airplane wings—
  Flutter

Weight

Engineering progress and cost control; relationship between the respective functions of cost and weight control. E. E. Roberts. Aero Digest 40:188, 191+ My '42

Importance of weight control in airline operation. C. Froesch. il Aviation 41:201-2+ Ag '42

Organization for weight control. J. E. Ayers. Aero Digest 41:166, 168+ Jl '42

Pinned-pinned slender solid struts with parabolic taper. F. J. Turton. Roy Aeronautical Soc J 46:146-51 Je '42

Seal of weight approval as a means of weight control. S. Siggia. il diag Aero Digest 41: 169-70+ S '42

Value of a pound saved by weight control. J. E. Ayers. Aero Digest 41:108, 111, 113-14+ O; 238+ N '42

AIRPLANES—Weight—*Continued*

Will accessories impede payload? L. R. Hackney. Aero Digest 40:138+ Je '42; Abstract. Automotive Ind 86:34-5 Ja 15 '42

See also Society of aeronautical weight engineers

Windshields

Impact resistant windshields; abstract. A. L. Morse. Automotive & Aviation Ind 86:43 Ag 1 '42

AIRPLANES, Amphibian

See also

Seaplanes

AIRPLANES, Freight

After the war: air cargoes; glider trains operating on regular schedules. M. K. Powers. il Adv & Sell 35:22-3+ Jl '42

Air cargo controversy. R. E. Saunders. Aero Digest 41:112+ S '42

Air carriers hold war key; to fly men and materials. Aero Digest 41:329+ Jl '42

Can Kaiser do it? Business Week p34+ Ag 22 '42

Cargo plane plans involve huge aviation fuel demand. Nat Pet N 34:28 Ag 19 '42

Cargo planes hold hope for transport of supplies and munitions to far-flung battlefronts. il Steel 111:66+ Jl 6 '42

Cargo planes of the future. A. Klemin. Sci Am 167:36 Jl '42

Dismissed as fanciful are the proposals by certain shipbuilders to bridge Atlantic with aircraft instead of ships. il Steel 111:60+ Ag 3 '42

Engineering problems of air cargo transportation. R. D. Kelly and W. W. Davies. S A E J 50:492-8 N '42; Same cond. Aero Digest 40:110, 159-68 Ap '42; Excerpts. Heating-Piping 14:297 My '42; Abstract. Automotive & Aviation Ind 86:34-5 My 15 '42

Freight takes to the air; trends and developments, with cost data. R. Der Tatevasion. il Iron Age 149:47-53 F 26 '42

Gliders' chance; army to give air cargo tows full-scale test. Business Week p65 Jl 4 '42

Kaiser plan is really a call for a new raw-material program. E. Janeway. Fortune 26:184+ S '42

Mighty Mars; huge cargo planes will play a leading role in after-the-war world economic developments. A. Klemin. il Sci Am 167:182-3 O '42

OPA vs. Kaiser. Business Week p27-8 S 5 '42

1,000 steel planes for South America. Business Week p86-7 N 15 '41

Planes vs. ships; big air freighters can be built now only at expense of other war equipment. il Business Week p24+ Ag 1 '42

Practical considerations on the use of cargo gliders. A. S. Ogden. il diags Aero Digest 41:139-40, 142 O '42

Supplies by air; U.S. already has a dozen cargo carriers. il Business Week p16-17 Ag 22 '42

Tomorrow: flying freight trains; postwar revolution in aviation. il diags Business Week p18-19 Je 6 '42

Troopship of the sky; cargo planes of the United States army; Curtiss Commando. A. Klemin. il Sci Am 167:230-1 N '42

War for the skies: we must ship by air; offers speed, safer routes, and huge savings in materials. il maps Fortune 26:84-9+ Ag '42

See also

Air express service

Air lines—Freight service

Airplanes in mining

AIRPLANES, Industrial

CAP Courier-cargo service passes experimental stage; carries personnel and material for airplane manufacturers. il Aviation 41:215 Ag '42

Patrolling of natural-gas pipe lines by airplane. C. B. McMahan. Gas Age 89:22-3+ My 21 '42

See also

Airplanes in mining

AIRPLANES, Light

Controllable pitch propellers for light airplanes. W. E. Burnham. diags Aero Digest 40:224, 226, 228 Mr '42

Cooling characteristics of submerged light aircraft engines. H. H. Ellerbrock, jr. il S A E J 50:7-14 Ja '42

Current problems in light airplane engines. R. S. White. bibliog S A E J 50:141-59 Ap '42

Development of the Ercoupe for simplified private flying. F. E. Weick. il diags S A E J 49:520-31 D '41

Ercoupe light airplane; illustrations. Aero Digest 41:160-1 S '42

Franklin-powered monocoupe model 90AF. il diags Aero Digest 39:236 D '41

Lightplane design and development; abstract. O. C. Koppen. S A E J 50:371-2 Ag '42

Light plane engines and their fuel problems. C. T. Doman. il diags S A E J 50:188-95 My '42

Light plane maintenance. D. C. Dobbyn. il Aviation 40:73, 216 D '41

Light planes at war. W. Strohmeier. il Aviation 41:138, 141+ Mr '42

Materials and labor, chief problems confronting light plane builders. D. L. Zacharias. Steel 110:44-5 Ja 19 '42

Military uses for light aircraft. I. H. Taylor. il Aero Digest 40:96, 98+ Ap '42

Security Airster with folding wing arrangement. il Aviation 41:150 Ap '42

Skyfarer; only two controls, plus tricycle nose gear. il Sci Am 166:98-9 F '42

Small plane and its powerplant; abstract. W. B. Stout. S A E J 50:101 Mr '42

Swift GC-1 light monoplane. il diags Aero Digest 40:230 My '42

AIRPLANES, Military

Air policy and defense; problems associated with operation of American aircraft in warfare. E. Warner. il Aviation 40:48-9, 186+ D '41

Aircraft armor made faster, tougher; Breeze process. il Aviation 41:120-2 S '42

Aircraft design and combat performance. N. F. Silsbee. il S A E J 50:sup49-56 N '42

Aircraft industry is doing its job. D. W. Douglas. il Automotive & Aviation Ind 87:97-100, 102+ O 1 '42

Aircraft production number. il diags Mach 48:133-214 Jl '42

Aircraft spotter. L. Ott. 64p pa $1 Harcourt '41

Aircraft spotters' guide. H. E. Hartney, ed. 96p pa 25c Nat. aeronautics council. New York '42

Airplane facts; army hits back at critics. Business Week p20+ S 19 '42

Airplane performance and strategy; abstract. J. C. Hunsaker. Aeronautical Eng R 1:58+ Ag '42

Airplane production goes to war. il Manuf Rec 111:28-9+ Je '42

Alexander Kartveli responsible for creation of high-power pursuit ship now in production. Steel 111:60+ Ag 17 '42

Allied and enemy aircraft. E. Sargent, ed. 143p $2.75 Ryerson press '41

American aircraft for the R.A.F. il(p490) Engineering 152:487 D 19 '41

American aircraft training in the RAF; centers for preparing RAF maintenance and flying personnel to work with the American airplanes. M. C. Cave. il Aviation 41:94-5+ Jl '42

American airmen and aircraft; what they think of them abroad. Iron Age 150:56-7 O 15 '42

American airplanes on the European battlefronts. M. V. Cave. il Aviation 41:54-5+ Mr '42

American military aircraft; abridged specifications and other data; miniature plans. il Aviation 41:160-83 F '42

Armament of big bombers. J. I. Waddington. il Aero Digest 41:226, 229 O '42

Automotive participation in aviation production; chart. S A E J 50:sup32 Ja '42

Auxiliary power vital today; Lawrance produces compact 15 hp. auxiliary power plant for warplanes. B. Reynolds. il diags Aviation 41:112-15+ S '42

AIRPLANES, Military—*Continued*

Aviation's foreign airplane specifications; tabulation. Aviation 41:209-12 F '42

Aviation's military aircraft specifications; tabulation. Aviation 41:207-8 F '42

Basic theory of the dive bomber. diags Aero Digest 41:210, 212 O '42

Boeing B-17E heavy bomber. il diags Aero Digest 40:138 Ap '42

Bomber engines by Buick. il Aero Digest 40: 105-6 My '42

Bomber plan no.3. Business Week p29-31 Ja 17 '42

Bombers. C. G. Grey. 252p 6s Faber & Faber, London '41

Bombers on parade; Consolidated aircraft corporation's new conception of mobile assembly. J. M. Gwinn, jr. il diags Am Mach 86:659-74 Je 25 '42; Same. Aviation 41:98-103+ Jl '42

British service teams study American aircraft. il Aviation 40:70+ D '41

Building the B-24. R. H. Fleet. il Aviation 41:66-9+ Ja '42

California manufacturers' contribution to the war. C. E. Branshaw. Aero Digest 40: 74+ Ja '42

Carburized armor plate for aircraft; liquid carburizing and press quenching; Breeze corp. il Iron Age 148:56-8 N 13 '41

Closeups of Douglas B-19 bomber; illustrations with descriptive text. Automotive Ind 85:44-5 D 1 '41

Comfortization of military aircraft. A. A. Arnhym. bibliog il diags Aero Digest 40: 188+ Je; 41:220, 223-4, 226+ Ag; 149-50, 153-4+ O; 202+ N '42

Curtiss Commando in quantity production. il Aero Digest 41:184+ S '42

Decisive factor in the war. Barron's 22:1 My 25 '42

Design of high-speed military airplanes. C. L. Johnson. il diags J Aeronautical Sci 8: 467-74 O '41; Same. Engineer 172:392-3, 420-1, 432-3 D 5-19 '41

Douglas C-54, the Nation's largest army transport. il Automotive & Aviation Ind 86:38-9 Ap 1 '42

Fighting planes of the world. B. A. Law. new & rev ed 72p $1 Random house, 20 E. 57th st, New York '42

Fire power of allied planes. J. I. Waddington. il Aero Digest 40:143+ Ap '42

Flying Fortress, facts and illusions. il Iron Age 149:66 Je 18 '42

Flying tank busters. J. I. Waddington. il Aviation 41:191+ Je '42

Future of water-based airplanes. F. T. Courtney. il diags Aviation 41:91-3+ Jl; 93-5+ Ag; 116-19+ S; 122-3+ O; 122-3+ N '42

Glenn L. Martin co.; builder of bombers. S. Altschul. Barron's 22:7 Ja 26 '42

Gliders joining the fight. il Aviation 41:101+ S '42

Growth of fire power in navy planes. J. B. Hancock and E. Burton. il Aero Digest 40: 70-1+ F; 64-5+ Mr '42

Handicapping our fighter planes by overloading. Aero Digest 41:114+ S '42

History of combat airplanes. C. G. Grey. 158p pa $1 Norwich univ, Northfield, Vt. '41

Horsepower is war power; how American industry is powering our military machine. C. F. Kettering. il Sci Am 167:4-8 Jl '42

How Airacobras are built. O. L. Woodson. il diags plan Am Mach 85:1145-60 N 12 '41

Improvements in military planes now seen as aid to future civil aircraft; NACA annual report. Civil Aero J 3:33+ F 1 '42

Increasing bulk and horsepower of radial warplane engines prove worth of propeller cuffs and superchargers. il diag Steel 111: 58, 60 O 12 '42

Inspecting Martin bombers; illustrations. Automotive & Aviation Ind 87:34-5 Jl 15 '42

Keep 'em flying, abroad. A. L. Fornoff. il Aviation 40:60-1+ D '41

Kinetic energy correction to predicted rate of climb. F. C. Phillips. bibliog J Aeronautical Sci 9:172-4 Mr '42

Light planes at war. W. Strohmeier. il Aviation 41:138, 141+ Mr '42

Manta long-range fighter, with Davis wing. il Aero Digest 40:248+ Mr '42

Martin Mars patrol bomber. il Aero Digest 41:194 Ag '42

Metallurgy of aircraft engines; German report on captured airplanes. Iron Age 148: 33-40 D 25 '41

Military aeroplane. E. C. Shepherd. 32p pa 10c Oxford '41

Military aircraft types; army and navy; tabulation. Aviation 41:91 F '42

Military airplanes of the future. il Aero Digest 40:52-4, 56 F '42

Military uses for light aircraft. I. H. Taylor. il Aero Digest 40:96, 98+ Ap '42

Molded ammunition rollers; Curtiss P-40, carrying .50 calibre machine guns. C. Marquardt. il Mod Plastics 19:40-1, 124+ Ag '42

Mustangs in service with the RAF. Iron Age 150:53 N 5 '42

Navy's Avenger lives up to name; new Grumman torpedo bomber. il Aviation 41:90 Jl '42

Navy's seventy ton Mars. il Manuf Rec 111: 27+ Jl '42

One man: one wrench: one hour; simplified engine design for easier maintenance of military planes. W. B. Stout. il diags Aero Digest 40:67-8+ Je '42

Part plastics are playing in the British war program and our interest in American plastics program. H. Self. Mod Plastics 19: 44d-44f My '42

Plywood can take it! O. W. Timm. il Automotive & Aviation Ind 87:104+ O 1 '42

Producing landing gear struts for the P-38. W. G. Wood. il Aviation 41:74-7+ Ap '42

Production report to the Nation. J. H. Jouett. il Aviation 41:72-3+ My '42

Progress in airplane design during 1941. A. E. Raymond. il Aeronautical Eng R 1:7-10 My '42

Progress of our aviation program. D. W. Harter. il Aero Digest 40:127+ Mr '42

Raiders; our navy comments on fighting planes. A. Klemin. il Sci Am 167:36-7 Jl '42

Relative characteristics of enemy aircraft. Engineer 173:330 Ap 17 '42

Report from our British correspondent. J. W. Morrison. il Aero Digest 40:87+ Je '42

Report from the British airfront; new military airplane and engine developments. M. V. Cave. il Aviation 41:191, 193, 195 Ag '42

Seal of weight approval as a means of weight control. S. Siggia. il diag Aero Digest 41:169-70+ S '42

Ships and aircraft of the United States fleet. J. C. Fahey. war ed 64p pa $1 Ships and aircraft, 1265 Broadway, New York '42

Smart tooling spurs the Mustang. G. Stroh. il Am Mach 86:905-11 Ag 20 '42

Soil-cement runways for heavy bombers. C. H. McLaughlin. il Eng N 128:366-7 Mr 5 '42

Some observations on the military service requirements of transparent plastics; abstract. W. F. Bartoe. J Aeronautical Sci 9:74 D '41

Steel and wood design for North American combat training planes. il Automotive & Aviation Ind 86:34-5+ My 1 '42

Tactical requirements of pursuit aircraft design. M. P. Stroyev. diags Aero Digest 40:204, 206+ Mr '42

Technical problems of applying plastics and allied products in naval aircraft. H. Sang. Mod Plastics 19:44a-44c My '42

Thunderbolt; new interceptor. A. Klemin. il Sci Am 166:205 Ap '42

Thunderbolts to smite the Axis; Republic P-47 high-altitude fighter. H. E. Lasker. il Aviation 41:100-5+ Ag '42

Tokyo and return; fabric-filled phenolic loop antenna housing for bombers. H. M. Richardson. il Mod Plastics 19:42-3+ Ag '42

Truth about our fighter planes and bombers. il Aviation 41:93-7+ O '42

U.S. army and navy aircraft; illustrations and short descriptions. S A E J 50:sup40-5 N '42

United States army and navy airplanes; illustrations and brief descriptions. Automotive & Aviation Ind 86:50-3 Mr 15 '42

U.S. fighter planes seen as most versatile. Iron Age 150:126-8 O 22 '42

AIRPLANES, Military—*Continued*

Use of steel and wood conserves aluminum. il Aero Digest 40:127-8, 130+ My '42

Vega built Flying Fortresses; illustrations. Automotive & Aviation Ind 87:45 Ag 1 '42

War for the skies: offensive by bomber. il Fortune 26:54-9, 161-2+ Jl '42; Discussion. A. P. De Seversky. 26:40 S '42

War planes of the Axis. D. C. Cooke. 256p $2.75 Robert M. McBride & co, New York '42

War production number. il diags Aviation 41: 98-223 Jl '42

What is that aeroplane? E. Sargent, ed. 62p $2 Ryerson press '41

What's that plane? the handbook for practical aircraft identification. W. B. Pitkin, jr. 189p pa 25c Infantry journal, Washington, D.C; Penguin books, New York '42

Will accessories impede payload? L. R. Hackney. Aero Digest 40:138+ Je '42

Will tomorrow's warplanes look like these? il Automotive & Aviation Ind 86:30-1+ F 1 '42

Wing tips. Published in weekly numbers of Steel

Wings for offense. B. Leyson. 218p $2.50 Dutton '42

See also

Armor plate

Guns, Aircraft

Drawings

British Halifax II bomber; with detailed drawings. M. W. Bourdon. Automotive & Aviation Ind 86:20-4+ Je 15 '42

British 1600 hp Bristol Hercules engine, German 1270 hp DB V engine; and British Handley-Page Halifax II; drawings. Aero Digest 40:126, 128 Je '42

Consolidated Catalina flying boat; cutaway drawings. il Aero Digest 41:152-3 Ag '42; Automotive & Aviation Ind 87:30-1 Ag 15 '42

Short Stirling, England's largest bomber. Automotive & Aviation Ind 86:22-3 Ap 15 '42

Short Stirling heavy bomber; diagrams. Automotive & Aviation Ind 87:30-3 Jl 15 '42

Standards

Army-navy aeronautical standardization. D. G. Lingle and G. A. Seitz. diag S A E J 50:sup32-3, 66-80 N '42

Canada

Canada's aircraft industry. J. Montagnes. il Aviation 41:96-7+ Ag '42

Servicing Canadian Kinners. C. Sander. il Aviation 40:75+ D '41

Germany

Analysis of German warplane construction. H. L. Brownback. il diags Automotive & Aviation Ind 86:20-3+ My 15 '42

BMW 801A aircraft engine. il diags Automotive & Aviation Ind 87:20-4 O 15 '42 (to be cont)

Behind the luftwaffe; over one-third of Germany's Henschel Hs-126 observation plane is made of metal stampings. P. H. Wilkenson. il Am Mach 86:26-30 Ja 8 '42

Design features of the Junkers 211B aircraft engine. S. Oldberg and T. M. Ball. il diags S A E J 50:465-83 N '42; Abstract. Automotive & Aviation Ind 86:18-21 Ap 1; 40-6+ Ap 15 '42

Dornier armoring examined. Iron Age 150:53 N 12 '42

Effect of a high speed dive on the aircraft power plant; tr. by L. J. Baker. il diags Roy Aeronautical Soc J 46:93-106 Ap '42

Enemy aircraft photographic equipment. F. Postlethwaite. il diag Engineering 153:441-3 Je 5 '42

Fire power, range and gun arcs of currently active German aircraft; cutaway drawings. Aviation 41:196-7 Ag '42

Five German planes: cutaway illustrations. Aeronautical Eng R 1:39-41 Jl '42

Focke Wulf FW 190. M. W. Bourdon. il Automotive & Aviation Ind 87:34-5 S 15 '42

F.W. 190 fighter. Engineer 173:329 Ap 17 '42

Focke-Wulf 190 fighter. il diag Engineer 174: 137-8 Ag 14 '42

Focke-Wulf FW-190A3. il diags Aviation 41: 233+ O '42

Focke-Wulf FW 190A3. il Iron Age 150:39-40+ O 8 '42

German aircraft; illustrations. Aviation 41: 57-9 Ap '42

German F.W. 190 fighter. il Engineering 154: 137 Ag 14 '42

German military airplanes; tabulated specifications. il Automotive & Aviation Ind 86: 90-1 Mr 15 '42

Germany's new Dornier 217E warplane. M. W. Bourdon. il diags plans Automotive & Aviation Ind 87:18-22 Jl 15; 34-9 Ag 1 '42

Hitler's latest weapon; water-based torpedo plane. F. Lamoreux. il Aviation 41:243+ Jl '42

Junkers Ju-88-A6 bomber. diags Aero Digest 40:255+ My '42

Nazi aircraft radio. J. H. Jupe. il Electronics 15:58-9+ N '42

Pratt & Whitney twin wasp spawns the Focke-Wulf 190 motor. il Iron Age 150:54 S 17 '42

Sketch book of design detail; Messerschmitt Me 10. diags Aviation 41:144-5 My '42

Structure of German aeroplanes. diags Engineer 173:125-7 F 6 '42

Great Britain

Aeronautics in 1941. il Engineer 173:4-6, supp 2 Ja 2 '42

American machine tools have big role producing British single sleeve valve aircraft engines. il Automotive & Aviation Ind 86: 18-22+ Mr 1 '42

Avro-Lancaster, Britain's newest heavy bomber. M. W. Bourdon. il Automotive & Aviation Ind 87:18-19 S 15 '42

Avro Lancaster heavy bomber. il Engineer 174:129-30, 156-9 Ag 14-21 '42

Avro Lancaster heavy bomber. il Engineering 154:127, 130 Ag 14 '42

Avro Manchester heavy bomber. il Engineer 173:474-5 Je 5 '42

Avro Manchester heavy bomber. il Engineering 153:465, 470 Je 12 '42

Avro Manchester twin-engine bomber. il diags Aero Digest 40:209 F '42

Bell Airacobra I in Britain. diags Automotive Ind 85:38 D 15 '41

Bomber-fighter; new dual-purpose plane used by British. Sci Am 166:288-9 Je '42

Boulton-Paul Defiant two-seater fighter. il diags Aero Digest 40:144+ Ap '42

Boulton Paul Defiant two-seater fighter. il diags supp Engineer 173:144-6, 156-8, 165-7 F 13-27 '42

Bristol hydraulically-operated aeroplane gun turret. il(p450) Engineering 152:446-7 D 5 '41

Britain's Bristol Beaufighter I. diags Automotive Ind 85:28-9 N 15 '41

Britain's new heavies. il diags Aviation 40: 104-5, 218 D '41

Britain's Rolls-Royce Merlin XX engine. M. W. Bourdon. il Automotive & Aviation Ind 86:36-7 My 1 '42

British aircraft; photos and silhouettes. Aviation 41:77-9 My '42

British Defiant night fighter. M. W. Bourdon. il diags Automotive & Aviation Ind 86:18-19+ My 15 '42

British glider training. il Aviation 41:203 S '42

British Halifax II bomber; with detailed drawings. M. W. Bourdon. il Automotive & Aviation Ind 86:20-4+ Je 15 '42

British night guardians; Boulton Paul Defiants. il Aviation 41:201+ S '42

De-icing equipment of a Dornier bomber. diags Engineer 174:6-8 Jl 3 '42

Development of Bristol aircraft gun turrets. il Engineer 172:357-8 N 21 '41

Giant bombers in the R.A.F. il Automotive Ind 86:32-3 Ja 15 '42

Handley Page Halifax. il Aviation 41:211+ Ag '42

Handley-Page Halifax heavy bomber. il diags Aero Digest 40:247 Mr '42

AIRPLANES, Military—Great Britain—*Cont.*

Handley Page Halifax heavy bomber. il diags supp Engineer 173:344-6, 364-6 Ap 24-My 1 '42

Handley Page Halifax heavy bomber. il Engineering 153:347-8, 350 My 1 '42

Handley Page Hampden medium bomber. il diags Aero Digest 41:195-6 O '42

On the Libya battlefront; illustrations. Automotive Ind 86:18-19 Ja 15 '42

Short Stirling bomber. il diags Aero Digest 40:147-8, 153-4 Ap '42

Short Stirling bomber; detail drawings. Aero Digest 40:156, 158, 160 My '42

Short Stirling, England's largest bomber; with detailed drawing. il diags Automotive & Aviation Ind 86:20-7 Ap 15 '42

Short Stirling heavy bomber. il supp Engineer 173:95-7, 123-4 Ja 30-F 6 '42; Excerpts. Engineering 153:107-8, 110 F 6 '42

Short Stirling heavy bomber; cutaway drawing. Aviation 41:147 My '42

Short Stirling heavy bomber; diagrams. Automotive & Aviation Ind 87:30-3 Jl 15 '42; Aero Digest 41:174-6 Jl '42

Spitfire V fighter in production. il diags Automotive & Aviation Ind 87:36-9+ Ag 15; 34-7+ S 1 '42

Tactics and unorthodox aircraft. O. Stewart. il Aviation 41:76-7 Je '42

Westland Whirlwind. il diag Aviation 41:203+ My '42

Westland Whirlwind fighter. il diags Aero Digest 40:237 My '42; Automotive & Aviation Ind 86:25 My 15 '42

Italy

Enemy aircraft photographic equipment. F. Postlethwaite. il diag Engineering 153:441-3 Je 5 '42

Italian aircraft; illustrations. Aviation 41:78-9 Je '42

Japanese and Italian military aircraft; tabulated specifications. Automotive & Aviation Ind 86:43 My 15 '42

Japan

Aircraft used by the Japanese air forces. diags Aero Digest 40:160, 163, 187 Je '42

Amazing imitators; revealed by Jap wrecks at Pearl Harbor. il Product Eng 13:504-7 S '42

Design details of the Mitsubishi Kinsei engine. W. G. Ovens. il Aviation 41:110-17+ Ag '42

How good is the Jap air force? C. H. Day. il Aero Digest 40:58-9+ Ja '42

Jap Zero fighter. il Automotive & Aviation Ind 87:19+ Ag 1 '42

Jap Zero fighter shows Nipponese copying ability. il Aviation 41:213 Ag '42

Japanese aircraft; illustrations. Aviation 41:60-1 Mr '42

Japanese and Italian military aircraft; tabulated specifications. Automotive & Aviation Ind 86:43 My 15 '42

Japanese Mitsubishi 00 aircraft. Iron Age 150:48 Jl 2 '42

Mitsubishi Kinsei engine. W. G. Ovens. il Automotive & Aviation Ind 87:22-5+ Jl 1 '42; Abstract. Iron Age 150:61 Jl 2 '42

Russia

Airplane descriptions. Aeronautical Eng R 1:37 S '42

New airplanes of the Red air fleet. il Automotive & Aviation Ind 86:38-9 Je 15 '42

Red air power grows despite labor handicap. il Iron Age 150:92-3 Jl 23 '42

Russian military aircraft. M. W. Bourdon. il Automotive & Aviation Ind 87:40-2+ Ag 15 '42

Russian Sturmovik; rocket aerial bombs. Iron Age 150:48 Jl 2 '42

Russia's modern military aircraft. J. H. Stevens. diags Aero Digest 41:157-8, 161+ O '42

Typical Soviet aircraft. il Aviation 41:100+ S '42

AIRPLANES, Military transport

Air carriers hold war key; to fly men and materials. Aero Digest 41:329+ Jl '42

Planes to rescue; army and navy transport commands bring back critical materials. Business Week p27-8 O 31 '42

Troop-carrying glider. il Aero Digest 40:299 Ja '42

Troopship of the sky; cargo planes of the United States army; Curtiss Commando. A. Klemin. il Sci Am 167:230-1 N '42

Utilizing air transports in tactical operations. G. A. Page, jr. Aero Digest 41:142-3+ S '42

AIRPLANES, Steam

Steam and rocket aircraft. Iron Age 149:62 Je 18 '42

Suggestions for the post-war steam aeroplane. Aeronautical Eng R 1:31 Je '42

AIRPLANES, Training

Aeronca Defender. il Aviation 40:110+ D '41

Builders of training planes substituting for critical metals and materials. Steel 111:62, 64 N 9 '42

Combat trainers from Texas plains; North American aviation, inc. H. F. Schwedes. il Mach 48:188-97 Jl '42

Curtiss new twin-engined trainer. il Aviation 40:110 D '41

Harlow PC-5A basic trainer. il Aviation 41:231 S '42

Menasco aids air corps training; new plant produces low-horsepower air-cooled engines. J. E. Babcock. il Am Mach 86:20-5 Ja 8 '42

Morrow aircraft company plastic-bonded wooden military type training airplane. J Aeronautical Sci Aeronautical R Sec 9:45+ D '41

Morrow plywood trainer. il Aviation 40:107 D '41

Morrow trainer; plastic-bonded plywood. il Aero Digest 39:231+ D '41

New Fairchild Cornell. il Aviation 41:209 Je '42

New Ryan PT-25; plastic-bonded plywood military trainer. il Aviation 41:235+ O '42

New Ryan PT-25 trainer built of nonstrategic materials. il Aero Digest 41:198, 201-2 O '42; Excerpts. Aeronautical Eng R 1:99+ O '42

Plywood bomber crew trainer; new Fairchild AT-13, built by Duramold process. il Aviation 41:225 S '42

Steel and wood design for North American combat training planes. il Automotive & Aviation Ind 86:34-5+ My 1 '42

Steel and wood replace aluminum; North American Aviation's pursuit trainer plane. il Machine Design 14:78+ Je '42

Tezuitlan primary trainer; mahogany plywood plane designed and built in Mexico. il Aviation 41:227-8 S '42

Training planes built with low alloy steel; plywood fuselage. il Iron Age 149:68A-68C Ap 2 '42

Transition trainers. il Aviation 41:201+ My '42

Two-place Waco UPF-7 biplane; drawings. B. Stone. Aero Digest 41:192-3 O '42

Use of steel and wood conserves aluminum. il Aero Digest 40:127-8, 130+ My '42

Victory trainer; high-speed training planes of plastic-bonded plywood save precious aluminum for America's bombers and fighters. il Mod Plastics 19:42-3 Ja '42

Wind simulator for the Link trainer. E. Shumate. il Instruments 15:209 Je '42

AIRPLANES in freight service. See Air lines—Freight service; Airplanes, Freight

AIRPLANES in mining

Aerial survey parties active in 1941, locating mineral areas and laying out pipe lines. W. E. D. Stokes, jr. Min & Met 23:65-6 F '42

Air freighting at Davao gold mines. A. H. Shoemaker. il Min Cong J 28:25-7+ Mr '42

AIRPORT buildings

Bridge travelers erect aircraft building; airplane repair buildings and hangars. il Eng N 129:108-9 Jl 16 '42

Combined hangar and office building, Denver airport. il diag Eng N 128:402-3 Mr 12 '42

Ready for defense; airport clubs can be ready rooms for civil air patrols. W. D. Strohmeier. il Aviation 41:146-7, 202+ Ja '42

AIRPORTS

Airport capacity imposes new problems on air transportation. A. Klemin. Sci Am 166: 300-1 Je '42

Airport construction and operation reference. 1942-1943 ed 80p pa $1 Occidental pub. co. 304 S. Broadway, Los Angeles '42

Airport development; abstract. D. H. Connolly. Eng N 127:744 N 20 '41

Airports multiply. Business Week p24+ Ja 24 '42

Building airports on New England's bogs. il diags Eng N 129:153-5 Jl 30 '42

Constructing the Whatcom County, Washington, airport. il Pub Works 73:24-5+ Mr '42

Construction of an airport for a college training program. A. R. Hollett. plan Pub Works 72:28, 30+ D '41

Designated landing areas as of March 5, 1942; list by states. Civil Aero J 3:92-4+ Ap 1 '42

Effect of airport development on value of adjacent real estate. 16p pa 50c Nat. assn. of assessing officers, 1313 E. 60th st, Chicago '41

Equipment for speed and profit in airport construction. J. C. Coyle. il Pub Works 73: 25-6+ Ap '42

Large airport building program continued as a defense measure. Eng N 128:5 Ja 1 '42

Maine being dotted with defense airports. il Comp Air M 46:6596-7 N '41

Planning for planes; standards. il diag plans Arch Rec 92:50-4 Jl '42

Recent improvements in airports vital to defense. il plan Aero Digest 39:77-8, 81-2+ D '41

WPA participation in airport improvement work. Eng N 127:883 D 18 '41

See also

Airport buildings
Airways
Aviation landing stations
Seaplane bases

Accidents

Crash procedure recommended for use at airports. Civil Aero J 3:133-4 Je 15 '42

Accounting

Standard accounting procedure suggested for use on airports. W. R. Graham, jr. Civil Aero J 3:90 Ap 1 '42

Cost

Airport construction, New York; unit prices. Eng N 129:388 S 10 '42

Airport paving, drainage and grading, Pennsylvania; unit costs. Eng N 129:120 Jl 16 '42

Chemung County airport, New York; unit prices. Eng N 128:380 Mr 5 '42

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:247-52 Ap 23 '42

Paving, Chemung County airport, New York; unit prices. Eng N 128:828 My 14 '42

Design

Airport planning for national defense. E. C. Kelton. il plans Civil Eng 11:718-21 D '41

Economic effects of airport size and airway deficiencies. A. E. Blomquist. Aeronautical Eng R 1:5-6, 9-10 O '42

Progressive designs for a major airport. A. B. Lambert. plans Aero Digest 39:56+ D '41

Some economics of airports. W. W. Pagon. bibliog Am Soc C E Proc 67:153-67 F '41; Discussion. 67:1273-7; 68:157-8 S '41, Ja '42

Drainage

Alert products manufacturer finds market for precast units for air base; drainage grids. diag Concrete 50:16+ O '42

Concrete catch basin grates for airport drainage; also precast mullions and manhole fittings. il Rock Prod 45:87+ O '42

Concrete pipes solve drainage problem at eastern airport. Concrete 50:4 Ap '42

Ditching with dynamite. il diags Explosives Eng 20:255-61 S '42

Drainage cannot be overstressed in airport construction. W. M. Aldous. il Can Eng R & B 79:24-6+ N '41

Drainage for an airplane repair depot. il diag Eng N 129:222-3 Ag 13 '42

Precast concrete catch-basin grates find market in airport runways. diags Concrete 50: 14-15 S '42

Runway inlets with gravel bottoms aid airport drainage. diag Eng N 129:316 Ag 27 '42

Three types of airport drainage. il diags plans Eng N 128:906-9 Je 4 '42

Willow Run airport. F. M. Reck. il Aero Digest 41:88, 90, 93+ Ag '42

Electric equipment

Electrification of the Chicago airport. H. W. Baumer. il diag Elec Eng 61:341-8 Jl '42

Equipment

Airport communications. Electronics 14:90+ N '41

New scheme of allocation classification symbols as applied to road, bridge and airport requirements; priorities system now effective in Canada. il Roads & Bridges 80:32-3, 70, 72+ Ag '42

Portable turntable for large aircraft wins approval. Civil Aero J 3:108 Ap 15 '42

Finance

Airport investments and operations shown in survey, 1939. chart Civil Aero J 3:60-1 Mr 1 '42

Fires and fire protection

Cardox airport fire truck. il Automotive & Aviation Ind 87:35+ Ag 15 '42; Aero Digest 41:106 Ag '42

Fire hazards and prevention in airports presents problems to engineers and underwriters. F. B. Quackenboss. Weekly Underw 145:1282-6 D 6 '41

Fire safety vital to future aviation. F. B. Quackenboss. Nat Underw 45:4+ N 6 '41

Kidde crash trucks. il Steel 111:88 Ag 24 '42

Insurance requirements

Airport liability policy. Spectator (Property ed) 7:23 F 5 '42

Laws and regulations

State airport legislation during year hits high mark. Civil Aero J 2:313+ D 15 '41

Lighting

Airport lighting. H. J. C. Pearson. il diags plan Elec Eng 61:119-25 Mr '42

Airport lighting in the United States and Europe. F. C. Breckenridge. il diags Illum Eng 36:1157-77; Discussion. 1177-83 D '41

Airport lighting system control. W. C. Norvell. il Aviation 41:205 Ag '42

Airport lighting; unit prices. Eng N 129:388 S 10 '42

Electrification of the Chicago airport. H. W. Baumer. il diag Elec Eng 61:341-8 Jl '42

Emergency repair cable for boundary lights explained. diag Civil Aero J 3:117 My 15 '42

Lighting at the Washington national airport. W. C. Norvell. il plan Aviation 41: 142-3, 198+ Ja '42

Method suggested for waterproofing contact lights. Civil Aero J 3:130+ Je 15 '42

Management

Airport management; problems aired in open discussion. Civil Aero J 3:36+ F 1 '42

Making the terminal airport pay; how LaGuardia field has ended its second year with a commendable financial record. il Aviation 41:145 Ja '42

Ready for defense; airport clubs can be ready rooms for civil air patrols. W. D. Strohmeier. il Aviation 41:146-7, 202+ Ja '42

Bibliography

Publications of interest to airport managers. Civil Aero J 3:60 Mr 1 '42

AIRPORTS—*Continued*

Military use

See also
Airports, Military

Municipal airports

See Airports, Municipal

Protection

Britain's auxiliary air bases. E. K. Harvey. Aviation 41:163 Ap '42

Records

Filling of arrival notices discussed. Civil Aero J 3:117-18 My 15 '42

Runways

Aids in maintaining airport runways. Civil Aero J 3:79+ Mr 15 '42
Airport planning for national defense. E. C. Kelton. il Civil Eng 11:720-1 D '41
Airports for hundred-ton bombers; need for scientific design for pavements on military flying fields. W. R. Macatee. il diags Roads & Bridges 80:16-18+ Jl '42
Big airbase paved in ninety days; 604,000 sq. yd. of concrete and 330,000 sq.yd. of asphaltic pavement. il diags Eng N 129:479-81 O 8 '42
Bituminous runway construction; Winnebago County airport, Oshkosh, Wisconsin; with cost data. J. C. Black. il Roads & Sts 85: 54+ O '42
Building airport runways of native soil and portland cement. C. G. O'Fiel. il Roads & Sts 85:29-34 S '42
Cement-treated base course takes hold on Pacific coast. il Concrete 49:8 D '41
Circus moves to Alaska; tent at Yakutat Bay, Alaska, protecting newly-laid concrete runways at army base. il Eng N 127:839 D 11 '41
Design of airport paving from the soil mechanics viewpoint. T. A. Middlebrooks and G. E. Bertram. il diag Civil Eng 12: 389-92 Jl '42
Explanation of many roadway and runway failures. H. C. Porter. Roads & Bridges 80: 84 O '42
Getting satisfactory results from airport paving. W. M. Aldous. il Can Eng R & B 79: 20-1+ D '41
Loess asphalt mix used for army airport paving. il diag Eng N 127:875-8 D 18 '41
Major improvement of St Louis airport for defense. W. J. Gray. il Civil Eng 12:152-3 Mr '42
Paving methods at an eastern airbase. il Eng N 128:12-13 Ja 1 '42
Paving runways at half a mile a day clip. il Eng N 129:18-19 Jl 2 '42
Progressive designs for a major airport. A. B. Lambert. plans Aero Digest 39:56+ D '41
Resistance of soft fill to static wheel loads. W. W. Pagon. il map Am Soc C E Proc 68:237-54 F '42
Skidding on asphalt runways raises paving question. Civil Aero J 3:130 Je 15 '42
Soil-cement base for airport runways. W. B. West. il Eng N 128:414-15 Mr 12 '42
Soil-cement runways for a large army airport. il diag Eng N 128:38-40 Ja 1 '42
Soil-cement runways for heavy bombers. C. H. McLaughlin. il Eng N 128:366-7 Mr 5 '42
Special runway for world's largest plane; Clover field, Santa Monica. R. D. Spencer. il Pub Works 73:19-20 Ja '42
Specifications for bituminous surfaces for highways and airport runways. il Pub Works 73:21-4 F; 26-34 Mr; 19-20, 36-9 Ap '42
Speed in placing concrete runways hastens completion of big airport. Concrete 50:46 F '42
Stabilizing soils for base courses and highway surfacing. L. D. Hicks. il Eng N 128: 248-53 F 12 '42
Tangent distances for runway intersections. J. L. Grimes, jr. Eng N 127:817 D 4 '41; Discussion. R. G. Davies. 128:81 Ja 15 '42
Wartime experience in runway clearance. T. Roberts. il diags Roads & Bridges 80:29-32+ O '42
Willow Run airport. F. M. Reck. il Aero Digest 41:88, 90, 93+ Ag '42

Sanitation

Sewage treatment plant for an airfield; Pendleton, Ore. il Pub Works 72:17 N '41

Snow protection and removal

Airport winter maintenance. A. E. Thomas. il Roads & Sts 84:62+ N '41
Army and Air force test Canadian-made snow blowers. il Roads & Bridges 80:36-8+ Mr '42
Fighting snow to keep 'em flying. H. W. Hunt. il map Eng N 129:641-52 N 5 '42
Thirty Roto wings and offset plows for R.C.A.F. airports. il Roads & Bridges 80: 38+ S '42
Wartime experience in runway clearance. T. Roberts. il diags Roads & Bridges 80:29-32+ O '42
Winter-maintenance methods for R.C.A.F. airfields. il Roads & Bridges 80:33-5, 100+ O '42

Surfaces

Big airbase paved in ninety days; 604,000 sq.yd. of concrete and 330,000 sq.yd. of asphaltic pavement. il diags Eng N 129:479-81 O 8 '42
Building an airport on a mud pie; Baltimore, Md. Pub Works 73:43 My '42
Fighting snow to keep 'em flying; surfaces for skis and wheels. H. W. Hunt. il Eng N 129:648-52 N 5 '42
Soils engineering features of Washington national airport construction. B. K. Hough, jr. il plan map Civil Eng 12:84-7 F '42
Tough, but not too tough! difficulties in airport construction on rock. il Roads & Bridges 80:21-4+ S '42

See also
Airports—Runways

Traffic control

Airport control console. il Electronics 15:54 Jl '42
Busy airport installs unique control console. W. W. MacDonald. il Aviation 41:189 Je '42
C.A.A. operating 35 airport traffic control towers. Civil Aero J 3:85+ Ap 1 '42

Canada

Airfields to the Arctic. il map Roads & Bridges 80:31-2+ Ja '42
Canada's extensive program of aerodrome construction. C. D. Howe. Roads & Bridges 80:99 F '42

AIRPORTS, Military
Airfields to the Arctic. il map Roads & Bridges 80:31-2+ Ja '42
Airport planning for national defense. E. C. Kelton. il plans Civil Eng 11:718-21 D '41
Airports for hundred-ton bombers; need for scientific design for pavements on military flying fields. W. R. Macatee. il diags Roads & Bridges 80:16-18+ Jl '42
Drainage for an airplane repair depot. il diag Eng N 129:222-3 Ag 13 '42
Interceptor command, Mitchel field. E. E. Halmos, jr. il Aviation 41:132, 135+ Ja '42
Kansas City's airport system. W. W. Brown. il Aviation 41:201-2+ Je '42
Men on the ground at Hamilton field. il Aviation 40:64-5 D '41
Metal igloos speed eastern airbase job. il Eng N 129:324-5 S 3 '42
Paving methods at an eastern airbase. il Eng N 128:12-13 Ja 1 '42
Sewage treatment plant for an airfield; Pendleton, Ore. il Pub Works 72:17 N '41
Soil-cement runways for a large army airport. il diag Eng N 128:38-40 Ja 1 '42
Use of dummies in the camouflage of operational aerodromes. E. Z. Yassin. il Roy Aeronautical Soc J 45:370-7 D '41

AIRPORTS, Military—*Continued*
Winter-maintenance methods for R.C.A.F. airfields. il Roads & Bridges 80:33-5, 100+ O '42
See also
Naval air stations

AIRPORTS, Municipal
Cities acquire new airport control privileges. Eng N 127:716 N 20 '41
Cities must prepare for the flying age; abstract. W. Beadie. Pub Works 73:20+ O '42
Defense grant aids small-town airport, Ontario, Calif. D. R. Warren. plan Aviation 41:153 Mr '42
Intermunicipal cooperation on airports increases. Eng N 128:326 F 26 '42
Kansas City's airport system. W. W. Brown. il Aviation 41:201-2+ Je '42
Kansas City's second municipal airport. R. Cantwell. Aero Digest 40:94 My '42
Major improvement of St Louis airport for defense. W. J. Gray. il Civil Eng 12:152-3 Mr '42
Mid-town airport; Raymond Loewy proposes helicopter landing field on steel pylons behind the Public library. il Arch Forum 75:sup14 N '41; Reply. M. Fortune. 76:sup6+ Ja '42
Ways of developing municipal airports. L. W. Burton, jr. Civil Aero J 3:60+ Mr 1 '42

Finance
Making the terminal airport pay; how LaGuardia field has ended its second year with a commendable financial record. il Aviation 41:145 Ja '42

AIRSHIPS
Blimp hangars set new timber arch record. diags Eng N 129:576-7 O 22 '42
Blimps return to the war; naval lighter-than-air craft on submarine patrol. R. G. Picinich, jr. il Aviation 41:207+ O '42
Lighter-than-air ships for defense. R. G. Picinich, jr. il Barron's 22:3+ Mr 30 '42
Recent developments in airships. K. Arnstein. il Aeronautical Eng R 1:13, 15, 17 Je '42
See also
Aeronautics
Aviation

AIRWAYS
Arctic supply line; shortest and safest way to send aid to Russian and Chinese allies. V. Stefansson. map Fortune 26:64-6+ Jl '42
See also
Air lines
Airports
Aviation

Traffic control
Airways traffic tripled; under full CAA control. Civil Aero J 3:125 Je 15 '42
C.A.A. speeds up expansion of airway traffic control. Civil Aero J 2:285-6+ N 15 '41

AKERMANITE
Binary system $CaSiO_3$—diopside and the relations between $CaSiO_3$ and akermanite. J. F. Schairer and N. L. Bowen. Am J Sci 240:725-42 O '42

AKRON, Ohio

Industries
Death of an era; abolition of six-hour day ends depression in Akron. Business Week p18 O 10 '42
Jobs in Akron; union membership declining. Business Week p82-3+ Je 13 '42

Sewerage
Thar's rubber in them thar sewers; recovering rubber from Akron sewage. Water Works & Sewerage 89:425 O '42

Water supply
Modern storeyard and garage facilities; adjunct to the water works system of Akron. W. R. La Due. il plan Water Works & Sewerage 89:374-7 S '42

ALABAMA

Economic conditions
Alabama, past and future. H. W. Odum, G. H. Yeuell and C. G. Summersell. 401p bibliog(p382-9) $1.96 Science research associates, 1700 Prairie av, Chicago '41
Natural resources of the Tennessee Valley region in Alabama. R. M. Harper. 93p bibliog(p10-15) Geological survey of Alabama, University, Ala. '42

ALABAMA academy of science
Nineteenth annual meeting. W. McGlamery. Science 96:65 Jl 17 '42

ALABAMA great southern railroad
Bids for issue of $9,500,000 bonds asked. Comm & Fin Chr 156:1321 O 12 '42
Bonds offered. Comm & Fin Chr 156:1570-1 N 2 '42

ALABAMA power company
$80,000,000 bonds offered. Comm & Fin Chr 155:358 Ja 24 '42
Files new refunding plan with SEC. Comm & Fin Chr 154:1589 D 20 '41
In the matter of Alabama power company. W. K. Pierpont. J Account 73:380-2 Ap '42
Invites public bids for $80,000,000 bonds. Comm & Fin Chr 155:153 Ja 10 '42
Plans bond redemption; $80,000,000 bond issue filed with SEC. Comm & Fin Chr 154:1697 D 27 '41
Recent refunding offers improved mortgage. Comm & Fin Chr 155:433 Ja 29 '42
SEC grants company to issue $80,000,000 bonds and $12,000,000 bank notes. Comm & Fin Chr 155:85 Ja 6 '42

ALABAMA, Tennessee and northern railroad
Reorganization modified. Comm & Fin Chr 155:1500 Ap 13 '42

ALANINE
Apparent molal heat capacities and volumes of the amino acids and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42
Calorimetric investigations of organic reactions; the heats of ionization of *dl*-alanine at 25°. J. M. Sturtevant. bibliog Am Chem Soc J 64:762-8 Ap '42
Densities and specific heats of aqueous solutions of *dl*-α-alanine, β-alanine and lactamide. F. T. Gucker, jr. and T. W. Allen. bibliog Am Chem Soc J 64:191-9 F '42
Further study of the cyclization of ureido derivatives of unsymmetrical iminodibasic acids together with the synthesis of certain hydantoins and other related compounds. D. R. Seeger and A. MacMillan. bibliog Am Chem Soc J 64:1686-91 Jl '42
Interaction of ions and dipolar ions; solubility of thallous salts in glycine and in alanine solutions. R. M. Keefer and H. G. Reiber. bibliog Am Chem Soc J 63:3504-7 D '41
Poly-condensation of α-amino acid esters; poly-condensation of alanine ethyl ester. M. Frankel and E. Katchalski. Am Chem Soc J 64:2268-71 O '42

ALARM clocks. See Clocks

ALARMS
See also

Air raid signals	Electric alarms
Burglar alarms ,	Fire alarms

ALASKA
Alaska development plan. 94p Alaska planning council, Juneau, Alaska '41
Alaska's future is the responsibility of the U.S. Fortune 25:114 Mr '42
Annual report of the Governor of Alaska to the Secretary of the interior; fiscal year ended June 30, 1941. 67p U.S. Dept. of the interior, Washington; pa 15c Supt. of doc. '41
Bridge to Asia. il map Fortune 25:94-101 Mr '42
Hand of Ickes in Alaska. L. C. Mann. Pub Util 28:731-41 D 4 '41
Theaters of war; the north Pacific and Alaska. R. Sillars. 19p bibliog(p19) pa 15c Teachers college '42

ALASKA—*Continued*

Time of my life; a frontier doctor in Alaska. H. C. De Vighne. 336p $3 Lippincott '42

See also

Aeronautics, Commercial—Alaska
Geology—Alaska
Gold mines and mining—Alaska
Indians of North America—Alaska
Mines and mineral resources—Alaska
Trees—Alaska

Antiquities

Lost civilization discovered at Point Hope, Alaska. Sci Am 165:336-7 D '41

Defenses

Alaska under arms. J. C. Potter. 200p $2 Macmillan '42

Industries and resources

Alaska's pulp producing possibilities. L. C. Mann. il Paper Ind 23:1195-7+ Mr '42

Economic conditions among Alaskan Indians and Eskimos. Monthly Labor R 54:647-9 Mr '42

ALASKA highway. See Roads—Canada

ALBANIA

Albania's road to freedom. V. Robinson. 135p $4.50 Norton '42

ALBERTA

See also

Geology—Alberta
Petroleum—Alberta
Petroleum industry and trade—Alberta
Sugar industry and trade—Alberta

ALBIZZIA

Saponin from the species of albizzia. C. D. Mell. Textile Col 64:75-6 F '42

ALBUMIN

Antigenic properties of native and regenerated horse serum albumin. H. Neurath, J. O. Erickson and G. R. Cooper. bibliog Science 96:116-17 Jl 31 '42

Denaturation of egg albumin by pressure. E. A. Grant, R. B. Dow and W. R. Franks. Science 94:616 D 26 '41

Dried egg albumen; solubility and color denaturation; abstract. G. F. Stewart and R. W. Kline. Food Ind 14:109 Je '42

Effects of heat on dry proteins; the kinetics of the formation of insoluble egg albumin. F. W. Bernhart. bibliog J Phys Chem 45:1382-7 D '41

X-ray analysis of protein denaturation. M. Spiegel-Adolf and G. C. Henny. bibliog il J Phys Chem 45:931-7; 46:581-6 Je '41, My '42

ALCLAD

Aircraft spot welding research; investigation of surface treatment of Alclad 24S-T in preparation for spot welding. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup257-65 Je '42

Cleaning Alclad for production. F. Morris. il Aviation 41:85+ Ap '42; Same abr. Welding J 21:sup197 Ap '42

Comparative formability of various aluminum alloys. T. H. Hazlett. il diags Iron Age 150:33-7 O 15 '42

Effect of weld spacing on the strength of spot-welded joints. R. Della-Vedowa and M. M. Rockwell. il diag Welding J 21:sup514-23 O '42; Abstract. Iron Age 150:49 O 22 '42

Elastic theory in sheet metal forming problems. F. R. Shanley. bibliog il diags J Aeronautical Sci 9:313-33 Jl '42; Same cond. Automotive & Aviation Ind 87:112+ O 1; 33-7 O 15 '42

Examination of spot welds in Alclad 24S-T. W. F. Hess, R. A. Wyant and B. L. Averbach. il Welding J 21:sup348-52 Jl '42

Forming convex flanges and joggles; sheet metal aircraft parts. W. Schroeder and R. B. Glassco. il diags Iron Age 149:49-53 Je 11 '42

Free trade-mark; Alclad. Dun's R 49:48 O '41

Heat treating aluminum aircraft parts. Iron Age 149:47-9 My 21 '42

Heat-treatment of aluminum aircraft parts. T. E. Piper. il diags Am Mach 86:1107-10 O 1 '42

Springback in flanging; curves and table for determining die-block angles. F. B. Chapman, T. H. Hazlett and W. Schroeder. diags Product Eng 13:382-3 Jl '42

Structural and metallurgical properties of condenser discharge spot welds. G. S. Mikhalapov and T. F. Falls. il Welding J 21:223-9 Ap '42

ALCOHOL

Alcohol-rubber gets support of big names in farm bloc. Nat Pet N 34:13 My 13 '42

Changes in volume on mixing solutions. P. W. Parsons and F. J. Estrada. Ind & Eng Chem 34:949-52 Ag '42

Chemicals from petroleum; ethyl alcohol. W. T. Ziegenhain. il Oil & Gas J 41:38 Ag 13 '42

Chemistry of butadiene from farm crops. Nat Pet N 34 pt 2:R385-6 O 28 '42

Conductometric titrations in non-aqueous solutions; study of acid-base equilibria in monoethanolamine and formation of complex ammines in ethanol. J. T. Pinkston and H. T. Briscoe. J Phys Chem 46:469-73 Ap '42

Determination of K_2O in commercial fertilizers using 95 and 80 per cent alcohol and acid-alcohol. O. W. Ford and C. W. Hughes. bibliog Ind & Eng Chem Anal ed 14:217-18 Mr 15 '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50; Discussion. 50-1 F '42

Distillation in a wetted-wall tower; investigation on rectification of ethyl alcohol. A. J. Surowiec and C. C. Furnas. bibliog diags Am Inst Chem Eng Trans 38:53-85; Discussion. 85-9 F '42

Ethyl benzene plan provides agricultural-alcohol outlet. diags Oil & Gas J 41:14-15 Ag 6 '42

Gillette committee swings into hearings on possibilities of farm alcohol-rubber. Nat Pet N 34:9-10 Ap 29 '42

Grain alcohol program for rubber production. India Rubber W 106:265-6 Je '42

Heats of mixing in the ternary system ethanol—acetic acid—ethyl acetate by a rapid approximate method. B. Longtin. bibliog J Phys Chem 46:399-405 Mr '42

Influence of external factors in catalytic reactions; dehydrogenation of ethyl alcohol with copper catalyst. T. J. Suen, T. P. Chien and P. S. Chu. bibliog Ind & Eng Chem 34:674-6 Je '42

Ionization constants of propionic acid in methyl and ethyl alcohol-water mixtures from 0 through 40°. A. Patterson and W. A. Felsing. Am Chem Soc J 64:1480-2 Je '42

Molal electrode potential of the silver-silver chloride electrode in ethyl alcohol-water mixtures. A. Patterson and W. A. Felsing. bibliog Am Chem Soc J 64:1478-80 Je '42

Mollier diagrams for theoretical alcohol-air and octane-water-air mixtures. R. Wiebe, J. F. Shultz and J. C. Porter. bibliog il diags Ind & Eng Chem 34:575-80 My '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42

Optimum liquid combinations for cloud chambers. C. Beck. diag R Sci Instr 12:602-6 D '41

Petroleum rubber route more economical than alcohol. H. D. Ralph. il Oil & Gas J 41:26-7+ Ag 13 '42

Priorities trouble delays 2 alcoholbutadiene units. Nat Pet N 34:15-16 My 20 '42

Rate of reduction of vanadium pentoxide in concentrated acid solutions; reduction of vanadium pentoxide by arsenious acid, oxalic acid, formaldehyde and ethyl alcohol. M. Bobtelsky and A. Glasner. bibliog Am Chem Soc J 64:1462-9 Je '42

ALCOHOL—*Continued*

Rubber from alcohol. Rubber Age 51:315 Jl '42

Sources of thermodynamic data; methods of application to the industry; hydration of ethylene. J. G. Aston. bibliog il Ind & Eng Chem 34:514-21 My '42

Story of rubber from corn unfolds at Senate hearing; W. Szukiewicz's invention for making butadiene from alcohol. Nat Pet N 34:16 My 6 '42

Studies of ionisation in non-aqueous solvents; the formation of certain methoxides and ethoxides in methyl and in ethyl alcohol. W. L. German and T. W. Brandon. Chem Soc J p526-8 Ag '42

To use ethyl alcohol for quick output of ethyl benzene. Nat Pet N 34:38-9 Ag 5 '42

Vapor-liquid equilibrium data on ethyl alcohol-water and on isopropyl alcohol-water. W. M. Langdon and D. B. Keyes. bibliog diags Ind & Eng Chem 34:938-42 Ag '42

Vapor phase esterification equilibrium. J. O. Halford and D. Brundage. bibliog Am Chem Soc J 64:36-40 Ja '42

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

See also

Alcohols

Fermentation

Liquor traffic

Analysis

Analysis of the ternary system ethanol-methanol-water; requiring boiling point, refractive index, and specific gravity of the sample. J. Griswold and J. A. Dinwiddie. bibliog Ind & Eng Chem Anal ed 14:299-300 Ap 15 '42

Determination of alcohol by volume in distilled liquors. L. C. Cartwright. Ind & Eng Chem Anal ed 14:237-9 Mr 15 '42

Determination of ethyl alcohol by micro-diffusion. T. Winnick. bibliog Ind & Eng Chem Anal ed 14:523-5 Je 15 '42

Method for determination of ethyl alcohol for medicolegal purposes. F. L. Kozelka and C. H. Hine. bibliog diags Ind & Eng Chem Anal ed 13:905-7 D 15 '41

Dehydration

New method for dehydration of alcohol. Chem & Ind 61:120-1 Mr 7 '42

Vapor-liquid equilibrium of methanol-ethanol-water; mechanism of ethanol dehydration. J. Griswold and J. A. Dinwiddie. Ind & Eng Chem 34:1188-91 O '42

Laws and regulations

Alcohol standards of identity broadened. Oil Paint & Drug Rep 141:3+ F 23 '42

Manufacture

Agrol aftermath; Atchison (Kan.) plant being revamped for production of grain alcohol. Business Week p32 D 6 '41

Alcohol capacity boosted. Chem & Met Eng 49:119 Je '42

Alcohol from petroleum hydrocarbons. W. L. Nelson. Oil & Gas J 41:40 Jl 23 '42

Alcohol speedup. il Business Week p96-7+ S 12 '42

Alcoholic fermentation of molasses; rapid continuous fermentation process. H. R. Bilford and others. il diag Ind & Eng Chem 34:1406-10 N '42

Ceramics used in building industrial alcohol column. il Cer Ind 39:39-40 O '42

Chemical engineering developments in grain distillery. A. Herman, E. M. Stallings and H. F. Willkie. flow diags il Am Inst Chem Eng Trans 38:791-809; Discussion. 809-12 Ag '42

Clay tile column simplifies distillers' conversion to industrial alcohol. il Brick & Clay Rec 101:23 S '42

Ethyl alcohol from fermentation of lactose in whey. H. H. Browne. bibliog News Ed 19:1272+ N 25 '41

Fast conversion of distillery mash for use in a continuous process. F. H. Gallagher and others. il Ind & Eng Chem 34:1395-7 N '42

Feed yeast and industrial alcohol from citrus-waste press juice. A. J. Nolte, H. W. von Loesecke and G. N. Pulley. il Ind & Eng Chem 34:670-3 Je '42

Getting more alcohol from present facilities; beer still. G. T. Reich. diags Chem & Met Eng 49:129-31 My '42

How to convert brewery to industrial alcohol production. G. T. Reich. flow diags il diag Food Ind 14:46-8+ My '42

Kiln drying corn for distilleries; abstract. S. L. Adams, W. H. Stark and P. Kolachov. Chem & Met Eng 49:158+ Jl '42

Lower cost alcohol? abstract. D. F. Othmer and R. L. Ratcliffe. Chem Ind 51:527 O '42

New sources of alcohol; abstract. F. F. Nord. Chem Ind 50:640 My '42

Production of alcohol; can be produced in many ways. Science 95:sup8 Ja 16 '42

Recent developments in the production of ethanol from waste sulphite liquor and wood. J. L. McCarthy. bibliog(99 references) Pulp & Pa of Can (Convention no) 43:205-6+ [F] '42

War essentials from agricultural materials; associated opportunities in research, manufacturing and farming. W. D. MacFarlane. Can Chem & Process Ind 26:389-90 Jl '42

Physiological effect

Absorption of various alcoholic beverages. H. Newman and M. Abramson. Science 96:43-4 Jl 10 '42

Alcohol explored. H. W. Haggard and E. M. Jellinek. 297p bibliog(p277-87) $2.75 Doubleday '42

Heavy drinkers probably do not require extra amounts of vitamin B₁; abstract. J. V. Lowry and others. Science 95:sup8 Ap 10 '42

See also

Alcoholism

Prices

Alcohol up 25½c. in East and 6c. on Pacific coast. Oil Paint & Drug Rep 141:4 Ja 5 '42

Price schedule. Iron Age 149:138+ Ja 1 '42

ALCOHOL, Denatured

Alcohol denaturant formulas changed. Oil Paint & Drug Rep 141:5 Mr 2 '42

Alcohol denaturants C.D. 12, 13, 14 changed; dehydrol specifications for denaturing issued. Oil Paint & Drug Rep 141:5+ Ap 13 '42

Revenue bureau lists alcohol denaturants. Oil Paint & Drug Rep 142:66 O 5 '42

Use regulations issued. Oil Paint & Drug Rep 141:3+ My 25 '42

ALCOHOL, Industrial

Adieu to sugar; why need for war alcohol has caused shortage. Business Week p18-19 Mr 7 '42

Expanding industrial alcohol output. Barron's 22:6 Ap 6 '42

Feed yeast and industrial alcohol from citrus-waste press juice. A. J. Nolte, H. W. von Loesecke and G. N. Pulley. il Ind & Eng Chem 34:670-3 Je '42

Industrial alcohol research achievements. Science 95:sup8 Ap 24 '42

Regulations 3, industrial alcohol. 442p U.S. Office of internal revenue, Washington '42

Whiskey converts; middle western plants to switch to military alcohol for the duration. Business Week p17 Je 20 '42

ALCOHOL as fuel

Agrol aftermath; Atchison (Kan.) plant being revamped for production of grain alcohol. Business Week p32 D 6 '41

New method for dehydration of alcohol. Chem & Ind 61:120-1 Mr 7 '42

Power alcohol not yet feasible or necessary in United States. Sci Am 166:198-9 Ap '42

ALCOHOL industry

Alcohol from grain is saving sugar; abstract. W. L. Batt. Oil Paint & Drug Rep 141:4+ Mr 16 '42

ALCOHOL industry—*Continued*

Alcohol manufacture to be for synthetic rubber. Comm & Fin Chr 155:2213 Je 11 '42

Distillers must use grain for alcohol. Oil Paint & Drug Rep 141:3+ Ja 12 '42

Ethyl, butyl, isopropyl alcohols restricted in production. Oil Paint & Drug Rep 141:3+ Ja 12 '42

Grain held by C.C.C. charts Chem Ind 50:224-5 F '42

Grain sold for alcohol; Commodity credit corporation. Comm & Fin Chr 155:1551 Ap 16 '42

Whisky drafted as source of alcohol for munitions manufacture. Business Week p48+ My 9 '42

Statistics

Alcohol and solvents. Chem & Met Eng 49:92-3 F '42

Taxation

Alcohol tax regulations amended. Oil Paint & Drug Rep 141:5 Je 29 '42

Mifflin alcohol tax upheld by Appeals court. Oil Paint & Drug Rep 140:5+ D 8 '41

New York (state)

Alcohol production under permit. Oil Paint & Drug Rep 141:5+ My 18 '42

ALCOHOLISM

Acute alcoholic intoxication; a critical review. H. W. Newman. 207p $2.50 Stanford univ. press '41

Alcohol addiction and chronic alcoholism. E. M. Jellinek. 336p bibliog(p152-69, 310-24) $4 Yale univ. press '42

Drunks are square pegs. C. Clapp, jr. 118p $1.50 Island workshop press co-op, New York '42

Research council on problems of alcohol. Science 95:217-18 F 27 '42

See also

Drunkenness

ALCOHOLS

Alkanolamines; monoalkylamino alcohols and their esters. C. B. Kremer and E. Waldman. Am Chem Soc J 64:1089-90 My '42

Amino ketones; synthesis of amino alcohols and 1,3-diamino compounds from β-amino ketones. N. H. Cromwell, Q. T. Wiles and O. C. Schroeder. bibliog Am Chem Soc J 64:2432-5 O '42

Castor oil base hydraulic fluids. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42

Catalytic dehydrogenation and condensation of aliphatic alcohols. V. I. Komarewsky and J. R. Coley. bibliog Am Chem Soc J 63:700-2, 3269-70 Mr, D '41

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

Condensation of some secondary aliphatic alcohols with benzene in the presence of aluminum chloride. R. C. Huston and I. A. Kaye. bibliog Am Chem Soc J 64:1576-80 Jl '42

Decomposition of zinc chloride double salts of diazonium compounds by alcohols and phenol. H. H. Hodgson and C. K. Foster. Chem Soc J p581-3 S '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Ethyl, butyl, isopropyl alcohols restricted in production. Oil Paint & Drug Rep 141:3+ Ja 12 '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

Influence of substituents on the reactivity of the hydroxyl group in β-phenylethyl alcohol. G. M. Bennett and M. M. Hafez. Chem Soc J p652-9 O '41

Intermediates of pentryl analogs; chloronitroanilino alkanols. C. B. Kremer and M. Meltsner. Am Chem Soc J 64:1285-6 Je '42

O-pentaacetyl-*d*-gluconates of polyhydric alcohols and cellulose. M. L. Wolfrom and P. W. Morgan. Am Chem Soc J 64:2026-8 S '42

Polyhydric alcohol esters in our war effort. J. W. Daum. il Chem Ind 51:522-3 O '42

Reactions of benzthiazole derivatives; the interaction of 1-thiolbenzthiazoles and alcohols. W. H. Davies and W. A. Sexton. Chem Soc J p304-7 Ap '42

Reactions of (+)- and (—)-γ-methyl-α-ethylallyl alcohols and their derivatives. R. S. Airs, M. P. Balfe and J. Kenyon. Chem Soc J p18-26 Ja '42

Relative acid strengths of formic, acetic, and propionic acids in alcohols and dioxane-water mixtures. M. Kilpatrick and R. D. Eanes. bibliog Am Chem Soc J 64:2065-7 S '42

Researches on thiazoles; some interesting exchange reactions between 6-alkoxy-7-nitrobenzothiazoles and alcohols. H. H. Fox and M. T. Bogert. bibliog Am Chem Soc J 63:2996-9 N '41

Solvents and plasticisers in war time. A. M. Peake. Chem Age (Lond) 46:21-3 Ja 10 '42

Specificity studies on enzymes hydrolyzing esters of substituted amino and nitrogen heterocyclic alcohols. D. Glick. bibliog Am Chem Soc J 64:564-7 Mr '42

Spreading of oils on water; spreading pressures and the Gibbs adsorption relation. W. A. Zisman. bibliog J Chem Phys 9:789-93 N '41

Structure-property relationships in some isomeric octanols. G. L. Dorough and others. bibliog Am Chem Soc J 63:3100-10 N '41

Superliquid in two dimensions and a first-order change in a condensed monolayer. W. D. Harkins and L. E. Copeland. J Chem Phys 10:272-86 My '42

Superliquid in two dimensions and a first-order change in a condensed monolayer; abnormal viscosity relations of alcohol monolayers in condensed liquid phases. L. E. Copeland, W. D. Harkins and G. E. Boyd. bibliog J Chem Phys 10:357-65 Je '42

Synthesis of 2-alkylaminoethanols from ethanolamine. A. C. Cope and E. M. Hancock. bibliog Am Chem Soc J 64:1503-6 Jl '42

1,1,1-Trichloro-2-hydroxy-3-nitroalkanes and their reduction products. S. Malkiel and J. P. Mason. Am Chem Soc J 64:2515 O '42

Utilization of aliphatic nitro compounds; nitroalcohols prepared from aldehydes containing no other functional groups. C. A. Sprang and E. F. Degering. bibliog Am Chem Soc J 64:1063-4 My '42

Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

See also

Alcohol
Allyl alcohol
Amyl alcohol
Butyl alcohol
Diacetone alcohol
Esters
Geraniol
Indanol
Ketols
Methanol
Propyl alcohol
Vinyl alcohol

Analysis

Identification of alcohols and alkyl hydrogen sulfates with S-benzylthiuronium chloride. R. K. Bair and C. M. Suter. Am Chem Soc J 64:1978 Ag '42

Identification of alcohols by means of the optical properties of the esters of carbanilic acid. B. T. Dewey and N. F. Witt. Ind & Eng Chem Anal ed 14:648 Ag 15 '42

Identification of alcohols in aqueous solution. W. N. Lipscomb and R. H. Baker. Am Chem Soc J 64:179-80 Ja '42

Komarowsky color reaction for aliphatic alcohols; limitations and sensitivity. H. W. Coles and W. E. Tournay. bibliog il Ind & Eng Chem Anal ed 14:20-2 Ja 15 '42

ALCOHOLS—Analysis—*Continued*

Lower aliphatic alcohols; application of the Zerewitinoff determination. W. Hollyday and D. L. Cottle. bibliog diag Ind & Eng Chem Anal ed 14:774-6 O 15 '42

ALCOHOLYSIS

Alcoholic splitting of proteins. S. M. Trister. Franklin Inst J 232:500-4 N '41

Preparation of new glycosides; direct alcoholysis of starch. S. M. Cantor. Chem Age (Lond) 45:213 O 18 '41

Preparation of orthoesters. S. M. McElvain and J. W. Nelson. bibliog Am Chem Soc J 64:1825-7 Ag '42

Studies on lignin and related compounds; hydrogenation studies on maple ethanolysis products. L. M. Cooke, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3052-61 N '41

Studies on lignin and related compounds; mechanism of the ethanolysis reaction. W. B. Hewson, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3041-5 N '41

Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

Studies on lignin and related compounds; the mechanism of the ethanolysis of maple wood at high temperatures. W. B. Hewson, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3045-8 N '41

ALDEHYDES

Action of alkali on cyclohexenecarbonals. H. E. French and D. M. Gallagher. Am Chem Soc J 64:1497-9 Jl '42

Bimolecular reduction of hindered aldehydes. R. C. Fuson and others. bibliog Am Chem Soc J 64:30-3 Ja '42

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

Ketene acetals; the elimination of hydrogen bromide from the acetals of α-bromoaldehydes; isopropyl- and *n*-propylketene diethylacetal. S. M. McElvain, R. L. Clarke and G. D. Jones. bibliog Am Chem Soc J 64:1966-9 Ag '42

Mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents; the aldehydecyanohydrin reaction: evidence for the mesomeric effects of alkyl groups. J. W. Baker and M. L. Hemming. diags Chem Soc J p191-8 Mr '42

N-methylformanilide synthesis of aldehydes. L. F. Fieser and J. E. Jones. bibliog Am Chem Soc J 64:1666-9 Jl '42

Photolysis of the aliphatic aldehydes; acetaldehyde and iodine mixtures. F. E. Blacet, J. D. Heldman and D. E. Loeffler. bibliog diag Am Chem Soc J 64:889-96 Ap '42

Studies on lignin and related compounds; aromatic aldehydes from plant materials. R. H. J. Creighton, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3049-52 N '41

Supersensitive Schiff's aldehyde reagent; demonstration of a free aldehyde group in certain aldoses. W. C. Tobie. bibliog Ind & Eng Chem Anal ed 14:405-6 My 15 '42

Synthesis of 2,7-naphthalenedialdehyde; an attempted synthesis of coronene. J. H. Wood and J. A. Stanfield. Am Chem Soc J 64:2343-4 O '42

Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42; Abstract. Paper Ind 24:310-12 Je '42

Utilization of aliphatic nitro compounds; nitroalcohols prepared from aldehydes containing no other functional groups. C. A. Sprang and E. F. Degering. bibliog Am Chem Soc J 64:1063-4 My '42

Utilization of aliphatic nitro compounds; nitrodiols (nitroglycols) prepared from simple aldehydes. C. A. Sprang and E. F. Degering. bibliog Am Chem Soc J 64:1735-6 Jl '42

See also

Acetaldehyde
Benzaldehyde
Formaldehyde
Glycolaldehyde

ALDOL condensation. See Condensation, Chemical

ALDONIC acids

Benzimidazole rule for the determination of configuration of the aldonic acids and related compounds. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1612-13 Jl '42

Preparation of lower aldonic acids by oxidation of sugars in alkaline solution. H. S. Isbell. bibliog J Research Nat Bur Stand 29:227-32 S '42

ALDOSES

Supersensitive Schiff's aldehyde reagent; demonstration of a free aldehyde group in certain aldoses. W. C. Tobie. bibliog Ind & Eng Chem Anal ed 14:405-6 My 15 '42

ALDOXIMES. See Oximes

ALEURITIC acid

Nature and constitution of shellac; preparation of 8,9,15-trihydroxypentadecylamine from aleuritic acid by the Naegeli-Curtius series of reactions. A. L. Davis and W. H. Gardner. bibliog Am Chem Soc J 64:1902-5 Ag '42

ALEUTIAN islands

Aleutian weather. F. Thone. Science 96: sup12 Jl 3 '42

See also

World war, 1939—
Aleutian islands

ALEXANDERS discount company

Statement by the chairman; annual general meeting, London. C. F. Campbell. Economist 142:87-8, 92 Ja 17 '42

ALFALFA

Alfalfa dehydrating helps farmers. M. F. Peters. il Gas Age 90:22-3 S 10 '42

Lipid fraction of lucerne leaf. H. S. Jefferies. Chem & Ind 61:324-5 Jl 25 '42

Sterols of alfalfa seed oil; isolation of β-spinasterol and δ-spinasterol. L. C. King and C. D. Ball. bibliog Am Chem Soc J 64:2488-92 O '42

ALFORD, Leon Pratt, 1877-1942

Sketch. Advanced Management 7:44-5 Ja-Mr '42; Mech Eng 64:96 F '42

ALFORD, Newell Gilder, 1887-

Sketch. por Min & Met 23:420 Ag '42

ALGAE

Carbon blackout for preventing algae growths in reservoirs. H. O. Hartung and V. C. Lischer. il Water & Sewage 80:20+ My '42

Effect of break-point chlorination on filter runs and algae growths; some experiences at Fredericksburg, Va. A. E. Wilson, jr. Water Works & Sewerage 89:129-30 Mr '42

How to handle the algae problem. A. E. Berry. il Water & Sewage 80:17-20+ S '42

Operation of water treatment plants; second edition, revised; algae identification and control. W. A. Hardenbergh and others. Pub Works 73:59-62 Je '42

Snow and ice algae of Alaska. E. Kol. il diags map Smithsonian Misc Coll v 101, no 16:1-36. pl 1-6 bibliog(p31-3) '42

Solving a green water trouble; abstract. Pub Works 73:40 S '42

Some aspects of algal chemistry. I. M. Heilbron. Chem Soc J p79-89 F '42; Abstract. Soc Dyers & Col J 58:97-8 My '42

See also

Diatoms

ALGAE, Fossil

Notes on stromatolites. P. E. Cloud, jr. diags Am J Sci 240:363-79 bibliog(p377-9), pl 1-2 My '42

Permian lime-secreting algae from the Guadalupe mountains, New Mexico. J. H. Johnson. il diags Geol Soc Bul 53:195-226, pl 1-7 bibliog(p218-19) F '42

ALGEBRA

Advanced algebra. E. I. Edgerton and P. A. Carpenter. new ed 444p $1.40 Allyn and Bacon, New York '41

College algebra. H. R. Cooley and others. 384p $2.25 McGraw-Hill '42

Mathematics for technical training; algebra. P. L. Evans. 126p $1.25 Ginn '42

Why use algebra? L. Perkins. J Account 74:242-5 S '42

See also

Matrices

ALGINIC acid

Alginic acid textile fibers. C. H. S. Tupholme. Chem & Eng N 20:883-4 Jl 10 '42

ALGOMA steel corporation, ltd.

Algoma steel corporation, ltd.; its products have promoted the industrial growth of Canada. C. Longenecker. il diags plans Blast F & Steel Pl 30:112-35 Ja '42

ALICYCLIC compounds. See Cyclic compounds

ALIEN and enemy property. See Enemy property

ALIENS

Akron's latest; General Tire's workers walk out over rehiring of aliens. Business Week p73-4 Jl 4 '42

Alien scientist and the war. R. H. Heindel. Ann Am Acad 223:144-8 S '42

Aliens in the United States. D. R. Perry. Ann Am Acad 223:1-9 S '42

Aliens in war industries. W. W. Alexander. Ann Am Acad 223:138-43 S '42

Government policy on discrimination in hiring aliens. Monthly Labor R 54:632-3 Mr '42

Government policy on employment of aliens. Comm & Fin Chr 156:191 Jl 16 '42

Legal restrictions on employment of aliens in Paraguay, 1942. W. Frost. Monthly Labor R 55:477 S '42

Policy of nondiscrimination in employment of aliens; President's statement. Monthly Labor R 55:465-6 S '42

President appeals for sane policy regarding foreign born employees. Comm & Fin Chr 155:137 Ja 8 '42

See also

Agency (law)—
  Foreign principals
Refugees

ALIENS, Enemy. See Enemy aliens

ALINEMENT charts. See Charts (calculating)

ALINEMENT of machinery

How to align lineshafting. diags Power 86:672-3+ S '42

Improved method for checking alignment of running gear. diags Ry Mech Eng 115:528-31; 116:28-30 D '41-Ja '42

Influence of temperature on lathes; compensation for misalignments essential when parts must be finished to close tolerances. G. Schlesinger. diags Am Mach 86:379-81 Ap 30 '42

Inspection procedure for Diesel engines. E. R. Spencer. il diag Power Pl Eng 46:70-3 F '42

ALIPHATIC acids. See Acids, Fatty

ALIPHATIC compounds

Halogenation of aliphatic hydrocarbons. G. Egloff and M. Alexander. bibliog Oil & Gas J 41:41-2+ Ag 20; 39-40+ Ag 27; 34-7 S 3 '42

ALIZARIN

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

ALKALI metal halides

Rates and mechanism of phase changes in binary mixtures of alkali halides. F. A. Matsen and J. Y. Beach. bibliog Am Chem Soc J 63:3470-3 D '41

Solid solutions of the alkali halides. A. V. Tobolsky. J Chem Phys 10:187-92 Mr '42

ALKALI metal hydrides

See also

Potassium hydride

ALKALI metal hydroxides. See Alkalies

ALKALI metal sulfates

Effect of admixtures on portland cement. C. H. Jumper and G. Kalousek. Rock Prod 45:28-9 My '42

Isomorphism and allotropy in compounds of the type A_2XO_4. M. A. Bredig. bibliog J Phys Chem 46:747-64 Je '42

ALKALI metals

Alkali and alkaline earth metals as catalysts in the hydrogenation of organic compounds. F. W. Bergstrom and J. F. Carson. Am Chem Soc J 63:2934-6 N '41

Investigation of the scattering of positive alkali ions at an angle of 90° in mercury vapor. Sister John Baptist Macelwane. diag Phys R 60:762-5 D 1 '41

See also

Lithium
Potassium
Rubidium
Sodium

Analysis

Validity of the Ilkovič equation in the polarographic analysis of alkali metals and the characteristics of the alkali waves in various media. I. Zlotowski and I. M. Kolthoff. bibliog Am Chem Soc J 64:1297-1301 Je '42

ALKALIES

Conductances of aqueous solutions of the hydroxides of lithium, sodium and potassium at 25°. L. S. Darken and H. F. Meier. bibliog Am Chem Soc J 64:621-3 Mr '42

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

Modified starches: action of alkalis on starches. G. B. Jambuserwala. bibliog Textile Inst J 32:T201-8 O '41; Abstract. Textile Col 64:65-6+ F '42

Organic sulphur compounds: the relation between the constitution of thioethers and thiols and their sensitivity towards alkali. A. Schönberg and Y. Iskander. Chem Soc J p90-5 F '42

Twenty years' progress in alkali technology. D. Aronson. il Chem Ind 50:324-31 Mr '42

See also

Ammonia
Potash
Potassium hydroxide
Sodium hydroxide

Analysis

Analytical procedures employing Karl Fischer reagent; reactions with inorganic oxides and related compounds; oxidation and reduction reactions. J. Mitchell, jr. and others. bibliog Am Chem Soc J 63:2927-30 N '41

Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42; Abstract. Paper Ind 24:310-12 Je '42

Bibliography

Bibliography of nomographs dealing with alkalies. R. Myllynen and D. S. Davis, comps. Chem & Eng N 20:56 Ja 10 '42

ALKALINE earth metals

Alkali and alkaline earth metals as catalysts in the hydrogenation of organic compounds. F. W. Bergstrom and J. F. Carson. Am Chem Soc J 63:2934-6 N '41

Alkaline earth metals and their alloys; increasing technical importance. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 47:107-11 Ag 1 '42

Contribution to the question of the secondary emission from sublimated alkaline-earth films; abstract. P. Görlich. Wireless Eng 18:467 N '41

Crystallographic structure of alkaline-earth oxide mixtures; investigations on oxide cathodes with the help of Röntgen rays and electron beams; abstract. H. Huber and S. Wagener. Wireless Eng 19:270-1 Je '42

See also

Barium
Calcium
Magnesium
Strontium

ALKALINITY

Calcium carbonate saturation index and alkalinity interpretations. T. E. Larson and A. M. Buswell. Am Water Works Assn J 34:1667-78 bibliog(p1678); Discussion. 1679-84 N '42

Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42

ALKALOIDS

Alkaloid of crotalaria grantiana; grantianine. R. Adams, M. Carmack and E. F. Rogers. Am Chem Soc J 64:571-3 Mr '42

Alkaloids of papaveraceous plants; hunnemannia fumariaefolia Sweet and the constitution of a new alkaloid, hunnemanine. R. H. F. Manske, L. Marion and A. E. Ledingham. bibliog Am Chem Soc J 64:1659-61 Jl '42

Azeotropism in the system nicotine-water; separation of nicotine from related alkaloids by aqueous distillation. C. R. Smith. Ind & Eng Chem 34:251-2 F '42

Erythrina alkaloids; chromatographic analyses of erysodine, erysovine and erysocine and technique for preparative isolation. K. Folkers and J. Shavel, jr. bibliog diag Am Chem Soc J 64:1892-6 Ag '42

Erythrina alkaloids; studies on the constitution of erythraline, erythramine, and erythratine. K. Folkers, F. Koniuszy and J. Shavel, jr. bibliog Am Chem Soc J 64:2146-51 S '42

Extraction of alkaloids. D. Morris. Chem & Ind 60:834 N 22 '41

Solanum alkaloids; solasonine. L. H. Briggs, R. P. Newbold and N. E. Stace. Chem Soc J p3-12 Ja '42

Solanum alkaloids; the alkaloid from the fruit of solanum aviculare. R. C. Bell and L. H. Briggs. Chem Soc J p 1-2 Ja '42

Solanum alkaloids; the alkaloids from solanum auriculatum. R. C. Bell, L. H. Briggs and J. J. Carroll. diags Chem Soc J p12-16 Ja '42

Solanum alkaloids; the glycosidic moiety of solauricine. L. H. Briggs and J. J. Carroll. Chem Soc J p17-18 Ja '42

Sophora alkaloids; the alkaloids from the seeds of the Chatham Islands species. L. H. Briggs and W. E. Russell. Chem Soc J p555-6 S '42

Sophora alkaloids; the alkaloids of the seeds of S. chrysophylla. L. H. Briggs and W. E. Russell. Chem Soc J p507-9 Ag '42

Studies on Argentine plants; alkaloids from lycopodium saururus. V. Deulofeu and J. De Langhe. bibliog Am Chem Soc J 64:968-9 Ap '42

Studies on Argentine plants; identification and characterization of some alkaloids in fagara coco (Gill) Engl. V. Deulofeu, R. Labriola and J. De Langhe. Am Chem Soc J 64:2326-8 O '42

See also
Cinchona alkaloids
Colchicine
Pyridine

ALKANES. See Paraffins

ALKANOLAMINES. See Alcohols

ALKENES. See Olefins

ALKOXY group

Local anesthetics; β-monoalkylaminoethyl esters of alkoxybenzoic acids. J. S. Pierce, J. M. Salsbury and J. M. Fredericksen. Am Chem Soc J 64:1691-4 Jl '42

ALKOXYVINYLBARBITURIC acid

α-Alkoxyvinyl- and α-alkoxyethylbarbituric acids. S. M. McElvain and H. Burkett. Am Chem Soc J 64:1831-6 Ag '42

ALKYD resins. See Resinous products

ALKYL carbonates

Alkyl carbonates in synthetic chemistry; alkyl carbonates as solvents for metalation and alkylation reactions. V. H. Wallingford, M. A. Thorpe and A. H. Homeyer. bibliog Am Chem Soc J 64:580-2 Mr '42

Alkyl carbonates in synthetic chemistry; alkylation of malonic esters by alkyl carbonates. V. H. Wallingford and D. M. Jones. bibliog Am Chem Soc J 64:578-80 Mr '42

Alkyl carbonates in synthetic chemistry; condensation with nitriles; synthesis of α-cyano esters. V. H. Wallingford, D. M. Jones and A. H. Homeyer. bibliog Am Chem Soc J 64:576-8 Mr '42

ALKYL halides

Magnitude of the solvent effect in dipole-moment measurements; induced and mesomeric moments of the alkyl halides and the halogenobenzenes. A. Audsley and F. R. Goss. Chem Soc J p497-500 Ag '42

Nature of electronic levels in ultra-violet spectra of hydrogen and alkyl halides. R. S. Mulliken. bibliog Phys R 61:277-83 Mr 1 '42

ALKYL iodides

Exchange reaction between simple alkyl iodides and iodide ion. H. Seelig and D. E. Hull. bibliog diags Am Chem Soc J 64:940-8 Ap '42

Magnitude of the solvent effect in dipole-moment measurements; the solvent-effect constant and the moments of alkyl iodides. A. Audsley and F. R. Goss. Chem Soc J p358-66 My '42

ALKYL isothioureas

Explosion hazard in the chlorination of alkyl isothioureas to prepare alkyl sulfonyl chlorides. K. Folkers, A. Russell and R. W. Bost. Am Chem Soc J 63:3530-2 D '41

ALKYL phosphates

Alkyl esters of phosphoric acid. C. A. Hochwalt and others. bibliog il Ind & Eng Chem 34:20-5 Ja '42

Alkyl esters of phosphoric acid; some applications in industry. H. Adler and W. H. Woodstock. bibliog(71 references) il Chem Ind 51:516-21+ O '42

ALKYL sulfates

Conductances of solutions of several alkyl sulfates and sulfosuccinates. F. D. Haffner, G. A. Piccione and C. Rosenblum. bibliog J Phys Chem 46:662-70 Je '42

ALKYL sulfides

Sulfur studies; sulfonium derivatives of *p*-phenylphenacyl bromide. R. W. Bost and H. C. Schultze. bibliog Am Chem Soc J 64:1165-7 My '42

ALKYLATION

Alkyl carbonates in synthetic chemistry; alkyl carbonates as solvents for metalation and alkylation reactions. V. H. Wallingford, M. A. Thorpe and A. H. Homeyer. bibliog Am Chem Soc J 64:580-2 Mr '42

Alkyl carbonates in synthetic chemistry; alkylation of malonic esters by alkyl carbonates. V. H. Wallingford and D. M. Jones. bibliog Am Chem Soc J 64:578-80 Mr '42

Alkylation of benzene in the presence of acid catalysts. R. L. Burwell, jr. and S. Archer. bibliog Am Chem Soc J 64:1032-4 My '42

Alkylation of α-naphthoquinones with esters of tetravalent lead. L. F. Fieser and F. C. Chang. bibliog Am Chem Soc J 64:2043-52 S '42

Alkylation of para quinones with acyl peroxides. L. F. Fieser and A. E. Oxford. bibliog Am Chem Soc J 64:2060-5 S '42

Alkylation of paraffins at low temperatures in the presence of aluminum chloride. H. Pines, A. V. Grosse and V. N. Ipatieff. diags Am Chem Soc J 64:33-6 Ja '42

Alkylation; oil industry's contribution to war requirements of aviation fuel. G. B. Murphy. flow diag bibliog il Nat Pet N 34:R4, R6, R8 Ja 7 '42

Anhydrous hydrofluoric acid; properties as an alkylation catalyst. Nat Pet N 34 pt 2:R366-8 O 28 '42

Catalytic vapor-phase alkylation of benzene with ethylene; abstract. W. A. Pardee and B. F. Dodge. Nat Pet N 34 pt 2:R318 S 30 '42

ALKYLATION—*Continued*

Condensations; various acylations and alkylations of the sodium enolates of aliphatic esters; methods for the syntheses of α,α-disubstituted β-keto esters and of certain other compounds. B. E. Hudson, jr. and C. R. Hauser. bibliog Am Chem Soc J 63:3156-62 N '41

α,β-Dialkylphenethylamines; alkylation of phenylacetone. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:533-6 Mr '42

Economics of the alkylation process in the production of high-octane gasoline. R. G. Lovell. flow diags Pet Eng 13:27-30 Mr '42

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33:1540-4 D '41

Introduction of substituted vinyl groups; acetoacetic ester series. A. C. Cope and C. M. Hofmann. bibliog Am Chem Soc J 63:3456-9 D '41

Normal and abnormal alkylation of 2-methylcyclopentyl methyl ketone. G. Wash, B. Shive and H. L. Lochte. bibliog Am Chem Soc J 63:2975-9 N '41

Orientation effects in the alkylation of *m*-xylene by various procedures and reagents. D. Nightingale, H. D. Radford and O. G. Shanholtzer. bibliog Am Chem Soc J 64:1662-5 Jl '42

ortho Alkylation and arylation of mesityl aryl ketones. R. C. Fuson and S. B. Speck. Am Chem Soc J 64:2446-8 O '42

Preparation and alkylation of 1,4-dimesityl-3-methyl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2423-6 O '42

Replacing butylenes with pentylenes for alkylates. W. L. Nelson. Oil & Gas J 41:53 S 10 '42

See supply of aviation gasoline enlarged through hydrofluoric acid alkylation. diag Nat Pet N 34:R131-2 Ap 29 '42

Use of amalgamated aluminum as a catalyst in the Friedel and Crafts reaction. L. I. Diuguid. Am Chem Soc J 63:3527-9 D '41

ALLEGHANY corporation

Annual report. Comm & Fin Chr 155:1007 Mr 9 '42

Bonds called for redemption. Comm & Fin Chr 156:1145 S 28 '42

Trustee makes initial report. Comm & Fin Chr 156:246 Jl 20 '42

Value of collateral. Comm & Fin Chr 156:1686 N 9 '42

ALLEGHENY Ludlum steel corporation

Annual report. Comm & Fin Chr 155:1401 Ag 6 '42

Earning power. H. Lawrence. Barron's 22:20 Ap 20 '42

Favored stocks from $10 to $25. Mag of Wall St Manual p11 Ap '42

Thumbnail stock appraisal. Mag of Wall St 69:320 D 27 '41

ALLEGHENY river

Allegheny. F. Way, jr. 280p $2.50 Farrar '42

ALLEN, Glover Morrill, 1879-1942

Sketch. A. H. Clark. Science 95:266-8 Mr 13 '42

ALLENTOWN, Pennsylvania

Pool is born; Allentown program of joint action on war orders. Business Week p64-7 Mr 7 '42

ALLERGENS

Chemistry of allergens; chemical composition and properties of an active carbohydrate-free protein from cottonseed. J. R. Spies and E. J. Umberger. Am Chem Soc J 64:1889-91 Ag '42

Chemistry of allergens; the amino acid content of active protein and polysaccharidic protein fractions from cottonseed. J. R. Spies. bibliog Am Chem Soc J 63:2994-6 N '41

ALLIED chemical and dye corporation

Annual report. Comm & Fin Chr 155:1114 Mr 16 '42

ALLIED mills, incorporated

Factors in Allied Mills' profits. Barron's 22:6 Jl 27 '42

Thumbnail stock appraisal. Mag of Wall St 69:320 D 27 '41

ALLIS-CHALMERS manufacturing company

Another look at your company. il Mag of Wall St 70:185 My 30 '42

Watch West Allis; wage issue at Pittsburgh may be intended to strengthen C.I.O.'s Wisconsin forces. Business Week p72+ F 14 '42

ALLISON engine

Allison engines in current production. il diags Aero Digest 40:184 Je '42

Allison set for peak production; with layout. il diags Am Mach 86:165-77 Mr 5 '42

Production miracle wrought by Allison in three years. il Steel 109:40-1+ D 15; 42-3 D 29 '41

ALLOCATIONS. See Priorities and allocations, Industrial

ALLOPREGNANOLONE

Sterols; rearrangement of 17,21-dibromo-*allo*-pregnan-3(β)-ol-20-one acetate. R. E. Marker and others. Am Chem Soc J 64:2089-92 S '42

ALLOPREGNANONE

Sterols; 17-bromo-*allo*-pregnanone-20 and 17,21-dibromo-*allo*-pregnanone-20. R. E. Marker and others. Am Chem Soc J 64:822-4 Ap '42

ALLOTROPY

Isomorphism and allotropy in compounds of the type A_2XO_4. M. A. Bredig. bibliog J Phys Chem 46:747-64 Je '42

ALLOYS

Alkaline earth metals and their alloys; increasing technical importance. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 47:107-11 Ag 1 '42

Alloy-addition weight table. Metals & Alloys 15:834 My '42

Alloys of metals; abstract. M. L. Samuels, A. R. Elsea and K. Grube. Science 96:sup8+ O 23 '42

Alternate materials; their availability and practicability. L. R. St. Onge. il Refrig Eng 44:291-3 N '42

Application of corrosion resistant alloys to natural gasoline plants. B. B. Morton. il Nat Pet N 34 pt 2:R308-13 S 30 '42

Casting properties of foundry products; ferrous and non-ferrous; reference table. H. R. Clauser, comp. Metals & Alloys 15:583 Ap '42

Check-analysis instrument for alloys. il Blast F & Steel Pl 30:372-3 Mr '42

Condensed review of some recently developed materials, arranged alphabetically by trade names. Mach 49:174-84 O '42

Conservation and substitution, so far. H. W. Gillett. il Metals & Alloys 16:600-7 O '42

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. Engineering 153:498-500, 519 Je 19-26 '42

Dilatometric equipment from the Lunkenheimer co., Cincinnati. H. E. Montgomery and J. W. Bolton. il diag Metals & Alloys 16:52-5 Jl '42

Economising nickel; alternative alloys for control gear. Elec R (Lond) 131:387-91 S 25 '42

Electric resistance hearths; some developments in alloys for use as elements. Electrician 128:200-2 Mr 6 '42

Hardness of metals as affected by alloying agents. S. Siegel. bibliog J Ap Phys 13:84-9 F '42

Iron, steel and nonferrous metals listed by tradenames, by producers and by principal constituents. Machine Design 14:123-49 O '42

Light alloy armor plate; penetration tests. Iron Age 149:41 Mr 19 '42

Low expansion alloys for glass-to-metal seals. W. E. Kingston. bibliog diags Am Soc for Metals Trans 30:47-67 Mr '42; Excerpts. Metals & Alloys 16:338+ Ag '42

Machining non-ferrous alloys. il diags Engineer 173:412-14 My 15 '42

ALLOYS—*Continued*

Mechanical properties of alloys at low temperatures; abstract. Metals & Alloys 15: 182+ Ja '42

Metal melting temperatures; melting points keyed to color scale; data sheet. Power 86:521 Jl '42

Metallurgy fights on two fronts. B. W. Corrado. bibliog il Iron Age 149:102-11+ Ja 1 '42

Metals and alloys for construction of chemical engineering equipment; tabulated data. Chem & Met Eng 49:105-28 S '42

Microscope reveals secrets of important metal alloys; abstract. D. Harker. Blast F & Steel Pl 30:sup44 Ap '42

New materials and finishes of 1941; with reference table. F. P. Peters. Metals & Alloys 15:82-90 Ja '42

Nomenclature of non-ferrous alloys. Engineering 152:372 N 7 '41

Non-ferrous alloys for airframes and engines. J. B. Johnson. Aero Digest 41:130+ Jl '42

Order in the alloy Cu$_3$Au; electron diffraction by transmission method used to investigate superstructure. L. H. Germer, F. E. Haworth and J. J. Lander. il diags Phys R 61:614-26 My 1 '42

Plating alloys; white brass, black molybdenum, and black and gray nickel plating. C. B. F. Young. il Iron Age 149:53-7 F 12; 46-8 F 19 '42

Possible substitutes for nickel in the present five-cent coin. C. T. Anderson. U S Bur Mines Rep of Invest 3658:1-6 '42

Powder metallurgy. F. C. Kelley. il diags Elec Eng 61:468-75 S '42

Precipitation-hardening of metals. P. D. Merica. Franklin Inst J 234:137-46 Ag '42

Production and fabrication of some nonferrous metals and their alloys in wartime. M. A. Hunter and others. Min & Met 23: 112-16 F '42

Simultaneous measurement of magnetic and dilatometric changes. O. Zmeskal and M. Cohen. il diag R Sci Instr 13:346-8 Ag '42

Some mechanisms of alloy corrosion. R. Landau. bibliog diags Electrochem Soc Trans 81 (preprint 23):363-74 Ap '42

Specifications problem. W. C. Hirsch. Automotive & Aviation Ind 87:17+ Jl 1 '42

Structure and properties of alloys; the application of phase diagrams to the interpretation and control of industrial alloy structures. R. M. Brick and A. Phillips. 227p $2.50 McGraw-Hill '42

Structure of alloys. W. Hume-Rothery. Metal Prog 41:186+ F '42

X-ray diffraction as a method of identifying metal alloys. L. L. Wyman. il diags Steel 109:70-2 D 22; 62-3+ D 29 '41

See also

Aluminum alloys
Antimony alloys
Babbitt metal
Bearing metals
Beryllium alloys
Brass
Bronze
Cobalt alloys
Copper alloys
Iron alloys
Lead alloys
Magnesium alloys
Metallurgical analysis
Nickel alloys
Silver alloys
Solutions, Solid
Steel alloys
Stellite
Tin alloys
Type metal
Vitallium
Zinc alloys

ALLOYS, Hard facing

Diamalloy for rebuilding worn machinery parts. Roads & Bridges 80:46+ Ag '42

Hard-facing rods; Stoodite K and Stoody self-hardening K. Blast F & Steel Pl 30: 700 Je '42; Same. Welding J 21:486 Jl '42; Same. Mach 49:189 S '42

Hard surfacing alloy saves vital metals; Colmonoy No 6. il Steel 111:104 Ag 17 '42

ALLOYS, Heat resisting

Further alloy conservation needed in heat resistant castings. Metal Prog 41:501-2 Ap '42

Heat resistant alloys; abstract. H. S. Avery, E. Cook and J. A. Fellows. Metals & Alloys 16:792+ O '42

Metals and alloys for construction of chemical engineering equipment; tabulated data. Chem & Met Eng 49:105-28 S '42

New alloy for working at high temperature; K-42-B; nickel, cobalt, titanium, iron, chromium. P. H. Brace. il Metal Prog 41: 354-60 Mr '42

Silicon, manganese, chromium, iron, and copper in a nickel-base alloy; an aliquot method for routine analysis of an electrical heat-resisting alloy. L. Silverman. Ind & Eng Chem Anal ed 14:554-5 Jl 15 '42

Study of some of the factors affecting the resistance of cast iron to deflection under load at high temperatures. L. W. Bolton. diag Iron & Steel Inst J 114:89-104, pl 9-14 no 2 '41; Same, without pls. Engineer 172: 172-4 S 12 '41; Same cond. Engineering 152: 97-100 Ag 1 '41; Abstract. Metal Prog 40: 966+ D '41

Testing

New high-temperature fatigue machine. W. P. Welch and W. A. Wilson. il diags Am Soc T M Proc 41:733-45 '41; Abstract. Steel 109:62-3 N 24 '41; Discussion. Am Soc T M Proc 41:746 '41

ALLOYS, Low melting

Low temperature metal for proof-casts and protective coating; Cerrosafe. il Iron Age 150:64 N 12 '42

Low temperature welding with eutectic alloys; Castolin. il Aero Digest 41:182+ Ag '42

ALLSTATE insurance company

Unusual methods of Allstate are described in audit. Nat Underw 45:21 D 25 '41

ALLULOSE

d-Allulose and some methylated derivatives. F. W. Zerban and L. Sattler. Am Chem Soc J 64:1740-1 Jl '42

Unfermentable reducing substances in molasses; identification of *d*-allulose. F. W. Zerban and L. Sattler. bibliog il Ind & Eng Chem 34:1180-8 O '42

ALLYL acetate

Halogen addition to ethylene derivatives; bromine and iodine additions in glacial acetic acid. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:709-16 Mr '42

ALLYL alcohol

Alkyl-oxygen fission in carboxylic esters; esters of $\alpha\gamma$-dimethylallyl alcohol and other substituted allyl alcohols. M. P. Balfe and others. Chem Soc J p556-9 S '42

Reactions of (+)- and (—)-γ-methyl-α-ethylallyl alcohols and their derivatives. R. S. Airs, M. P. Balfe and J. Kenyon. Chem Soc J p18-26 Ja '42

ALLYL chloride

Halogen addition to ethylene derivatives; bromine and iodine additions in glacial acetic acid. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:709-16 Mr '42

ALLYLNORMORPHINE

N-allylnormorphine. J. Weijlard and A. E. Erickson. bibliog Am Chem Soc J 64:869-70 Ap '42

ALLYLSALICYLIC acid

Rearrangement of O-crotyl-3,5-dichlorosalicylic acid and related compounds. D. S. Tarbell and J. W. Wilson. bibliog Am Chem Soc J 64:607-12 Mr '42

ALMOND emulsin. See Emulsin

ALMONDS

Almond headache; California crop runs 25% of normal. Business Week p37+ D 13 '41

Portugal's almond crop. For Comm W 9:25 O 10 '42

Spain's nut industry; 1942 almond crop. For Comm W 9:26-7 O 31 '42

Spanish almond and filbert crops. For Comm W 8:27 Jl 11 '42

ALNICO

Alnico; properties and equipment for magnetization and test. B. M. Smith. il Gen Elec R 45:210-13 Ap '42

New magnetic materials. W. E. Ruder. bibliog Inst Radio Eng Proc 30:437-40 O '42

Permanent magnet β-ray spectrograph. E. H. Plesset, G. P. Harnwell and F. G. P. Seidl. il diag R Sci Instr 13:351-61 Ag '42

ALNICO—*Continued*

Permanent magnets. J. H. Goss. il Metals & Alloys 15:576-82 Ap '42

Quality control in the manufacture of permanent magnets cuts rejects 90 per cent. J. H. Goss. il diags Steel 111:92-4+ O 26 '42

ALOES

Exportation of aloe from the Dominican Republic. For Comm W 5:26 N 29 '41

ALOINS

Chemistry of the aloins; formation of formaldehyde and furfural. J. H. Gardner and J. A. Campbell. Am Chem Soc J 64:1378-9 Je '42

ALPHA portland cement company

Another look. Mag of Wall St 71:75 O 31 '42

Stocks in a strong earnings position for 1942. Mag of Wall St 70:141 My 16 '42

ALPHA rays

Effect of strong electric fields on the radiochemical decomposition of gaseous ammonia. M. J. McGuinness, jr. and H. Essex. diag Am Chem Soc J 64:1908-11 Ag '42

Fine structure of nuclear energy levels on the alpha-model. C. Kittel. bibliog Phys R 62:109-17 Ag 1 '42

Frequency of proton and alpha-tracks in cosmic-ray stars. M. M. Shapiro. bibliog Phys R 61:115-20 F 1 '42

Short range alpha-particles from fluorine bombarded with protons. R. A. Becker, W. A. Fowler and C. C. Lauritsen. bibliog il diags Phys R 62:186-96 S 1 '42

See also

Counters (electrons, ions, etc.)

Helium

ALPHABET

Alphabet and elements of lettering. F. W. Goudy. rev & enl ed 101p $6 Univ. of California press, Berkeley '42

Inclusive uniform alphabet for Russian, Bulgarian, Serb-Croatian, Czech, Polish. M. B. Jones. 35p pa 25c Claremont colleges lib, Claremont, Calif. '42

History

A B C of our alphabet. T. Thompson. 64p bibliog(p63-4) $3.50 Studio publications, New York '42

ALPHABETING

A.L.A. rules for filing catalog cards. 109p bibliog(p97-101) $2 Am. lib. assn, 520 N. Michigan av, Chicago '42

Filing rules of the Library of Congress; a tentative interpretation. L. E. Tomlinson and L. R. Pitt, comps. 2d ed rev 37p bibliog (p32-4) pa $1 L. E. Tomlinson, Baylor univ. lib., Waco, Tex. '42

Indexing and alphabetizing simplified. V. A. Avery and F. Kraines. 19p pa 50c Pamphlet distributing co, 313 W. 35th st, New York '42

ALTERNATING electric currents. See Electric currents, Alternating

ALTERNATORS. See Electric generators, Alternating current

ALTIMETERS

Save power by surveying mine with altimeter using data for air-pressure profile. A. P. Jaggard. Coal Age 47:62-3 Mr '42

Bibliography

Flight instruments; bibliography giving references for research. J Aeronautical Sci Aeronautical R Sec 9:51, 53 N '41

ALTITUDE, Influence of

Gas exchange in the lungs at high altitudes. D. B. Dill and F. G. Hall. J Aeronautical Sci 9:220-3 Ap '42

Life in the Andes and chronic mountain sickness. C. Monge. Science 95:79-84 Ja 23 '42

See also

Aviation—Medical aspects

ALTITUDE flying. See Aviation—Altitude flying

ALTITUDES

Effect of altitude on knock rating in CFR engines. D. B. Brooks. bibliog J Research Nat Bur Stand 28:713-34 Je '42

Lightning investigation at high altitudes in Colorado. L. M. Robertson, W. W. Lewis, and C. M. Foust. bibliog il diag Elec Eng 61:Trans 201-8 Ap '42; Abstract. Power Pl Eng 46:67 Ap '42

Psychrometric calculations for high altitudes. C. Yin. Power Pl Eng 46:88-9 S '42

See also

Leveling

ALTON railroad

Interest payment plan. A. Jansen. Barron's 22:19 S 7 '42

ALUM

Alum substitutes. H. E. Duston. Paper Ind 24:307-9 Je '42

See also

Aluminum sulfate

Alums

ALUMINA

Clays and high-silica bauxites for alumina production; summary of report by Advisory committee on metals and minerals. Chem & Met Eng 49:138-40 S '42; Same cond. Metal Prog 42:197-200 Ag '42; Same cond. Min Cong J 28:18-21 O '42; Abstracts. Metals & Alloys 16:300+ Ag '42; Min & Met 23:507-8 O '42

Decomposition of certain acetylenic carbinols. A. F. Thompson, jr. and C. Margnetti. bibliog Am Chem Soc J 64:573-6 Mr '42

Dehydrating liquids and gases with granular adsorbents; Florite, alumina and silica gel. R. G. Capell and R. C. Amero. flow sheets Oil & Gas J 41:37-9 Je 18 '42

Drying of gases by activated alumina. il diag Engineering 152:406-7 N 21 '41

Effect of alkali promoter concentration on the decomposition of ammonia over doubly promoted iron catalysts. K. S. Love and S. Brunauer. bibliog Am Chem Soc J 64:745-51 Ap '42

Equilibrium studies in the system $FeO—Al_2O_3—SiO_2$. R. B. Snow and W. J. McCaughey. bibliog il diags Am Cer Soc J 25:151-60 Mr 15 '42

Fire clay will have to supply alumina. W. Stout. Brick & Clay Rec 101:50 S '42

Hydrogenation of alkyl phenyl ketones in the presence of copper alumina catalysts. V. N. Ipatieff and V. Haensel. Am Chem Soc J 64:520-1 Mr '42

Low-grade domestic bauxite and clay recommended as source of alumina. Steel 111:54-5 Ag 10 '42

Solubilizing the alumina in kaolins by preheating in gases other than air; abstract. G. F. Huttig and E. Herrmann. Chem & Met Eng 49:156 Mr '42

Topaz development as a source of alumina. B. C. Burgess. flow sheets bibliog il map Am Cer Soc Bul 21:135-9 Jl 15 '42; Abstract. Brick & Clay Rec 100:40 My '42

See also

Alunite

Bauxite

Corundum

ALUMINUM

Alternates for light metals. il diags Product Eng 13:186-91 Ap '42

Aluminum, a magic mineral. L. H. Strack. 56p $1 Harper '42

Aluminum, high on list of critical metals. A. F. Macconochie. il diag Steel 111:66-8+ O 26 '42

Annual aluminum production rate to exceed 2 billion pounds by end of '43; abstract. T. D. Jolly. Steel 110:35+ Je 1 '42

Development and comparison of two procedures for the aluminium reduction method for determining oxygen in steel; general summary showing applicability of the aluminium reduction method. N. Gray and others. diags Iron & Steel Inst J 143:321-31, pl 48 no 1 '41

Electrochemistry of baths of fused aluminum halides; aluminum as a reference electrode. R. G. Verdieck and L. F. Yntema. bibliog diag J Phys Chem 46:344-52 Mr '42

ALUMINUM—*Continued*

Far ultraviolet reflectivities of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42

Fluxes for aluminium alloys; practical precepts for melting, welding, and soldering. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 46:181-3, 235-6 Ap 4, My 2 '42

Light metals in America; enormous expansion of production. Chem Age (Lond) 47:302-3 O 3 '42

Manufacture and processing of aluminum and its alloys. P. P. Zeigler. Mech Eng 64: 106-8+ F '42

Nuclear photo-effect on sulphur, aluminum, and magnesium. O. Huber and others. Phys R 60:910 D 15 '41

Over-all linear expansion of three face-centered cubic metals (Al, Cu, Pb) from —190 degrees cent. to near their melting points. J. W. Richards. diags Am Soc for Metals Trans 30:326-34 bibliog(45 references, p333-4); Discussion. 334-6 Je '42

Plated aluminum in the war program. R. F. Yates. il Metal Finishing 40:295-6 Je '42

Race for metals. il map Fortune 25:84-7+ Mr '42

Sources of aluminum. Can Chem & Process Ind 26:277 My '42

Structure of evaporated films of chromium and aluminum on glass. A. R. Oliver. bibliog Phys R 61:313-14 Mr 1 '42

Study of the action of an aluminum-aluminum chloride catalyst in Friedel-Crafts reactions; benzoylation. O. Grummitt and E. N. Case. bibliog Am Chem Soc J 64: 878-80 Ap '42

Ultraviolet reflectance characteristics of various materials. A. H. Taylor. Illum Eng 36:927-30 N '41

Use of amalgamated aluminum as a catalyst in the Friedel and Crafts reaction. L. I. Diuguid. Am Chem Soc J 63:3527-9 D '41

WPB plans added 24-hour loads on generators; new aluminum and magnesium production program. Elec W 117:823-4 Mr 7 '42

Why are we short of aluminum? huge quantities of electricity needed. H. W. Roberts. il diag Sci Am 166:232-4 My '42

X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research Nat Bur Stand 29:177-81, pl 1-4 Ag '42

See also

Alumina

Thermit

Analysis

Determination of aluminum in manganese and aluminum bronzes using the mercury cathode cell. A. C. Holler and J. P. Yeager. bibliog il Ind & Eng Chem Anal ed 14: 719-20 S 15 '42

Gravimetric determination of aluminum in magnesium alloys; benzoate-oxine method. V. A. Stenger, W. R. Kramer and A. W. Beshgetoor. Ind & Eng Chem Anal ed 14: 797-8 O 15 '42

Polarographic analysis; application of the method to aluminium and its alloys. A. C. Coates and R. Smart. diag Soc Chem Ind J 60:249-51 O '41

Rapid determination of aluminium in magnesium alloys by means of 8-hydroxyquinoline (oxine). C. H. Wood. Soc Chem Ind J 61:29-31 F '42

Cleaning

New cleaning method for aluminum and magnesium. Aviation 41:137+ Ag '42

Protective measures for aluminum equipment. H. J. Fahrney and R. B. Mears. Chem & Met Eng 49:89 Jl '42

Silver and aluminum polishes. C. T. Small. il Chem Ind 49:648-50 N '41

Conservation

Aluminum in army searchlights replaced by steel stampings. il Product Eng 13:629 N '42

Aluminum scrap conservation. A. J. T. Eyles. Iron Age 149:51+ F 5 '42

Aluminum scrap drive far below expectation. Comm & Fin Chr 156:24 Jl 2 '42

Complete segregation necessary in getting the most out of aluminum scrap. il Automotive & Aviation Ind 87:37+ Jl 15 '42

Conservation of aluminum. il Iron Age 148: 35-9 N 27 '41

Governs aluminum for patterns; orders of the WPB. M. E. Kohler. Foundry 70:137-8 Je '42

Increasing recovery from aluminum scrap. Steel 110:85 Mr 2 '42

Let's look at substitutes. il Factory Management 100:73-5+ F '42

Problems of changing from aluminum to cast-iron pistons. W. S. James. diags S A E J 50:177-87 My '42

Salvage of aluminum and magnesium castings. Product Eng 13:355-6 Je '42

Watthour meters; savings of critical materials through utilization of alternates. G. R. Sturtevant. il Gen Elec R 45:589-90 O '42

Zinc base die casting alloys with lowered aluminum. B. E. Sandell. Metal Prog 40: 903+ D '41

Joining to steel

Press-forge joining aluminum and steel. il Iron Age 150:62A-62B Jl 30 '42

Metallography

Examination of spot welds in Alclad 24S-T. W. F. Hess, R. A. Wyant and B. L. Averbach. il Welding J 21:sup348-52 Jl '42

Revealing the microstructure of Alcoa 24S alloy. F. Keller and R. A. Bossert. il Metal Prog 41:63-5, 67-72 Ja '42

Paint

Aluminum pigment, paint under allocation. Oil Paint & Drug Rep 141:7+ Mr 16 '42

Aluminum substitutes. Oil Paint & Drug Rep 142:46 O 26 '42

Sparks from aluminum-painted steel; abstract. T. S. E. Thomas. Metals & Alloys 15:158 Ja '42; Same. Oil & Gas J 41:44 Jl 2 '42

Substitutes for aluminum paints made available. Mach 48:160-1 Je '42

Technology of aluminum pigments. Paint Oil & Chem R 104:33+ F 12 '42

Ultraviolet reflectance characteristics of various materials. A. H. Taylor. Illum Eng 36: 927-30 N '41

Prices

Price schedule; aluminum scrap and secondary ingot. Iron Age 149:124+ Ja 1 '42

Virgin aluminum 99% plus, delivered; monthly, 1929-1941; tabulation. Iron Age 149:187 Ja 1 '42

Protection

Aircraft electroplating. R. R. Janssen. Metal Finishing 40:247-8 My '42

Anodic and surface conversion coatings on metals. J. D. Edwards. il Electrochem Soc Trans 81 (preprint 18):251-67 bibliog(42 titles, p265-7) Ap '42

Anodic coatings on aluminum, their brittleness. H. N. Hill and R. B. Mason. il Metals & Alloys 15:972-5 Je '42

Anodic treatment of aluminum by the chromic acid process; abstract. L. G. Tubbs. Iron Age 149:66 Je 25 '42

Anodic treatment of aluminum in the chromic acid bath. O. F. Tarr, M. Darrin and L. G. Tubbs. bibliog Ind & Eng Chem 33:1575-80 D '41; Same. Metal Finishing 40:106-11 F '42

Anodizing aircraft parts; composite of abstracts. Metals & Alloys 14:774+ N '41

Anodizing tank short circuits overcome; linings of Unichrome Resist sheet. O. H. Loven. il diag Iron Age 150:98-100 O 1 '42

Automatic metal spraying; equipment applies protective finish for aircraft cylinders. il Steel 110:92+ Mr 9 '42

Cathodic protection of aluminum equipment. R. B. Mears and H. J. Fahrney. bibliog diags Am Inst Chem Eng Trans 37:911-23; Discussion. 923-5 D '41

ALUMINUM—Protection—*Continued*

Chemical finishes for aluminum alloys. Iron Age 150:47-51 Jl 23 '42

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34:920-4 Ag '42; Same. Metal Finishing 40:527-31 O '42

Copper-oxide rectifiers for electroplating and anodizing. L. W. Burton. diags Metal Finishing 40:243-6 My '42

Detroit Rex processing machine for aluminum alloys. il Metal Finishing 40:29-30 Ja '42

Finishes for aluminum die castings. A. E. Keskulla and J. D. Edwards. bibliog Am Soc T M Proc 41:931-40 '41; Same. Metal Finishing 40:220-4+ Ap '42; Abstract. Metals & Alloys 16:318+ Ag '42

Handling wrought aluminum alloys; protective measures in storing and in transport. Chem Age (Lond) 47:299-300 O 3 '42

Heat treating aluminum aircraft parts. Iron Age 149:47-9 My 21 '42

Production metallizing; aluminum alloy airplane engine parts. H. E. Linsley. il Aero Digest 40:154, 159+ Ja '42

Protective measures for aluminum equipment. H. J. Fahrney and R. B. Mears. il Chem & Met Eng 49:86-9 Jl '42

Selection of aluminum alloys and processes for increased aircraft production. E. Engel. Aero Digest 41:223-4+ Jl '42

Surface treatment by diffusion; abstract. Metals & Alloys 15:306+ F '42

Use of rectifiers for anodizing. J. C. Bogle. il Metal Finishing 40:129-30+ Mr '42

Utility enamel finishes for light alloy castings. Iron Age 150:49-52 O 29 '42

Welding

Aircraft spot welding research; investigation of surface treatment of Alclad 24S-T in preparation for spot welding. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup257-65 Je '42

Aluminum alloy resistance spot welding; abstract. P. H. Merriam. Chem & Met Eng 49: 145-6 Ja '42

Aluminum welding fluxes; abstract. Metals & Alloys 14:779-80 N '41

Anti-glare welding goggles; eliminates glare from aluminum welding operations. il Aero Digest 40:122+ Je '42

Arc welding aluminum. G. G. Landis. il diags Marine Eng 47:107-8 F '42

Care of flux in light alloy welding. diags Iron Age 150:49-52 Jl 16 '42

Cleaning Alclad for production. F. Morris. il Aviation 41:85+ Ap '42; Same abr. Welding J 21:sup197 Ap '42

Condenser discharge welding of aluminum alloys. J. W. Dawson and B. L. Wise. il Welding J 20:857-64 D '41

Condenser type aluminum spot welder. il Iron Age 149:33 Ja 15 '42

Corrosion resistance of welded joints; a review of the literature from Jan. 1, 1937 to Jan. 1, 1941. W. Spraragen and H. H. Chiswik. il Welding J 21:sup222-33 My '42

Development of zero welding by Ford at Willow Run. F. M. Reck. il Aero Digest 41:164, 167+ O '42

Develops Burt-weld lens for aluminum welders. Steel 111:109 Ag 17 '42

Effect of weld spacing on the strength of spot-welded joints. R. Della-Vedowa and M. M. Rockwell. il diag Welding J 21: sup514-23 O '42; Abstract. Iron Age 150: 49 O 22 '42

Examination of spot welds in Alclad 24S-T. W. F. Hess, R. A. Wyant and B. L. Averbach. il Welding J 21:sup348-52 Jl '42

Finishing welded light metals; abstract. Metals & Alloys 15:1022 Je '42

Fixture welding with an expansion gun. diags Am Mach 86:1123 O 1 '42

Fluxes for aluminium alloys; precepts for melting, welding, and soldering. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 46:235-6 My 2 '42

Inspecting aluminum welds. Metal Prog 42: 258 Ag '42

Investigation of spot-weld test specimens; comparison of specimen types and dimensions; Alclad. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21: sup113-22 Mr '42

Joining aluminum plate to tubing; making paddles for centrifuges. H. K. Schmuck. diags Welding J 20:864 D '41

Preparation of aluminum alloy for spot welding. T. E. Piper. il Welding J 21:661-4 O '42

Salvage and reclamation of aluminum alloy coatings by welding; abstract. A. T. Ruppe and A. J. Juroff. Iron Age 149:60-1 Ap 30 '42

Sewing alclad aluminum; spot welding by the condenser discharge method. W. E. Klingeman. il Iron Age 149:69-71 My 7 '42

Some radiographic aspects of aluminum spot welds. R. C. Woods and S. L. Rich. il Welding J 21:101-4 F '42

Speeding production by automatic welding; aluminum gas tanks for Flying Fortresses. il Aviation 41:178 Jl '42

Spot welding aluminum at Lockheed. H. L. Chiles. il Iron Age 149:29-33 Ja 29 '42

Spot-welding of aluminum alloys for aircraft production. W. F. Hess. il Min & Met 23: 114-16 F '42

Stored energy welds aluminum. C. E. Smith. il diags Am Mach 86:375-8 Ap 30 '42

Structural and metallurgical properties of condenser discharge spot welds. G. S. Mikhalapov and T. F. Falls. il Welding J 21:223-9 Ap '42

Tentative standards and recommended practices and procedures for spot welding of aluminum alloys. il diags Welding J 21: 515-55 Ag '42; Excerpts. Metal Prog 42: 367+, 912-13+ S, N '42

Welding aluminum; composite of abstracts. Metals & Alloys 14:916+ D '41

X-rays of spot welds; abstract. D. W. Smith and F. Keller. Iron Age 150:48 O 22 '42

ALUMINUM, Powdered

Aluminum powder to increase bond of concrete to reinforcing steel. F. R. McMillan. Am Concrete Inst J 13:183-4 N '41

New process for aluminum powder. Metals & Alloys 16:306+ Ag '42

ALUMINUM, Structural

Light alloys in design. E. W. Thomas. Engineering 152:482-3 D 19 '41

Testing

See also

Aluminum alloys—
Testing

ALUMINUM acetate

Waterproofing heavy woolens by aluminium acetate. W. R. Lang. Textile Col 64:300 Je '42

ALUMINUM alloys

Age-hardenable aluminium; effect of indium on various alloys. W. H. Fraenkel. Automobile Eng 32:94 Mr '42

Aircraft and engines; materials. G. F. Titterton. il Metals & Alloys 15:65-6 Ja '42

Alcoa aluminum and its alloys. 131p Aluminum co. of Am, Pittsburgh '41

Aluminum alloy bead proportions. E. J. Rantsch. diags Aero Digest 40:209 Mr '42

Aluminum alloys for aircraft. T. L. Fritzlen. bibliog il Aeronautical Eng R 1:5, 7-9, 11-12 Je '42

Aluminum alloys; survey of potentialities in automobile work. il diags Automobile Eng Extra no 31:357-71 N 6 '41

Aluminium alloys; their possibilities of future development. O. Einerl and F. Neurath. Chem Age (Lond) 45:237-9 N 1 '41

Aluminum can be brazed. Iron Age 149:130 My 14 '42

Aluminum casting alloys and alloys for other purposes. 89p Aluminum co. of Am, Pittsburgh '41

Aluminum goes to war; abstract. W. Ashcroft. Metals & Alloys 15:1058+ Je '42

Aluminum-magnesium alloys resist attack. L. J. Benson and R. B. Mears. bibliog Chem & Met Eng 49:88-91 Ja '42

Aluminium pistons; details of some special casting alloys. Automobile Eng 32:242 Je '42

ALUMINUM alloys—*Continued*

Anodic treatment of aluminum in the chromic acid bath. O. F. Tarr, M. Darrin and L. G. Tubbs. bibliog Ind & Eng Chem 33:1575-80 D '41; Same. Metal Finishing 40:106-11 F '42

Arc welding aluminum. G. G. Landis. il diags Marine Eng 47:107-8 F '42

Chemical finishes for aluminum alloys. Iron Age 150:47-51 Jl 23 '42

Comparative formability of various aluminum alloys. T. H. Hazlett. il diags Iron Age 150:33-7 O 15 '42

Compositions, properties, and designations of American commercial alloys; tabulation. H. S. Jerabek, comp. Metal Prog 42:675 O '42

Conserving aluminum scrap. J. St. Peter. il Aviation 41:99+ My '42

Constitution of alloys of aluminum with magnesium and iron; abstract. H. W. L. Phillips. Chem & Met Eng 48:131 D '41

Controlling physical properties of rivets; Glenn L. Martin company technique. J. H. Eades. il Aero Digest 40:179-80, 183 My '42

Economic advantages of certain aluminum alloys for aircraft construction. K. F. Thornton. Aeronautical Eng R 1:5-7, 9, 11 Ag '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Electric salt bath treatment of aluminum aircraft alloys. C. Santore. il Metals & Alloys 15:254-5 F '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74 Mr 16 '42

Evaluation method for defective driven rivets. F. D. Klein, jr. il Aero Digest 39:154, 158, 162+ D '41

Extrusion of light alloys. R. Worsdale. Metal Prog 41:388 Mr '42

Fluxes for aluminium alloys; practical precepts for melting, welding, and soldering. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 46:181-3, 235-6 Ap 4, My 2 '42

Forging aluminum alloys. il Iron Age 150:41-6 S 10 '42

Forging aluminum alloys. H. Chase. il Am Mach 86:491-3, 644-7 My 28, Je 25 '42

Forging of light alloys; abstract. Metals & Alloys 15:316 F '42

German recovery of light metal scrap in two piston manufacturing plants. il Iron Age 149:54-8 Je 4 '42

Handling wrought aluminium alloys; protective measures in storing and in transport. Chem Age (Lond) 47:299-300 O 3 '42

Heat treating aluminum aircraft parts. Iron Age 149:47-9 My 21 '42

Heat treatment of aluminum and its alloys; abstract. Metals & Alloys 15:162 Ja '42

High strength aluminum sand casting alloy not requiring solution treatment and quench. D. Basch. il Am Soc T M Proc 41:216-18 '41

How metallurgy affects deep-drawing. K. D. Moslander. il Machine Design 14:60-5+ Ja '42

How to secure rigidity in aluminum crankcase. diags Automotive & Aviation Ind 87:76+ Ag 15 '42

Light alloy armor plate; penetration tests. Iron Age 149:41 Mr 19 '42

Light alloy castings in aircraft. Foundry 70:70-1+ Ag '42

Manufacture and processing of aluminum and its alloys. P. P. Zeigler. Mech Eng 64:106-8+ F '42; Discussion. 64:558 Jl '42

Permanent mold and die castings compared. H. Chase. il Metals & Alloys 14:698-703 N '41

Plated aluminum in the war program. R. F. Yates. il Metal Finishing 40:295-6 Je '42

Precipitation hardening. W. L. Fink. bibliog il diags J Ap Phys 13:75-83 F '42

Preparation of aluminum alloy for spot welding. T. E. Piper. il Welding J 21:661-4 O '42

Production and fabrication of some nonferrous metals and their alloys in wartime. M. A. Hunter and others. Min & Met 23:112-16 F '42

Revealing the microstructure of Alcoa 24S alloy. F. Keller and R. A. Bossert. il Metal Prog 41:63-5, 67-72 Ja '42

Selection of aluminum alloys and processes for increased aircraft production. E. Engel. Aero Digest 41:223-4+ Jl '42

Some characteristics of metal mirrors and a new gonioreflectometer. F. Benford and W. A. Ruggles. il diag Opt Soc Am J 32:174-84 Mr '42

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

Tentative standards and recommended practices and procedures for spot welding of aluminum alloys. il diags Welding J 21:515-55 Ag '42; Excerpts. Metal Prog 42:367+, 912-13+ S, N '42

Vague specifications for surface quality hamper aircraft production. C. F. Nagel, jr. il Metal Prog 41:323-9+ Mr '42

See also

Alclad
Alnico
Aluminum bronze
Duralumin

Analysis

Polarographic analysis; application of the method to aluminium and its alloys. A. C. Coates and R. Smart. diag Soc Chem Ind J 60:249-51 O '41

Protection

See Aluminum—Protection

Testing

Determination of strain distribution by the photo-grid process. G. A. Brewer and R. B. Glassco. il J Aeronautical Sci 9:1-7 N '41

Guinea pigs for tank cars. il Chem & Met Eng 49:140 S '42

Standardisation of testing methods for aluminium alloys. H. F. James. Engineering 152:355 O 31 '41

ALUMINUM bronze

Aluminum bronze; properties, uses, etc. R. A. Wilkins and E. S. Bunn. Product Eng 13:472-4 Ag '42

Aluminum bronzes commonly used in aircraft; tabulation. W. W. Edens, comp. Metal Prog 42:678 O '42

Nonferrous foundry produces variety of castings; Ampco metal inc. E. Bremer. il Foundry 70:70-2, 167-8 N '42

Analysis

Determination of aluminum in manganese and aluminum bronzes using the mercury cathode cell. A. C. Holler and J. P. Yeager. bibliog il Ind & Eng Chem Anal ed 14:719-20 S 15 '42

ALUMINUM chloride

Action of aluminum chloride on aromatic hydrocarbons; the polyethylbenzenes and tetramethylbenzenes. D. Nightingale and F. Wadsworth. bibliog Am Chem Soc J 63:3514-17 D '41

Alkylation of paraffins at low temperatures in the presence of aluminum chloride. H. Pines, A. V. Grosse and V. N. Ipatieff. diags Am Chem Soc J 64:33-6 Ja '42

Condensation of some secondary aliphatic alcohols with benzene in the presence of aluminum chloride. R. C. Huston and I. A. Kaye. bibliog Am Chem Soc J 64:1576-80 Jl '42

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Electrochemistry of baths of fused aluminum halides; aluminum as a reference electrode. R. G. Verdieck and L. F. Yntema. bibliog diag J Phys Chem 46:344-52 Mr '42

Electrochemistry of baths of fused aluminum halides; the deposition potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42

ALUMINUM chloride—*Continued*

Isolation of sulfur compounds from a California straight-run gasoline. O. L. Polly, A. C. Byrns and W. E. Bradley. bibliog Ind & Eng Chem 34:755-8 Je '42

Study of the action of an aluminum-aluminum chloride catalyst in Friedel-Crafts reactions; benzoylation. O. Grummitt and E. N. Case. bibliog Am Chem Soc J 64:878-80 Ap '42

See also

Friedel-Crafts reaction

ALUMINUM coating

Automatic metal spraying; equipment applies protective finish for aircraft cylinders. il Steel 110:92+ Mr 9 '42

ALUMINUM company of America

Alcoa edict sticks. Business Week p44, 48 S 26 '42

Alcoa feud; FBI and army investigate work stoppages at Cleveland. Business Week p85-6 Je 13 '42

Alcoa opens laboratory for study of war packaging. il Mod Packaging 15:42-5 Ag '42

Alcoa's breather. Business Week p88 O 17 '42

Alcoa's headache; jurisdictional strife growing in Cleveland plant. Business Week p56 Ag 1 '42

Alcoa's hot spot. Business Week p76 O 3 '42

Annual report. Comm & Fin Chr 155:1593 Ap 20 '42

Consent decree opens to all patents owned by Alcoa and other corporations. Comm & Fin Chr 155:1669-70 Ap 27 '42

Day after tomorrow; interviews with F. C. Frary and J. O. Chesley. A. P. Peck. Sci Am 167:152-4 O '42

Differential upset; NWLB ruling in Alcoa case. Business Week p62 F 21 '42

More power for bomber production; two dams being constructed by the Aluminum company of America. il diag Eng N 128:334-7 F 26 '42

NWLB challenged; aluminum workers, denied pay boost, are polled on strike. Business Week p57-8 Ag 29 '42

Recent expansion of the aluminum industry. T. D. Jolly. Science 96:29-32 Jl 10 '42; Same. il Comp Air M 47:6787-9 Jl '42; Same cond. Metal Prog 42:72-6+ Jl '42

Secondary offering; company criticizes anti-trust suit appeal. Comm & Fin Chr 156:1012 S 21 '42

Sells debentures privately. Comm & Fin Chr 155:2178 Je 8 '42

ALUMINUM compounds

Molecular structures of the dimers of aluminum dimethyl chloride, aluminum dimethyl bromide, and aluminum trimethyl and of hexamethyldisilane. L. O. Brockway and N. R. Davidson. bibliog Am Chem Soc J 63:3287-97 D '41

Polymerization of some derivatives of trimethylaluminum. N. Davidson and H. C. Brown. bibliog Am Chem Soc J 64:316-24 F '42

See also

Alum
Alumina

ALUMINUM dichromate

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34:920-4 Ag '42; Same. Metal Finishing 40:527-31 O '42

ALUMINUM fluosilicates

See also

Topaz

ALUMINUM foil

Paper dielectrics containing chlorinated impregnants; deterioration in d.c. fields. D. A. McLean and others. bibliog il Ind & Eng Chem 34:101-9 Ja '42

ALUMINUM founding

Aircraft engines get new heads; aluminum forgings replace castings. A. Klemin. il Sci Am 167:134 S '42

Aluminum casting alloys and alloys for other purposes. 89p Aluminum co. of Am, Pittsburgh '41

Aluminum permanent mold castings. E. G. Fahlman and H. Chase. il Iron Age 149:36-42 Ap 23 '42

Aluminium pistons; details of some special casting alloys. Automobile Eng 32:242 Je '42

Aluminum rotor casting. il Iron Age 149:49 Ap 9 '42

American foundrymen's association annual meeting; abstracts of papers. Foundry 70:146, 148 My '42

Deep finned airplane cylinder heads made on production line. E. Bremer. il Foundry 70:74-7+ S; 80-2+ O '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Fluxes for aluminium alloys; practical precepts for melting, welding, and soldering. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 46:181-3, 235-6 Ap 4, My 2 '42

High strength aluminum sand casting alloy not requiring solution treatment and quench. D. Basch. il Am Soc T M Proc 41:216-18 '41

Ladle preheater uses gas. il Foundry 70:117 Jl '42

Light alloy castings in aircraft. Foundry 70:70-1+ Ag '42

Midwest aluminum and magnesium foundry is converted to war work; illustrations. Foundry 70:126-31 Ap '42

Porosity in aluminum castings. W. Wilson, jr. il Foundry 70:64-5, 151-2 F '42; Abstract. Metals & Alloys 15:841+ My '42

Precision aluminum castings; Antioch plaster mold process. R. R. Kay. il Iron Age 149:50-4 Ap 9 '42

Ventilation of rotor casting department given special attention by motor maker. il Heating-Piping 14:430 Jl '42

War applications of aluminum die castings; Mount Vernon die casting corp. H. Chase. il Iron Age 149:47-52 Mr 26 '42

ALUMINUM halides. See Aluminum chloride

ALUMINUM hydroxide

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

ALUMINUM industry and trade

Coming revolution in metals. J. J. Hipple. il Mag of Wall St 69:245-7+ D 13 '41

Day after tomorrow; interviews with F. C. Frary and J. O. Chesley. A. P. Peck. Sci Am 167:152-4 O '42

See also

Aluminum company of America

Advertising

Priorities, yes, but this aluminum advertiser still keeps energetically at it. R. L. Pritchard. il Ptr Ink 200:18-19+ Jl 31 '42

When priorities pinch, advertising can be continued profitably; Mirro aluminum experience. R. L. Pritchard. il Ptr Ink 197:13-16 D 12 '41

Finance

See also

Aluminum company of America

Statistics

Aircraft metals; with table giving production of aluminium and magnesium, by country, 1929-1941. Economist 142:361-2 Mr 14 '42

Light metals, 1941. H. A. Franke. Eng & Min J 143:46-7 F '42

Arkansas

Aluminum production in Arkansas. Manuf Rec 111:32-3+ O '42

Hungary

Hungarian bauxite deposits and aluminum industry. For Comm W 8:26 Jl 25 '42

Southern states

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:30-1 F '42

ALUMINUM industry and trade—*Continued*

United States

Aluminum capacity to be expanded to 2,580,000,000 pounds annually. Steel 110:43-4 Mr 2 '42

America turns pro; huge program for production of airplane metals designed to overcome lead of Axis powers. H. F. Lee. Barron's 22:8 Mr 16 '42

Expansion of aluminum and magnesium production. il Manuf Rec 111:20-1 Mr '42

More light metal; WPB asks another huge increase in production. Business Week p22+ Mr 7 '42

Non-ferrous metals at war. T. E. Lloyd. Iron Age 149:119-20 Ja 1 '42

Recent expansion of the aluminum industry. T. D. Jolly. Science 96:29-32 Jl 10 '42; Same. il Comp Air M 47:6787-9 Jl '42; Same cond. Metal Prog 42:72-6+ Jl '42

ALUMINUM metallurgy

Aluminum clay; new process opens vast sources of light metal; abstract. A. W. Hixson. Sci Am 166:130 Mr '42

Aluminum from clay. Science 96:sup12 Ag 7 '42

Aluminum from western alunites; Kalunite process. E. Eichelberger. Min Cong J 27:37-9 N '41; Abstract. Chem & Met Eng 49:147-9 Ja '42

Aluminum, high on list of critical metals. A. F. Macconochie. il diag Steel 111:66-8+ O 26 '42

Aluminum output reaches for new power. T. N. Sandifer. Pub Util 29:490-4 Ap 9 '42

Aluminum production in Arkansas. il Manuf Rec 111:32-3+ O '42

Clays and high-silica bauxites for alumina production; summary of report by Advisory committee on metals and minerals. Chem & Met Eng 49:138-40 S '42; Same cond. Metal Prog 42:197-200 Ag '42; Same cond. Min Cong J 28:18-21 O '42; Abstract. Min & Met 23:507-8 O '42

Degassing of molten aluminum alloys by vibrations produced by electromagnetic fields; abstract. T. Rummel. Mech Eng 64:393-4 My '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Electrical developments of 1941; chemical industry; aluminum and magnesium. G. Bartlett. il Gen Elec R 45:31-3 Ja '42

Electrometallurgy, 1941. A. A. Center. Eng & Min J 143:93 F '42

From Arkansas' bauxite. il Chem & Met Eng 49:78-9 Je '42

Hamilton Young Castner (1858-99); a forgotten pioneer of the aluminum industry. V. H. Lord. por(bronze tablet, front) J Chem Educ 19:353-6 Ag '42

How to provide for wide-range d-c voltage adjustment in large mercury-arc rectifiers; use of voltage-regulating autotransformer; plants for producing aluminum. T. R. Rhea. il diag Gen Elec R 44:611-13 N '41

Hydro for aluminum, highest head in East; Glenville and Nantahala plants. J. E. Housley. il diags map Elec W 116:1560-2 N 15 '41

Manufacture and processing of aluminum and its alloys. P. P. Zeigler. Mech Eng 64:106-8+ F '42

More power for defense; Aluminum company of America, Glenville hydroelectric project. il Manuf Rec 110:36-7+ N '41

Processes to produce aluminum from ores in U.S. analyzed by metals group. Steel 111:57 Jl 20 '42

Production of aluminum. Can Min J 63:231 Ap '42

Why are we short of aluminum? huge quantities of electricity needed. H. W. Roberts. il diag Sci Am 166:232-4 My '42

ALUMINUM ores

See also

Alunite

Bauxite

ALUMINUM oxide. See Alumina

ALUMINUM oxychloride

Effect of potassium salts upon aluminum oxychloride hydrosol. M. W. Kelly and K. S. Rostler. bibliog J Phys Chem 46:317-25 F '42

ALUMINUM paint. See Aluminum—Paint

ALUMINUM palmitate

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:56 Ag 31 '42

ALUMINUM perchlorate

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34:920-4 Ag '42; Same. Metal Finishing 40:527-31 O '42

ALUMINUM phosphate

See also

Turquoise

ALUMINUM research

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

ALUMINUM silicates

Mineralite, a filler for plastics. S. Wein. Mod Plastics 19:66+ Mr '42

Rotenone dispersion; a comparison study of two powdered aluminum silicates used as dispersing agents. H. F. Wilson and G. L. Bender. Soap & San Chem 18:101+ O '42

See also

Beidellite

Cordierite

Feldspar

Fuller's earth

Kaolin

Montmorillonite

Pyrophyllite

Topaz

ALUMINUM stearate

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:34 S 14 '42

Metallic stearates; a review of properties and uses. A. Monsaroff. bibliog Can Chem & Process Ind 26:193-6 Ap '42; Abstract. Chem Age (Lond) 47:88-90 Jl 25 '42

ALUMINUM sulfate

Chemical treatment of trade waste; laundry wastes. F. D. Snell and J. M. Fain. plan Ind & Eng Chem 34:970-2 Ag '42

Hydration of aluminum sulfate. N. O. Smith. bibliog Am Chem Soc J 64:41-4 Ja '42

Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41

See also

Alunite

Standards

Emergency alternate specifications for sulfate of alumina adopted by A.W.W.A. board of directors. Am Water Works Assn J 34:1073-4 Jl '42

ALUMINUM ware

Cleaning

New detergent specifications for aluminumware, dishwashing-machines, and manual cleaning. Soap & San Chem 18:37 Ja '42

ALUMINUM wire. See Wire, Aluminum

ALUMINUM work

Aluminum alloys; survey of potentialities in automobile work. il diags Automobile Eng Extra no 31:357-71 N 6 '41

Aluminum can be brazed. Iron Age 149:130 My 14 '42

Aluminum can be deep drawn. C. C. Misfeldt. il diags Am Mach 86:285-9 Ap 2 '42

Cold-forming duralumin sheet; abstract. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. Metals & Alloys 16:740+ O '42

Cold-pressing properties of duralumin-alloy sheets. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. il Engineering 154:235, 258-60, 278-80; Discussion. 275 S 18-O 2 '42

Comparative formability of various aluminum alloys. T. H. Hazlett. il diags Iron Age 150:33-7 O 15 '42

Conserving aluminum scrap. J. St. Peter. il Aviation 41:99+ My '42

Die-casting aluminum aircraft cylinder heads. il diag Iron Age 148:63 N 20 '41

ALUMINUM work—*Continued*
Drawing dies for airframe stampings; Kirksite A die material performs efficiently. G. A. Brewer. il Iron Age 149:37-41 My 28 '42
Elastic theory in sheet metal forming problems. F. R. Shanley. bibliog il diags J Aeronautical Sci 9:313-33 Jl '42; Same cond. Automotive & Aviation Ind 87:112+ O 1; 33-7 O 15 '42
Fine threads in aluminum and brass. C. T. Stoeffler. diag Am Mach 86:1092 O 1 '42
Forging aluminum alloys. H. Chase. il Am Mach 86:491-3 My 28 '42 (to be cont)
Forming aluminum. 54p Aluminum co. of America, 801 Gulf bldg, Pittsburgh '41
Forming convex flanges and joggles; sheet metal aircraft parts. W. Schroeder and R. B. Glassco. il diags Iron Age 149:49-53 Je 11 '42
Formulas for calculating press fits in aluminum rings. H. N. Hill. diag Product Eng 13:659 N '42
Heat-treatment of aluminum aircraft parts. T. E. Piper. il diags Am Mach 86:1107-10 O 1 '42
Heating units remove aircraft skin wrinkles. il Iron Age 150:55 S 10 '42
Hot and cold press forgings. diags Am Mach 86:1125 O 1 '42
How metallurgy affects deep-drawing. K. D. Moslander. il Machine Design 14:60-5+ Ja '42
Hydro-press forming with rubber platens. T. H. Hazlett and W. Schroeder. bibliog il diags Iron Age 149:41-6 Je 18 '42
Impact-extrusion of aluminum. Metals & Alloys 16:126+ Jl '42
Machining aluminum and aluminum alloys. 32p Aluminum co. of Am, Pittsburgh '41
Measurement of drawing properties of aluminum sheet. G. A. Brewer and M. M. Rockwell. il diag Metal Prog 41:663-8 My '42
New training films show aluminum fabrication details. il Steel 111:60 S 28 '42
Producing suction with an air blast. il Comp Air M 47:6827 Ag '42
Riveting aluminum and its alloys. 35p Aluminum co. of Am, Pittsburgh '41
Some factors affecting the drawability of aluminum sheet. G. A. Brewer, V. N. Krivobok and M. M. Rockwell. il diags Metal Prog 42:62-5 Jl '42
Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42
Springback in flanging; curves and table for determining die-block angles. F. B. Chapman, T. H. Hazlett and W. Schroeder. diags Product Eng 13:382-3 Jl '42
Stress-strain relationships in the drawing of metals. G. A. Brewer and M. M. Rockwell. il diags Metal Prog 41:806-10 Je '42
Tools for machining aluminum. Metals & Alloys 15:636 Ap '42
25-sec. quenching for light metals. il Iron Age 150:72-3 O 22 '42
Wedge-draw vs. tension test to determine drawability. G. A. Brewer. il Metal Prog 42:216-17 Ag '42
See also
Aluminum—Welding
Aluminum founding

ALUMINUM workers. See Aluminum company of America

ALUMINUM works
Annual aluminum production rate to exceed 2 billion pounds by end of '43; abstract. T. D. Jolly. Steel 110:35+ Je 1 '42
Los Angeles's plea fails; WPB decides to build new rolling mill in Middle West. Business Week p18 My 2 '42
More aluminum for aircraft; pictures of new Aluminum co. of America rolling mill. Iron Age 150:54-5 O 15 '42
Reynolds speedup, from bauxite to finished aluminum aircraft parts. Business Week p70 O 3 '42

ALUMS
Crystal-chemical studies of the alums; coefficients of linear thermal expansion. H. P. Klug and L. Alexander. bibliog Am Chem Soc J 64:1819-20 Ag '42
Water purification and the war; effect on chemicals. N. J. Howard. Water & Sewage 80:16+ My '42

ALUNITE
Aluminum from western alunites; Kalunite process. F. Eichelberger. Min Cong J 27:37-9 N '41; Abstract. Chem & Met Eng 49:147-9 Ja '42
Beneficiation of alunite. A. Gabriel and J. Dasher. pls map U S Bur Mines Rep of Invest 3610:1-20 '42
Clays and high-silica bauxites for alumina production; summary of report by Advisory committee on metals and minerals. Chem & Met Eng 49:138-40 S '42; Same cond. Metal Prog 42:197-200 Ag '42; Same cond. Min Cong J 28:18-21 O '42

AMALGAMS
Electrolysis of rare earth acetates and the separation of europium as amalgam from other rare earths. H. N. McCoy. bibliog Am Chem Soc J 63:3432-3 D '41
Rare-earth metal amalgams; the reaction between sodium amalgam and rare-earth acetate and chloride solutions. J. K. Marsh. Chem Soc J p398-401 Je '42
Rare-earth metal amalgams; the separation of neodymium, samarium, and gadolinium. J. K. Marsh. Chem Soc J p523-6 Ag '42
Reactions involving oxygen, amalgams and hydrogen peroxide. H. A. Liebhafsky. Am Chem Soc J 64:852-6 Ap '42
Reactivity of amalgams. H. A. Liebhafsky and A. F. Winslow. Am Chem Soc J 63:3137-42 N '41
See also
Dental amalgams

AMARANTH
New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

AMAZON valley
Amazon valley; its economic assets and liabilities. S. Zink. il For Comm W 8:3-5, 19, 29 Ag 29 '42

AMBER
Study of amber spiders. A. Petrunkevitch. 464p bibliog(p451-4) pa $6 Connecticut academy of arts and sciences, New Haven '42

AMBER glass. See Glass, Colored

AMEBELODON
How to make a mastodon. C. S. Johnston. il Sci Am 165:333-4 D '41

AMERADA petroleum corporation
Amerada corporation changes name. Comm & Fin Chr 155:45 Ja 3 '42

AMERICA
Potential of inter-American economics. C. A. McQueen. map Elec Eng 61:25-30 Ja '42
Wartime price control and the Americas. S. E. Harris. For Comm W 8:12 Jl 11 '42
See also
Latin America
North America
Pan Americanism
South America
United States

Bibliography

German works relating to America, 1493-1800. P. B. Baginsky. 217p pa $4.50 New York public lib, New York '42
Theses on Pan American topics. 3d ed rev & enl 170p pa 75c Pan American union, Washington, D.C. '41

Defenses

Complete handbook on western hemisphere union. J. W. Walch. 150p, 11p pa $2.50 Platform news pub. co, 45A Free st, Portland, Me. '40
Implementing the resolutions of Rio. W. LaVarre. For Comm W 7:11+ Je 27 '42
Problems of hemispheric defense. 139p $1.50; pa $1 Univ. of California press, Berkeley '42
South America and hemisphere defense. J. F. Rippy. 101p $1.50 Louisiana state univ. press, Baton Rouge '41

AMERICA—Defenses—*Continued*

Bibliography

List of references on western hemisphere defense. H. F. Conover, comp. rev ed 39p U.S. Lib. of Congress, Division of bibliography, Washington '42

Economic conditions

Economic defense of the western hemisphere: a study in conflicts; a symposium of the Latin American economic institute. 170p $2 Am. council on public affairs, Washington, D.C. '41

Food consumption and nutrition in the Americas. R. M. Woodbury. Int Labour R 46: 245-83 bibliog(p281-3) S '42

Maps

Bibliography

Western hemisphere; an exhibition held at the New York public library; a list of maps of the world and of America from 1492 to 1942. W. W. Ristow. 27p pa 25c New York public lib, New York '42

AMERICAN academy of arts and sciences

New fellows and officers elected. Science 95: 525 My 22 '42

Permanent science fund. Science 94:432; 95: 320-1 N 7 '41, Mr 27 '42

AMERICAN accounting association

Comparison of principles and procedures; statements of accounting procedure by American institute of accountants and by American accounting association compared. R. L. Boyd. J Account 74:46-55 Jl '42

AMERICAN agricultural chemical company

Favored stocks from $10 to $25. Mag of Wall St Manual p11 Ap '42

Investment audit. H. J. Nelson. Barron's 22:13 My 11 '42

AMERICAN airlines, inc.

Annual report. Comm & Fin Chr 155:1207 Mr 23 '42

Behind latest airmail pay decisions; rate of compensation to air lines based upon individual need. S. Altschul. Barron's 22:9 My 4 '42

Granted Texas-Mexico air route. Comm & Fin Chr 155:1670 Ap 27 '42

Mail pay ordered cut. Comm & Fin Chr 155: 1301 Mr 30 '42

AMERICAN and foreign power company, inc.

Annual report. Comm & Fin Chr 155:1913 My 18 '42

AMERICAN arbitration association

Justice without delay; time and money saved when business disputes are settled by arbitration. W. Weiss. Barron's 21:9 D 29 '41

Labor disputes settled while you wait. G. L. Blumenschine. il Food Ind 14:58-9 Mr '42

AMERICAN association for the advancement of science

Abstracts of section E. Geol Soc Bul 52: 1993-2037 pt 2 D '41

A.A.A.S. bulletin. Science 95:356-7 Ap 3 '42

Gibson Island conferences; program for 1942. Chem & Eng N 20:198-200 F 10 '42

Meeting of the executive committee. Science 95:350 Ap 3 '42

Meeting, 110th, of the Association and affiliated and associated societies, Dallas, Dec. 29-Jan. 3. F. R. Moulton, ed. Science 95:133-52+ F 6; sup10 F 13 '42

Officers for 1942. Science 95:39-40 Ja 9 '42

Preliminary announcement of the Dallas meeting. F. R. Moulton. Science 94:499-502, 527-33 N 28-D 5 '41

Pacific division

Annual meeting, 26th, Salt Lake City. Science 96:121-5, 146-50 Ag 7-14 '42

Pacific division annual meeting plans. Science 95:376-7 Ap 10 '42

Southwestern division

Annual meeting plans. Science 95:349-50 Ap 3 '42

Meeting, Las Cruces, New Mexico. Science 95:556-7 My 29 '42

AMERICAN association of advertising agencies

Joint meeting with Association of national advertisers. Ptr Ink 197:13-15+ N 21 '41

Pro-advertising; joint meeting with Association of national advertisers. Business Week p44 N 22 '41

AMERICAN association of cereal chemists

Annual meeting, 28th, Chicago, May 18-21. Food Ind 14:72 Je '42

Annual meeting, 28th, Chicago, May 18-21; abstracts of papers. Can Chem & Process Ind 26:365-7+ Je '42

AMERICAN association of industrial nurses

Officers and committees. Ind Med 11:414 S '42

AMERICAN association of industrial physicians and surgeons

President's address, annual meeting, 27th, Cincinnati, April 14. T. L. Hazlett. Ind Med 11:285-6 Je '42

AMERICAN association of insurance general agents

A.A.I.G.A. convention canceled; list of officers. B. McGehean. Ins Field (Fire ed) 71:10-11 My 21 '42

AMERICAN association of motor vehicle administrators

Proceedings of ninth annual meeting, New Orleans, La., Sept. 24-26, 1941. 146p The association, 839 Woodward bldg, Washington, D.C. '41

AMERICAN association of newspaper representatives

First general convention. Ptr Ink 201:46 O 23 '42

Newspaper representatives in first meeting. Ptr Ink 199:21 Je 5 '42

AMERICAN association of oilwell drilling contractors

Annual meeting, 1st, Dallas. Oil & Gas J 40:16-18 N 20 '41

AMERICAN association of passenger traffic officers

Annual meeting, Del Monte, Nov. 11-13. Ry Age 111:879-82 N 22 '41

AMERICAN association of pathologists and bacteriologists

Annual meeting; officers. Science 95:428 Ap 24 '42

AMERICAN association of petroleum geologists

Annual meeting, 27th, Denver; abstracts of papers. Oil & Gas J 40:46+ Ap 23; 66 Ap 30 '42

Annual meeting, 27th, Denver, April 22-24. Am Assn Pet Geologists Bul 26:896-953 My '42

Artificial horizon and geological perspective. E. W. Owen. Am Assn Pet Geologists Bul 26:1185-7 Jl '42

Membership list. Am Assn Pet Geologists Bul 26:418-501 Mr '42

AMERICAN association of port authorities

American association of port authorities; thirtieth annual convention; general business meetings, Nov. 5-9, 1941. 95p Am. assn. of port authorities, T. S. McChesney, sec-treas, 2223 Short st, New Orleans '42

AMERICAN association of railroad superintendents

Annual meeting, 48th, Chicago, May 12-14. Ry Age 112:1080-7 My 30 '42

AMERICAN association of scientific workers

Complete utilization of scientifically trained personnel. H. Grundfest. Science 96:318-19 O 2 '42

AMERICAN association of textile chemists and colorists

Annual banquet, Pinehurst, N.C. Nov. 1. Am Dyestuff Rep 31:38-50 Ja 19 '42

AMERICAN association of university teachers of insurance

Annual meeting, New York, Dec. 29. East Underw 43:1+ Ja 2 '42; Nat Underw 46:3+ Ja 1 '42; Nat Underw (Life ed) 46:1+ Ja 2 '42; Weekly Underw 146:7-8 Ja 3 '42

AMERICAN association of variable star observers

Annual report, 11th. L. Campbell. Science 96:405-6 O 30 '42

AMERICAN automobile insurance company

American Automobile completing nationwide organization to write general liability lines. Weekly Underw 145:1405+ D 20 '41; East Underw 42:31+ D 19 '41

Company analysis. Spectator (Property ed) 7:40-1 Je 11 '42

AMERICAN aviation corporation

Organized to provide plywood planes and gliders for U.S. navy. Comm & Fin Chr 156:951 S 14 '42

AMERICAN bankers association

ABA appoints new division presidents. Comm & Fin Chr 156:1273 O 8 '42

A.B.A. cancels convention. Bankers Mo 59:375 Ag '42

A.B.A. war program. Burroughs Clearing House 26:13+ S '42

Annual convention, 67th, Chicago, Sept. 28-Oct. 2. Bankers M 143:410-20 N '41

Convention in print. Banking 35:1-179 S '42; Burroughs Clearing House 26:14-15+ S '42; Bankers M 145:341-62 O '42

Origin. W. E. Albig. il Banking 35:172-6 S '42

Statement of the Economic policy commission: banker in war time. Banking 34:79 Mr '42

W. L. Hemingway elected president of ABA at executive council meeting; other officers. pors Comm & Fin Chr 156:1249+ O 8 '42

Yearful ahead. H. W. Koeneke. Banking 35:7-8 S '42; Same. Comm & Fin Chr 156:1073+ S 24 '42; Excerpts. Bankers M 145:354 O '42

Agricultural commission

Association aid for farmers. D. H. Otis. map Banking 34:88-9 D '41

Savings division

Savings division birthday. il Banking 35:68-9 O '42

Trust division

Mid-winter trust conference, 23d, New York, Feb. 3-5. Trusts & Estates 74:145-6 F '42

AMERICAN bar association

Realtors, lawyers form conference group. Comm & Fin Chr 156:25 Jl 2 '42

Insurance section

Annual convention, Detroit, Aug. 24-26. Ins Field (Fire ed) 71:7+ Ag 27; 9+ S 3 '42; Ins Field (Life ed) 71:9, 18-19 S 4 '42; Nat Underw 46:1+ Ag 27 '42; Nat Underw (Life ed) 46:1+ Ag 28 '42

Public utility law section

Addresses of public interest delivered at the annual convention. R. E. Healy and others. Pub Util 30:592-624 O 22 '42

Committee reports of the ABA utility section. Pub Util 30:572-7 O 22 '42

Real property, probate and trust law section

Annual meeting, 65th, Detroit. Trusts & Estates 75:275-325 S '42

AMERICAN Bosch corporation

Government acquires control. Comm & Fin Chr 155:2002 My 25 '42

AMERICAN brake shoe and foundry company

Annual report. Comm & Fin Chr 155:818 F 24 '42

Bottom-up management; technique of William B. Given, jr. in building American brake shoe & foundry co. J. A. Murphy. Sales Management 50:18-21 My 15 '42

AMERICAN broadcasters association

Broadcasters plan new setup. Ptr Ink 201:71 O 16 '42

AMERICAN can company

Annual report. Comm & Fin Chr 155:1114-15 Mr 16 '42

How the can companies are adjusting to war. A. B. Wells. il Mag of Wall St 70:26-7+ Ap 18 '42

AMERICAN car and foundry company

Annual report. Comm & Fin Chr 155:2451 Je 29 '42

Ban on common dividend affirmed. Comm & Fin Chr 156:1463 O 26 '42

Cintas v. American car and foundry co.; summary of accounting affidavits filed on behalf of the company. J Account 74:380-3 O '42

AMERICAN ceramic society

Annual meeting, Cincinnati; abstracts of structural clay products and refractories papers. Brick & Clay Rec 100:30-40+ My '42

Annual meeting, 44th, Cincinnati; with abstracts of papers. Glass Ind 23:99-100+ Mr '42

Annual meeting, 44th; program. Am Cer Soc J 25:1-31 Ap 15 '42

Executive committee meeting. Am Cer Soc J (Bul) 21:17-23 F 15 '42

Meeting, Cincinnati, April 19-24; with abstracts of papers. Cer Ind 38:30-4+ My '42

Membership roster. Am Cer Soc Bul 21:199-224 O 15 '42

Presidential address. J. T. Littleton. Am Cer Soc Bul 21:123 Jl 15 '42

Trustees and officers for 1941-1942. Am Cer Soc J 25:32-3 Ap 15 '42

Glass division

Glass division meets at Absecon; with summaries of technical papers. Glass Ind 23:377-9+ O '42

Technical sessions at 44th annual meeting; with abstracts of papers. Glass Ind 23:175-82, 184+ My '42

AMERICAN ceramic society journal

Indexes to the Journal, v 24, 1941; comp. by the American ceramic society. Am Cer Soc J 24:393-407 D '41

AMERICAN chain and cable company

Another look at your company. Mag of Wall St 70:131 My 16 '42

Strong convertible preferred. H. Lawrence. Barron's 22:20 Ag 31 '42

Thumbnail stock appraisal. Mag of Wall St 69:321 D 27 '41

AMERICAN chemical society

Abstracts of some papers read before the Memphis meeting. Science 95:sup8, 10-11 Ap 24 '42

Brief by E. Hanson, counsel before the committee on the District of Columbia, United States Senate in re S. 2673, a bill to define the real property exempt from taxation in the District of Columbia. Chem & Eng N 20:1094-8 S 10 '42

Buffalo meeting, September 7-11; program. Science 96:9-10 Jl 3 '42

Committee on the professional training of chemists; progress report. Science 94:509-10 N 28 '41

C.I.O. protests anti-union campaign. Science 94:579 D 19 '41

District of Columbia taxation of educational institutions; hearing on Senate bill 2673; statement of C. L. Parsons. Chem & Eng N 20:1091-2 S 10 '42

Economic status of the members; committee report. Chem & Eng N 20:1289-93 O 25 '42

Fall meeting, 104th, Buffalo, N.Y. Sept. 7-11. Oil Paint & Drug Rep 142:37-9+ S 21 '42; Science 96:sup 8, 10-11 S 11 '42; Chem Ind 51:524-7 O '42

Incorporating the American chemical society. Chem & Eng N 20:1092-4 S 10 '42

Meeting, 103d, Memphis, Tenn.; staff report. Chem Ind 50:636-40, 672 My '42

Meeting in Buffalo. Chem & Eng N 20:1149-66 S 25 '42

Officers, committees, and student affiliate chapters. Chem & Eng N 20:1239-43 O 10 '42

Officers for 1942; portraits. News Ed 19:1441 D 25 '41

Official reports for the year 1941. Chem & Eng N 20:262-9 F 25 '42

Per K. Frolich elected president; other officers. Science 94:603 D 26 '41; Oil Paint & Drug Rep 140:3+ D 29 '41

Statement of condition of the Society. C. L. Parsons. Chem & Eng N 20:579-80 My 10 '42; Same abr. Science 95:482-4 My 8 '42

Gas and fuel chemistry division

Meeting, Memphis, April 22. Coal Age 47:74+ My '42

AMERICAN chemical society—*Continued*

Petroleum division

Annual meeting, Buffalo, New York. Oil & Gas J 41:14-15 S 17 '42

Rubber division

Division of rubber chemistry, A.C.S., meeting, Buffalo, Sept. 10-11; abstracts of papers. Rubber Age 51:383-8, 489-90 Ag-S '42; India Rubber W 106:582-6; 107:51-2 S-O '42

AMERICAN chicle company
Earnings, 1938-1941. Comm & Fin Chr 155:735 F 17 '42

AMERICAN cities power and light corporation
Annual report. Comm & Fin Chr 155:593 F 7 '42

AMERICAN college of dentists
Grants-in-aid. Science 95:268 Mr 13 '42

AMERICAN college of life underwriters
American College adopts long range program. Ins Field (Life ed) 71:10 Ag 28 '42; Same abr. Nat Underw (Life ed) Daily ed 46:3 Ag 20 '42
American College and C.L.U.'s co-operate in joint program; officers elected. Weekly Underw 147:396 Ag 22 '42; Same abr. East Underw 43:13 Ag 21 '42
June examinations create 207 new C.L.U.'s; list. Nat Underw (Life ed) 46:4+ Jl 31 '42
Record number get Life College awards made in Chicago. Nat Underw (Life ed) 46:7 Ag 28 '42

AMERICAN college of surgeons
Clinical congress. Science 96:375-6 O 23 '42

AMERICAN commercial alcohol corporation
Favored stocks priced from $1 to $10. Mag of Wall St Manual p6 Ap '42

AMERICAN concrete institute
Annual meeting, 38th, Chicago, Feb. 18-20. Eng N 128:317-19 F 26 '42; Concrete 50:5-6 Mr '42
Annual meeting, 38th; review. Am Concrete Inst J 13:sup [news letter] 1-7 Ap '42
Proposed change in by-laws to create junior member grade. Am Concrete Inst J 13:sup[news letter]7-8 N '41

AMERICAN cotton manufacturers association
Annual meeting, Atlanta, May 1-2. Textile World 92:70-1 My '42

AMERICAN crystal sugar company
Another look. Mag of Wall St 71:75-6 O 31 '42

AMERICAN cyanamid company
Annual report. Comm & Fin Chr 155:1826 My 11 '42
Another look. Mag of Wall St 70:344-5 Jl 11 '42
Another look. Mag of Wall St 71:77 O 31 '42
Pioneer in sulfa drugs busy on war work. Barron's 22:20 S 21 '42
Thumbnail stock appraisal. Mag of Wall St 69:260 D 13 '41

AMERICAN diabetes association
Officers, annual meeting proceedings. R. T. Woodyatt. Science 96:138 Ag 7 '42

AMERICAN drug manufacturers association
Annual meeting, 31st, French Lick Springs, Ind. May 4-7. Oil Paint & Drug Rep 141:58-63 My 11 '42

AMERICAN electroplaters' society
Annual meeting, 30th, Grand Rapids, June 8-10; program and summaries of papers. Metal Finishing 40:sup8-10, 12-15 Je '42
Annual meeting, 30th, Grand Rapids, June 8-10. Iron Age 149:61-6, 123 Je 25; 150:68-71 Jl 2 '42; Metal Finishing 40:349-53 Jl '42

AMERICAN export airlines
Application denied; operations into Central American aviation. Comm & Fin Chr 154:1489 D 13 '41
Asks CAB for route to England. Comm & Fin Chr 154:1373 D 6 '41
European routes approved. Comm & Fin Chr 155:818 F 24 '42

AMERICAN federation for clinical research
American federation for clinical research. M. A. Schnitker. Science 96:98-100 Jl 31 '42

AMERICAN federation of labor
AFL-CIO merger favored by members, leaders, but faces difficulties. Steel 110:49-50 Ja 26 '42
AFL head maps plan to control inflation. W. Green. Comm & Fin Chr 156:373 Jl 30 '42
AFL to buy billion in U.S. defense bonds. Comm & Fin Chr 155:1050 Mr 12 '42
Annual convention, 62d, Toronto, Oct. 5-14. Comm & Fin Chr 156:1549 O 29 '42
1941 convention. Monthly Labor R 53:1215-19 N '41
Roosevelt lauds AFL for labor's war work. Comm & Fin Chr 156:1354 O 15 '42
Selling A.F.L.; drive for public relations department. Business Week p95-6 O 24 '42
See also
Trade unions—
United States

AMERICAN federation of musicians
Department of justice antitrust suit. Pub Util 30:296-7 Ag 27 '42
NAB vs Petrillo: innocent stand-by gets hurt. B. B. Smith. Adv & Sell 35:18, 82-3 N '42
Petrillo extends recording ban. Ptr Ink 200:59 S 11 '42
Tackling Petrillo; Arnold accuses musicians of conspiracy. Business Week p40-1 Ag 8 '42

AMERICAN fern society
Announcement. Science 95:38-9 Ja 9 '42

AMERICAN fire and casualty company
Company analysis. Spectator (Property ed) 7:42-4 Mr 19 '42

AMERICAN foreign insurance association
A.F.I.A. in South America since 1919. L. H. Doman. East Underw 42:69+ D 12 '41
Changes in head office personnel. East Underw 43:26+ Ap 24 '42

AMERICAN foundation for pharmaceutical education
Pharmacal education foundation chartered. Oil Paint & Drug Rep 142:7+ Ag 31 '42

AMERICAN foundrymen's association
Annual meeting, 46th and first Western hemisphere foundry congress, Cleveland, April 20-24. Foundry 70:90-7+ My; 62-5, 84+ Je '42; Steel 110:54-6 Ap 27 '42; Iron Age 149:56-61 Ap 30 '42; Metals & Alloys 15:802+ My '42
Annual meeting; plans, program, committee members, awards, etc. Foundry 70:104-25+ Ap '42
New directors, chapter and group secretaries. pors Foundry 70:132, 134, 136, 185 My '42
Program of 46th annual convention. Iron Age 149:61-4 Ap 9 '42; Metals & Alloys 15:607, 609-10+ Ap '42
Western hemisphere foundry congress, Cleveland; plans. Foundry 70:72+ Ja; 61+ F; 65+ Mr '42

AMERICAN gas and electric company
Annual report. Comm & Fin Chr 155:1826 My 11 '42
Earnings, 1940 and 1941. Comm & Fin Chr 155:692 F 14 '42
Yielding over 10%. O. Ely. Barron's 22:20 F 23 '42

AMERICAN gas and power company
Annual report. Comm & Fin Chr 155:1913 My 18 '42
Secured debentures offer attractive yield. Comm & Fin Chr 155:2020 My 28 '42

AMERICAN gas association
Accountants face another major job; plans of Accounting section. L. L. Dyer. Gas Age 89:37+ Ja 15 '42
American gas association is on the job. T. J. Strickler. Am Gas Assn Proc 1941:15-19; Same. Am Gas J 155:16-18+ N '41; Same. Am Gas Assn Mo 23:375-7+ N '41; Same cond. Gas Age 88:44, 46, 54 N 6 '41
A.G.A's war stride; total effort of association directed to vital tasks. J. W. West, jr. Am Gas Assn Mo 24:173-5 My '42
Annual meeting, 23d, Atlantic City, Oct. 20-22. Am Gas Assn Mo 23:371-4, 386-90, 394-406+ N '41; Gas Age 88:21-37 N 6 '41; Am Gas J 155:9-15 N '41

AMERICAN gas association—*Continued*

Annual meeting, 24th, Chicago, Oct. 5-6. Am Gas Assn Mo 24:379-86, 404-5, 411-12, 417-22 N '42; Am Gas J 157:9-15 N '42; Gas Age 90:15-25 O 22 '42; Pub Util 30:666-70 N 5 '42

Annual natural gas convention, 37th, and 19th annual distribution conference, New Orleans, May 4-7. Am Gas J 156:12-15 Je '42; Gas Age 89:10-14+ My 21 '42

Geared for war; gas industry sets up streamlined committee. Am Gas Assn Mo 24:43-5 F '42

Joint production and chemical committee conference, New York, May 25-26. Am Gas J 156:16-17 Je '42

1941-1942 officers and section chairmen; portraits. Gas Age 90:40 O 8 '42

Production, chemical and motor vehicle men meet in New York, May 25-26. Gas Age 89:8-10+ Je 18 '42

Technical section geared to war needs. H. L. Gaidry. Gas Age 89:45-6 Ja 15 '42

Technical section launches its 1942 program. A. G. King. Am Gas Assn Mo 23:450-2 D '41

War activities of the American gas association. E. R. Acker. Gas Age 90:35-7+ Jl 16 '42

Who's who among newly-elected officers. pors Am Gas Assn Mo 23:422-4 D '41

Appliance testing laboratory

Changes in approval standards and laboratories' procedure streamlined to the war tempo. F. R. Wright. il Am Gas Assn Mo 24:245-8 Je '42

Five-year period extended in wartime modification of appliance approvals. G. E. Whitwell. Am Gas Assn Mo 24:423-4 N '42

Laboratories streamline for all-out war effort. G. E. Whitwell. Am Gas Assn Mo 24:298-300 S '42

Our laboratories' contribution to war efforts. R. M. Conner. il Am Gas Assn Mo 24:38-40 Ja '42

Research in gas; summer air conditioning at A.G.A. laboratories. R. M. Conner. il diag Am Gas Assn Mo 24:306-9 S '42

Natural gas section

Annual meeting, 37th, New Orleans, May 4-7. Oil & Gas J 40:24-5, 57, 59-60 My 7 '42; Am Gas Assn Mo 24:203-7 Je '42

Meeting, Atlantic City, Oct. 20. Am Gas Assn Mo 23:386-90 N '41

Wrinkle department; its purpose and importance. F. W. Stone. Gas Age 88:27+ D 4 '41

AMERICAN gear manufacturers association

Annual meeting, 26th, Hershey, Pa. May 10-12. Iron Age 149:60-2 My 21 '42; Am Mach 86:532d My 28 '42; Steel 110:66-7 My 18 '42; Mach 48:154 Je '42

Semi-annual meeting, 25th, Skytop, Pa. Oct. 15-17. Mach 49:206-7 N '42; Steel 111:51 O 26 '42

AMERICAN hard rubber company

Acquires complete control of Pequanoc rubber co. Comm & Fin Chr 155:359 Ja 24 '42

Merger plan. Comm & Fin Chr 154:1489 D 13 '41

AMERICAN hardware manufacturers association

Semi-annual meeting, Chicago. Steel 111:32, 50 O 26 '42

AMERICAN hide and leather company

Outlook for American Hide & Leather. Barron's 22:6 Ag 31 '42

AMERICAN home products corporation

Another look. Mag of Wall St 70:28-9 Ap 18 '42

AMERICAN hot dip galvanizers association

Galvanizers expand markets through coöperative effort; business paper copy and technical literature. il Ind Marketing 27:38, 40 Mr '42

AMERICAN industries salvage committee

American industries salvage committee formed. Marine Eng 47:154+ Ag '42

AMERICAN institute for property and liability underwriters

American Institute names its trustees. East Underw 43:20 Mr 13 '42

J. A. North, president of new educational project; other officers. Nat Underw 46:2 Ap 30 '42

New institute adopts single unified plan. S. S. Huebner. East Underw 43:29 Mr 6 '42; Nat Underw 46:10+ Mr 5 '42

Organization. East Underw 43:1+ Ja 2 '42

Property Institute plan wins approval. Weekly Underw 146:369+ F 14 '42; East Underw 43:1+ F 13 '42

Standards set by Institute. H. J. Loman. Ins Field (Chicago Conv Daily ed) 71:13 S 23 '42

AMERICAN institute of accountants

Junior accountant, his duties and opportunities. W. W. Nissley. J Account 74:246-56 S '42

Report of the president. N. L. McLaren. J Account 74:394-6 N '42

Committee on accounting procedure

Comparison of principles and procedures; statements on accounting procedure by American institute of accountants and by American accounting association compared. R. L. Boyd. J Account 74:46-55 Jl '42

Reflections on the development of accounting procedures. J. L. Dohr. J Account 74:41-5 Jl '42

AMERICAN institute of actuaries

Annual convention, Chicago. Nat Underw (Life ed) 46:1+ Je 5; 6, 16-17 Je 12 '42

AMERICAN institute of architects

Annual meeting, Detroit. Arch Rec 92:38-9+ Jl '42

AMERICAN institute of banking

Annual convention, 40th, New Orleans, June 8-11. Am Inst Banking Bul 24:2-13, 16-18, 22-7 Jl '42

End of year statement; membership and enrolment. G. T. Newell. Am Inst Banking Bul 24:17-22 Ja '42

New AIB committee chairmen announced. Comm & Fin Chr 156:183 Jl 16 '42

President Simms appoints national committees for 1942-1943. Am Inst Banking Bul 24:28-31 Jl '42

Report of Institute membership; tabulation. Am Inst Banking Bul 24:19-21 Jl '42

AMERICAN institute of chemical engineers

Meeting, Virginia Beach, Va. Nov. 3-5. News Ed 19:1238, 1362 N 25 '41

Proceedings of the 34th annual meeting; Virginia Beach, Va. Nov. 3-5. Am Inst Chem Eng Trans 37:B95-B130 D '41

Proceedings of the 34th semi-annual meeting, Boston, May 11-13. Am Inst Chem Eng Trans 38:B77-103 Je '42

Semi-annual meeting, 34th, Boston, May 11-13; abstracts of papers. Can Chem & Process Ind 26:393-4 Jl '42

Semiannual meeting, 34th, Boston, May 11-13; with abstracts of papers. Chem & Eng N 20:660-5 My 25 '42

AMERICAN institute of chemists

Chemists institute elects Egloff. Oil Paint & Drug Rep 141:5+ My 25 '42

AMERICAN institute of electrical engineers

Institute finances as reflected in 1941-42 budget. Elec Eng 60:595-6 D '41

North Eastern district meeting, Schenectady, N.Y. April 29-May 1. Elec Eng 61:314-21 Je '42

Officers and committees for 1942-43; student branches and local sections. Elec Eng 61:483-7 S '42

Pacific coast convention, 4th, Vancouver, Sept. 9-11. Elec Eng 61:524-7 O '42; Elec W News ed 118:1020-1 S 26 '42; Elec West 89:64-5 O '42

Report of the board of directors, fiscal year ending April 30, 1942. Elec Eng 61:368-81 Jl '42

Summer meeting, Chicago, June 22-26. Elec W 118:83-7 Jl 11 '42; Elec W News ed 118:3-4 Jl 4 '42; Elec Eng 61:417-32 Ag '42; Power Pl Eng 46:110 Ag '42

AMERICAN institute of electrical engineers—*Continued*

Winter meeting, New York, Jan. 26-31. Elec W 117:486-93 F 7 '42; Elec W News ed 117: 413 Ja 31 '42; Elec Eng 61:144-61 Mr '42; Power Pl Eng 46:76-8 Mr '42

AMERICAN institute of laundering (formerly Laundryowners' national association)

Help for your laundry customers. Bankers Mo 59:115 Mr '42

AMERICAN institute of marine underwriters

Mather director of American institute; other directors reelected. Weekly Underw 147: 968 O 24 '42

AMERICAN institute of mining and metallurgical engineers

Annual meeting, New York, Feb. 9-12. il Eng & Min J 143:71-2 Mr '42; Metals & Alloys 15:429+ Mr '42; Min & Met 23:154-74 Mr '42; Iron Age 149:54-60 F 19 '42; Steel 110:31-2+ F 16 '42

Complete program, 156th meeting, New York, Feb. 9-12. Min & Met 23:117-27 F '42

Election of officers for 1942. Min & Met 23: 36-7 Ja '42

Preliminary program, 156th meeting, New York, Feb. 9-12, 1942. Min & Met 23:23-8 Ja '42

Resolution adopted by the board regarding honorary memberships. Min & Met 22:601-2 D '41

Roster of officials; officers of local sections and meeting dates; portraits of section chairmen. Min & Met 23:572-3 N '42

Women A.I.M.E. members contribute their share in engineering war. pors Min & Met 23:580-1 N '42

Coal division

Annual meeting, New York, Feb. 9-11. Coal Age 47:86-94 Mr '42

Joint meeting with Fuels division, American society of mechanical engineers, Easton, Pa. Oct. 30-Nov. 1. Min & Met 22:588-90 D '41

Industrial minerals division

Fall meeting, Rolla, Mo. Oct. 23-25. Min & Met 22:585-6 D '41; Rock Prod 44:77+ D '41

Institute of metals division

Fall meeting, Cleveland and Columbus, Oct. 12-14. Min & Met 23:570-1 N '42

Fall meeting, Philadelphia, Oct. 20-22. Iron Age 148:55-8 O 30 '41; Min & Met 22:587-8 D '41

Iron and steel division

Fall meeting, Cleveland and Columbus, Oct. 12-14. Min & Met 23:570-1 N '42

Fall meeting, Philadelphia, Oct. 20-22. Min & Met 22:587-8 D '41

Petroleum division

Annual meeting, New York. Oil & Gas J 40: 12+, 42-3, 45-7, 76-7 F 12; 29, 92 F 19 '42

Fall meeting, Austin, Texas, Oct. 29-30. Oil & Gas J 41:12-13, 24, 45, 47-8 N 5 '42

AMERICAN institute of physics

First report of the war policy committee. Science 95:508-9 My 15 '42; Same. R Sci Instr 13:245-7 Je '42

Second report of the war policy committee. Science 96:89-90 Jl 24 '42

AMERICAN institute of steel construction

Annual meeting, 20th, Colorado Springs, Sept. 29-Oct. 2. Steel 111:97+ O 5 '42

AMERICAN international corporation

Annual report. Comm & Fin Chr 155:359 Ja 24 '42

AMERICAN iron and steel institute

Annual meeting, 51st, New York, May 21; addresses of W. S. Tower and H. J. French. Blast F & Steel Pl 30:635-40+ Je '42

AMERICAN leather chemists association

Annual meeting, 39th, Columbus, Ohio, June 1-2. Oil Paint & Drug Rep 141:5+ Je 8 '42

AMERICAN life convention

Annual meeting, 37th, Chicago, Oct. 5-8. East Underw 43:3+ O 9 '42; Ins Field (Life ed) 71:5+ O 9 '42; Nat Underw (Life ed) 46:1+, 17+ O 9; 2+ O 16 '42; Weekly Underw 147:874-5+ O 10 '42

Medical section 32d annual meeting, Colorado Springs, June 4-6. Nat Underw (Life ed) 46:1+ Je 5; 3+ Je 12 '42; Ins Field (Life ed) 71:10 Je 12 '42

AMERICAN light and traction company

Asset value. O. Ely. Barron's 22:20 Jl 20 '42

To liquidate to comply with SEC order. Comm & Fin Chr 155:1593-4 Ap 20 '42

AMERICAN lighting equipment association

How public relations minded association staged comeback. J. Markel. il Ptr Ink 197:17-20 D 19 '41

AMERICAN locomotive company

American Locomotive; with orders for tanks, gun carriages, bombs and shells. il Fortune 25:78-83+ F '42

Recapitalization expected. H. Lawrence. Barron's 22:20 O 19 '42

Year-end statement. W. C. Dickerman. Comm & Fin Chr 155:593 F 7 '42

AMERICAN management association

Annual production conference, New York, May 13-14. Am Mach 86:532m My 28 '42

Insurance division meeting, Cleveland. Nat Underw 45:4+ D 11 '41

Insurance division meeting, New York, May 27-28. East Underw 43:30 My 29 '42; Nat Underw 46:4+ My 28 '42

AMERICAN marketing association

Proceedings of the Mid-year convention, Ann Arbor, June 12-13. E. H. Gault, ed. 52p pa $1 Univ. of Michigan, School of business administration, Ann Arbor '42

AMERICAN meat institute

Science sells meat; Institute's campaign to tell of vitamins et al. succeeds. Business Week p63-4 D 13 '41

AMERICAN medical association

A.M.A. cuts in; fight over which manufacturers may get scarce drugs. Business Week p58 Ap 25 '42

Annual convention, Atlantic City. Science 95:620-1 Je 19 '42

Anti-trust charges upheld against A.M.A. Comm & Fin Chr 156:111 Jl 9 '42

Awards for exhibits. Science 95:642-3 Je 26 '42

Trust guilt confirmed on appeal. Oil Paint & Drug Rep 141:3+ Je 22 '42

AMERICAN metal company, limited

Officers lose in court; accounting ordered. Comm & Fin Chr 155:1207 Mr 23 '42

AMERICAN mining congress

Annual meeting, 44th, Cleveland, Feb. 6. Min Cong J 28:40-1+ Mr '42

Coal division annual meeting, Pittsburgh, Nov. 21. Coal Age 46:124+ D '41; Min Cong J 27:50-3 D '41

Coal division; 1942 convention program outlined; subjects for papers, state chairmen. Min Cong J 27:48-9 D '41

Coal division 19th annual meeting, Cincinnati, April 27-28. Min Cong J 28:38-9+ My; 36-53 Je '42; Coal Age 47:51-8+ Je '42

Coal division 19th annual meeting; officers, committee members, program. Min Cong J 28:36-44 Ap '42

Mining congress aids industry in war effort. J. D. Conover. il Min Cong J 28:42-5 Mr '42

Trade agreement negotiations with Mexico and Bolivia; Mining congress presents industry's position. J. D. Conover. il Min Cong J 28:32-3+ Je '42

Western division

Metal mine war conference, Salt Lake City; program, officers' and speakers' portraits. Min Cong J 28:29-31 N '42

AMERICAN municipal association

Addresses delivered at the 18th annual conference, Chicago, Oct. 23-25, 1941. 154p The association, 1313 E. 60th st, Chicago '41

AMERICAN museum of natural history
Annual report. A. P. Osborn. Science 95:558 My 29 '42
Hall of North American mammals. Science 95:348 Ap 3 '42
New kodachrome slide series of the American museum of natural history. Science 95:295 Mr 20 '42
Resignation of Dr Roy Chapman Andrews as director. Science 94:482 N 21 '41
Retirements and appointments. Science 96:78-9 Jl 24 '42

AMERICAN mutual life insurance company
Charges Fischer ouster suit part of proxy fight. Nat Underw (Life ed) 46:24 F 13 '42
Commissioners defend Iowa department head in connection with American Mutual. East Underw 42:9 D 5 '41
Seek Fischer ouster in American Mutual case. Nat Underw (Life ed) 45:3+ N 21 '41

AMERICAN mutual reinsurance company
Mutual reinsurance company in campaign; first annual meeting. East Underw 43:24 Ap 10 '42
Ringquist president of American Mutual Reinsurance; other officers. Weekly Underw 145:1065 N 8 '41

AMERICAN oil chemists society
Fall meeting, 16th, Chicago, Oct. 8-9. Soap & San Chem 18:41+ N '42

AMERICAN optical company
American optical company, Southbridge, Mass. il Am Cer Soc Bul 21:180-6 S 15 '42
Trust suit suspended. Comm & Fin Chr 156:1571 N 2 '42

AMERICAN paper and pulp association
Annual meeting, 65th, New York, Feb. 15-20. Paper Tr J 114:80+ F 19 '42; Paper Ind 23:1218+ Mr '42

AMERICAN petroleum industries committee
A.P.I.C. is ten years old. pors Nat Pet N 34:32-3 S 9 '42

AMERICAN petroleum institute
Eastern district of Production division annual meeting, Pittsburgh, April 9-10. Oil & Gas J 40:14, 31, 50, 83 Ap 16 '42
Mid-continent district of Production division, meeting, Tulsa. Oil & Gas J 40:12-14, 36 Ap 2 '42
Officers and directors, general committees, 1942. Am Pet Inst Proc 22(1):118-23 '41
Pacific Coast district of Production division, meeting, Los Angeles. Oil & Gas J 40:24+ Mr 19 '42
Southwestern district of Production division, spring meeting, Dallas, Feb. 26-27. Oil & Gas J 40:12-13, 47 Mr 5 '42

AMERICAN pharmaceutical association
Annual meeting, 90th, Denver, Aug. 16-21. Oil Paint & Drug Rep 142:7+ Ag 31 '42

AMERICAN pharmaceutical manufacturers association
Annual meeting, 34th, Hot Springs, Va. June 8-11. Oil Paint & Drug Rep 141:55-61 Je 15; 3+ Je 22 '42
Midyear meeting. Oil Paint & Drug Rep 140:7, 36+ D 15 '41

AMERICAN philosophical society
Astronomy during the early years of the American philosophical society. S. A. Mitchell. Science 95:489-95 My 15 '42
Autumn general meeting, Philadelphia, Nov. 21-22. Science 94:547-53 D 12 '41
Midwinter meeting; program. Science 95:39 Ja 9 '42
Officers, resident and foreign members elected. Science 95:525 My 22 '42

Library

Use of microfilms in the library of the American philosophical society. G. T. Garver, jr. Special Lib 33:76-8 Mr '42

AMERICAN physical society
Proceedings of the American physical society, Chicago, Nov. 21-22; abstracts of papers. Phys R 61:101-8 Ja 1 '42
Proceedings of the American physical society meeting at State College, Pennsylvania, June 26-27, and at Berkeley, Calif. July 11, 1942; abstracts of papers. Phys R 62:294-306 S 1 '42
Proceedings, 245th regular meeting, Stanford University, Dec. 19; abstracts of papers. Phys R 61:202-6 F 1 '42

AMERICAN potash and chemical corporation
Expansion of the Trona enterprise. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42
Stock ownership explained. Oil Paint & Drug Rep 142:4 N 9 '42
Stock vested as alien-held. Oil Paint & Drug Rep 142:3 N 2 '42

AMERICAN power and light company
Annual report. Comm & Fin Chr 156:246-7 Jl 20 '42
Electric bond & share co. units ordered dissolved; SEC moves against American power and light co. and the Electric power & light corp. Comm & Fin Chr 156:780 Ag 31 '42
Not to oppose SEC dissolution order. Comm & Fin Chr 156:862 S 7 '42
Offers amendment for protection of officers in special cases involving suits or claims. Comm & Fin Chr 155:497 Ja 31 '42

AMERICAN public health association
Annual meeting, St Louis, Oct. 24-29. Eng N 129:614-15 N 5 '42

AMERICAN public power association
Public power advocates organize association; super-service company and trade association projected for municipal plants and REA cooperatives. Elec W 116:2051 D 27 '41

AMERICAN public works association
Annual meeting, 48th, Cleveland. Eng N 129:603 O 29 '42
Annual meeting, New Orleans, Oct. 26-29. Eng N 127:631-2, 743-5 N 6, 20 '41

AMERICAN pulp and paper mill superintendents association
Annual meeting, 23d, Grand Rapids, June 16-18. Paper Tr J 114:35-8+ Je 25 '42; Paper Ind 24:376+ Jl '42

AMERICAN radiator and standard sanitary corporation
Consolidated income account, 1938-1941. Comm & Fin Chr 155:1207+ Mr 23 '42

AMERICAN railway bridge and building association
Annual meeting, 49th, Chicago, Oct. 20-22. Ry Age 113:686-9, 733-7 O 31-N 7 '42

AMERICAN railway engineering association
Annual meeting, 43d, Chicago, March 17-19. Ry Age 112:588-614+ Mr 21 '42; Eng N 128:462-3 Mr 26 '42
Engineers put war needs first; American railway engineering association adopts emergency provisions of specifications. il Ry Age 112:1230-4 Je 27 '42

AMERICAN Red cross. See Red cross

AMERICAN republics
Third meeting of ministers of foreign affairs of the American republics. Int Labour R 45:416-20 Ap '42

AMERICAN road builders association
Annual meeting, Memphis, March 2-5. Eng N 128:390-3 Mr 12 '42

AMERICAN rolling mill company
Behind latest earnings reports. H. Lawrence. Barron's 22:13 N 2 '42
Consolidated income account, 1939-1941. Comm & Fin Chr 155:1402 Ap 6 '42

AMERICAN safety razor corporation
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:591 S 19 '42

AMERICAN savings and loan institute
Webb heads Institute; other officers. Comm & Fin Chr 155:1055 Mr 12 '42

AMERICAN savings life insurance company
American Savings Life control goes to T. P. Beasley. Nat Underw (Life ed) 45:1+ D 5 '41
Duboc offers to buy control of American Savings Life. Nat Underw (Life ed) 45:9 N 21 '41

AMERICAN smelting and refining company
Appeals court upholds company in decision on tax claim. Comm & Fin Chr 156:1203 O 5 '42

AMERICAN smelting and refining company— *Continued*
Report for 1941. Comm & Fin Chr 155:1401-2 Ap 6 '42

AMERICAN snuff company
Another look. il Mag of Wall St 70:343; 71:36 Jl 11, O 17 '42

AMERICAN soapmakers association
Meeting, 1st, Chicago. Soap & San Chem 18:45 N '42

AMERICAN society for metals
American society for metals, and the War products advisory committee aid small plant operators; types of requests listed. Iron Age 149:58-9 My 28 '42
Annual meeting, 23d, Philadelphia, Oct. 20-24; technical program and reports of officers, etc. Am Soc for Metals Trans 29:1037-71 D '41
Congress, 24th, Cleveland. Iron Age 150:37-41 O 22 '42

AMERICAN society for testing materials
ASTM takes action on standards for 1941; committee meetings. Ind Stand 12:271-5 O '41
Annual meeting, 45th, Atlantic City, June 22-26. Iron Age 150:59-63 Jl 9 '42; Ry Age 113:9-12 Jl 4 '42; Eng N 129:4-6 Jl 2 '42; Foundry 70:63+ Ag '42; Heating-Piping 14:483 Ag '42; Metals & Alloys 16:83-4+ Jl '42
Committee meetings, Cleveland, March 2-6. Eng N 128:448 Mr 19 '42
60 oil company technologists active in committee D-2 work on petroleum products and lubricants. Nat Pet N 34 pt2:R219 Jl 29 '42
Standards. Science 95:473-4 My 8 '42

AMERICAN society for the prevention of cruelty to animals
Angel in top hat. Z. Steele. 319p bibliog(p303-9) $3.50 Harper '42

AMERICAN society for X ray and electron diffraction
American society for X-ray and electron diffraction becomes Associated society of the Institute of physics. J Ap Phys 13:141 Mr '42

AMERICAN society of bakery engineers
Annual meeting, 19th, Chicago, March 9-12. Food Ind 14:69 Ap '42

AMERICAN society of civil engineers
Annual convention, 72d, Minneapolis. Eng N 129:144-6 Jl 30 '42
Annual meeting, New York, Jan. 21-23. Eng N 128:168-71 Ja 29 '42
Extracts from annual report of the Board of direction for 1941. Civil Eng 12:108-9 F '42
Honorary membership awarded to five engineers. Civil Eng 12:52-6 Ja '42
Joint meeting with Engineering institute of Canada, Niagara Falls, Ont. Oct. 13-15. Civil Eng 12:630-2 N '42; Eng N 129:536-8 O 22 '42
Launching the Society, 1852; as viewed from the ninetieth anniversary, November 1942; chronological list of important events; scroll from British society; other historical data. il Civil Eng 12:629-30, 633-7, sup9 N '42
Marks ninetieth year of organization. Eng N 129:616 N 5 '42
Membership of society committees; distribution of committee personnel by states and by employment. C. W. Okey. Civil Eng 12:519 S '42
Progress of Society's hydraulic research. J. C. Stevens. il Civil Eng 12:113-14 F '42
Society prizes and medals to be awarded; portraits and sketches. Civil Eng 12:49-52 Ja '42
Society's contribution to the war effort. E. B. Black. Civil Eng 12:507-8 S '42
Spring meeting, Roanoke, April 22-23. Eng N 128:742-3, 746-7 Ap 30 '42
Statistical data compiled from 1942 reports of student chapters; tabulation. Civil Eng 12:649-50 N '42

AMERICAN society of heating and ventilating engineers
ASHVE in the war. S. H. Downs. Heating-Piping 14:251+ Ap '42
A.S.H.V.E. sets Aug. 17-22 as War on fuel waste week. il Dom Eng 160:30-1+ Ag '42
Annual meeting, 48th, Philadelphia, Jan. 26-28. Heat & Ven 39:63-4+ F '42; Heating-Piping 14:146-8, 191-207, 262-72 F-Ap '42; Dom Eng 159:68, 70 F '42
Semi-annual meeting, St Paul, June 15-17. Heating-Piping 14:515-21 Ag '42; Dom Eng 160:53 Jl '42

AMERICAN society of international law
Proceedings at its thirty-sixth annual meeting held at Washington, D.C., April 25, 1942. 107p The society, 700 Jackson pl, NW, Washington, D.C. '42

AMERICAN society of mammalogists
Annual meeting; officers. Science 95:427-8 Ap 24 '42

AMERICAN society of mechanical engineers
Aims and objectives. H. H. Snelling. Mech Eng 64:373-6 My '42
Annual meeting, New York. Metals & Alloys 15:116+ Ja '42
Annual meeting, 62d, New York, Dec. 1-5. Mech Eng 64:51-71 Ja '42
Annual meeting, 62d, New York, Dec. 1-5. Power Pl Eng 46:80-3 Ja '42
Annual meeting, 62d, New York; abstracts of power plant papers. diags Power 85:973-82 Mid-D '41
Awards. Science 94:535-6 D 5 '41
Council reports for 1941; Finance committee report, 1940-1941. Mech Eng 64:40-50 Ja '42
Fall meeting, Rochester, Oct. 12-14. Mech Eng 64:814-15 N '42; Am Mach 86:1254 l O 29 '42
Honorary memberships; officers. Science 94:556 D 12 '41
Power man heads ASME; James W. Parker; other officers. pors Power 85:971-2 Mid-D '41
Semi-annual meeting, Cleveland, June 8-10. Mech Eng 64:567-8 Jl '42
Semi-annual meeting, Cleveland, June 8-10. il Steel 110:56-9 Je 15 '42; Iron Age 149:98-100 Je 18 '42
Semi-annual meeting, Cleveland, June 8-10; abstracts of papers. Oil & Gas J 41:31 Je 18 '42
Semi-annual meeting, Cleveland, June 8-10; power plant discussion. Power Pl Eng 46:90-1 Jl '42
Semi-annual meeting, Cleveland, June 8-10; railroad sessions. Ry Mech Eng 116:287-302 Jl '42
Spring meeting, Houston, Texas, March 23-25. Mech Eng 64:410-12 My '42

AMERICAN society of naturalists
Officers and members elected. Science 95:297 Mr 20 '42

AMERICAN society of refrigerating engineers
A.S.R.E. standards procedure. Refrig Eng 44:200A-200B S '42
Constitution and by-laws; revised by constitution committee and approved by membership, May, 1942. Refrig Eng 44:insert 1-8 Ag '42
Headquarters now at 50 West 40th, New York city. il Refrig Eng 43:103 F '42
History of the Philadelphia section. J. Contel. pors Refrig Eng 44:303-4 N '42
Spring meeting, Skytop, Pa. June 7-9. Refrig Eng 44:38-9+ Jl '42

AMERICAN society of tool engineers
Annual meeting, 10th, St Louis, March 26-28. Iron Age 149:68D, 69-72 Ap 2 '42; Steel 110:69-70 Ap 6 '42
War production conference, Springfield, Mass. Oct. 16-17. Iron Age 150:63-7 O 22 '42; Am Mach 86:1254n-1254o O 29 '42; Mach 49:211-12 N '42; Steel 111:67-8 N 2 '42

AMERICAN society of tropical medicine
Annual meeting, 37th, St Louis, Nov. 10-13. Science 94:510-11 N 28 '41

AMERICAN spice trade association
Annual convention, 36th, New York, May 11-13. Oil Paint & Drug Rep 141:7+ My 18 '42

AMERICAN standards association
American standards association and the development of war standards. Science 96:153-4 Ag 14 '42

AMERICAN standards association—*Continued*

ASA in the war effort. Ind Stand 13:167-8 Je '42

Annual meeting, New York, Dec. 10. Elec Eng 61:55-6 Ja '42

High-spots of ASA work for 1941. R. E. Zimmerman. Ind Stand 13:5-7 Ja '42

Officers for 1942. Ind Stand 13:4 Ja '42

69 new standards, 15 new projects mark most active year for ASA. R. P. Anderson. Ind Stand 13:7-10 Ja '42

Standards assn. in deal with WPB and OPA. Oil Paint & Drug Rep 142:3 Ag 10 '42

Standards association to aid in pegging price to quality of product. Steel 111:55 Ag 10 '42

Two new members are elected to ASA board of directors. Ind Stand 13:36-7 F '42

AMERICAN statistical association

Proceedings, 103d annual meeting, New York, Dec. 27-30, 1941. Am Statis Assn J 37:117-44 Mr '42

AMERICAN steel and wire company

Firms charged with fraud in sale of cable to navy; denials issued. Comm & Fin Chr 156:747-8 Ag 31 '42

AMERICAN steel foundries

Annual report. Comm & Fin Chr 155:46 Ja 3 '42

AMERICAN steel warehouse association

Annual meeting, 33d, Chicago, May 12-13. Steel 110:63-4+ My 18 '42

AMERICAN stores company

Consolidated income account, 1938-1941. Comm & Fin Chr 155:2362 Je 22 '42

AMERICAN stove company

Thumbnail stock appraisal. Mag of Wall St 71:136 N 14 '42

AMERICAN sugar refining company

American Sugar preferred. H. Lawrence. Barron's 22:20 Mr 2 '42

Annual report. Comm & Fin Chr 155:1500+ Ap 13 '42

AMERICAN superpower corporation (Delaware)

Invitation for tenders. Comm & Fin Chr 155:2090 Je 1 '42

Report, 1941. Comm & Fin Chr 155:396 Ja 27 '42

AMERICAN telephone and telegraph company

Annual report, 57th. Comm & Fin Chr 155:911-13 Mr 2 '42

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:643 O 3 '42

Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:61-2 [S] '42

Dividend cut? Pub Util 29:166-8 Ja 29 '42

Dividend outlook. O. J. Gingold. Barron's 21:7 D 8 '41

Handling a record issue of rights; Bankers trust company methods. F. A. Auer and F. W. Boehm. il Burroughs Clearing House 26:19+ N '41

Outlook for earnings and dividend. H. F. Travis. Mag of Wall St 70:71+ My 2 '42

Probable dividend Nov. 18. J. C. Harrington. il Mag of Wall St 71:122-3+ N 14 '42

Unique position for American Telephone convertible 3s, 1956. A. Jansen. Barron's 21:19-20 D 1 '41

AMERICAN tobacco company

Annual report. Comm & Fin Chr 155:1115 Mr 16 '42

Minority group lose fight on bonus. Comm & Fin Chr 155:1402 Ap 6 '42

$100,000,000 debentures offered. Comm & Fin Chr 155:1670-1 Ap 27 '42

Tobacco tycoon; the story of James Buchanan Duke. J. K. Winkler. 337p $3 Random house, 20 E. 57th st, New York '42

AMERICAN toll bridge association

Proceedings of annual meeting, Tampa, Fla., March 17-20, 1941. L. Cross and H. J. Stradley, eds. v9 149p pa $1 The association, L. Cross, sec., Burlington-Bristol bridge, Burlington, N.J. '41

AMERICAN transit accountants association

Annual meeting, Chicago. Mass Transportation 38:307-8 O '42

AMERICAN transit association

American transit association's war emergency conference men; portraits and sketches. Mass Transportation 38:253-64 S '42

Annual meeting, 61st, Chicago. Mass Transportation 38:285-95 O '42; Pub Util 30:505-9 O 8 '42; Bus Transportation 21:446-53 O '42; Transit J 86:362-5 O '42

National war emergency conference, Chicago, Feb. 4-6. Transit J 86:41-63 F '42; Bus Transportation 21:98A-98D F '42; Mass Transportation 38:45-53 F '42

Officers and new members of the executive committee; portraits. Transit J 86:370 O '42

Interurban division

Annual meeting, Chicago. Mass Transportation 38:311 O '42

AMERICAN transit claims association

Annual meeting, Chicago. Mass Transportation 38:303-6 O '42

AMERICAN transit engineering association

Annual meeting, Chicago. Mass Transportation 38:300-2 O '42

AMERICAN transit operating association

Annual meeting, Chicago. Mass Transportation 38:291-300 O '42

AMERICAN transit purchases and stores association

Annual meeting, Chicago. Mass Transportation 38:309-10 O '42

AMERICAN type founders, inc.

Another look at your company. Mag of Wall St 70:183 My 30 '42

AMERICAN type founders sales corporation

How to hold sales force nucleus for rebuilding after war; works out problem on engineering basis. C. J. Swan. Ptr Ink 198:19-20 F 27 '42

AMERICAN university, Washington, D.C.

Educational problems in transport. L. M. Homberger. Ry Age 112:1151-2 Je 13 '42

AMERICAN utilities service corporation

Files reorganization plan. Comm & Fin Chr 156:1412-13 O 19 '42

AMERICAN viscose corporation

Courtauld award. Economist 143:115-16 Jl 25 '42

Establishes export department. Comm & Fin Chr 156:659 Ag 24 '42

Flax replaced by domestically produced rayon staple fiber; new chemical finish for rayon yarns. Comm & Fin Chr 155:257 Ja 17 '42

New yarn developed. Comm & Fin Chr 156:1686 N 9 '42

Record of thirty years development of America's leading rayon producer. il Rayon 23:81-96 F '42

What the chemical companies are doing. Barron's 22:19-20 S 21 '42

AMERICAN war heroes foundation, inc.

Canteen promoter Fecke fined; sentenced. East Underw 43:11 O 30 '42

Insurance racket is unearthed; plan to sell protection to persons interested in service men. Nat Underw (Life ed) 46:3+ O 23 '42

War heroes foundation involves life insurance. Spectator (Life ed) 148:13 Ap 23 '42

AMERICAN washer and ironer manufacturers' association

Annual meeting, 27th, Chicago. Steel 110:31 Ja 12 '42

AMERICAN water works and electric company

Annual report. Comm & Fin Chr 155:1914 My 18 '42

Waterworks interconnection, the latest war development. Pub Util 29:644-5 My 7 '42

AMERICAN water works association

A.W.W.A. objectives, 1942. Am Water Works Assn J 34:1295-7 S '42

Annual meeting, Chicago, June 21-25; abstracts of papers. Eng N 129:99-103 Jl 16 '42; Water & Sewage 80:13-17+ Jl '42

Annual meeting, Toronto; with list of papers. Am Water Works Assn J 33:2227-36 D '41

Board of directors annual meeting, New York, Jan. 19-20. Water Works & Sewerage 89:69-71 F '42

AMERICAN water works association—*Cont.*

Membership directory, committees, constitution and by-laws. Am Water Works Assn J 34:1-178, sup 1-58 pt 2 Je '42

Platform for the A.W.W.A. in the coming year. A. Wolman. Am Water Works Assn J 34:979-83 Jl '42; Same cond. Water Works & Sewerage 89:301 Jl '42

Report of the audit of Association funds for the year ending Dec. 31, 1941. Am Water Works Assn J 34:426-30 Mr '42

Report of the Committee on water works practice. Am Water Works Assn J 34:412-25 Mr '42

Wartime conference and 62d annual meeting, Chicago, June 21-25. Water Works & Sewerage 89:330-7, 399-403 Ag-S '42

Canadian section

Annual meeting, 22d, Niagara Falls, Ont. April 15-17. Water & Sewage 80:27-34+ Ap '42; Water Works & Sewerage 89:253-9 Je '42

AMERICAN waxed paper association

Paper concerns indicted for price fixing. Paper Tr J 114:14 Ja 15 '42

AMERICAN welding society

Annual meeting, 23d, Cleveland, Oct. 12-15. Iron Age 150:46-52 O 22 '42; Steel 111:31-2 O 19 '42

1941 year book; activities, constitution and by-laws, membership list, etc. map Welding J 20:1-104, sup1-20 sec 2 D '41

Officers and directors; sketches. pors Welding J 21:702+ O '42

Welding society officers. pors Iron Age 150:40-1 O 22 '42

AMERICAN wood preservers' association

Annual meeting, 38th, Minneapolis, Jan. 27-29. Ry Age 112:332-7 F 7 '42; Eng N 128:225-6 F 5 '42

AMERICAN woolen company

Annual report. Comm & Fin Chr 155:913 Mr 2 '42

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:15 O 17 '42

AMERICAN zinc institute

Annual meeting, 24th, St Louis, April 20-21. Steel 110:53 Ap 27 '42; Eng & Min J 143:77 My '42; Min Cong J 28:50 My '42

AMERIPOL. See Rubber, Artificial—Manufacture

AMIDES

Acid amides as hypnotics; barbituric acids. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2991-3 N '41

Macromolecular disorder in linear polyamides; relation of structure to physical properties of copolyamides. W. O. Baker and C. S. Fuller. bibliog pls Am Chem Soc J 64:2399-407 O '42

Relation of dielectric properties to structure of crystalline polymers; linear polyamides. W. O. Baker and W. A. Yager. bibliog Am Chem Soc J 64:2171-7 S '42

Synthesis of amines from amides through the amidodichlorides. T. S. Work. Chem Soc J p429-32 Jl '42

See also

Sulfonamides

Analysis

Identification of amides through the mercury derivatives. J. W. Williams, W. T. Rainey, jr. and R. S. Leopold. bibliog Am Chem Soc J 64:1738-9 Jl '42

AMIDINES

Associating effect of the hydrogen atom; the N-H-N bond; benziminazoles, glyoxalines, amidines, and guanidines. L. Hunter and J. A. Marriott. Chem Soc J p777-86 N '41

Chemotherapeutic comparison of the trypanocidal action of some aromatic diamidines. J. N. Ashley and others. Chem Soc J p103-16 F '42

AMINES

Antiplasmodial action and chemical constitution; carbinolamines derived from 6-methoxyquinoline. H. King and T. S. Work. Chem Soc J p401-4 Je '42

Antiplasmodial action and chemical constitution; compounds related to lepidylamine. T. S. Work. Chem Soc J p426-9 Jl '42

Application of organic amines to steam systems to reduce or eliminate corrosion. M. E. Dreyfus. Heat & Ven 39:31-3 Je '42

Aquo ammono phosphoric acids; preparation of N-substituted derivatives of the phenyl esters of amido- and diamidophosphoric acids. L. F. Audrieth and A. D. F. Toy. Am Chem Soc J 64:1337-9 Je '42

Boiling point nomograph for *n*-alkyl primary amines. D. S. Davis. Ind & Eng Chem 34:1414 N '42

Catalytic effect of water on the aminolysis of ethyl phenylacetate in *n*-butylamine. P. K. Glasoe, L. D. Scott and L. F. Audrieth. Am Chem Soc J 63:2965-7 N '41

Color reactions of sympathomimetic amines with diazonium compounds. K. H. Beyer. Am Chem Soc J 64:1318-22 Je '42

Coupling of *m*-fluorophenol with some diazotised amines and the preparation of 2-fluorobenzoquinone. H. H. Hodgson and D. E. Nicholson. Chem Soc J p645-6 O '41

Cyclic methyleneimines; hydrolysis of quaternary compounds; preparation of secondary amines. J. Graymore. Chem Soc J p29-30 Ja '42

Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

α,β-Dialkylphenethylamines; alkylation of phenylacetone. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:533-6 Mr '42

Effect of a preparation of amine oxidase on experimental hypertension. H. A. Schroeder. bibliog Science 95:306-7 Mr 20 '42

Esters of secondary hydroxyaralkylalkylamines. J. S. Buck and R. Baltzly. bibliog Am Chem Soc J 64:2263-4 O '42

Hydrogen exchange of aromatic amines with D_2O and T_2O. B. J. Fontana. bibliog Am Chem Soc J 64:2503-4 O '42

Interaction of betaine with primary aromatic amines, organic disulphides, and sodium sulphite. F. Challenger, P. Taylor and B. Taylor. Chem Soc J p48-55 Ja '42

Nature and constitution of shellac; preparation of 8,9,15-trihydroxypentadecylamine from aleuritic acid by the Naegeli-Curtius series of reactions. A. L. Davis and W. H. Gardner. bibliog Am Chem Soc J 64:1902-5 Ag '42

Optically active vasopressor amines. W. R. Brode and M. S. Raasch. bibliog Am Chem Soc J 64:1449-50 Je '42

Preparation of β-keto amines by the Mannich reaction. F. F. Blicke and J. H. Burckhalter. Am Chem Soc J 64:451-4 F '42

Relation between structure and histamine-like activity. C. Niemann and J. T. Hays. bibliog Am Chem Soc J 64:2288-9 O '42

Restricted rotation in aryl amines; preparation and resolution of N-succinyl-1-methylamino-2-methylnaphthalene and N-succinyl- 1 -methylamino-4-chloro-2-methylnaphthalene. R. Adams and A. A. Albert. Am Chem Soc J 64:1475-8 Je '42

Restricted rotation in arylamines; preparation and resolution of N-succinyl-N-ethyl-3-bromomesidine and 5-alkoxy-4-N-succinyl-4-alkylamino-1,3-dimethylbenzenes. R. Adams and H. W. Stewart. Am Chem Soc J 63:2859-64 N '41

Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides and acetates of dodecyl- and octadecylamines. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. Am Chem Soc J 64:97-101 Ja '42

AMINES—*Continued*

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine acetates; the surface tension of aqueous solutions of dodecylamine acetate. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:2067-70 S '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine hydrochlorides. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:498-503 Mr '42

Studies on high molecular weight aliphatic amines and their salts; the systems octylamine-, dodecylamine- and octadecylamine-water. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. il Am Chem Soc J 64:1516-23 Jl '42

Study of the Menschutkin reaction using radioactive hydrogen as a tracer. D. Harman, T. D. Stewart and S. Ruben. bibliog Am Chem Soc J 64:2294-6 O '42

Synthesis of amines from amides through the amidodichlorides. T. S. Work. Chem Soc J p429-32 Jl '42

See also names of amines, e.g. Butylamine; Diethylamine; Methylamine; Phenethylamine; Propylamine; Triethylamine

Analysis

Analysis of cation-active softening agents. D. Geltner and W. W. Razim. Am Dyestuff Rep 31:409-12 Ag 17 '42

AMINO acids

Adsorption of organic compounds; adsorption of ampholytes on an activated charcoal. V. H. Cheldelin and R. J. Williams. bibliog Am Chem Soc J 64:1513-16 Jl '42

Amino acid composition of cottonseed globulin preparations. T. D. Fontaine, H. S. Olcott and A. Lowy. bibliog Ind & Eng Chem 34:116-18 Ja '42

Apparent molal heat capacities and volumes of the amino and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42

Chemistry of allergens; the amino acid content of active protein and polysaccharidic protein fractions from cottonseed. J. R. Spies. bibliog Am Chem Soc J 63:2994-6 N '41

Chromatographic separation of mixtures of amino acids. J. Wachtel and H. G. Cassidy. Science 95:233 F 27 '42

Conductometric titrations in non-aqueous solutions; study of acid-base equilibria in monoethanolamine and formation of complex ammines in ethanol. J. T. Pinkston and H. T. Briscoe. J Phys Chem 46:469-73 Ap '42

Dielectric investigation of polypeptides; the dielectric increments of amino acid polypeptides. W. P. Conner, R. P. Clarke and C. P. Smyth. bibliog diag Am Chem Soc J 64:1379-87 Je '42

Physiology of the amino acids. D. D. Van Slyke. bibliog Science 95:259-63 Mr 13 '42

Poly-condensation of α-amino acid esters; poly-condensation of alanine ethyl ester. M. Frankel and E. Katchalski. Am Chem Soc J 64:2268-71 O '42

Poly-condensation of α-amino acid esters; poly-condensation of glycine esters. M. Frankel and E. Katchalski. bibliog Am Chem Soc J 64:2264-8 O '42

Quantitative investigations of amino acids and peptides; equilibria between amino acids and formaldehyde. E. H. Frieden, M. S. Dunn and C. D. Coryell. bibliog diag J Phys Chem 46:215-21 F '42

Synthesis of the three isomeric *dl*-β-pyridylalanines. C. Niemann, R. N. Lewis and J. T. Hays. bibliog Am Chem Soc J 64:1678-82 Jl '42

Utilization of food proteins. J. C. McGowan. Chem & Ind 61:150 Mr 28 '42

See also

Tryptophan

AMINOACRIDINE sulfonamide

2-Aminoacridine-7-sulphonamide. E. Aarons and A. Albert. Chem Soc J p183 F '42

AMINO alcohols. See Alcohols

AMINOBENZAMIDE

Sulfanilamide effect of substances devoid of sulfo groups. J. Hirsch. bibliog Science 96:139-40 Ag 7 '42

AMINOBENZENESULFONAMIDOTHIAZOLE. See Sulfathiazole

AMINOBENZENESULFONYL urea

Preparation of *p*-aminobenzenesulfonyl urea. E. H. Cox. Am Chem Soc J 64:2225-6 S '42

AMINOBENZOIC acid

Biochemical specificity of sulfanilamide and of other antibacterial agents. H. McIlwain. bibliog Science 95:509-11 My 15 '42

Gray hair darkened by doses of vitamin B; abstract. G. J. Martin and S. Ansbacher. Sci Am 166:120 Mr '42

Mechanism of P-aminobenzoic acid action and the parallel effects of ethyl carbamate (urethane); anti-sulfanilamide. F. H. Johnson. bibliog Science 95:104-5 Ja 23 '42

Quantitative analysis of sulfonamide bacteriostasis. H. M. Rose and C. L. Fox, jr. Science 95:412-13 Ap 17 '42

Sulfanilamide effect of substances devoid of sulfo groups. J. Hirsch. bibliog Science 96:139-40 Ag 7 '42

Urethane: absence of parallelism with the anti-sulfonamide action of p-aminobenzoic acid. G. J. Martin and C. V. Fisher. Science 95:603 Je 12 '42

AMINOBENZOQUINOLINE

5-Amino- and 1-aminobenzo(f)quinolines and derivatives. E. R. Barnum and C. S. Hamilton. bibliog Am Chem Soc J 64:540-2 Mr '42

AMINO compounds

Amino-derivatives of pentaerythritol; the formation and thermal decomposition of some quaternary salts of tetrakisdimethylaminomethylmethane. G. M. Gibson and F. G. Mann. Chem Soc J p175-81 F '42

Amino-derivatives of pentaerythritol; the thermal decomposition of the tetrahydrochlorides of tetrakismethylaminomethylmethane and of tetrakisdimethylaminomethylmethane. G. M. Gibson and others. Chem Soc J p163-75 F '42

Amino ketones; synthesis of amino alcohols and 1,3-diamino compounds from β-amino ketones. N. H. Cromwell, Q. T. Wiles and O. C. Schroeder. bibliog Am Chem Soc J 64:2432-5 O '42

Amino resins for coatings. R. W. Auten. Mod Plastics 19:186, 188+ N '41

Aromatic amino and nitro compounds, their toxicity and potential dangers. W. F. Von Oettingen. (Pub. health bul.271) 221p bibliog(p188-216) U.S. Public health service; pa 25c Supt. of doc. '41

Dielectric investigation of polypeptides; the dispersion of simple amino acid polypeptides. W. P. Conner and C. P. Smyth. bibliog diag Am Chem Soc J 64:1870-8 Ag '42

Enediols; an amino stilbenediol. R. C. Fuson and S. L. Scott. Am Chem Soc J 64:2152-3 S '42

Intermediates of pentryl analogs; chloronitroanilino alkanols. C. B. Kremer and M. Meltsner. Am Chem Soc J 64:1285-6 Je '42

Local anesthetics; β-monoalkylaminoethyl esters of alkoxybenzoic acids. J. S. Pierce, J. M. Salsbury and J. M. Fredericksen. Am Chem Soc J 64:1691-4 Jl '42

Organic solvents; polyhydric alcohols; amine compounds; chlorethylenes. S. Yates. Textile Col 64:199-201, 231-2 Ap-My '42

α-Thienylaminoalkanes. F. F. Blicke and J. H. Burckhalter. bibliog Am Chem Soc J 64:477-80 Mr '42

AMINO compounds—*Continued*

α,β-Unsaturated aminoketones; reaction of pyrrolidine and tetrahydroquinoline with bromine derivatives of benzalacetophenone. N. H. Cromwell. Am Chem Soc J 63:2984-6 N '41

See also

Amino acids

AMINOCOUMARONE dicarboxylic acid

Synthesis of 5-aminocoumarone-2,3-dicarboxylic acid cyclohydrazide; a heterocyclic analog of 4-aminophthalhydrazide. E. H. Huntress and W. M. Hearon. bibliog Am Chem Soc J 64:86-90 Ja '42

AMINOCROTONATES

Action of benzoyl chloride on ethyl β-diethylaminocrotonate. W. M. Lauer and N. H. Cromwell. Am Chem Soc J 64:612-14 Mr '42

AMINOHYDROXYANTHRAQUINONE

Fluorescent tests for beryllium and thorium. C. E. White and C. S. Lowe. Ind & Eng Chem Anal ed 13:809-10 N 15 '41

AMINOHYDROXYNAPHTHOIC acid

Aminohydroxynaphthoic acids. I. V. Hopper, A. C. Syme and F. J. Wilson. bibliog(71 references) Soc Dyers & Col J 58:93-7 My '42

AMINOISOQUINOLINE

Derivatives of aminoisoquinolines. J. J. Craig and W. E. Cass. bibliog Am Chem Soc J 64:783-4 Ap '42

AMINOLEPIDINE

Reaction of 4-chloroquinaldines and of 2-chlorolepidines with ammonia, and the preparation of the corresponding phenyl ethers. O. G. Backeberg and J. L. C. Marais. Chem Soc J p381-3 Je '42

AMINOMETHOXYQUINALDINE

Derivatives of 4-amino-6-methoxyquinaldine. W. F. Holcomb and C. S. Hamilton. bibliog Am Chem Soc J 64:1309-11 Je '42

AMINOMETHYLNAPHTHOL

Analysis

Detection and quantitative determination of 4-amino-2-methyl-1-naphthol; a synthetic vitamin K. A. R. Menotti. Ind & Eng Chem Anal ed 14:601-2 Jl 15 '42

AMINONITROISOQUINOLINE

Deamination of 5-amino-8-nitroisoquinoline. B. Keilin and W. E. Cass. bibliog Am Chem Soc J 64:2442-4 O '42

AMINOPHENYLARSENIC acid

Sulfanilamide effect of substances devoid of sulfo groups. J. Hirsch. bibliog Science 96:139-40 Ag 7 '42

AMINOPHTHALHYDRAZIDE

Synthesis of 5-aminocoumarone-2,3-dicarboxylic acid cyclohydrazide; a heterocyclic analog of 4-aminophthalhydrazide. E. H. Huntress and M. W. Hearon. bibliog Am Chem Soc J 64:86-90 Ja '42

AMINOPROPANEDIOL

l-Glycidol. J. C. Sowden and H. O. L. Fischer. bibliog Am Chem Soc J 64:1291-3 Je '42

AMINOPYRIDINE

Substituted 2-sulfonamido-5-aminopyridines. W. T. Caldwell and E. C. Kornfeld. bibliog Am Chem Soc J 64:1695-8 Jl '42

AMINOQUINALDINE

Reaction of 4-chloroquinaldines and of 2-chlorolepidines with ammonia, and the preparation of the corresponding phenyl ethers. O. G. Backeberg and J. L. C. Marais. Chem Soc J p381-3 Je '42

AMINOQUINOLINE

5-Amino- and 1-aminobenzo(f)quinolines and derivatives. E. R. Barnum and C. S. Hamilton. bibliog Am Chem Soc J 64:540-2 Mr '42

Syntheses in the quinoline series; the nitration of 2-chloro-4-methylquinoline and the preparation of some 2-hydroxy-4-methyl-8-(dialkylaminoalkyl)-aminoquinolines. O. H. Johnson and C. S. Hamilton. Am Chem Soc J 63:2867-9 N '41

Syntheses in the quinoline series; 2,4-disubstituted quinoline derivatives. F. J. Buchmann and C. S. Hamilton. bibliog Am Chem Soc J 64:1357-60 Je '42

AMINOQUINOLINE sulfonamide

Heterocyclic derivatives related to sulfanilamide; the quinoline analog of sulfanilamide and derivatives. H. Urist and G. L. Jenkins. bibliog Am Chem Soc J 63:2943-4 N '41

AMINOSULFONIC acid. See Sulfamic acid

AMINOTHIAZINE

Extension of the acidity scale. L. Michaelis and S. Granick. Am Chem Soc J 64:1861-5 Ag '42

AMINOTHIAZOLE

Preparation of 2-amino-4-alkylthiazoles from esters of substituted 2-aminothiazyl-4-acetic acids. W. M. Ziegler. Am Chem Soc J 63:2946-8 N '41

AMMETERS

Inkless recording. P. E. Twiss. il diag Gen Elec R 45:511-14 S '42

Low-burden ammeter for relay testing. H. L. Goodridge. Elec W 18:318 Jl 25 '42

Use of recording ammeters and voltmeters in welding. H. Lawrence. il Steel 109:54, 56+ D 15 '41

Testing

Salford test panel for voltmeters and ammeters. il diag Engineering 152:327 O 24 '41

AMMINO compounds

Conductometric titrations in non-aqueous solutions; study of acid-base equilibria in monoethanolamine and formation of complex ammines in ethanol. J. T. Pinkston and H. T. Briscoe. J Phys Chem 46:469-73 Ap '42

AMMONIA

Adsorption of nitrogen and the mechanism of ammonia decomposition over iron catalysts. S. Brunauer, K. S. Love and R. G. Keenan. bibliog Am Chem Soc J 64:751-8 Ap '42

Ammonia. H. A. Curtis. J Chem Educ 19:188-9 Ap '42

Ammonia brine-cooler tubes of charcoal iron. Power 86:828-9+ N '42

Ammonia producers battle for the refrigeration industry. R. J. Quinn. Refrig Eng 44:82 Ag '42

By-product ammonia and sulphate of ammonia; general preference order M-163. Am Gas J 157:33 Jl '42

Catalytic decomposition of ammonia over iron synthetic ammonia catalysts. K. S. Love and P. H. Emmett. bibliog Am Chem Soc J 63:3297-308 D '41

Catalytic effect of electrolytes on solvolytic reactions; reactions between *n*-butylamine and ethyl phenylacetate and between liquid ammonia and ethyl benzoate. L. F. Audrieth, L. D. Scott and O. F. Hill. Am Chem Soc J 64:2498-9 O '42

Colorimetric determination of nickel with ammonia; a spectrophotometric study. J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:289-92 Ap 15 '42

Compressed air for ammonia oxidation. D. G. Morrow. il Am Inst Chem Eng Trans 38:377-86 Ap '42

Control of ammonia in the electrodeposition of brass. J. H. Monaweck. Electrochem Soc Trans 82 (preprint 28):331-8 O '42

Correlating vapor pressure and latent heat data; use of critical constants. D. F. Othmer. Ind & Eng Chem 34:1072-8 S '42

Doubles refrigerating capacity by draining ammonia lines. E. G. Applegate. diags Food Ind 14:64-5+ Ja '42

Effect of alkali promoter concentration on the decomposition of ammonia over doubly promoted iron catalysts. K. S. Love and S. Brunauer. bibliog Am Chem Soc J 64:745-51 Ap '42

Effect of formaldehyde on the volatilizations of ammonia, mono-, di-, and trimethylamines. G. J. Benoit, jr. and E. R. Norris. bibliog diag Ind & Eng Chem Anal ed 14:823-5 O 15 '42

AMMONIA—*Continued*

Effect of strong electric fields on the radiochemical decomposition of gaseous ammonia. M. J. McGuinness, jr. and H. Essex. diag Am Chem Soc J 64:1908-11 Ag '42

Further resolution of two parallel bands of ammonia and the interaction between vibration and rotation. H. Sheng, E. F. Barker and D. M. Dennison. Phys R 60: 786-94 D 1 '41

Handling ammonia for metal treatment. L. H. Brandt. diags Metals & Alloys 16:60-6 Jl '42

Influence of electrolytes upon ammonolysis by liquid ammonia. J. F. Lemons and others. bibliog Am Chem Soc J 64:467-8 F '42

Instructions for pumping out ammonia systems in case of air raids. Refrig Eng 43: 165 Mr '42

Lecture experiment on the synthesis and combustion of ammonia. F. Fromm. J Chem Educ 19:230 My '42

Microanalysis of gases; nitric oxide-hydrogen, nitric oxide-nitrogen, and nitrous oxide-ammonia mixtures. R. N. Smith and P. A. Leighton. diags Ind & Eng Chem Anal ed 14:758-9 S 15 '42

Oxidation of ammonia; air-oxygen mixtures used. Chem Age (Lond) 47:318 O 10 '42

Practical application of ammonia-induced break-point chlorination. C. R. Harvill, J. H. Morgan and H. L. Mauzy. flow sheet Am Water Works Assn J 34:275-84; Discussion. C. K. Calvert. 285-7 F '42

Preparation of plastics and elastomers in liquid ammonia. R. G. Roberts. Chem & Eng N 20:316 Mr 10 '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Production of hydrogen cyanide and ammonia from coal gas in a high frequency arc; abstract. E. Briner and H. Hoefer. Chem & Met Eng 49:154 Mr '42

Reaction of 4-chloroquinaldines and of 2-chlorolepidines with ammonia, and the preparation of the corresponding phenyl ethers. O. G. Backeberg and J. L. C. Marais. Chem Soc J p381-3 Je '42

Recent developments in large ammonia absorption systems. R. L. Jones and J. R. Chamberlain. flow diag il Refrig Eng 43: 25-31 Ja '42

Second virial coefficients of polar gas mixtures. W. H. Stockmayer. bibliog J Chem Phys 9:863-70 D '41

Speedy removal of liquid ammonia in case of accident to refrigerating equipment. diags Power 86:431-3+ Je '42

Study of the products obtained by the reducing action of metals upon salts in liquid ammonia solutions; the reduction of complex nickel cyanides: mono-valent nickel. J. W. Eastes and W. M. Burgess. diag Am Chem Soc J 64:1187-9 My '42

Urea process for nitriding steels. R. P. Dunn, W. B. F. Mackay and R. L. Dowell. il diags Am Soc for Metals Trans 30:776-91; Discussion. 791-2 S '42

Use of mercury in contact with ammonia; explosive hazard. R. G. Roberts. Science 94: 591-2 D 19 '41

See also
Ammonium sulfate

Analysis

Calculation of corrections to conductivity measurements for dissolved gases. D. S. McKinney. Am Soc T M Proc 41:1285-95; Discussion. 1296-1301 '41

Conductometric determination of ammonia; application to nitrogen distribution studies. R. H. Hendricks and others. bibliog diag Ind & Eng Chem Anal ed 14:23-6 Ja 15 '42

Determination of ammonia by a diffusion method. A. N. Prater, E. J. Cowles and R. P. Straka. bibliog il Ind & Eng Chem Anal ed 14:703-5 S 15 '42

Experimental methods of determining conductivity corrections for dissolved gases in steam condensate. S. F. Whirl and W. A. Lower. diags Am Soc T M Proc 41:1277-84; Discussion. 1296-1301 '41

Manufacture

Ammonia synthesis; efficiency of iron catalysts. S. Lachinov. Chem Age (Lond) 46: 304 Je 20 '42

Iron catalysts for ammonia synthesis; secondary importance of physical properties; abstract. N. I. Kobosev. Chem Age (Lond) 45:233 N 1 '41

Rating

Household ammonia. il Consumers' Research Bul 9:11-12 N '41

Storage

Collapse and repair of a storage tank. il diags Engineer 174:192-3 S 4 '42

AMMONIA compressors

How to prevent annoying freezebacks. M. A. Radamaker. diag Power Pl Eng 46:92-3 Ja '42

Theoretical gas discharge temperatures for ammonia compressors; chart. F. B. Gilbert Power Pl Eng 46:108 Mr '42

Failure

Ammonia compressor accident. Locomotive 44:58 Ap '42

AMMONIA handling

Handling ammonia for metal treatment. L. H. Brandt. diags Metals & Alloys 16:60-6 Jl '42

AMMONITES. See Ammonoidea

AMMONIUM acetate

Proposed method of test for calcium sulfate in gypsum and gypsum products by the ammonium acetate method. Am Soc T M Proc 41:293-4 '41

AMMONIUM alginate

Properties of alginic acid; ammonium alginate as a protective colloid; abstract. Y. K. Novodranov and E. K. Smirnova. Chem & Met Eng 49:204 My '42

AMMONIUM benzoate

Gravimetric determination of aluminum in magnesium alloys; benzoate-oxine method. V. A. Stenger, W. R. Kramer and A. W. Beshgetoor. Ind & Eng Chem Anal ed 14: 797-8 O 15 '42

AMMONIUM carbonates

Recovery of gilding metal from clad steel; cupric ammonium carbonate leaching. A. J. Thompson. il Iron Age 150:51-3 N 12 '42

AMMONIUM chloride

Apparent volumes of individual ions in aqueous solution. K. Fajans and O. Johnson. bibliog Am Chem Soc J 64:668-78 Mr '42

Dissociation of ammonium salts in contact with wool; a contribution to knowledge of neutral dyeing. F. L. Goodall and C. Hobday. Soc Dyers & Col J 58:36-40 F '42

Electrolytic decomposition of aqueous ammonium chloride solutions. C. B. F. Young and E. G. Lundstrom. il diag Electrochem Soc Trans 81 (preprint 33):469-77 Ap '42

Manufacture of ammonium chloride from gas liquor. R. Walker and H. C. Applebee. Gas J (Lond) 236:98, 103; Discussion. 103, 105 O 15 '41

Salammoniac in India; revival of native method of production. J. L. Sarin. Chem Age (Lond) 45:300 D 13 '41

AMMONIUM compounds

Ammonium salts of aliphatic carboxylic acids. S. Zuffanti. bibliog Am Chem Soc J 63: 3123-4 N '41

Dissociation of ammonium salts in contact with wool; a contribution to knowledge of neutral dyeing. F. L. Goodall and C. Hobday. Soc Dyers & Col J 58:36-40 F '42

Electrochemical properties of mineral membranes; the estimation of ammonium-ion activities; the measurement of ammonium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. J Phys Chem 46:325-34 F '42

AMMONIUM compounds—*Continued*

Mechanism of elimination reactions; the decomposition of quaternary ammonium bases and of xanthate esters. P. G. Stevens and J. H. Richmond. bibliog Am Chem Soc J 63:3132-6 N '41

Some quaternary ammonium salts and their decomposition products. A. Zaki and H. Fahim. Chem Soc J p270-2 Ap '42

AMMONIUM dichromate

Chemical poisoning from ammonium bichromate. Inland Ptr 108:69 Mr '42

AMMONIUM fluoride

Structures of complex fluorides; ammonium hexafluosilicate-ammonium fluoride, $(NH_4)_2SiF_6 \cdot NH_4F$. J. L. Hoard and M. B. Williams. bibliog Am Chem Soc J 64:633-7 Mr '42

AMMONIUM fluosilicate

Structures of complex fluorides; ammonium hexafluosilicate-ammonium fluoride, $(NH_4)_2SiF_6 \cdot NH_4F$. J. L. Hoard and M. B. Williams. bibliog Am Chem Soc J 64:633-7 Mr '42

AMMONIUM formate

Separation of bismuth from lead with ammonium formate. S. Kallmann. bibliog Ind & Eng Chem Anal ed 13:897-900 D 15 '41

AMMONIUM halides

Infra-red spectra of ammonium halides. D. Williams. bibliog Am Chem Soc J 64:857-60 Ap '42

AMMONIUM hydroxide

Colorimetric determination of nickel with ammonia; a spectrophotometric study. J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:289-92 Ap 15 '42

Electrochemical properties of mineral membranes; the estimation of ammonium-ion activities; the measurement of ammonium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. J Phys Chem 46:325-34 F '42

Preparation of ammonium hydroxide for laboratory use. L. E. West and A. Wilson. diag J Chem Educ 19:418-19 S '42

Viscosity determination of cotton in dimethyl dibenzyl ammonium hydroxide. W. W. Russell and L. N. Hood, jr. bibliog diag Ind & Eng Chem Anal ed 14:202-5 Mr 15 '42

AMMONIUM molybdate

Detection of orthophosphates by means of drop reactions. P. W. West and T. Houtman. bibliog Ind & Eng Chem Anal ed 14:597-9 Jl 15 '42

AMMONIUM nitrate

Manufacture

Acid treatment quadruples flow in a war plant water well. il diags Eng N 129:232-4 Ag 13 '42

AMMONIUM persulfate

Photolysis of persulfate. L. J. Heidt. bibliog J Chem Phys 10:297-302 My '42

AMMONIUM sulfamate

Flameproofing made possible by laboratory curiosity. Sci Am 166:200-2 Ap '42; Abstract. Nat Safety N 45:73 Ap '42

New chemical, ammonium sulfamate, for killing poison ivy. Science 95:sup12 My 1 '42

AMMONIUM sulfate

By-product ammonia and sulphate of ammonia; general preference order M-163. Am Gas J 157:33 Jl '42

Ferrocyanide method for separation of hafnium from zirconium. W. C. Schumb and F. K. Pittman. Ind & Eng Chem Anal ed 14:512-15 Je 15 '42

Manufacture

Ammonium sulphate production. R. H. Nugent. Blast F & Steel Pl 30:643-5 Je '42

Ammonium sulphate production in coke works; saturator designs; abstract. A. Thau. Chem & Met Eng 49:160 Je '42

Ammonium sulphate production; low-differential, large-crystal ammonium sulphate process. W. Tiddy. flow sheets il Blast F & Steel Pl 29:1213-17, 1243 D '41; Same cond. Gas Age 89:16-17 Je 18 '42

AMMONIUM thiocyanate

Colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in the presence of metaphosphate and pyrophosphate. H. E. Wirth. Ind & Eng Chem Anal ed 14:722-5 S 15 '42

AMMONIUM tin oxalate

New work on tin plating from ammonium stannous oxalate. F. C. Mathers and P. H. Johnson. Electrochem Soc Trans 81 (preprint 7):69-73 Ap '42

AMMONOAQUOPHOSPHORIC acids

Aquo ammono phosphoric acids. L. F. Audrieth and A. D. F. Toy. Am Chem Soc J 63:2117-19; 64:1337-9 Ag '41, Je '42

Aquo ammono phosphoric acids; the N-substituted derivatives of phosphoryl and thiophosphoryl triamide as hydrogen bonding agents. L. F. Audrieth and A. D. F. Toy. bibliog Am Chem Soc J 64:1553-5 Jl '42

AMMONOIDEA

Late Jurassic fossils from Cuba and their economic significance. R. W. Imlay. maps Geol Soc Bul 53:1417-77, pl 1-12 bibliog (p 1461-4) O '42

AMMONOLYSIS

Influence of electrolytes upon ammonolysis by liquid ammonia. J. F. Lemons and others. bibliog Am Chem Soc J 64:467-8 F '42

Laboratory experiments involving ammonolysis of esters. W. V. Sessions. J Chem Educ 19:130 Mr '42

Salicylamide; the ammonolysis of methyl salicylate. E. R. Kline. J Chem Educ 19:332 Jl '42

AMMUNITION

Artillery ammunition—a challenge! F. A. Marshall. il Mod Plastics 19:46-7+ Je '42

Artillery and small-arms ammunition! 244p $1 McGraw-Hill '42

Complete guide to handloading. P. B. Sharpe. 2d ed rev & enl 465p, 72p $7.50 Funk & Wagnalls co., New York '42

Molded ammunition rollers; Curtiss P-40, carrying .50 calibre machine guns. C. Marquardt. il Mod Plastics 19:40-1, 124+ Ag '42

Shelters for ammunition-proving ground. il Engineering 152:336 O 24 '41

See also

Cartridge cases
Cordite
Projectiles
Smokeless powder

AMMUNITION cases

Ammunition cases for fighter aircraft, as made by Curtiss-Wright. G. Smith. il Steel 110:60, 62+ F 2 '42

AMOLA steels. See Molybdenum steel

AMONTONS law

Amontons' law, traces of frictional contact, and experiments on adhesion. R. Schnurmann. bibliog il J Ap Phys 13:235-45 Ap '42

AMORTIZATION

Amortization jam. Business Week p18 D 27 '41

AMPELOCRINUS

Ampelocrinus, a new crinoid genus from the upper Mississippian. E. Kirk. Am J Sci 240:22-8, pl 1-2 Ja '42

AMPERE

Absolute determination of the ampere, using helical and spiral coils. R. W. Curtis, R. L. Driscoll and C. L. Critchfield. bibliog diag J Research Nat Bur Stand 28:133-57 F '42

AMPERE meters. See Ammeters

AMPHIBIAN tanks. See Tanks, Military—Amphibian tanks

AMPHIBOLES

See also

Hornblende

AMPHIBOLITES

Amphibolites of the lead area, northern Black Hills, South Dakota. T. A. Dodge. bibliog maps Geol Soc Bul 53:561-83, pl 1-5 Ap '42

AMPHOLYTES. See Amphoteric substances

AMPHOTERIC substances

Adsorption of organic compounds; adsorption of ampholytes on an activated charcoal. V. H. Cheldelin and R. J. Williams. bibliog Am Chem Soc J 64:1513-16 Jl '42

General theory of the isoelectric point. T. L. Hill. bibliog J Phys Chem 46:417-28, 597-605, 621-4 Mr, My-Je '42

AMPLIDYNE generator

Automatic control of boring mills obtained by accurately cut screws; Selsyn thyratron and amplidyne apparatus. R. Hillner and K. K. Bowman. il diags Mach 48:138-42 D '41

Blast furnace skip hoist operation with amplidyne exciter control. C. P. Hamilton. il diags Blast F & Steel Pl 30:1023-5 S '42

Cold rolling strip steel at 3900 feet per minute. J. D. Campbell and J. R. Taylor. il diag Steel 110:78, 80, 82 F 23 '42

Electrical developments of 1941; paper mills. G. Bartlett. il Gen Elec R 45:29-30 Ja '42; Same. Paper Tr J 114:15-16 Ja 8 '42

How to maintain constant linear speed and tension in material being unwound from one reel onto another. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110:78, 80 Mr 30 '42

How to provide a drive having a rapid acceleration and retardation and quick return motion; amplidyne controlled motor; saw-mill log carriage. H. B. LaRoque. il diags Gen Elec R 44:619-20 N '41

Speed regulating device outstanding on new paper-making machine; electronic amplifier in combination with an amplidyne control. il Paper Tr J 113:114+ N 27 '41

Steady-state theory of the amplidyne generator. T. D. Graybeal. bibliog diag Elec Eng 61:Trans 750-6 O '42

AMPLIFIERS

See also

Electron multipliers

AMPLIFIERS, Vacuum tube

All-purpose public address amplifier. A. Besse. il diag Radio N 27:10-11+ Ap '42

Analysis of feedback and prevention of oscillation in hf amplifiers. T. Chew. diags Radio N 27:14-15+ Je '42

Anode dissipation in anode-modulated class C amplifiers. R. G. Mitchell. Wireless Eng 18:443-9 N '41

Behavior of electrostatic electron multipliers as a function of frequency. L. Malter. diags Inst Radio Eng Proc 29:587-98 N '41

Cathode phase inversion. O. H. Schmitt. diags R Sci Instr 12:548-51 N '41

Circuit for neutralizing low-frequency regeneration and power-supply hum. W. Pan. diags Inst Radio Eng Proc 30:411-12 S '42

Controlled transitron oscillator. S. R. Jordan. diags Electronics 15:42-3 Jl '42

Designing a public address amplifier. L. M. Dezettel. il diags Radio N 27:26-7+ Ap '42

Diminution of variations of amplification by negative feedback, referred to the same amplification factor; abstract. J. Peters. Wireless Eng 19:473-4 O '42

Electronic relays. S. Redfern. bibliog diags Ind & Eng Chem Anal ed 14:64-5 Ja 15 '42

Flexible amplifier. L. Moore. il diags Radio N 27:12-14+ F '42

Flexible equalizing amplifier; used for equalizing loudspeakers, recording heads, playback equipment, or telephone lines. E. G. Cook. il diags Electronics 15:36-41+ Jl '42

Flexible sweep circuit and deflection amplifier for cathode ray oscillographs. W. A. Geohegan. diags Electronics 14:38-9 D '41

Formulas for the amplification factor for triodes. B. Salzberg. diags Inst Radio Eng Proc 30:134-8 Mr '42

Grounded plate amplifier for the F-M transmitter. A. A. Skene. diags Electronics 15:106+ N '42

Hearing aid design. I. Kamen. il diag Electronics 15:32-5 Jl '42

Judging an amplifier by means of the transient characteristic. J. Haantjes. diags Electronics 15:80+ Mr '42

Low-frequency characteristics of the coupling circuits of single and multistage video amplifiers. H. L. Donley and D. W. Epstein. diag RCA R 6:416-33 Ap '42

New amplifier features r.c. equalizing. M. T. Putnam. il diags Radio N 28:16-18+ Jl '42

New industrial amplifier; abstracts. D. C. Gall. Elec R (Lond) 130:338 Mr 13 '42; Electrician 128:249-51 Mr 20 '42; Elec W 118:487-8 Ag 8 '42; Discussion. Electrician 128:249-51 Mr 20 '42

Optimum conditions for maximum power in class A amplifiers. W. B. Nottingham. Inst Radio Eng Proc 29:620-3 D '41

Orbital-beam secondary-electron multiplier for ultra-high-frequency amplification. H. M. Wagner and W. R. Ferris. il diags Inst Radio Eng Proc 29:598-602 N '41

Power amplifier plate tank circuits. A. B. Newhouse. diags Electronics 14:32-5 N '41

Program-operated level-governing amplifier. W. L. Black and N. C. Norman. il Inst Radio Eng Proc 29:573-8 N '41

Relaxation amplifier. M. Wald. diags Wireless Eng 18:483-91 D '41; Abstract. Electronics 15:145-6 Je '42

Sensitive d-c amplifier with a-c operation. S. E. Miller. diags Electronics 14:27-31+ N '41

T to pi transformations simplified. H. Stockman. diags Electronics 15:72-3+ O '42

Telephone amplifier for power company circuits. W. H. Blankmeyer. il diag Electronics 15:78+ Ap '42

Triodes with square mesh grids; calculating the amplification factor. C. C. Eaglesfield. diags Wireless Eng 19:447-50; Discussion (Equivalence of parallel wire and square mesh grids). G. W. O. Howe. 443-6 O '42

Ultra high frequency technique; wide band amplifiers. D. L. Jaffe. bibliog(p62) diags Electronics 15:56-60 Ap '42

Voltage-controlled electron multipliers. B. J. Thompson. bibliog diags Inst Radio Eng Proc 29:583-7 N '41

AMPUTATION

Inter-innomino-abdominal amputation. A. H. Whittaker. il Ind Med 11:1-3 Ja '42

AMUSEMENT industries

Amusement industry in wartime. Index 22 no 1:18-24 [Mr] '42; Excerpts. Bankers M 144:545-6 Je '42

See also

Moving picture industry

Advertising

See also

Games—Advertising

Statistics

Places of amusement; sixteenth census of the United States: 1940; census of business: 1939. 67p U.S. Bur. of census, Washington; pa 15c Supt. of doc. '41

AMYL alcohol

Orientation effects in the alkylation of *m*-xylene by various procedures and reagents. D. Nightingale, H. D. Radford and O. G. Shanholtzer. bibliog Am Chem Soc J 64:1662-5 Jl '42

Solvents in industry. Metal Finishing 40:63-4 Ja '42

AMYL chloride

Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. A. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

AMYLASES

Polysaccharide associated with β-amylase. L. H. Ford and S. Peat. Chem Soc J p856-64 D '41

AMYLASES—*Continued*

Purification of the amylase of bacillus macerans. E. B. Tilden, M. Adams and C. S. Hudson. bibliog Am Chem Soc J 64:1432-3 Je '42

Quantitative strength determination of amylase (diastase) preparations. E. Lenk. Soc Dyers & Col J 58:138-41 Jl '42

Study of the products obtained from starch by the action of the amylase of bacillus macerans. W. S. McClenahan, E. B. Tilden and C. S. Hudson. bibliog Am Chem Soc J 64:2139-44 S '42

AMYLCAINE

Dimorphism of amylcaine hydrochloride. H. R. Kreider and A. R. Menotti. il Am Chem Soc J 64:1227-8 My '42

AMYLENE

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33:1540-4 D '41

AMYLOPECTINS

Fractionation of waxy and ordinary cornstarch. C. G. Caldwell and R. M. Hixon. bibliog Am Chem Soc J 63:2876-80 N '41

AMYLOSES

Fractionation of waxy and ordinary cornstarch. C. G. Caldwell and R. M. Hixon. bibliog Am Chem Soc J 63:2876-80 N '41

AMYLSODIUM. See Sodium compounds

AMYRIN

Sapogenins; the position of the double bond in acids of the β-amyrin group. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p532-4 S '42

AMYTAL

Derivatives of amytal, pentobarbital, and dial; an optical crystallographic study. M. E. Hultquist, C. F. Poe and N. F. Witt. Ind & Eng Chem Anal ed 14:219 Mr 15 '42

ANACONDA copper mining company

Anaconda Copper; in 1942 it will produce over one-third of U.S. supply. il Fortune 25:52-5+ Ja '42

Annual report. Comm & Fin Chr 155:1594 Ap 20 '42

Basic Magnesium stock acquired by Anaconda. Oil Paint & Drug Rep 142:5+ N 2 '42

Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:65 [S] '42

High yield stocks with first call on earnings. G. Gordon. Mag of Wall St 70:351+ Jl 11 '42

ANACONDA wire and cable company

Firms charged with fraud in sale of cable to navy; denials issued. Comm & Fin Chr 156:747-8 Ag 31 '42

ANAESTHETICS. See Anesthetics

ANALYSIS, Chromatographic. See Chromatographic analysis

ANALYSIS, Colorimetric. See Colorimetric analysis

ANALYSIS, Metallurgical. See Metallurgical analysis

ANALYSIS, Volumetric. See Volumetric analysis

ANALYTIC chemistry. See Chemistry, Analytic; Microanalysis

ANAPHYLAXIS

Anaphylaxis in guinea pigs following sensitization with chick-embryo yellow fever vaccine and normal chick embryos. T. O. Berge and M. V. Hargett. bibliog Pub Health Rep 57:652-67 My 1 '42

See also

Allergens

ANATASE. See Octahedrite

ANATOMY

Terminology

Committee on anatomical nomenclature. E. A. Boyden and others. Science 96:116 Jl 31 '42

ANCHORS

Casts steel anchors vertically. W. Bell, jr. il Foundry 70:68+ Jl '42

Danforth non-fouling anchor. il Marine Eng 47:120 F '42

Manufacture

Baldt anchors and chain for ships to sail the seven seas. E. J. McGuiness. il Mach 49:180-7 N '42

ANDERSON, Clinton P. 1895-

Agent is New Mexico's only representative in Congress. J. S. Daniel. por East Underw 42:63 D 12 '41

ANDERSON, Sir John, 1882-

Portrait. Fortune 25:103 Ap '42

ANDES copper mining company

Favored stocks priced from $1 to $10. Mag of Wall St Manual p6 Ap '42

ANDES mountains

Automobiles and trains use trans-Andean railroad tunnel as highway link between Chile and Argentina. For Comm W 6:28 Ap 4 '42

Life in the Andes and chronic mountain sickness. C. Monge. Science 95:79-84 Ja 23 '42

ANDESITE

Structural features of the Keewatin volcanic rocks of western Quebec. M. C. Wilson. bibliog diags map Geol Soc Bul 53:53-69, pl 1-5 Ja '42

ANDREWS, Roy Chapman

Resignation as director of the American museum of natural history. Science 94:482 N 21 '41

ANEMIA

Aplastic anemia. L. M. Meyer and V. Ginsberg. bibliog il J Ind Hygiene 24:37-8 F '42

ANEMOMETERS

Guide vanes for the cup anemometer. A. Klemin and W. C. Walling. diags Instruments 15:108-10 Ap '42

ANESTHETICS

Analysis of divinyl ether in blood. W. L. Ruigh. bibliog il Ind & Eng Chem Anal ed 14:32-4 Ja 15 '42

Clinical anesthesia. J. S. Lundy. 771p bibliog(p726-8) $9 Saunders '42

Endotracheal anaesthesia. N. A. Gillespie. 187p bibliog(p177-80) $4 Univ. of Wisconsin press, Madison '41

Handbook of anæsthetics. J. S. Ross. 5th ed 364p $4 Williams & Wilkins '41

Health as a national asset. T. Koppanyi. Science 96:61-2 Jl 17 '42

Inflammability of ether-oxygen-helium mixtures; their application in anesthesia. G. W. Jones, R. E. Kennedy and G. J. Thomas. U S Bur Mines Rep of Invest 3589:1-15, pl 1 '41

Nerve-modulus for anesthetics. A. R. McIntyre, A. L. Bennett and J. C. Wagner. Science 95:24 Ja 2 '42

Practical anesthesia for dental and oral surgery, local and general. H. M. Seldin. 2d ed rev 560p bibliog(p86, p522) $7 Lea & Febiger, Philadelphia '42

See also

Hypnotics

Narcotics

also names of anesthetics, e.g. Demerol, Ethyl ether

ANESTHETICS, Local

Dimorphism of amylcaine hydrochloride. H. R. Kreider and A. R. Menotti. il Am Chem Soc J 64:1227-8 My '42

Esters of pyridinecarboxylic acids as local anesthetics. F. F. Blicke and E. L. Jenner. bibliog Am Chem Soc J 64:1721-4 Jl '42

Local anesthetics; β-monoalkylaminoethyl esters of alkoxybenzoic acids. J. S. Pierce, J. M. Salsbury and J. M. Fredericksen. Am Chem Soc J 64:1691-4 Jl '42

Optically active phenylurethan anesthetics. M. S. Raasch and W. R. Brode. bibliog Am Chem Soc J 64:1112-14 My '42

Shockless surgery; ice anesthesia, boon to aged in limb operations and a promise for war wounded in the field. B. M. Newman. il Sci Am 166:182-4 Ap '42

ANETHOLE
Bimolecular condensation of *p*-propenylanisole (anethole) under the influence of heat. N. R. Campbell. Chem Soc J p672-4 O '41

ANEURIN. See Vitamins—Vitamin B_1

ANGINA pectoris
Angina pectoris; nerve pathways, physiology, symptomatology, and treatment. H. R. Miller. 289p $3 Grune, Stratton, New York '42

ANGLES
Angles in space; their measurement on a direction diagram. H. H. Stevens, jr. diags Product Eng 13:392-4, 443-5 Jl-Ag '42

ANGLO AMERICAN corporation
Anglo American group figures for 1940 and 1941. Economist 142:694 My 16 '42

ANGLO-CHILEAN nitrate corporation
Annual report. Comm & Fin Chr 154:1589 D 20 '41

ANGLO-DUTCH plantations of Java, limited
Ordinary general meeting, 31st, London. Economist 141:667 N 29 '41

ANGLO-SOVIET medical committee
Russian interchange. Science 95:456-7 My 1 '42

ANHYDRIDES
Experiments on the formation of mixed osazones and their anhydrides. E. E. Percival and E. G. V. Percival. Chem Soc J p750-5 N '41

Heats of organic reactions; heats of hydrolysis of some acid anhydrides. J. B. Conn and others. bibliog Am Chem Soc J 64:1747-52 Ag '42

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42

Reactions of anils; the reversibility of the reaction with acid anhydrides. H. R. Snyder and J. C. Robinson, jr. Am Chem Soc J 63:3279-80 D '41

Thermal decomposition of five-membered rings. F. O. Rice and M. T. Murphy. bibliog Am Chem Soc J 64:896-9 Ap '42

ANHYDRITE
Basal beds of Salado formation in Fletcher potash core test, near Carlsbad, New Mexico. W. B. Lang. Am Assn Pet Geologists Bul 26:63-79, pl 1-11 Ja '42

Upper Pennsylvanian anhydrite, west Texas. R. Roth. Am Assn Pet Geologists Bul 26:1412-13 Ag '42

ANHYDROACETONEBENZIL
Action of alkaline reagents on the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2120-3 S '42

Structure of the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2123-7 S '42

ANHYDROMETHYLHEXOSIDES
Carbohydrate sulphuric esters; the isolation of 3 : 6-anhydromethylhexosides from methylhexopyranoside sulphates. R. B. Duff and E. G. V. Percival. Chem Soc J p830-3 D '41

ANHYDROSARSASAPOGENOIC acid
Sterols; sapogenins; the structure of the dibasic acid obtained by the permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:147-9 Ja '42

Sterols; sapogenins; the structure of the side chain of sarsasapogenin; the identification of the acid obtained by the haloform reaction on the dibasic acid from the potassium permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:180-1 Ja '42

ANILIDES
Halogenation of phenolic ethers and anilides; some Arrhenius activation energies. B. Jones. Chem Soc J p418-20 Jl '42

ANILINE
Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

Control of sulphite cooking process; application of the reaction between aniline and lignin sulphonic acid. J. Seiberlich. Pulp & Pa of Can 43:260 F '42

Coupling of *m*-halogenophenols with diazotised aniline, and the existence of chromoisomerism among the 3-halogeno-4-benzeneazophenols. H. H. Hodgson and G. Turner. Chem Soc J p433-5 Jl '42

Liquid-liquid extraction in wetted-wall and packed columns. E. W. Comings and S. W. Briggs. bibliog diags Am Inst Chem Eng Trans 38:143-77 F '42

Reactions of furan compounds; constitution of the coloured condensation product from furfural, aniline, and aniline hydrochloride. G. Williams and C. L. Wilson. Chem Soc J p506-7 Ag '42

Manufacture

American institute of chemical engineers; student contest problem for 1942; plant for manufacture of aniline oil by the iron-hydrochloric acid reduction process; with prize winning paper by C. C. Neas. flow sheet bibliog Am Inst Chem Eng Trans 38:653-718 Ag '42

ANILINE black
Practical considerations in dyeing prussiate aniline black. Textile Col 63:669-70 D '41

Rubbing and bleeding of dyestuffs in printing and dyeing of textiles. Textile Col 64:375-6 Ag '42

ANILINE point
Aniline point determinations with dark-colored oils; a circulating test tube. A. A. Williams and E. W. Dean. diags Ind & Eng Chem Anal ed 14:63-4 Ja 15 '42

Determination of mixed aniline points of hydrocarbon solvents. B. H. Shoemaker and J. A. Bolt. Ind & Eng Chem Anal ed 14:200-1 Mr 15 '42

Determination of the aniline point of dark petroleum oils. B. B. Carr and M. S. Agruss. il Ind & Eng Chem Anal ed 14:105-6 F 15 '42; Excerpt. Nat Pet N 33:R301 S 17 '41

Effect of aniline point of oil on swelling of synthetic rubbers. A. C. Hanson. Ind & Eng Chem 34:1326-7 N '42

Effect of petroleum products on neoprene vulcanizates; effect of kerosenes. D. F. Fraser. bibliog Ind & Eng Chem 34:1298-1300 N '42

ANILINE poisoning
Acute poisoning from aniline oil. G. R. Benton, jr. and O. J. LaBarge. bibliog Ind Med 10:556-9 D '41

Aromatic amino and nitro compounds, their toxicity and potential dangers; a review of the literature. W. F. Von Oettingen. (Pub. health bul. 271) p 1-38 U.S. Public health service, Washington; pa 25c Supt. of doc. '41

ANILS
Reactions of anils; the reversibility of the reaction with acid anhydrides. H. R. Snyder and J. C. Robinson, jr. Am Chem Soc J 63:3279-80 D '41

ANIMAL experimentation
Controlled experiment and the four-fold table. E. B. Wilson. Science 93:557-60 Je 13 '41; Discussion. 94:210-11; 96:13-14 Ag 29 '41, Jl 3 '42

Effect of insulin shock on learning in the white rat. L. Berman and B. Riess. Science 95:511-12 My 15 '42

See also Yerkes laboratories of primate biology, Orange Park, Florida

ANIMALS

See also

Dogs
Domestication
Horses
Insects
Live stock
Rats
War and animals

ANIMALS, Extinct. See Paleontology

ANIMALS, Fossil. See Paleontology

ANIMALS, Habits and behavior of

Group organization among vertebrates. W. C. Allee. bibliog Science 95:289-93 Mr 20 '42

ANIMALS, Photography of. See Photography of animals

ANIMATED cartoons. See Moving pictures, Talking—Animated cartoons

ANISOIN

Chromatography of *cis* and *trans* benzoin and anisoin oximes with application of the brush method. L. Zechmeister, W. H. McNeely and G. Sólyom. bibliog Am Chem Soc J 64:1922-4 Ag '42

ANISOLE

Partial pressure of hydrogen chloride from its solutions in β,β'-dichloroethyl ether and in anisole and the calculation of the heat and entropy of solution. S. J. O'Brien. bibliog Am Chem Soc J 64:951-3 Ap '42

ANISOTROPY

Anisotropy of the electronic work function of metals. R. Smoluchowski. bibliog diags Phys R 60:661-74 N 1 '41

Electric resistance and anisotropy of artificial graphite between 290° K. and 12° K. A. Goetz and A. Holser. Electrochem Soc Trans 82 (preprint 7):89-94 O '42

Influence of an uneven anisotropy on the path of light rays. P. Frank. Phys R 62:241-3 S 1 '42

Validity of the Langevin theory of orientation and the possibility of distinguishing between inherent and photoelastic anisotropy. W. Heller and G. Quimfe. bibliog diag Phys R 61:382 Mr 1 '42

ANISOTROPY, Magnetic. See Magnetic properties

ANNEALING

Annealing cycles for machinability. Metal Prog 41:811-12 Je '42

Automatic spray pickling; combined annealing equipment heat treats, pickles, washes and dries in one continuous operation. il Steel 110:78+ My 25 '42

Cartridge brass; properties, effect of annealing and cold working. R. A. Wilkins and E. S. Bunn. charts Product Eng 13:42-6 Ja '42

Comparison of X-ray line breadth and internal friction for alpha-brass as affected by cold-working and annealing. F. Niemann and S. T. Stephenson. bibliog Phys R 62:330-3 O 1 '42

Effect of hydrogen on the ductility of steel. Engineer 172:sup[Metallurgist] 36-9 O 31 '41

Flake formation and embrittlement by hydrogen absorption of steel in annealing; abstract. E. Houdremont and H. Schrader. Metals & Alloys 14:914+ D '41

Flame hardening with city gas; full-automatic set-ups. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:1088-90 O 1 '42

Influence of crystal structure on the cold rolling and annealing of copper strip. M. Cook and T. L. Richards. Metal Prog 41:53+ Ja '42

Internal stresses in cast iron rolls in relation to service conditions. N. Krupnik. Blast F & Steel Pl 30:164-5+ Ja '42

New annealing technique in optical glass produces greatest homogenity. il Glass Ind 23:424-5 N '42

New annealing technique produces superior optical glass; American optical co. E. D. Tillyer. il Cer Ind 39:34+ N '42

Process anneals of alloy mold steels. E. K. Spring and J. K. Desmond. il Mod Plastics 19:61-3+ Mr '42

Raise shell output with inductive heat. il Elec W 118:824 S 5 '42

Silver plating steel over a phosphate coating. P. J. LoPresti. il Metal Finishing 40:533-6 O '42

Tensile properties of some copper alloys. C. S. Smith and R. W. Van Wagner. Am Soc T M Proc 41:825-45; Discussion. 846-8 '41

ANNEALING furnaces. See Furnaces, Annealing

ANNEALING of glass. See Glass manufacture

ANNIVERSARIES, Company

Advertising

Anniversary idea. J. B. Johans. il Ptr Ink 197:39+ D 26 '41

Customers help celebrate anniversary; Crown cork & seal co., Baltimore. il Ptr Ink 200:48 S 4 '42

Ryerson marks hundredth anniversary with wartime reserve. G. D. Crain, jr. il Ind Marketing 27:26-7+ N '42

ANNUAL reports. See Corporations—Reports and yearbooks

ANNUAL wage plans. See Wage payment plans—Guaranty of earnings

ANNUITIES

Annuity cash refund payments held in Louisiana to fall in annuitant's estate. Nat Underw (Life ed) 46:4 S 25 '42

Annuity contracts in force total 2,016,000. Weekly Underw 147:341 Ag 15 '42; Same. Nat Underw (Life ed) 46:3 Ag 21 '42

Annuity contracts; number, and amount of income, 1931 and 1941; tabulation. Weekly Underw 146:68-9 sec 2 My 9 '42

Annuity, disability, double indemnity results in 1941; annual statements filed with New York department. R. B. Mitchell. Nat Underw (Life ed) 46:4+ Mr 6 '42

Four nations interested in policy; Marshal Petain's annuity. East Underw 42:19+ D 12 '41

Hidden values in your life insurance; annuities solve the riddle of retirement by providing a guaranteed life income. B. W. Levmore. Barron's 22:8 My 11 '42

United Life & Accident has new policy; endowment annuity. East Underw 43:14 F 13 '42

See also

Insurance, Group
Old age pensions
Pensions, Industrial

Taxation

Federal taxation of life insurance and annuities. M. D. Bachrach. J Account 74:162-5 Ag '42

High court upholds annuity premium tax in California. Nat Underw (Life ed) 46:3 S 4 '42

U.S. Supreme court upholds annuity tax; income to divorced wife. East Underw 43:13 Mr 13 '42

ANODES. See Electrodes

ANODIC coating of aluminum. See Aluminum—Protection

ANODIC protection of metals. See Metal protection

ANORTHITE

System $CaO-FeO-Al_2O_3-SiO_2$; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

System $CaSiO_3$—diopside—anorthite. E. F. Osborn. bibliog diags Am J Sci 240:751-88 N '42

ANOXIA. See Oxygen deficiency

ANTARCTIC exploration

British Graham Land expedition, 1934-37. T. D. A. Cockerell. Science 95:123-4 Ja 30 '42

Explorers of the Antarctic. W. H. Hobbs. 334p $3 House of Field, New York '41

Byrd expedition, 1939-1941

Reports on scientific results of United States antarctic expedition of 1939-1941. Science 94:548-50 D 12 '41

United States antarctic expedition. F. Thone. Science 94:sup10 N 28 '41

ANTELOPES

Rounding up antelopes. Science 96:sup 11 O 23 '42

ANTENNAS, Radio. See Radio antennas

ANTENNAS, Television. See Television antennas

ANTHOCYANINS

Red and blue colouring matters of plants. R. Robinson. Soc Dyers & Col J 58:211-13 O '42

ANTHRACENE

Constitution of natural tannins; coloring matters derived from anthracene-9-aldehyde. A. Russell and W. B. Happoldt, jr. Am Chem Soc J 64:1101-3 My '42

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Investigations on the possible carcinogenic effect of anthracene and chrysene and some of their compounds; the effect of subcutaneous injection in rats. J. A. Pollia. J Ind Hygiene 23:449-51 N '41

Purification of anthracene. O. C. Dermer and J. King. Am Chem Soc J 63:3232 N '41

ANTHRACITE. See Coal

ANTHRACO-SILICOSIS. See Silicosis

ANTHRALDEHYDE

Constitution of natural tannins; coloring matters derived from anthracene-9-aldehyde. A. Russell and W. B. Happoldt, jr. Am Chem Soc J 64:1101-3 My '42

ANTHRAQUINONE

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

Fluorescent tests for beryllium and thorium. C. E. White and C. S. Lowe. Ind & Eng Chem Anal ed 13:809-10 N 15 '41

Mechanism for the formation of anthraquinone from *o*-benzoylbenzoic acid. M. S. Newman. bibliog Am Chem Soc J 64:2324-5 O '42

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

ANTHRAQUINONE blue

Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

ANTHRAQUINONE disulfonic acid

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

ANTHRAQUINONE sodium sulfonate

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

ANTHRONE

Reaction of Grignard reagents with acyloxyanthrones. L. F. Fieser and H. Heymann. bibliog Am Chem Soc J 64:376-82 F '42

ANTHROPOGEOGRAPHY

Geography in human destiny. R. Peattie. 323p bibliog(p302-10) $3 George W. Stewart, publisher, New York '40

ANTHROPOLOGY

Applied anthropology. Published quarterly by the Society for applied anthropology, Boston

Bones of men and apes; abstract. F. Weidenreich. Science 95:sup10 My 1 '42

Principles of anthropology. E. D. Chapple and C. S. Coon. 718p bibliog(p697-701) $3.75 Holt '42

See also

Archeology

Man, Prehistoric

ANTHROPOMETRY

Anthropological survey of the people of the United provinces of India. Science 95:570 Je 5 '42

Physical measurement of young children. V. B. Knott. 99p bibliog(p96-9) $1.35; pa $1 Univ. of Iowa press, Iowa City '41

ANTI-AIRCRAFT guns. See Guns, Anti-aircraft

ANTIBODIES. See Antigens and antibodies

ANTICONVULSANTS

Hydantoins containing a tetrahydropyranyl substituent. H. R. Henze and R. L. McKee. bibliog Am Chem Soc J 64:1672-4 Jl '42

ANTIDOTES. See Poisons

ANTI-fouling paint. See Paint, Anti-fouling

ANTI-FREEZE solutions

Adapting processes to defense needs. Chem & Met Eng 48:97 N '41

Antifreeze production to be on quota basis. Oil Paint & Drug Rep 141:5 My 18 '42

Nonalcoholic anti-freeze. Business Week p56 Ja 17 '42

Save your anti-freeze. Consumers' Research Bul 9:9 Mr '42

ANTIGENS and antibodies

Antibodies; just how do they perform their half-mysterious work? Sci Am 166:229 My '42

Antigenic properties of native and regenerated horse serum albumin. H. Neurath, J. O. Erickson and G. R. Cooper. bibliog Science 96:116-17 Jl 31 '42

Artificial antibodies. bibliog Science 96:181-3 Ag 21 '42

Disease-fighting blood substances have been formed artificially. Science 95:sup 12 Mr 20 '42

Equilibria in an antigen-antibody reaction. A. D. Hershey. bibliog Science 95:280-2 Mr 13 '42

Immunity in virus infections. T. M. Rivers. Science 95:107-12 Ja 30 '42

Immunization with inactive virus of influenza B: comparison of antibody response with that produced by infection. M. D. Eaton, W. P. Martin and others. bibliog Pub Health Rep 57:445-51 Mr 27 '42

Production of antibodies in vitro. L. Pauling and D. H. Campbell. Science 95:440-1 Ap 24 '42

Reversal of pneumococcus Quellung by digestion of the antibody with papain. G. M. Kalmanson and J. Bronfenbrenner. bibliog Science 96:21-2 Jl 3 '42

Use of the complement fixation test in Rocky Mountain spotted fever. H. Plotz and K. Wertman. Science 95:441-2 Ap 24 '42

See also

Allergens

Immunity

ANTIHEMORRHAGIC compounds. See Vitamins—Vitamin K

ANTILLA sugar estates

Plan declared effective. Comm & Fin Chr 156:308 Jl 27 '42

Reorganization plan. Comm & Fin Chr 154:1725-6 D 30 '41

ANTIMALARIALS. See Malaria

ANTIMONY

Antimony allocation starts May 1. Oil Paint & Drug Rep 141:3+ Ap 6 '42

Antimony-free frits give better finish; release critical materials for war. H. L. Fields. Cer Ind 38:64 F '42

Antimony in 1941. R. G. Hall. Min Cong J 28:52-4 F '42

Antimony supplies. Economist 141:637 N 22 '41

Comparative value of arsenic, antimony and phosphorus in preventing dezincification. W. Lynes. il Am Soc T M Proc 41:859-79 bibliog(53 titles, p877-9); Discussion. 880-5 '41

ANTIMONY—*Continued*

Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42

First spectrum of antimony. W. F. Meggers and C. J. Humphreys. bibliog J Research Nat Bur Stand 28:463-78 Ap '42

Minor metals, 1941. T. H. Miller and T. P. Wootton. Eng & Min J 143:50 F '42

Quest for antimony. F. H. Dakin. il Eng & Min J 143:62-3 S '42

Resistivity of antimony-tin single crystals at low temperatures. C. T. Lane and W. A. Dodd. Phys R 61:183-6 F 1 '42

Resonance absorption of neutrons in rhodium, antimony, and gold. H. Feeny, C. Lapointe and F. Rasetti. bibliog Phys R 61:469-75 Ap 1 '42

Ross filter foils by evaporation. J. C. Clark and R. H. Esling. il R Sci Instr 13:383-6 S '42

Secondary emission of sublimated antimony layers; abstract. P. Görlich. Wireless Eng 19:426-7 S '42

Variation of the magnetic properties of antimony with electron concentration. S. H. Browne and C. T. Lane. bibliog Phys R 60:895-9 D 15 '41

Analysis

Analysis of tin-base bearing metal; permanganate and iodometric methods for antimony and copper. J. R. Andrews and A. J. Bender. bibliog Ind & Eng Chem Anal ed 14:713-14 S 15 '42

Determination of antimony in lead-antimony alloys. L. A. Wooten and C. L. Luke. bibliog Ind & Eng Chem Anal ed 13:771-3 N 15 '41

Estimation of small amounts of antimony with rhodamine B. W. G. Fredrick. Ind & Eng Chem Anal ed 13:922-4 D 15 '41

New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

Polarographic studies; determination of antimony and bismuth. J. E. Page and F. A. Robinson. diag Soc Chem Ind J 61:93-6 Je '42

Spectrographic analysis; photographic aspects of the internal standard method; estimation of copper and antimony in an alloy. A. C. Coates and E. H. Amstein. Soc Chem Ind J 61:27-9 F '42

ANTIMONY alloys

Determination of antimony in lead-antimony alloys. L. A. Wooten and C. L. Luke. bibliog Ind & Eng Chem Anal ed 13:771-3 N 15 '41

Effect of antimony on magnesium. W. R. D. Jones and L. Powell. Engineering 152:338-9 O 24 '41

Resistivity of antimony-tin single crystals at low temperatures. C. T. Lane and W. A. Dodd. Phys R 61:183-6 F 1 '42

Temperature variation of the magnetic susceptibilities of antimony-tin alloys. S. H. Browne and C. T. Lane. diag Phys R 60:899-905 D 15 '41

Variation of the magnetic properties of antimony with electron concentration. S. H. Browne and C. T. Lane. bibliog Phys R 60:895-9 D 15 '41

See also

Type metal

ANTIMONY cyanates

Cyanates and thiocyanates of phosphorus, arsenic and antimony. H. H. Anderson. Am Chem Soc J 64:1757-9 Ag '42

ANTIMONY fluorides

Fluorinated derivatives of propane. A. L. Henne and F. W. Haeckl. Am Chem Soc J 63:3476-8 D '41

New method of synthesizing organic 1,1,1-trifluorides. A. L. Henne, A. M. Whaley and J. K. Stevenson. Am Chem Soc J 63:3478-9 D '41

ANTIMONY halides

Electric moments of inorganic halides in dioxane; phosphorus, arsenic and antimony trihalides. P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:614-17 Mr '42

ANTIMONY mines and mining

California

Quicksilver and antimony deposits of the Stayton district. E. H. Bailey and W. B. Myers. map U S Geol S Bul 931-Q:405-34, pl 64-7; pa 40c Supt. of doc. '42

ANTIMONY ores

Quicksilver and antimony deposits of the Stayton district, California. E. H. Bailey and W. B. Myers. map U S Geol S Bul 931-Q:405-34, pl 64-7; pa 40c Supt. of doc. '42

ANTIOCH process. See Foundry practice—Antioch process

ANTIOXIDANTS

Antioxidants and autoxidation of fats; the isolation of new antioxidants from vegetable fats. C. Golumbic. bibliog Am Chem Soc J 64:2337-40 O '42

Pyrogallol derivatives as gasoline antioxidants. W. W. Scheumann and J. H. Haslam. bibliog Ind & Eng Chem 34:485-8 Ap '42

Soap antioxidant. J. M. Crowe. Chem Ind 51:371 S '42

Stabilization of fats and fatty foods; abstract. H. S. Mitchell and H. C. Black. Can Chem & Process Ind 26:587 O '42

See also

Soap—Anti-oxidants

ANTIOXIDANTS for rubber. See Rubber—Aging

ANTIPLASMODIAL action. See Plasmodium

ANTIQUES

Photographing antiques. L. A. Waters. il Am Phot 36:24-6 Ap '42

Some aspects of museum laboratory work. H. J. Plenderleith. Chem & Ind 60:807-12 N 15 '41

ANTIRRHINUM. See Snapdragons

ANTISEPTICS

Chemotherapeutic studies in the acridine series; the chloroaminoacridines. F. R. Bradbury and W. H. Linnell. Chem Soc J p377-81 Je '42

Dicarboxylic acid derivatives of sulfonamides. M. L. Moore and C. S. Miller. bibliog Am Chem Soc J 64:1572-6 Jl '42

Disinfectants and antiseptics; scientific and technical advances during 1941. E. G. Klarmann. bibliog(75 references) Soap & San Chem 18:99-101, 101A-101B+ Ja '42

Infections and lesions in minor surgery; advancement in iodine therapy. I. Zweigel. bibliog Ind Med 10:553-6 D '41

More antiseptics from molds. Science 95:626-7 Je 19 '42

Relative toxicity of certain antiseptics containing soap and alcohol with special reference to mouth washes; abstract. H. Welch and C. M. Brewer. Soap & San Chem 18:107 Ap '42

Significance of urinary mercury; mercury absorption from mercury-bearing dental fillings and antiseptics. E. D. Storlazzi and H. B. Elkins. J Ind Hygiene 23:464-5 D '41

Synthesis of pentyl- and hexyl-α-naphthol. Y. Chi and C. Jang. Am Chem Soc J 63:3155-6 N '41

Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

Vicinal substituted resorcinols; alkylresorcinols; the synthesis of γ-n-hexyl, γ-n-heptyl and γ-n-octylresorcinols. A. Russell and H. C. Gulledge. Am Chem Soc J 64:1313-15 Je '42

See also

Bacteriostasis
Chloramine T
Disinfection and disinfectants
Listerine
Soap
Textile fabrics—Antiseptic treatment

ANTISPASMODICS
4-Morpholinealkyl esters and amides possessing antispasmodic activity. L. C. Cheney and W. G. Bywater. bibliog Am Chem Soc J 64:970-3 Ap '42
See also
Anticonvulsants

ANTONOFF'S rule
Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42
Validity of Antonoff's rule. G. Antonoff. bibliog J Phys Chem 46:497-9 Ap '42

ANTS
Ants and their control in California. J. E. Eckert and A. Mallis. (Agric. exp. sta. circ. 342) rev ed 39p Univ. of California, Berkeley '41
Warfare among ants; abstract. L. J. Lafleur. Science 95:sup6 Ja 30 '42

ANTS as carriers of infection
Ants as probable agents in the spread of Shigella infections. S. D. Griffitts. Science 96:271-2 S 18 '42

AORTA

Diseases

Dissecting aneurysm of the aorta; evaluation of the role of exertion in its production. C. B. Cherry and K. T. Cherry. bibliog Ind Med 10:525-8 D '41

APALACHIA project
Apalachia project of the TVA; dam, conduit and penstock. C. H. Vivian. il map Comp Air M 47:6723-32 My '42

APARTMENT hotels
Bright future for New York apartment hotels. Comm & Fin Chr 156:1252 O 8 '42
George Washington hotel, St Louis, remodeled into an asset; views and plans. Arch Rec 91:42-3 F '42

APARTMENT houses
Row-type apartments in 194x. il plans Arch Forum 77:76-7 S '42
See also
Studio apartments

Designs and plans

Advantages of Florida apartment colony type of planning demonstrated. il plans Am Bld 64:65A-65B F '42
How Paul T. Stone made FHA title VI work; four-family units built back-to-back. il diags plans Am Bld 64:50-1 Mr '42
Liebert's Milwaukee apartment shows how to stay in building business. il plan Am Bld 64:62-4 Mr '42
See also
Apartment houses, Remodeled

Garden apartments

Garden apartments using the master room; new house of 194x. il plans Arch Forum 77:95 S '42

Heating and ventilation

Individual apartment heating; gas-fired winter air conditioners, N. J. garden type apartments. il Sheet Metal Worker 33:119-20 Ja '42

Protection

A.R.P. in apartments; New York building superintendents' initiative, plus aid from tenants and owners, produces fire buggies, etc. il Arch Forum 76:363-5 Je '42

APARTMENT houses, Remodeled
City house, apartments; remodeled brownstone houses; views and plans. Arch Rec 91:42-3 F '42
Four large apartments now twelve small ones. il plans Am Bld 64:60 F '42
Remodeling of old houses into smaller family units; views and plans. Arch Forum 76:344-8 My '42

APARTMENTS
Gas heat for individual apartments. il plan Sheet Metal Worker 33:38, 40 Ag '42
Individual apartment heating cost. il Sheet Metal Worker 33:54 Ag '42
Master room for 194x; one-room apartment. il plans Arch Forum 77:92-5 S '42
Row-type apartments in 194x. il plans Arch Forum 77:76-7 S '42

APARTMENTS, Studio. See Studio apartments

APATITE
Carbonate-apatites; francolite from the Richtersveld, South Africa. J. E. de Villiers. bibliog Am J Sci 240:443-7 Je '42

APLASTIC anemia. See Anemia

APOCUPREINE
Cinchona alkaloids in pneumonia; some ethers of 6′-(β-thiolethyl)-apocupreine. R. S. Tipton and L. H. Cretcher. bibliog Am Chem Soc J 64:1162-4 My '42

APOFERRITIN
Ferritin and apoferritin. S. Granick and L. Michaelis. bibliog Science 95:439-40 Ap 24 '42

APPALACHIAN drilling contractors association
Eastern contractors form new association. Oil & Gas J 40:84 Ap 9 '42

APPALACHIAN electric power company
Supreme court rules against FPC in power suit. Comm & Fin Chr 156:1571 N 2 '42; Elec W News ed 118:1354 O 24 '42

APPLE brandy
Why not convert the apple jack plants? B. T. Branham. flow diag Food Ind 14:44-5+ Jl '42

APPLE jack. See Apple brandy

APPLE juice
Why not convert the apple jack plants? B. T. Branham. flow diag Food Ind 14:44-5+ Jl '42

APPLE sirup
Sweet as cider; government chemists turn cider to syrup, and waste pulp to high-powered pectin. Business Week p68 F 14 '42

APPLES
Apples in Canada. For Comm W 8:23-4 Ag 22 '42
New understanding affects Canada's apple industry. For Comm W 9:24 O 10 '42

Storage

Apple growers favor private cold storage plants. H. H. Slawson. Refrig Eng 43:390+ Je '42
Controlled atmosphere storage for Jonathan apples; storing in four levels of carbon dioxide concentration by restricted ventilation. H. H. Plagge. bibliog il Refrig Eng 43:215-20 Ap '42
Cooling storage rooms by brine spray system. G. O. Weddell. il Food Ind 14:59-61 S; 56-8 O '42
External factors affecting water loss from apples in cold storage. S. A. Pieniazek. Refrig Eng 44:171-3 S '42
Some factors affecting apple scald disease. R. M. Smock and F. W. Southwick. Science 95:576-7 Je 5 '42

Transportation

Corrugated apple boxes. Pulp & Pa of Can 43:797 S '42; Same. Paper Tr J 115:21 S 24 '42

APPLETON, Wisconsin

Sewerage

Sewage treatment at Appleton, with particular reference to the preparation and utilization of air dried sludge. C. O. Baetz. il Water Works & Sewerage 89:273-4 Je '42

APPLICATIONS for positions
Getting that job. R. C. Bedell and others. 55p bibliog(p53-5) pa 50c Extension division, Univ. of Nebraska, Lincoln '41
P.S.—he got that government job. F. D. Gonda. Sales Management 50:39-41 My 1 '42
Your career in business. W. Hoving. 211p $1 Garden City pub. co, Garden City, N.Y. '42

APPOINTMENT, Power of. See Power of appointment

APPRENTICES

Apprentice training program developed by General electric co. R. E. Ellis. il Steel 111:56-8 S 28 '42

Apprentice training speeds war production; Westinghouse electric and manufacturing company. Marine Eng 47:136+ My '42

Carries on apprentice training; Falk corp. J. C. Hubel. il Foundry 70:76+ Jl '42

Co-operative management-labor apprenticeship plan; Murray corp. of America. G. E. Stedman. il Steel 111:74-6, 118-23 S 7 '42

Engineering employment agreement; between the Engineering and allied employers national federation and the Amalgamated engineering union. Electrician 129:244 S 4 '42

Junior male workers; agreement affecting apprentices. Engineer 174:177 Ag 28 '42

Michigan farm-apprentice plan. Monthly Labor R 54:70-2 Ja '42

Selection of engineers. Engineering 153:252 Mr 27 '42; Discussion. 154:75-6 Jl 24 '42

Set apprentice standards for carpenter training. Eng N 129:327 S 3 '42

Training apprentices in the laboratory. H. R. McCoy. il Foundry 70:58-60, 157-9 F; 72-3, 153-7 Mr '42

Training craftsmen for the engineering industry. F. H. Reid. Engineering 153:75-6 Ja 23 '42

Training for the future; Landis tool company. F. A. Firnhaber. Am Mach 86:282-4 Ap 2 '42

Training in a job shop. H. Boyar. il Am Mach 86:329-30 Ap 16 '42

Training methods for war production; abstract. W. F. Patterson. Foundry 70:139-40 My '42

Wisconsin apprenticeship standards; sheet metal men set up new code. Sheet Metal Worker 33:44, 46+ O '42

See also

Employees, Training of

APRICOTS

Analysis

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

APRICOTS, Dried

Brief summaries of AMS standards, dried apricots. Food Ind 14:56+ F '42

Brief summaries of grade standards issued by the Agricultural marketing administration. Food Ind 14:99-100 N '42

APRONS

Oil proof aprons and gloves find many uses. il Sci Am 167:32-3 Jl '42

APTITUDE tests. See Ability tests

AQUATIC plants

See also

Water chestnuts

AQUEDUCTS

Constructing the Delaware aqueduct under the Shawangunk range. F. W. Stiefel. il Civil Eng 12:199-202 Ap '42

Construction of Charleston's Edisto-Goose Creek tunnel. il map Pub Works 72:15-16+ N '41

Delaware aqueduct. il diags plans Engineer 174:184-6, 208-10, 226-8, 248-50, 270-2, 290-2 S 4-O 9 '42

Edisto river, Goose Creek tunnel aqueduct, Charleston, S.C.; tunnel driven thru marl. J. E. Gibson. il diags plan map N E Water Works Assn J 56:102-22 Mr '42

Flow characteristics of pipe lines, with special reference to the new pressure aqueduct of the metropolitan water district. W. F. Covil. Boston Soc C E J 29:22-37 Ja '42

Grouting tunnel lining on the Delaware aqueduct. il diags plan Eng N 128:19-21 Ja 1 '42

Hydraulics of the new pressure aqueduct of the metropolitan water district. K. R. Kennison. map Boston Soc C E J 29:1-21 Ja '42

Lining the world's longest tunnel; New York City's Delaware water supply system. il diag Eng N 127:792-7 D 4 '41

Merriman dam and Delaware aqueduct; construction progress and methods on water supply project for New York city. R. W. Armstrong. il Civil Eng 12:449-52 Ag '42

Overcoming underground difficulties; driving pressure tunnel in deep rock for Delaware aqueduct. F. W. Stiefel. il diags Comp Air M 46:6607-14 D '41

Safety in rock tunnel construction; New York City Delaware River aqueduct. F. W. Stiefel. il Explosives Eng 20:239-42 Ag '42

Steel siphon rehabilitation on the Los Angeles aqueduct. W. W. Hurlbut, B. S. Grant and H. A. Price. il diags map Am Water Works Assn J 34:1635-66 N '42

Tunneling under difficulties; part of the Delaware aqueduct was drilled at great depths. R. G. Skerrett. il Sci Am 167:212-14 N '42

Water volume in partly filled tunnel. L. J. Sack. diags Eng N 129:33 Jl 2 '42

ARABIA

Middle East. Fortune 25:175 F '42

Middle East; its power politics; intrigue and the strong man are the keys. R. Strausz-Hupé and R. S. Nathan. il map Fortune 26:92-5+ N '42

ARABINOSE

Constitution of arabo-galactan; the location of the arabinose component. E. V. White. bibliog Am Chem Soc J 64:1507-11 Jl '42

ARABOGALACTAN

Constitution of arabo-galactan: the components and position of linkage. E. V. White. bibliog Am Chem Soc J 63:2871-5 N '41

Constitution of arabo-galactan; the isolation of heptamethyl- and octamethyl-6-galactosidogalactose through partial hydrolysis of methylated arabogalactan. E. V. White. bibliog Am Chem Soc J 64:302-6 F '42

Constitution of arabo-galactan; the location of the arabinose component. E. V. White. bibliog Am Chem Soc J 64:1507-11 Jl '42

ARALAC

Aralac. F. C. Atwood. Am Dyestuff Rep 31:155-8 Mr 30 '42

Aralac, a newcomer in the galaxy of textile fibres. F. C. Atwood. il Chem Ind 49:822-4, 828 D '41

Determination of Aralac. Textile World 92:136 Ap '42

Fibers from milk; Aralac. il Textile World 91:84 N '41; Business Week p38 N 22 '41; Food Ind 13:47 D '41

Most interesting test results on Aralac fibers and fabrics. F. T. Mosedale. il Rayon 23:521-2 S '42

New casein fiber Aralac now an assured success in textile manufacturing. il Rayon 22:652-4 N '41; Excerpt. Am Dyestuff Rep 30:667-8 N 24 '41

New technical and identification facts on Aralac. Rayon 23:520 S '42

Textiles from casein protein fiber. il Mod Plastics 19:38-9+ D '41

Textiles from milk. Textile Col 64:18-19 Ja '42

What is Aralac? F. C. Atwood. il Rayon 23:154-5 Mr '42

Analysis

Aralac; determination of phosphorus in Aralac. F. C. Atwood. Am Dyestuff Rep 31:157-8 Mr 30 '42

ARBITRATION

Justice without delay; time and money saved when business disputes are settled by arbitration. W. Weiss. Barron's 21:9 D 29 '41

ARBITRATION, Industrial

Activities of the United States conciliation service, November 1941. Monthly Labor R 54:97-9 Ja '42 [cont monthly]

Activities of the United States conciliation service, 1941-42. Monthly Labor R 55:747-9 O '42

ARBITRATION, Industrial—*Continued*

Arbitration; an unfavorable award; trade association of employers and a union. C. S. Slocombe. Personnel J 20:139-46 O '41; Abstract. Management R 31:15-16 Ja '42

Arbitration clauses in union contracts. Management R 30:463-4 D '41

Compulsory arbitration in Cuban labor disputes. G. S. Messersmith. Monthly Labor R 54:430-1 F '42

Give and take in bargaining on wages. J. R. Steelman. Advanced Management 7:38-41 Ja-Mr '42

Industrial disputes in 1941. Survey of Cur Business 21:4-6 D '41

Labor arbitration; principles and procedures. J. A. Lapp. 231p $3.50 National foremen's inst, 60 E. 42d st, New York '42

Labor disputes settled while you wait; American arbitration association. G. L. Blumenschine. il Food Ind 14:58-9 Mr '42

Local progress in labor peace. W. L. Nunn. 27p pa 35c Nat. municipal league, New York '41

Negotiation and arbitration. C. S. Slocombe. Personnel J 21:151-6 O '42

Scope of labor arbitration; abstract. D. Morse. Management R 30:442-4 D '41

Solving labour problems in Australia. O. de R. Foenander. 168p $3.75 Stechert '41

Steelman stymied; Montgomery Ward rebuff to Msgr Haas. Business Week p58+ My 23 '42; Reply. p95 Je 27 '42

WLB adopts three point program to end wildcat strikes slowing war production. Comm & Fin Chr 156:1641 N 5 '42

See also

National mediation board

National railroad adjustment board

National war labor board

Strikes

ARBITRATION, International

See also

Courts, International

ARBORS and mandrels

Carbide dies for drawing and sinking metal tubing. E. Glen. diags Iron Age 150:64-5 Ag 27 '42

Expanding arbors for lathe work. J. G. Jergens. diags Am Mach 86:438-9 My 14 '42

Roller holds work on arbor. G. Holman. diag Am Mach 86:1022 S 17 '42

Slotted mandrel keeps blank from slipping. D. I. Krauss. diags Am Mach 85:1321 D 24 '41

ARC lamps. See Electric lamps, Arc

ARC welding. See Electric welding, Arc

ARCBACK, Theory of

New approach to the study of arcback. J. E. White. bibliog il diags J Ap Phys 13:265-73 Ap '42

Phase of arcback. A. W. Hull and F. R. Elder. bibliog il diags J Ap Phys 13:171-8 Mr '42

ARCHAEOLOGY. See Archeology

ARCHED bridges. See Bridges, Arched

ARCHEOLOGY

Recent archeological research in Latin America. W. D. Strong. Science 95:179-83 F 20 '42

Research problems in an archeological ceramic laboratory. F. R. Matson. Am Cer Soc Bul 20:451-3 D '41

See also

Man, Prehistoric

ARCHER-DANIELS-MIDLAND company

Another look. Mag of Wall St 70:29 Ap 18 '42

Another look. Mag of Wall St 71:47 O 17 '42

ARCHES

Blimp hangars set new timber arch record. diags Eng N 129:576-7 O 22 '42

Measured stresses in a two-hinged beam arch; Purdue University field house. P. E. Soneson. il diags Civil Eng 12:209-12 Ap '42

Rigid-frame arches for an auditorium, Denver. P. J. Foehl. il diag Eng N 128:546-7 Ap 9 '42

Timber arches give clear floor for navy drill hall. il Eng N 129:597 O 29 '42

See also

Bridges, Arched

ARCHES, Concrete

Concrete arched aeroplane hangars. Engineer 173:247 Mr 20 '42

Navy builds concrete hangars at San Diego; thin-shell barrel-type arch structures. il Eng N 127:786-8 D 4 '41

Wide-span hangars for the U.S. navy; reinforced concrete structures of unique design. A. Tedesko. il diags Civil Eng 11:697-700 D '41

Centering

Integral centering for concrete arch ribs; unusual construction procedure expedites building of asphalt plant for borough of Manhattan, New York. G. M. Serber. il diags Civil Eng 12:439-41 Ag '42

ARCHES, Wood

Glued-laminated wood construction. il Mod Plastics 19:44-5 F '42

Laminated lumber speeds huge expansion at Great Lakes naval training station. J. S. Samelson. il Am Bld 64:52-3+ My '42

Timber arches for a laboratory; building for the Army Signal corps. il diag Eng N 128:416-17 Mr 12 '42

ARCHITECTS

Architects and engineers at work; results of questionnaire on past, present and future activities. il Arch Rec 92:48-50 Ag '42

From fence posts to factories; saga of a small-city architect. M. E. Witmer. Arch Rec 90:14, 18 D '41

On to Washington? map Arch Rec 91:38-40+ Mr '42

Plant planning; an interview with William Lescaze, architect, by W. S. Ross. il Mod Packaging 15:82-5+ D '41

So I said to myself; notes by an anonymous architect. Arch Rec 92:30-1 Ag '42

We're pushed aside say architects; report of AIA committee. Am Bld 64:58 Ag '42

What do school architects and educators envision? symposium. il Arch Rec 91:68-71 Mr '42

See also

Advertising—Architects, Appeal to

Architecture

Architect-engineer groups

How an A-E-M contract works; details of architect-engineer manager organization. Eng N 129:179-82 Jl 30 '42

Technical teams for war work; combined architect-engineer offices. Arch Rec 91:40-1 My; 36-7, 94 Je '42

See also Kahn, Albert, associated architects and engineers, inc.

Government relations

AIA fights curtailment of building; demands government use architects' skill in planning for protection. Arch Rec 91:10+ Ja '42

Certainties in uncertain times. K. K. Stowell. Arch Rec 91:35 Je '42

Government contracts and contacts. il Arch Rec 91:42-3 My '42

Technical teams for war work; combined architect-engineer offices. Arch Rec 91:40-1 My '42

Great Britain

Architects handle humanity instead of building programs in Britain's civil defense. E. Reid. Arch Rec 91:22+ Mr '42

British architects look ahead. Arch Rec 90:22 N '41

British architects said goodbye to their art but earn wartime bread and butter. E. Reid. Arch Rec 91:24+ Ja '42

News from London; two examples of how architects managed to get government work. J. E. Reid. Arch Rec 91:28+ Je '42

ARCHITECTS—Great Britain—*Continued*

Supplement to the R.I.B.A. Kalendar, 1939-40. 63p pa 2s Royal inst. of British architects, 66 Portland pl, London, W 1, '42

ARCHITECTS, Government

See also United States—Supervising architect's office

ARCHITECTS' offices

Raymond farm, New Hope, Pa., house including architectural office. il diag plans Arch Forum 75:341-6 N '41

Management

Producer of production lines: Albert Kahn associated architects and engineers, inc. il Arch Rec 91:39-42 Je '42

ARCHITECTURAL acoustics. See Acoustics, Architectural

ARCHITECTURAL metal work. See Sheet metal work, Architectural

ARCHITECTURE

In the nature of materials; 1887-1941, the buildings of Frank Lloyd Wright. H. R. Hitchcock. 143p $5 Duell, Sloan and Pearce, New York '42

On being an architect. W. Lescaze. 287p $3 Putnam '42

Pumping stations can be attractive. il Eng N 129:260-1 Ag 20 '42

Town and Davis, architects; pioneers in American revivalist architecture, 1812-1870. R. H. Newton. 334p $4 Columbia univ. press '42

See also

Acoustics, Architectural
Airport buildings
Architects
Auditoriums
Balconies
Bank buildings
Bathhouses
Building
Building materials
Buildings
Chimneys
Church architecture
Clinics
Clubhouses
Cold storage lockers
Concrete buildings
Concrete construction
Courthouses
Factories
Farm buildings
Fire houses
Fireproof construction
Floors
Footings
Foundations
Glass construction
Heating
Hillside architecture
Hospitals
Hotels
Housing
Industrial buildings
Insurance company buildings
Interior decoration
Laboratories
Landscape gardening
Library architecture
Motor bus lines—Terminals
Moving picture studios
Moving picture theaters
Mural painting and decoration
Naval architecture
Newspaper offices
Office buildings
Plumbing
Post offices
Power plants—Architecture
Public buildings
Radio broadcasting studios
Railroads—Stations
Recreation buildings
Roofs
School buildings
Sheet metal work, Architectural
Shopping centers
Steel construction
Store buildings
Strains and stresses
Strength of materials
Swimming pools
Theaters
Trusses
Ventilation
Walls
Warehouses
Windowless construction
Windows
Wood construction

Consult Art Index for additional references

Conservation and restoration

Historic American buildings survey; catalog of the measured drawings and photographs of the survey in the Library of Congress, March 1, 1941. 2d ed 470p Nat. park service, Washington, D.C.; pa 75c Supt. of doc. '41

Designs and plans

See also

Architecture, Domestic—Designs and plans
Prisons

Details

1001 distinctive building details. 61p $2 Industrial publications, Chicago '42

See also

Chimneys
Cupolas
Lintels
Roofs
Stairways
Windows

Study and teaching

Education and architecture. J. Hudnut. Arch Rec 92:36-8+ O '42

California

Administration building for an industrial plant in California; views, plan and construction outline. Arch Forum 77:89-92 Ag '42

Caribbean region

Buildings for the Caribbean area. il diag plans Arch Forum 77:46-8 Jl '42

Massachusetts

Mill and mansion; a study of architecture and society in Lowell, Mass., 1820-1865. J. Coolidge. 261p bibliog(p223-31) $3.75 Columbia univ. press '42

North Carolina

Early architecture of North Carolina; a pictorial survey, by F. B. Johnston, with an architectural history, by T. T. Waterman. 290p $10 Univ. of North Carolina press '41

Scotland

Building Scotland; a cautionary guide. A. Reiach and R. Hurd. 44p 2s 6d C. J. Cousland and sons, Edinburgh '41

Sweden

Lessons from Swedish schools. G. E. K. Smith. il plans Arch Rec 92:39-52 O '42

Tropics

Projected construction; types of troop housing suitable for use in semitropical areas. il diags plans Arch Forum 77:38-48 Jl '42

ARCHITECTURE, Domestic

Accent on space; critique of residence of T. S. Holden, Darien, Connecticut. J. Labatut. il plans Arch Rec 92:55-62 Jl '42

Be it ever so humble; or, Hellions on the hearth. D. T. Farnham. 235p bibliog(p233-5) $2.50 Harper '42

Gas industry in relation to post-war domestic architecture. E. Crowther. Gas J (Lond) 238:457-60 Je 17 '42; Discussion. 238:529, 531; 239:61, 169-70, 206 Je 24, Jl 8, 29-Ag 5 '42

Houses; views, plans, construction outlines. Arch Forum 77:51-61 O '42

Housing from the tenant's viewpoint; study by E. Coit. diags plans Arch Rec 91:71-84 bibliog(p84) Ap '42

New house 194x; with 33 projected designs. il diags plans Arch Forum 77:65-152 S '42

Portfolio of modern houses; views, plans and construction outline, George Fred Keck, architect. Arch Forum 77:67-82 Ag '42

Post-war housing; possibilities of gas and coke for heating; architectural design and heating. T. Potterton. diag plans Gas J (Lond) 238:318+ My 27 '42

Public tenant speaks. L. Wayman. il plans Arch Forum 76:217-22 Ap '42

Rooms of your house; what and where? 58p 75c D'Alroy & Hart, St Louis '41

Your own house. T. P. Robinson and E. F. Robinson. 183p $3 Viking press '41

See also

Apartment houses
Attics
Bathrooms
Brick houses
Closets
Concrete houses
Cottages
Country houses
Dormitories
Farmhouses
Guest houses
Heating
Hillside architecture
Houses
Houses, Prefabricated
Houses, Remodeled
Houses, Row
Housing
Housing projects
Interior decoration
Kitchens
Landscape gardening
Plumbing
Steel houses
Tourist camps, hostels, etc.
Week-end houses

ARCHITECTURE, Domestic—*Continued*

Designs and plans

A-1 priority on year 'round charm; small homes with unusual architectural appeal in defense home price range. il plan Am Bld 64:52-3 Ja '42

Build small now, enlarge later. il diags plans Am Bld 64:56-8 My '42

Deluxe small homes. 80p pa $1 L. F. Garlinghouse co, 728 Kansas av, Topeka, Kan. '41

Design of modern interiors. J. Ford and K. M. Ford. 130p $5 Architectural book pub. co, 112 W. 46th st, New York '42

Extensibility found in Detroit homes. il plans Am Bld 63:46-7 D '41

Good planning, attractiveness and extensibility under title VI; Cedar Rapids house. il diags plans Am Bld 64:58-9 Mr '42

House, kitchen, window for 194x. il diag plan Arch Forum 77:122-3 S '42

Houses in the small house series. il plans Arch Forum 75:305-20, 393-408; 76:101-12, 177-87, 237-52 N-D '41, F-Ap '42

Houses of wood. il diags plans Arch Rec 91:49-60 Ja '42

Houses without priorities; case for the over-$6000 house. il diags plans map Arch Forum 75:383-92 D '41

Housing for defense; building types study with standards, case study and time-saver standards. il diags plans Arch Rec 90:71-96 N '41

Housing unit, details; new house of 194x; hydro-electric elevator is core of the house. il diag plans Arch Forum 77:82-3 S '42

How Smith & Dawson have kept 'em building; Chicago builders adjust operations in Prospect Heights development. R. E. Sangster. il diags plans Am Bld 64:34-8+ Jl '42

How to change a plan for extensibility. diags plans Am Bld 64:52-3+ F '42

How to plan a house. G. Townsend and J. R. Dalzell. 525p $4.50 Am. technical soc, 850 E. 58th st, Chicago '42

How to remodel a house. J. R. Dalzell and G. Townsend. 528p $4.50 Am. technical soc, Drexel av. at 58th st, Chicago '42

In a peaceful spot, home with a future; River Oaks, Texas. il plan Am Bld 64:54-5 Ag '42

Levitt & sons of Virginia set new standards in Title VI war homes; Oakdale Farms project will be 90% rented to naval officers. J. B. Mason. il diags plans Am Bld 64:48-53+ Je '42

Low cost, high style in war-worker homes. il plans Am Bld 64:47-9 F '42

Low-cost homes for Florida. P. P. Hart. 43p bibliog(p42-3) Univ. of Florida, School of architecture and allied arts, Gainesville '41

Monticello Village, fast moving title VI victory home job. il plans Am Bld 64:65-7 Ap '42

Need two-bedroom war houses all look alike? il diag plans Am Bld 64:54-5 My '42

New architectural elements; house of 194x. il plans Arch Forum 77:124-7 S '42

New ideas for building your home. J. Normile, ed. rev ed 195p pa 50c Meredith pub. co, Des Moines, Iowa '42

Philadelphia builders rush row houses under Title VI for rent or sale. il diags plans Am Bld 64:48-51+ My '42

Planning for economy and flexibility. il diag plans Arch Forum 77:117-19 S '42

Presenting an extensible house; small home to provide good, needed shelter while conserving critical materials. R. E. Sangster. il plans Am Bld 63:44-5 D '41

Pre-war charm; post-war pattern; small home of reasonable cost. il diags plan Am Bld 64:56 S '42

Purdue research offers a low cost house, using non-critical material. il plans Am Bld 64:42-3 Ag '42

Six small houses in Texas. il Arch Rec 91:53-7 Je '42

Small houses. il diags plans Arch Rec 90:59-70 N '41

Southern variations in modern planning; both from Texas. il diags plans Am Bld 63:60-1 D '41

Standards versus essential space. G. Howe, O. Stonorov and L. I. Kahn. il plans Arch Forum 76:308-11 My '42

Title VI rental rows recommended by FHA; efficiency designs and economy layouts. il plans Am Bld 64:52-7 Mr '42

War housing. il diags plans Arch Forum 76:261-343 My '42

War needs; housing. il diags plans Arch Rec 91:47-62 Ap '42

See also

Apartment houses—Designs and plans

Houses, Model

Bibliography

Index to 1941 house designs and plans published in the American builder during 1941. Am Bld 63:52 D '41

Details

1001 distinctive building details. $2 Industrial publications, 59 E. Van Buren st, Chicago '42

Restyling the old-time cozy corner with glass and mirrors. il diags Am Bld 64:29 Jl '42

Two-family houses

Duplexes; better value war housing for Detroit. il plans Am Bld 64:48-50+ S '42

84 permanent units within 42 buildings, Garden Oaks Village, Houston, Texas. il plans Arch Forum 76:292-3 My '42

Arizona

Desert cottage in Scottsdale. il plan Arch Forum 76:104-5 F '42

California

Contra costa co. house split into separate buildings; views and plans. Arch Forum 75:318-19 N '41

Houses in Palo Alto, built as an investment; views, plans, and construction outline. Arch Forum 75:400 D '41

Houses of wood. il diags plans Arch Rec 91:53, 56-9 Ja '42

Menlo Park home with open living areas; flush redwood boards inside and out. il diag plan Arch Rec 90:68-9 N '41

Two modern houses in San Francisco. il diags plans Arch Forum 76:355-62 Je '42

Merrimack valley

Architectural heritage of the Merrimack; early houses and gardens. J. M. Howells. 229p $10 Architectural book pub. co, New York '41

Texas

Six small houses in Texas. il plans Arch Rec 91:53-7 Je '42

ARCHIVES

Guide to libraries and archives in Central America and the West Indies, Panama, Bermuda, and British Guiana; supplemented with information on private libraries, bookbinding, bookselling, and printing. A. E. Gropp. 721p bibliog(p685-704) pa $5 Middle American research inst, Tulane univ. of Louisiana, New Orleans '41

ARCONOGRAPH

Graphic records for quality control in welding. H. Lawrence. il Steel 109:76, 79+ D 1 '41

ARCTIC regions

Arctic supply line; shortest and safest way to send aid to Russian and Chinese allies. V. Stefansson. map Fortune 26:64-6+ Jl '42

Fifty years below zero; a lifetime of adventure in the Far North. C. D. Brower. 310p $3 Dodd '42

See also

Lapland

AREA measurement

Conductive area of steel rails. J. L. Skeehan. Elec W 118:948-9 S 19 '42

Cylindrical areas in heating and ventilating processes. W. F. Schaphorst. Heat & Ven 39:27 Mr '42

AREA measurement—*Continued*

Cylindrical areas in mining processes. chart Can Min J 63:224 Ap '42

Determining surface area of stampings. N. Hall. Metal Finishing 39:662-5 D '41

Quantities of cylindrical intersections; water supply, subway and other construction. L. J. Sack. diags Eng N 128:618-21 Ap 23 '42

See also

Particles

ARGENTINA

Argentina and the United States. C. H. Haring. 77p bibliog pa 25c World peace foundation '41

Argentina; the life story of a nation. J. W. White. 366p bibliog(p354-6) $3.75 Viking press '42

Engineer looks at South America. J. C. Cosgrove. il maps Explosives Eng 20:20-4, 54-5 Ja-F '42

Living and office operating costs in Argentina. il For Comm W 7:8-9+ My 30 '42

See also

Agricultural colonization—Argentina
Botany—Argentina
Cost of living—Argentina
Debts, Public—Argentina
Electric apparatus industry—Argentina
Finance—Argentina
Insurance—Argentina
Insurance, Social—Argentina
Labor laws and legislation—Argentina
Mines and mineral resources—Argentina
Paleontology—Argentina
Petroleum industry and trade—Argentina
Public works—Argentina
Railroads—Argentina
Social laws and legislation—Argentina

Commerce

Argentine; first six months' foreign trade. Bankers M 145:239-40 S '42

Dive bombers from skimmed milk. il For Comm W 8:9+ Ag 15 '42

News by countries. For Comm W 9:12-15 O 3 '42

Prospects for Argentine bonds; trade position greatly improved in 1941. F. M. Stern. Barron's 22:18 F 2 '42

Telling Argentina; United States application of economic pressure. Business Week p37 Ap 4 '42

Tungsten deal; U.S. will buy Argentina's entire output. Business Week p67-8 D 6 '41

Commercial policy

Financial and economical control established over activities of non-American firms. For Comm W 8:11 Ag 1 '42

Economic conditions

Annual report of the Central bank of the Argentine Republic, 1941. Fed Res Bul 28: 892-910 S '42

Argentina in 1941. Economist 142:sup12-13 Mr 14 '42

Economic recovery in Argentina. F. M. Stern. Bankers M 144:99-102, 104 F '42

Foreigners, food and fuel in Argentina. Economist 142:291-2 F 28 '42

News by countries. Published in Foreign commerce weekly

Foreign relations

Argentine democracy and neutrality. Economist 142:11-12 Ja 3 '42

Trouble in Argentina. Economist 142:213-14 F 14 '42

Germany

Nazi activity in Argentina. Economist 141: 503-4 O 25 '41

Politics and government

Government of the Argentine Republic. A. F. Macdonald. 476p $3.75 Crowell '42

Views

Our beautiful Americas: Argentina. L. Fodor, ed. 77p $1.75 Hastings house, New York '41

ARGINASE

Increased liver arginase on administration of adrenocortical and corticotropic hormones. H. Fraenkel-Conrat and H. M. Evans. bibliog Science 95:305-6 Mr 20 '42

ARGON

Diffraction of X-rays by argon in the liquid, vapor, and critical regions. A. Eisenstein and N. S. Gingrich. bibliog diags Phys R 62:261-70 S 1 '42

Ionization of argon and neon by electron impact. D. P. Stevenson and J. A. Hipple. bibliog Phys R 62:237-40 S 1 '42

Ionization of gases by collisions of their own accelerated atoms and molecules. H. W. Berry, R. N. Varney and S. Newberry. diag Phys R 61:63-4 Ja 1 '42

ARGON, Liquid

Radial distribution function in liquids. J. G. Kirkwood and E. M. Boggs. bibliog J Chem Phys 10:394-402 Je '42

ARITHMETIC

College arithmetic. H. D. Larsen. 102p pa $2 Univ. of New Mexico press, Albuquerque '41

Review of arithmetic. Z. L. Smith. 37p pa 25c Inst. of military studies, Univ. of Chicago, Chicago '42

See also

Cube root

ARITHMETIC, Commercial

Business mathematics for colleges. L. A. Rice, A. C. Boyd and F. B. Mayne. 239p $1.60 South-western pub. co. '42

Mathematics of business and finance. W. B. Dyess and R. O. Gilmore. 221p, 214p $3.50 McGraw-Hill '42

Preparatory business mathematics. L. L. Smail. 182p pa $1.50 Lloyd Leroy Smail, Lehigh univ, Bethlehem, Pa. '41

Study and teaching

Commercial arithmetic knowledge of students in a collegiate school of business. J. S. Orleans and E. Saxe. 80p School of education, College of the city of New York, Convent av. & 139th st, New York '41

ARIZONA

Economic, political and social survey of Phoenix and the Valley of the sun. A. G. Horton. Coronado ed 279p $5 Southside progress, Tempe, Ariz. '41

See also

Copper mines and mining—Arizona
Geology—Arizona
Mines and mineral resources—Arizona

Antiquities

Ceremonial cave in the Winchester mountains. W. S. Fulton. 35p, 13pls Amerind foundation, Dragoon, Ariz. '41

ARKANSAS

See also

Gas, Natural—Arkansas
Manganese mines and mining—Arkansas
Public lands—Arkansas

Industries and resources

Arkansas' natural resources herald important industrial developments. L. A. Henry. il map Chem & Met Eng 49:93-5 Je '42

History of chemistry in Arkansas. H. Hale and P. G. Horton. J Chem Educ 19:357 Ag '42

ARKANSAS natural gas corporation

Brief description. Pub Util 29:562-3 Ap 23 '42

ARKANSAS power and light company

Inquiry ordered. Comm & Fin Chr 156:599 Ag 17 '42

ARMAMENTS

Armament of big bombers. J. I. Waddington. il Aero Digest 41:226, 229 O '42

Arms maintenance program offered army, navy by GM. il Steel 110:32-3 Mr 23 '42

Engineering outlook; the engineering industry and armaments production. Engineering 153:102-4 F 6 '42

ARMAMENTS—*Continued*

How can we accelerate the armament program? R. T. Kent. Mach 48:127-30 D '41

See also

Armor plate

Munitions

Ordnance

Tanks, Military

ARMATURES

Automotive armature winding. J. Beater. 2d ed 130p $2 Automobile digest, Cincinnati '41

Currents in d.c. armatures. Electrician 128: 185-7 Mr 6 '42

Theory of the inductor alternator. J. H. Walker. bibliog diags Inst E E J 89 pt 2: 227-41 Je '42

Repair

Armature baker. il Steel 111:86 Ag 10 '42

Armature repairs speeded with infra-red lamps. H. C. McDaniel. il Coal Age 47: 66+ Mr '42

How to band an armature; illustrated instructions. Power 86:428 Je '42

Testing

How to test an armature; illustrated instructions. Power 86:347 Ap '42

ARMIES

See also

Demobilization

also subdivision Army under names of countries, e.g. Great Britain—Army; United States—Army

Commissariat

Commercial gas equipment in military establishments. J. W. McNair. Gas Age 89:41-3+ My 7 '42

Food for fighters; new dehydration process. A. R. Boone. il Sci Am 167:20-2 Jl '42

Making dried fruit bars for the army K ration. Food Ind 14:117 O '42

Manual of mess management. 340p $2 Military service pub. co, 100 Telegraph bldg, Harrisburg, Pa. '41

See also United States—Army—Commissariat

ARMOR plate

Aircraft armor made faster, tougher; Breeze process. il Aviation 41:120-2 S '42

Armor plate planer made of structural shapes. il Iron Age 150:51 S 3 '42

Armor pool. Business Week p17-18 Ap 4 '42

Battleship armor, 200-ton chunks of jewelry steel; illustrations. Iron Age 149:70-1 Ja 1 '42

Carburized armor plate for aircraft; liquid carburizing and press quenching; Breeze corp. il Iron Age 148:56-8 N 13 '41

Conserving the alloying elements of light armor steels. A. F. Macconochie. il Steel 111:172-4, 177-8, 180 O 5 '42

Dornier armoring examined. Iron Age 150: 53 N 12 '42

How to machine cast armor plate. F. W. Lucht. diags Am Mach 86:1023-38 S 17 '42

Light alloy armor plate; penetration tests. Iron Age 149:41 Mr 19 '42

Pit planers for the navy; for machining armor plate. il Iron Age 149:58-9 F 12 '42

Spring manufacturer awarded $306,000,000 in armor plate orders; company accepts responsibility for subcontracting to 15 former competitors. Steel 110:30 Mr 23 '42

Tough steel; armor plate almost wrecks plant. Sci Am 167:108 S '42

Tunnel kilns found suitable for heat-treating armor plate. Brick & Clay Rec 100:17 My '42

ARMORED steel. See Steel, Stainless clad

ARMORED trucks. See Motor trucks, Military

ARMORIES

Armory-auditorium, Lumberton, N.C.; view and plan. Arch Rec 90:74 D '41

See also

Arsenals

Heating and ventilation

High velocity air circulation solves problem of heating large gym or armory; system used in Northwestern university's Patten gym. il diag Heating-Piping 14:30-1 Ja '42

ARMOUR and company of Illinois

$50,000,000 revolving credit. Comm & Fin Chr 156:1571 N 2 '42

1941 financial report. Comm & Fin Chr 155: 86 Ja 6 '42

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:14-15 O 17 '42

ARMOUR research foundation

Industrial research progress at Armour research foundation 1940-41. H. Vagtborg. il News Ed 19:1465-71 D 25 '41

National registry of rare chemicals. Science 96:106 Jl 31 '42

ARMS and armor

See also

Armor plate

Firearms

Helmets

Ordnance

Rifles

ARMSTRONG, Edwin Howard, 1890-

Portrait. Fortune 25:66 Ap '42

ARMSTRONG, Harry G. 1899-

Major Harry G. Armstrong named for Jeffries award. J Aeronautical Sci 9:113-14 Ja '42

ARMSTRONG cork company

Consolidated income account, 1938-1941. Comm & Fin Chr 155:2452 Je 29 '42

How Armstrong converted its sales set-up for war times. A. R. Hahn. il Sales Management 51:18-21 O 1 '42

ARMY camps. See Military posts; Military training camps

ARMY fabrics

Army blankets on carpet looms. J. N. Dow. il Textile World 92:70-2 Je '42

Blending wools for army fabrics. W. F. Neumann. il Textile World 92:60-1 Ja '42

Cloth, cotton; herringbone twill used for the manufacture of suits, working (one-piece) for enlisted men of the army. Textile Col 64:226+ My '42

Cloth, cotton; uniform, twill used for uniforms, U.S. army personnel. Textile Col 64:236+ My '42

Dyed cotton textile items for war use. O. W. Clark. Textile Col 64:138-46 Mr '42

Dyeing with sulphur dyes with special reference to khaki, blue and grey shades. H. Boothroyd. Soc Dyers & Col J 58:25-7 F '42; Same. Textile Col 64:296-9 Je '42; Discussion. Soc Dyers & Col J 58:27-8 F '42

Fabric specifications for army; cloth, cotton; wind resistant used for windbreakers. Textile Col 64:241+ My '42

Fabrics for military purposes; cotton and acetate rayon fabrics for sleeping-bags; banner silk substitute. il Textile World 92: 68 My '42

Fabrics for military purposes; cotton drills sought by army and navy; cotton canvas padding, and 48-oz. duck. il Textile World 92:63 Ag '42

Fabrics for military purposes; data on cotton drills and substitutes. il Textile World 92:66 Je '42

Fabrics for military purposes; gray constructions of army fabrics. Textile World 92:74 Mr '42

Fabrics for military purposes; osnaburgs for sand bags; water-repellent duck; wristlets. il Textile World 92:127 F '42

Fabrics for military purposes; rayon, nylon and other synthetics. il Textile World 92: 102-3 S '42

Fabrics for military purposes; WAACS winter uniforms made of covert cloth. il Textile World 92:76 O '42

Fabrics for military use; uniform twill modified; facing-cloth specification. il Textile World 92:59+ Ja '42

Fabrics for national defense; elastiques, silesia lining cloth and woolen suiting. il Textile World 91:86 N '41

Fabrics for national defense; wool lining fabric, unbleached cotton drill, and pressed wool felt. il Textile World 91:78 D '41

ARMY fabrics—*Continued*

Faults in worsted piece dyeing and dyeing of service cloths. J. A. Eastwood. Textile Col 63:624-5, 646-7 N '41

Finishing army overcoatings. D. Welsh. il Textile World 92:68-9 Mr '42

Finishing O.D. lining cloth; pointers on fulling, scouring, and other operations for this wool-cotton blend. D. Welsh. il Textile World 92:66 Jl '42

Knit goods for military purposes. Textile World 92:88-9 Ap '42

Making cotton ducks to meet government specifications. il Textile World 92:105-6 F '42

Manufacturing army overcoatings. F. Sykes. il Textile World 92:66-7 Mr '42

Mildewproofing army fabrics; copper napthenate process. il Textile World 92:101 F '42

Mildewproofing army fabrics; determination of percentage of copper. R. A. Allen. Textile World 92:73 Ap '42

Mildewproofing military fabrics; phenyl mercuric acetate effective. W. S. Marsh and A. E. Duske. bibliog il Textile World 92:58-60 Ag '42

Mildewproofing of military fabrics. C. W. Hock and M. Harris. bibliog Textile Col 64:401-3 Ag '42

New coated finish; vinyl acetal plastic in place of rubber to waterproof army fabrics. il Textile World 92:88-9 S '42

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942. Am Dyestuff Rep 31:402-7 Ag 17 '42

Place of sulfur colors in our war production. J. L. Crist. Am Dyestuff Rep 31:133-6 Mr 16 '42

Preventing neps in army twill. Textile World 92:99-100 Ag '42

Purchase and inspection of textiles for the army. V. Painter. Am Dyestuff Rep 31:2-3+ Ja 5 '42

Right for rain. il Mod Plastics 19:40-3+ Jl '42

Sulfur colors for the army. F. M. Steadman. Am Dyestuff Rep 31:211-12 Ap 27 '42

Sulphurs versus vats in military fabrics. Textile Col 64:129 Mr '42

Textile war manual; how to obtain government contracts. Textile World 92:68-71 F '42

Textiles in war. F. M. Steadman. Am Dyestuff Rep 31:527-9 O 26 '42

Why does the QM reject fabrics? H. P. Galloway. il Textile World 91:70-1 D '41

Why QM rejects cotton fabrics; most common yarn faults and finishing defects. il Textile World 92:73 Mr '42

Why QM rejects cotton fabrics; weaving imperfections; other defects. il Textile World 92:55 Ja '42

Why QM rejects knit goods. il Textile World 92:87 Ap '42

See also
Uniforms, Military
United States—Army—Textile requirements

ARMY food. See Armies—Commissariat; United States—Army—Commissariat

ARMY newspapers

President hails new AEF newspaper. Comm & Fin Chr 156:25 Jl 2 '42

ARMY post exchanges. See Post exchanges

ARMY posts. See Military posts

ARMY rations. See Armies—Commissariat; United States—Army—Commissariat

ARMY stores. See Post exchanges

ARMY transportation corps. See United States—Army—Transportation corps

ARMY trucks. See Motor trucks, Military

ARNOLD, Thurman Wesley, 1891-

Arnold vs. ICC; sides with complainant in suit over trucking merger. Business Week p23-4 Ag 1 '42

How to avoid Thurman Arnold. por Business Week p16 Ap 4 '42

ARNOLD arboretum

Atkins institution of the Arnold arboretum; planting expansion program. Science 94:534 D 5 '41

ARNOTT, David, 1878-

Awarded Miller memorial medal. por Marine Eng 46:156 N '41; Power 85:997a-997c Mid-D '41

Miller medalist; presentation by D. S. Jacobus; reply by D. Arnott. por Welding J 20:804+ N '41

AROMATIC compounds

Chemistry of the lignan group of natural products. R. D. Haworth. Chem Soc J p448-56 Jl '42

Stereochemistry of catalytic hydrogenation; the stereochemistry of the hydrogenation of aromatic rings. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-91 S '42

Steric influences on the aromaticity of dipyrrylmethenes; the synthesis and study of the properties of a di-N-methyldipyrrylmethene. K. J. Brunings and A. H. Corwin. bibliog Am Chem Soc J 64:593-600 Mr '42

See also
Hydrocarbons, Aromatic

ARPARAGINE

Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

ARROW poisons

Curare will be made available in medicine; studies by O. Wintersteiner and J. D. Dutcher. F. Thone. Science 95:sup10 My 1 '42

ARROYO SECO

Flood deposits of Arroyo Seco, Los Angeles county, California. W. C. Krumbein. bibliog diags maps Geol Soc Bul 53:1355-1402, pl 1-7 S '42

ARSENALS

Equipment

Casting guns centrifugally at Watertown. R. W. Case. il Foundry 70:62-3+ F '42

ARSENIC

Arsenic; except for Australia, Empire countries are small producers. L. Sanderson. Can Min J 63:290-1 My '42

Arsenic in natural phosphates and phosphate fertilizers. T. H. Tremearne and K. D. Jacob. U S Agric Tech Bul 781:1-40 '41

Arsenic production in Spain. Chem Age (Lond) 46:90 F 14 '42

Beta-ray spectra of arsenic, rubidium, and krypton. G. L. Weil. bibliog diag Phys R 62:229-37 S 1 '42

Colorimetric determination of phosphorus in soils; provision for eliminating the interference of arsenic. M. S. Sherman. bibliog Ind & Eng Chem Anal ed 14:182-5 F 15 '42

Comparative value of arsenic, antimony, and phosphorus in preventing dezincification. W. Lynes. il Am Soc T M Proc 41:859-79 bibliog(53 titles, p877-9); Discussion. 880-5 '41

Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42

Mexico replaces Sweden as Argentine source of arsenic. Chem & Eng N 20:182 F 10 '42

Minor metals, 1941. H. A. Franke. Eng & Min J 143:50 F '42

Use of arsenic in the glass industry. W. A. Weyl. bibliog Glass Ind 23:253-7+ Jl '42

Analysis

Colorimetric microdetermination of arsenic. M. B. Jacobs and J. Nagler. bibliog diag Ind & Eng Chem Anal ed 14:442-4 My 15 '42

Colorimetric microdetermination of arsenic after evolution as arsine. E. B. Sandell. diag Ind & Eng Chem Anal ed 14:82-3 Ja 15 '42

Determination of arsenic in biological material; a photometric method. D. M. Hubbard. bibliog il Ind & Eng Chem Anal ed 13:915-18 D 15 '41

ARSENIC—Analysis—*Continued*

Determination of arsenic in organic compounds; an iodometric semimicroprocedure. H. A. Sloviter, W. M. McNabb and E. C. Wagner. bibliog Ind & Eng Chem Anal ed 14:516-19 Je 15 '42

Micromethod for determination of arsenic. Sister Emily Cahill and Sister Louisella Walters. bibliog diag Ind & Eng Chem Anal ed 14:90-1 Ja 15 '42

Molybdenum blue reaction; a spectrophotometric study. J. T. Woods and M. G. Mellon. bibliog(76 references) Ind & Eng Chem Anal ed 13:760-4 N 15 '41

Polarographic determination of arsenic in biological material. K. Bambach. bibliog Ind & Eng Chem Anal ed 14:265-7 Mr 15 '42

Rapid spectrographic determination of minute amounts of arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

ARSENIC compounds

See also

Arsine

ARSENIC cyanates

Cyanates and thiocyanates of phosphorus, arsenic and antimony. H. H. Anderson. Am Chem Soc J 64:1757-9 Ag '42

ARSENIC halides

Electric moments of inorganic halides in dioxane; phosphorus, arsenic and antimony trihalides. P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:614-17 Mr '42

ARSENIDES

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

ARSENIOUS acid

Rate of reduction of vanadium pentoxide in concentrated acid solutions; reduction of vanadium pentoxide by arsenious acid, oxalic acid, formaldehyde and ethyl alcohol. M. Bobtelsky and A. Glasner. bibliog Am Chem Soc J 64:1462-9 Je '42

ARSINE

Colorimetric microdetermination of arsenic. M. B. Jacobs and J. Nagler. bibliog diag Ind & Eng Chem Anal ed 14:442-4 My 15 '42

Interaction of chloramine-T and hydrogen sulphide, phosphine, and arsine. J. R. Bendall, F. G. Mann and D. Purdie. Chem Soc J p157-63 F '42

Analysis

Colorimetric microdetermination of arsenic after evolution as arsine. E. B. Sandell. diag Ind & Eng Chem Anal ed 14:82-3 Ja 15 '42

ARSINE oxides

Arsine oxides of naphthalene and biphenyl. G. O. Doak, H. Eagle and H. G. Steinman. bibliog Am Chem Soc J 64:1064-6 My '42

ARSON

No fires of incendiary origin in defense industries in six months. East Underw 43:22 My 29 '42

ARSONIC acids

Arsine oxides of naphthalene and biphenyl. G. O. Doak, H. Eagle and H. G. Steinman. bibliog Am Chem Soc J 64:1064-6 My '42

Sulfophenylarsonic acids and certain of their derivatives; derivatives of *p*-sulfonamidophenylarsonic acid. E. L. Way and J. F. Oneto. Am Chem Soc J 64:1287-8 Je '42

ART

See also

Architects
Architecture
Design
Enamel and enameling
Interior decoration
Photography
Pottery
Sculpture
Surrealism (art)

Consult Art Index for additional references

Bibliography

Art bibliography. A. R. Young, comp. 78p pa 70c Teachers college '41

Art index, October 1938-September 1941. 1297p Wilson, H.W. '41

Art index, October 1941-September 1942. 399p Wilson, H.W. '42

Private collections

Trust company exhibits art collection; administration of John G. Johnson collection. Trusts & Estates 73:504 N '41

Psychology

Art in human affairs; an introduction to the psychology of art. N. C. Meier. 222p $2.75 McGraw-Hill '42

ART, Commercial

See also

Advertising art

ART, Decorative

Decorative art, 1942; the Studio yearbook. C. G. Holme, ed. v37 128p $4.50; pa $3.50 Studio publications, 381 4th av, New York '42

See also

Glass, Ornamental
Glassware—Decoration
Plastic materials, Decorative
Pottery—Decoration

ART, Primitive

See also

Rock paintings

ART galleries and museums

Lighting

Combination lighting at Pittsburgh gallery. il Elec W 116:1594 N 15 '41

ART industries and trade

Study and teaching

Directory of colleges, universities and professional schools offering training in occupations concerned with art in industry. 390p pa $1.50 Inst. of women's professional relations, Connecticut college, New London '40

ART schools

See also

Cooper union

ARTERIES

Mechanical influence upon tanning. J. Bjorksten and W. J. Champion. Am Chem Soc J 64:868-9 Ap '42

ARTESIAN wells

Tunnels for increasing Honolulu's artesian water supply. diag Pub Works 73:29 Ja '42

Underground leakage from artesian wells in the Las Vega area, Nevada. P. Livingston. map U S Geol S Water-supply Pa 849-D: 147-73, pl 12-17; pa 10c Supt. of doc. '41

ARTHRITIS

Arthritis linked to childhood rheumatic fever; abstract. A. H. Baggenstoss and E. F. Rosenberg. Sci Am 166:296 Je '42

Toxic reactions and death following gold therapy in chronic arthritis. R. G. Snyder, C. H. Traeger and W. H. Squires. il Ind Med 11:425-9 S '42

Treatment of two hundred cases of chronic arthritis with electrically activated vaporized sterol. R. G. Snyder and others. bibliog il Ind Med 11:295-316 Jl '42

ARTHUR, Joseph Charles, 1850-1942

Sketch. F. D. Kern. Science 95:617-19 Je 19 '42

ARTICHOKES

Control of pH in canning acid foods. C. T. Townsend and M. J. Powers. il Food Ind 14:52-4 Ja '42

ARTIFICIAL eyes. See Eyes, Artificial

ARTIFICIAL flowers. See Flowers, Artificial

ARTIFICIAL respiration. See Respiration, Artificial

ARTIFICIAL rubber. See Rubber, Artificial

ARTIFICIAL silk. See Rayon

ARTIFICIAL wool. See Wool, Artificial

ARTILLERY

Shells and shooting. W. Ley. 223p $2 Viking press '42

ARTINSKIAN series

Artinskian series. C. O. Dunbar. bibliog diags map Am Assn Pet Geologists Bul 26:402-9 Mr '42

ARTISTS

Great flight of culture; twelve artists in U.S. exile; portfolio. il Fortune 24:102-15 D '41

ARTISTS' council for victory

Organization. Arch Rec 91:12 Mr '42

ARTISTS' materials

Artists' oil paints. diags U S Nat Bur Stand Commercial Standard CS98-42:1-22; pa 5c Supt. of doc. '42

Painting materials; a short encyclopaedia. R. J. Gettens and G. L. Stout. 333p $3.75 Van Nostrand '42

ARYLATION

ortho Alkylation and arylation of mesityl aryl ketones. R. C. Fuson and S. B. Speck. Am Chem Soc J 64:2446-8 O '42

ASBESTOS

Asbestos ducts save metal. il Am Bld 64:114 Ap '42

Asbestos in South Africa. W. E. Sinclair. il Eng & Min J 143:62-4 Jl '42

Asbestos in the U.S.S.R. Chem Age (Lond) 47:205 Ag 29 '42

Asbestos industry reaches high point. Chem & Eng N 20:472 Ap 10 '42

Asbestos suit designed for rapid use. il Sci Am 167:73 Ag '42

Operating the world's largest asbestos mine; milling practice. R. A. Denovan. flowsheets il Eng & Min J 142:51-5 N '41

Priority control on South African asbestos. For Comm W 6:20 F 7 '42

See also

Turner and Newall, limited

Testing

Tests on asbestos. Elec R (Lond) 130:258 F 20 '42

ASCORBIC acid

Ascorbic acid content of onions and observations of its distribution; abstract. E. F. Murphy. Food Ind 14:101 Ap '42

Effect of l-ascorbic acid on the isolated frog heart. R. P. Linstead and O. Krayer. Science 95:332-3 Mr 27 '42

Extraction of ascorbic acid from plant tissues. W. B. Davis. Ind & Eng Chem 34:217-18 F '42

Mechanism of the ascorbic acid-ascorbic acid oxidase reaction; the hydrogen peroxide question. H. G. Steinman and C. R. Dawson. bibliog Am Chem Soc J 64:1212-19 My '42

Physiological activity and clinical uses of ascorbic acid (vitamin C). 60 numb l bibliog(l 48-60) Merck & co, Rahway, N.J. '41

Physiological activity of ascorbic acid in plant life. E. F. Kohman and D. R. Porter. Science 95:608-9 Je 12 '42

Stability of ascorbic acid in citrus fruit juice products. A. W. E. Downer. bibliog Soc Chem Ind J 61:80-2 My '42

Synthesis of ascorbic acid in excised tomato roots. M. E. Reid and W. J. Robbins. bibliog Science 95:632-3 Je 19 '42

See also

Vitamins—Vitamin C

Analysis

Color reaction for dehydroascorbic acid useful in the determination of vitamin C. J. H. Roe and C. A. Kuether. Science 95:77 Ja 16 '42

Determination of ascorbic acid. A. W. E. Downer. Chem & Ind 60:868 D 6 '41

Determination of ascorbic acid and sulphur dioxide in fruit juices. H. F. W. Kirkpatrick. diag Soc Chem Ind J 60:226-9 Ag '41; Discussion. L. W. Mapson. Chem & Ind 60:802 N 8 '41

Effect of the presence of SO_2 in citrus juices on the titration with 2-6 dichloro-phenolindophenol. A. H. Bennett. Chem & Ind 60:851 N 29 '41

Further notes on the determination of ascorbic acid and sulphur dioxide in fruit juices. H. F. W. Kirkpatrick. Soc Chem Ind J 60:298-9 N '41

Improved photometric method for ascorbic acid. C. Carruthers. bibliog Ind & Eng Chem Anal ed 14:826-8 O 15 '42

Potentiometric determination of vitamin C; combined use of 2,6-dichlorophenolindophenol and iodate. J. B. Ramsey and E. L. Colichman. bibliog Ind & Eng Chem Anal ed 14:319-21 Ap 15 '42

Rapid photometric determination of ascorbic acid in plant materials. S. A. Morell. bibliog Ind & Eng Chem Anal ed 13:793-4 N 15 '41

ASH handling

Ash conveyors; patent. diag Mech Handling 29:151 Ag '42

Coal and ash handling plant. il diag Engineering 153:285-7, 290, 345-7 Ap 10, My 1 '42

Improving a balky ash hoist motor. P. C. Ziemke. Power Pl Eng 46:93 F '42

ASHING

Magnesium acetate as an ashing agent in fluorine analysis. W. E. Crutchfield, jr. bibliog Ind & Eng Chem Anal ed 14:57-8 Ja 15 '42

Mineral pattern of stems from vegetative and flowering plants as determined by micro-incineration. B. E. Struckmeyer. Science 96:346 O 9 '42

ASIA

Asia's part in war and peace. T. Das. Ann Am Acad 222:42-53 Jl '42

Industries and resources

Industrialization of the western Pacific. K. L. Mitchell. 322p $2.50 Inst. of Pacific relations, New York '42

ASIA, Southeast

Progress and welfare in southeast Asia; a comparison of colonial policy and practice. J. S. Furnivall. 84p pa 75c Inst. of Pacific relations, New York '41; Review (Social welfare in southeast Asia). Int Labour R 46:433-41 O '42

ASPARAGUS, Frozen

Brief summaries of AMS standards. Food Ind 14:67-8 Jl '42

ASPEN

Monoethanolamine extraction of wood for the determination of cellulose. P. Bloom, E. C. Jahn and L. E. Wise. bibliog Paper Tr J 115:33-40 S 3 '42

ASPERGILLUS

Anti-bacterial substances from moulds; spinulosin and fumigatin, metabolic products of penicillium spinulosum Thom and aspergillus fumigatus Fresenius. A. E. Oxford and H. Raistrick. Chem & Ind 61:128-9 Mr 14 '42

Production of two antibacterial substances, fumigacin and clavacin. S. A. Waksman, E. S. Horning and E. L. Spencer. bibliog Science 96:202-3 Ag 28 '42

ASPERGILLUS niger

Seminar on chemical induction of genetic changes in aspergilli. C. C. Thom. Franklin Inst J 233:284-6 Mr '42

ASPHALT

Asphalt cutoff wall at Claytor dam; sand-asphalt mix used to stop underflow. H. S. Slocum. il diag Eng N 128:490-2 Mr 26 '42; Discussion. V. A. Endersby. 128:900 Je 4 '42

Asphalt for roads placed under wartime control. il Roads & Bridges 80:21, 76-7 My '42

Asphalt; pocket reference for highway engineers. P. Hubbard and B. E. Gray. rev ed 254p 30c Asphalt inst, 801 2d av, New York '41

Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42

ASPHALT—*Continued*

Contribution to the physical chemistry of the asphalts. J. M. Swanson. bibliog il J Phys Chem 46:141-50 Ja '42

Dislocated bascule rocked into position; use of hydraulic and asphalt jacks. S. J. Michuda. il diags Eng N 128:557-9 Ap 9 '42

Emulsified asphalt stabilized base construction; with cost data; Coahoma county, Miss. B. T. Collier. il Pub Works 72:18-19 N '41

Obtaining asphalt flux by reducing Michigan crude oil. J. C. Albright. il Pet Eng 13:82 D '41

Oxidation of asphalt in thin films. A. R. Ebberts. bibliog il Ind & Eng Chem 34:1048-51 S '42

P.I.W.C. to study 12-point program on asphalt sales. Nat Pet N 34:18 Ap 15 '42

Rotary viscometer for determination of high consistencies. R. N. Traxler, J. W. Romberg and H. E. Schweyer. bibliog il diag Ind & Eng Chem Anal ed 14:340-4 Ap 15 '42

Sand bag barricades used with asphalt admixture. il Eng N 128:77 Ja 15 '42

Suitability of stabilized soil for building construction. E. L. Hansen. il diags Ill U Eng Exp Sta Bul 333:1-37 bibliog(p35-7) '41 (pa 45c)

Wartime requirements for asphalt. G. Abson. Nat Pet N 34:R60+ F 18 '42

See also
Pavements, Asphalt
Roads, Bituminous

Specifications

New asphalt specifications issued for refiners. Oil & Gas J 41:211-12 Je 25 '42

Testing

Fundamental significance of Oliensis spot test; quantitative tests for homogeneity. G. L. Oliensis. il Am Soc T M Proc 41:1108-22; Discussion. 1123-30 '41

Influence of recovery temperature on the ductility of the recovered asphalt. C. Bussow. Am Soc T M Proc 41:1131-3 '41

Measurement of oxidation stability of road asphalts. A. P. Anderson, F. H. Stross and A. Ellings. bibliog Ind & Eng Chem Anal ed 14:45-9 Ja 15 '42

ASPHALT pavements. See Pavements, Asphalt

ASPHALT plants, Municipal

Integral centering for concrete arch ribs; unusual construction procedure expedites building of asphalt plant for borough of Manhattan, New York. G. M. Serber. il diags Civil Eng 12:439-41 Ag '42

ASPHALT shingles. See Shingles, Asphalt

ASPHALTENES

Contribution to the physical chemistry of the asphalts. J. M. Swanson. bibliog il J Phys Chem 46:141-50 Ja '42

ASPHYXIA

See also
Gases, Asphyxiating and poisonous

ASSAYING

Computing a chromium-to-iron ratio; chart. R. C. Treasher and R. G. Bassett. Eng & Min J 143:68 Je '42

Fluorescent light used in molybdenum assay. Eng & Min J 143:65 S '42

ASSEMBLING methods

Adjustment of bevel gears in assembly. il diags Am Mach 86:529, 531, 613, 615 My 28-Je 11 '42

Art for production's sake; Production illustration, a three-dimensional drawing. il Fortune 25:20+ Je '42

Boeing's production density system. il Automotive & Aviation Ind 87:16-19+ O 15 '42

Bombers on parade; Consolidated aircraft corporation's new conception of mobile assembly. J. M. Gwinn, jr. il diags Am Mach 86:659-74 Je 25 '42; Same. Aviation 41:98-103+ Jl '42

Brazed assemblies save material for ordnance. diags Product Eng 13:631 N '42

Brazing of small assemblies; abstract. H. R. Brooker. Metals & Alloys 16:498+ S '42

Briggs aids aircraft production. il Iron Age 149:35-8 Ja 8 '42

Combat trainers from Texas plains; North American aviation, inc. H. F. Schwedes. il Mach 48:190-3 Jl '42

Conveyor belts speed assembly of plane parts; Douglas aircraft co. il Steel 111:66 Jl 13 '42

Curtiss-Wright produces famous fighting planes. P. N. Jansen. il Mach 48:178-81 Jl '42

Designing shrink-fit assemblies. J. Marin. il diags Machine Design 14:68-73 Je; 72-5 Jl; 78-83+ Ag '42

Detail design for joining by flash welding. L. W. Combs. il diags Product Eng 13:552-5 O '42

Douglas vertical assembly line. il Automotive & Aviation Ind 86:30-1 F 15 '42

Drill at assembly; drilling machine for assembling Reeves variable speed pulleys. il diag Am Mach 85:1141 N 12 '41

Factories laid out to produce larger lots. il Am Mach 85:1190-2 N 26 '41

5500 parts present special handling task; assembly of self-contained induction heating units. A. J. Byerly. il plan Steel 110:88, 90, 93 Mr 2 '42

How to combine copper brazing and heat-treating into a continuous process. H. M. Webber. il diags Gen Elec R 44:593-4 N '41

How to design simple jigs and fixtures to hold parts in place for welding. E. W. P. Smith. diags Steel 111:77-8+ O 19 '42

How we doubled production; Monarch machine tool company. P. A. Abe. il Factory Management 100:51 Ap '42

Installation of mechanized conveyor line raises plane production. il Steel 110:88+ Ap 27 '42

Magnetic protractor for assembling machinery. G. J. Murdock. diag Am Mach 86:657 Je 25 '42

Martin's belt-conveyor line speeds production of special sub-assemblies. il Aero Digest 39:228 D '41

Mass producing the A-20 bombers. J. D. Weaver. il diags Aviation 41:86-9, 91 Je '42

Mass production for precision equipment; Hallicrafters co. H. J. Emerson. il Electronics 14:42-5 N '41

New assembly layout, 20 percent more output. W. J. Tillman. il Factory Management 100:88-9+ Je '42

One-piece assembly device. il diags Mod Plastics 20:78+ O '42

Parts for assembling held in cotton and cellophane bags. Mach 48:157 D '41

Perspective drawings speed plane assembly. il diags Aviation 41:118-20 Je '42

Pre-fabrication of ships in the United States. il Engineering 154:327-8, 330 O 23 '42

Production breakdown illustration. G. Tharratt. diags S A E J 50:408-16 S '42; Abstract. Automotive Ind 85:24-8+ D 15 '41

Production illustrations; production shortcut for every metal-working plant; system developed by Douglas aircraft co. il diags Steel 111:56-8, 60+ Ag 24 '42

Resistance welding trench mortar fin assemblies. J. H. Cooper. il diags Welding J 21:sup501-6 O '42

Roller-line assembly; Aircooled motors corporation. il Aviation 41:78-9+ Ja '42

Screw pick-up for assembly operations. C. T. Packer. il Am Mach 86:1233-4 O 29 '42

70-ton pre-assemblies used to speed ship construction. il Eng N 129:224-8 Ag 13 '42

Simplification speeds up production; employees of Walter Kidde and company develop assembly devices. il Marine Eng 47:100-3 Je '42

Special equipment increases production of high-speed assembly press. il Mach 49:148 O '42

Spitfire V fighter in production. il diags Automotive & Aviation Ind 87:36-9+ Ag 15; 34-7+ S 1 '42

Straight-line production of Liberty cargo ships. J. A. Corlett. il Steel 110:74-5 Ap 6 '42

ASSEMBLING methods—*Continued*
Straight-line production speeds assemblies. il Am Mach 85:1198-1203 N 26 '41
Three-dimensional views boost plane production; assembly operations are simplified. il diags Am Mach 86:505-9 My 28 '42
Unique aircraft construction methods; Murray corp. of America. W. F. Sherman. il Iron Age 149:33-43 Je 25 '42
Unleashing the Thunderbolt; jigs and assembling methods; Republic aviation corporation. O. G. Pyler. il diags Am Mach 86: 1173-88 O 15 '42
Using isometric drawings to speed assembly; Douglas aircraft company. il diags Factory Management 100:73-82 Je '42
War program speeded by production line welding plant. G. F. Wolfe. il diags plans Marine Eng 47:106-14 Je '42; Same. Engineering 154:218-20, 230, 236-40 S 11-18 '42
Welding jigs for nacelle subassemblies. P. Mitchell. il Am Mach 86:1114-16 O 1 '42
Well planned materials handling in manufacture of steam steering engines; Webster-Brinkley co. il Steel 110:83-4 Mr 9 '42
Why Kaiser is the world's number one shipbuilder; Oregon shipbuilding co. C. O. Herb. il Mach 49:132-43 N '42 (to be cont)
Wiring template speeds assembly of control panels. il Iron Age 150:52 O 29 '42

ASSESSMENT
Assessment organization and personnel. 429p $3.75 Nat. assn. of assessing officers, Chicago '41
Papers presented at the 8th National conference on assessment administration, Jacksonville, Fla. Oct. 20-23, 1941. 78p Nat. assn. of assessing officers, Chicago '41

ASSET (term)
Terminology of the balance-sheet. A. C. Kelley. J Account 72:510-13 D '41

ASSETS
What is an asset? J. L. Dohr. J Account 73: 213-18 Mr '42

ASSETS, Fixed
Fixed assets. J Account 73:546 Je '42

ASSIGNMENT of book accounts
Accounts receivable. R. L. Redheffer. Banking 35:56-7 S '42; Excerpts. Bankers M 145: 344-5 O '42
Assigned accounts borrowing. H. C. Culshaw. Banking 35:57-8 S '42
Is any legislation advisable to regulate the assignment of open accounts receivable? A. E. Duncan. Credit & Fin Management 44:11-12 Je '42; Reply. F. A. Dudley. 44: 4-5 Ag '42

ASSOCIATED business papers
Annual spring conference, 18th, Absecon, N.J. Ptr Ink 199:54+ My 15 '42

ASSOCIATED electric company
Annual report, 1941. Comm & Fin Chr 156: 248 Jl 20 '42
Associated Electric hit by war. T. W. Fowler. Barron's 21:18 D 15 '41
Proposes to acquire $5,824,000 of own bonds in reorganization move. Comm & Fin Chr 156:1464 O 26 '42
Sale of Union gas and electric co. Comm & Fin Chr 155:1749 My 4 '42
To acquire assets of Central U.S. utilities co. Comm & Fin Chr 155:86 Ja 6 '42
To sell Kentucky properties. Comm & Fin Chr 155:2178-9 Je 8 '42
To sell unit. Comm & Fin Chr 156:1146 S 28 '42

ASSOCIATED equipment distributors
Semi-annual meeting, 23d, Chicago, June 8-10. Roads & Sts 85:23 Jl '42

ASSOCIATED gas and electric system
Associated Gas & Electric bonds. O. Ely. Pub Util 30:365-6 S 10 '42
Associated Gas registered gains in 1941. Elec W News ed 118:204 Jl 18 '42
Dismemberment moves made by trustees; refinancing involved. Comm & Fin Chr 154: 1590 D 20 '41
Distribution plan details announced. Comm & Fin Chr 156:748 Ag 31 '42
General protective committee assures security holders their interests are being protected. Comm & Fin Chr 155:1671 Ap 27 '42
General protective committee attacks issuance of $65,000,000 miscellaneous junior securities as new Hopson scheme to evade or avoid taxes and to manipulate stock market. Comm & Fin Chr 155:2003 My 25 '42
Handwriting expert testifies reports were fictitious. Comm & Fin Chr 154:1490 D 13 '41
Hopson's legacy; SEC divestment order for AGE corp. Business Week p86-7+ Ag 22 '42
Must divest itself of 116 companies, SEC order designed to speed geographic simplification. Comm & Fin Chr 156:660 Ag 24 '42
Offers proposal to SEC on dissolution of Associated Utilities. Comm & Fin Chr 155: 1827 My 11 '42
Plan of reorganization. Comm & Fin Chr 155:1233, 1402 Mr 26, Ap 6 '42
Properties in South Carolina involved in sale. Comm & Fin Chr 155:1502 Ap 13 '42
Recovery of $4,000,000 sought from Chase national bank. Comm & Fin Chr 156:1464 O 26 '42
SEC orders Associated to drop 116 subsidiaries. Elec W 118:623 Ag 22 '42
SEC orders delisting of stock; criticizes methods of former accountants. Comm & Fin Chr 156:599 Ag 17 '42
Setting up new service unit; will be independent of system and compete with rival concerns. Comm & Fin Chr 156:308 Jl 27 '42
System is making progress. O. Ely. Pub Util 29:365-7 Mr 12 '42
To sell Kentucky property. Comm & Fin Chr 155:1671 Ap 27 '42
To sell Ohio electric utility securities and Northeastern Water stock. Comm & Fin Chr 154:1726 D 30 '41
Treasury settles tax deficiencies amounting to $8,957,120. Comm & Fin Chr 154:1629 D 23 '41
Trustee calls for greater speed in settling recap litigation and for refinancing through borrowing instead of selling assets. Comm & Fin Chr 155:818-19 F 24 '42
Trustee Clarke files report with court; says hope of recovery for investors hinges on outcome of recap litigation. Comm & Fin Chr 154:1258 N 29 '41
Trustee files suit against two banks; alleged to have violated trusteeship under indentures. Comm & Fin Chr 155:304 Ja 20 '42
Trustees file suit against bank; charges breach of trust. Comm & Fin Chr 155:304 Ja 20 '42
Trustees' report. Comm & Fin Chr 154:1259 N 29 '41
Trustees' report. Comm & Fin Chr 155: 1301+ Mr 30 '42
Trustees review gains. Comm & Fin Chr 156:248 Jl 20 '42

ASSOCIATED general contractors of America
Annual meeting, Indianapolis. Eng N 128: 316-17 F 26 '42
Spring board meeting, Chicago. Eng N 128: 967 Je 18 '42

ASSOCIATED grocery manufacturers of America
Annual convention, 33d, New York, Nov. 5-7. Food Ind 13:73-4 D '41

ASSOCIATED indemnity corporation, San Francisco
Company analysis. Spectator (Property ed) 7:30-2 Ja 8 '42
Company analysis. Spectator (Property ed) 8:30-1 Ag 6 '42

ASSOCIATED machine tool dealers of America
Annual meeting, New York, Oct. 7. Mach 49:215 N '42; Steel 111:59 O 19 '42

ASSOCIATED mortgage companies
New offer made to holders of debentures. Comm & Fin Chr 156:953 S 14 '42

ASSOCIATED portland cement manufacturers
Ordinary general meeting, 43d, London. Economist 142:625 My 2 '42

ASSOCIATED press
Adopts new rules for admission. Ptr Ink 199:57 Ap 24 '42
Associated press denies monopoly charges in answer filed to government's suit. Comm & Fin Chr 156:1639 N 5 '42
Associated press sued as monopoly by U.S. Comm & Fin Chr 156:862, 895 S 7-10 '42
Charges U.S. suit is attack on press freedom. Comm & Fin Chr 156:1686 N 9 '42
Contends AP is not a monopoly. E. C. Michener. Comm & Fin Chr 156:1643 N 5 '42
Danger to freedom of press seen in action against Associated press. C. W. Ackerman. Comm & Fin Chr 156:1639 N 5 '42

ASSOCIATED scientific and technical societies of South Africa
Associated scientific and technical societies of South Africa. W. Cullen. Chem & Ind 60:747-8 O 18 '41

ASSOCIATED transport, inc.
Control and consolidation. Comm & Fin Chr 155:1502-3 Ap 13 '42
War aids merger. Business Week p73-4 Mr 28 '42

ASSOCIATION advertising. See Advertising, Association

ASSOCIATION and associations
Administrative regulation; a study in representation of interests. A. Leiserson. 292p $3 Univ. of Chicago press '42
Liability of automobile carrier for acts of unincorporated association; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:22-3 Ap 30 '42

See also
Advertising, Association
Benefit societies
Cooperation
Corporations
Employers' associations
Engineering societies
Scientific societies
Trade associations
Trade unions

ASSOCIATION of American railroads
A.A.R. brings out school kit of railroad information. il Ry Age 112:274 Ja 24 '42
Girding for wartime transportation. il Ry Age 112:981-2 My 23 '42

Engineering division

Engineering research sponsored by A.A.R. covers broad field. W. S. Lacher. il Ry Age 111:946-9+ D 6 '41

Electrical section

Annual meeting, Chicago, Oct. 28-30. Ry Age 111:796-7 N 15 '41

Freight claim division

Annual meeting, Chicago, April 28-29. Ry Age 112:905-6 My 9 '42

Mechanical division

Committee changes. Ry Age 113:385 S 5 '42

Electrical section

Annual meeting, Chicago, Oct. 28-30. Ry Age 111:797-9 N 15 '41

Purchases and stores division

Railway supply forces prescribe for effective war effort. Ry Age 113:219-29 Ag 8 '42

ASSOCIATION of American soap and glycerine producers
Annual meeting, 15th, New York, Jan. 14. Soap & San Chem 18:30-1+ F '42

ASSOCIATION of British chambers of commerce
Post-war industrial reconstruction. Engineer 173:414-15 My 15 '42

ASSOCIATION of British chemical manufacturers
Annual general meeting, 25th, London, Oct. 9. Chem Age (Lond) 45:208-9 O 18 '41
Annual general meeting, 26th, London, Oct. 8. Chem Age (Lond) 47:333-5 O 17 '42

ASSOCIATION of casualty and surety executives
Annual meeting, New York, May 12. East Underw 43:28-9 My 15; 36-7 My 22 '42; Nat Underw 46:17+ My 14 '42; Weekly Underw 146:1118-19 My 16 '42
New standing committees. East Underw 43:38 Je 5 '42
Vital contributions to national defense. Ins Field (Fire ed) 70:15 D 18 '41

ASSOCIATION of college geology teachers
Annual meeting, 5th, plans, purposes. Science 95:376 Ap 10 '42

ASSOCIATION of consulting chemists and chemical engineers
Elects officers. Oil Paint & Drug Rep 142:4+ N 2 '42

ASSOCIATION of export advertising agencies
Export agencies form association. Ptr Ink 200:24 Jl 24 '42

ASSOCIATION of highway officials of the North Atlantic states
Annual meeting, 18th, Philadelphia. Eng N 128:368-70 Mr 5 '42

ASSOCIATION of iron and steel engineers
Annual meeting, Pittsburgh. Iron Age 150:51-4 O 8 '42
Engineers to examine production innovations; annual meeting program. Iron Age 150:65-7 S 17 '42

ASSOCIATION of life agency officers
Joint meeting with Life insurance sales research bureau, 20th, Toronto, Nov. 3-5. East Underw 42:1+ N 7 '41; Ins Field (Life ed) 70:5-6+ N 7 '41; Nat Underw (Life ed) 45:1+ N 7 '41; Spectator (Life ed) 147:12-13+ N 6; 17+ N 20 '41; Weekly Underw 145:1094, 1096-1105 N 8 '41
Training committee of agency officers. Weekly Underw 145:1461 D 27 '41

ASSOCIATION of life insurance counsel
Annual meeting, New York, Dec. 9-10. East Underw 42:26 D 12 '41; Ins Field (Life ed) 70:14 D 12 '41; Nat Underw (Life ed) 45:6 D 12 '41; Weekly Underw 145:1325+ D 13 '41

ASSOCIATION of life insurance medical directors of America
Annual meeting, 53d, New York, Oct. 21-22. East Underw 43:13 O 23 '42; Nat Underw (Life ed) 46:11 O 23 '42

ASSOCIATION of life insurance presidents
Annual convention, 35th, New York, Dec. 11-12. Ins Field (Life ed) 70:5-6+ D 19 '41; Nat Underw (Life ed) 45:3+ D 12; 2+ D 19 '41; Spectator (Life ed) 147:6-9+ D 18 '41; Weekly Underw 145:1352+ D 13 '41; Comm & Fin Chr 154:1682 D 27 '41
Cancels its annual meeting. East Underw 43:5 O 16 '42
Proceedings of the 35th annual convention, New York, Dec. 11-12, 1941. 253p The association, Robert B. Crane, asst. sec, New York '41
Prominent leaders in many fields to feature meeting. East Underw 42:3-4 N 21 '41

ASSOCIATION of military surgeons of the United States
Golden jubilee of the Association; a history of its first half-century, 1891-1941. E. E. Hume. 371p $2 The association, Washington, D.C. '41

ASSOCIATION of national advertisers
A.N.A. calls important war-time conference; government approves. il Ptr Ink 201:30+ O 9 '42
Joint meeting with American association of advertising agencies. Ptr Ink 197:13-15+ N 21 '41
Pro-advertising; joint meeting with American association of advertising agencies. Business Week p44 N 22 '41

ASSOCIATION of stock exchange firms
Association of exchange firms finds members favor principle of mandatory service charge. Comm & Fin Chr 156:353 Jl 30 '42
Meeting of the governors, St Paul. Comm & Fin Chr 156:979 S 17 '42
Renames governors. Comm & Fin Chr 156:1553 O 29 '42

ASSOCIATION of stock exchange firms—*Cont.*
Reorganized association elects officers and governors for 1941-42. Comm & Fin Chr 154:1107 N 20 '41

ASSOCIATION of supervising electrical engineers
Annual luncheon; codes of practice; technical training. Electrician 128:151-2 F 20 '42

ASTEROIDS
Comet or asteroid? fast-moving object in the constellation of Leo. C. A. Federer, jr. Science 95:sup10 Ap 3 '42

ASTHMA
Profits on sneezes; air filters for relief of hay fever and asthma sufferers. B. G. Heebink. Sheet Metal Worker 32:62+ N '41

ASTOR, (William) Vincent, 1891-
Astor diversifies; Manhattan apartments exchanged. Business Week p64 S 19 '42

ASTRAGALUS. See Milk vetch

ASTROLABES
Students' astrolabe. A. K. Lobeck. diags Science 96:259-60 S 11 '42

ASTROLOGY
Astrology old and new. Economist 141:527 N 1 '41

ASTRONOMERS
Astronomy during the early years of the American philosophical society. S. A. Mitchell. Science 95:489-95 My 15 '42

ASTRONOMICAL distances
Distance of the sun from the earth; abstract. Science 94:sup8 N 21 '41
93,000,000 miles; after decade of laborious calculations, the sun's distance is slightly corrected. H. N. Russell. Sci Am 165:326-7 D '41

ASTRONOMICAL measurements
Orbit sleuthing; how the astronomer determines the size and shapes of a double star's orbit. H. N. Russell. Sci Am 166:134-5 Mr '42

ASTRONOMICAL observatories
Astrono-Mexico; North American astronomers assist at opening of Mexico's new National observatory. H. N. Russell. Sci Am 166:230 My '42
New national astrophysical observatory of Mexico. Science 95:164-5 F 13 '42
Observatory of the Buhl planetarium. Science 95:13-14 Ja 2 '42
Royal observatory at the Cape of Good Hope. Science 95:294-5 Mr 20 '42

See also
Greenwich royal observatory

ASTRONOMICAL photometry. See Photometry, Astronomical

ASTRONOMICAL research
John Stanley Plaskett. B. J. Bok. Science 94:453-5 N 14 '41

ASTRONOMY
Astronomical progress during 1941. Science 94:sup10 D 12 '41
Astronomy during the early years of the American philosophical society. S. A. Mitchell. Science 95:489-95 My 15 '42
Astronomy, maps, and weather. C. C. Wylie. 449p $3 Harper '42
Beyond the solar system. B. M. Parker. 36p $1 Harper '42
Essentials of astronomy. J. C. Duncan. 181p $1.85 Harper '42
Foundations of astronomy. W. M. Smart. 268p $4.20 Longmans '42
Molecular spectra of astronomical interest. H. N. Russell. Sci Am 166:18-19 Ja '42
Telescoptics. A. G. Ingalls. il Published in monthly numbers of Scientific American

See also
Astrophysics
Earth
Eclipses, Solar
Life in other worlds
Nautical astronomy
Stars
Sun

Bibliography

Harvard books on astronomy. C. H. Smiley. Science 94:490-2 N 21 '41

History

Galileo, Newton, and Halley. Engineering 154:334-5 O 23 '42

Nomenclature

Pronunciation of star and constellation names. J. Stokley. Science 96:sup7 Ag 14 '42

ASTRONOMY, Nautical. See Nautical astronomy

ASTROPHYSICAL research

See also
Astronomical observatories

ASTROPHYSICS
Annals of the Astrophysical observatory of the Smithsonian institution. C. G. Abbot, L. B. Aldrich and W. H. Hoover. v6 207p Smithsonian institution, Washington, D.C. '42
Astrono-Mexico; North American astronomers assist at opening of Mexico's new National observatory; Inter-American congress on astrophysics. H. N. Russell. Sci Am 166:230-1 My '42
Stellar advertising signs; neon, rare on earth, 1000 times more abundant in the stars. H. N. Russell. il Sci Am 166:68-9 F '42

See also
Nebulae
Stars

ATABRIN
Atabrine licensing limited for present. Oil Paint & Drug Rep 141:4 Je 8 '42
Atabrine manufacture by Merck approved. Oil Paint & Drug Rep 141:5+ My 18 '42
Atabrine patent licensing urged. Oil Paint & Drug Rep 141:3+ Ap 20 '42
Atabrine, plasmochin admitted to U.S.P. Oil Paint & Drug Rep 141:7+ Je 29 '42
Atabrine production plans being studied. Oil Paint & Drug Rep 141:5+ My 11 '42
Quinine quest. Business Week p66+ Mr 14 '42
Quinine substitute marketing probed. Oil Paint & Drug Rep 141:3+ Mr 30 '42

ATCHISON, Topeka and Santa Fé railway
Annual report. Comm & Fin Chr 155:1503 Ap 13 '42
Rail securities for appreciation. S. Devlin. Mag of Wall St 70:557+ S 5 '42
Santa Fe aids the war effort. il Ry Age 113:694-6 O 31 '42

ATEBRIN. See Atabrin

ATHLETE'S foot (disease)
Athlete's foot; a method for testing water soluble and water miscible fungicides used in the prevention of its spread. E. G. Klarmann, V. A. Shternov and S. M. Costigan. Soap & San Chem 17:129, 131+ D '41
Athlete's foot control; report on the efficacy of the sodium thiosulfate footbath. C. Weirich and R. Pokoruy. il Soap & San Chem 18:97, 99+ Mr '42
Athlete's foot; infection reduced by new flooring, copper cement material called Hubbellite; abstract. W. L. Mallmann. Sci Am 166:11 Ja '42
Athlete's foot; phenol and camphor remedy. E. Neff. Science 95:sup10 Ja 16 '42
First shoe sterilizer. Science 95:sup12 Ja 16 '42

ATHLETIC fields
Drainage of recreation grounds. il diags Pub Works 73:22-4 My '42
Houston completes million dollar high school athletic field. il Eng N 129:530 O 15 '42

ATHLETICS

Accidents

Athletic injuries; prevention, diagnosis and treatment. A. Thorndike. 2d ed rev 216p bibliog(p204-8) $3 Lea & Febiger, Philadelphia '42

ATLANTA, Georgia

Rapid transit

Making the old ones last; curtailed use of private automobiles has caused the Georgia power company to recondition 18 retired street cars and to purchase 23 second-hand units to provide additional service. il Transit J 86:242-3 Jl '42

ATLANTIC charter, 1941

Atlantic charter and Africa from an American standpoint. 164p bibliog(p144-50) pa 75c Africa bur, 156 5th av, New York '42

Atlantic charter for all humanity: FDR. Comm & Fin Chr 156:1638 N 5 '42

British association conference on mineral resources and the Atlantic charter. Engineer 174:91-3, 111-13, 139-40, 150-1, 179-80 Jl 31-Ag 28 '42; Chem Age (Lond) 47:103-5 Ag 1 '42

Charter of United nations no pledge of free trade. Rayon 23:513 S '42

Eight points of post-war world reorganization. J. E. Johnsen, comp. Ref Shelf v 15, no 5: 1-126 bibliog(p103-26) '42 (90c)

Peace without platitudes; new world order whose just powers derive from the consent of the governed. J. F. Dulles. Fortune 25: 42-3+ Ja '42

President reaffirms principles of Atlantic charter. Comm & Fin Chr 156:634 Ag 20 '42

ATLANTIC CITY gas company

First mortgage 5s, 1960; first and refunding 5s, 1957. Comm & Fin Chr 156:874 S 10 '42

ATLANTIC coast

Army dim-out for Eastern seaboard. Elec W 117:1516 My 2 '42

Atlantic seaboard to be military area. Comm & Fin Chr 155:1710 Ap 30 '42

ATLANTIC coast line railroad

Atlantic Coast Line enjoys boom. A. Jansen. Barron's 22:19 S 28 '42

C. McD. Davis elected president. Ry Age 113: 643 O 24 '42

Railroad securities. Comm & Fin Chr 156: 1701 N 12 '42

Secondary offering of bonds; condensed income statement, 1940 and 1941. Comm & Fin Chr 155:1914-15 My 18 '42

ATLANTIC commission company

A.&P. co-op flops; chain drops plan to market big share of nation's produce through Atlantic commission. Business Week p54+ Mr 21 '42

ATLANTIC Gulf and West Indies steamship lines

Consolidated income account, 1940 and 1941. Comm & Fin Chr 155:1671 Ap 27 '42

ATLANTIC intracoastal waterway. See Waterways—United States

ATLANTIC life insurance company, Richmond, Va.

Atlantic Life bought by Reserve Loan Life owners. Nat Underw (Life ed) 45:supp D 12 '41

ATLANTIC mutual insurance company of New York

Observing 100th anniversary. East Underw 43:1+ Ap 3 '42

100 colorful years. L. A. Mack. il Weekly Underw 146:764-5+ Ap 4 '42

ATLANTIC ocean

Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; diatomaceae. K. E. Lohman. il U S Geol S Professional Pa 196-B:55-86, pl 11-17; pa 45c Supt. of doc. '41

Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; ostracoda. W. L. Tressler. il U S Geol S Professional Pa 196-C:95-104, pl 18-19; pa 15c Supt. of doc. '41

ATLANTIC refining company

Annual report. Comm & Fin Chr 155:1210 Mr 23 '42

Discovers new process to speed up production of synthetic rubber. Comm & Fin Chr 156:510 Ag 10 '42

Who's who in refining. Oil & Gas J 41:62-3 Jl 16 '42

ATLANTIC states shippers advisory board

Annual meeting, 18th, Newark, N.J. Jan. 8. Ry Age 112:223+ Ja 17 '42

ATLAS corporation

Annual report. Comm & Fin Chr 155:692 F 14 '42

ATLAS plywood corporation

Stocks in a strong earnings position for 1942. Mag of Wall St 70:142+ My 16 '42

ATLAS powder company

Annual report. Comm & Fin Chr 155:635 F 10 '42

ATLAS supply company

Some modern aids to accounting and control. J. O. Williford. il J Account 74:217-26 S '42

ATLASES

Hammond's world atlas and gazetteer. self-revising ed 48p $1 Garden City pub. co, Garden City, N.Y. '42

New atlas of China; land, air and sea routes. M. Rajchman. 24p pa $1.50 Day '41

ATLASES, Historical. See Historical atlases

ATMOLYZERS

Mechanical concentration of gases. C. G. Maier. bibliog diags U S Bur Mines Bul 431:1-148; pa 20c Supt. of doc. '40

ATMOSPHERE

Cosmic-ray electrons of low energy in the atmosphere. B. Rossi and S. J. Klapman. Phys R 61:414-21 Ap 1 '42

Heat transfer by infrared radiation in the atmosphere. W. M. Elsasser. (Harvard meteorological studies 6) 107p bibliog(p102-7) pa $1.25 Harvard univ, Blue Hill meteorological observatory, Milton, Mass. '42

Historical note on the deflecting influence of the rotation of the earth. E. W. Woolard. bibliog Franklin Inst J 233:465-70 My '42

Pollen concentration of the atmosphere. A. O. Dahl and R. V. Ellis. bibliog diag Pub Health Rep 57:369-77 Mr 13 '42

Propagation of sound through the atmosphere; bearing on audibility of aircraft and on exploration of altitudes. B. Haurwitz. bibliog map J Aeronautical Sci 9:35-43 D '41

Propagation of sound waves in the atmosphere. B. Gutenberg. bibliog Acoustical Soc Am J 14:151-5 O '42

Quantity of vaporous water in the atmosphere. C. G. Abbot. Smithsonian Misc Coll v 101, no 12:1-7 '42

Transmission of light in the atmosphere with applications to aviation. H. G. Houghton. bibliog J Aeronautical Sci 9: 103-7 Ja '42

See also

Air
Atmospheric electricity
Fog
Haze
Meteorology

ATMOSPHERE, Upper

Daily variations in the heat of the sun; abstract. Science 94:sup8 N 21 '41

Intensity of the light of the night sky; magnetic disturbances; behaviour of the F_2 layer; abstract. G. Leithäuser. Wireless Eng 19:366-7 Ag '42

Ionospheric investigations at Huancayo magnetic observatory (Peru) with applications to wave transmission theory; abstract. H. W. Wells. Electronics 15:33-4 F '42

Physical state of the upper atmosphere. B. Haurwitz. 96p bibliog(pvii-viii,89-96) pa 75c Royal astronomical soc. of Canada, 198 College st, Toronto '41

Reflection of electromagnetic waves from a parabolic friction-free ionized layer. O. E. H. Rydbeck. J Ap Phys 13:577-81 S '42

Sun and the ionosphere. S. Chapman. diags Inst E E J 88 pt 1:400-13 N '41; Abstracts. Electrician 126:285-6 My 16 '41; Elec R (Lond) 128:660 My 16 '41

Temperature of the upper atmospheric layers; abstract. E. Regener. Wireless Eng 18:459-60 N '41

ATMOSPHERIC electricity

Atmospheric-electric disturbances accompanying the bright auroras of March 25, 1940, and Sept. 18, 1941. H. T. Stetson. Science 94:574-8 D 19 '41

Atmospheric electricity and allied phenomena. W. F. G. Swann. Science 96:4-6 Jl 3 '42

Cloud charge indicator. il(p54) Sci Am 166:78 F '42

Correlation between atmospheric potential gradient anomalies and solar eruptions. F. L. Cooper. bibliog Am J Sci 240:584-93 Ag '42

See also

Lightning

Thunderstorms

ATMOSPHERIC pressure

Applies atmospheric pressure to secure sound castings. H. F. Taylor and E. A. Rominski. il diags Foundry 70:74-7, 161-4 O '42

ATMOSPHERIC temperature

Climate in Yuma. J. H. Gordon. Heat & Ven 39:49 Jl '42

Loading curve for OISC transformers; chart based on temperature data of the U.S. Weather bureau. L. A. Terven. Elec W 118:968 S 19 '42

Summer of 1941 hotter than '40, degree-hour data show. Heat & Ven 38:26 D '41

See also

Air conditioning

Cooling

Thermometers and thermometry

ATMOSPHERICS. See Radio communication—Interference

ATOMIC beams. See Atoms—Beams

ATOMIC weights

Atomic weight comparisons from density and X-ray data: fluorine, calcium, and carbon. C. A. Hutchison. bibliog J Chem Phys 10:489-90 Jl '42

Density of sodium chloride; the atomic weight of fluorine by combination of crystal density and X-ray data. H. J. Johnston and D. A. Hutchison. Phys R 62:32-6 Jl 1 '42

Interconversion chart, atomic to weight per cent. R. P. Dunn. Metal Prog 40:898, 900-1 D '41

Molecular weight of potassium bromide and the atomic weights of silver, bromine and potassium. R. K. McAlpine and E. J. Bird. bibliog diag Am Chem Soc J 63:2960-5 N '41

ATOMIZERS

Mechanical carburation; heavy-oil atomiser for spark-ignited engines. diags Automobile Eng 31:408 N '41

Sharvania atomising device for steam cylinder lubrication. il diag Engineering 152:497 D 19 '41

ATOMS

Alpha-model of nuclear structure, and nuclear moments. D. R. Inglis. bibliog Phys R 60:837-51 D 15 '41

Atomic fission; abstract. M. N. Saha. Science 96:sup8 Jl 10 '42

Atomic structure. H. H. Goldsmith. 86p bibliog(p86) 70c City college store, New York '41

Atomic theory; its application to chemistry and crystal structure, with special reference to the steady state of atoms. A. C. Crehore. 71p bibliog(p68-71) pa $1.75 J. E. Johnson co, 8522 Lorain av, Cleveland '42

Chemical effects of the nuclear isomeric transition in bromine; evidence for atomic bromine and some of its properties. D. DeVault and W. F. Libby. bibliog Am Chem Soc J 63:3216-24 N '41

Cyclotron. W. M. Brobeck. il diags Elec Eng 61:348-53 Jl '42

Electric quadrupole moments of light and heavy nuclei. S. B. Welles. bibliog Phys R 62:197-203 S 1 '42

Electromagnetic properties of nuclei in the meson theory. S. T. Ma and F. C. Yu. bibliog Phys R 62:118-26 Ag 1 '42

Energy values of the $3d^84p$ electronic configuration of cobalt. M. T. Antunes. Phys R 62:362-8 O 1 '42

Exchange tensor forces in heavy nuclei. G. M. Volkoff. Phys R 62:134-6 Ag 1 '42

Excited states of nuclei beyond oxygen. A. Guthrie and R. G. Sachs. bibliog Phys R 62:8-10 Jl 1 '42

Fine structure of nuclear energy levels on the alpha-model. C. Kittel. bibliog Phys R 62:109-17 Ag 1 '42

Internal diamagnetic fields. W. E. Lamb, jr. bibliog Phys R 60:817-19 D 1 '41

Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42

Mechanism of processes initiated by excited atoms; the quenching of excited sodium. K. J. Laidler. bibliog J Chem Phys 10:34-42 Ja '42

Note on statistical forces. L. Goldstein. J Chem Phys 10:295-7 My '42

Precise determination of the fine structure constant from X-ray spin doublet splitting. R. F. Christy and J. M. Keller. Phys R 61:147-52 F 1 '42

Progress of physics; advances in understanding of atomic structure, light, electrons and the solid and liquid states from 1930-1942. E. F. Burton. il Can Chem & Process Ind 26:429-30 Jl '42

Radiofrequency spectrum of indium; nuclear spin of In^{113}. T. C. Hardy and S. Millman. bibliog Phys R 61:459-65 Ap 1 '42

Recent work in molecular beams; nuclear moments. W. H. Bessey and O. C. Simpson. Chem R 30:254-68 Ap '42

Self-consistent field, with exchange, for Si IV and Si V. W. Hartree, D. R. Hartree and M. F. Manning. bibliog Phys R 60:857-65 D 15 '41

Simplified derivation of the Bohr atom. L. S. Guss. J Chem Educ 19:371 Ag '42

Structure of atomic nuclei. R. D. Evans. J Chem Educ 19:549-50 N '42

Tensor forces and heavy nuclei. G. M. Volkoff. bibliog Phys R 62:126-33 Ag 1 '42

Tensor forces and the theory of light nuclei; properties of H^3 and He^4. E. Gerjuoy and J. Schwinger. Phys R 61:138-46 F 1 '42

See also

Atomic weights

Binding energy

Cyclotron

Deuterons

Electrons

Molecules

Neutrinos

Neutrons

Protons

Radiation

Spectrum

Stereochemistry

Beams

Production of an atomic stream of known intensity. R. W. Ditchburn. diags R Sci Instr 13:349-50 Ag '42

Collisions

Ionization of gases by collisions of their own accelerated atoms and molecules. H. W. Berry, R. N. Varney and S. Newberry. diag Phys R 61:63-4 Ja 1 '42

Disintegration

Distribution in angle of protons from the D-D reaction. H. P. Manning and others. diags Phys R 61:371-4 Mr 1 '42

Photodisintegration of beryllium and deuterium. F. E. Myers and L. C. Van Atta. bibliog diags Phys R 61:19-22 Ja 1 '42

Physics in 1941. T. H. Osgood. il J Ap Phys 13:6-9 Ja '42

Range-velocity relation for fission fragments in helium. J. K. Bøggild. il Phys R 60:827-30 D 1 '41

See also

Radioactivity

ATTACHMENT and garnishment

Frozen funds; attachment. Banking 34:41 Ja '42

Law for the layman; a western garnishee. M. L. Hayward. Barron's 22:30 Ja 12 '42

ATTAPULGUS clay. See Fuller's earth

ATTENUATORS, Radio. See Radio attenuators

ATTICS
Attic temperatures, ventilation and heat losses. P. D. Close. diags Heating-Piping 14:694-8 N '42
Effect of attic fan operation on the cooling of a structure. W. A. Hinton and A. F. Poor. il diag plans Heating-Piping 14:244-50 Ap '42; Abstract. Sheet Metal Worker 33:52-4 My '42; Discussion. Heating-Piping 14:250-1 Ap '42

ATTITUDE (psychology)
Experimental study of some problems relating to stereotypes. N. Schoenfeld. 57p bibliog(p54-5) pa $1 Columbia univ. New York '42

ATTLEE, Clement Richard, 1883-
Portrait. Fortune 25:102 Ap '42

ATTRACTIONS
Introduction to the theory of Newtonian attraction. A. S. Ramsey. 184p $2.50 Macmillan '41

AUDIOMETERS
Relation of audiogram measurements to hearing aid characteristics based on commercial experience. F. W. Kranz and C. E. Rudiger. Acoustical Soc Am J 13:363-6 Ap '42

AUDIT bureau of circulations
Streamlined convention. Ptr Ink 201:62-3 O 23 '42
Wartime A.B.C. week. Ptr Ink 201:56 O 9 '42

AUDITING
Accounting, auditing, and taxes, 1941. 216p pa $1 Am. inst. of accountants, New York '41
Activities of the S.E.C. in accounting and auditing; 7th annual report. J Account 73:573-6 Je '42
Amendment to extensions of auditing procedure. J Account 74:444-5 N '42
Auditing; theory and its application. A. W. Hanson. 488p $4 McGraw-Hill '42
Auditing under wartime conditions; joint report of committee on auditing procedure of American institute of accountants and committee on practice procedure of New York state society of certified public accountants. J Account 74:113-24 Ag '42
Auditor's report and the banker. P. F. Gray. J Account 72:527-9 D '41
Cases and questions to accompany Bell and John's Auditing. H. T. Gates. 183p $2.50 Prentice-Hall '42
Confidential relationship with client. J Account 73:81-2 Ja '42
Experiences in auditing; discovery of fraud. J Account 72:530; 73:429 D '41, My '42
Some special features in the audit of war contract costs. J. S. Seidman. J Account 74:199-201 S '42
See also
Accounting
Auditors' reports
Bank auditing

Examinations

American institute of accountants examination in auditing, Nov. 13, 1941. J Account 73:551-7 Je '42

Internal control

Auditing under wartime conditions; joint report of committee on auditing procedure of American institute of accountants and committee on practice procedure of New York state society of certified public accountants. J Account 74:113-24 Ag '42
Coöperation between the independent auditor and the internal auditor. H. L. Payte. J Account 74:153-61 Ag '42
Coördination between internal auditor and public accountant. D. F. Houlihan. J Account 73:314-20 Ap '42
Independent auditor's review of internal control. V. Z. Brink. J Account 73:430-43 My '42
Internal auditing; a vital need of modern management. J. B. Thurston. Am Gas Assn Proc 1941:154-63
Internal check, control and audit. J. A. Marvin. Am Gas Assn Proc 1941:140-3
Internal control; principles, practical adaptations, cases. C. W. Bennett. N A C A Bul 23:1537-66 Ag 1 '42
Subcontracting expands the internal audit program; Eclipse aviation division, Bendix aviation corp., Bendix, N.J. C. H. Martin. N A C A Bul 23:1049-61 Ap 1 '42

Standards

Amendment to extensions of auditing procedure. J Account 74:444-5 N '42
Auditing standards. H. C. Hawes. J Account 74:111-12 Ag '42
Auditing techniques. A. C. Littleton. J Account 74:106-10 Ag '42
Auditor's opinion on the basis of a restricted examination (No. 2). J Account 74:440-3 N '42
House we live in; allegory emphasizes need of revising standards of auditing procedure. R. J. Murphey. J Account 74:36-7 Jl '42
Need for a statement of auditing standards. S. J. Broad. J Account 74:25-35 Jl '42

AUDITORIUMS
Armory-auditorium, Lumberton, N.C. and Cass County agricultural society auditorium, Weeping Water, Neb.; views and plans. Arch Rec 90:74-5 D '41
Auditorium building redesigned in concrete. W. H. Wheeler. plans Eng N 129:578-9 O 22 '42
Auditoriums, Camp Tamiment and Green Mansions; views, plans, and construction outlines. Arch Forum 76:69-71, 75-8 F '42
Rigid-frame arches for an auditorium, Denver. P. J. Foehl. il diag Eng N 128:546-7 Ap 9 '42
See also
Church architecture
School auditoriums
Theaters

Heating and ventilation

Buffalo memorial auditorium. M. C. Beman. il Heat & Ven 38:15-17 D '41
Heating a place for meetings; Buffalo's municipal auditorium. il Dom Eng 159:64+ Mr '42

AUDITORS
Auditing standards. H. C. Hawes. J Account 74:111-12 Ag '42
Coöperation between the independent auditor and the internal auditor. H. L. Payte. J Account 74:153-61 Ag '42
How auditors can assist in trust administration. E. P. Neilan. Trusts & Estates 74:598-600 Je '42
Independence of auditors. F. H. Hurdman. bibliog J Account 73:54-60 Ja '42

AUDITORS' reports
Amendment to extensions of auditing procedure. J Account 74:444-5 N '42
Auditor's opinion on the basis of a restricted examination (No. 2). J Account 74:440-3 N '42
Auditor's report and the banker. P. F. Gray. J Account 72:527-9 D '41
Interim financial statements and the auditor's report thereon; a statement by the American institute of accountants committee on auditing procedure. J Account 72:524-6 D '41
Value of an audit to a banker. R. D. Withington. Bankers M 144:212-15 Mr '42

AUDUBON Village, New Jersey
Workers' town? shipyard laborers propose to buy government-built village. il Business Week p30 N 29 '41

AUGER effect
Auger effect in relative intensities and widths of X-ray lines. J. N. Cooper. bibliog Phys R 61:234-42 Mr 1 '42
Separation of nuclear isomers. E. P. Cooper. bibliog Phys R 61:1-5 Ja 1 '42

AUGITE
Determination of extinction angles in monoclinic pyroxenes and amphiboles. F. J. Turner. bibliog Am J Sci 240:571-83 Ag '42

AURORA, Illinois

Sewerage

Gas engine performance at Aurora; with cost data. W. A. Sperry. il Water Works & Sewerage 89:323-9 Ag '42

AURORAS

Atmospheric-electric disturbances accompanying the bright auroras of March 25, 1940, and Sept. 18, 1941. H. T. Stetson. Science 94:574-8 D 19 '41

Intensity of the light of the night sky; magnetic disturbances; behaviour of the F_2 layer; abstract. G. Leithäuser. Wireless Eng 19:366-7 Ag '42

One unusual observation in the auroral display of Sept. 18. F. C. Brown. Science 94:562-3 D 12 '41

AUSTENITE

Austenitic structure. N. J. Petch. Metal Prog 42:120 Jl '42

Effect of carbon content and cooling rate on the decomposition of austenite during continuous cooling of plain carbon steels. R. F. Thomson and C. A. Siebert. bibliog il diags Am Soc for Metals Trans 30:27-43; Discussion. 43-6 Mr '42

Effect of normal elements and alloy elements on the rate of austenite transformation in cast iron at constant temperature. C. Nagler and W. P. Wood. il diags Am Soc for Metals Trans 30:491-512; Discussion. 512-15 Je '42

Effects of initial structure on austenite grain formation and coarsening. M. Baeyertz. bibliog il Am Soc for Metals Trans 30:458-88; Discussion. 488-90 Je '42

Factors influencing austenitic grain size. T. G. Digges and S. J. Rosenberg. Metal Prog 42:608+ O '42

Heat etching as a general method for revealing the austenite grain size of steels. O. O. Miller and M. J. Day. bibliog il diag Am Soc for Metals Trans 30:541-63; Discussion. 563-8 S '42

Influence of initial structure and rate of heating on the austenitic grain size of 0.5-percent-carbon steels and iron-carbon alloy. T. G. Digges and S. J. Rosenberg. J Research Nat Bur Stand 29:33-40, pl 1-29 Jl '42

Metallographic study of the formation of austenite from aggregates of ferrite and cementite in an iron-carbon alloy of 0.5 percent carbon. T. G. Digges and S. J. Rosenberg. bibliog il J Research Nat Bur Stand 29:113-21, pl 1-11 Ag '42

Transformation of austenite in 0.89% carbon steel at constant sub-critical temperature; chart and photomicrographs. Metal Prog 42:617 O '42

Transformation of retained austenite in high speed steel at subatmospheric temperatures; treatment in liquid nitrogen. P. Gordon and M. Cohen. bibliog Am Soc for Metals Trans 30:569-88; Discussion. 588-91 S '42

AUSTIN, John Raymond, 1887-

Tunnel driver extraordinary. por Explosives Eng 20:128-9 My '42

AUSTIN, Texas

Sewerage

Sewage treatment plant. il plan Arch Rec 91:58-9 My '42

AUSTRALASIA

Industries and resources

Industrialization of the western Pacific. K. L. Mitchell. 322p $2.50 Inst. of Pacific relations, New York '42

AUSTRALIA

Australia and the Australians. H. J. Timperley. 32p pa 10c Oxford '42

Australia, its genesis, present and future; and what is the future of economic man. H. Gepp. Paper Tr J 114:40-4 Mr 5 '42

Australian frontier. E. Hill. 332p $3.50 Doubleday '42

Australia's war effort. H. Gepp. Mech Eng 64:309-12 Ap '42

Introducing Australia. C. H. Grattan. 331p bibliog(p317-23) $3 Day '42

Meet the Anzacs! W. L. Holland and P. E. Lilienthal. 48p bibliog(p48) pa 10c Inst. of Pacific relations, 129 E. 52d st, New York '42

See also

Banks and banking—Australia
Chemical industries—Australia
Electric apparatus industry—Australia
Gold mines and mining—Australia
Labor laws and legislation—Australia
Railroads—Australia
Steel industry and trade—Australia
Wool trade—Australia
World war, 1939——Australia

Bibliography

Selected list of references on Australia. G. H. Fuller, comp. 101p U. S. Lib. of Congress, Division of bibliography, Washington '42

Commerce

Character of Australia's oversea trade. For Comm W 6:31 Ap 4 '42

Council for scientific and industrial research

Council for scientific and industrial research of the Commonwealth of Australia. Science 96:54-5 Jl 17 '42

Economic conditions

Australia in 1941. Economist 142:sup9 Mr 14 '42

Economic policy

Australian economy at war; rationing of production, trade, money and credit. G. Wood. Trusts & Estates 74:239-41 Mr '42

Economic control plan in Australia. Trusts & Estates 74:133, 234 F-Mr '42

Extensions of economic controls. For Comm W 6:8 Mr 7 '42

Wartime price and trade controls. M. B. Dale. il For Comm W 6:8-9+ Ja 3 '42

Industries and resources

Australia; its resources and strategic position. Index 22 no 2:34-41 [Je] '42

Production down under. T. White. Fortune 25:48+ Je '42

AUSTRALIAN national research council. See National research council of Australia

AUTHORSHIP

Craft of writing. P. Marks. 231p 50c Grosset & Dunlap, 1107 Broadway, New York '42

Magazine article writing. E. Brennecke, jr. and D. L. Clark. rev ed 486p $3.25 Macmillan '42

Writer's 1942 year book. A. M. Mathieu, ed. 112p pa 50c Writer's digest, 22 E. 12th st, Cincinnati '42

See also

Copyright

AUTOCLAVES

Cenco double wall horizontal autoclave. il R Sci Instr 13:237-8 My '42

AUTOGIROS

Autogiros against submarines; suggested use for convoy duty. A. Klemin. Sci Am 165:348 D '41

Design of rotor blades. R. H. Prewitt. diags J Aeronautical Sci 9:255-60 My '42

Review of rotating wing aircraft, 1941. A. Klemin. bibliog J Aeronautical Sci Aeronautical R Sec 9:9-11 F '42

Rotor bending moments in plane of flapping. A. Klemin, W. C. Walling and W. Wiesner. J Aeronautical Sci 9:411-18 S '42

AUTOMATIC control. See Control equipment

AUTOMATIC machinery. See Machinery, Automatic

AUTOMOBILE accessories industry

Parts given higher rating by new amendment. Automotive & Aviation Ind 87:50 S 15 '42

Parts manufacturers pool production equipment; group of 25 key companies formed at Detroit. E. L. Warner, jr. Automotive Ind 85:19+ D 1 '41

AUTOMOBILE accessories industry—*Continued*

Replacement parts schedule as authorized by WPB's new limitation order. E. L. Warner, jr. Automotive & Aviation Ind 86:17, 41-2 My 15 '42

This sales control plan keeps tabs on a line of 45,000 items; United Motors Service operates a perpetual inventory system on stocks clearing through its twenty branches. Sales Management 50:52+ Ap 20 '42

See also
Tire industry and trade
Tires, Automobile

Exhibitions

SAE engineering display. il S A E J 50:sup 43-6 F '42

Finance

How parts company prospects line up. Barron's 22:12 My 4 '42

See also
Timken-Detroit axle company

Securities

Mixed war prospects for motors, accessories and tires; position of leading stocks. Mag of Wall St 69:602-5 Mr 7 '42

Position of leading automobile, truck, auto accessory and tire stocks. Mag of Wall St 70:552-3 S 5 '42

AUTOMOBILE accidents

Accident repeaters; Detroit study of traffic accident records. Dun's R 50:36 Mr '42

Bleeding hearts, a solution to the automobile tragedy. K. M. Tirado. 335p bibliog(p323-9) $3.50 Naylor co, San Antonio '41

Britain's wartime traffic casualties. For Comm W 5:10 D 20 '41

Dimout trebles traffic death rate. Elec W News ed 118:849-50 S 12 '42

Engineers face automotive hazards; older cars increase fire chances; lack of maintenance expected in war-time will endanger traffic conditions. S. James. il Weekly Underw 146:779-81 Ap 4 '42

Insurance and the auto victim. J. Chamberlain. il Spectator (Property ed) 7:10-12+ N 27 '41

Man and the motor car. A. W. Whitney, ed. rev ed 287p $1 Nat. conservation bur, 60 John st, New York '41

Rising toll of dead in motor accidents poses problem. E. E. Gesner. Ins Field (Fire ed) 70:10-11 D 4 '41

Road accidents during two years of war. Illum Eng 37:9 Ja '42

Road accidents in war-time. H. M. Vernon. 125p bibliog(p121) pa 3s 6d W. Heffer & sons, Cambridge, Eng. '41

Six foolish drivers. A. W. Schlichenmaier. 119p $1.50 Manual arts press '41

State official guidebook for traffic safety education. 138p pa 75c Nat. conservation bur, New York '42

Street lighting aids production. D. M. Diggs. Roads & Bridges 80:54 Ap '42

Travelers' book, "The Wreckord" indicts rashness. East Underw 43:32 F 27 '42; Nat Underw 46:19 F 26 '42; Weekly Underw 146:488 F 28 '42; Safety Eng 83:32 Mr '42

War-time extravagance. D. M. Diggs. il Safety Eng 84:29-31 S '42

What accident toll showed for 1941 after careful analysis; the Wreckord. H. Barsantee. Nat Underw (Auto ins no) 46:10+ Ap 20 '42

Why we have automobile accidents. H. R. DeSilva. 394p bibliog(p375-88) $4 Wiley '42

See also
Automobile drivers
Automobile driving
Blackouts in war—Accidents
Insurance, Automobile
Insurance, Life—Automobile death claims

Statistics

Auto deaths drop 15% in 6 months. Nat Underw 46:13 Ag 6 '42; East Underw 43:27 Ag 14 '42

Automobile death toll in 1941. T. J. V. Cullen. Spectator (Property ed) 8:10-13+ S 17 '42; Same, with additional table. Spectator (Life ed) 149:4-10+ pt 2 S '42

AUTOMOBILE brakes. See Brakes, Automobile

AUTOMOBILE drivers

Crazy drivers may actually be insane; abstract. L. S. Selling. Sci Am 165:334 D '41

How old should they be before they take the car? B. R. Alston. Weekly Underw 145:416 Ag 30 '41; Same. East Underw 42:30 N 14 '41

Man and the motor car. A. W. Whitney, ed. rev ed 287p $1 Nat. conservation bur, 60 John st, New York '41

Motor vehicle license examiner. D. Wolheim. 139 l pa $1.50 Arco pub. co, New York '41

Protecting industry's centers; civilian defense drivers corps. H. J. Stack. Safety Eng 84:34 S '42

What of group-driver liability? Factory Management 100:87 S '42

Youthful motorist problem studied as compulsory threat. H. S. Moser. Nat Underw 45:19+ N 13 '41

Testing

Report on auto crash study; N.Y. University investigation. Nat Underw 45:25+ N 13 '41

AUTOMOBILE driving

Common-sense driving and pedestrian rules, with rules for bicycle riders. D. H. Jackson. 2d ed 197p $1.65 Dennis productions, Los Angeles '41

Driver manual. 32p pa 50c Am. assn. of motor vehicle administrators, 839 Woodward bldg., Washington, D.C. '41

Passing practices on rural highways; abstract. C. W. Prisk. Roads & Bridges 80:94 Mr '42

Psychology in highway design. S. M. Spears. W Soc E J 46:275-87 D '41

Reducing automobile driving hazards; reviewing National safety council's report and recommendations on winter driving. Consumers' Research Bul 9:15-17+ N '41

Six foolish drivers. A. W. Schlichenmaier. 119p $1.50 Manual arts press '41

S.S.S.; start stopping sooner. Safety Eng 83:24 F '42

We drive a half-engine car; operating car on half normal number of cylinders. V. B. Guthrie. il Nat Pet N 34:24, 26-7 S 9 '42

See also
Automobile drivers
Automobiles—Speed

AUTOMOBILE engineering

Automobile engineering. H. K. Thomas, ed. 2d ed 7v ea $3 Pitman '38-'39

Automobile engineering organization and procedure. C. R. Paton, R. F. Kohr and M. A. Forester. S A E J 50:439-43+ O '42

Facts and fallacies of stress determination. J. O. Almen. il diags S A E J 50:52-61 F '42

See also
Automobile engines
Automobiles
Brakes, Automobile

Tables, calculations, etc.

Characteristics of the volute spring. B. Sterne. il diags S A E J 50:221-40 Je '42

Chassis frames; determining torsional strength by calculation. H. Bürger. Automobile Eng 32:9-11 Ja '42

Vehicle suspensions; theory and analysis that accord with experiment. P. E. Mercier. diags Automobile Eng 32:405-10 O '42

AUTOMOBILE engineers

Automotive body engineer in aircraft. J. C. Widman. S A E J 50:209-11 Je '42

AUTOMOBILE engines

Engine trends; statistics, 1930-1941; tabulation. Automotive & Aviation Ind 86:37 Mr 15 '42

AUTOMOBILE engines—*Continued*

Gas cutoff tested; running of motors on half of their cylinders looks less promising. Business Week p40+ O 3 '42

See also

Automobiles
Carbureters
Motor bus engines
Motor truck engines

Bearings

Bearings and bearing corrosion; abstract. L. Raymond. Oil & Gas J 41:40 O 29 '42

Bearings for heavy-duty automotive engines. A. B. Willi. il diags S A E J 50:62-72 F '42

Carbon deposits

Gasoline additives. J. A. Moller. il diag Oil & Gas J 40:112-17 Mr 26 '42

Design

B.S.A. Scout; small front wheel drive chassis. diags Automobile Eng 32:176-8 My '42

Cars of the future. J. Geschelin. Automotive & Aviation Ind 87:42-4 S 15 '42

Design thirty years ago; 1912 Argyll 15 h.p. sleeve-valve-engined chassis. diags Automobile Eng 32:346 S '42

Design thirty years ago; 1912 Sphinx four-cylinder engine. diags Automobile Eng 32:136 Ap '42

Design thirty years ago; the 15 h.p. Calthorpe. diag Automobile Eng 31:426 D '41

Design thirty years ago; the 100 h.p. Benz racing engine. diag Automobile Eng 32:324 Ag '42

Design thirty years ago; 25 h.p. Sheffield Simplex. diags Automobile Eng 31:414 N '41

Gasoline additives. J. A. Moller. il diag Oil & Gas J 40:82-4+ Mr 26 '42

Hillman Minx. il diags Automobile Eng 31:395-7 N '41

1942 car design trends. T. A. Bissell. il S A E J 49:466-70 N '41; Same. Automobile Eng 32:66-71 F '42

1½-litre Riley. il diags Automobile Eng 32:339-41 S '42

Sixteen years' progress in engine design; tabulation. Automotive & Aviation Ind 86:87 Mr 15 '42

Vauxhall ten and twelve. diags Automobile Eng 32:83-6 Mr '42

Detonation

Effect of altitude on knock rating in CFR engines. D. B. Brooks. bibliog J Research Nat Bur Stand 28:713-34 Je '42

Engine knock; caused by shock wave and secondary flame. F. Dreyhaupt. Automobile Eng 32:414 O '42

Engine knock; observations on the emission and absorption spectra. A. G. Gaydon. Automobile Eng 32:391-2 O '42

Ignition system as influenced by fuel characteristics; automatic advance curves. J. T. Fitzsimmons. S A E J 50:15-19 Ja '42

Knock rating; an acoustical method of recording engine sounds; abstract. P. Funk. Automobile Eng 32:296 Jl '42

1941 CFR road detonation tests. J. M. Campbell and others. Am Pet Inst Proc 22(3):90-6 '41; Same. S A E J 50:458-64 O '42; Excerpts. Nat Pet N 33:R381-2+ N 26 '41; Abstract. Automotive & Aviation Ind 86:36-8 F 1 '42

Efficiency

Effect of ignition timing and anti-knock quality of fuel on engine performance. C. W. Phelps, R. C. Heidner and M. L. Smitley. Nat Pet N 34:R117-18 Ap 15 '42

Is it practical to streamline for fuel economy? J. C. Zeder. diags S A E J 49:513-19 D '41; Same cond. Automobile Eng 31:343-6 O '41; Excerpts. Automotive Ind 84:631 Je 15 '41

Exhaust

Engine exhaust gases; percentage of carbon monoxide, hydrogen and methane. Oil & Gas J 40:61 N 13 '41

Fuel

Acetylene generators save Swiss cars. il Automotive & Aviation Ind 87:25+ Ag 1 '42

Automotive products; British producer gas units. For Comm W 6:18-19 F 21 '42

Cars of the future. J. Geschelin. Automotive & Aviation Ind 87:42-4 S 15 '42

Civilian gasolines likely to be cut in octane rating. W. T. Ziegenhain. Oil & Gas J 40:18-19 D 4 '41

Cooperative fuel-research motor-gasoline survey, summer 1941. E. C. Lane. tables U S Bur Mines Rep of Invest 3611:1-31 '42

Debate effect of cut in anti-knock value of fuel on car maintenance; abstracts of papers at annual meeting of Society of automotive engineers. Nat Pet N 34:R18, R20 Ja 21 '42

Fuels and lubricants sessions; SAE annual meeting. S A E J 50:sup63-5 F '42

Gas producers; outline of compulsory government tests in Australia. J. L. Campbell. il diags Automobile Eng 32:156-8 Ap '42

Ignition system as influenced by fuel characteristics; automatic advance curves. J. T. Fitzsimmons. S A E J 50:15-19 Ja '42

Lower-octane gasoline; effect on design, operation, maintenance. S A E J 50:sup 29-31 F '42; Same. Nat Pet N 34:R78-80 Mr 4 '42

Mobile gas producers for light and heavy vehicles. Gas J (Lond) 238:97 Ap 15 '42

Motor cars after the war to use 100-octane. W. W. Gary. Nat Pet N 34:20 F 18 '42

Motor fuel quality; abstract. W. M. Holaday and J. Happel. Automotive & Aviation Ind 86:36 F 1 '42

1941 CFR road detonation tests. J. M. Campbell and others. Am Pet Inst Proc 22(3):90-6 '41; Same. S A E J 50:458-64 O '42; Excerpts. Nat Pet N 33:R381-2+ N 26 '41

1941 report of the automotive survey committee. Am Pet Inst Proc 22(3):98-9 '41

Photocell-controlled dynamometer loader; motor fuel research. R. R. Proctor. il diags Instruments 15:194-5 Je '42

Precision of motor fuel testing; report from Cooperative fuel research committee. D. B. Brooks and R. B. Cleaton. S A E J 50:392-401 S '42

Propane, a substitute for butane in motor fuels. R. C. Alden, H. M. Trimble and L. A. McReynolds. bibliog Oil & Gas J 40:80-1+ Mr 26 '42

Refiner's viewpoint on motor fuel quality. W. M. Holaday and J. Happel. flow chart Nat Pet N 34:R46-7 F 4 '42

Sulfur limits in gasoline. C. D. Lowry, jr. and G. Egloff. bibliog Oil & Gas J 40:52, 54 D 11 '41

See also

Automotive fuel
Benzol (commercial benzene)
Gasoline
Motor bus engines—Fuel
Motor truck engines—Fuel

Fuel consumption

Annual mileage of passenger cars and gasoline consumption per mile; 12 years of operation. Automotive & Aviation Ind 86:75 Mr 15 '42

Car runs 88.3 miles to gallon; wins 1942 mileage marathon. L. E. Hebl. il Nat Pet N 34:30-2 O 21 '42

Gasoline consumption of some popular 1942 cars. Consumers' Research Bul 9:21-4 F '42

Half engine use saves gas, won't harm motor, Sun says. il Nat Pet N 34:4 Ag 19 '42

Making 3's of 6's; blocking out half of an automobile's cylinders effects gasoline saving of 30% to 40%. il Business Week p40 Ag 22 '42

We drive a half-engine car; operating car on half normal number of cylinders. V. B. Guthrie. il Nat Pet N 34:24, 26-7 S 9 '42

Fuel feeding

Fuel economy stepped up by mixture indicator. il Sci Am 166:90 F '42

AUTOMOBILE engines—Fuel feeding—*Cont.*

Governor design; scheme based upon charge control, evolved by the Solex co. il diags Automobile Eng 32:397-400 O '42

Use of the oscillograph for testing fuel injection. P. H. Schweitzer. il diags Automotive Ind 86:26-30 Ja 1 '42

See also
Carbureters

Ignition

Effect of ignition timing and anti-knock quality of fuel on engine performance. C. W. Phelps, R. C. Heidner and M. L. Smitley. Nat Pet N 34:R117-18 Ap 15 '42

Poor mileage; generally ignition is to blame. Sci Am 165:335-6 D '41

Pre-ignition; effects of an incandescent solid in the combustion chamber. J. D. Morgan. Automobile Eng 32:345 S '42

Ignition devices

Checking auto breaker-points by electronics. G. V. Eltgroth. il diags Electronics 15:34-6 Ap '42

High-speed compression molding; ignition systems of military cars. H. Chase. il Am Mach 86:154-6 Mr 5 '42

Ignition system as influenced by fuel characteristics; automatic advance curves. J. T. Fitzsimmons. S A E J 50:15-19 Ja '42; Abstract. Automotive Ind 84:627-8 Je 15 '41

Modern ignition simply explained; a simply-written handy book on modern ignition systems. H. H. U. Cross. 2d ed rev 144p 5s Technical press, London '40

Lubrication

Changes occurring in oils and engines from use. F. A. Suess and others. S A E J 50: 196-208 My '42; Abstract. Nat Pet N 33: R351-2 O 29 '41

Changing concepts of petroleum lubricants. J. W. Poole. bibliog Pet Eng 13:140-5 My '42

Correlation of lube tests. Nat Pet N 34:26 O 28 '42

Durability of gears; abstracts. H. D. Mansion. Engineer 173:522-4 Je 19 '42; Automobile Eng 32:351-6 S '42

Engineering liaison and production control. D. U. Kudlich. il diag S A E J 50:173-4 My '42

Examination of used engine crankcase oil; abstract. L. L. Davis. Nat Pet N 34:R88+ Mr 18 '42

Fuels and lubricants sessions; SAE annual meeting. S A E J 50:sup63-5 F '42

Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

Piston lubrication; abstract. R. Poppinge. Automobile Eng 32:324 Ag '42

Standard method is proposed for testing crankcase oils for varnish deposits. Nat Pet N 34 pt 2:R324, R326+ S 30 '42

Testing of heavy-duty motor oils. H. C. Mougey and J. A. Moller. il Am Pet Inst Proc 22(3):100-21 '41; Same cond. Nat Pet N 33:R387-8+ D 10 '41; Discussion. Am Pet Inst Proc 22(3):122-3 '41

Testing of heavy-duty motor oils. H. C. Mougey and J. A. Moller. il S A E J 50:417-37; Discussion. 437-8 O '42

See also
Oil filters, Automobile

Manufacture

Cast engine parts; Ford motor co., ltd. il Automobile Eng Extra no 31:379-82 N 6 '41

Cast-iron; future developments and possibilities in the automobile industries. il Automobile Eng 32:237-42 Je '42

Induction hardening saves copper; rocker arm shafts, automobile engines. il Iron Age 149: 37 Ja 15 '42

Problems of changing from aluminum to cast-iron pistons. W. S. James. diags S A E J 50:177-87 My '42

Radiators

Complicated soldering job performed automatically; automobile radiator, Fedders mfg. co. il Mach 48:156 Ja '42

Conveyor-powered machine; soldering automobile radiators. il Steel 110:110 Ap 13 '42

Improved packaging speeds handling and shipping of radiators; McCord mfg. co. il Steel 110:73-4 F 2 '42

Modine's automotive wind tunnel for testing radiators. A. B. Arnold. il plan Automotive Ind 85:42-5 N 15 '41

Repair

Removing cylinder heads; transparent plastic cup holds rust solvent. il Mod Plastics 19:35 Ap '42

Starting

See Automobiles—Starting

Testing

Changes occurring in oils and engines from use. F. A. Suess and others. S A E J 50: 196-208 My '42

Piston ring blow-by; some experiments on high-speed petrol engines. C. G. Williams and H. A. Young. diags Automobile Eng 32:283-8 Jl '42

Valves

Eliminating surging in helical springs. A. M. Wahl. il diags Machine Design 14:47-51+ Ap '42

Valve springs; investigations into the problems of surge and vibration. W. Marti. diags Automobile Eng 32:95-100 Mr '42

AUTOMOBILE fabrics

Auto fabric sale; WPB establishes display. Business Week p32+ Jl 25 '42

Testing

Action of accelerated fade tests on the color of woolen fabrics. J. J. Glenn. Am Dyestuff Rep 31:34-7 Ja 19 '42

AUTOMOBILE factories

See also
Automobile engines—Manufacture
Automobiles—Manufacture
Ford motor company

Employees

Chrysler impasse; work continues without wage pact. Business Week p69-70 Je 27 '42

Growth of auto unions surveyed by Twentieth century fund. Comm & Fin Chr 156: 372 Jl 30 '42

Harmony grows between management and labor; Michigan auto industry. Automotive Ind 85:62 D 1 '41

How they bargained at Ford. Business Week p92-6 D 6 '41

Panel offers solution to GM case. Automotive & Aviation Ind 87:45+ S 1 '42

Pay issue cools; equalization of tool and die wages in Detroit loses urgency. Business Week p39+ My 16 '42

Wage structure of the motor-vehicle industry. H. R. Hosea and G. E. Votava. Monthly Labor R 54:279-304, 737-59 F-Mr '42

War labor tangles. Business Week p62-3 F 28 '42

See also United automobile workers of America

Equipment

Automotive council for war production launches drive to gather in the scrap; machinery equipment, etc. to be scrapped. Automotive & Aviation Ind 86:45+ Je 15 '42

Continental completely renovizes plant for military engine production. J. Geschelin. il Automotive Ind 85:20-31+ D 1 '41

Scrap drive; disposition of dies and machinery used for 1942 and earlier models. E. L. Warner, jr. il Automotive & Aviation Ind 87:9-10+ O 15 '42

Sharing the tools; yield of surplus equipment from the auto plants falls below expectations. Business Week p26+ S 19 '42

AUTOMOBILE factories—*Continued*

Management

Automobile engineering organization and procedure. C. R. Paton, R. F. Kohr and M. A. Forester. S A E J 50:439-43+ O '42

Ready-to-go maintenance; Studebaker corporation, South Bend, Ind. V. C. Uldin. il Factory Management 100:118-20 O '42

See also
Automobile factories
—Employees

AUTOMOBILE industry and trade

Dealers convert; Chevrolet eases its franchise regulations. il Business Week p58+ O 17 '42

Droves of customers pitch in to help Lee save auto agency; Don Lee Cadillac, San Francisco. Sales Management 50:45-7 Je 15 '42

How Chevrolet is helping dealers win the battle for survival. W. E. Holler. il Sales Management 51:18-20 Jl 15 '42

Nugent's panacea; instalment selling in reverse. Business Week p67-8 Jl 18 '42

Plan to create purchasing power for the post-war market. E. M. Cope. Automotive & Aviation Ind 87:19+ S 1 '42

Retailers baffled by war problems; get little help from manufacturers; survey of new-car dealers, tire stores and appliance dealers in ten cities. P. Salisbury. il Sales Management 50:22-4 My 1 '42

Studebaker preps women for dealer mechanic training. il Ptr Ink 201:32 O 30 '42

Studebaker's bold imagination keeps hard-hit dealers going. K. B. Elliott. il Ptr Ink 201:40, 42-4 O 2 '42

Studebaker's sales department in wartime; helping dealers. Barron's 22:8-9 N 2 '42

See also
Automobile accessories industry
Automobile factories
Automobile parts
Motor bus industry
Motor truck industry
Tractor industry
also Ford motor company; General motors corporation

Advertising

General Motors tells owners how to preserve their cars. Ptr Ink 198:20 Mr 6 '42

Hour for G.M.; institutional radio program reverses an advertising trend. Business Week p57-8 My 16 '42

No advertising blackout for automotive industry. P. H. Erbes, jr. il Ptr Ink 198:15-16+ Ja 16 '42

Economic aspects

Abdication of automobile brings new challenge to merchandisers; effect on various industries. P. H. Erbes, jr. Ptr Ink 198:17, 40-1 Ja 23 '42; Abstract. Management R 31:117-18 Ap '42

Checklist of merchandising changes likely to follow rubber rationing. B. Duffy. Adv & Sell 35:27 Ap '42; Same cond. Management R 31:172-3 My '42

When Main Street walks. M. G. Rollins. Adv & Sell 35:26-8 Ap '42

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 22:16-18, 22 My '42

Estimated dollar volume of new car retail sales; tabulated by months, 1938-1941. Automotive & Aviation Ind 86:72 Mr 15 '42

1941 automobile financing higher. Comm & Fin Chr 155:857 F 26 '42

Outlook for automobile independents. Barron's 22:12 Ap 20 '42

Retail automobile receivables outstanding; revision, monthly, Jan. 1936-Sept. 1941. Survey of Cur Business 21:26 N '41

SEC issues industry reports; agricultural machinery and automobiles and other types of vehicles. Comm & Fin Chr 154:1563 D 18 '41

War producers geared for peace—the automobile companies. il Mag of Wall St 70:23-5+ Ap 18 '42

See also
Automobile industry and trade—Securities
Finance companies
also Chrysler corporation; General motors corporation

Insurance requirements

Auto dealers profits form is approved by N.A.U.A. Nat Underw 46:3+ Mr 19 '42

Munitions manufacture

All-out conversion. E. L. Warner, jr. il Automotive & Aviation Ind 86:5-7+ Mr 1 '42

All-out war production issue. il Automotive & Aviation Ind 87:49-91+ O 1 '42

April shipments of war goods by automotive industry 46% greater than in February. Comm & Fin Chr 156:190 Jl 16 '42

Auto industry expected to be fully converted for war production in 60 days. Comm & Fin Chr 155:1050 Mr 12 '42

Auto industry gives pledge to Kanzler; meeting of Automotive council for war production. Iron Age 149:78-9 Ja 29 '42

Auto industry now delivering daily to armed forces $12,000,000 in equipment. P. Garrett. Comm & Fin Chr 156:285 Jl 23 '42

Auto industry urges schedules be geared to availability of materials. Steel 111:45 O 19 '42

Auto plants near peak of conversion. Automotive & Aviation Ind 86:47+ Je 1 '42

Auto plants spurt. Business Week p24 S 19 '42

Automotive council for war production makes plans. Automotive & Aviation Ind 86:47+ F 1 '42

Automotive industry intensifies its sub-contracting in war production program. Automotive & Aviation Ind 86:36-7+ My 15 '42

Automotive industry's shipments well above peacetime civilian rate. E. L. Warner, jr. il Automotive & Aviation Ind 87:17-18+ S 1 '42

Blue print for victory. O. E. Hunt. il S A E J 50:sup 15-19 Mr '42

Buick now manufactures bomber engines. C. O. Herb. il Mach 48:160-6 Jl '42

Changing over to tanks. E. L. Warner, jr. il Automotive & Aviation Ind 86:17-18, 34-5 Ap 15 '42

Conversion is like this. Business Week p15-17 F 21 '42

Conversion of automotive industry to armaments manufacture a problem of tooling; abstract. E. A. Clark. Iron Age 150:67 O 22 '42

Conversion of motor vehicle industry to war nearing completion; shipments of motor-vehicles, parts, and accessories, 1939-1942, chart. Survey of Cur Business 22:2 O '42

Detroit: five points for the record. Fortune 25:63 Mr '42

Detroit says it with arms. il Business Week p15-16 Je 13 '42

Detroit's war load. Business Week p16-18+ Ja 17 '42

Doing more, faster, with less. D. M. Nelson. Automotive & Aviation Ind 87:17+ Jl 15 '42

Facilities available for war work; automobile dealer shops in the South. Manuf Rec 111:37 Mr '42

First official report on conversion accomplishments. E. L. Warner, jr. Automotive & Aviation Ind 86:28-9+ My 1 '42

From automobile to airplane engines; Cadillac motor car division of General motors corp. il Steel 110:84 Ap 13 '42

General Motors announces war service program. Automotive & Aviation Ind 86:46+ Ap 1 '42

General Motors hits back; public debate on Reuther plan and company's counterdemands on union. Business Week p70+ Ap 4 '42

General Motors' profit outlook. S. H. Brams. il Barron's 22:3 F 16 '42

AUTOMOBILE industry and trade—Munitions manufacture—*Continued*

How Michigan works for victory. F. H. McConnell. il map Barron's 22:11-14 My 18 '42

How we retrained 900 men every 60 days; Briggs manufacturing company, Detroit. H. J. Roesch. il Factory Management 100:95-6+ O '42

Industry that has done the impossible does it again; interviews with chief executives of automobile companies. il Mach 48:109-18 Mr '42

Influence of automotive mass production methods on the manufacture of war materials. J. Geschelin. il Automotive & Aviation Ind 87:30-5+ Jl 1 '42

Job is being done. il Automotive & Aviation Ind 86:26-7+ Je 15 '42

Keeping the record straight; change-over problems. il Automotive & Aviation Ind 86:17-19+ F 15 '42

Manufacturers plan all-out war effort. Automotive & Aviation Ind 86:44, 52 F 15 '42

Michigan leads in major war contracts. E. L. Warner, jr. Automotive & Aviation Ind 87:17, 70+ S 15 '42

Motor cars to munitions. il diags map Am Mach 86:supl-16, 549-612 Je 11 '42

Motor cars to munitions. B. Finney. il Am Mach 86:61-4 F 5 '42

Newly-created production council organizing automotive war effort. S A E J 50:sup 42-3 Ap '42

Product divisions becoming more active in industry's war effort. Iron Age 149:70, 72 F 26 '42

Production miracles resulting from aviation, automotive industries' cooperation. G. T. Christopher. Aero Digest 40:116-17 Je '42

Production of jeeps, shells, and forgings at the Willys plant. J. Geschelin. il Automotive & Aviation Ind 87:20-5+ S 15 '42

Production war is being won; automobile industry's problems are supplies of labor and materials. S. H. Brams. Barron's 22:7 Je 15 '42

Reuther of the Reuther plan. Business Week p60 Ja 17 '42

$750,000,000 in subcontracts placed by automobile companies in first month of conversion; abstract. E. Kanzler. Steel 110:21-2 F 23 '42

Solving the huge machine tool problem of conversion. E. L. Warner, jr. Automotive & Aviation Ind 86:17+ Ap 1 '42

Speeding the auto conversion; Kanzler serves notice. il Business Week p15-17 Ja 31 '42

Studebaker dealers' shops pioneer in bits and pieces output. Iron Age 150:86, 88 O 22 '42

They kept open; Studebaker dealers convert repair shops to war work. Business Week p61-2+ O 17 '42

Victory on a conveyor belt. R. W. Marks. Mech Handling 29:194-5 O '42

Visit to Detroit converts writers to enthusiasm for auto plants' conversion. E. Blair. Barron's 22:4 F 9 '42

War orders give impetus to automotive operations. Mag of Wall St 70:551-2+ S 5 '42

War producers geared for peace—the automobile companies. il Mag of Wall St 70:23-5+ Ap 18 '42

War production at Rochester div. of General Motors; electrical equipment for tanks and aircraft. il Automotive & Aviation Ind 87:30-3+ S 1 '42

War work for automobile dealers; case history of Earl North Buick company; sales building converted to sheet metal shop. C. N. Tunnell. il Am Business 12:12-13 My '42

War work for idle plants; auto part makers find jobs; metal working manufacturers committee. R. G. French. il Am Business 12:26-8 Ap '42

What an English company accomplished in converting to war production. V. Delport and J. A. Horton. Steel 111:88+ Jl 13 '42

Salesmen

Botts rides again; Cadillac motor co. disemployed salesmen as expediters. Fortune 26:22+ S '42

Packard finds jobs for its salesmen in war production plants. il Sales Management 51:65-6 Jl 1 '42

Why Studebaker has refused to scuttle its factory field force. K. B. Elliott. Sales Management 50:16-18 Ap 20 '42

Securities

Mixed war prospects for motors, accessories and tires; position of leading stocks. Mag of Wall St 69:602-5 Mr 7 '42

War orders give impetus to automotive operations; position of leading stocks. Mag of Wall St 70:551-2+ S 5 '42

Service

No cars to sell, auto industry will exploit service to the limit. il Sales Management 50:58-60 F 15 '42

Servicing services; besides training army and navy personnel in maintenance of equipment, industries send own field men to battle zones. Business Week p43 Ag 22 '42

Statistics

Automobile facts and figures. 24th ed 64p Automobile manufacturers assn, New Center bldg, Detroit '42

A.M.A. reviews 1941 auto year. Nat Pet N 34:12 Ja 7 '42

Automobile stocks and production, 1939-1941; graph. Barron's 21:1 D 8 '41

Car dealer franchises by makes, by years, 1931-1942; tabulation. Automotive & Aviation Ind 86:78 Mr 15 '42

Car dealer franchises by states, by makes and by population groups; automotive dealers, repair shops, wholesalers by states. Automotive & Aviation Ind 86:78-9 Mr 15 '42

Motor year, 1941, in review; tabulation. Automotive Ind 86:49 Ja 15 '42

New registrations; tabulated by makes, by manufacturing groups, by month, 1931-1941, by years, 1895-1941; by population groups. Automotive & Aviation Ind 86:70-4 Mr 15 '42

1941 auto production 8.3% above 1940; monthly figures, 1939-1941. Comm & Fin Chr 155:766 F 19 '42

Production record of the industry from its beginning to the end of 1941; United States and Canada; tabulations. Automotive & Aviation Ind 86:80-2 Mr 15 '42

Sales Management survey of buying power, 1942; retail sales, effective buying income and other indices of buying power, with census data on population, families, farms, owner-occupied dwellings, rental value. il maps Sales Management 50:9-268 Ap 10 '42

Shipments of motor-vehicles, parts, and accessories, 1939-1942; chart. Survey of Cur Business 22:2 O '42

Used cars

Auto men's prop; if tires hold out, used cars may be the salvation of Nation's garage men. Business Week p56-7 O 17 '42

Automobile appraisal guides; list designated by the Board of governors of the Federal reserve system. Banking 34:64-6 My '42

Names used-car guides under credit rules. Comm & Fin Chr 155:1345 Ap 2 '42

Used-car impasse. Business Week p16-18 Mr 28 '42

Used car sales; Joe Fisher used car center, Portland, Oregon. il plans Arch Rec 91:50 Mr '42

Great Britain

Annual economic review of the British engineering industry. A. M. de Neuman. Engineer 173:44 Ja 16 '42

Engineering outlook. Engineering 153:143-4 F 20 '42

Rationalization of the manufacture of garage and service equipment. For Comm W 6:20 Mr 21 '42

AUTOMOBILE industry and trade—*Continued*

Mexico

Domestic production and distribution of automotive vehicles placed under control. For Comm W 7:15 Ap 25 '42

Sweden

Motor-fuel problem in Sweden. G. Lindmark. il Engineering 153:481-3, 490 Je 19 '42
News by commodities. For Comm W 5:24 D 13 '41

Switzerland

Acetylene generators save Swiss cars. il Automotive & Aviation Ind 87:25+ Ag 1 '42

United States

Aid for auto dealers. Comm & Fin Chr 155:1712 Ap 30 '42
Aid to car dealers. Business Week p29-30+ Ag 8 '42
Auto shutdown? Business Week p19-20 D 6 '41
Auto war council points program to Kanzler's aid. S A E J 50:sup33+ F '42
Automobiles, airplanes and the postwar future for individual makes. Adv & Sell 35:44 O '42
Automotive blues. Business Week p17-18 Ja 3 '42
Automotive industry at war. A. Macauley. il Automotive & Aviation Ind 87:49-51+ O 1 '42
Automotive participation in aviation production; chart. S A E J 50:sup32 Ja '42
Autos, no. 1 conversion job. Business Week p15-16 Ja 10 '42
Autos to tanks; motor industry's latest job. Business Week p17-18 N 15 '41
Business behavior, 1919-1922. W. F. Payne. bibliog J Business 15:sup194-201 Jl-O '42
California car dealers sell ice refrigeration. Am Business 12:25 Jl '42
Car dealers tarry; changeover to other work hits many snags. il Business Week p26+ Ap 4 '42
Car dealers weep. Business Week p14-15 Ja 24 '42
Car-less dealers? A. P. Sloan, jr. Business Week p67 D 27 '41
Car-less dealers? service and parts looming as life-savers. Business Week p20+ D 6 '41
Car shortage economics. il Am Inst Banking Bul 24:12-13+ Ja '42
Cars on the skids. Business Week p64 Je 27 '42
Changing pattern of industry. il Adv & Sell 35:37, 40 Ag '42
Chrysler, GM plan huge war plants; Kanzler makes WPB automotive branch appointments. Automotive & Aviation Ind 86:45+ F 15 '42
Dealer reward; General Motors program. Business Week p79 Mr 14 '42
Dealers' life rafts; auto agencies of Denver bid for navy contract. Business Week p20 F 21 '42
Detroit in transition. W. F. Sherman. il Iron Age 149:88-93+ Ja 1 '42
From Washington ahead of the news; a denunciation of the automobile industry. Comm & Fin Chr 155:132-3 Ja 8 '42
Mirrors of motordom. A. H. Allen. Published in weekly numbers of Steel
Mirrors of motordom; review of 1941. A. H. Allen. il Steel 110:245-6, 248, 253 Ja 5 '42
New-car dilemma. Business Week p19-20 Ap 18 '42
New cars on ice; Kansas City dealers hunt for place to put 4,200 frozen autos. il Business Week p23 F 21 '42
OPA auto ceiling? OPM sets February production quotas. Business Week p17 N 29 '41
Pool recipe; rules for getting defense contracts set by Hillman. Business Week p28+ N 22 '41
Post-war automobile market. S. H. Brams. Barron's 22:7 Ja 19 '42
Rationing and the passenger car stockpile. W. B. Daub. Automotive & Aviation Ind 86:41+ Je 15 '42
Relief for dealers; pending legislation would permit RFC to purchase or make loans on autos. Business Week p50-1 Ap 25 '42
Salesman into expediter; Cadillac motor car salesman. Adv & Sell 35:102 N '42
Service plans to help automobile dealers. E. L. Warner, jr. il Automotive & Aviation Ind 86:41, 66+ F 15 '42
To convert the auto dealers; let them train workers. F. A. Carleson. Business Week p95 Mr 14 '42
Wage structure of the motor-vehicle industry. H. R. Hosea and G. E. Votava. Monthly Labor R 54:279-304, 737-59 F-Mr '42
Wanted: auto dies; Detroit wants to keep those for 1942 models. Business Week p48 Je 20 '42
What the automobile dealers are doing about it; legislative proposals to alleviate difficulties due to rationing and price ceilings. E. L. Warner, jr. Automotive & Aviation Ind 86:32+ F 1 '42
What Uncle Sam expects of the automobile industry. E. L. Warner, jr. Automotive Ind 86:17, 52+ Ja 15 '42

See also
Chrysler corporation
Ford motor company
General motors corporation

Uruguay

Favorable terms of Uruguay agreement. For Comm W 8:18 S 19 '42

AUTOMOBILE laboratories

Saving millions in Chrysler's testing laboratories. R. G. French. il Am Business 11:28-30+ N '41

AUTOMOBILE laws and regulations

See also
Automobile parking
Insurance, Automobile—Compulsory liability
Insurance, Automobile—Financial responsibility laws
Motor bus lines—Laws and regulations
Motor trucks—Laws and regulations
Motor vehicles—Inspection
Traffic regulations

Kansas

Motor vehicle laws of Kansas. W. B. Kirkpatrick, comp. 99p State highway commission, Vehicle dept, Topeka, Kan. '41

Massachusetts

Massachusetts motor vehicles; handbook with digest of legal principles and authorities. C. A. Van Arsdale. 286p $3 The author, 45 Garden st, Boston '41

New York (state)

Automobile financial responsibility law working in New York. il Spectator (Property ed) 8:10-11 O 29 '42
Court upholds terms of auto safety law. East Underw 43:34 Jl 24 '42
Nation watches operation of New York safety law; abstracts. B. A. Culloton. East Underw 43:22 My 15 '42; Nat Underw 46:18+ My 14 '42
New York law brings special problems to car renting services. Nat Underw 45:24 D 11 '41
New York motor vehicle safety-responsibility act. J. L. Roesch. Spectator (Property ed) 7:26-7 N 13 '41
New York state vehicle and traffic law with appendix. 292p New York. Dept. of taxation and finance, Bur. of motor vehicles, Albany '41
Page, Anderson seek to amend auto statute. East Underw 43:32+ F 13 '42
Safety-responsibility law in effect Jan. 1. Bus Transportation 20:561 N '41

Rhode Island

Motor vehicle laws of Rhode Island, 1941. 136p Rhode Island. Executive dept, Registry of motor vehicles, Providence '41

AUTOMOBILE laws and regulations—*Cont.*

United States

Statutes affecting liability insurance; a digest of state statutes relating to negligence actions and liability insurance coverage. 107p pa $1 Assn. of casualty and surety executives, New York '41

WPB studies mileage curb to save tires. Comm & Fin Chr 156:465 Ag 6 '42

AUTOMOBILE mechanics

Studebaker preps women for dealer mechanic training. il Ptr Ink 201:32 O 30 '42

AUTOMOBILE parking

Curb and off-street parking. C. R. McCanlis. plan Roads & Bridges 80:36+ S '42

Engineering study of the parking problem; Eno foundation for highway traffic control. Roads & Bridges 80:58 Ag '42

Four-story underground parking space in downtown San Francisco. il diags Eng N 127:714-16 N 20 '41

Kansas City bank builds parking garage. L. Fanald. il Bankers M 143:476 D '41

Los Angeles' street traffic problem; curb parking of motor vehicles. E. E. East. il Civil Eng 12:435-8 Ag '42

Parking for war workers; district parking lots or loading zones. D. McCracken and B. Burkhard. il Nat Safety N 45:24-5+ Ap '42

Parking garage under Union Square, San Francisco. il Arch Forum 75:sup14 D '41

Parking problem in the business district, with special reference to California cities. J. G. Marr. il Civil Eng 12:21-3 Ja '42

Parking space four stories down; garage under San Francisco's Union square. il Eng N 129:520-1 O 15 '42

Room for all to park; how Zenith radio corporation in Chicago took care of its parking problem. il Factory Management 100:65+ F '42

Solution to the customer parking problem; Worcester County trust company. il Burroughs Clearing House 26:7-8 D '41

Urban disintegration and the future of land investments. G. Whitnall. J Land & Pub Util Econ 17:440-51 N '41

War booms parking lot business for Seattle service stations. il Nat Pet N 34:27-8+ Mr 11 '42

Meters

Parking meters used by 347 cities. Eng N 128:795 My 7 '42

AUTOMOBILE parts

Aluminum alloys; survey of potentialities in automobile work. il diags Automobile Eng Extra no 31:357-71 N 6 '41

Auto-part puzzle; building two-year stockpile of replacement items. Business Week p22+ F 7 '42

Auto parts in jam; price regulation 136. Business Week p74+ My 23 '42

Boxed for war; replacement auto parts for global military service present unprecedented packaging problem. Business Week p32 S 12 '42

Cars need parts. Business Week p22 Je 6 '42

Chrysler packaging system for army replacement parts. E. L. Warner, jr. il Automotive & Aviation Ind 87:42-3+ Jl 15 '42

Facts and fallacies of stress determination. J. O. Almen. il diags S A E J 50:52-61 F '42; Discussion. 49:sup28 D '41

How worn parts are rebuilt by metallizing; abstract. J. E. Wakefield. il S A E J 50: sup47 Je '42

It still takes repair parts and tires to keep cars on the road; tire manufacturers' plan. J. R. Custer. il Automotive & Aviation Ind 87:17-18+ Ag 1 '42

Metal coating of automotive parts; abstract and discussion. H. S. Ingham and J. E. Wakefield. S A E J 50:sup59+ N '42

Motorists must turn in worn-out parts for new. Comm & Fin Chr 156:273 Jl 23 '42

Parts output period extended; new order, L-158. Automotive & Aviation Ind 87:50+ Jl 15 '42

Powder metallurgy. F. C. Kelley. il diags Elec Eng 61:468-75 S '42; Same cond. Automotive Ind 85:34, 56+ D 15 '41

Powder metallurgy; rapid expansion and importance in war economy. J. Geschelin. il Automotive & Aviation Ind 86:28-31+ Je 1 '42

Reclaiming and renewal of worn automotive parts; abstract. E. W. Templin. diags Automotive & Aviation Ind 87:43+ S 1 '42

Replacement parts outlook. F. Rising. il Automotive & Aviation Ind 87:74-7+ O 1 '42

Replacement parts schedule as authorized by WPB's new limitation order. E. L. Warner, jr. Automotive & Aviation Ind 86:17, 41-2 My 15 '42

Stampings replace Chevrolet forgings. H. Chase. il diags Iron Age 148:64-5 N 20 '41

Torque-tube flanges; method developed by the Buick motor division. il Mech Eng 64: 138-9 F '42

Wage structure of the motor vehicle industry. H. R. Hosea and G. E. Votava. Monthly Labor R 54:737-59 Mr '42

AUTOMOBILE racing

Tests of Gulf racing cars for future design halted by war. il Steel 111:58 S 7 '42

AUTOMOBILE research

Automobile research; report of committee of the Institution of automobile engineers. Engineer 172:254-5 O 17 '41

Crankshaft failures; investigations in research department of Institution of automobile engineers. C. G. Williams and J. S. Brown. il diags Automobile Eng 31:401-5 N '41

Valve springs; investigations into the problems of surge and vibration. W. Marti. diags Automobile Eng 32:95-100 Mr '42

See also

Automobile laboratories

AUTOMOBILE roads. See Roads, Automobile

AUTOMOBILE sales buildings

Used car sales; Joe Fisher used car center, Portland, Oregon. il plans Arch Rec 91:50 Mr '42

AUTOMOBILE service stations

Dealers' life rafts; auto agencies of Denver bid for navy contract. Business Week p20 F 21 '42

Grid system floor of record spans; service building for Chevrolet motor co. S. D. Szego. il diag Eng N 128:16-18 Ja 1 '42

Jobs for garages; pooling of shop facilities is urged upon auto dealers of Pennsylvania. Business Week p24 F 7 '42

Service plans to help automobile dealers. E. L. Warner, jr. il Automotive & Aviation Ind 86:41, 66+ F 15 '42

See also

Gasoline service stations

Lubricating service

Service stations face more competition as car dealers bid lube business. Nat Pet N 34: 32, 34+ Ja 7 '42

AUTOMOBILE shops

Jobs for garages; pooling of shop facilities is urged upon auto dealers of Pennsylvania. Business Week p24 F 7 '42

AUTOMOBILE steel. See Steel, Automobile

AUTOMOBILE testing stations

Automobile testing stations, Wilmington, and Dover, Delaware. il diag plans Arch Forum 77:71-4 Jl '42

AUTOMOBILE tires. See Tires, Automobile

AUTOMOBILE touring

See also

Tourist camps, hostels, etc.

Road guides

Oklahoma; a guide to the Sooner state. 442p bibliog(p422-6) $2.50 Univ of Oklahoma press, Norman '41

AUTOMOBILE trailers

Mobile homes; a study of trailer life. D. O. Cowgill. 127p bibliog(p119-27) pa $2 Am. council on public affairs, Washington, D.C. '41

Two tires for 5 trailers, says WPB. Arch Rec 91:24 Ap '42

Electric equipment

Trailer danger; electrically energized frames. il Elec West 88:57 Ja '42

AUTOMOBILE trailers, Commercial. See Trailers

AUTOMOBILE workers of America, United. See United automobile workers of America

AUTOMOBILES

Audels new automobile guide for mechanics, operators and servicemen. F. D. Graham. 1586p $4 Theo. Audel & co, New York '42

Automobiles of 1942; preliminary study by CR's engineers. diags Consumers' Research Bul 9:9-12+ D '41

Automotive essentials. R. F. Kuns. rev ed 436p $2.32 Bruce pub. '41

Cadillac, 1942; servicing. il Nat Pet N 33:28+ N 19 '41

Chevrolet six car and truck; construction, operation, repair. V. W. Pagé. new rev & enl ed 896p $3 Henley '42

Chrysler, 1942; servicing. il Nat Pet N 33:30, 32 D 3 '41

De Soto, 1942; servicing. il Nat Pet N 33:36-8 N 26 '41

Ford, 1942; service data. il Nat Pet N 33:34+ D 10 '41

Ford V8 cars and trucks; construction, operation, repair. V. W. Pagé. 823p $3 Henley '42

Frozen automobiles, are they potential mass transportation for war workers? Bus Transportation 21:318 Jl '42

How to save $100 a year on your car. 184p $1.25 Popular mechanics co, Chicago '41

Hudson, 1942; servicing. il Nat Pet N 33:28+ D 3 '41

Lincolns, 1942; service data. il Nat Pet N 33:38+ D 10 '41

Mercury, 1942; service data. il Nat Pet N 33:36+ D 10 '41

Motor car principles and practice. F. J. Camm, ed. 184p $1.25 S. J. Reginald Saunders, 84 Wellington st, W, Toronto '40

Nash, 1942; servicing. il Nat Pet N 33:38+ N 12 '41

Oldsmobile, 1942; servicing. il Nat Pet N 33:32+ N 26 '41

Packard, 1942; service data. il Nat Pet N 33:44-6 D 17 '41

Passenger-car sessions; S A E annual meeting. S A E J 50:sup22, sup50-2 F '42

Producer gas for motor vehicles. J. D. Cash and M. G. Cash. 168p 10s Angus and Robertson, London '40

War suggestion; let government buy idle cars. Ptr Ink 200:50 Ag 28 '42

Willys Americar, 1942; servicing. il Nat Pet N 33:32+ N 19 '41

See also

Automobile engines
Automobile industry and trade
Automobile trailers
Brakes, Automobile
Electric trucks
Garages
Motor buses
Motor cars (railroad)
Motor trucks
Motor vehicles
Tires, Automobile
Tractors

Axles

1½-litre Riley. il diags Automobile Eng 32:342-5 S '42

Bearings

Bearings; rear axle, king pin and wheel; electrical units, clutch, transmission; specifications tabulated. Automotive Ind 85:52, 54 D 15 '41

Powder metallurgy; Chevrolet bearing sleeve from sintered steel chips. H. Chase. il diags Automotive Ind 85:35+ D 15 '41

Bodies

Is it practical to streamline for fuel economy? J. C. Zeder. diags S A E J 49:513-19 D '41; Same cond. Automobile Eng 31:343-6 O '41

Passenger-car body session; SAE annual meeting. S A E J 50:sup52-3 F '42

Braking

See also

Brakes, Automobile

Bumpers

Pegler's car bumper war, misguided campaign. East Underw 43:17 O 2 '42

Care

Business automobiles, how to keep them rolling. C. E. Packer. il Am Business 12:33-5+ Mr '42

Chek-Chart's package service keeps cars rolling profitably; putting former free services into a paid-for group. R. Shaw. Sales Management 50:42-3 My 15 '42

Conserving motor vehicles during war times; Lone star gas company. W. L. Carter. Gas Age 89:46+ My 7 '42

More miles for old cars. il Am Business 12:26-7+ F '42

Servicing treatment for the preservation of motor vehicles in storage. Am Gas Assn Mo 24:283-5 Jl-Ag '42

Ten rules for prolonging the life of your car. Sales Management 50:36 F 1 '42

Tips to field men on use of cars. B. Truscott. Nat Underw 46:16 F 5 '42

Wisconsin jobber promotes anti-jitter campaign. il Nat Pet N 34:28 Ap 8 '42

Your car is made to last. H. Bishop and B. Evans. 186p $1.50 Putnam '42

Chassis

B.S.A. Scout; small front wheel drive chassis. il diags Automobile Eng 32:171-8 My '42

Chassis frames; determining torsional strength by calculation. H. Bürger. Automobile Eng 32:9-11 Ja '42

Design thirty years ago; 15 h.p. Napier cab chassis. diags Automobile Eng 32:390 Jl '42

Design thirty years ago; 1912 Argyll 15 h.p. sleeve-valve-engined chassis. diags Automobile Eng 32:346 S '42

Design thirty years ago; 1912 50 h.p. Wolseley chassis. diags Automobile Eng 32:62 F '42

Design thirty years ago; 1912 Humber 11.9 h.p. chassis. diags Automobile Eng 32:404 O '42

Design thirty years ago; 1912 Pierce-Arrow chassis. diag Automobile Eng 32:102 Mr '42

Design thirty years ago; the 18 h.p. De Dion chassis. diags Automobile Eng 32:28 Ja '42

Design thirty years ago; 12 h.p. Fafnir chassis. diag Automobile Eng 32:185 My '42

Cleaning

Automobile cleaners and polishes. C. T. Small. il Chem Ind 50:806-9 Je '42

Clutches

Automatic welding aids clutch production; Borg & Beck co. il Automotive Ind 86:30+ Ja 1 '42; Automobile Eng 32:403 O '42

Clutch hydraulically dampened. il diags Product Eng 13:374 Jl '42

Combined bearing and one-way clutch. diags Automotive & Aviation Ind 86:47 Ap 15 '42

Dry clutch plate; stages in the evolution of the Borglite cushioned type. il diags Automobile Eng 32:277-9 Jl '42

Mechanical minds for motor cars. H. E. Churchill. diags S A E J 49:357-67 S '41; Excerpt. Automobile Eng 32:187-8 My '42

Color

See also

Automobiles—Painting and finishing

AUTOMOBILES—*Continued*

Cost of operation

Can you justify saved motor vehicle time? method for evaluating time saved in terms of extra vehicle costs inherent in increased speeds. H. S. Carter. Roads & Sts 85:74, 76+ Ap '42

Gasoline consumption of some popular 1942 cars. Consumers' Research Bul 9:21-4 F '42

Design

Automobile of the future; abstract. F. Jardine. Science 96:sup 11 Jl 10 '42

Aviation will have extensive influence on postwar cars. J. P. O'Donnell. Oil & Gas J 41:17 Jl 23 '42

B.S.A. Scout; small front wheel drive chassis. il diags Automobile Eng 32:171-8 My '42

Cars of the future. J. Geschelin. il diags Automotive & Aviation Ind 87:26-9+ S 1; 42-5 S 15 '42

Hillman Minx; unitary body and chassis construction. il diags Automobile Eng 31:393-9 N '41

Is it practical to streamline for fuel economy? J. C. Zeder. diags S A E J 49:513-19 D '41; Same cond. Automobile Eng 31:343-6 O '41; Excerpts. Automotive Ind 84:631 Je 15 '41

Mirrors of motordom; automobiles after the war. A. H. Allen. Steel 110:63-4+ My 11 '42; Same. Nat Pet N 34:20+ My 20 '42

1942 car design trends. T. A. Bissell. il diags S A E J 49:465-80 N '41; Same. Automobile Eng 32:67-75, 103-8 F-Mr '42

1972 model; I'd like to drive it. T. A. Boyd. il S A E J 50:402-7 S '42

1½-litre Riley. il diags Automobile Eng 32:339-45 S '42

Post-war design. G. Roesch. Automobile Eng 32:199-204 My '42

Vauxhall ten and twelve. il diags Automobile Eng 32:83-90 Mr '42

See also

Automobile engines—Design

Automobiles—Bodies

Automobiles—Chassis

Brakes, Automobile

Electric equipment

Automotive armature winding. J. Beater. 2d ed 130p $2 Automobile digest, Cincinnati '41

Automotive electrical equipment; its operation and maintenance. W. H. Crouse. 232p $2 McGraw-Hill '42

How to conserve car batteries. il Nat Pet N 34:33-4 O 28 '42

See also

Automobiles—Lighting

Storage batteries

Equipment

Alternates adopted by Stewart-Warner; gages, fuel pumps, speedometers, tachometers, windshield wipers, etc. il Product Eng 13:228-9 Ap '42

See also

Automobile accessories industry

Automobile engines

Brakes, Automobile

Carbureters

Oil filters, Automobile

Tires, Automobile

Fenders

Wing blanks; scheme for continuous production. il diag Automobile Eng 32:350 S '42

Fires and fire protection

Cars to burn; motor vehicle fires. L. F. Maar. il Nat Safety N 46:27+ Ag '42

Setting automobile on fire is tough job, Detective bureau experiment shows. Weekly Underw 145:1342 D 13 '41

Gearing

Dimensional value of lubricants in gear design. J. O. Almen. il diags S A E J 50:373-80 S '42

Durability of gears; abstracts. H. D. Mansion. Engineer 173:522-4 Je 19 '42; Automobile Eng 32:351-6 S '42

Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

See also

Automobiles—Clutches

Automobiles—Transmission

Head lamps

See Automobiles—Lighting

History

Design thirty years ago (cont). diags Automobile Eng 31:414, 426; 32:28, 62, 102, 136, 185, 234, 290, 324, 346, 404 N '41-O '42

1972 model; I'd like to drive it. T. A. Boyd. il S A E J 50:402-7 S '42

Instrument boards

Instrument and facia layout. il Automobile Eng 31:415-17 N '41

Insurance

See Insurance, Automobile

Length of service

Annual mileage of passenger cars and gasoline consumption per mile; 12 years of operation. Automotive & Aviation Ind 86:75 Mr 15 '42

Cars in use by makes, states and year of manufacture; tabulation. Automotive & Aviation Ind 86:62-9 Mr 15 '42

Distribution of motor-vehicle registrations and tax payments by regions and population groups. R. S. Lewis and H. L. Baker. Pub Roads 22:241-4 Ja '42

Lighting

Seeing with polarized headlamps. V. Roper and K. D. Scott. bibliog Illum Eng 36:1205-13; Discussion. 1213-18 D '41

Lubrication

Dimensional value of lubricants in gear design. J. O. Almen. il diags S A E J 50:373-80 S '42

Gear lubrication problems. H. R. Wolf. il Nat Pet N 34:28-9, 32+ Ja 14 '42

Minimum list of products required for complete automotive lubrication. Nat Pet N 34:24 F 11 '42

Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

Saving automobile oil and money; with additional listings of winter oils. Consumers' Research Bul 9:21-2 Mr '42

Servicing the 1942 cars for their conservation (cont). il Nat Pet N 33:28, 32+ N 19; 32, 36-8 N 26; 28, 30, 32 D 3; 34, 36, 38+ D 10; 44-6 D 17 '41

Winter oils. Consumers' Research Bul 9:19-21 F '42

See also

Automobile engines—Lubrication

Gasoline service stations—Lubricating service

Manufacture

Automotive welding. S. M. Spice, V. Fegley and L. M. Skidmore. Welding J 20:793-6 N '41

Efficient forging technique; Buick Motor connecting rod caps and counter gear for transmission set. A. F. Macconochie. il Steel 111:76-8 Jl 27 '42

Inspection systems; methods for controlling quality on large-scale production. Automobile Eng 32:31-2 Ja '42

Robot draftsmen at work in the Martin bomber plants; photographic reproduction of engineering drawings. il Automotive & Aviation Ind 86:24-6+ Mr 1 '42

See also

Automobile engines—Manufacture

Automobile factories

Automobiles—Painting and finishing

AUTOMOBILES—*Continued*

Materials

Alloy cast-irons; Midland motor cylinder co., ltd. il diag Automobile Eng Extra no 31:383-5+ N 6 '41
Alternate materials in product design; automotive products. A. L. Boegehold. il Metals & Alloys 15:68-70 Ja '42
Aluminum alloys; survey of potentialities in automobile work. il diags Automobile Eng Extra no 31:357-71 N 6 '41
Auto trim change. Business Week p17-18 N 29 '41
Automotive design saves rubber in three places. il Product Eng 13:241-2 Ap '42
Automotive materials (cont). il Automotive Ind 85:39 D 15 '41; 86:43+ Ja 15 '42
Basic do's and don't's in applying plastic moldings. W. B. Hoey. il diags Machine Design 14:47-51 Ja '42
Cast engine parts; Ford motor co., ltd. Automobile Eng Extra no 31:379-82 N 6 '41
Cast-iron; future developments and possibilities in the automobile industries. il Automobile Eng 32:237-42 Je '42
Classifications proposed by automotive rubber committee. Rubber Age 51:60-1 Ap '42
Current use and conservation of phenol-formaldehyde plastics in automotive vehicles. S A E J 50:sup32+ F '42
Growing autos; farm crops and animals do their share. Sci Am 165:342-3 D '41
Magnesium alloys; technique of pressure die-casting. diag Automobile Eng Extra no 31:389-90 N 6 '41
New classifications for rubber compounds by joint A.S.T.M. and SAE committees. India Rubber W 106:467-9 Ag '42
Powder metallurgy. F. C. Kelley. il diags Elec Eng 61:468-75 S '42; Same cond. Automotive Ind 85:34, 56+ D 15 '41
Problems of changing from aluminum to cast-iron pistons. W. S. James. diags S A E J 50:177-87 My '42; Excerpt. Automotive & Aviation Ind 86:20 F 1 '42
Redesigns by General Motors in order to minimize the amount of strategic material used. il diags Product Eng 13:214-15 Ap '42
Reference table of alternates and substitutes; motor vehicles, military, transport, etc. H. R. Clauser, comp. Metals & Alloys 15:403 Mr '42
Rubber; recent research in the automobile industries. Automobile Eng 32:15-18 Ja '42
Silver's importance; applications and possibilities in automotive and aviation fields. W. C. Hirsch. il Automotive & Aviation Ind 86:17-19, 61 My 1 '42
SAE-WEB subcommittee reports slashes in war-vehicle tin usage. S A E J 50:sup42-3 Je '42
Synthetics; recent developments. C. P. Kidder. il Automobile Eng 31:455-8 D '41

See also
Steel, Automobile

Painting and finishing

Curing paintwork by gas heating. Automobile Eng 31:399 N '41
Paint drying, auto body repairing; utilization data sheet. L. E. Stairet. il Elec West 87:36 D '41

Parking

See Automobile parking

Patents

Current British patents. Published in monthly numbers of Automobile engineer

Performance

Rolling resistance of pneumatic tires as a factor in car economy. W. F. Billingsley and others. S A E J 50:37-9+ F '42; Same cond. Automobile Eng 32:325-6 Ag '42

Prices

Automobile appraisal guides; list designated by the Board of governors of the Federal reserve system. Banking 34:64-6 My '42

Radio equipment

Auto of future may feature 2-way radio. D. G. Roos. Comm & Fin Chr 156:1427 O 22 '42
Emergency FM-AM systems. L. Winner. il Radio N 28:6-9+ S '42
112 mc mobile coaxial antenna; car-mounted transmitting and receiving equipment. S. G. Taylor. il diags Radio N 27:20-1+ Je '42
Radio control in gas operating departments. J. P. Neill. Gas Age 89:12+ Ap 23 '42
Static electric problems in tires. J. W. Liska and E. E. Hanson. bibliog diags Ind & Eng Chem 34:618-24 My '42
Static electricity and its effect on car radio performance. S. M. Cadwell, N. E. Handel and G. L. Benson. diags News Ed 19:1139-41 O 25 '41; Abstract. Automobile Eng 32:310-12 Ag '42
WAYH on the air! short wave FM radio installation provides mobile emergency supervision and repair service for Chicago surface lines. il map Transit J 86:236-8 Jl '42
WSEL protects Blue Ridge parkway. S. R. Winters. il Radio N 26:29-30+ D '41

Rationing

Auto rationing revised. Comm & Fin Chr 156:996 S 17 '42
Auto rationing starts; OPA fixes year's quota. Comm & Fin Chr 155:956 Mr 5 '42
New passenger automobile rationing regulations; order no. 2A, effective March 2, 1942. 16p U.S. Office of price administration, Washington '42
OPA amends rules for automobile rationing. Comm & Fin Chr 155:1709 Ap 30 '42
Rationing and the passenger car stockpile. W. B. Daub. Automotive & Aviation Ind 86:41+ Je 15 '42

Renting

New York law brings special problems to car renting services. Nat Underw 45:24 D 11 '41

Repair

Automotive body and fender repairs. C. E. Packer. 2d ed 340p $3 Goodheart-Willcox co, Chicago '41
Lessons from British maintenance. Metals & Alloys 16:272 Ag '42
Motor's factory shop manual. H. F. Blanchard and others, eds. 6th ed 603p $4 Motor, 572 Madison av, New York '41
Rationalization of the manufacture of garage and service equipment. For Comm W 6:20 Mr 21 '42
Repairmen will get you if you don't watch out. R. W. Riis and J. Patric. 271p $1.95 Doubleday '42
Repairs on credit; instalment companies finance automobile overhauling. Business Week p46+ Ja 10 '42
Salvage and repair of worn and broken vehicle parts. W. G. Stevenson. Engineer 173:38-9 Ja 9 '42; Same. Engineering 153:39-40, 44 Ja 9-16 '42
We make loans for car repairs. E. G. Barcome. Bankers Mo 59:394-5 S '42

Riding qualities

See also
Automobiles—
Springs and suspension

Safety measures

See also
Automobile accidents
Automobile drivers
Motor vehicles—Inspection

Specifications

American passenger cars; tabulations. Automotive & Aviation Ind 86:118-19 Mr 15 '42

Speed

Can you justify saved motor vehicle time? method for evaluating time saved in terms of extra vehicle costs inherent in increased speeds. H. S. Carter. Roads & Sts 85:74, 76+ Ap '42

AUTOMOBILES—Speed—*Continued*

Means of recording speed automatically; Photo-Velaxometer. A. K. Branham. Roads & Bridges 80:80 Ap '42

Refiners study the effects of changed driving habits; relation of gasoline consumption to speed and to tire rationing. W. T. Ziegenhain. Oil & Gas J 40:51 F 26 '42

Results of highway-capacity studies. O. K. Normann. diags Pub Roads 23:57-81 Je '42

Springs and suspension

Characteristics of the volute spring. B. Sterne. il diags S A E J 50:221-40 Je '42

Suspension; brief notes on current schemes. diags Automobile Eng 32:357-8 S '42

Theory of vehicle suspensions. P. E. Mercier. diags J Ap Phys 13:484-95 Ag '42; Same cond. Automobile Eng 32:405-10 O '42

Torsion bar suspension. diags Automobile Eng 31:433 D '41

Starting

Engine starting speeds; comparison between American and British power units. Automobile Eng 32:336 Ag '42

Statistics

Auto story; drop for nation may have been as high as 10%. Business Week p52 Jl 25 '42

Cars in use by makes, states and year of manufacture; tabulation. Automotive & Aviation Ind 86:62-9 Mr 15 '42

Distribution of motor-vehicle registrations and tax payments by regions and population groups. R. S. Lewis and H. L. Baker. map Pub Roads 22:235-58+ Ja '42

Storage

How to place your car in storage. Consumers' Research Bul 9:19-21 My '42

New cars on ice; Kansas City dealers hunt for place to put 4,200 frozen autos. il Business Week p23 F 21 '42

Servicing treatment for the preservation of motor vehicles in storage. Am Gas Assn Mo 24:283-5 Jl-Ag '42

Stored cars need complete protection against deterioration. T. H. Stambaugh. Sci Am 167:73-4 Ag '42

Taxation

Auto tax stamp on sale. Comm & Fin Chr 155:2301 Je 18 '42

Farmer's taxes, new and old. M. W. English. 51p pa 15c Nat. highway users conference, Washington, D.C. '41

28 million pay auto tax. Comm & Fin Chr 155:947 Mr 5 '42

Theft

Auto underwriters detective bureau now 25 years old. East Underw 43:1+ F 27 '42

Kansas court takes liberal view in automobile theft case; Oklahoma court rules on meaning of theft under terms of automobile policy. East Underw 43:29 Ap 24 '42

Most famous auto thief catcher; E. J. Dillon. East Underw 42:59 D 12 '41

Transmission

Borg and Beck fluid transmission. diag Automobile Eng 32:18 Ja '42

Design thirty years ago; 1912 Lancia gear box. diag Automobile Eng 32:234 Je '42

Mechanical minds for motor cars. H. E. Churchill. diags S A E J 49:357-67 S '41; Excerpt. Automobile Eng 32:187-8 My '42

1942 car design trends. T. A. Bissell. diags S A E J 49:471-4 N '41; Same. Automobile Eng 32:72-5 F '42

1942 gear shift developments. P. M. Heldt. il diags Automotive Ind 85:32-43 D 1 '41

Semi-automatic gear box; the hydra-matic transmission used on Cadillac cars. il diags Automobile Eng 31:443-7 D '41

Trimming

Silver for cars; Studebaker has process for silver plating its bright trim. Business Week p60 Mr 28 '42

Use surveys

Car shortage economics. il Am Inst Banking Bul 24:12-13+ Ja '42

Some characteristics of motor-vehicle travel. R. H. Paddock. map Pub Roads 23:17-29 Ap '42

Where farmers and wage earners use their cars; survey by the Automobile manufacturers association. il Automotive & Aviation Ind 86:39-40, 92 F 1 '42

Wheels

Tires wear quickly if wheels are out of line. il Nat Pet N 34:24+ Mr 11 '42

Wheel balancing extends tire life up to 30%. il Nat Pet N 34:23-4 Mr 4 '42

See also

Tires, Automobile

Wrecking

Demonstrate new method for melting down automobiles; product resembling pig iron. Steel 110:70+ Ap 13 '42

Graveyards astir; WPB applies 60-day turnover rule to speed scrap collection. Business Week p51-4 O 3 '42

Junked salvage process speeds scrap production. Automotive & Aviation Ind 86:46 My 1 '42

Old auto bodies may be source of high-tin content solder; drawings showing location of solder spots proposed for auto wreckers. Iron Age 150:70, 72 Ag 6 '42

AUTOMOBILES, Employees'

And so to work; ride-sharing equalized by token system evolved in Cleveland by White Motor executive. il Business Week p46+ Je 20 '42

Car conservation plan urged for Nation; Pontiac, Mich. scheme; features staggered shifts, ride swapping. Automotive & Aviation Ind 86:48 Ap 1 '42

Car-sharing plans. Management R 31:289-91 Ag '42

Following Pontiac; cities in Michigan propose share-the-ride plans. Business Week p31 Jl 11 '42

Getting employes to cooperate in swap-ride programs. W. J. Williams. il Ind Marketing 27:25-6+ O '42

Highway transportation is a dominant factor in the war production program; Michigan state highway department investigation into role played by trucks and civilian automobiles in the carrying out of the war effort. Automotive & Aviation Ind 86:36-8 Ap 15 '42

Liability insurance and car-sharing. Nat Safety N 46:38 S '42

Management's responsibility; group riding. J. B. Eastman. Factory Management 100:80-2 S '42

Many thousands of defense workers in the West depend on their automobiles for transportation. il Nat Pet N 34:27 Mr 4 '42

One city's answer to the tire shortage, the Pontiac plan. il Am Business 12:14-16 Jl '42

Parking for war workers; district parking lots or loading zones. D. McCracken and B. Burkhard. il Nat Safety N 45:24-5+ Ap '42

Pontiac points the way; wartime traffic problems. R. G. Silbar. il Transit J 86:130-1 Ap '42

Room for all to park; how Zenith radio corporation in Chicago took care of its parking problem. il Factory Management 100:65+ F '42

Swap-ride formula as used by Kalamazoo. il Factory Management 100:84-5 S '42

Teaming workers with rides; Aircraft accessories corporation, Burbank, Calif.; colored tacks on map show home locations and transportation status. il Factory Management 100:87+ Ag '42

What about group riding? J. A. Miller. il Transit J 86:268-71 Ag '42

White Motor's share-your-car plan; employees give and receive celluloid tokens. Ptr Ink 200:49-50 Jl 24 '42

See also

Automobiles, Salesmen's

AUTOMOBILES, Industrial

Essential mileage saves tires, gas. Elec W 117:2058 Je 13 '42

Gas industry moves to reduce motor vehicle mileage and conserve equipment. Am Gas Assn Mo 24:156-8 Ap '42

How Illinois Bell Telephone cuts auto fleet maintenance costs. Sales Management 49:66+ N 15 '41

Motor vehicle operations as viewed by the accounting department. Am Gas Assn Mo 24:105-6 Mr '42

Pooling motor vehicles; discussion. S A E J 49:sup25, 33+ D '41

Utilities war-time transportation problems. J. G. Holtzclaw. Edison Elec Inst Bul 10: 233-4+ Je '42

War-time operation of a public utility automobile fleet; Boston consolidated gas co. B. D. Connor. il map Am Gas J 157:29-36 N '42

What are you doing to keep them rolling? automotive equipment maintenance. S. G. Page. Edison Elec Inst Bul 9:495-6 D '41

AUTOMOBILES, Military

British Universal carriers, part truck, part tank, part tractor. il Automotive & Aviation Ind 86:30-1 Mr 1 '42

Mechanized assembly speeds production of half trac scout cars. il Steel 110:94, 96 Mr 2 '42

Meet the jeep. J. Chamberlin. il Sci Am 166: 6-8 Ja '42

Motor vehicles of the U.S. army; illustrations. Automotive & Aviation Ind 86:55-9 Mr 15 '42

Production of jeeps, shells, and forgings at the Willys plant. J. Geschelin. il Automotive & Aviation Ind 87:20-5+ S 15 '42

Radio in the armored force. J. M. Askew. il Radio N 27:34-8+ Ja '42

Roller bearings and national defense. T. V. Buckwalter. il diags S A E J 50:23-6 Ja '42

Rollers keep reconnaissance cars out of trouble; aids travel over rough ground. il Sci Am 166:187 Ap '42

AUTOMOBILES, Municipal

Conserving municipal motor equipment and tires; abstract. Am Water Works Assn J 34:431-3 Mr '42

AUTOMOBILES, Salesmen's

Canadian sales manager tells how he met problems of gas rations. Sales Management 51:26 Jl 1 '42

Gas rationing found to have many sales benefits. Nat Underw (Life ed) 46:27-8 N 6 '42; Same abr. East Underw 43:7 N 6 '42

Gas rationing in its general effect on insurance men. Nat Underw 46:19 O 1 '42; Same. Nat Underw (Life ed) 46:4+ O 2 '42

Handling the gas rationing problem. I. Davis. East Underw 43:44 pt 2 O 9 '42

How far your salesmen can drive; pictograph. Sales Management 51:36 Jl 15 '42

How many firms are conserving autos and tires. Sales Management 50:44-5 Mr 15 '42

How one concern saves tires. Management R 31:96 Mr '42

How salesmen are fixed for cars and tires. Ptr Ink 198:20 Ja 16 '42

How to revise salesmen's travel schedules under gas rationing. R. E. Runzheimer. map Sales Management 51:18-20 O 20 '42

In those days there were no automobiles for salesmen! but territories were covered, goods were sold. A. H. Deute. il Ptr Ink 200:13-14+ Ag 21 '42

Rumford cuts 128,222 miles from sales routes; sales trend up. Sales Management 51:48+ S 1 '42

Salesmen take the rails; company policy in regard to salesmen's automobiles; abstract. Management R 31:25-6 Ja '42

32,535 miles saved! Bayuk salesmen averaged saving of 350 miles per car in March. Ptr Ink 199:47-8 Je 26 '42

Tires frozen, cars ditto, but salesmen are kept moving; experiences of 100 merchandisers in coping with rubber shortage. J. E. Pasek. il Ptr Ink 198:13-14+ Mr 20 '42

27% gas and tire saving made by changing sales routes. B. Bigelow. Ptr Ink 200:17-18 Jl 3 '42

Will salesmen be able to get priority on tires for their cars? Sales Management 50: 58-9 F 1 '42

AUTOMOBILES, Used

Rating

Used automobiles. Consumers' Research Bul 9:4-11 F '42

AUTOMOBILES and roads

Developments in curve design, speed and sight distance. C. M. Noble. diags Roads & Sts 85:25-31 Ja '42

Double-barreled economy; correction of pumping joints conserves both pavement and tires. J. W. Poulter. il Roads & Sts 85: 49-51 S '42

Driving practice and its relation to highway design; studies by U.S. Public roads administration. Roads & Bridges 80:94+ Mr '42

Psychology in highway design. S. M. Spears. W Soc E J 46:275-87 D '41

Results of highway-capacity studies. O. K. Normann. diags Pub Roads 23:57-81 Je '42

Study of stresses between tire and road. A. H. D. Markwick and H. J. H. Starks. Can Eng R & B 79:52 D '41

See also

Roads, Automobile

AUTOMOTIVE council for war production

Annual meeting, 1st, Detroit, July 10. Automotive & Aviation Ind 87:54+ Jl 15 '42

AUTOMOTIVE fuel

Acetylene as motor fuel. N. C. Jones. Chem & Ind 61:368 Ag 29 '42

Acetylene generators save Swiss cars. il Automotive & Aviation Ind 87:25+ Ag 1 '42

Alternative fuels for mechanical transport. Mech Handling 29:182-3 O '42

Alternative motor fuels. N. C. Jones. il diags Automotive & Aviation Ind 87:40-4+ Ag 1 '42

Blending to improve refinery products; road tests provide important data on motor fuel; net effect of blending with butane and *iso*-butane. R. G. Lovell. il Pet Eng 13:41+ F '42

Butane as a source of motor fuel volatility. J. W. Vaiden and J. O'Reilly. Pet Eng 13: 116, 118+ My '42

Develop synthetic motor fuels and lubes, save petroleum for planes, Congress urged; gasoline-from-coal hearing. diag Nat Pet N 34:17-18 Je 24 '42

Ersatz in the engine; motor-car users abroad resort increasingly to producer-gas equipment. N. W. Kendall. il For Comm W 8: 3-6+ Jl 18 '42

Europe's substitute motor fuels. Barron's 22:5 Ap 27 '42

Gas producer tests. M. W. Woods. diag Automobile Eng 31:418-20 N '41

Gas producers. diag Chem Age (Lond) 47: 5-8, 29-30 Jl 4-11 '42

Indigenous fuels; gaseous paraffins for transport purposes. Automobile Eng 31:413-14 N '41

Modern motor fuels. G. Egloff. il diags J Chem Educ 18:582-9 D '41; Excerpt. Nat Pet N 34:R120-2+ Ap 15 '42

Motor and other oils from rubber; Malayan rubber research institute. India Rubber W 107:202 N '42

Motor fuel consumed on farms. Nat Pet N 34:30 Je 17 '42

Motor-fuel problem in Sweden. G. Lindmark. il Engineering 153:481-3, 490 Je 19 '42

Motoring sans gasoline. C. H. Vivian. il diag Comp Air M 47:6841-5 S '42

Patents on motor fuels; abstract. Inst Pet J 28:283A-4A Jl '42

Petrol substitutes in South Africa. Engineer 174:79-80 Jl 24 '42

Power alcohol not yet feasible or necessary in United States. Sci Am 166:198-9 Ap '42

Producer gas traction in Sweden. Engineer 173:538 Je 26 '42

AUTOMOTIVE fuel—*Continued*

Sawdust as motor fuel in United Kingdom; charcoal tested. For Comm W 9:22 O 10 '42

Society of automotive engineers, Mid-west fuels and lubricants division meeting, Tulsa, Oct. 22-23. Oil & Gas J 41:16, 38-40, 44 O 29 '42

SAE national fuels and lubricants meeting, Tulsa, Oct. 23-24. S A E J 49:sup24+ D '41

Study of charcoal gas production with dry air blast; abstract. E. A. Kaye and A. F. Burstall. Engineering 154:255 S 25 '42

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. bibliog(70 references) il diags Chem & Eng N 20:649-59 My 25 '42; Same cond. Inst Pet J 28:115-32 Jl '42; Same cond. Oil & Gas J 41:32+ Ag 20 '42; Abstract. Chem Ind 50:638-9 My '42

Substitute motor fuels in Sweden. Economist 142:12 Ja 3 '42

Use of substitute motor fuels on the Continent. W. Landsberg. Engineering 153:114-15 F 6 '42

Varied gases for German motorcars; producer gas in Sweden; Switzerland's methane gas. For Comm W 8:22-3 Jl 18 '42

See also

Airplane engines—Fuel
Alcohol as fuel
Automobile engines—Fuel
Benzol (commercial benzene)
Gasoline
Liquid fuel
Motor bus engines—Fuel
Motor truck engines—Fuel
Tractors—Fuel

Patents

Patents on motor fuels. Inst Pet J 28:43A-5A Ja '42

Testing

Effect of altitude on knock rating in CFR engines. D. B. Brooks. bibliog J Research Nat Bur Stand 28:713-34 Je '42

Improved motor fuels through selective blending. C. R. Wagner and others. bibliog Am Pet Inst Proc 22(3):70-88 '41; Abstract. Nat Pet N 33:R370-2 N 26 '41; Discussion. Am Pet Inst Proc 22(3):88-9 '41

Precision of motor fuel testing; report from Cooperative fuel research committee. D. B. Brooks and R. B. Cleaton. S A E J 50:392-401 S '42

AUTOMOTIVE industries

As the record unfolds; chronological summary of war and the automotive industry. Automotive & Aviation Ind 86:45-9, 122, 124 Mr 15 '42

Molders of a better destiny. C. M. A. Stine. Aero Digest 41:120-1 O '42

News by commodities. Published in Foreign commerce weekly

Story of the past two years; chronological summary. Automotive & Aviation Ind 86: 120+ Mr 15 '42

See also

Airplane industry and trade
Automobile accessories industry
Automobile industry and trade
Motor bus industry
Motor truck industry
Tractor industry and trade
Trailers

Statistics

Automotive and aviation industries twenty-fourth annual statistical issue. Automotive & Aviation Ind 86:43-124+ Mr 15 '42

Finland

Today's situation in Finland. For Comm W 7:24 My 23 '42

Sweden

Recent motor-vehicle production in Sweden. For Comm W 7:24 My 23 '42

Sweden's automotive industry. For Comm W 8:18-19 Jl 25 '42

AUTOXIDATION. See Oxidation—Autoxidation

AVCONIT sizing. See Rayon sizing

AVIATION

Aerial navigation. T. C. Lyon. 92p Nat. aeronautics council, 37 W. 47th st, New York '42

Air navigation. E. Molloy, ed. 2v 128p; 132p ea $2.50 Chemical pub. co. '42

Air navigation; an introduction to practical navigation. W. J. D. Allan. 2d ed 80p $1.40 Pitman '41

Air navigation and meteorology. R. Duncan. 4th ed 297p $3 Goodheart-Willcox co, 2009 S. Michigan av, Chicago '41

Air navigation; based on principles and methods applicable also to sea navigation. F. G. Brown. 374p bibliog(pxviii) 32s Chapman & Hall, London '41

Air navigation outline; primary course. F. W. Keator. 96p bibliog(p92-4) $2.50 Weems system of navigation, Annapolis, Md. '41

Air navigation; some problems and their solution. M. J. Hearley. 90p $1.75 Longmans '42

Air navigation streamlined. W. J. Catlett, jr. 97p $10 Air navigation division, Powers co, Mobile, Ala. '41

Airplane remakes world geography. G. T. Renner. maps Aero Digest 41:107, 109-10+ S '42

Astrographics; or, First steps in navigation by the stars, a primer for the airman cadet. F. Debenham. 118p $2.75 Chemical pub. co. '42

Cartographic solution of great circle problems. A. J. Dilloway. diags Roy Aeronautical Soc J 46:4-31 Ja '42

Complete air navigator; covering the syllabus for the first class air navigator's licence. D. C. T. Bennett. 3d ed 372p bibliog(p348-53) $5 Pitman '41

Complete flying manual; a handbook for instructors and pupils. H. E. Hartney, comp. 123p $1.25 Nat. aeronautics council, New York '40

Coordination in aerobatics. C. C. Ferrante. diags Aero Digest 40:82+ Je '42

Elementary navigation for air training. C. B. Gyford. 48p pa 40c Longmans '41

First principles of flight. D. H. Surgeoner. 108p $1.25 Longmans '42

Flight; aerial navigation. 64p Am. technical soc, Drexel av. & 58th st, Chicago '42

Flying the figure eight. A. S. Otis. diags Aeronautical Eng R 1:29-31, 33 Jl '42

Load factors obtained on civil airplanes in acrobatic maneuvers. E. I. Ryder. bibliog diags J Aeronautical Sci 9:195-201 Ap '42

Map reading and avigation. R. M. Field and H. T. Stetson. 129p bibliog(p117) $2.50 Van Nostrand '42

Meteorology and air navigation; air pilot training. B. A. Shields. 2d ed 285p $2.25 McGraw-Hill '42

Modern flight. C. P. Clevenger. 294p $1.49 Grosset & Dunlap, New York '42

Navigation and meteorology. D. H. Surgeoner. 108p $1.25 Longmans '42

New system of celestial navigation. A. D'Auria. diags Aeronautical Eng R 1:11, 13+ O '42

Private pilot's handbook. A. G. Norwood. 258p $2.50 Pitman '42

Simplified aerial navigation by dead reckoning. J. A. McMullen. 2d ed rev 96p $2.50 Chemical pub. co. '41

Stars this January; navigational stars used in determining position. W. C. Youngclaus. map Aero Digest 40:69+ Ja '42 [cont monthly]

Technique in aerobatic maneuvers. C. C. Ferrante. Aero Digest 41:124, 127-8+ Ag '42

Technique of aircraft bubble octant observations in flight. J. H. Ingram. il Aero Digest 41:125-6 S '42

Theory of flight and aircraft engines; air pilot training. B. A. Shields. 2d ed 377p $2.75 McGraw-Hill '42

Theory of the turn. L. F. Motl. diags Aero Digest 39:210, 213-14 D '41

Transmission of light in the atmosphere with applications to aviation. H. G. Houghton. bibliog J Aeronautical Sci 9: 103-7 Ja '42

Wings; an anthology of flight. H. G. Bryden, ed. 320p $2.75 Ryerson press '42

AVIATION—*Continued*

Wings for you; a book about aviation for senior high school students. E. A. Cross. 355p bibliog(p352-5) 76c Macmillan '42

See also

Aeronautics
Air lines
Airplanes
Airports
Airships
Airways
Autogiros
Aviators
Flying boats
Gliders
Insurance, Aviation
Radio aids to aviation
Radio apparatus on aircraft
Seaplanes
Wind tunnels

Accidents

Air hazard created by foreign matter in induction system. Civil Aero J 3:7+ Ja 1 '42
Air safety; Civil aeronautics board reports on accidents. Published in monthly numbers of Civil aeronautics journal
Board makes public report on 1940 ground accidents. Civil Aero J 2:296 N 15 '41
Drop in accident rate for first half of 1941 reported. Civil Aero J 3:87+ Ap 1 '42
Houston accident accents question of plane cover. Nat Underw 46:1 Ag 27 '42
Landing accidents occur most during dual instruction. Civil Aero J 3:154 Ag 15 '42

See also

Airports—Accidents
Aviation—Bird hazards

Altitude flying

Altitude performance of oiling systems; abstract. J. Dolza. Aviation 41:106-7 Jl '42
Auditory sensitivity under conditions of anoxia; a study of speech intelligibility. C. P. Seitz and G. M. Smith. bibliog J Aeronautical Sci 9:478-80 O '42
Boeing stratochamber simulates stratosphere conditions, permits testing of equipment for high-altitude flying. Steel 110:42+ Ap 27 '42
Comfortization of military aircraft; air supply, high altitude problems. A. A. Arnhym. il diags Aero Digest 41:220, 223-4, 226+ Ag '42
Death in the stratosphere; altitude is limited not by the skill of plane designers but by the ceiling of the human body. il Fortune 25:94-6+ F '42
Douglas cold room. il Aviation 40:155 D '41
Fuel feed at high altitude. W. H. Curtis and R. R. Curtis. bibliog il diags S A E J 50:321-37 Ag '42
Harnessing the stratosphere; new units to test aircraft parts and accessories. D. Tenney. il Aviation 41:137+ O '42
High-altitude test and calibration equipment. E. Lodwig. il Instruments 15:125-6 Ap '42
Horse-power and altitude; a new formula based on experimental data; abstract. K. Tanaka and others. Automobile Eng 32:420 O '42
Martin's Mars, largest flying boat, has supercharging of air for crew. il Heat & Ven 39:42 S '42; Same. Heating-Piping 14:548 S '42
Medical problems of high altitude flight; need of improving oxygen breathing apparatus; abstract. F. V. Tavel. Roy Aeronautical Soc J 46:sup302-3 Ag '42
Physiology and high altitude flying; with particular reference to air embolism and the effects of acceleration. J. F. Fulton. bibliog Science 95:207-12 F 27 '42; Same cond. Mech Eng 64:386-8 My '42

Bird hazards

Collision with birds a hazard in air transportation; abstract. A. L. Morse. Science 95:sup 10 Mr 20 '42

Charts

Weems universal plotting sheets for navigation. Aero Digest 41:190 O '42

Clubs

Ready for defense; airport clubs can be ready rooms for civil air patrols. W. D. Strohmeier. il Aviation 41:146-7, 202+ Ja '42

Flights

Adventure was the compass. A. Heflin. 285p $2.75 Little '42
Heroes of the air. C. C. Fraser. rev ed 888p $2.50 Crowell '42
Sourdough flights. A. E. Koestler and J. G. Johnson. 2d ed 60p $1.50; pa $1 Jesse G. Johnson, Naval air station, Norfolk, Va. '41
West with the night. B. Markham. 294p $3 Houghton '42

Instrument flying

Defying ceilings; instrument landing facilities provides job for radio equipment makers. Business Week p66 Ap 25 '42
Finessing the radio range. J. A. Gianelli. diags Aero Digest 40:91-2 Je '42
Instrument flight; the bomber pilot speaks. F. S. Kramer. Instruments 15:265 Jl '42
Instrument landing systems will aid war effort. A. C. Preil. il diags Aviation 41:197, 199 Je '42
Link trainer. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub. co. '41
Pitfalls in radio orientation. R. B. Morse. diags Aero Digest 40:115-16+ My '42
Technique of flying in rough air. H. M. Cone. il Aero Digest 40:106, 109-10 Je '42
Turning out instrument pilots; Pan-American airways instructs personnel in transoceanic instrument flight. H. W. Roberts. il Aviation 41:196-7+ My '42

Medical aspects

Air crew in their element; hints for the maintenance of fitness and confidence. V. E. Henderson. 35p 50c Univ. of Toronto press, Toronto '42
Auditory sensitivity under conditions of anoxia; a study of speech intelligibility. C. P. Seitz and G. M. Smith. bibliog J Aeronautical Sci 9:478-80 O '42
Death in the stratosphere; altitude is limited not by the skill of plane designers but by the ceiling of the human body. il Fortune 25:94-6+ F '42
For tomorrow's planes; centrifuge will aid study of effect of acceleration on pilots. diag Gen Elec R 45:592 O '42
Gas exchange in the lungs at high altitudes. D. B. Dill and F. G. Hall. J Aeronautical Sci 9:220-3 Ap '42
Medical problems as they affect pilots. H. C. Hinshaw and W. M. Boothby. Civil Aero J 3:74+ Mr 15 '42
Medical problems of high altitude flight; need of improving oxygen breathing apparatus; abstract. F. V. Tavel. Roy Aeronautical Soc J 46:sup302-3 Ag '42
Physiological limitations to the performance of aircraft; abstract. C. F. Schmidt. J Aeronautical Sci 9:74-5 D '41
Physiology and high altitude flying; with particular reference to air embolism and the effects of acceleration. J. F. Fulton. bibliog Science 95:207-12 F 27 '42; Same cond. Mech Eng 64:386-8 My '42
Problems inherent in the protection of flying personnel against the temperature extremes encountered in flight. O. O. Benson, jr. and E. A. Pinson. J Aeronautical Sci 9:252-4 My '42
Prone flying has advantages for military purposes. A. Klemin. Sci Am 166:301 Je '42
Safety gets its wings. L. Silverman. il Safety Eng 84:38-40 Jl '42
Some medical problems encountered in modern air travel. J. W. Heim. J Ind Hygiene 24:109-15 My '42

Bibliography

Bibliography of aviation medicine. E. C. Hoff and J. F. Fulton. (Yale univ. School of medicine, Yale medical lib, Historical lib, publication 5) 237p $4 C. C. Thomas, Springfield, Ill. '42

Problems, exercises, etc.

Aviation mathematics. A. F. Buchan, R. Borthwick and W. R. Wadden. 136p 88c Houghton '42

AVIATION—*Continued*

Public health aspects

Live mouse found on airplane at Miami quarantine station. Pub Health Rep 57:716-17 My 8 '42

Records

Important air records. Aviation 41:90 F '42

Safety measures

C.A.B. safety bulletin discusses take-offs following forced landings. A. N. Troshkin. Civil Aero J 2:287+ N 15 '41

Proper execution of flight plan is sound insurance. Civil Aero J 3:128 Je 15 '42

Radio; a factor in aviation safety. W. E. Jackson. il diags Radio N 27:16-20, 67-9 My '42

Safe aircraft operation during spring. P. A. Gareau. Aero Digest 40:92 My '42

See also
Meteorology, Aeronautic

Transoceanic flights

Caribbean, birthplace of hurricanes, was laboratory for first oceanic flights. H. W. Peterson. S A E J 50:sup34 O '42

Turning out instrument pilots; Pan-American airways instructs personnel in transoceanic instrument flight. H. W. Roberts. il Aviation 41:196-7+ My '42

Winter flying

Meeting problems of cold weather operation. Civil Aero J 3:3+ Ja 1 '42

AVIATION corporation

Annual report. Comm & Fin Chr 155:1115-16 Mr 16 '42

AVIATION fuel. See Airplane engines—Fuel

AVIATION insurance. See Insurance, Aviation

AVIATION landing stations

Location and use of flight strips. S. S. Hanks. il Roads & Sts 85:67-8, 70+ Ap '42; Same. Roads & Bridges 80:26-7+ My '42; Abstract. Eng N 128:541 Ap 9 '42; Correction. Roads & Sts 85:48 My '42; Same. Eng N 128:839 My 21 '42

Mobile surfaces developed for emergency airports. A. Klemin. Sci Am 165:350 D '41

Status of landing facilities by states on January 1, 1942; tabulation. Civil Aero J 3:22 Ja 15 '42

See also
Airports

AVIATORS

Are you fit to be a pilot! E. L. Ray and S. Washburn, jr. 61p $1.75 W. Funk, New York '41

Aviation firsts in California. L. E. Read and G. B. Eastburn. il diag Aero Digest 40:97-8, 100, 102+ Ja '42

Certificated aircraft and pilots by states as of January 1; tabulation. Automotive & Aviation Ind 86:60 Mr 15 '42

Heroes of the air. C. Fraser. rev ed 888p $2.50 Crowell '42

How every boy can prepare for aviation service. K. Ayling. 125p 50c Garden City pub. co, Garden City, N.Y. '42

Inter-American escadrille assumes war role; strengthens ties of American republics. J. Foster, jr. il Aviation 41:213-14+ Je '42

Some brotherly advice to a new pilot. F. Smith. Aero Digest 41:94 Ag '42

See also
Civil air patrol
Women as aviators
also names of aviators, e.g. Zimmerman, Harry Johnson

Clothing

Cooling, heating used to protect flying suits; storage of wool-and-fur suits. Refrig Eng 44:321 N '42

Flight clothing being developed for Alaskan use. A. Klemin. Sci Am 166:255 My '42

Problems inherent in the protection of flying personnel against the temperature extremes encountered in flight. O. O. Benson, jr. and E. A. Pinson. J Aeronautical Sci 9:252-4 My '42

Licenses

See also
Civil air patrol

Physical examinations

Tales told by ears; oxygen saturation of an aviator's blood, which determines his efficiency, is quickly measured. A. Klemin. il Sci Am 167:86 Ag '42

Training

Air pilot training. B. A. Shields. 602p $4 McGraw-Hill '42

Air training; Canada's position. Economist 142:861-2 Je 20 '42

Aircraft flight instructor. R. Duncan. 2d ed 335p $2.50 Goodheart-Willcox co, Chicago '41

American aircraft training in the RAF; centers for preparing RAF maintenance and flying personnel to work with the American airplanes. M. C. Cave. il Aviation 41:94-5+ Jl '42

Army-navy orders utilize almost all C.P.T. facilities. Civil Aero J 3:177+ O 15 '42

Aviation cadet; Dick Hilton wins his wings at Pensacola. H. B. Lent. 175p $1.75 Macmillan '41

Bear state sets pace in training of aviation cadets. Aero Digest 40:94+ Ja '42

British Commonwealth air training plan. il Aero Digest 40:76, 79-80 My '42

British glider training. il Aviation 41:203 S '42

CAA again expands CPT. Aero Digest 41:341 Jl '42

C.A.A. in all-out education and training drive; committee to push aviation teaching in nation's schools. Civil Aero J 3:101+ Ap 15 '42

CAA training program aiding our war efforts. K. Stefan. il Aero Digest 40:63+ Mr '42

C.P.T. expanded to serve needs of Army air forces. Civil Aero J 3:85 Ap 1 '42

CPT operator gives scholarships. Aviation 41:239 S '42

Construction of an airport for a college training program. A. R. Hollett. plan Pub Works 72:28, 30+ D '41

Cuba gives U.S. air bases. Comm & Fin Chr 156:30 Jl 2 '42

Device useful in teaching of air navigation; drawing and description. Why compass heading differs from the true heading. H. L. Bloxom. diag Civil Aero J 2:304 D 1 '41

High school boys to receive CAA pilot training. Civil Aero J 3:127 Je 15 '42

How a great air army was built; in two years Canada has become the prime source of Empire pilots. il Fortune 25:83-7+ Ap '42

Landing accidents occur most during dual instruction. Civil Aero J 3:154 Ag 15 '42

Latin American air training program stirs enthusiasm. Civil Aero J 3:47 F 15 '42

Latin-American pilot trainees pass C.A.A. tests. Civil Aero J 3:178 O 15 '42

Nation's aviation assets grow through CPT program. Civil Aero J 3:155 Ag 15 '42

Navigation flight training. W. C. Youngclaus. il Aero Digest 39:66, 69+ D '41

Operators solve problems of expanding air forces; flight department, Hawthorne school of aeronautics. W. D. Strohmeier. il Aviation 41:235-6+ S '42

Preparation for airline pilot training. W. J. White. il Aero Digest 39:54-5+ D '41

Pre-training of aviators. Science 95:sup10 Mr 13 '42

Private pilot's handbook. A. G. Norwood. 258p $2.50 Pitman '42

Proposal trims flying time for nonspin planes. Civil Aero J 2:301-2 D 1 '41

Radio ground-training program for student pilots. I. V. French. il Aero Digest 40:128+ Mr '42

Training of civilian pilots in Chile. For Comm W 6:16 Ja 17 '42

AVIATORS—Training—*Continued*

Turning out instrument pilots; Pan-American airways instructs personnel in transoceanic instrument flight. H. W. Roberts. il Aviation 41:196-7+ My '42

Wanted—2000 men as flight instructors; with directory of CAA district representatives. Aero Digest 40:256 My '42

AVIATORS, Military

American airmen and aircraft; what they think of them abroad. Iron Age 150:56-7 O 15 '42

Army, CAA issue call for glider pilot volunteers. Civil Aero J 3:125-6 Je 15 '42

Bear state sets pace in training of aviation cadets. Aero Digest 40:94+ Ja '42

C.A.A. helps army get 2,000 flying instructors. Civil Aero J 3:113+ My 15 '42

CAA training program aiding our war efforts. K. Stefan. il Aero Digest 40:63+ Mr '42

Development of our army's glider forces. D. H. Schlatter. il Aero Digest 41:101-2, 105 S '42

Final training for the real thing; bomber crews learn teamwork on Flying Fortresses. il Aviation 41:203, 205 O '42

14,000 young men trained by C.A.A. now flying in U.S. air services. R. H. Hinckley. Civil Aero J 3:47 F 15 '42

Primary flight maintenance; civilian schools under contract to train army pilots; maintenance technique at Hawthorne school of aeronautics. W. D. Strohmeier. il Aviation 41:187, 189+ My '42

AVICENNIA tomentosa

Detergent from the wood ash of avicennia tomentosa. C. D. Mell. Textile Col 63:617-18 N '41

AVIDIN

Crystalline avidin. D. Pennington, E. E. Snell and R. E. Eakin. il Am Chem Soc J 64:469 F '42

Occurrence of avidin in the oviduct and secretions of the genital tract of several species. R. Hertz and W. H. Sebrell. Science 96:257 S 11 '42

AVOCADO oil

Avocado's inning? Business Week p18 F 28 '42

AVOCADOS

Avocado's inning? Business Week p18 F 28 '42

Breather wraps for avocados. il Mod Packaging 15:56 Mr '42

Packing to preserve freshness of fruit. Dun's R 50:35-6 Mr '42

Advertising

Food advertiser's job now same as in peace; continuous advertising of California Calavos. il Ptr Ink 200:32, 37 Ag 28 '42

AVOGADRO number

Measurements of number of molecules in matter; abstract. R. T. Birge. Science 96:sup8 Jl 17 '42

AWNINGS

Metal blackout awning. il Textile World 92:107 Jl '42

AXELSON manufacturing company

Typical American free enterprise celebrates its fiftieth anniversary. il Mach 48:194-5 Ap '42

AXLES

Hydraulic press for mounting and removing axle-boxes. il Engineer 172:340-1 N 14 '41

See also
Bearings
Motor buses—Axles
also Timken-Detroit axle company

Manufacture

Clark equipment co.; new manufacturing facilities; axle and transmission divisions. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ S 1 '42

Testing

Fatigue comparison of 7-in. diameter solid and tubular axles. O. J. Horger and T. V. Buckwalter. il Am Soc T M Proc 41:682-93; Discussion. 694-5 '41

AXTON-FISHER tobacco company

Gianninis' smokes; acquire control of Axton-Fisher tobacco co. Business Week p48+ O 10 '42

AYERS, Edward Mathews, 1863-

Sketch. por Am Cer Soc J (Bul) 21:49-50 Ap 15 '42

AZELAIC acid

Oxidation of hydroxyketostearic acids in presence of alcoholic alkali. T. P. Hilditch and H. Plimmer. Chem Soc J p204-6 Mr '42

AZEOTROPY

Azeotrope of nicotine and water. D. F. Kelly, M. J. O'Connor and J. Reilly. Chem Soc J p511-13 Ag '42

Azeotropism in the system nicotine-water; separation of nicotine from related alkaloids by aqueous distillation. C. R. Smith. Ind & Eng Chem 34:251-2 F '42

Phase behavior of the acetylene-ethylene system. S. W. Churchill, W. G. Collamore and D. L. Katz. bibliog diag Oil & Gas J 41:33-4, 36+ Ag 6 '42

AZIMUTH

Azimuth indicator for flying fields; abstract. H. T. Budenbom. il diags Electronics 14:70+ D '41

Azimuth indicator for ground stations. C. Walsh. Aviation 40:124 D '41

Transferring azimuth through vertical shafts. D. H. Noy. diags Can Min J 63:559-64 S '42

AZO compounds

Azo-group as a chelating group; metallic derivatives of arylazo-oximes and of formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p823-6 D '41

Cleavage of arylazo-β-naphthylamines by alcoholic hydrochloric acid. H. H. Hodgson and C. K. Foster. Chem Soc J p755-7 N '41

Colour changes of dyeings of vat and azoic dyes by wet and dry heat. E. Kornreich. bibliog il Soc Dyers & Col J 58:177-83 S '42

AZOLESTERASE (term)

Specificity studies on enzymes hydrolyzing esters of substituted amino and nitrogen heterocyclic alcohols. D. Glick. bibliog Am Chem Soc J 64:564-7 Mr '42

AZOMETHANE

Photolysis of azomethane. C. V. Cannon and O. K. Rice. bibliog Am Chem Soc J 63:2900-5 N '41

Photolysis of azomethane in the presence of hydrogen. H. A. Taylor and R. G. Flowers. bibliog J Chem Phys 10:110-15 F '42

AZONAPHTHYLAMINE

Some reactions of the diazonium salts of certain arylazo-β-naphthylamines. H. H. Hodgson and C. K. Foster. Chem Soc J p435-7 Jl '42

AZULENE

Azulenes; synthesis of vetivazulene. R. R. Coats and J. W. Cook. Chem Soc J p559-62 S '42

Formation of an azulene on zinc-dust distillation of pyrethrosin. M. S. Schechter and H. L. Haller. bibliog Am Chem Soc J 63:3507-10 D '41

B

BABASSU nuts

Babassu is wonderful. Oil Paint & Drug Rep 141:5 F 2 '42

BABASSU oil

Babassu oil. Oil Paint & Drug Rep 140:45 N 24 '41

Babassu oil for soap making. Textile Col 64:37 Ja '42

BABASSU oil—*Continued*

Brazil discovers new uses for babassu oil. J. A. E. Orloski. il For Comm W 5:7+ D 27 '41

Brazil-U.S. sign vegetable oils pact. Oil Paint & Drug Rep 142:5+ Ag 31 '42

Oil-nut odyssey; U.S. vegetable-oils mission explores Brazil's potentialities. D. R. Crone. il map For Comm W 7:3-5+ Je 13 '42

Roads for Maranhao seen as the key to increased South American babassu production. J. B. Gordon. il Soap & San Chem 18:23-5+ Jl '42

War time problems of the soap maker. A. P. Lee. il Soap & San Chem 18:23-6+ Je '42

BABBITT metal

ASTM lists emergency babbitts and solders. Power 86:578 Ag '42

Babbitt; lead-base for tin-base. A. H. Levy. Iron Age 150:49-50 N 5 '42

Bearings for Diesel engines. A. B. Willi. il diags Mech Eng 64:439-48 Je '42

Bearings for heavy-duty automotive engines. A. B. Willi. il diags S A E J 50:62-72 F '42

Does remelting injure babbitt metal? Power 86:514-15 Jl '42

Lead-base bearing babbitt. il Transit J 86: 291 Ag '42

No more Straits tin for your bearings; how to keep machines running on dependable substitute bearing metals. A. B. Willi and others. il Power 86:318-21 My '42

Practical aspects of bearing design; basic materials. E. B. Etchells and A. F. Underwood. il diag Machine Design 14:74-7 O '42

Sleeve bearings; factors that govern their design and performance. B. Sachs. Product Eng 13:384-5 Jl '42

Tin conservation; silver in lead-base babbitts. H. W. Gillett and R. W. Dayton. Metals & Alloys 15:584-7 Ap '42; Abstract. Power 86:564-5 Ag '42

Wide tool for machining babbitt. A. Havens. il diag Am Mach 86:113 F 19 '42

BABBITTING

Babbitting of plain bearings. Paper Ind 24: 631-2 S '42

Bonding high-lead babbitt to cast iron. J. H. Shoemaker. il Power 86:729-30 O '42

Bonding low-tin bearings to iron and steel; Kolene process. il Iron Age 150:51-3 N 5 '42

How to babbitt a sleeve bearing; illustrated instructions. Power 86:203-4 Mr '42

See also
Bearings

BACH, George W. 1904-
Portrait. Nat Pet N 34:2 Jl 22 '42

BACILLUS coli

Evaluation of coliform organisms in water. F. R. Georgia. bibliog Am Water Works Assn J 34:577-83; Discussion. R. E. Noble. 583-4 Ap '42

Incidence of coliform bacteria on fresh vegetables and efficiency of lactose broth, brilliant green bile 2 per cent and formate ricinoleate broth as presumptive media for the coliform group; abstract. G. G. Slocum and W. A. Boyles. Am Water Works Assn J 34:1467-8 S '42

Research and control. N. J. Howard. Can Eng W & S 79:20+ N '41

Tests and data on disinfection of air with germicidal lamps. M. Luckiesh and L. L. Holladay. bibliog diags Gen Elec R 45: 223-31 Ap '42

BACILLUS macerans

Purification of the amylase of bacillus macerans. E. B. Tilden, M. Adams and C. S. Hudson. bibliog Am Chem Soc J 64:1432-3 Je '42

Study of the products obtained from starch by the action of the amylase of bacillus macerans. W. S. McClenahan, E. B. Tilden and C. S. Hudson. bibliog Am Chem Soc J 64:2139-44 S '42

BACK

Industrial back disabilities; a survey. W. Dougherty. diag Ind Med 11:473-5 O '42

Low back-pain; with special reference to herniated nucleus pulposus. A. E. Gordin. bibliog Ind Med 11:18-20 Ja '42

Treatment of painful backs due to myositis, fascitis, and neuritis. J. F. DePree and J. E. Nilson. bibliog Ind Med 11:118-20 Mr '42

See also
Spinal cord

BACKUS, Mrs Lulu Scott
Director of the Department of ceramics, Rochester athenaeum and mechanics institute, Rochester, N.Y. por Am Cer Soc Bul 21:61-4 My 15 '42

BACON

All-America package competition; award to Wilson & co., inc. il Mod Packaging 15: 148-9 Ap '42

Bacon curing; how electricity has mechanised the industry. il Elec R (Lond) 129:593-6 N 28 '41

Bacteriological, physical and chemical measurements on smoked and unsmoked bacon; abstract. W. H. White and others. Food Ind 14:110 N '42

Methods for investigating rancidity; abstract. W. H. White. Food Ind 13:99-100 D '41

Methods for the investigation of rancidity; their interrelation and application to bacon fat; abstract. W. H. White. Food Ind 14:106-7 S '42

Pictures of processes. Food Ind 14:60-1 Ap '42

War-time food problems; transport of bacon and shell eggs to Britain. W. H. Cook. il Can Chem & Process Ind 26:114, 116 F '42

BACTERIA

Bacterial activity and the transformation of marine sedimentary materials; abstract. C. E. Zobell. Oil & Gas J 40:58 Ap 23 '42

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41; Same cond. Gas J (Lond) 237:130, 133-4 Ja 28 '42

Basic mechanism in the biological effects of temperature, pressure and narcotics. F. H. Johnson, D. Brown and D. Marsland. Science 95:200-3 F 20 '42

Developing germ vitamin factories and the chocolate-flavored germ syrup for digesting grass, leaves and wood; abstract. G. J. Martin. Science 95:sup8+ Ap 24 '42

Growth stimulation by sulfanilamide in low concentration. C. Lamanna. bibliog Science 95:304-5 Mr 20 '42

Isolation of an aerobic sporulating lactose-fermenting organism from Philadelphia drinking water. G. M. Eisenberg. Am Water Works Assn J 34:365-6 Mr '42

Mechanism of sulfonamide action; inhibition of bacterial respiration by sulfanilamide and by its inactive isomers. O. Wyss, F. B. Strandskov and F. C. Schmelkes. Science 96:236-7 S 4 '42

Role of bacteria in corrosion; chlorination in the control of interior corrosion of pipe lines. A. H. Thomas. bibliog il Water Works & Sewerage 89:367-72 S '42; Abstract. Eng N 129:371 S 10 '42

Separation and characterization of carotenoid pigments produced from mineral oil by bacteria. H. F. Haas, L. D. Bushnell and W. J. Peterson. bibliog Science 95: 631-2 Je 19 '42

Studies of sewage purification; effective bacteria in purification by trickling filters. C. T. Butterfield and E. Wattie. bibliog diag Pub Health Rep 56:2445-64, pl 1 D 26 '41

Sulfanilamide; why the new drug is unfair to bacteria. Sci Am 166:228-9 My '42

Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

Uses of microörganisms in the production of chemical products. C. G. Dunn. il J Chem Educ 19:387-92 Ag '42

See also
Air—Bacteriology
Bacillus coli
Bacteriology
Fermentation
Iron bacteria
Lactobacillus casei
Paper making—Bacteria control
Water—Bacteriology
Zooglea ramigera

BACTERIA, Nitrifying
Bearing of recent research on the inoculation of legume crops with nodule-forming bacteria; abstract. H. G. Thornton. Chem & Ind 61:82-4; Discussion. 84 F 14 '42
Relative efficiency of strains of rhizobium trifolii as influenced by soil fertility. J. L. Roberts and F. R. Olson. Science 95:413-14 Ap 17 '42

BACTERIA, Pathogenic
Antagonistic relations of micro-organisms; abstract. S. A. Waksman. Am Water Works Assn J 34:620-2 Ap '42
Biochemical specificity of sulfanilamide and of other antibacterial agents. H. McIlwain. bibliog Science 95:509-11 My 15 '42
Microbiology and pathology. T. B. Rice and F. Coy. 397p $3 Macmillan '42
Microbiology and pathology for nurses. M. E. Morse, M. Frobisher and C. B. Rabin. 575p $3.25 Saunders '42
Pathogenic bacteria in public places. W. G. Walter and G. J. Hucker. Soap & San Chem 18:99, 101, 103, 105 F '42
Phytopathogenic bacterium fatal to laboratory animals. R. P. Elrod and A. C. Braun. Science 94:520-1 N 28 '41
Sanitation and bacteriology of public eating utensils; an investigation of public eating and drinking establishments in Providence, R. I. M. P. Horwood and P. J. Pesare. Pub Health Rep 57:33-44 Ja 9 '42

See also
Bacillus coli
Dysentery
Immunity
Infectious diseases
Pneumococci
Streptococci

BACTERIA, Pathogenic, in warfare
Bacterial warfare; abstract. L. A. Fox. Am Water Works Assn J 34:1692-3 N '42

BACTERIAL warfare. See Bacteria, Pathogenic, in warfare

BACTERICIDES. See Disinfection and disinfectants

BACTERIOLOGICAL apparatus
Bubbler pump method for quantitative estimations of bacteria in the air. S. M. Wheeler, G. E. Foley and T. D. Jones. diag Science 94:445-6 N 7 '41

See also
Petri dishes

BACTERIOLOGY
Width and origin of bacterial flagella; electron microscope studies. G. Knaysi. Science 95:406-7 Ap 17 '42

See also
Air—Bacteriology
Antigens and antibodies
Bacteria
Disinfection and disinfectants
Fermentation
Food—Bacteriology
Rubber—Bacteriology
Sewage—Bacteriology
Viruses
Water—Bacteriology

Culture mediums

Apparatus to deliver a measured amount of CO_2 for blood cultures. M. Levine and H. Siedentopf. diag Science 95:130-1 Ja 30 '42
Bacterial activity in dilute nutrient solutions. C. E. ZoBell and C. W. Grant. Science 96:189 Ag 21 '42
Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42
Incidence of coliform bacteria on fresh vegetables and efficiency of lactose broth, brilliant green bile 2 per cent and formate ricinoleate broth as presumptive media for the coliform group; abstract. G. G. Slocum and W. A. Boyles. Am Water Works Assn J 34:1467-8 S '42
Reclaiming agar for bacteriological use. A. F. Roe. Science 96:23 Jl 3 '42
Reclamation of agar; abstract. H. G. Macmorine. Water & Sewage 80:26 Mr '42
Reclamation of used agar. H. I. Thaller. diag Science 96:23-4 Jl 3 '42
Studies of the acute diarrheal diseases; new procedures in bacteriological diagnosis. A. V. Hardy, J. Watt and T. DeCapito. bibliog Pub Health Rep 57:521-4 Ap 10 '42

Laboratory methods

Bacterial densities from fermentation tube tests. H. A. Thomas, jr. bibliog Am Water Works Assn J 34:572-6 Ap '42
Concentrating filter for large water samples. B. R. Ford and M. F. Gunderson. il diags Am Water Works Assn J 34:585-8 Ap '42
Evaluation of coliform organisms in water. F. R. Georgia. bibliog Am Water Works Assn J 34:577-83; Discussion. R. E. Noble. 583-4 Ap '42
Grinder for homogenizing bacterial clumps or infected tissues. J. H. Hanks. diag Science 94:615-16 D 26 '41
Technique for the electron microscopic examination of encapsulated bacteria. E. A. Kregel and others. Science 94:592 D 19 '41
Use of dried plasma for the coagulase test. E. J. Foley. Science 95:416 Ap 17 '42

BACTERIOPHAGE
Bacteriophage and dysentery in Alexandria; abstract. A. Compton. Science 96:sup6 Jl 31 '42

BACTERIOSTASIS
Bacteriostatic agent of penicillium chrysogenum. L. D. Smith. Franklin Inst J 234:396-402 O '42

BAD debts. See Collecting of accounts

BAFFLES. See Boilers—Baffles

BAG filling machines
Conveying in cement packing plants. il diags plan Mech Handling 29:23-5 F '42

BAGASSE
Bagasse molding compounds. T. R. McElhinney. il Mod Plastics 20:64-5+ N '42
Waste liquor from bagasse soda pulp; abstract. K. Honda and Y. Nakamura. Paper Ind 24:222 My '42

BAGGAGE
Luggage. il diags Consumers' Research Bul 9:3-9 My '42

BAGS
American fibers, another material binding the Americas together. S. L. Bull. il For Comm W 6:6-7, 31-2 F 7 '42
Care of textile bags. Chem Ind 50:356+ Mr '42

See also
Burlap
Cotton bags
Paper bags

BAGS, Cotton. See Cotton bags

BAGS, Paper. See Paper bags

BAHAMA ISLANDS

Economic conditions

Situation in Bahamas, 1941. For Comm W 7:13 My 2 '42

BAHREIN island
See also Petroleum industry and trade—Bahrein island

BAILEY, Ervin George
First Percy Nicholls award is presented to E. G. Bailey. por Mech Eng 64:816 N '42

BAILEY, Liberty Hyde
In honor of Dr Liberty Hyde Bailey; palm glade on the shore of Biscayne bay, Florida, planned by Fairchild tropical garden. Science 95:116-17 Ja 30 '42

BAILEY, Vernon Orlando, 1864-1942
Sketch. H. Zahniser. Science 96:6-7 Jl 3 '42

BAIR, George Joshua, 1905-
Sketch. bibliog por Am Cer Soc Bul 21:228-9 O 15 '42

BAJPAI, Sir Girja Shankar, 1891-
Portrait. Business Week p49 Ap 25 '42

BAKELITE
Foundation of production; plastic machine tools. L. T. Bordner. il diags Mod Plastics 20:68-72 S '42
Plastic replaces cast aluminum in fan blades. il Mach 48:159 D '41
Plastics competition award to Hilco corp.; stencil duplicator. il Mod Plastics 19:72-3 N '41
Primary gaseous products of carbonisation. K. Bolton and others. Chem Soc J p252-63 Ap '42

BAKELITE—*Continued*

Sectional surface wiring system; sections made of molded phenolics. il Mod Plastics 19:35+ D '41

Synthetic adhesives for plywood and bakelite. Engineering 152:336 O 24 '41

BAKER, Frank Collins, 1867-1942

Sketch. H. J. Van Cleave. Science 95:568 Je 5 '42

BAKER, J. T., chemical company

J. T. Baker sold to Vick chemical co. Oil Paint & Drug Rep 140:4+ D 22 '41

BAKERS and bakeries

Accounting plan brings better use of trucks; standing orders and bills, etc. prepared in advance save driver-salesman's time. Am Business 12:24 O '42

Baker's gain; housewife buys pies and cakes. Business Week p50 Jl 11 '42

Bakers sentenced. Business Week p45 D 27 '41

Finished bakery product; a method of scientific control. C. H. F. Fuller. Chem & Ind 61:24-6 Ja 10 '42

Holiday dress for bakery products. il Mod Packaging 15:44-5+ F '42

Manufacturer of bakery products held not liable in action based on illness resulting therefrom. Pub Health Rep 57:959-60 Je 19 '42

Preventing spoilage by mold and bacteria. E. F. Glabe. il Food Ind 14:46-8 F '42

What bakers are doing to meet their packaging problems; abstract. G. N. Graf. Mod Packaging 15:80 My '42

See also

Bread

Cake

Employees

Union wages and hours in the baking industry, June 1, 1941. K. B. Mohn. Monthly Labor R 54:174-83 Ja '42

Equipment

Designs own machines to speed production; bakery plant of Ruth Ashbrooke co., Seattle. M. E. Bridston. il Food Ind 14:55-7 Ja '42

Freihofer baking co.; equipment for cooling bread. E. C. Pfaffhausen. il plan Heat & Ven 39:55-7 Ja '42

Improved firing cuts fuel bill 38 percent; pneumatic spreader type stoker saves at bakery plant. F. A. Westbrook. il Food Ind 14:43 Mr '42

See also

Gas ovens, Baking

Finance

Baking company earnings rise. Barron's 22:6 Ag 3 '42

General Baking's showing; earnings have fluctuated more than those of Continental. Barron's 21:6 N 24 '41

BAKERY engineers, American society of. See American society of bakery engineers

BAKING

Beating and baking properties of dried egg. E. B. Bennion, J. R. Hawthorne and E. C. Bate-Smith. Soc Chem Ind J 61:31-4 F '42

Better baking through magic eyes; photoelectric reflectometer used in testing ovens. M. Zare. Am Gas Assn Mo 23:453-4 D '41

Cereal laboratory procedures; abstracts of papers at 28th annual meeting of American association of cereal chemists, Chicago. Can Chem & Process Ind 26:365-7+ Je '42

Finished bakery product; a method of scientific control. C. H. F. Fuller. Chem & Ind 61:24-6 Ja 10 '42

Microbiology and baking. A. J. Amos. bibliog Chem & Ind 61:117-19 Mr 7 '42

Near 'ems don't count; experiments in keeping cake fresh. W. R. Van Meter. il Food Ind 14:39-40+ My '42

Phytic acid and its destruction in baking. W. J. S. Pringle and T. Moran. bibliog Soc Chem Ind J 61:108-10 Jl '42

Potential uses of emulsion from melted butter production in baking; abstract. A. Schloemer. Food Ind 14:101 My '42

Vitamin-B_1; estimation in wheatmeal and brown bread and stability of different forms of vitamin-B_1 during bread-making. E. R. Dawson and G. W. Martin. bibliog Soc Chem Ind J 61:13-18 Ja '42

See also

Bakers and bakeries

Bread

Cake

Cookies

Flour

Gas ovens, Baking

Yeasts

BAKING powder

Manufacture

Pictures of processes; how baking powder is made by Rumford chemical works. Food Ind 14:56-7 Je '42

Rating

Baking powder. Consumers' Research Bul 9:21-2 N '41

BALANCE of payments

Argentine sterling balances. Economist 143:20 Jl 4 '42

Balance of international payments. D. Tobler. Bankers M 143:500-4 D '41

Balance of international payments of the United States in 1940. H. B. Lary and P. D. Dickens. U S Bur For & Dom Com, Economic Ser 17:1-93; pa 20c Supt. of doc. '41

Eire's balance of payments. Economist 141:625-6 N 22 '41

Empire balances in London. Economist 142:14-15 Ja 3 '42

See also

Commerce

BALANCE sheets

Accounting for United States Treasury tax notes; reporting in balance-sheet of purchaser. J Account 73:160-1 F '42

Circulation principle; a proposed plan for preparation of financial statements. R. M. Swisher. Credit & Fin Management 44:19-24 Ag '42

Names wanted, a problem in terminology. J. L. Dohr. bibliog J Account 74:133-9 Ag '42

Ratios; what they tell us. F. E. Lunt. Credit & Fin Management 44:8-11+ F '42

Should the term "surplus" be eliminated? report of the subcommittee of American institute of accountants. J Account 73:451-7 My '42

Terminology of the balance-sheet. A. C. Kelley. J Account 72:510-13 D '41

Terminology of the balance sheet. G. O. May. J Account 73:35-6 Ja '42

What is an asset? J. L. Dohr. J Account 73:213-18 Mr '42

See also

Consolidated statements

Financial statements

BALANCES

Construction and operation of a magnetic balance. F. S. Wartman. diags In U S Bur Mines Bul 425:49-57 '41

Improved mercury balance volumeter. S. Speil and H. Wilson. bibliog il diag Am Cer Soc J 25:275-7 Je 1 '42

Recording automatic balance. P. Ewald. il diags Ind & Eng Chem Anal ed 14:66-7 Ja 15 '42

Report of the divisional committee on microbalances; abstract. C. J. Rodden. Can Chem & Process Ind 26:582-3 O '42

Rust weighed by supersensitive balance. il Comp Air M 47:6746 My '42

Some observations on the formation and stability of oxide films. E. A. Gulbransen. bibliog Electrochem Soc Trans 82 (preprint 19):209-21 O '42

Thin oxide films on iron; vacuum microbalance technic. E. A. Gulbransen. bibliog diags Electrochem Soc Trans 81 (preprint 15):187-97 Ap '42

Use of the analytical balance. D. Roberts. il Pulp & Pa of Can 43:261-2 F '42

See also

Torsion balance

BALANCING machines

Bear manufacturing co. dynamic balancers. il Gen Elec R 45:595 O '42

Dynamic unbalance, its cause, effects and correction. G. C. Lawrie. il diags Instruments 15:363-5+ S '42

Electrical balancing machines. S. F. Philpott. il diags Elec R (Lond) 131:37-40 Jl 10 '42

Globe dynamic balancing machines. il Mach 48:170 Ja '42

Small-part rapid dynamic-balancing machine. il diag Engineering 153:25-7 Ja 9 '42

BALANCING of machinery

Balanced wheels give best work. H. J. Wills. il diags Am Mach 85:1309-11 D 24 '41

Balancing of locomotive reciprocating parts. E. S. Cox. diags Inst Mech Eng J & Proc 146:Proc 148-62, pl 1-2 F '42; Same abr. Engineering 153:36-9, 58-60 Ja 9-16 '42; Abstract. Engineer 172:458-9 D 26 '41; Discussion. Engineering 152:513-14 D 26 '41

Can locomotive hammerblow be abolished? H. N. Colam and J. D. Watson. diags Engineering 153:77-8, 136-8 Ja 23, F 13 '42; Same cond. Inst Mech Eng J & Proc 146: Proc 163-6 F '42; Excerpts. Engineer 172: 457-8 D 26 '41

Determining counter-balancing effects by rail-stress measurements. diags Engineering 154:301-4, 341-4 O 16, 30 '42

Dynamic balancing. F. L. Schwartz. diags Product Eng 13:32-4 Ja '42

Dynamic balancing as applied to transport aircraft propellers. D. Speas and J. C. Luttrell. il diags J Aeronautical Sci 9: 334-6 Jl '42

Dynamic balancing of propellers; Escher Wyss balancing device. E. Kronauer. il diags Aviation 41:119, 121+ My '42

Dynamic unbalance, its cause, effects and correction. G. C. Lawrie. il diags Instruments 15:357-9+ S '42

Inspection procedure for Diesel engines. E. R. Spencer. il diag Power Pl Eng 46:70-3 F '42; Same cond. Power 86:188-90 Mr '42

BALATA

Balata sale and use curbed by War board. Oil Paint & Drug Rep 142:5+ Ag 3 '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lúcas. il Ind & Eng Chem 34:1371-81 N '42

BALCONIES

Balconies designed to cut cooling load; Longfellow building, Washington, D.C. il diags Heating-Piping 13:754 D '41

Housing from the tenant's viewpoint; useful roofs and balconies; study by E. Coit. il Arch Rec 91:82 Ap '42

BALDNESS

Baldness, cataracts, poor teeth and sterility may result from lack of tryptophane; abstract. W. Buschke, A. A. Albanese and R. H. Follis, jr. Science 95:sup8 Ap 10 '42

BALDWIN locomotive works

Annual report. Comm & Fin Chr 155:819 F 24 '42

Baldwin locomotive bonds; interesting for income and appreciation. Comm & Fin Chr 154:1120 N 20 '41

Baldwin Locomotive dividend expected. Barron's 22:4 O 5 '42

Speculative possibilities in Baldwin 6s. Barron's 22:19-20 F 9 '42

BALING of cotton. See Cotton baling

BALKAN states

Commerce

I. G. Farben adds the Balkans to the Reich. K. Falk. il map For Comm W 9:4-9+ O 17; 8-10, 36-8 O 24 '42

BALL, Max White, 1885-

Sketch. por Explosives Eng 20:96-7 Ap '42

BALL bearings

Adequate lubrication keeps anti-friction bearings rolling. J. I. Clower. il diags Power 86:38-40 Ja '42

Ball bearing service fundamentals. Elec West 89:67 Ag '42

Better prepared by $1,600; annual saving effected by ball bearing lineshaft hangers. Rayon 23:361 Je '42

Development of ball bearing and roller bearing greases. H. M. Fraser. diags Nat Pet N 34:R22, R24, R26+ Ja 21 '42

Gage designed for sizing ball races of gun turrets. K. Strayer. il diag Mach 49:135-6 S '42

Guide for relubricating ball bearings developed by bearing engineers. Coal Age 47: 66+ My '42

Lubricants for ball bearings; data sheet. Heating-Piping 14:177-8 Mr '42; Iron Age 149:57-8 F 26 '42; Machine Design 14:82+ Mr '42; Coal Age 47:66+ My '42; Am Mach 86:681, 683 Je 25 '42

Methods for cleaning ball bearings. H. C. Park. Elec West 89:55 S '42

Perforated bearing bushings as substitutes for ball bearings. A. E. Rylander. diag Mach 49:171 S '42

Preventing ball-bearing failures. Elec West 88:111 Je; 89:59 Jl '42

Production boosters at Fleetwings; packing ball bearings with grease. P. Anderson. il diags Aviation 41:111-12 Je '42

Pump and bearing lubrication practice. V. M. Palmer and C. L. Pope. Power Pl Eng 46:72-3 Ja '42

Reclamation of ball and roller bearings; practices of various companies. Transit J 86:109-10 Mr '42

Spinning tool uses ball bearings. J. H. Burkam. diag Am Mach 86:1020 S 17 '42

Manufacture

How we doubled the output of our inspectors; Hoover ball & bearing company, Ann Arbor. D. W. Saxon. il diags Factory Management 100:85-7 N '42

BALL mills

Ball mills ahead of tube mills; Medusa portland cement co. il Rock Prod 45:34-5+ S '42

Ball-mills continue to play useful part in cement plant operations. il diag Concrete (mill sec) 50:230-1 S '42

Dispersion of pigments by ball and pebble mills. E. K. Fischer. bibliog il Ind & Eng Chem 33:1465-71 D '41

Double-step liner for ball mills. W. L. Howes. il diag Eng & Min J 143:57 Je '42

Grinding progress in Canadian gold plants. H. Hanson. Eng & Min J 143:63-4 My '42

Meeting fine-grinding requirements with the compartment mill. il diags Concrete (mill sec) 50:214-15+ Ag '42

New tool shows how to save 5700 tons of steel; Tocco process hardens slugs for ball mills. H. B. Osborne. Steel 111:121 N 2 '42

Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

See also

Pulverizers

Tube mills

BALLAST

Recent developments in tamping practices; Roadmasters and maintenance of way association committee report. Ry Age 113:527 O 3 '42

BALLAST (ships)

Switches quickly from lightweight units to heavy concrete ballast; use of slag as aggregate. il Concrete 50:16+ S '42

BALLISTIC instruments

Radio-frequency device for detecting the passage of a bullet. C. I. Bradford. il diags Inst Radio Eng Proc 29:578-83 N '41

BALLISTICS

See also

Bombs, Aerial

Projectiles

BALLOONS

Bag of smoke; the story of the first balloon. L. Anderson. 179p $2 Viking press '42

BALLOONS, Military
Balloons; factors in design of these effective defenses. A. Klemin. il Sci Am 165:348-9 D '41
Barrage balloons over land and sea. J. I. Waddington. il Aviation 41:157+ Ap '42
Stuka stoppers. il Business Week p40 O 3 '42

BALLOONS, Toy
Balloons in reading temperatures; raising thermometers to various levels, in testing gas heaters in machine shop. diags Sheet Metal Worker 33:42+ O '42

BALLS, Steel
Mass of balls replaces fluid; shock absorber patent assigned to American steel foundries. diag Machine Design 14:128+ Jl '42

BALOGHIA lucida. See Bloodwood tree

BALSA
New balsa wood reversible life raft. il Marine Eng 47:111 Ja '42

BALSAM fir
Balsam fir; use it, don't lose it. P. Spaulding, M. Westveld and J. R. Hansbrough. Pulp & Pa of Can 43:388-9 Ap '42
Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42
Recovery of Maine balsam needle oil. L. C. Jenness and J. G. L. Caulfield. 20p University press, Orono, Me. '41

BALTIC sea
Swedish oceanographic research in 1941. H. Pettersson. Science 96:156-7 Ag 14 '42

BALTIC states
Baltic countries under German rule. Economist 142:189 F 7 '42

See also
Russia—Foreign relations—Baltic states
World war, 1939—Baltic states

BALTIMORE
Baltimore, 1870-1900: studies in social history. C. B. Hirschfeld. 176p bibliog(p161-7) pa $1.50 Johns Hopkins press, Baltimore '41

Industries

Manpower control comes to life. il Business Week p17-19 O 3 '42

Rapid transit

How wartime transit problems are met in Baltimore. B. Hill. Mass Transportation 38:226-7 S '42
Meeting war demands in Baltimore. il Transit J 86:232-5 Jl '42

Sewerage

Baltimore difficulties with sludge cake disposal. Eng N 129:220 Ag 13 '42

BALTIMORE and Ohio railroad
Abandonment of operation; lines of railroad of the Reading co. and the Central railroad co. of New Jersey between Park Junction, Philadelphia and New York. Comm & Fin Chr 155:359 Ja 24 '42
Annual report, 115th. Comm & Fin Chr 155:1749-50 My 4 '42
Appropriates $22,073,408 to pay contingent interest; meets all deferred payments. Comm & Fin Chr 155:1210 Mr 23 '42
Labor-management an old story to the B & O. P. M. Wagner. Pub Util 30:441-2 S 24 '42
Railroad securities. Comm & Fin Chr 155:5 Ja 1 '42
Railroad securities; Baltimore & Ohio secured 4s, 1944. Comm & Fin Chr 155:1613 Ap 23 '42
Segregates lines into regions. Comm & Fin Chr 156:1204 O 5 '42
Summary of annual report for year 1941. Comm & Fin Chr 155:1701 Ap 30 '42; Same. Ry Age 112:876 My 2 '42

BALTIMORE stock exchange
Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

BAMBOO
Useful plant; bamboo can supply all human needs. Sci Am 166:242 My '42

BANANAS
Bananas in Dominican Republic; Canada takes Trinidad's bananas. For Comm W 7:19-20 Je 13 '42
Bananas in French West Indies. For Comm W 8:26 Jl 18 '42
Brazil's banana production and trade. For Comm W 8:25-6 Jl 11 '42
Guatemalan banana production, 1937-41. For Comm W 7:22 Ap 18 '42
Refrigeration of bananas. V. W. Ridley. Refrig Eng 43:1-4 sec 2 Ja '42
Shipments of bananas from Guatemala and Honduras; statistics. For Comm W 5:22 N 29 '41

BAND instruments. See Wind instruments

BAND spectra. See Spectrum—Band spectra

BANDAGES and bandaging
What if Washington orders you to stop making your product? American bandage corporation sells Washington on its essentiality to the war. R. Stone. il Ind Marketing 27:20-1 S '42

BANGOR and Aroostook railroad
Comparative statement of income, 1940 and 1941. Comm & Fin Chr 155:1915 My 18 '42
Purchase by RFC of bonds approved. Comm & Fin Chr 156:1686 N 9 '42

BANK accounting
Appraisal of bank properties. K. L. Hyder. Bankers Mo 58:550-1; 59:12-13+, 64, 66+ D '41-F '42
Charts that aid in expense control. A. Van Vlissingen. Burroughs Clearing House 26:14-16+ D '41
Complete bookkeeping unit avoids moving the books. il Bankers Mo 59:302-3 Jl '42
Deposit receipts replace passbooks; experience of Terminal national bank, Chicago. G. S. Morse. il Bankers Mo 58:498, 500+ N '41
Dishonored items returned the day after receipt. Bankers Mo 59:250-3+ Je '42
Distribution and bookkeeping combined and modernized. S. A. Horvath. il Bankers Mo 59:160-1+ Ap '42
Error study makes errorless bookkeepers. F. Bremer. il Bankers Mo 59:345-6 Ag '42
Every account analyzed; State bank and trust co., Evanston, Ill. L. E. Solem. Bankers Mo 58:541-3+ D '41
Importance of system in bank operation. O. B. Lovell. Bankers M 145:191-202 S '42
Is single posting here to stay? abstract. J. A. Hand. Bankers M 145:177-8 Ag '42
Machine paying routine; First national exchange bank of Roanoke, Virginia. Bankers Mo 59:404-5 S '42
Paying and posting delayed in at least two cities. R. T. Fitch, A. A. Doskey and G. J. Ruhlman. il Bankers Mo 59:347-9+ Ag '42
Photographs of checks avoid disputes and losses. E. J. D. Doll. il Bankers Mo 58:496-7+ N '41
Reserves; deductions for social security taxes as deposits. Fed Res Bul 28:532-3 Je '42
Simplified check handling learned quickly by new workers. W. O. Johnson. Bankers Mo 59:343-4 Ag '42
Speed promotes accuracy in posting machine operation. il Bankers Mo 58:545-7 D '41
Traditional technique dangerous because of changing conditions; some new procedures of the First national bank, Madison, Wisconsin. T. R. Hefty. il Bankers Mo 59:291-3+ Jl '42
Twelve jobs on one machine by panning the forms to fit the loan and discount machine. R. H. Albig. il Bankers Mo 59:14-15 Ja '42
28 banks benefit from delayed posting. Bankers Mo 59:197-9+ My '42
24 operations eliminated by revising systems. Bankers Mo 59:157-9 Ap '42; Discussion. 59:353+ Ag '42
We analyze as we prove; use of an analysis-proving machine. J. J. Durkin. Bankers Mo 59:466 O '42

See also
Bank auditing
Banks and banking—Records
Trusts and trustees—Accounting

BANK advertising

Ads that support war effort. il Banking 35: 36-8 N '42

Advertise savings now. H. Powel. Bankers M 144:90-1 Ja '42

Advertising and public relations. Published in monthly numbers of Bankers magazine

Advertising and public relations study; Missouri bankers assn. survey. Trusts & Estates 74:266 Mr '42

Bank advertising in tune with the times. il Burroughs Clearing House 26:11 Mr '42

Bank service mobilization; should there be any financial advertising in wartime? J. H. Morse. Trusts & Estates 74:479-81 My '42

Banking's drive to sell war bonds. H. V. Odle. il Burroughs Clearing House 26:26-7+ My '42

Hour for banks to lead. R. H. Wells. il Banking 34:19-21 Mr '42

How to sell bank service by direct mail. R. E. Doan. Bankers M 145:292-318 O '42 (to be cont)

How we successfully compete with other credit agencies. E. W. Rossiter. Bankers Mo 58:566-7+ D '41

I'm banking my extra pay. R. K. Meixsell. il Ptr Ink 198:24+ F 6 '42

Timely advertising campaign featuring regulation W. Burroughs Clearing House 26:7-8 Ag '42

To sell more bonds; New York city commercial banks plan for co-ordinating defense bond advertising. H. V. Odle. il Burroughs Clearing House 26:13-15+ Mr '42

Trends in wartime advertising. il Banking 35:30-1 Ag '42

Victory is our business; what the banks are doing. il Banking 34:33-40 My '42

Wartimely advertising for banks; examples. Banking 35:76-7 O '42

See also

Banks and banking—Show windows

Trust companies—Advertising

BANK auditing

Auditing the trust department. E. P. Neilan. Bankers M 145:26-8, 30-1 Jl '42

Cure for audit-fear. L. D. Meredith. Banking 35:27+ O '42

Functional trust department auditing; opportunities for constructive service by auditor. F. E. Mewborn. Trusts & Estates 74:287-91 Mr '42

Small bank's audit problem. W. F. Murray. Burroughs Clearing House 26:18-20+ Ap '42

Trends in auditing trust department. R. C. Huelsman. Trusts & Estates 74:509-10 My '42

BANK books, Depositors'

Deposit receipts replace passbooks; experience of Terminal national bank, Chicago. G. S. Morse. il Bankers Mo 58:498, 500+ N '41

BANK buildings

Air raid set-up in San Francisco. E. Burke. il Burroughs Clearing House 26:22-4+ My '42

Appraisal of bank properties. K. L. Hyder. Bankers Mo 58:550-1; 59:12-13+, 64, 66+ D '41-F '42

Artistic interior and controlled air improve service; Central trust co. of Cincinnati. il Bankers Mo 58:558, 560 D '41

Bank extension, Salem, Ore.; dramatic contrast; views, plans, and construction outline. Arch Forum 76:226-7 Ap '42

Bank of America opens a new building. il Bankers Mo 59:63-4 F '42

Big trusses for tallest Dallas building; Mercantile bank building. il diag Eng N 128: 782-4 My 7 '42

Drexel and First national exchange buildings. Comm & Fin Chr 156:1560 O 29 '42

Drive-in teller service trend expanding. il Burroughs Clearing House 26:4-5 F '42

Ideas in new banking quarters; commercial bank, Morris Plan bank, and savings and loan association. il Burroughs Clearing House 26:5-8 My '42

Impressive new Bank of America headquarters opened. il Burroughs Clearing House 26:4 Ja '42

Industrial motif distinguishes bank's new quarters; Industrial national bank in Detroit. il Burroughs Clearing House 26:10 Ja '42

National City on the alert. Bankers M 144: 258-9 Mr '42

Studies in bank modernization. J. P. Gander. il plans Burroughs Clearing House 26:20-2+ N '41

See also Building and loan association buildings

Air conditioning

Artistic interior and controlled air improve service; Central trust co. of Cincinnati. il Bankers Mo 58:558, 560 D '41

In the South, it's gas air conditioning; Canal bank and trust building, New Orleans. J. E. Kearns. il Am Gas J 156:35-6 My '42

Electric equipment

Bank of America builds for the future; electric equipment in home office building, San Francisco. il Elec West 88:54-7 My '42

Lighting

More light and better work with modern fluorescent lamps. il Bankers Mo 59:309-11 Jl '42

BANK clearings

Bank clearings. Published in monthly numbers of Dun's statistical review; summary in Dun's review

Bank clearings in 1941. Economist 142:45-6 Ja 10 '42

Bank clearings in 1941; with detailed figures for past eight years. Comm & Fin Chr 155:482-4 Ja 29 '42

Canadian bank clearings for the last eight calendar years, 1934-1941. Comm & Fin Chr 155:484 Ja 29 '42

Course of bank clearings. Published in weekly Monday numbers of Commercial & financial chronicle

Course of bank clearings; figures by city, 1940 and 1941. Comm & Fin Chr 155:279-80 Ja 17 '42

BANK credit. See Credit, Bank

BANK debits

Bank debits. Published in monthly numbers of Federal reserve bulletin

Changes in publication of statistics of bank debits; bank debits—weekly debits to demand deposit accounts, except interbank and U.S. government accounts, of weekly reporting member banks in 101 leading cities, Jan. 8, 1941-April 15, 1942. Fed Res Bul 28:450, 503 My '42

BANK defalcation. See Embezzlement

BANK deposits

All banks in the United States; deposits, exclusive of interbank deposits. Published in monthly numbers of Federal reserve bulletin

Bank trends revealed by deposit figures; year-end figures for the 100 largest commercial banks; with table. Burroughs Clearing House 26:3-5 Mr '42

Condition of all member banks, reserves and liabilities. Fed Res Bul 28:39 Ja '42 [cont monthly]

Decline in New York City bank deposits. J. H. Riddle. Comm & Fin Chr 154:1245 N 27 '41

Deposit receipts replace passbooks; experience of Terminal national bank, Chicago. G. S. Morse. il Bankers Mo 58:498, 500+ N '41

Deposits of member banks in larger and smaller centers, Oct.-Nov. 1941. Fed Res Bul 28:34 Ja '42

Diversion of bank deposits. Economist 143: sup4-6 S 19 '42

Growth in bank deposits. Fed Res Bul 28: 874-6 S '42

Law for the layman; the special deposit and the special check. M. L. Hayward. Barron's 22:9 F 16 '42

Set-off of debt. C. R. Rosenberg, jr. Burroughs Clearing House 26:38-9 Mr '42

BANK deposits—*Continued*

War is increasing bank deposit volume. J. T. Madden. Comm & Fin Chr 156:1000 S 17 '42

See also

Banks and banking—Guaranty of deposits

Savings deposits

Interest

See also

Savings deposits—Interest

Taxation

Taxation of bank deposits. map Banking 34:87 Ap '42

BANK deposits, Government

New legislation on deposits of U.S. funds. Comm & Fin Chr 156:276 Jl 23 '42

BANK deposits, Unclaimed

Unclaimed balances in Canadian banks. Burroughs Clearing House 26:45-6 My '42

BANK directors

Director meeting minutes; Oklahoma banking department requirement. Banking 34:64 Je '42

Directors and business development. J. L. Lafferty. Trusts & Estates 75:43 Jl '42

Directors know the answers; they can help banks keep posted on war production. P. D. Gesner. il Banking 34:30-1 My '42

Directors on the job. M. Wright. Banking 34:26-7 D '41

Directors protected by limitations. C. R. Rosenberg, jr. Burroughs Clearing House 26:29 Ja '42

Duty of directors. C. R. Rosenberg, jr. Burroughs Clearing House 26:29 S '42

Let your directors direct. R. H. Collier. Banking 35:40 Jl '42

Letter to bank directors from Oklahoma state banking department. Banking 34:71 Mr '42

National bank directors; duties and liabilities. Burroughs Clearing House 26:43-4 F '42

New York banks may indemnify directors. Nat Underw 45:18 N 27 '41

Telling directors. O. E. Leamon. il Banking 34:34-5 Ja '42

See also

Federal reserve banks—Directors

BANK employees

Bank employees aid defense bond sale. Comm & Fin Chr 154:1158 N 22 '41

Bank employees' retirement fund; Chicago title and trust company. P. P. Pullen. Burroughs Clearing House 26:14-16+ Je '42

Bank finds advantages in pay-by-credit plan for employees. Burroughs Clearing House 26:4-5 My '42

Bank manpower; U.S. and British experience. Banking 35:41 N '42

Bank's junior advisory board; Equitable trust company, Baltimore. J. G. Renshaw. il Burroughs Clearing House 26:22-4+ S '42

Banks must lift wages to meet living costs. Bankers M 145:157-8 Ag '42

Can banks compete with industry in employee compensation? il Bankers Mo 59:152-4+ Ap '42

Canadian banking; steps taken to meet growing personnel problem. J. Montagnes. il Burroughs Clearing House 26:28+ My '42

Careers in banking today. D. E. Simms. Banking 35:145 S '42

Cost of living bonuses. W. Powers. Banking 34:71 Ja '42

Developing the future executive. L. B. Cuyler. East Underw 42:79+ D 12 '41

Error study makes errorless bookkeepers. F. Bremer. il Bankers Mo 59:345-6 Ag '42

Feeding employees in a small bank. W. H. Kniffin. il Burroughs Clearing House 26:24-5+ Jl '42

First aid in a bank. F. J. Keeler. il Banking 35:42-3 Ag '42

Future horizons. C. C. Lincoln. Am Inst Banking Bul 24:3-4 Ja '42

Have you too many employes? Bankers M 143:544 D '41

How to find a perfect secretary; standards for secretarial technique. R. L. Cochran. il Bankers Mo 59:442-4 O '42

How's your production? industry, speed and accuracy. W. Powers. il Banking 35:28-9 Ag '42

Improved type of suggestion program; Morris plan bank of Virginia. Burroughs Clearing House 27:5-6 O '42

Investment banking; special honor roll supplement. Inv Banking 12:sup 1-64 Je '42

Maintaining a high grade staff. J. S. Brown. Banking 34:27 Mr '42

Manpower; the bank personnel situation throughout the country. Banking 35:146-53 S '42

Medical service for employees; East River savings bank. G. O. Nodyne. Bankers M 144:251-3 Mr '42

New bankers, here's to you. W. Powers. il Banking 34:19-21+ Je '42

N.Y. state bankers retirement system. Comm & Fin Chr 154:1234 N 27 '41

Old age benefits. Banking 34:41 D '41

Peoples-Pittsburgh announces profit-sharing plan. Bankers M 144:256-7 Mr '42

Personnel shortage; Washington banks. L. P. Riddle. il Burroughs Clearing House 26:11-13+ Je '42

Profit-sharing plan holds employees; Peoples-Pittsburgh trust company. Bankers Mo 59:255+ Je '42

Progress in loss prevention. H. Ervin. Banking 34:66 D '41

Public relations; no. 1 ingredient, is a capable, alert staff. G. A. Price. il Burroughs Clearing House 26:13-15+ Ag '42

Qualities called for in banking. G. F. Lenz. Bankers M 143:547 D '41

Records required by the wage-hour law. Banking 34:43 D '41

Salary adjustments to meet the increasing living costs. Bankers M 143:536-7 D '41

Should error records be kept? Bankers Mo 59:60-1+ F '42

Speed promotes accuracy in posting machine operation. il Bankers Mo 58:545-7 D '41

Supplemental pay plans by N.Y. Reserve bank and other institutions. Comm & Fin Chr 154:1230 N 27 '41

System for rating employees. il Bankers Mo 59:300-1+ Jl '42

These personnel policies hold employees. il Bankers Mo 59:304-6 Jl '42

Thrifty employees promote thrift; National bank of Bloomington. G. C. Helm. Bankers Mo 59:106 Mr '42

Time for personnel questions. W. Powers. Banking 34:32 Mr '42

Variable work week overtime tables. Burroughs Clearing House 26:6+ Ap '42

Wage and hour regulations that apply to banks. Bankers M 143:531-2 D '41

Wage-hour law applies to savings bank employes. L. M. Walling. Bankers M 144:355-6 Ap '42

War brings personnel problems. E. N. Hay. Banking 34:32+ F '42

War will increase women in banking; abstract. W. Powers. Bankers M 144:364-5 Ap '42

What it takes; appearance and personality. W. Powers. Banking 35:20-1 Jl '42

What it takes; cooperation, knowledge and adaptability. W. Powers. il Banking 35:30-1 O '42

What it takes; initiative and executive ability. W. Powers. il Banking 35:28-9 N '42

Why operating errors occur and what one bank does about it. il Bankers Mo 59:8-9 Ja '42

Woman question, etc. W. Powers. Banking 34:32 Ap '42

Training

Employee training; program of Detroit bank. Banking 34:50 My '42

Free instruction for bank employees under George-Deen act. Burroughs Clearing House 26:9-10 Ag '42

George, v.p. in charge of what have you. W. H. Kniffin. Banking 34:30-1 D '41

BANK employees—Training——*Continued*

Meeting wartime personnel needs; Citizens national trust & savings bank of Los Angeles. F. L. Beach. il Burroughs Clearing House 27:22-4+ O '42

Our sorting clerks have less to learn. L. K. Curry. il Bankers Mo 59:62+ F '42

Personnel problems. A. Van Vlissingen. il Burroughs Clearing House 26:11-14+ N '41

Simplified check handling learned quickly by new workers. W. O. Johnson. Bankers Mo 59:343-4 Ag '42

Steps in training bank personnel; Continental Illinois national bank and trust company of Chicago. F. L. King. il Burroughs Clearing House 26:16-20+ Ja '42

Training personnel in the emergency. E. J. Failor. Bankers M 144:86-7 Ja '42

BANK equipment and supplies

Another look at priorities. Banking 34:85 My '42

Appraisal of bank properties. K. L. Hyder. Bankers Mo 59:12-13+ Ja '42

Bank machines are war machines; care of equipment. C. W. Fishbaugh. Bankers M 144:504-5 Je '42

Banks and priorities. H. D. Ralph. Burroughs Clearing House 26:15-17 N '41

Banks confronted with supply shortages in Canada. Burroughs Clearing House 26:26 F '42

Bank's supply problem. H. Bratter. Banking 35:67-8+ S '42

Complete bookkeeping unit avoids moving the books. il Bankers Mo 59:302-3 Jl '42

Conservation. Banking 34:27 Ap '42

Doing more with less; headwork vs. priorities. Banking 34:32 Je '42

Ideas for avoiding waste. il Bankers Mo 59:113-14 Mr '42

Job, tools, men; problem of equipment or supplies. G. F. Berger. Banking 34:25-6 Ap '42

Service and equipment suppliers say. il Banking 35:72, 75+ S '42

Shortage of men, materials and machines. Banking 35:6-7 sec 2 Jl '42

Twenty inkwells and sixty pens; First National bank and trust co, Bridgeport, Conn. J. H. McCall. il Bankers Mo 59:83-4 F '42

See also

Bank furniture

Banks and banking—Forms, blanks, etc.

Directories

Semi-annual buyers guide and supply source. Bankers Mo 59:221-40, 513-32 My, N '42

BANK examination

Principles and purposes of bank examinations. R. Rapport. Bankers M 144:324-8 Ap '42

See also

Bank auditing

BANK examiners

Should bank examiners be drafted? Bankers M 144:254-5 Mr '42

BANK failures

Bank suspensions; number of banks suspended and deposits of suspended banks (in thousands of dollars) 1934 to 1940, Jan.-Nov. 1941. Fed Res Bul 28:36 Ja '42 [cont monthly]

Dividend payments to creditors of insolvent national banks authorized during the month ended Jan. 31, 1942. Comm & Fin Chr 155:1159 Mr 19 '42 [cont monthly]

Insolvent national banks liquidated and finally closed during the month of February, 1942. Comm & Fin Chr 155:1156 Mr 19 '42 [cont monthly]

BANK for international settlements

British participation in the BIS. Economist 143:456-7 O 10 '42

Report. Economist 143:516-17 O 24 '42

BANK furniture

Desks increase efficiency when used to organize work. A. M. Spinck. il Bankers Mo 58:556-7+ D '41

BANK guaranty of deposits. See Banks and banking—Guaranty of deposits

BANK holidays

Banking holidays by states, January-June, 1942; tabulation. Bankers Mo 58:554 D '41

Banking holidays by states, July-December, 1942; tabulation. Bankers Mo 59:278 Je '42

BANK libraries

Bank library; First National bank of Chicago. M. E. Wells. il Banking 34:46 Je '42

Daily operation of a bank library; Bank of the Manhattan company, New York. A. P. Mendel. il Bankers M 144:506-8 Je '42

How to operate a bank library; with a suggested list of books. R. Miller. il Bankers Mo 59:445-7, 462 O '42

BANK loans. See Loans, Bank

BANK money orders

New clearing charges help the sale of bank money orders. il Bankers Mo 59:174-5 Ap '42

BANK notes

Early business college bank notes. J. A. Muscalus. 12p. John A. Muscalus, 717 W. Marshall st, Norristown, Pa. '42

BANK of America national trust and savings association

Bank of America opens a new building. il Bankers Mo 59:63-4 F '42

California statewide branch bank exceeds two billions in resources. Comm & Fin Chr 155:118 Ja 8 '42

Fighting dollars; Bank of America is proud of its part in the war. E. L. Kelly. il Burroughs Clearing House 26:11-13+ Jl '42

BANK of Canada. See Banks and banking—Canada

BANK of England

By-passing the market. Economist 143:147-8 Ag 1 '42

End of year position; bank rate since 1858; position, Sept. 17, 1941 to Sept. 9, 1942. Economist 143:sup12 S 19 '42

Wartime technique. Economist 143:113 Jl 25 '42

BANK of France

Will not review writ attaching French gold. Comm & Fin Chr 155:2129 Je 4 '42

BANK of London and South America

Meeting, London. Economist 141:766 D 20 '41

BANK of Manhattan company

Net operating earnings, 1941. Comm & Fin Chr 155:223 Ja 15 '42

BANK of Montreal

Annual general meeting, 124th, Montreal. Economist 142:163 Ja 31 '42; Bankers M 144:60-1 Ja '42

Bank of Montreal Canada's oldest bank, now observing its 125th anniversary. Comm & Fin Chr 156:1728 N 12 '42

Bank of Montreal celebrates 125th anniversary. J. Montagnes. il Burroughs Clearing House 26:28+ S '42

BANK officials

Bank officer's knowledge of false entries. C. R. Rosenberg, jr. Burroughs Clearing House 26:27+ Mr '42

Personnel changes in trust institutions. Published in monthly numbers of Trusts and estates

President's fraud imputed to bank. Burroughs Clearing House 26:35-6 Jl '42

BANK protection for rivers. See Rivers—Bank protection

BANK research

New mine of bank facts; theses of students of the Graduate school of banking. J. L. Cooley. Banking 35:86-7 N; 83 D '42

BANK reserves

Bank stocks; bill providing method by which government will provide reserves for banks to absorb war financing. Comm & Fin Chr 155:2294 Je 18 '42

Banking situation undergoing a transformation. Nat City Bank p88-90 Ag '42

Central banking technique; Federal reserve board reduction in reserve requirements. Bankers M 145:229 S '42

Change in reserve requirements now law. Comm & Fin Chr 156:112 Jl 9 '42

BANK reserves—*Continued*

Comment on bank reserves. R. L. Johnson. Banking 34:69 D '41

Condition of all member banks, reserves and liabilities. Fed Res Bul 28:39 Ja '42 [cont monthly]

Decline and shifts in bank reserves. Fed Res Bul 28:741-2 Ag '42

Decline in excess reserves; loss of funds by New York banks. Nat City Bank p140-1 D '41

Decline in New York City bank deposits. J. H. Riddle. Comm & Fin Chr 154:1245 N 27 '41

Fatter reserves; would ease position of New York, Chicago banks to aid U.S. financing. Business Week p91-2 Je 13 '42

Favors changes in reserve requirements. M. S. Eccles. Comm & Fin Chr 155:2408 Je 25 '42

Federal reserve act changes feature reserves. Burroughs Clearing House 26:42-3 Ag '42

Gold reserves of central banks and governments, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:76 Ja '42 [cont monthly]

How banks pay for Treasury securities. Nat City Bank p76-7 Jl '42

Member bank reserve balances by classes of banks, Nov. 1940-Nov. 1941. Fed Res Bul 28:34 Ja '42 [cont monthly]

Member bank reserve requirements. Nat City Bank p102-3 S '42

Problem of maintaining reserves. Nat City Bank p 114 O '42

Reduction in reserve requirements; causes of decrease in excess reserves. Fed Res Bul 28:869-72 S '42

Requirement that reserves of the Mexican banks be raised. Bankers M 145:54-5 Jl '42

Reserve position of member banks, Nov. 1941, by classes of banks and districts. Fed Res Bul 28:34 Ja '42 [cont monthly]

Reserve requirements cut in N.Y. & Chicago. Comm & Fin Chr 156:720, 994 Ag 27, S 17 '42

Reserves: amendment to Regulation D; computation of deficiencies; loans and dividends while reserves are deficient. Fed Res Bul 28:202 Mr '42

Reserves; balance in differential account set up upon purchase of instalment paper. Fed Res Bul 28:302-3 Ap '42

Reserves of member banks; Regulation D amended. Fed Res Bul 28:749-53 Ag '42

Reserves required to be maintained by member banks with Federal reserve banks. Fed Res Bul 28:989 O '42

Text of measure amending Federal reserve act affecting reserve requirements. Comm & Fin Chr 156:200 Jl 16 '42

To permit changes in reserve requirements; bills introduced in Congress. Comm & Fin Chr 155:2202 Je 11 '42

Urges Reserve banks to cut idle excess reserves and invest in government bonds. A. Sproul. Comm & Fin Chr 156:1721 N 12 '42

BANK supplies. See Bank equipment and supplies

BANKERS

Banker goes to war! F. M. Law. Bankers M 145:218-20 S '42

Bankers must help preserve purchasing power. O. W. Adams. Bankers M 145:41-3 Jl '42

Group of Association leaders; portraits. Banking 35:170-1 S '42

Record of accomplishment. F. D. Roosevelt. Banking 35:4 S '42; Same. Bankers M 145:252 S '42; Same. Comm & Fin Chr 156:1074 S 24 '42

Urges retirement for bankers; abstract. P. R. Hamill. Bankers M 145:272 S '42

BANKERS' associations

Convention calendar. Published in monthly numbers of Banking

Convention dates. Published in monthly numbers of Bankers magazine

War tempo of state associations. W. Duncan, jr. Banking 35:177 S '42

See also names of associations, e.g. American bankers association

BANKERS' blanket bond

Blanket bond cover ruled on by court; embezzler was not employee of banking concern. Weekly Underw 146:438 F 21 '42

Claim man's analysis of Bankers' blanket bond form no. 24, definitions and insurance clauses, riders. S. F. Maher. Weekly Underw 146:722+ Mr 28 '42

Currency exchange loss brings crisis. Nat Underw 46:22+ Mr 26 '42

Probes blanket bond claims' future. W. L. Flynn. East Underw 43:33+ Mr 27 '42

Wall Street bond losses and some predictions. W. L. Flynn. Nat Underw 46:24 Ap 2 '42

BANKING law

Additional loans allowed with field warehouse protection. J. Y. Beaty. map Bankers Mo 59:258-60+ Je '42

Attorneys advise against mandatory record destruction schedules. C. S. Trevvett. Bankers Mo 59:16+ Ja '42

Court decisions. C. R. Rosenberg, jr. Published in monthly numbers of Burroughs Clearing House

Law for the layman; the special deposit and the special check. M. L. Hayward. Barron's 22:9 F 16 '42

Legal answer page. Published in monthly numbers of Banking

Myth of the security affiliate. G. W. Edwards. Am Statis Assn J 37:225-32 Je '42

Responsibilities in handling custodian accounts of individual fiduciaries. H. L. Thomson. Trusts & Estates 74:73 Ja '42

Some don'ts for bankers. L. B. Rowley. Bankers M 144:317-19 Ap '42

Wartime banking hours. Banking 34:46 My '42

What the laws say about keeping old records. J. Y. Beaty. Bankers Mo 58:548-9+ D '41

See also

Banks and banking—Branch banking

Banks and banking—Guaranty of deposits

Banks and banking—Regulation

Banks and banking—Taxation

Federal reserve act

Federal reserve banks

Trusts and trustees

Canada

Law of banks and banking in Canada. P. Phillips and M. S. Millstone. 123p $1 Blackstone pub. co, Toronto '41

Connecticut

Laws relating to state banks and trust companies, savings banks, industrial banks, savings bank life insurance, building and loan associations, trustees under mortgages and other fiduciaries, investment companies, small loan licensees, private bankers and brokers and to the sale of securities. 378p Office of bank commissioner, Hartford, Conn. '41

New York (state)

Banking law of the state of New York. T. W. Cantwell, ed. 442p $2.50 Williams press, Albany, N.Y. '41

Oklahoma

Director meeting minutes; Oklahoma banking department requirement. Banking 34:64 Je '42

Tennessee

Banking laws of the state of Tennessee. 35p Dept. of insurance and banking, Division of banking, Nashville, Tenn. '41

United States

Banks engaged in interstate commerce within meaning of National labor relations act. Banking 35:44 N '42

Banks in United States territories and possessions; summary of laws. Fed Res Bul 27:1226-8 D '41

See also

Federal reserve banks

BANKRUPTCY

Agent cannot cancel debts to company by bankruptcy. East Underw 43:22 Ja 9 '42

Chandler act as applied in the case of a bankrupt stock broker: text of decision; cash customer of bankrupt broker can regain securities in broker's name. Comm & Fin Chr 154:1221 N 27 '41

Guarding the nation's profits; something about fraud prevention. H. Bailey. Credit & Fin Management 43:22-3 D '41

Handbook on bankruptcy. A. L. Lavine. 266p $2.75 Professional publications, New York '41

Holds unpaid social security tax entitled to priority. Comm & Fin Chr 155:1140 Mr 19 '42

Law and procedure of bankruptcy and reorganization. J. S. Raphael. 177 l $3.50 Business text-book publishers, New York '41

Law's letter is not necessarily the law. E. M. Baker. Credit & Fin Management 44:28-9 My '42

New bankruptcy statistics issued by Administrative division of the United States courts. Credit & Fin Management 44:8-9 Mr '42

Railroad reorganizations under the Bankruptcy act. W. H. S. Stevens. bibliog J Business 15:205-24, 361-81 Jl-O '42

Reorganization of railroad corporations; a study of the public interest. W. H. Moore. 173p bibliog(p171) $3 Am. council on public affairs, Washington, D.C. '41

See also

Business failures	Electric railroads—Receiverships
Corporations—Reorganization	Railroads—Receiverships
Debtor and creditor	

Bibliography

List of recent references on bankruptcy in the U.S. (supplementing list of Jan. 2, 1940). G. H. Fuller, comp. 23p U.S. Lib. of Congress, Division of bibliography, Washington '41

BANKS, Coin. See Coin banks

BANKS, Federal reserve. See Federal reserve banks

BANKS, National. See Banks and banking, National

BANKS, Savings. See Savings banks

BANKS and banking

American city, post-war. T. H. Reed. il map Banking 34:28-9 Mr '42

Anti-wasters department. Banking 34:50-8 My '42 [cont monthly]

Are you a crisscrosser? bank operating efficiency. E. S. Woolley. Banking 35:43 O '42

Banks in the dock. Economist 143:441-2 O 10 '42

Credit control; a study of the genesis of the qualitative approach to credit problems. H. J. Mellon. 134p bibliog(p130-4) pa $2 Am. council on public affairs, Washington, D.C. '41

Cure for audit-fear. L. D. Meredith. Banking 35:27+ O '42

Dishonored items returned the day after receipt. Bankers Mo 59:250-3+ Je '42

Distribution and bookkeeping combined and modernized. S. A. Horvath. il Bankers Mo 59:160-1+ Ap '42

Economist banking supplement. Economist 143:sup3-45 S 19 '42

Folder showing peak loads is distributed to customers. il Burroughs Clearing House 26:4-5 Ap '42

Impact of defense. W. R. Kuhns. Banking 34:75 D '41

Impact of inflation on banking. C. D. Harris. Comm & Fin Chr 156:1082 S 24 '42; Same abr. Banking 35:39 S '42; Excerpts. Bankers M 145:349-50 O '42

Importance of system in bank operation. O. B. Lovell. Bankers M 145:191-202 S '42

Let's preserve the independent local bank. P. Delano. Bankers M 143:443-5 N '41

Machine paying routine; First national exchange bank of Roanoke, Virginia. Bankers Mo 59:404-5 S '42

Money and banking, 1940/42. 202p Columbia univ. press '42

Money, currency and banking. H. L. Reed. 522p bibliog(p509-16) $3.75 McGraw-Hill '42

Money order collection restrictions. Banking 34:74 Mr '42

New bank draft, or is it a blitz on institutional waste? Trusts & Estates 74:372-3 Ap '42

New bankers, here's to you. W. Powers. il Banking 34:19-21+ Je; 35:20-1 Jl; 28-9 Ag; 30-1 O; 28-9 N '42

Paying and posting delayed in at least two cities. R. T. Fitch, A. A. Doskey and G. J. Ruhlman. il Bankers Mo 59:347-9+ Ag '42

People can take it; anti-inflation control; banker in the new situation. A. W. Atwood. Banking 34:22-3+ Je '42

Personnel problems. A. Van Vlissingen. il Burroughs Clearing House 26:11-14+ N '41

Proceedings of the third New Hampshire bank management conference, June 5-6, 1942. G. W. Woodworth, ed. 76p pa $1 Amos Tuck school of business administration, Dartmouth college, Hanover, N.H. '42

Profitable convention programs based on banking experience. J. W. Brown, jr. Bankers Mo 59:245-7+ Je '42; Discussion. 59:294-6+ Jl '42

708 tested ideas published in Bankers monthly in 1941. Bankers Mo 59:26-9, 36-9 Ja '42

Simplified check handling learned quickly by new workers. W. O. Johnson. Bankers Mo 59:343-4 Ag '42

Simplifying bank operations. L. W. Bishop. Bankers M 143:528 D '41

Small city banking; First national bank of San Mateo county, Redwood City, California, has adjusted its operations to serve its community in wartime. J. E. Morrish. il Burroughs Clearing House 27:13-15+ O '42

Some don'ts for bankers. L. B. Rowley. Bankers M 144:317-19 Ap '42

Ten fundamentals. H. V. Prochnow. Banking 35:43-4 S '42; Same. Comm & Fin Chr 156:1080 S 24 '42; Same. Bankers M 145:358-60 O '42

326 tested ideas published since January 1, 1942. Bankers Mo 59:354, 356+ Ag '42

Thrift takes on a new necessity; bankers share a national obligation. J. M. Dodge. Bankers M 144:477-86 Je '42

Traditional technique dangerous because of changing conditions; some new procedures of the First national bank, Madison, Wisconsin. T. R. Hefty. il Bankers Mo 59:291-3+ Jl '42

24 operations eliminated by revising systems. Bankers Mo 59:157-9 Ap '42; Discussion. 59:353+, 398-9 Ag-S '42

War economy; monetary management. A. P. Woolfson. Bankers M 143:471-4 D '41

We're always looking for ideas; Security trust and savings bank, Shenandoah, Iowa. C. W. Fishbaugh. il Bankers Mo 59:168-71 Ap '42

Why operating errors occur and what one bank does about it. il Bankers Mo 59:8-9 Ja '42

See also

Agricultural credit	Home loan banks
Bank accounting	Interest
Bank advertising	Investment banking
Bank buildings	Investment trusts
Bank deposits	Land banks
Banking law	Loans, Bank
Checks	Morris plan banks
Credit	Safe deposits
Export-import bank of Washington	Savings banks
Federal reserve banks	Savings deposits
Foreign exchange	Securities
	Trust companies

Automobile parking service

Kansas City bank builds parking garage. L. Fanald. il Bankers M 143:476 D '41

BANKS and banking—Automobile parking service—*Continued*

Solution to the customer parking problem; Worcester County trust company. il Burroughs Clearing House 26:7-8 D '41

Bibliography

Books. Published in monthly numbers of Banking
Books for bankers. Published in monthly numbers of Bankers magazine
Suggested list of books for a bank library. R. Miller. Bankers Mo 59:447, 462 O '42

Branch banking

Banks and branches, number of banks in operation and number operating branches or additional offices, December 31, 1940 and 1941. Fed Res Bul 28:604 Je '42
Branch banking; its historical and theoretical position in America and abroad. J. M. Chapman and R. B. Westerfield. 431p $4.50 Harper '42
Camp banks. H. Bratter. Banking 35:53 Ag '42
Changes in number of banks and branches in the United States, Jan.-June 1942. Fed Res Bul 28:962 S '42
Changes in number of banks and branches in the United States, 1941. Fed Res Bul 28: 171 F '42
F.D.I.C. and branch banking. Bankers M 144:262 Mr '42
Illinois bankers oppose branch banks at camps. Comm & Fin Chr 155:1634 Ap 23 '42; Same. Bankers M 144:443 My '42
New branch bank organized as complete unit; First national bank of Memphis. il Burroughs Clearing House 26:6 N '41

Central banks

Annual report of the Central bank of the Argentine Republic, 1941. Fed Res Bul 28: 892-910 S '42
Central bank for Eire. Economist 142:362-3 Mr 14 '42
Central bank loans to governments. Economist 142:723 My 23 '42
Central banks; assets and liabilities. Published in monthly numbers of Federal reserve bulletin
Central banks in enemy-occupied countries. P. Einzig. Bankers M 145:242 S '42
Eire; Central bank proposed. Bankers M 144: 424-6 My '42

See also
Bank of England
Bank of France
Federal reserve banks

Checking accounts

Every account analyzed; State bank and trust co., Evanston, Ill. L. E. Solem. Bankers Mo 58:541-3+ D '41
New emphasis on service charges; Suburban trust and savings bank, Oak Park, Ill. F. B. Peake. il Burroughs Clearing House 26: 16-18+ S '42
Ten cent checks climb; pay-as-you-go accounts. Business Week p22 Ap 18 '42

See also
Banks and banking—Service charge

Correspondent banks

City bank helps correspondent set up field warehouse loan. F. M. Horton. Bankers Mo 59:162+ Ap '42
City banks help correspondents in over a hundred ways; summary of experience articles published in Bankers monthly. Bankers Mo 59:248-9+ Je '42
Correspondent representatives help promote livestock feeding. C. H. Haesemeyer and D. D. Fuller. Bankers Mo 59:400+ S '42
Let customers know about correspondent services. J. Y. Beaty. Bankers Mo 59:440-1+ O '42
Many advantages in participation credits. W. S. Woods. Bankers M 144:410-12 My '42
Operating improvements spread by city correspondent banks. J. Y. Beaty. Bankers Mo 58:493+ N '41
These nine banks co-operate in using correspondent bank services; Chippewa Valley club. G. O. Thorpe. il Bankers Mo 59:390-3+ S '42
Western banks well served by city correspondents. J. Y. Beaty. Bankers Mo 59:53-4 F '42

Costs

Time to look at costs again. O. C. Lorenz. Banking 34:42 F '42

See also
Bank accounting

Country banks

After three I made my calls; public relations program of Bank of Powhatan, Powhatan, Virginia. W. R. Parker. Banking 34:32+ My '42
Banks employ poultry expert; Peoples bank and trust co. and Bank of Tupelo, Mississippi. Bankers Mo 59:299+ Jl '42
Correspondent representatives help promote livestock feeding. C. H. Haesemeyer and D. D. Fuller. Bankers Mo 59:400+ S '42
Country banker serves. W. D. Meacham. il Banking 35:116-19 S '42
Country banker's job. K. J. McDonald. Banking 35:134-5 S '42; Excerpts. Bankers M 145: 355-6 O '42
Credit file for the small bank. B. E. Rhodes. Burroughs Clearing House 26:26-7+ S '42
Let customers know about correspondent services. J. Y. Beaty. Bankers Mo 59:440-1+ O '42
Outside program for country banks. N. A. Jamba. il Banking 35:135-7 S '42
Reconditioned farm equipment will aid future stability; equipment dealers look to their local bankers. il Bankers Mo 59:399-400 S '42
Small bank earnings; State savings bank, Otsego, Mich. H. G. Vincent. il Burroughs Clearing House 26:13-15+ My '42
Small town business improving; what bankers say. E. E. Sproul. Bankers Mo 59:387-9+ S '42
These nine banks co-operate in using correspondent bank services; Chippewa Valley club. G. O. Thorpe. il Bankers Mo 59:390-3+ S '42
This is worth fighting for; Main Street tradition in America as applied to banking. J. T. Adams. il Banking 34:20-2 Ja '42

Credit departments

Charged off loans collected by systematic handling. J. L. Reese. Bankers Mo 58:552-3 D '41
Credit analysis a problem for banks. R. A. Foulke. Bankers M 144:197-201 Mr '42

See also
Credit, Bank

Records

Credit file for the small bank. B. E. Rhodes. Burroughs Clearing House 26:26-7+ S '42

Credit information service

Appeal credit inquiry case; bank held liable for report on customer. Credit & Fin Management 44:13-14 Ag '42

Custodianship

Responsibilities in handling custodian accounts of individual fiduciaries. H. L. Thomson. Trusts & Estates 74:73 Ja '42
Safekeeping war bonds. il Banking 35:75-6 N '42 (to be cont)

Customer relations

Analyzing the 1942 bank customer. A. Herrick. il Burroughs Clearing House 26:5-6 Mr '42
Folder showing peak loads is distributed to customers. il Burroughs Clearing House 26: 4-5 Ap '42
Indians waste no words; interest in each customer and his activities is basis for genuine service. G. L. Emmons. Bankers Mo 59:125+ Mr '42

BANKS and banking—Customer relations—*Continued*

Twenty inkwells and sixty pens; First National bank and trust co, Bridgeport, Conn. J. H. McCall. il Bankers Mo 59:83-4 F '42

We help both dealers and farmers to improve operations; Hunterdon County national bank, Flemington, N.J. W. Kinnamon. Bankers Mo 59:176-7 Ap '42

We tell our customers—get out of debt! preventing the trouble that followed the first World war; Bank of Huntington, Hartington, Neb. E. W. Rossiter. Bankers Mo 59:155-6 Ap '42

When a customer complains. C. D. Wagoner. Banking 34:74-5 Ap '42

See also
Banks and banking—
Public relations

Depositors

Bankers must help preserve purchasing power. O. W. Adams. Bankers M 145:41-3 Jl '42

Imaginary depositors. C. R. Rosenberg, jr. Burroughs Clearing House 27:44 O '42

See also
Bank deposits
Banks and banking—
Customer relations

Employees

See Bank employees

Exhibits

Lobby flower show benefits bank public relations. S. Falligant. il Bankers Mo 59:452, 454 O '42

Ten minutes a day creates a local sensation; baby chicks in a brooder in the lobby. R. F. Adams. Bankers Mo 58:553 D '41

Fees

New clearing charges help the sale of bank money orders. il Bankers Mo 59:174-5 Ap '42

We read your article on fees: Fees are important in today's earnings. Bankers Mo 59:23-4+ Ja '42

See also
Banks and banking
—Service charge

Finance

ABA reports higher national bank profits, year ended June 30, 1941. Comm & Fin Chr 154:1344 D 4 '41

Ask Treasury outline for deficit financing. A. M. Massie. Comm & Fin Chr 155:2126 Je 4 '42

Bank stocks; adequacy of bank capital. Comm & Fin Chr 155:1614-15 Ap 23 '42

Bank stocks; changes in the balance sheets of the big banks since Pearl Harbor. Comm & Fin Chr 156:1430 O 22 '42

Bank stocks; fourth quarter dividend meetings awaited. Comm & Fin Chr 154:1318 D 4 '41

Bank stocks; indicated earnings of New York city banks for first quarter, 1942. Comm & Fin Chr 155:1430 Ap 9 '42

Bank stocks; indicated profits of 24 leading New York City banks, first and second quarters. Comm & Fin Chr 156:174 Jl 16 '42

Bank stocks; New York city banks 1941 experience. Comm & Fin Chr 155:1230 Mr 26 '42

Bank stocks; Regulation V loans and credit expansion. Comm & Fin Chr 156:1070 S 24 '42

Bank stocks; study of earnings outlook under proposed taxes. Comm & Fin Chr 155:1934 My 21 '42

Bank trends revealed in annual reports. Burroughs Clearing House 26:3-4 F '42

Banking developments, 1941. Survey of Cur Business 22:60-2 F '42

Banking situation undergoing a transformation. Nat City Bank p88-90 Ag '42

Banks and the war effort; with annual ratio analysis of New York, Chicago, Philadelphia and Boston banks. F. L. Garcia. Bankers M 144:119-26 F '42

Banks must assume greater responsibilities, make greater sacrifices. W. R. White. Comm & Fin Chr 155:2125 Je 4 '42

Banks report higher earnings but three dividend reductions depress market in December quarter. Barron's 22:44 Ja 12 '42

Billions for war. Business Week p70-1+ Je 6 '42

Capital requirements. J. W. Miller. Banking 34:42 Je '42

Close sailing; banks feel strain of war financing. Business Week p90+ O 10 '42

Commercial banks and the war finance program. A. M. Massie. Bankers M 145:6-12 Jl '42

Competition for savings. G. F. Berger. Banking 34:29+ Je; 35:26+ Jl '42

Conversion of commercial bank funds. H. E. Zarker. Bankers M 143:300-10, 387-409, 485-98; 144:32-42, 127-30+, 217-23 O '41-Mr '42

Deposits, invested funds gain, but not in proportion; last six months of 1941; comparison of consolidated statements of American banks, Dec. 30, 1933-Dec. 30, 1940. Bankers Mo 59:166 Ap '42

Development and use of member bank earning and expense statements. Fed Res Bul 27:1230-1 D '41

Drain on Gotham; New York banks feel pressure of war financing. Business Week p78+ Jl 11 '42

Earnings and expenses of Federal reserve banks during 1941. Fed Res Bul 28:172-3 F '42

Earnings outlook. W. A. McDonnell; E. V. Krick; H. V. Prochnow. Banking 35:40-4 S '42

Effects of war financing on banks. W. R. Burgess. Banking 35:16-17 S '42; Same. Bankers M 145:203-6 S '42; Same. Comm & Fin Chr 156:1078+ S 24 '42

Factors in the control of fund conversion. A. P. Thompson. Bankers M 145:101-12 Ag '42

FDIC finds ratio of capital to resources declining; Treasury finds no cause for alarm. Comm & Fin Chr 156:1181 O 1 '42

FDIC reports earnings of insured banks up in 1941. Comm & Fin Chr 155:2224 Je 11 '42

FDIC reports insured banks had record loans and deposits on Dec. 31, 1941. Comm & Fin Chr 155:1353 Ap 2 '42

FDIC reports insured banks had record assets and deposits on June 30, 1942. Comm & Fin Chr 156:1190 O 1 '42

How banks pay for Treasury securities. Nat City Bank p76-7 Jl '42

Massachusetts savings bank depositors subsidize life insurance departments. F. E. DeGroat. East Underw 42:3-4 D 19 '41

Member bank earnings and expenses in 1941; with comparisons, 1928-1940. Fed Res Bul 28:551 Je '42

Member bank earnings and expenses, 1941, by size of bank. Fed Res Bul 28:715-17 Jl '42

Member bank earnings and expenses, 1941; with comparisons for other years. Fed Res Bul 28:711-22 Jl '42

National bank assets up; loans show decline; figures for June 30. Comm & Fin Chr 156:893 S 10 '42

National bank earnings were higher in 1941. Comm & Fin Chr 155:2130 Je 4 '42

National banks gross earnings in first half of 1942. Comm & Fin Chr 156:1192 O 1 '42

New edition of Blue book shows six new highs in statements. Bankers Mo 59:450-1+ O '42

New forces affecting money, bank loans, investments. H. M. Tremaine. Mag of Wall St 70:586-7+ S 19 '42

New York City banks' indicated earnings per share, second quarter 1939-1942, and years ending June 30, 1939-1942. Barron's 22:18 Jl 13 '42

Outlook for bank earnings. J. J. Driscoll, jr. Banking 35:2-3 Ag '42

BANKS and banking—Finance—*Continued*

Outlook for bank earnings good; touches on inflation. R. Babson. Comm & Fin Chr 156:1161+ O 1 '42

Peoples-Pittsburgh announces profit-sharing plan. Bankers M 144:256-7 Mr '42

Problem of bank capital ratios. L. T. Crowley. Bankers M 144:379-83 My '42; Excerpts. Comm & Fin Chr 155:1545 Ap 16 '42

Profits of British banks for last completed financial year. Economist 143:sup11 S 19 '42

Ratio of bank profits to capital funds up; Second federal reserve district. Comm & Fin Chr 155:1061 Mr 12 '42

Small bank earnings; State savings bank, Otsego, Mich. H. G. Vincent. il Burroughs Clearing House 26:13-15+ My '42

Some comments on banking and supervision. R. K. Henry. Bankers M 144:397-401 My '42

Taxes reduce bank earnings; indicated net showings for the March quarter generally lower. Barron's 22:18 Ap 13 '42

Third quarter bank earnings mixed; New York city banks' indicated earnings per share. Barron's 22:4 O 12 '42

Trust functions as source of bank earnings; statistics prove stability of trust department income. A. J. Zoller. Trusts & Estates 75:159-60 Ag '42

We read your article on fees: Fees are important in today's earnings. Bankers Mo 59:23-4+ Ja '42

Window dressing. Economist 143:337-8 S 12 '42

See also
Bank accounting
Bank reserves
Banks and banking—Investments
Banks and banking—Stock

Foreign branches

American banks abroad. Bankers M 144:262-3 Mr '42

Bank of Brazil to open agency in Asuncion. For Comm W 5:17 N 22 '41

Italian bank agencies in New York seized. Comm & Fin Chr 154:1574 D 18 '41

Foreign funds

Foreign funds control. H. D. Ralph. il Burroughs Clearing House 26:21-3 Ja '42

Toward simpler freezing control. H. Bratter. Banking 34:44 F '42

Forms, blanks, etc.

Bank's statement form has detachable debit ticket. il Burroughs Clearing House 26:4 Jl '42

Twelve jobs on one machine by planning the forms to fit the loan and discount machine. R. H. Albig. il Bankers Mo 59:14-15 Ja '42

See also
Banks and banking—Records

Government service

See Banks and banking—Service to government

Group banking

Number and deposits of banks in 37 groups, and numbers of branches of group banks, December 31, 1941. Fed Res Bul 28:603 Je '42

Guaranty of deposits

Conversion of commercial bank funds; bank operations and federal deposit insurance. H. E. Zarker. Bankers M 144:127-30+ F '42

FDIC income for half year increases surplus further. Comm & Fin Chr 156:1175 O 1 '42

FDIC income for 1941 largest on record. Comm & Fin Chr 155:859 F 26 '42

FDIC report, 1941. L. T. Crowley. Bankers M 144:229 Mr '42

FDIC reports earnings of insured banks up in 1941. Comm & Fin Chr 155:2224 Je 11 '42

FDIC reports insured banks had record assets and deposits on June 30, 1942. Comm & Fin Chr 156:1190 O 1 '42

FDIC reports insured banks had record loans and deposits on Dec. 31, 1941. Comm & Fin Chr 155:1353 Ap 2 '42

FDIC to pay insured claims on Italian bank. Comm & Fin Chr 155:39 Ja 1 '42

Insured deposits show increase. Bankers M 144:85 Ja '42; Same. Comm & Fin Chr 155:18 Ja 1 '42

Survey of coverage by deposit insurance; F.D.I.C. analysis of accounts and deposits in insured commercial banks, Sept. 24, 1941 and Sept. 21, 1938. Burroughs Clearing House 26:21+ F '42

History

Financial institutions, 1776-1841. R. A. Foulke. il Dun's R 50:18-22+ Ap '42

Bibliography

Bibliography of histories of specific banks. J. A. Muscalus. 16p pa 50c John A. Muscalus, 717 W. Marshall st, Norristown, Pa. '42

Hours of business

Advocates shortening of bank hours to release manpower for war work. G. V. McLaughlin. Comm & Fin Chr 155:1542 Ap 16 '42

Operations during air raids or air-raid warning periods. Banking 34:41 F '42

War time. Banking 34:46 Mr '42

Wartime banking hours. Banking 34:46 My '42

Wartime study of banking hours. il Burroughs Clearing House 26:14-16, 30-2 Jl '42

Insurance, Customers'

Review of insurance for borrowers; insurance needed for each of 46 industries. Bankers Mo 59:107-10 Mr '42

Insurance requirements

War and bank insurance. W. B. Unbehend. Banking 34:51-2 Ap '42

War damage corporation to offer banks four types of insurance, all within one policy. Comm & Fin Chr 156:1550 O 29 '42

War damage precautions. E. H. Collins. il Banking 34:41-2, 44 My '42

War risk insurance for bank funds soon. Comm & Fin Chr 156:188 Jl 16 '42

War risks on money and securities. J. E. Baum. Banking 35:78 O '42

See also
Bankers' blanket bond

Insurance selling

Asks cancellation of New York City bank's license as agent. Nat Underw (Life ed) 46:2 My 1 '42

Banking and insurance. Bankers M 144:50 Ja '42

N A L U condemns bank agencies. Weekly Underw 146:392+ F 14 '42; East Underw 43:9 F 13 '42; Nat Underw (Life ed) 46:1+ F 13 '42

National bank has insurance division. Nat Underw (Life ed) 45:3+ D 5 '41

Vetoes bill barring bank agencies in New York. Nat Underw (Life ed) 46:4 My 29 '42

See also
Savings banks—Insurance selling

Investments

All banks in the United States, loans and investments. Published in monthly numbers of Federal reserve bulletin

All member banks; classification of loans, investments, real estate, and capital on Dec. 31, 1941 by classes of banks. Fed Res Bul 28:378 Ap '42

All member banks; classification of loans, investments, real estate, and capital on June 30, 1942 by classes of banks. Fed Res Bul 28:964 S '42

Bank bond policy; abstract. M. Nadler. Bankers M 145:321-2 O '42

Bank co-operation in war finance. R. G. Rodkey. Burroughs Clearing House 26:16-18+ Ag '42

BANKS and banking—Investments—*Continued*

Bank investment policy. Bankers M 144:509-10 Je '42

Bank investments over £1,000,000,000; statement of London clearing banks. Economist 142:230 F 14 '42

Bank stocks; government portfolios of New York banks. Comm & Fin Chr 155:414 Ja 29 '42

Banker, politician & co. R. P. Shorts. Trusts & Estates 74:451-4 My '42

Bond notes; all out investment in government bonds for commercial banks. Bankers M 144:228 Mr '42

Commercial banks essential to war financing. D. W. Bell. Comm & Fin Chr 156:1525+ O 29 '42

Condition of all member banks, loans and investments. Published in monthly numbers of Federal reserve bulletin

Conversion of commercial bank funds; a plan to provide for liquidity and flexibility of funds and the stabilization of profits in commercial banking. H. E. Zarker. 76p pa $1.50 Bankers pub. co, 465 Main st, Cambridge, Mass. '42; Reprinted from Bankers M 143:300-10, 387-409, 485-98; 144:32-42, 127-30+, 217-23 O '41-Mr '42

Each bank, its fair share. E. S. Adams. il Banking 34:28 Je '42

Factors in the control of fund conversion. A. P. Thompson. Bankers M 145:101-12 Ag '42

Grip of gilt-edged. Economist 142:191-2 F 7 '42

How much war financing through banks? Barron's 22:1 Je 22 '42

How supervisors view other real estate. L. A. Reilly. Bankers M 144:310-16 Ap '42

How the war affects bank investment policy. R. G. Rodkey. Bankers M 144:495-503 Je '42

How the war emergency is affecting real estate. E. M. Fisher. Bankers M 143:549-50 D '41

Investment and finance; a monthly survey of current developments affecting the bank investment market. O. Lasdon, ed. Published in monthly numbers of Bankers magazine

Investment policy for commercial banks. K. L. Trefftzs. Bankers M 145:32, 34-5 Jl '42

Now time to overhaul your mortgage portfolio. I. Bussing. Bankers M 145:207-10 S '42

Outlook for mortgages and real estate. M. Nadler. Bankers M 144:71-5 Ja '42

Plan for financing small business. R. L. Weissman. Bankers M 144:491-4 Je '42

Problems in mortgage lending. G. Nash. Banking 35:106-10 S '42; Excerpts. Trusts & Estates 75:261-3 S '42

Rail bond fund for banks; correcting one-way market in the more speculative issues. E. S. Brooks. Barron's 21:18 D 1 '41

Report of the ratings special committee, I.B.A. Comm & Fin Chr 154:1446 D 11 '41

Reporter on governments; banks' investment problems. Comm & Fin Chr 155:1609+ Ap 23 '42

Restricted outlook for bank investments. J. H. Clark. Bankers Mo 59:101+ Mr '42

Supremacy of bank investments. Economist 141:sup3-4 S 20 '41; Same abr. Bankers M 143:430-2 N '41

Treasury bills and certificates as outlets for idle funds. Fed Res Bul 28:631-2 Jl '42

Urges Reserve banks to cut idle excess reserves and invest in government bonds. A. Sproul. Comm & Fin Chr 156:1721 N 12 '42

Wartime desk charts for bankers. J. L. Kolb. Banking 34:30-1 Je '42

Wartime investment policies. E. S. Adams. Banking 34:26-7 F '42

Wartime investment policy. M. Nadler. Banking 35:35-6+ S '42; Same. Comm & Fin Chr 156:1079+ S 24 '42; Excerpts. Bankers M 145:357-8 O '42

Wartime investment report to directors. E. S. Adams. Banking 35:24-5+ Ag '42

See also
Loans, Bank
Savings banks—Investments

Cooperative research and control

These nine banks co-operate in using correspondent bank services; Chippewa Valley club. G. O. Thorpe. il Bankers Mo 59:390-3+ S '42

Mail service

Tire and gas restrictions make mail banking necessary. B. R. Meyer. il Bankers Mo 59:350-1 Ag '42

New business

Payroll savings an opportunity for new savings accounts. E. B. Sturges, 2d. Bankers M 145:253-5 S '42

There may be some new loans in your credit files; stored commodities. Bankers Mo 59:58-9+ F '42

Periodicals

Attractive house organ of Fort Worth national bank. Bankers M 143:551 D '41

Protection

Bank protection in wartime. F. C. Eggerstedt. il Banking 35:132 S '42; Same. Comm & Fin Chr 156:1078 S 24 '42; Excerpts. Bankers M 145:353 O '42

Progress in loss prevention. H. Ervin. Banking 34:66 D '41

Public relations

Advertising and public relations study; Missouri bankers assn. survey. Trusts & Estates 74:266 Mr '42

After three I made my calls; public relations program of Bank of Powhatan, Powhatan, Virginia. W. R. Parker. Banking 34:32+ My '42

Air raids vs. public relations. M. B. Leach. il Banking 34:90 F '42

Banks in the war; bond promotion, service flags, civilian defense. il Banking 34:79-81 Je '42

Better public relations. W. H. Neal. Banking 35:114-15 S '42; Excerpts. Bankers M 145:361-2 O '42

British banking information; new cooperative service emphasizes social values. A. V. Barber. Trusts & Estates 75:145-6 Ag '42

Cleveland talks; A.I.B. public relations committee provides speakers to address schools. J. D. Arthur. Am Inst Banking Bul 24:20-1 Ap '42

Hour for banks to lead. R. H. Wells. il Banking 34:19-21 Mr '42

How public relations men explain banking to depositors. il Bankers Mo 59:21-2 Ja '42

It's always good business to promote thrift; suggested articles for local newspapers or bank advertisements. il Bankers Mo 59:312-14 Jl '42

Lobby flower show benefits bank public relations. S. Falligant. il Bankers Mo 59:452, 454 O '42

Public opinion. E. V. Krick. Am Inst Banking Bul 24:7-8 Ja '42

Public relations; no. 1 ingredient, is a capable, alert staff. G. A. Price. il Burroughs Clearing House 26:13-15+ Ag '42

Victory is our business; cross section of the banks' war work. il Banking 34:33-44 Mr; 33-44 Ap '42

Wartime banker. G. A. Price. il Banking 35:113-14 S '42

War-time public relations; bulletin issued by Financial advertisers association. L. L. Cox. Bankers M 145:159-61 Ag '42

We've just begun to fight; bank cooperation. il Banking 34:78-83 F '42

See also
Banks and banking—Customer relations

Purchasing

Semi-annual buyers guide and supply source. Bankers Mo 59:221-40, 513-32 My, N '42

See also
Bank equipment

BANKS and banking—*Continued*

Ration coupon handling

Banks to test ration coupon handling. Barron's 22:12 O 5 '42
Experiment in ration coupon banking. il Banking 35:20-2 N '42
Ration-bank plan to start in Albany area Oct. 26, ABA names ration coupon committee. Comm & Fin Chr 156:1448 O 22 '42
Ration-banking. Business Week p98+ O 24 '42
Ration banking. Trusts & Estates 75:336-7 O '42
Ration banking in Britain. E. H. Collins. il Banking 35:23 N '42
Ration banking, the adventures of private enterprise; sketches. B. Kirkpatrick. Banking 35:34-5 N '42
Rationing; OPA will test use of banks to handle ration paper and issue checks on it. Bankers M 145:340 O '42
To test ration-bank plan in Albany area. Comm & Fin Chr 156:1172 O 1 '42
U.S. may follow British banks on coupon banking. H. D. Ralph. Burroughs Clearing House 27:19-21 O '42

Real estate departments

Good house upkeeping. M. L. Colean. Banking 34:32+ D '41

Real estate operations

How supervisors view other real estate. L. A. Reilly. Bankers M 144:310-16 Ap '42
Mortgage loans in the emergency; clinic sponsored by Savings division, American bankers association. Banking 34:84-6 D '41
Real estate experience record of banks in Westchester county. T. D. MacGregor. Banking 34:56 F '42

Records

All bank records protected against fire or bombing; Union bank and trust co., Los Angeles. R. H. Bolman. il Bankers Mo 59:256-7, 266-7 Je '42
Attorneys advise against mandatory record destruction schedules. C. S. Trevvett. Bankers Mo 59:16+ Ja '42
Care of cash and records in air raids. E. M. Van Norden. Bankers M 144:271-2 Mr '42
Committee reports favorably on photographing stored records. Bankers Mo 59:458-60 O '42
Deposit receipts replace passbooks; experience of Terminal national bank, Chicago. G. S. Morse. il Bankers Mo 58:498, 500+ N '41
Minimum retainment periods for bank records. 50c R. Ostengaard, Live stock national bank, Chicago '42
Photographs of checks avoid disputes and losses. E. J. D. Doll. il Bankers Mo 58:496-7+ N '41
Photographs of notes avoid loss. J. Y. Beaty. Bankers Mo 59:124 Mr '42
Photographs trust records; Girard trust company of Philadelphia. Trusts & Estates 74:74 Ja '42
Ration card banking; Britain's coupon banking. F. B. Makin. Banking 35:22-3+ Jl '42
Should error records be kept? Bankers Mo 59:60-1+ F '42
Wage and hour regulations that apply to banks. Bankers M 143:531-2 D '41
War precautions for bank records. H. V. Odle. il Burroughs Clearing House 26:16-18, 30 F '42
Wartime precautions. Banking 34:72 Ja '42
We return deposit slips to customers. R. C. Ayres. Bankers Mo 59:111-12 Mr '42
What the laws say about keeping old records. J. Y. Beaty. Bankers Mo 58:548-9+ D '41

See also
Banks and banking—Credit departments—Records
Banks and banking—Forms, blanks, etc.

Regulation

Lending operations under Regulation W discussed at N.Y. state bankers meeting. L. B. Allen. Comm & Fin Chr 155:2136 Je 4 '42
Some comments on banking and supervision. R. K. Henry. Bankers M 144:397-401 My '42

See also
Banking law

Reports

Bank stocks; trend among larger banks toward more complete reports of earnings. Comm & Fin Chr 155:654 F 12 '42
How the war affects bank investment policy. R. G. Rodkey. Bankers M 144:495-503 Je '42
Improved statements of condition. W. W. Nisley. Bankers M 145:22-5 Jl '42
Publicized annual reports create customer confidence. Bankers Mo 59:149-51+ Ap '42
Telling directors. O. E. Leamon. il Banking 34:34-5 Ja '42

Reports to government

Bank officer's knowledge of false entries. C. R. Rosenberg, jr. Burroughs Clearing House 26:27+ Mr '42

Savings departments

See also
Savings banks
Savings deposits

Savings deposits

See Savings deposits

Securities

See also
Banks and banking—Stock

Securities handling

Handling a record issue of rights; Bankers trust company methods in American telephone and telegraph company warrants. F. A. Auer and F. W. Boehm. il Burroughs Clearing House 26:19+ N '41

Service

Aircastles of '42; banks should help promote sound merchandising and advertising methods. J. O. Peckham. Banking 34:22-3+ Mr '42
Army post banking facilities. Banking 35:10 O '42
Bankers' duties in financing war and aiding war production. W. R. Burgess. Comm & Fin Chr 155:1049 Mr 12 '42
Bankers in the war. W. L. Hemingway. Banking 35:29+ S '42; Excerpts. Bankers M 145:354-5 O '42
Banks employ poultry expert. Bankers Mo 59:299+ Jl '42
Bankers must sell identical services. J. M. Dodge. Bankers Mo 58:506 N '41
Camp banks. H. Bratter. Banking 35:53 Ag '42
Central Trust advertises a budget control plan. Bankers M 144:439-40 My '42
Defense leadership; how a 108-year-old Boston bank has pioneered in helping clients obtain defense work. R. B. Cox. il Burroughs Clearing House 26:11-13+ D '41
Fighting dollars; Bank of America is proud of its part in the war. E. L. Kelly. il Burroughs Clearing House 26:11-13+ Jl '42
Housing for war workers; First trust and deposit company of Syracuse, modernization plans. il Banking 34:56-7 Je '42
Let's teach people to borrow—at the banks; every person should have a family banker to consult about financial problems. F. L. O'Hair. Bankers Mo 58:544+ D '41
Millions who handle billions; consumer credit and budgeting service. R. H. Whitehead. Bankers M 144:208-10 Mr '42
New wrinkles; check-credit plan of Merchandise national bank of Chicago; designed to meet the needs of small wage earner, provides automatic credit extension. Barron's 22:5 Ap 20 '42

BANKS and bankinug—Service—*Continued*

Payroll savings plan of Union dime savings bank of New York. il Banking 34:78 Je '42

Protection of evacuees' interests by the Federal reserve bank of San Francisco. Fed Res Bul 28:321-2 Ap '42

Small business needs a friend. T. H. Reed. Banking 35:17-19, 50 Jl '42

Speed wartime production; 1001 things for banks to do. il Banking 34:19-24+ Ap '42

Speeding up the cashing of pay checks. il Burroughs Clearing House 26:3 D '41

Victory fund program for banks. G. C. Helm. il map Burroughs Clearing House 27:16-18+ O '42

War bond pay days; plan of Farmers & mechanics savings bank of Minneapolis. Banking 34:36 My '42

War comes to the banker. F. C. Wiegman. Am Inst Banking Bul 24:8-9 Jl '42

War services. il maps Banking 35:17-23 sec 2 Jl '42

Wartime responsibilities of banks. H. W. Koeneke. Comm & Fin Chr 155:1051 Mr 12 '42

See also

Banks and banking—Automobile parking service

Checks

Service charge

Activity charge for savings accounts. H. A. Berghof. Bankers M 144:406-8 My '42

Conversion of commercial bank funds; service charge technique. H. E. Zarker. Bankers M 144:217-23 Mr '42

Every account analyzed; State bank and trust co., Evanston, Ill. L. E. Solem. Bankers Mo 58:541-3+ D '41

Future of the service charge. E. L. Stucker. Bankers M 145:113-22 Ag '42

Income from service charges increasing. Bankers M 145:171-2 Ag '42

New emphasis on service charges; Suburban trust and savings bank, Oak Park, Ill. F. B. Peake. il Burroughs Clearing House 26:16-18+ S '42

Service charges in service contracts. Banking 35:63 Ag '42

Service charges in South Dakota. Bankers M 145:166-7 Ag '42

We read your article on fees: Fees are important in today's earnings. Bankers Mo 59:23-4+ Ja '42

See also

Banks and banking—Checking accounts

Service to government

Service pay for banks; government compensation. Banking 35:10+ N '42

See also

Banks and banking—Ration coupon handling

Show windows

Bank window displays. E. A. Dench. Banking 35:62 Ag '42

California bank links newspaper ads, window displays. il Burroughs Clearing House 26:7 N '41

How to design or choose bank window displays. R. E. Doan. il Bankers M 144:112-16, 118 F '42

Statements of condition

See Banks and banking—Reports

Statistics

All banks in the United States; principal assets and liabilities, by districts and by states, June 29, 1940 and June 30 and Sept. 24, 1941. Fed Res Bul 28:69-73 Ja '42

All member banks; classification of loans, investments, real estate, and capital on Dec. 31, 1941 by classes of banks. Fed Res Bul 28:378 Ap '42

All member banks; classification of loans, investments, real estate, and capital on June 30, 1942 by classes of banks. Fed Res Bul 28:964 S '42

All member banks; condition on June 30, 1942 by classes of banks. Fed Res Bul 28:963 S '42

All member banks; condition on selected call dates, March 31, 1937, to April 4, 1942; condition on April 4 by classes of banks. Fed Res Bul 28:606-7 Je '42

All member banks; condition on September 24, 1941, by classes of banks. Fed Res Bul 27:1280 D '41

All member banks; condition on Dec. 31, 1941 by classes of banks. Fed Res Bul 28:377 Ap '42

Bank credit and war finance. Fed Res Bul 28:525-31 Je '42

Banking developments, 1941. Survey of Cur Business 22:60-2 F '42

Banks and branches, number of banks in operation and number operating branches or additional offices, December 31, 1940 and 1941. Fed Res Bul 28:604 Je '42

Banks and branches, number of branches or additional offices, December 31, 1940 and 1941. Fed Res Bul 28:605 Je '42

Banks in the war. il maps Banking 35:1-24 sec 2 Jl '42

Banks participating in sale of defense savings bonds, by states, as of February 28, 1942. Fed Res Bul 28:323 Ap '42

Changes in number of banks and branches in the United States, 1941. Fed Res Bul 28:171 F '42

Changes in number of banks and branches in the United States, Jan.-June 1942. Fed Res Bul 28:962 S '42

Chase National largest bank in English-speaking world; other leading banks. Bankers M 144:438 My '42

Commercial banks; United Kingdom, Canada, France; assets and liabilities, yearly Dec. 1932-1939 and monthly Nov. 1940-Oct. 1941. Fed Res Bul 28:88 Ja '42 [cont monthly]

Condition of insured commercial banks in United States and possessions, Dec. 31, 1941 and June 30, 1941. Fed Res Bul 28:602 Je '42

Condition of national banks, June 30, Sept. 24, Dec. 31, 1941, and April 4, 1942. Comm & Fin Chr 155:2402 Je 25 '42

Net capital movement to United States since Jan. 2, 1935. Fed Res Bul 28:512 My '42 [cont monthly]

Number and deposits of banks in 37 groups, and number of branches of group banks, December 31, 1941. Fed Res Bul 28:603 Je '42

Wartime desk charts for bankers. J. L. Kolb. Banking 34:30-1 Je '42

Weekly reporting member banks, by Federal reserve districts; loans and investments, reserves and liabilities. Published in monthly numbers of Federal reserve bulletin

Weekly reporting member banks, New York city and outside; loans and investments, reserves and liabilities. Published in monthly numbers of Federal reserve bulletin

See also

Bank clearings

Bank debits

Bank deposits

Stock

Are New York bank stocks underpriced? H. W. Abbot. Barron's 22:18 Jl 13 '42

Bank stock market sharply lower; dividend reduction by Bankers trust co. surprises Street. Barron's 22:13+ Mr 9 '42

Bank stock offered; Pennsylvania company for insurance on lives and granting annuities. Comm & Fin Chr 154:1233 N 27 '41

Bank stocks. Published in weekly numbers of Barron's

Bank stocks; earnings of New York City banks, 1940 and 1941. Comm & Fin Chr 155:206 Ja 15 '42

Bank stocks; effects of New York City cost of living bonuses and increased taxes. Comm & Fin Chr 154:1110 N 20 '41

Bank stocks; entry into World war II and the future of interest rates, etc. Comm & Fin Chr 154:1542 D 18 '41

BANKS and banking—Stock—*Continued*

Bank stocks; reduction in dividend rate by leading bank. Comm & Fin Chr 155:1030 Mr 12 '42

Position of leading bank stocks; table. Mag of Wall St 71:131 N 14 '42

RFC permits banks to defer stock payment. Comm & Fin Chr 156:1560 O 29 '42

What's the matter with the bank stocks? New York City bank stocks as 1941 closes. Comm & Fin Chr 155:6 Ja 1 '42

Stockholders

Bank stocks; trend among larger banks toward more complete reports of earnings. Comm & Fin Chr 155:654 F 12 '42

Bank's lien on stock; debts owing by stockholders. C. R. Rosenberg, jr. Burroughs Clearing House 26:27 N '41

Suggests banks send proxy statements. L. Criscuolo. Comm & Fin Chr 154:1426 D 11 '41

Who owns the banks? A. W. Atwood. Banking 34:24-5+ Mr '42

Study and teaching

Closer to the job; benefits from American institute of banking educational courses. P. Greever. Banking 34:70 Mr '42

Course for new bankers; American institute of banking's new textbook. il Banking 35:79 O '42

New mine of bank facts; theses of students of the Graduate school of banking. J. L. Cooley. Banking 35:86-7 N; 83 D '42

Taxation

Bank stocks; pending Revenue bill of 1942. Comm & Fin Chr 156:878 S 10 '42

Curious case of bank taxation; District of Columbia assessment against Federal Reserve Board building in Washington. Bankers M 144:2+ Ja '42

Tellers' departments

Check cashing on paydays. Banking 35:46 N '42

3 = 7; saving tellers' time by use of special rubber stamps. L. K. Hofmann. il Am Inst Banking Bul 24:19 Ap '42

Terminology

What does a voucher vouch? some origins of words and expressions used in banking. E. J. Kilduff and R. F. Brosius. il Banking 34:28-9 F; 66-7 Mr '42

Transit operations

Our sorting clerks have less to learn. L. K. Curry. il Bankers Mo 59:62+ F '42

Trust departments

Auditing the trust department. E. P. Neilan. Bankers M 145:26-8, 30-1 Jl '42

Battle of the budget; putting the case for trust advertising before bank's executive officers. A. Journeay. Trusts & Estates 74:577-80 Je '42

Common trust funds for smaller trust departments? C. W. Fenninger. Trusts & Estates 74:181 F '42

Common trusts in Pennsylvania. C. R. Rosenberg, jr. il Burroughs Clearing House 26:20-2+ D '41

Dangers of the part-time trust department. A. C. Lueder. Bankers M 145:221-3 S '42

Full time service or none; Illinois banking department shows dangers of inexperience. Trusts & Estates 75:161-2 Ag '42

Functional trust department auditing; opportunities for constructive service by auditor. F. E. Mewborn. Trusts & Estates 74:287-91 Mr '42

How auditors can assist in trust administration. E. P. Neilan. Trusts & Estates 74:598-600 Je '42

Pattern for suburban trusteeship; approach to new business for smaller banks. C. M. Eldridge. Trusts & Estates 75:35-9 Jl '42

Profitable and popular service; call to cooperative action in clearing away major obstacles to efficiency or personal trusteeship. Trusts & Estates 73:523-7 N '41

Reappraising trust serviceability; problems of the small trust department. C. H. Doolittle. Trusts & Estates 73:531-5 N '41

Special trust service meets wartime needs; Security-first national bank in Los Angeles. Burroughs Clearing House 26:9-10 S '42

Trends in auditing trust department. R. C. Huelsman. Trusts & Estates 74:509-10 My '42

Trust business of national banks; fiduciary activities show increase over 1940. Trusts & Estates 74:257-8 Mr '42

Trust functions as source of bank earnings; statistics prove stability of trust department income. A. J. Zoller. Trusts & Estates 75:159-60 Ag '42

Trust question box. Banking 35:120-7 S '42; Abstract. Trusts & Estates 75:229-30 S '42

Urges reduction of trust operating costs; abstract. R. M. Kimball. Bankers M 144:177 F '42

See also

American bankers association—Trust division

Trust companies

Trusts and trustees

Africa

Dominion joint stock banks with London offices. Economist 143:sup38-9 S 19 '42

Argentina

Annual report of the Central bank of the Argentine Republic, 1941. Fed Res Bul 28:892-910 S '42

1941 report of Bank of the nation. For Comm W 7:16 My 23 '42

Australasia

Australasian banks with London offices. Economist 143:sup16, 38-9 S 19 '42

Bank of Australasia annual general meeting, 108th, London. Economist 142:407-8 Mr 21 '42

Australia

Australian banking control. Economist 141:629-30 N 22 '41

Bank of New South Wales, ordinary general meeting, Sydney. Economist 142:202 F 7 '42

Mortgage bank for Australia. Economist 143:339 S 12 '42

Balkan states

German Europe; banks in the Balkans. Economist 142:190 F 7 '42

Bolivia

Bank for agriculture opens. For Comm W 9:16 O 3 '42

Establishment of agricultural bank. For Comm W 6:14 Mr 28 '42

Report of Central bank. For Comm W 6:6-7 Ap 4 '42

Brazil

New bank for financing rubber. For Comm W 8:12 Ag 1 '42

California

Defense area banking around Los Angeles. J. H. Collins. il Burroughs Clearing House 26:13-15 F '42

Canada

Annual report of the Bank of Canada. Fed Res Bul 28:220-1 Mr '42

Annual reports reflect wartime changes. Burroughs Clearing House 26:37-8 Ja '42

Canada bank earnings up; Bank of Canada annual report. G. F. Towers. Comm & Fin Chr 155:861 F 26 '42

Canada's exchange control in action. J. Montagnes. il Burroughs Clearing House 26:24-5+ N '41

Canadian bank of commerce, annual meeting, Toronto. Bankers M 144:61-3 Ja '42

Canadian bank of commerce annual statement. Comm & Fin Chr 154:1333 D 4 '41

Canadian banking. J. Montagnes. Published in monthly numbers of Burroughs Clearing House

Canadian banking. E. L. S. Patterson. rev ed 338p $4.50 Ryerson press '41

BANKS and banking—Canada—*Continued*

Canadian banking; steps taken to meet growing personnel problem. J. Montagnes. il Burroughs Clearing House 26:28+ My '42

Canadian banks to cut dividends. Comm & Fin Chr 156:374 Jl 30 '42

Canadian banks with offices in London. Economist 143:sup17, 38-9 S 19 '42

Commercial banks; assets and liabilities, yearly Dec. 1932-1939 and monthly Nov. 1940-Oct. 1941. Fed Res Bul 28:88 Ja '42 [cont monthly]

How Canada finances victory. C. M. Short. Banking 34:28+ Ja '42

How Canadian banks are economizing. Bankers M 145:169-70 Ag '42

Royal bank of Canada shows large gains in annual balance sheet. Comm & Fin Chr 155:5 Ja 1 '42

See also

Bank of Montreal

China

Banking in Shanghai under Japanese rule. Economist 143:243 Ag 22 '42

Cuba

Report to the Cuban government of the American technical mission to Cuba. Fed Res Bul 30:774-801 Ag '42

Dominican Republic

Creation of Reserve bank. For Comm W 5:20 N 15 '41

In the West Indies. M. Ruz Rivas. Burroughs Clearing House 26:1-2 F '42

Egypt

National bank of Egypt 42d ordinary general meeting, Cairo. Economist 142:517 Ap 11 '42

Far East

Eastern banks. Economist 142:687-8 My 16 '42

Far Eastern banks. Economist 142:296 F 28 '42

France

Commercial banks; assets and liabilities, yearly Dec. 1932-1939 and monthly Jan.-March 1940. Fed Res Bul 28:88 Ja '42 [cont monthly]

French banques d'affaires. Economist 142:835 Je 13 '42

Germany

Banks in 1941. Economist 142:719 My 23 '42

Reichsbank, 1939-1941. Economist 142:684 My 16 '42

Great Britain

Bank clearings in 1941. Economist 142:45-6 Ja 10 '42

Banks in the dock. Economist 143:441-2 O 10 '42

Banks in transition. Economist 142:228-9 F 14 '42; Excerpts. Trusts & Estates 74:242 Mr '42

Bowler hat; a last glance at the old country banking. R. H. Mottram. 255p 12s 6d Hutchinson & co, London '40

British bank liquidity. Bankers M 144:338-9 Ap '42

British banking information; new cooperative service emphasizes social values. A. V. Barber. Trusts & Estates 75:145-6 Ag '42

Chartered bank of India, Australia and China 88th ordinary general meeting, London. Economist 142:442 Mr 28 '42

Commercial banks; assets and liabilities, yearly Dec. 1932-1939 and monthly Nov. 1940-Oct. 1941. Fed Res Bul 28:88 Ja '42 [cont monthly]

Concentration in banking. Economist 141:792 D 27 '41

Coupon banking in force; responsibility of banks. Economist 142:898-9 Je 27 '42

Economist banking supplement. Economist 143:sup3-45 S 19 '42

English approach to the distribution of securities. M. E. Murphy. J Business 14:372-83 O '41

Grip of gilt-edged. Economist 142:191-2 F 7 '42

Growth of liquidity. Economist 142:152-3 Ja 31 '42

Industrial banking. Economist 141:sup5-6 S 20 '41; Same abr. Bankers M 143:442 N '41

News from England. il Am Inst Banking Bul 24:14-15 Ja; 12-13 Ap; 14-15 Jl; 10-11 O '42

Ration banking in Britain. E. H. Collins. il Banking 35:23 N '42

Ration card banking; Britain's coupon banking. F. B. Makin. Banking 35:22-3+ Jl '42

Service under war-strain. W. W. Syrett. Burroughs Clearing House 26:2 D '41

Some war experiences of the British banks. R. M. Binney. Bankers M 145:123-8+ Ag '42

Supremacy of bank investments. Economist 141:sup3-4 S 20 '41; Same abr. Bankers M 143:430-2 N '41

Wartime developments in British finance. For Comm W 6:6 Ja 3 '42

Window dressing. Economist 143:337-8 S 12 '42

Window-dressing in August. Economist 143:422-3 O 3 '42

See also

Bank of England
Bank of London and South America
Barclays bank (Dominion, colonial and overseas)
Barclays bank, limited
District bank, limited
Lloyds bank
Martins bank
Midland bank
National provincial bank
Westminster bank
Williams Deacon's bank

Greece

German banks in Greece. Economist 141:388 S 27 '41; Same. Bankers M 143:515 D '41

Hongkong, China

Bankers in Hongkong. Banking 35:52-3 N '42

India

Indian banks with offices in London. Economist 143:sup16, 38-9 S 19 '42

Mercantile bank of India; National bank of India; statements by the chairmen. Economist 142:660, 662 My 9 '42

Ireland

Central bank for Eire. Economist 142:362-3 Mr 14 '42

Eire; Central bank proposed. Bankers M 144:424-6 My '42

Eire's Central bank bill. Economist 143:172-3 Ag 8 '42

Irish bank bill discussions. Economist 143:514 O 24 '42

Irish banking difficulties. Economist 141:534 N 1 '41

Irish banking liquidity. Economist 143:334-5 S 12 '42

Joint stock banks of Ireland. Economist 143:sup14-15, 17, 34, 36-7 S 19 '42

London

Decline in London bank deposits. Bankers M 145:53 Jl '42

Foreign banks with London offices and British banks trading abroad. Economist 143:sup41-3 S 19 '42

Mexico

Requirement that reserves of the Mexican banks be raised. Bankers M 145:54-5 Jl '42

New Jersey

Directory of New Jersey banks, 1804-1942. W. H. Dillistin, comp. 98p New Jersey bankers assn, A. H. Coate, sec, Morristown, N.J. '42

New York (city)

Are New York bank stocks underpriced? H. W. Abbot. Barron's 22:18 Jl 13 '42

Bank stocks; earnings of New York city banks, 1940 and 1941. Comm & Fin Chr 155:206 Ja 15 '42

BANKS and banking—New York (city)—*Cont.*

Bank stocks; indicated earnings of New York city banks for first quarter, 1942. Comm & Fin Chr 155:1430 Ap 9 '42

Bank stocks; indicated profits of 24 leading banks, first and second quarters. Comm & Fin Chr 156:174 Jl 16 '42

Bank stocks; New York city banks 1941 experience. Comm & Fin Chr 155:1230 Mr 26 '42

Decline in excess reserves; loss of funds by New York banks. Nat City Bank p140-1 D '41

Decline in New York City bank deposits. J. H. Riddle. Comm & Fin Chr 154:1245 N 27 '41

Drain on Gotham; New York banks feel pressure of war financing. Business Week p78+ Jl 11 '42

New York City banks' indicated earnings per share, second quarter 1939-1942, and years ending June 30, 1939-1942. Barron's 22:18 Jl 13 '42

Position of the New York market. Nat City Bank p88-9 Ag '42

Taxes reduce bank earnings; indicated net showings for the March quarter generally lower. Barron's 22:18 Ap 13 '42

Third quarter bank earnings mixed. Barron's 22:4 O 12 '42

See also

Bank of Manhattan company
Chase national bank of New York
Guaranty trust company of New York
Irving trust company
Manufacturers trust company
Morgan, J. P., and company
National city bank of New York

New York (state)

Record deposits of New York state banks and trust companies reported by White. Comm & Fin Chr 155:441+ Ja 29 '42

Ohio

Banking operations in Ohio, 1920-1940. J. M. Whitsett. 217p $2.50 Ohio state univ, Columbus '41

Paraguay

Bank of Brazil to open agency in Asuncion. For Comm W 5:17 N 22 '41

Peru

Banco Italiano name altered to Banco de credito del Peru; capital and reserves. Bankers M 144:235+ Mr '42

Russia

Soviet banking. Economist 143:sup6-8 S 19 '42

Scotland

Bank of Scotland annual general meeting, Edinburgh. Economist 142:515-16 Ap 11 '42

Commercial bank of Scotland, limited, annual meeting, Edinburgh. Economist 141:798-9 D 27 '41

Joint stock banks of Scotland. Economist 143: sup14-15, 17, 28, 30, 32 S 19 '42

National bank of Scotland limited, 116th annual general meeting. Economist 141:765 D 20 '41

Royal bank of Scotland annual general court of proprietors, Edinburgh. Economist 141: 700-1 D 6 '41

Union bank of Scotland; annual meeting of shareholders. Economist 142:661 My 9 '42

South Africa

Standard bank of South Africa 129th ordinary general meeting, London. Economist 143: 282-3 Ag 29 '42

Switzerland

Annual report of the Swiss national bank, 1941. Fed Res Bul 28:649-61 Jl '42

United States

A.B.A. convention highlights-in-print. Burroughs Clearing House 26:14-15+ S '42; Bankers M 145:341-62 O '42

Bank systems differ, but principles remain the same. il Bankers Mo 59:102-5+ Mr '42

Banker goes to war! F. M. Law. Bankers M 145:218-20 S '42

Banking studies, by members of the staff, Board of governors of the federal reserve system. 496p $1.50 Federal reserve system board of governors, Washington, D.C. '41

Banking system in the national crisis. H. W. Koeneke. Comm & Fin Chr 155:460+ Ja 29 '42

Constructive banking cooperation with government financing; proceedings of the fourth annual Michigan bankers association study conference, Ann Arbor, Dec. 4-5, 1941. R. G. Rodkey, ed. 67p pa $1 Univ. of Michigan, School of business administration, Bur. of business research, Ann Arbor '42

Eye on foreign funds; how banks are helping make freezing control effective. H. M. Bratter. il Banking 34:23-4+ D '41

Eyes front! banking's plan for the future. P. F. Cadman. Banking 34:28-9+ My '42

Impact of war on banking. M. Cavanagh. il Banking 34:68-70 Ja '42

New era in US banking. Economist 143:sup8-10 S 19 '42

1942 market for bank services. I. I. Sperling. Banking 34:58 Ja '42

Our modern banking and monetary system. R. G. Thomas. 812p $5.35; school ed $4 Prentice-Hall '42

Post-war problems of banking; abstract. M. Nadler. Bankers M 143:456-7 N '41

Post-war tests of financial abilities; picture of 1942 in the banking business. V. Cullin. Comm & Fin Chr 155:677 F 12 '42

Review of the month. Published in monthly numbers of Federal reserve bulletin

Revisions in the bank system; new and reopened institutions, banks and branches reported discontinued, changes in titles and/or locations. Published in monthly numbers of Bankers monthly

Statement of the Economic policy commission, American bankers association: banker in wartime. Banking 34:79 Mr '42

United States at war. W. W. Aldrich. Bankers M 144:157-9 F '42

War-time responsibility of banks; abstract. H. W. Koeneke. Bankers M 144:365-6 Ap '42

Washington outlook. A. L. M. Wiggins. Banking 35:32+ S '42

See also

Banking law—United States
Banks and banking, National
Export-import bank of Washington
Federal reserve banks
Home loan banks
Land banks
Reconstruction finance corporation

Bibliography

Bibliography of histories of specific banks. J. A. Muscalus. 16p pa 50c J. A. Muscalus, Box 185, Bridgeport, Pa. '42

United States (territories)

Banks in United States territories and possessions. Fed Res Bul 27:1226-8 D '41

Venezuela

Operations of Workers' bank. For Comm W 8:17 S 26 '42; Same. Bankers M 145:430 N '42

Wisconsin

Country banking in Wisconsin during the depression. F. L. Garlock. diags U S Agric Tech Bul 777:1-112 '41

BANKS and banking, International

Post-war prosperity possible if world currencies are stabilized. C. M. Wynne. Bankers Mo 59:5-7 Ja '42

BANKS and banking, National

ABA reports higher national bank profits, year ended June 30, 1941. Comm & Fin Chr 154:1344 D 4 '41

Condition of national banks, June 30, Sept. 24 and Dec. 31, 1941, and April 4, 1942. Comm & Fin Chr 155:2402 Je 25 '42

Conversion of commercial bank funds; plan to provide for liquidity and flexibility of funds and the stabilization of profits in commercial banking. H. E. Zarker. Bankers M 143:485-98 D '41

BANKS and banking, National—*Continued*
Member bank earnings and expenses, 1941; National banks, by size of bank. Fed Res Bul 28:716 Jl '42
National bank assets up; loans show decline; figures for June 30. Comm & Fin Chr 156: 893 S 10 '42
National bank earnings were higher in 1941. Comm & Fin Chr 155:2130 Je 4 '42
National banks gross earnings in first half of 1942. Comm & Fin Chr 156:1192 O 1 '42
National member banks; principal assets and liabilities, by states, June 29, 1940 and June 30 and Sept. 24, 1941. Fed Res Bul 28:71 Ja '42
Trust business of national banks; fiduciary activities show increase over 1940. Trusts & Estates 74:257-8 Mr '42

BANKS and banking, Private
Private banks; principal assets and liabilities, by states, June 29, 1940 and June 30 and Sept. 24, 1941. Fed Res Bul 28:73 Ja '42

BANKS and banking, State
ABA completes survey of state banks. Comm & Fin Chr 156:384 Jl 30 '42
Condition and operation of state banks in 1941; survey of resources, liabilities, earnings and expenses. 72p Research council, Am. bankers assn, 22 E. 40th st, New York '42
Member bank earnings and expenses, 1941; state member banks, by size of bank. Fed Res Bul 28:717 Jl '42
State banks; principal assets and liabilities, by states, June 29, 1940 and June 30 and Sept. 24, 1941. Fed Res Bul 28:72 Ja '42

BANTING research foundation
Grants made by the Banting research foundation. V. E. Henderson. Science 95: 329-30 Mr 27 '42

BAOBAB
Soap, fibers, oils and food from the baobab tree. C. D. Mell. Textile Col 64:273-4 Je '42

BARBALOIN
Barbaloin. L. N. Owen and J. L. Simonsen. Am Chem Soc J 64:2516 O '42

BARBER asphalt corporation
Stockholders approve entry into shipbuilding, also vote purchase of tanker; other proposals held up by court action. Comm & Fin Chr 156:1464-5 O 26 '42

BARBER shops

Lighting

Better light for barbering. M. Shoop. il Elec W 117:1390 Ap 18 '42
Light for a barber shop. il Elec West 88:60 Ap '42

BARBITURATES
Barbiturates containing large radicals. G. S. Skinner and A. P. Stuart. bibliog Am Chem Soc J 63:2993-4 N '41

BARBITURIC acid
Acid amides as hypnotics; barbituric acids. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2991-3 N '41
α-Alkoxyvinyl- and α-alkoxyethylbarbituric acids. S. M. McElvain and H. Burkett. Am Chem Soc J 64:1831-6 Ag '42
5-Ethyl-5-(α-thienyl)-barbituric acid. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2945-6 N '41
Some N-substituted barbituric acids. J. S. Buck, W. S. Ide and R. Baltzly. Am Chem Soc J 64:2233 S '42

BARCLAYS bank (Dominion, colonial and overseas)
Progress in difficult year; statement by Sir John Caulcutt. Economist 141:704 D 20 '41

BARCLAYS bank, limited
Ordinary general meeting, 47th, London; statement by the chairman. E. Fisher. Economist 142:85-7, 88 Ja 17 '42

BARGE lines
Inland waterway carriers. H. Kelso. J Land & Pub Util Econ 18:58-66 F '42
Wartime and the river; barge traffic on the Mississippi River system. il map Fortune 26:68-75+ Jl '42

See also
River traffic

BARGES
Drilling in swamp area of Louisiana Gulf coast simplified by use of barges. C. C. Pryor. il diags Pet Eng (Annual no) 13: 122, 124, 126 [Jl] '42
Field office goes for a boat ride; New York Tunnel Authority building moved by barges. il diags Eng N 127:905 D 25 '41
Old time methods used in wood barge construction. il Eng N 129:187 Ag 6 '42
Seventy-eight firms submit bids to build 450 wooden barges. Marine Eng 47:166 Mr '42
U.S. buys barges. Business Week p26-7 Jl 18 '42

BARGES, Concrete
First concrete barge takes to the water. il Eng N 129:535 O 22 '42
Keels laid for Maritime commission's concrete barges. il Eng N 128:885 My 28 '42
Possibilities of the concrete boat. L. Kauf. bibliog il Concrete 50:2-4 My '42

BARIT, A. Edward, 1890-
Portrait. Mach 48:117 Mr '42

BARITE
Barite production likely to expand hundredfold. Can Chem & Process Ind 25:596 N '41
Barytes in Ireland. Can Chem & Process Ind 26:278 My '42
British barytes producers' association 1st annual report. Chem Age (Lond) 47:364 O 24 '42
New Riverside, producer of barytes in Georgia. A. H. Hubbell. flow sheet il Eng & Min J 143:62-5 O '42
Nova Scotia barytes. Can Chem & Process Ind 26:22 Ja '42

See also
Barium sulfate

BARIUM
Co-precipitation of radium and barium salts as a function of temperature and acidity. W. B. Pietenpol. J Chem Phys 10:211-14 Ap '42

Analysis

Analytical use of sodium rhodizonate. F. Feigl and H. A. Suter. bibliog Ind & Eng Chem Anal ed 14:840-2 O 15 '42

BARIUM alloys
Alkaline earth metals and their alloys; increasing technical importance. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 47:107-11 Ag 1 '42

BARIUM carbonate
Decomposition temperatures of some analytical precipitates; barium carbonate. M. L. Nichols and R. H. Lafferty, jr. bibliog Ind & Eng Chem Anal ed 14:481-5 Je 15 '42

BARIUM chloride
Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

BARIUM hydroxide
Alkaline hydrolysis of fluorenone-spirohydantoin. W. H. McCown and H. R. Henze. bibliog Am Chem Soc J 64:689-90 Mr '42

BARIUM nitrate
Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

BARIUM oxide
Effect of barium oxide and zinc oxide on properties of soda-dolomite lime-silica glass. bibliog Am Cer Soc J 25:61-9 F 1 '42

BARIUM perchlorate
Barium perchlorate; electrolytic preparation method. Chem Age (Lond) 67:268 S 19 '42

BARIUM sulfate

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42

Barium sulfate reaction; abstract. F. J. Williams. Brick & Clay Rec 100:44+ My '42

Carbohydrate sulphuric esters; the isolation of 3:6-anhydromethylhexosides from methylhexopyranoside sulphates. R. B. Duff and E. G. V. Percival. Chem Soc J p830-3 D '41

Settling and thickening of aqueous suspensions. K. Kammermeyer. bibliog il Ind & Eng Chem 33:1484-91 D '41

Spectrographic studies of coprecipitation; fourth-period elements with barium sulfate, and copper and zinc with lead sulfate. L. Waldbauer, F. W. Rolf and H. A. Frediani. bibliog Ind & Eng Chem Anal ed 13:888-9 D 15 '41

See also

Barite

BARK

Pulpwood barking methods, 1900-1942. R. W. Sterns. bibliog(48 titles) Pulp & Pa of Can 43:576-8+ Jl '42

See also

Bast fibers

BARK beetles

New bugs in Gaspe forest; dendroctonus piceaperda Hopk; a detrimental or beneficial insect? A. R. Gobeil. bibliog Pulp & Pa of Can 42:730-4+ N '41

BARK peeling

Barking of long logs in saw-log form. diags Pulp & Pa of Can 42:776 D '41

Pulpwood barking methods, 1900-1942. R. W. Sterns. bibliog(48 titles) Pulp & Pa of Can 43:576-8+ Jl '42

BARLEY

Effect of Ca and other divalent ions on the accumulation of monovalent ions by barley root cells. F. G. Viets, jr. Science 95:486-7 My 8 '42

Nation's food; cereals as food; the chemical composition and nutritive value of maize, rice, rye, and barley. W. P. Ford. bibliog Chem & Ind 60:875-8 D 13 '41

Waxy starch of maize and other cereals; a possible competitor for tapioca. R. M. Hixon and G. F. Sprague. bibliog il Ind & Eng Chem 34:959-62 Ag '42

Statistics

Chilean barley production in 1942. For Comm W 6:26 Mr 28 '42

BARNES, A. S., and company

Personal recollections, sixty years of book publishing. J. B. Pratt. 67p 50c A. S. Barnes and co, New York '42

BARNES, Gladeon Marcus, 1887-

Sketch. por Steel 111:161 O 5 '42

BARNETTE, L. T.

New editor of Modern plastics. por Mod Plastics 19:51 N '41

BARNS and stables

Dairy-barn improvements offer big market to concrete contractors. diags Concrete 50:11+ S '42

Help farm program by rebuilding barns with clay tile walls. J. M. Anderson. il Brick & Clay Rec 100:24-5 Je '42

$900 rebuilds old barn with clay tile walls. il diags Brick & Clay Rec 101:18-20 Ag '42

BARNSDALL oil company

Annual report. Comm & Fin Chr 155:1403 Ap 6 '42

Thumbnail stock appraisal. Mag of Wall St 69:321 D 27 '41

BARRACKS

Barracks for shipment. il diags plans Arch Forum 76:91-5 F '42

Buildings for the Caribbean area. il diag plans Arch Forum 77:46-8 Jl '42

Prefabricated buildings house U.S. troops in tropics or arctic. Arch Rec 91:24 Ap '42

Projected construction: types of housing suitable for use in semitropical areas. il plans Arch Forum 77:39 Jl '42

Stovepipe forms speed winter concreting; foundations for 150 barracks and officers' quarters at three New England projects. il Eng N 129:346-7 S 10 '42

War-front type barracks built in record time. il Eng N 129:90-1 Jl 16 '42

See also

Military training camps

BARRAGE balloons. See Balloons, Military

BARRAGES. See Dams

BARRELS

Collapsible barrel for bulk materials, saves shipping space. il Sci Am 167:172 O '42

Cooper stages a comeback; plywood collapsible barrel for tobacco, etc. A. M. Hoffmann. il Comp Air M 47:6819-20 Ag '42

Germans devise new plywood barrel. For Comm W 7:29 Je 27 '42

Proper handling of wooden barrels. R. W. Lahey. Chem Ind 51:379-80 S '42; Abstract. il Power Pl Eng 46:94-5 Ap '42

Repitched barrels for beer. il Mod Packaging 16:69+ S '42

Things you should know about barrels. G. T. Dyer, jr. il Food Ind 14:64-5 Ag '42

Wood barrel production increasing. R. W. Lahey. Chem Ind 49:819 D '41

BARRELS, Steel

Drums. T. W. Floyd. Paint Oil & Chem R 103:30-1 D 4 '41

Steel barrels given resistant lining; infrared baking tunnels dry sanitary liners. il Elec W 116:1746+ N 29 '41

Prices

Rolling the barrels; OPA ceiling on used steel drums and OPM drive to substitute wood. Business Week p32 D 6 '41

Used steel drum price ceiling set by OPA; effective Dec. 1. Nat Pet N 33:13 N 26 '41

BARRIGER, John Walker, 3d, 1899-

Barriger joins Eastman staff. por Ry Age 112:349 F 7 '42

BARROIS, Charles, 1851-1939

Memorial. C. Schuchert. por pl Geol Soc Proc 1941:145-57 bibliog(p 150-7) Mr '42

BARROWS, Arthur Stanhope, 1884-

Portrait. Business Week p91 S 5 '42

Sears, Roebuck's new president. por Barron's 22:4 S 7 '42

BARRYMORE, John, 1882-1942

Tribute. Weekly Underw 146:1272 Je 6 '42

BARS and bar rooms

Interior details: bar and recreation room. il plans Arch Rec 92:56 S '42

St Louis hotel remodels roof bar and dining space; Chase Hotel cocktail lounge and Starlight roof. il diags plan Arch Rec 91:72-4 F '42

BART reaction

Diazonium borofluorides; their use in the Bart reaction. A. W. Ruddy, E. B. Starkey and W. H. Hartung. bibliog Am Chem Soc J 64:828-9 Ap '42

BARUCH report. See Rubber

BARYTES. See Barite

BASCULE bridges. See Bridges, Bascule

BASE exchanging compounds

Base-exchange and sulphate reduction in salty ground waters along Atlantic and Gulf coasts. M. D. Foster. bibliog Am Assn Pet Geologists Bul 26:838-51 My '42

Coal for water purification; abstract. D. Bogard. Coal Age 47:159-60 O '42

Concentration of dilute solutions of electrolytes by base-exchange materials; zeolites for recovery of metal ions. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41

Effect of exchangeable bases on some properties of ball clays. M. D. Burdick, W. W. Meyer and T. A. Klinefelter. flow sheet graphs Am Cer Soc J 25:327-36 Ag 1 '42

Fundamental study of clay; casting as a base exchange phenomenon. A. L. Johnson and F. H. Norton. bibliog diags Am Cer Soc J 25:336-44 Ag 1 '42

BASE exchanging compounds—*Continued*
Fundamental study of clay; surface area and its effect on exchange capacity of kaolinite. A. L. Johnson and W. G. Lawrence. bibliog Am Cer Soc J 25:344-6 Ag 1 '42
Ionic competition in base-exchange reactions. R. H. Bray. bibliog Am Chem Soc J 64:954-63 Ap '42
Production of a palatable artichoke sirup; application of organic exchangers. D. T. Englis and H. A. Fiess. bibliog Ind & Eng Chem 34:864-7 Jl '42

BASEBALL
Curve of a baseball; abstract. F. L. Verwiebe. Science 95:sup8 My 29 '42

BASEMENTS
Cure for damp basements. il Sheet Metal Worker 33:32 My '42
Heat loss through basement walls and floors. F. C. Houghten and others. il diags Heating-Piping 14:69-74 Ja '42; Abstract. Sheet Metal Worker 33:58-9 Ag '42; Discussion. Heating-Piping 14:271-2 Ap '42
How to build a basement cold storage room. diags plans Am Bld 64:63 Je '42

BASES (chemistry)
Acids and bases in organic chemistry. D. Davidson. J Chem Educ 19:154-60 Ap '42
Acids and bases; their relationship to oxidizing and reducing agents. W. F. Luder. bibliog J Chem Educ 19:24-6 Ja '42
Indicator method of classifying acids and bases in qualitative organic analysis. D. Davidson. bibliog J Chem Educ 19:221-6 My '42; Correction. 19:532 N '42
*Iso*oxazolidine and tetrahydro-1 : 2-*iso*oxazine. H. King. Chem Soc J p432-3 Jl '42

See also
Alkalies
Alkaloids
Amines
Indicators and test papers
Nitrogen compounds
Volumetric analysis

BASKET making
Basket pioneering; a popular hand-book containing concise basketry directions with clear simple diagrams. O. P. Couch. rev ed 163p $1.75 Orange Judd pub. co, New York '40

BAST fibers
Ersatz: U.S.A. model; redwood-bark fiber. il Textile World 92:96 F '42
Microscopic structure of flax and related bast fibers. C. W. Hock. bibliog il Am Dyestuff Rep 31:334-42 Jl 6 '42; Same. J Research Nat Bur Stand 29:41-50 Jl '42
Purifying vegetable fibers. C. H. S. Tupholme. Textile Col 64:347 Jl '42

See also
Flax
Hemp
Jute
Ramie

BATAVIA, Java
Batavia consulate closes. Comm & Fin Chr 155:1051 Mr 12 '42

BATCHELLER, Hiland G.
Portrait. Steel 111:37 S 28 '42

BATES, Phaon Hilborn, 1879-
Sketch. por Am Cer Soc Bul 21:227-8 O 15 '42

BATH iron works corporation
High yield stocks. S. Devlin. Mag of Wall St 69:561+ F 21 '42

BATH preparations
Bath oils; abstract. Soap & San Chem 18:56 Ag '42
Bubble bath products. C. A. Tyler. il Soap & San Chem 18:26-8+ Ag '42

BATHHOUSES
Projected construction; types of housing suitable for use in semitropical areas. il plans Arch Forum 77:45 Jl '42

BATHING suits
All-America package competition; award to Thebest mills co.; swim suits in transparent bags of rubber hydrochloride sheeting. il Mod Packaging 15:196-7+ Ap '42

BATHOLITHS
Endomorphism of the Idaho batholith. A. L. Anderson. bibliog map Geol Soc Bul 53:1099-1126, pl 1-3 Ag '42

BATHROOMS
Bathing lounge; house of 194x. il plan Arch Forum 77:116 S '42
Baths are key to conversion of mansion to war housing. il plans Am Bld 64:58 O '42
Flexible space in house of 194x. diags Arch Forum 77:142 S '42
Housing from the tenant's viewpoint; bathrooms and their equipment; study by E. Coit. diags plan Arch Rec 91:78 Ap '42
Modernization tip; extra bath gives extra room to rent. il plan Am Bld 64:65 F '42
Packaged bathrooms; new house of 194x. il diags plans Arch Forum 77:74-5 S '42
Pipeless bathroom of 194x. diags Arch Forum 77:134 S '42
Selling now for sales later; kitchen and bathroom modernization. il Dom Eng 160:46+ Ag '42
Two baths where one was before; Indiana hotel remodeled to double bathroom efficiency. il Am Bld 64:47 My '42

BATHS (chemical apparatus). See Chemical apparatus

BATHTUBS
Glazed tile bath tub. diags Am Bld 64:62 O '42
Low weight and high strength feature this ceramic body; Trenton potteries produce lightweight large size whitewares from Duraclay. il Cer Ind 39:62 N '42
Precast reinforced concrete and tile bath tub introduced in Columbus. il Concrete 50:26-7 N '42
Tile for tubs and sinks. il diags Am Bld 64:112-13 Ap '42

BATS
Battling bats; bright lights solve a university's problem. Sci Am 166:139 Mr '42
Cochlear potentials elicited from bats by supersonic sounds. R. Galambos. bibliog il Acoustical Soc Am J 14:41-9 Jl '42

BATTERSON, James Goodwin, 1823-1901
Biographical sketch. R. W. Sheehan. por Spectator (Life ed) 149:16-19 O '42

BATTLESHIPS. See Warships

BAUXITE
American bauxite supplies. Economist 141:651-2 N 29 '41
Bauxite, alumina under allocation. Oil Paint & Drug Rep 142:7+ Jl 13 '42
Bauxite production, 1941. Chem & Met Eng 49:104 F '42
Bauxite resources of the United States. J. R. Thoenen and E. F. Burchard. map U S Bur Mines Rep of Invest 3598:1-42 '41
Brazilian metals. Economist 142:357-8 Mr 14 '42
Clays and high-silica bauxites for alumina production; summary of report by Advisory committee on metals and minerals. Chem & Met Eng 49:138-40 S '42; Same cond. Metal Prog 42:197-200 Ag '42; Same cond. Min Cong J 28:18-21 O '42; Abstract. Min & Met 23:507-8 O '42
Engineer in the East Indies; production of bauxite. C. A. M. Smith. Engineer 173:260 Mr 27 '42
From Arkansas' bauxite. il Chem & Met Eng 49:78-9 Je '42
Germany's war-time bauxite supplies; deposits in southeastern Europe. Chem Age (Lond) 45:292 D 6 '41
Low-grade domestic bauxite and clay recommended as source of alumina. Steel 111:54-5 Ag 10 '42
Production of aluminum. Can Min J 63:231 Ap '42
Sources of aluminum. Can Chem & Process Ind 26:277 My '42
U.S. troops will protect bauxite mines in Dutch Guiana. Comm & Fin Chr 154:1247 N 27 '41

BAYUK cigars, inc.
Earnings, 1940 and 1941. Comm & Fin Chr 155:1008 Mr 9 '42

BEACH houses
Beach house in Havana, Cuba. il plans Arch Forum 75:406-7 D '41

BEACH houses—*Continued*

Beach house in Mantoloking, N.J.; views, plans and construction outline. Arch Forum 76:188-92 Mr '42

BEACH plums

Beach plum prizes of the Arnold arboretum. Science 96:199 Ag 28 '42

BEACHES

Mean sea-level and sand movements. H. Leypoldt. diags Science 94:607-9 D 26 '41; Discussion. F. P. Shepard and E. C. LaFond. bibliog 95:193-4 F 20 '42

Precast concrete jetties create beaches and prevent shore erosion. S. M. Wood. il diags Concrete 50:2-4 Ag '42

Source of beach and river sands on Gulf coast of Texas. F. M. Bullard. bibliog maps Geol Soc Bul 53:1021-43, pl 1-3 Jl '42

BEACON associates, incorporated

Debentures offered. Comm & Fin Chr 155:46 Ja 3 '42

BEACONS

Airport lighting. H. J. C. Pearson. il diags plan Elec Eng 61:119-25 Mr '42

Airport lighting in the United States and Europe. F. C. Breckenridge. diag Illum Eng 36:1158-60 D '41

Ungrounded ground wire supplies beacon. il Power Pl Eng 46:57 F '42

BEAL, George Denton, 1887-

Gets Remington medal. Oil Paint & Drug Rep 140:3+ D 8 '41

BEAMS

Beams of variable moment of inertia; the computation of fixed end moments, sidesway moments, stiffnesses and carry-over factors. J. B. Wilbur. diags Boston Soc C E J 29:264-85 O '42

Beams with moment of inertia doubled near the ends. A. Barjansky. Civil Eng 12:332-3 Je '42

Deflection of beams under simultaneous axial and transverse loads. A. G. Strandhagen. diags Product Eng 13:396-8 Jl '42

Design of lap-welded continuous beams. A. Barjansky. diags Welding J 21:388-91 Je '42

Designing short beams. J. Marin. diags Machine Design 14:69-72+ F '42

Effect of deflection of the supporting beams on the bending moments in a uniformly loaded slab; abstract. A. Burns. Am Concrete Inst J 13:368 F '42

Essentials of reinforced concrete design. O. Albert. diags Concrete 50:11-14+ Ja; 41-4 F; 41-3 Mr; 33-7 Ap '42

Flame-straightened I-beams. il Eng N 128:566 Ap 9 '42; Same. Am Bld 64:77-8 F '42

Flexure of continuous beams and beams with fixed ends. A. L. Egan. Engineering 152:341-2 O 31 '41

Grid system floor of record spans; service building for Chevrolet motor co. S. D. Szego. il diag Eng N 128:16-18 Ja 1 '42

How much will any I-beam hold? chart Can Min J 63:149 Mr '42; Same. Mech Handling 29:97 My '42

How to figure beams. P. Swain. diags Power 86:513, 588, 668, 746, 826 Jl-N '42

How to figure strain for wooden beams; chart. Brick & Clay Rec 100:22 Je '42

Influence of steel grade upon strength and deflections of reinforced concrete beams; abstract. E. Suenson. Am Concrete Inst J 13:188-9 N '41

Laminated timber beams; recreation center in Seattle; with comments by C. J. Hogue. il Eng N 129:97-8 Jl 16 '42

Lateral instability of unsymmetrical I beams. H. N. Hill. il diags J Aeronautical Sci 9:175-80 Mr '42

Lateral stability of unsymmetrical I-beams and trusses in bending. G. Winter. diags Am Soc C E Proc 67:1851-64 D '41; Discussion. 68:299-302, 477-9, 1404-6 F-Mr, O '42

Limited deflection of floorbeams. P. Hessemer. Eng N 127:896-7 D 18 '41

Measured stresses in a two-hinged beam arch; Purdue University field house. P. E. Soneson. il diags Civil Eng 12:209-12 Ap '42

Numerical procedure for computing deflections, moments, and buckling loads. N. M. Newmark. bibliog diags Am Soc C E Proc 68:691-718; Discussion. B. Johnston. 783-7 My '42; reprinted without discussion Ill U Eng Exp Sta Reprint Ser 23 pa 15c

Progress in the structural elements of buildings. T. L. Condron. il diags W Soc E J 47:208-38 O '42

Relationship between bending moments in columns and beams. A. G. Strandhagen. Civil Eng 12:625-6 N '42

Relative merits of wire and bar reinforcement in pre-stressed concrete beams; abstract. R. H. Evans. Am Concrete Inst J 14:81-2 S '42

Shear stresses in tapered beams. A. G. Pugsley and R. A. Weatherhead. diags Roy Aeronautical Soc J 46:218-26 S '42

Slide rule for designing reinforced concrete beams. W. N. Hazen. il Civil Eng 12:37 Ja '42

Solving for moments in a continuous beam by one unknown. J. C. Rathbun. Civil Eng 12:569-70 O '42; Discussion. 12:688-9 D '42

Statistical theory of the effect of dimensions and of method of loading upon the modulus of rupture of beams. J. Tucker, jr. bibliog Am Soc T M Proc 41:1072-88; Discussion. 1089-94 '41

Stresses for beams revised to save steel. Iron Age 150:114 S 17 '42

Table of fixed-end moments. C. J. Posey. Eng N 127:671 N 6 '41; Discussion. 128:502 Mr 26 '42

Tapered beams. E. H. Atkin. diags Roy Aeronautical Soc J 46:227-36 S '42

Tests of glued laminated wood beams impregnated with creosote. W. A. Oliver. il Am Soc T M Proc 41:1198-1211; Discussion. 1212-13 '41

Tests of reinforced concrete beams with recommendations for attaining balanced design. K. C. Cox. bibliog il diags Am Concrete Inst J 13:65-80 S '41; Discussion. 13: sup80^{1}-80^{11} Je '42

Useful I-beam chart. W. F. Schaphorst. Chem Ind 51:82 Jl '42

See also

Airplane wings

Girders

BEANS

Exhaust system for cleaning beans. diags Sheet Metal Worker 32:34-5 N '41

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:23-6 '41

Vitamin content of green snap beans; abstract. K. T. Farrell and C. R. Fellers. Food Ind 14:109-10 N '42

See also

Soybeans

BEARING metals

Bearing for Diesel engines; abstract. R. A. Watson. S A E J 50:sup16-17 O '42

Bearing metals for the new wartime conditions. diag Automotive & Aviation Ind 86: 39 Ap 15 '42

Bearings for Diesel engines. A. B. Willi. il diags Mech Eng 64:439-48 Je '42

Bearings for heavy-duty automotive engines. A. B. Willi. il diags S A E J 50:62-72 F '42

Composite railroad bearing conserves copper. E. S. Pearce. diag Metal Prog 42:368-9+ S '42

Fixing bearing metal in steel shells. J. K. Anthony. il Metal Prog 42:213-14 Ag '42

Hadfield manganese steel as hard bearing metal. V. R. Farlow and L. H. McCreery. il Metals & Alloys 14:692-7 N '41

Investigation of the factors governing the adhesion of tin-base bearing metals. W. T. Pell-Walpole, J. C. Prytherch and B. Chalmers. Metal Prog 42:438+ S '42

Lead-arsenic bearing metal is making successful test; car motor bearings. F. E. Uhl. il Transit J 86:215-16 Je '42

Nickel alloy permits quick repair of bearings on rubber machinery. H. M. Donepp. il diag Rubber Age 51:129-31 My '42

BEARING metals—*Continued*

No more Straits tin for your bearings; how to keep machines running on dependable substitute bearing metals. A. B. Willi and others. il Power 86:318-21 My '42

Practical aspects of bearing design; basic materials. E. B. Etchells and A. F. Underwood. il diag Machine Design 14:74-7 O '42

Properties of certain lead-bearing alloys. A. J. Phillips, A. A. Smith, jr. and P. A. Beck. il diag Am Soc T M Proc 41:886-93; Discussion. 894-6 '41

Railway bearing metals; their control and recovery. J. N. Bradley and H. O'Neill. il diag Engineering 154:298-300, 318-20, 339-40 O 9-23 '42; Same cond. Engineer 174:324-6, 347-8 O 16-23 '42; Discussion. Engineering 154:275-6 O 2 '42

Secondary copper for bearings, war work and alloy steel; report by Advisory committee, National academy of sciences. il diag Metal Prog 42:221-6+ Ag '42

Silver for bearings. A. Bregman. il diags Iron Age 150:65-7 Ag 13; 41-5 Ag 20 '42

Tin alloys for British bearing metals. Automotive & Aviation Ind 86:25+ My 1 '42

Tin economy in bearing metals. Engineering 153:268 Ap 3 '42

Tin economy in plain bearings. P. T. Holligan. Engineering 154:56-7, 66-7 Jl 17-24 '42; Same. Automobile Eng 32:367-9 S '42

See also

Babbitt metal
Ball bearings
Bearings

Analysis

Analysis of tin-base bearing metal; permanganate and iodometric methods for antimony and copper. J. R. Andrews and A. J. Bender. bibliog Ind & Eng Chem Anal ed 14:713-14 S 15 '42

Testing

Automatic autographic wear-measuring device. C. W. Muhlenbruch. il diag Mech Eng 64:289-90 Ap '42

BEARING surfaces

Bearing seizure as affected by surface finish. diags Machine Design 14:84+ Ag '42

How smooth should a bearing surface be? E. L. Hemingway. il Iron Age 149:40-5 Ja 8 '42

Relation of bearing surface condition to bearing performance. W. Mikelson. il diags Gen Elec R 44:669-72 D '41

Role of surface chemistry and profile in boundary lubrication. J. T. Burwell. S A E J 50:450-7 O '42; Abstract. Nat Pet N 34:R90 Mr 18 '42

Surface finish of journals. R. W. Dayton, H. R. Nelson and L. H. Milligan. bibliog il diags Mech Eng 64:718-26 O '42

BEARINGS

Bearings and lubrication. R. J. S. Pigott. il diags Mech Eng 64:259-69 Ap '42

Bearings in kiln construction. Chem Age (Lond) 47:283 S 26 '42

Cleaning small bearings. M. Steinhardt. il Mach 49:179-80 S '42

Conserving strategic metals in car journal bearings. il Ry Age 113:173-5 Ag 1 '42; Same, with diags. Ry Mech Eng 116:374-7 S '42

Emergency bearings, including wood. M. Gozdenovich. diags Power 86:489-90 Jl '42

Maintenance of ring lubricated bearings. W. M. Halliday. Mech Handling 29:73-4 Ap '42

Making belts and bearings last longer; Underwood Elliott Fisher co., Bridgeport, Conn. H. L. Ekedahl. il Factory Management 100:149-50+ Ag '42

Nickel alloy permits quick repair of bearings on rubber machinery. H. M. Donepp. il diag Rubber Age 51:129-31 My '42

Oil corrosion tester; a simplified apparatus for testing corrodibility of bearings and corrosiveness of lubricants. N. MacCoull, E. A. Ryder and A. C. Scholp. il diags S A E J 50:338-45 Ag '42

Oil retaining bronze bearings. Mech Handling 29:91-2 My '42

Practical aspects of bearing design. E. B. Etchells and A. F. Underwood. il Machine Design 14:84-7+ S; 74-7 O '42

Random remarks on plain, ball and roller bearings. E. Ingham. Mech Handling 28:259-60 D '41

Self-lubricating porous iron bearings. Mach 48:230 Jl '42

Silver for bearings. A. Bregman. il diags Iron Age 150:65-7 Ag 13; 41-5 Ag 20 '42

Sleeve bearings; factors that govern their design and performance. B. Sachs. diags Product Eng 13:248-52, 322-5, 365-6, 384-7, 462-4 My-Ag '42

Tin economy in plain bearings. P. T. Holligan. Engineering 154:56-7, 66-7 Jl 17-24 '42; Same. Automobile Eng 32:367-9 S '42

To determine the clearance in a bearing. Can Min J 62:764 N '41

Unit electric heater used to dry bearings. il Elec W 116:1912 D 13 '41

Wanted; bearing-lubrication data; abstract. M. D. Hersey. Power 85:982 Mid-D '41

Your bearings keep 'em rolling. diags Power 86:333-6 Ap '42

See also

Babbitt metal
Babbitting
Ball bearings
Bearing metals
Lubrication and lubricants
Roller bearings

also subdivision Bearings under special subjects, e.g.

Automobile engines—Bearings
Automobiles—Bearings
Rolling mills—Bearings

Manufacture

Bonding low-tin bearings to iron and steel; Kolene process. il Iron Age 150:51-3 N 5 '42

Dies for fabrication of porous bearings. A. J. Langhammer and M. F. Smith. il diags Metal Prog 41:335-7 Mr '42

Fixing bearing metal in steel shells. J. K. Anthony. il Metal Prog 42:213-14 Ag '42

Powdered metals in machine design. il Mach 48:111-18 Ag; 49:148-52 S '42

Sprayed metal bearings. il Iron Age 149:52-3 Je 25 '42

Substitutes iron powder for bronze. A. F. Macconochie. il Steel 110:98+ Mr 16 '42

Testing

Bearing seizure as affected by surface finish. diags Machine Design 14:84+ Ag '42

Bearings for Diesel engines. A. B. Willi. il diags Mech Eng 64:439-48 Je '42

Concentricity checking machine for airplane rocker arm bearings. J. R. Drummond. il diags Instruments 15:104-5 Ap '42

Intermittently loaded sleeve bearings. R. W. Dayton, J. G. Lowther and H. W. Russell. diag Mech Eng 64:667-8 S '42

Measurement of small friction torques. diag Engineering 153:17 Ja 2 '42

Measuring wear in a bearing. P. L. Budwitz. diags Factory Management 100:124+ Jl '42

Relation of bearing surface condition to bearing performance. W. Mikelson. il diags Gen Elec R 44:669-72 D '41

Surface finish of journals. R. W. Dayton, H. R. Nelson and L. H. Milligan. bibliog il diags Mech Eng 64:718-26 O '42

BEARINGS, Anti-friction

Combined bearing and one-way clutch. diags Automotive & Aviation Ind 86:47 Ap 15 '42

How to get longer life from antifriction bearings. G. Palmgren. il Factory Management 100:109-12 Jl '42

Low temperature bearing lubrication; high speed equipment cleans and re-lubricates anti-friction bearings. il Aviation 41:135, 138 S '42

Lubrication of anti-friction bearings. Paper Ind 24:632+ S '42

Repacking bearings. P. Montgomery. il Aero Digest 41:186+ Ag '42

See also

Ball bearings
Roller bearings

BEARINGS, Jewel

GE turns out instrument jewels automatically; glass substitutes developed. Steel 111: 116 N 2 '42

Glass satisfactory for jewel bearings; abstract. F. K. McCune and J. H. Goss. Cer Ind 39:28 Jl '42

Jewels in time-pieces and instruments. P. Grodzinski. diags Engineering 152:518-19 D 26 '41

New jewel for indicating instruments. F. K. McCune and J. H. Goss. il diags Elec Eng 61:Trans 673-6 S '42

Pivot bearing design. J. H. Goss. diags Product Eng 12:662-4 D '41

Remove jewels when meters are tested. Elec W 117:1024 Mr 21 '42

Synthetic jewels proposed for meters. Elec W 117:501 F 7 '42

Watt-hour meter jewel maintenance. il Elec W 117:1372+ Ap 18 '42

BEARINGS, Non-metallic

Emergency bearings, including wood. M. Gozdenovich. diags Power 86:489-90 Jl '42

Flexible bearings, bushings and gears of rubber or neoprene. W. L. Nelson. diags Oil & Gas J 40:160 D 25 '41

How to use laminated-plastic bearings. V. E. Enz. il Power 86:405-6 Je '42

Laminated phenolic bearings. K. T. MacGill. il Mod Plastics 20:76+ N '42

Lubrication of under-water bearings; flocculator in water works plant; abstract. W. Yegen. Pub Works 73:18 O '42

Marine bearings; laminated plastic bearings for stern tubes in ships. H. C. Irvin. il Mod Plastics 19:33-4+ Ap '42

Micarta goes to sea. V. E. Enz and F. P. Hunsicker. il Marine Eng 47:121-3 Je '42

Nonmetallic bearings for steel mill service. F. W. Vogt. il Steel 111:78, 80 Jl 20 '42

Rubber bearing for rudder post. R. Wagner. diags Eng N 128:933 Je 4 '42

BEATRICE creamery company

Another look at your company. il Mag of Wall St 70:183 My 30 '42

BEATTIE-BRIDGEMAN equation

Determination of Beattie-Bridgeman constants from critical data. F. W. Brown. Ind & Eng Chem 33:1536-7 D '41

Second virial coefficients of polar gas mixtures. W. H. Stockmayer. bibliog J Chem Phys 9:863-70 D '41

BEATTY, Sir Edward W. 1877-

Sir Edward Beatty resigns C.P.R. presidency. por Ry Age 112:901-2 My 9 '42

BEAUMONT, Texas

See also
Housing—Beaumont, Texas

BEAUTY shops

Fluorescent light for beauty salon. il Elec West 88:110 Je '42

BEAVERBROOK, William Maxwell Aitken, 1st baron, 1879-

Portrait. Business Week p43 Ap 4 '42

BECK, David

Beck is nabbed; served in damage suit over destruction of plant in 1937. Business Week p86-8 Je 13 '42

BEDBUGS

Bedbug insecticide. Soap & San Chem 18: 111 F '42

Determination of fumigants; composition of heavy coal-tar naphtha. N. F. Sarsfield. diag Soc Chem Ind J 61:1-6 Ja '42

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42

BEDDING

Detection of second-hand white cotton filling materials used in articles of bedding and upholstered furniture; chemical, fluorescence and hydrogen ion concentration tests. C. M. Jephcott and W. H. H. Bishop. bibliog Ind & Eng Chem Anal ed 14:400-4 My 15 '42

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Labeling required; OPA sets top prices on sheets; situation in blankets and pillows. Business Week p31-2 F 14 '42

See also
Mattresses

Advertising

Promoting the linen, domestics, and blanket department. V. M. Putter. J Retailing 17: 105-8 D '41

BEDROOMS

Bedroom of 194x. il Arch Forum 77:128-9, 135 S '42

Housing from the tenant's viewpoint; bedroom utility can be increased; study by E. Coit. il plans Arch Rec 91:79 Ap '42

BEDSPREADS. See Coverlets

BEECH

Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41

BEECH aircraft corporation

Annual report. Comm & Fin Chr 154:1412 D 9 '41

BEEF

Beef production in California. H. R. Guilbert and L. H. Rochford. (Agric. ext. service circ. 115) 125p Univ. of California, College of agriculture, Berkeley '40

Beef purchase standards and use for quantity cookery. J. O. Dahl, comp. 175p $1 The Dahls, Stamford, Conn. '41

Effect of storage conditions on palatability of beef; abstract. R. M. Griswold and M. A. Wharton. Food Ind 14:99 Ja '42

Retailer and consumer reaction to graded and branded beef. R. C. Ashby and others. il diags maps Ill U (Urbana) Agric Exp Sta Bul 479:339-91 '41

Sterilamps benefit dining car service; beef tenderizing process. il Elec W 117:118+ Ja 10 '42

Yield of certain wholesale cuts of beef roasted by gas and by electricity. L. Ayers. Gas Age 90:11-12 Ag 13 '42

Freezing

See Meat, Frozen

BEER

Brewing of lager beer. flow sheet il Chem & Met Eng 49:112-15 Jl '42

Getting more alcohol from present facilities; beer still. G. T. Reich. diags Chem & Met Eng 49:129-31 My '42

Hogs or beer? which is the more economical source of food? Sci Am 167:170+ O '42

Transparent pipes for beer. il Mod Plastics 20:52 N '42

See also
Brewing industries

Advertising

Speaking of brewing industry copy codes. il Ptr Ink 198:20-1 Ja 23 '42

Why Acme outsells 200 competitive brands of beer in California. K. F. Schuster. il Sales Management 49:18-20 D 15 '41

Year's best-liked back-bar pieces. il Mod Packaging 15:76-7 D '41

Analysis

Determination of traces of copper in wort, beer, and yeast. I. Stone. Ind & Eng Chem Anal ed 14:479-81 Je 15 '42

Determination of traces of tin in malt beverages. I. Stone. Ind & Eng Chem Anal ed 13:791-2 N 15 '41

BEER containers

Cork a quart. il Mod Packaging 16:53 S '42

Repitched barrels for beer. il Mod Packaging 16:69+ S '42

What the beer can restriction may mean to bottle production. Cer Ind 39:29 Jl '42

BEER delivery
Ballantine beats gas shortage with systematic phone selling; eliminating nonproductive draft loads. C. W. Badenhausen. Sales Management 51:44+ S 15 '42

BEESWAX
Beeswax production in Brazil, Chile and Peru. For Comm W 6:22 Ja 31 '42

BEETLES
Beetles and moths will attack all protein fibers. il Rayon 23:549 S '42

See also
Japanese beetles

BEETS, Dried
Army standards for dehydrated foods. Food Ind 14:101-2 N '42

BEETS and beet sugar
Beet sugar; history, technology and economics of the industry in southern Alberta. J. Landysheff. il Can Chem & Process Ind 26:510-16 S '42
Beet sugar industry faces farm labor problem. Barron's 22:12 Je 1 '42
Beet sugar production; flow sheet. il Chem & Met Eng 49:110-13 Je '42
Cost of manufacturing and marketing sugar in Wisconsin. H. H. Bakken and G. M. Beal. 27p pa 50c Mimir, Madison, Wis. '41
Electricity in a beet-sugar factory. B. Smith. Inst E E J 89 pt 2:278-83 Ag '42; Abstracts. Electrician 128:21-2 Ja 9 '42; Elec R (Lond) 130:114-15 Ja 23 '42; Discussion. Inst E E J 89 pt 2:283-7 Ag '42
Europe's sugar-beet cultivation intensified. For Comm W 7:27-8 Je 6 '42
Germany evolves new sugar beet. For Comm W 8:27 Ag 1 '42
Low-purity beet sugar factory materials; rates of crystallization in crystallizer fillmass. R. A. McGinnis, S. Moore, jr. and P. W. Alston. il Ind & Eng Chem 34:171-3 F '42
More beet sugar; western states plan big increase in output. il Business Week p26+ F 7 '42
OPA halts sugar shipments to East; local markets over-supplied with beet sugar. Comm & Fin Chr 155:1960 My 21 '42
Planting sugar beets. Science 95:sup8 Ja 23 '42
Potash salts, controlling factor in the normal growth of sugar beets; abstract. F. B. Lopez-Rubio. Chem & Met Eng 49:225-6 S '42
Sugar-beet fertilizers; tests carried out in Belgium. For Comm W 7:18 My 30 '42
Sugar beets; improved seed, new laborsaving devices. Sci Am 167:31-2 Jl '42
Sugar beets, Manitoba, Canada. For Comm W 8:25 S 12 '42
Sugar-producing industry from domestic sugar beets in Canada. For Comm W 6:18-19 Mr 14 '42

BEIDELLITE
Electrochemical properties of mineral membranes; beidellite membranes and the determination of sodium. C. E. Marshall and C. A. Krinbill. bibliog Am Chem Soc J 64:1814-19 Ag '42

BELGIAN CONGO. See Congo, Belgian

BELGIUM

See also
World war, 1939—
Belgium

Commerce

Belgian trade; imports and exports, 1938 and 1941. Economist 143:486 O 17 '42

German occupation

Belgian resistance. Economist 143:508-9 O 24 '42
German exploitation of Belgium. R. Ardenne. 65p pa 50c Brookings institution, 722 Jackson pl, Washington, D.C. '42
Germany's economic order in Belgium. Economist 141:789-90 D 27 '41

BELL aircraft corporation
Earnings, 1939-1941. Comm & Fin Chr 155:913 Mr 2 '42

BELL telephone company of Canada
Earnings, 1938-1941. Comm & Fin Chr 155:913-14 Mr 2 '42

BELL telephone laboratories
Bell telephone laboratories' central instrument loan system. M. L. Clarke. il Instruments 15:338-9 S '42
Research laboratories building; new Bell telephone laboratory. il diag Eng N 128:344-7 F 26 '42

BELL telephone system
Bell system at start of two wars; chart. Pub Util 29:361 Mr 12 '42
Organization of large-scale engineering work. M. R. Sullivan. Elec Eng 61:422-4; Discussion. 428-9 Ag '42

BELLADONNA
Drug plant cultivation backed by agricultural dept. Oil Paint & Drug Rep 141:3+ Je 22 '42
Penick to cultivate big belladonna acreage. Oil Paint & Drug Rep 141:56 Mr 23 '42

BELLOWS
Bellows in the refrigeration industry. W. L. Chandler. il diag Refrig Eng 42:297-9, 381-2+ N-D '41

BELLS
Church bell cast in Spain. H. H. Miller. il Foundry 69:118 D '41

BELT conveyors. See Conveying machinery—Belt conveyors

BELTING
Aids in belt power transmission. W. F. Schaphorst. diags Pet Eng 13:122 Ja '42
All-America package competition; award to the Dayton rubber mfg. co. il Mod Packaging 15:172-3+ Ap '42
Belt maintenance. Mech Handling 29:187 O '42
Belt salvage. Blast F & Steel Pl 30:567 My '42
Belt slip. W. F. Schaphorst. Power Pl Eng 46:98 Jl '42
Belt slip and its cost. W. F. Schaphorst. Power Pl Eng 46:91 F '42
Belt used in self-energizing brake. J. F. Cavanagh. diag Am Mach 86:1021-2 S 17 '42
Conserve V-belts by maintaining proper tension on sheaves. il Brick & Clay Rec 101:38 O '42
Don't abuse rubber; how to prolong its life; V-belts. W. S. Richardson. il Factory Management 100:95-6 F '42
Exact vs. approximate belt length calculations. N. J. Mecklem. Power Pl Eng 46:91-2 F '42
Fats and oils affect belt materials. Power Pl Eng 46:97-8 Jl '42
Getting the most service out of transmission belts. il Oil & Gas J 40:170-3 Ap 30 '42
How to cut flat belts square; illustrated instructions. Power 86:589 Ag '42
How to get the most from V-belt drives. C. O. Mitchell. il Factory Management 100:77-9 Mr '42
How to lay out holes in belts; illustrated instructions. Power 86:669 S '42
Keep your belt-driven machines running. J. R. Hopkins. il diags tables Power Pl Eng 46:59-61 Ag '42; Same cond. Concrete (mill sec) 50:189-90 Je '42; Same. Coal Age 47:78-9 Je '42; Same. Comp Air M 47:6821-2 Ag '42; Same. Paper Ind 24:368-9 Jl '42; Same. Paper Tr J 115:15-16 Jl 16 '42; Same, without tables. Mach 48:228-9 Jl '42; Same. Food Ind 14:51-2 S '42
Keeping rubber in service; proper care prolongs life of belting and hose. il Can Chem & Process Ind 26:401+ Jl '42
Make rubber belts last longer. P. D. Suloff. il Factory Management 99:93-4 D '41; 100:114-15 Ja '42
Making belts and bearings last longer; Underwood Elliott Fisher co., Bridgeport, Conn. H. L. Ekedahl. il Factory Management 100:149-50+ Ag '42
Making leather belts endless. il Textile World 92:85 Je '42
Making rubber belting last longer. Mach 48:180 Ag '42

BELTING—*Continued*

Proper care of rubber belts. Power Pl Eng 46:106 O '42

Proper care of V-belts. L. L. Smith. il Am Mach 86:1227 O 29 '42

Reasons for V-belt mortality. diags Textile World 92:102 O '42

200 do's and dont's that make rubber goods last longer; transmission belts. il Power 86:379-81 Je '42

200 ways to make leather belts & packings last longer. F. A. Annett. il diags Power 86:466-71 Jl '42

V-belt maintenance is necessary to conserve rubber stock-piles. il Brick & Clay Rec 101:42 S '42

V-belt service factors; data sheet. Power 86:210 Mr '42

V-belt tension. il diags Power 86:119-21 F '42

V-belts keep them rolling. il diags Rayon 22: 691-3 N '41

Wartime belting efficiency. D. C. Miner. Refrig Eng 43:357-8 Je '42

Weight of belting. W. F. Schaphorst. Power Pl Eng 46:91 Ja '42

Wrap; a further consideration of the subject; formula for calculating difference in tension between tight and slack ends of cord, belt or brakeband. C. Hubbard. Power Pl Eng 45:94 D '41

See also

Power transmission

Pulleys

Advertising

Industrial campaign is built around conservation theme; Houghton leather belting. D. C. Miner. il Ptr Ink 199:28+ Je 26 '42

BELTING, Conveyor

Cutting conveyor belts. T. A. Hodgkiss. Mech Handling 29:138 Jl '42

Don't abuse rubber; how to prolong its life. W. S. Richardson. Factory Management 100: 95 F '42

First all Buna S conveyor belt produced at Hewitt plant. Paper Tr J 115:31 S 24 '42

Reconditioning rubber conveyor belts. diags Engineering 154:146 Ag 21 '42

Reconditioning worn conveyor belts. il Mech Handling 29:156-7 Ag '42

200 do's and dont's that make rubber goods last longer; conveyor belts. il Power 86: 381-2 Je '42

BELTS

Relation of cost to output for a leather belt shop. J. Dean; C. R. Noyes. 72p 50c Nat. bur. econ. research '41

BEMBERG

Use of Bemberg in rayon hosiery. T. Johnson. Rayon 23:346-8 Je '42

BEMENTITE. See Manganese ores

BENCHMARKS

Tidal bench marks, California coast. 75p U.S. Coast and geodetic survey, Washington '42

BENDING

Bend radii for sheet-metal forming; reference book sheet. Am Mach 86:1039 S 17 '42

Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9: 213-19 Ap '42

Bending settlement of a slab resting on a consolidating foundation. M. A. Biot and F. M. Clingan. J Ap Phys 13:35-40 Ja '42

Design charts for tubes subjected to bending. W. C. Clayton. Aviation 41:80-2+ Ap '42

Determining springback; calculating die radius to bend desired curve. R. G. Sturm and B. J. Fletcher. diags Product Eng 12: 526-8, 590-4 O-N '41; Discussion. 13:48-9 Ja '42

Roll-forming metal sections in a British airplane plant. diags Mach 49:175-8 S '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42

BENDING machines

Bending press handles progressive stamping, forming operations. il Steel 110:74 F 2 '42

Bernitz automatic bulkhead ring bending machine. il Engineer 173:169 F 20 '42; Automobile Eng 32:116 Mr '42; Engineering 153: 247 Mr 27 '42

Lake Erie press for bending heavy plate. il Mach 48:160 Ag '42

Press-bending of small pipes. il Engineering 153:306-7, 310 Ap 17 '42

Progressive operations on a bending press. il Iron Age 148:49 N 20 '41

Salvages rubber with bending-roll machine. il Power 86:809-10 N '42

Timken converts standard bending roll machine for use in rubber salvage. il Blast F & Steel Pl 30:996 S '42

BENDING moment

Bending moments in the walls of rectangular tanks. D. Young. diags Am Soc C E Proc 67:1683-96 N '41; Discussion. 68:303-4 F '42

Direct computations for sidesway of bents. A. Barjansky. Civil Eng 12:623-5 N '42

Effect of deflection of the supporting beams on the bending moments in a uniformly loaded slab; abstract. A. Burns. Am Concrete Inst J 13:368 F '42

Flexure of continuous beams and beams with fixed ends. A. L. Egan. Engineering 152: 341-2 O 31 '41

Lateral instability of unsymmetrical I beams. H. N. Hill. il diags J Aeronautical Sci 9:175-80 Mr '42

Relationship between bending moments in columns and beams. A. G. Strandhagen. Civil Eng 12:625-6 N '42

Rotor bending moments in plane of flapping. A. Klemin, W. C. Walling and W. Wiesner. J Aeronautical Sci 9:411-18 S '42

Stresses developed in sections subjected to bending moment; an extension of the theory of bending to include the effect of stress-strain characteristic. J. L. Beilschmidt. diags Roy Aeronautical Soc J 46: 161-80 Jl '42

BENDIX aviation corporation

Earnings, years ended Sept. 30, 1940 and 1941. Comm & Fin Chr 155:47 Ja 3 '42

Investment audit. P. Dobbs. il Mag of Wall St 71:28-9+ O 17 '42

BENEFICIAL industrial loan corporation

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:127 N 14 '42

BENEFIT societies

Burial societies enter Arkansas by mail. Ins Field (Life ed) 71:11 Mr 20 '42

Domestic benevolent assessment society cannot form unit of society composed entirely of service men. Weekly Underw 146:1426 Je 20 '42

Effects of inflation upon fraternals. J. D. Reeder. Nat Underw (Life ed) 46:41 O 2 '42

Fraternalism aids social security. W. C. Below. Nat Underw (Life ed) 46:21 Ag 14 '42

Iowa moving against unlicensed societies. East Underw 43:5 Ag 28 '42

Review of fraternalism from inception. B. W. Miller. Nat Underw (Life ed) 46:29+ O 2 '42

St George fraternal of Chicago is being reinsured. Nat Underw (Life ed) 46:20 F 6 '42

Societies begin to act on war risk. Nat Underw (Life ed) 46:29 Ja 30; 3+ F 13 '42

Status war rider being adopted. Nat Underw (Life ed) 46:21 Ja 23 '42

War clause is discussed by fraternalists; N.F.C. presidents' section midwinter gathering. Nat Underw (Life ed) 46:1+ F 27 '42

Youth convention is approved by Illinois congress. Nat Underw (Life ed) 46:21 F 27 '42

See also National fraternal congress of America

Statistics

Consolidated chart of insurance organizations. A. S. Hamilton, comp. 1942 ed 94p $1.25; pa $1 Fraternal monitor, 537 Powers bldg, Rochester, N.Y. '42

BENEFIT societies—Statistics—*Continued*

Fraternal orders, assessment life and accident associations; business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:99 sec 2 My 9 '42

BENN brothers, limited

Annual general meeting, 46th. Chem Age (Lond) 47:167-8 Ag 15 '42

BENNETT, James Gordon

Man who made news. O. Carlson. 440p bibliog(p423-8) $3.50 Duell, Sloan and Pearce, 270 Madison av, New York '42

BENTON, Thomas Hart

To pull some Americans out of their shells; Abbott laboratories donate dynamic Benton paintings. Ptr Ink 199:16-17 Ap 3 '42

BENTONITE

Depolarization of the Tyndall-scattered light of bentonite and ferric oxide sols. C. R. Hoover, F. W. Putnam and E. G. Wittenberg. bibliog il diag J Phys Chem 46:81-93 Ja '42

Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42

Plasticity of clays. E. A. Hauser and A. L. Johnson. bibliog Am Cer Soc J 25:266-7 My 1 '42

Probable new bentonitic clay horizon in west Tennessee. Eng & Min J 143:60-1 O '42

Properties of the floc in water purifications with bentonite. E. M. Beavers and F. K. Cameron. bibliog diag J Phys Chem 46:93-8 Ja '42

See also

Montmorillonite

BENZALACETOPHENONE. See Chalcone

BENZALDEHYDE

Bimolecular reduction of hindered aldehydes. R. C. Fuson and others. bibliog Am Chem Soc J 64:30-3 Ja '42

Electron-sharing ability of organic radicals; the effect of the radicals in the solvent molecule. F. A. Landee and I. B. Johns. bibliog Am Chem Soc J 63:2895-900 N '41

Analysis

Assay of benzaldehyde; use of hydroxylammonium sulfate and aqueous sodium hydroxide. M. Schubert and J. G. Dinkelspiel. bibliog Ind & Eng Chem Anal ed 14:154-5 F 15 '42

BENZAMIDE

Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42

BENZAMIDINE

Glyoxalines; a study of the reaction between benzamidine and phenylglyoxal. R. C. Waugh, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:2028-31 S '42

BENZANTHRACENE

Synthesis of 4,10-ace-1,2-benzanthracene utilizing Δ^4-tetrahydrophthalic anhydride. L. F. Fieser and F. C. Novello. bibliog Am Chem Soc J 64:802-9 Ap '42

BENZANTHRONECARBOXYLIC acid

*meso*Benzanthronecarboxylic acids. F. C. Copp and J. L. Simonsen. Chem Soc J p209-13 Mr '42

BENZAZIDE. See Benzoyl azide

BENZENE

Absorption of polysubstituted benzene derivatives. A. L. Sklar. bibliog J Chem Phys 10:135-44 F '42

Action of aluminum chloride on aromatic hydrocarbons; the polyethylbenzenes and tetramethylbenzenes. D. Nightingale and F. Wadsworth. bibliog Am Chem Soc J 63:3514-17 D '41

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diags Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Alkylated benzenes for high octane. W. L. Nelson. Oil & Gas J 41:52 Jl 16 '42

Alkylation of benzene in the presence of acid catalysts. R. L. Burwell, jr. and S. Archer. bibliog Am Chem Soc J 64:1032-4 My '42

Association of benzoic acid in benzene. F. T. Wall and P. E. Rouse, jr. Am Chem Soc J 63:3002-5 N '41

Benzene allocation control complete. Oil Paint & Drug Rep 141:3+ Je 8 '42

Binary mixtures for testing fractionating columns at atmospheric and reduced pressures. L. B. Bragg and A. R. Richards. bibliog Ind & Eng Chem 34:1088-91 S '42; Discussion. 34:1533 D '42

Catalytic vapor-phase alkylation of benzene with ethylene; abstract. W. A. Pardee and B. F. Dodge. Nat Pet N 34 pt 2:R318 S 30 '42

Cetane numbers and physical properties of normal alkyl benzenes and other hydrocarbons; evaluation of *n*-alkyl benzenes and certain related hydrocarbons as Diesel fuels. T. Y. Ju, C. E. Wood and F. H. Garner. Inst Pet J 28:159-71 Ag '42

Condensation of some secondary aliphatic alcohols with benzene in the presence of aluminum chloride. R. C. Huston and I. A. Kaye. bibliog Am Chem Soc J 64:1576-80 Jl '42

Countercurrent liquid-liquid extraction in a wetted-wall tower. R. E. Treybal and L. T. Work. bibliog diags Am Inst Chem Eng Trans 38:203-35 F '42

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Diffraction of X-rays by liquid benzene-cyclohexane mixtures. A. Eisenstein and N. S. Gingrich. diags J Chem Phys 10:195-9 Ap '42

Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50; Discussion. 50-1 F '42

Distribution of benzoic acid between water and benzene. F. T. Wall. Am Chem Soc J 64:472-3 F '42

Effect of operating variables on the performance of a packed column still; system carbon tetrachloride-benzene. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

Effect of silver ion coördination upon the Raman spectra of some unsaturated compounds. H. J. Taufen, M. J. Murray and F. F. Cleveland. bibliog Am Chem Soc J 63:3500-3 D '41

Effect of structure on reactivity: nuclear substitution of benzene derivatives. H. F. McDuffie, jr. and G. Dougherty. bibliog Am Chem Soc J 64:297-9 F '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

Electric polarisation of mercurous trichloroacetate and of quinol bistrichloroacetate. N. R. Davidson and L. E. Sutton. Chem Soc J p565-7 S '42

Friedel-Crafts acylations of some sterically hindered alkylbenzenes. G. F. Hennion and S. F. deC. McLeese. Am Chem Soc J 64:2421-2 O '42

BENZENE—*Continued*

Heat capacity of benzene-d_6. W. T. Ziegler and D. H. Andrews. bibliog Am Chem Soc J 64:2482-5 O '42

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33:1540-4 D '41

Liquid-liquid extraction in wetted-wall and packed columns. E. W. Comings and S. W. Briggs. bibliog diags Am Inst Chem Eng Trans 38:143-77 F '42

Monomercuration of benzene. K. A. Kobe and P. F. Lueth, jr. bibliog il diag Ind & Eng Chem 34:309-13 Mr '42

Near ultraviolet absorption spectrum of monodeuterobenzene. C. A. Beck and H. Sponer. bibliog il J Chem Phys 10:575-81 S '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Nitration of benzene; continuous process, using nitric acid alone. D. F. Othmer. J. J. Jacobs, jr. and J. F. Levy. bibliog flow sheet diag Ind & Eng Chem 34:286-91 Mr '42

Partial pressures of ternary liquid systems and the prediction of tie lines. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:696-700 Je '42

Photochemical studies; the photochemical decomposition of benzene. J. E. Wilson and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3025-8 N '41

Reaction of methyl furoate with benzene and chlorobenzene. C. C. Price and C. F. Huber. bibliog Am Chem Soc J 64:2136-9 S '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

Solubility diagram for the system benzene—pyridine—water. J. C. Smith. bibliog J Phys Chem 46:376-80 Mr '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

See also

Benzol (commercial benzene)
Chlorobenzene
Nitrobenzene

Analysis

Analysis of toluene for benzene by an ultraviolet absorption of vapor mixtures and the determination of concentration of toluene in air by use of the Rayleigh-Jeans interference refractometer. P. A. Cole and D. W. Armstrong. Opt Soc Am J 31:740-2 D '41

Determination of small amounts of benzene in the presence of cyclohexane and of toluene in the presence of methylcyclohexane. B. B. Corson and L. J. Brady. il Ind & Eng Chem Anal ed 14:531-3 Jl 15 '42

Determination of the concentration of benzene and toluene in air by a spectroscopic method. P. A. Cole. diag Opt Soc Am J 32:304-6 My '42

Improved method of determining benzene in medium-temperature light oils. L. P. Rockenbach and D. A. Reynolds. U S Bur Mines Rep of Invest 3619:1-5 '42

BENZENE poisoning

Aplastic anemia. L. M. Meyer and V. Ginsberg. bibliog il J Ind Hygiene 24:37-8 F '42

Benzene in air; dangerous concentrations signalled. Chem Age (Lond) 47:342 O 17 '42

BENZENEARSONIC acid

Sulfophenylarsonic acids and certain of their derivatives; derivatives of *p*-sulfonamidophenylarsonic acid. E. L. Way and J. F. Oneto. Am Chem Soc J 64:1287-8 Je '42

Sulfophenylarsonic acids and certain of their derivatives; *p*-(*p*-sulfophenyl)- and *p*-(*p*-sulfonamidophenyl-phenylarsonic acids. J. F. Oneto and E. L. Way. Am Chem Soc J 63:3068-70 N '41

BENZENEAZOPHENOLS

Coupling of *m*-halogenophenols with diazotised aniline, and the existence of chromoisomerism among the 3-halogeno-4-benzeneazophenols. H. H. Hodgson and G. Turner. Chem Soc J p433-5 Jl '42

BENZENEDIAZONIUM chloride

Improved method for the preparation of benzenediazonium salts. W. Smith and C. E. Waring. Am Chem Soc J 64:469-70 F '42

BENZENESULFONYL chloride

Cyclic methyleneimines; hydrolysis of quaternary compounds; preparation of secondary amines. J. Graymore. Chem Soc J p27-30 Ja '42

BENZENETHIOL

Association effects in the Raman spectra of solutions of thiophenol in donor solvents. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 64:1230-1 My '42

BENZILIC acid

Synthetic mydriatics. F. F. Blicke and C. E. Maxwell. bibliog Am Chem Soc J 64:428-31 F '42

BENZIMIDAZOLE

Associating effect of the hydrogen atom; the N-H-N bond; benziminazoles, glyoxalines, amidines, and guanidines. L. Hunter and J. A. Marriott. Chem Soc J p777-86 N '41

Benzimidazole rule for the determination of configuration of the aldonic acids and related compounds. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1612-13 Jl '42

Oxidative degradation of L-glucoheptulose. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1609-11 Jl '42

BENZO fast yellow 5GL

Dye extremely sensitive to copper. E. I. Stearns. Ind & Eng Chem Anal ed 14:568-9 Jl 15 '42

BENZOIC acid

Association of benzoic acid in benzene. F. T. Wall and P. E. Rouse, jr. Am Chem Soc J 63:3002-5 N '41

Distribution of benzoic acid between water and benzene. F. T. Wall. Am Chem Soc J 64:472-3 F '42

Effect of substituents on the acid strength of benzoic acid; in *n*-propyl alcohol. J. H. Elliott. bibliog J Phys Chem 46:221-7 F '42

Heat of combustion of benzoic acid, with special reference to the standardization of bomb calorimeters. R. S. Jessup. bibliog J Research Nat Bur Stand 29:247-70 O '42

Liquid-liquid extraction in a perforated plate tower; effect of plate spacing on tower performance. R. E. Treybal and F. E. Dumoulin. bibliog diags Ind & Eng Chem 34:709-13 Je '42

Liquid-liquid extraction in wetted-wall and packed columns. E. W. Comings and S. W. Briggs. bibliog diags Am Inst Chem Eng Trans 38:143-77 F '42

Local anesthetics; β-monoalkylaminoethyl esters of alkoxybenzoic acids. J. S. Pierce, J. M. Salsbury and J. M. Fredericksen. Am Chem Soc J 64:1691-4 Jl '42

Preparation of some *p*-alkyl-substituted benzoic acids. A. Zaki and H. Fahim. Chem Soc J p307-8 Ap '42

Synthesis of 3,5-diethylbenzoic acid. H. R. Snyder, R. R. Adams and A. V. McIntosh, jr. bibliog Am Chem Soc J 63:3280-2 D '41

See also

Methoxybenzoyl benzoic acid

BENZOIC anhydride
Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

BENZOIN
Amperometric titration of copper with benzoinoxime. A. Langer. bibliog Ind & Eng Chem Anal ed 14:283-5 Mr 15 '42
Chromatography of *cis* and *trans* benzoin and anisoin oximes with application of the brush method. L. Zechmeister, W. H. McNeely and G. Sólyom. bibliog Am Chem Soc J 64:1922-4 Ag '42
Isomeric mandelohydrazones of benzoin. E. M. Luis and A. McKenzie. Chem Soc J p647-52 O '41

BENZOINS
Effect of methoxyl toward stabilizing enediols. R. P. Barnes and W. M. Lucas. Am Chem Soc J 64:2258-9 O '42
Preparation and properties of an ene-diol; α-*o*-methoxyphenyl-β-mesitoylacetylene glycol. R. P. Barnes and W. M. Lucas. Am Chem Soc J 64:2260-1 O '42

BENZOL (commercial benzene)
Benzole recovery at a very small gas-works. il diags Gas J (Lond) 236:389-90 D 10 '41
Benzole recovery by the oil washing process. L. Silver and G. U. Hopton. Soc Chem Ind J 61:37-45 Mr '42
Recovery of benzole by refrigeration. A. Allen. diag Gas J (Lond) 238:369-70; Discussion. 370+ Je 3 '42
Refining of benzole; patent. Gas J (Lond) 236:253 N 12 '41
Tar cracking to increase gas and benzole yield; application to continuous vertical retorts. Gas J (Lond) 238:22 Ap 1 '42
Use of benzene in industry. Chem & Eng N 20:566 Ap 25 '42
Use of benzol is safeguarded by American standard recommendations. Ind Stand 13: 99 Ap '42

BENZOPHENONE
Friedel-Crafts acylations of some sterically hindered alkylbenzenes. G. F. Hennion and S. F. deC. McLeese. Am Chem Soc J 64: 2421-2 O '42
Oxidation of benzophenone oxime. W. M. Lauer and W. S. Dyer. bibliog Am Chem Soc J 64:1453-6 Je '42

BENZOPYRAN
3-Acetoxy-6-hydroxy-2,4,5-trimethylbenzylacetoacetic ester, and its transformation into chromene and chroman derivatives. L. I. Smith and R. B. Carlin. Am Chem Soc J 64:435-40 F '42
Optically active synthetic tetrahydrocannabinols; *d*- and *l*-1-hydroxy-3-*n*-amyl-6,9, 9-trimethyl-7,8,9,10-tetrahydro-6-dibenzopyrans. R. Adams, C. M. Smith and S. Loewe. bibliog Am Chem Soc J 64:2087-9 S '42
Some analogs of synthetic tetrahydrocannabinol. G. A. Alles, R. N. Icke and G. A. Feigen. bibliog Am Chem Soc J 64:2031-5 S '42

BENZOPYRENE
Nephelometric method for determination of solubilities of extremely low order. W. W. Davis and T. V. Parke, jr. Am Chem Soc J 64:101-7 Ja '42

BENZOQUINOLINE
5-Amino- and 1-aminobenzo(f)quinolines and derivatives. E. R. Barnum and C. S. Hamilton. bibliog Am Chem Soc J 64:540-2 Mr '42

BENZOQUINONE. See Quinone

BENZOTHIAZINE
Thiazinocyanines; carbocyanines containing the 2:4-benzthiazine nucleus. B. Beilenson and F. M. Hamer. Chem Soc J p98-102 F '42

BENZOTHIAZOLE
Color and constitution; absorptions of some related vinylene-homologous series. L. G. S. Brooker and others. bibliog Am Chem Soc J 63:3192-203 N '41
Dipole moment and resonance in heterocyclic molecules containing nitrogen and sulfur. P. F. Oesper, G. L. Lewis and C. P. Smyth. bibliog Am Chem Soc J 64:1130-3 My '42
Reactions of benzthiazole derivatives; the interaction of 1-thiolbenzthiazoles and alcohols. W. H. Davies and W. A. Sexton. Chem Soc J p304-7 Ap '42

BENZOTRIAZOLE
Associating effect of the hydrogen atom; the N-H-N bond; the constitution of the benztriazoles. T. G. Heafield and L. Hunter. Chem Soc J p420-2 Jl '42

BENZOXYCHOLESTEROL
7-Benzoxysterols and their use in the preparation of 7-dehydrosterols. O. Wintersteiner and W. L. Ruigh. bibliog Am Chem Soc J 64:1177-9 My '42

BENZOYL azide
Further studies on a molecular rearrangement induced by ultrasonic waves. E. W. Barrett and C. W. Porter. Am Chem Soc J 63:3434-5 D '41

BENZOYLBENZOIC acid
Mechanism for the formation of anthraquinone from *o*-benzoylbenzoic acid. M. S. Newman. bibliog Am Chem Soc J 64:2324-5 O '42

BENZOYL chloride
Action of benzoyl chloride on ethyl β-diethylaminocrotonate. W. M. Lauer and N. H. Cromwell. Am Chem Soc J 64:612-14 Mr '42

BENZOYL formanilide
Action of Grignard reagents on benzoylformanilides. R. F. Reeves and H. G. Lindwall. Am Chem Soc J 64:1086-9 My '42

BENZOYL peroxide
Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42
Rubber, polyisoprenes, and allied compounds; the molecule-linking capacity of free radicals and its bearing on the mechanism of vulcanisation and photo-gelling reactions. E. H. Farmer and S. E. Michael. Chem Soc J p513-19 Ag '42

BENZOYL persulfide
Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

BENZOYLATION
Action of benzoyl chloride on ethyl β-diethylaminocrotonate. W. M. Lauer and N. H. Cromwell. Am Chem Soc J 64:612-14 Mr '42
Acylation of 1,4-dimesityl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:1375-7 Je '42
Benz*cyclo*octatetraenes; the action of acetic anhydride on δ-benzylidenelævulic acids. W. S. Rapson and R. G. Shuttleworth. Chem Soc J p33-5 Ja '42
Reactions of perinaphthane derivatives. L. F. Fieser and L. W. Newton. bibliog Am Chem Soc J 64:917-21 Ap '42
Study of the action of an aluminum-aluminum chloride catalyst in Friedel-Crafts reactions; benzoylation. O. Grummitt and E. N. Case. bibliog Am Chem Soc J 64: 878-80 Ap '42

BENZYL chloride. See Chlorotoluene

BENZYL compounds
Certain derivatives of the octadecenoic acids; *p*-phenylphenacyl esters; the S-benzylthiuronium salts. J. P. Kass, J. Nichols and G. O. Burr. bibliog Am Chem Soc J 64:1061-2 My '42

BENZYLIDENELEVULIC acid
Benz*cyclo*octatetraenes; the action of acetic anhydride on δ-benzylidenelævulic acids. W. S. Rapson and R. G. Shuttleworth. Chem Soc J p33-5 Ja '42

BENZYL nitrate
Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

BENZYLTHIURONIUM chloride
Identification of alcohols and alkyl hydrogen sulfates with S-benzylthiuronium chloride. R. K. Bair and C. M. Suter. Am Chem Soc J 64:1978 Ag '42

BEQUEST insurance. See Insurance, Bequest

BERGER, Samuel D.
Portrait. Business Week p14 Ap 11 '42

BERGH, Henry, 1813-1888
Angel in top hat. Z. Steele. 319p bibliog(p303-9) $3.50 Harper '42

BERKEY, Charles Peter, 1867-
Portrait. Geol Soc Proc 1941:front Mr '42

BERLIN

Bourse

Opposing war markets in similar trends; German stock prices, like those of Britain, reflecting stabilized earnings and favorable yields. B. Ravits. Barron's 22:5 My 25 '42

BERMAN, Eugene, 1889-
Twelve artists in U.S. exile. Fortune 24:111 D '41

BERMUDA

Economic conditions

News by countries. For Comm W 5:9 N 29 '41; 9:12-13 O 31 '42

BERRY, George L.
Heads National graphic arts emergency council. por Inland Ptr 108:75-6 F '42

BERRY, Peter J. 1896-
Sketch. por East Underw 43:22 Je 5 '42

BERYL
Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

BERYLLIUM
Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41
Energy of gamma-rays accompanying the decay of Be^7. I. Zlotowski and J. H. Williams. bibliog Phys R 62:29-32 Jl 1 '42
Experimental evidence for the existence of a neutrino. J. S. Allen. bibliog diag Phys R 61:692-7 Je 1 '42
Far ultraviolet reflectivities of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42
Improved X-ray tube for diffraction analysis. R. R. Machlett. il diags J Ap Phys 13:398-401 Je '42
Malleable beryllium; research to secure thin vacuum-tight beryllium for windows of X-ray tubes. G. E. Claussen and J. W. Skehan. bibliog il diag Metals & Alloys 15:599-603 Ap '42
Optical dispersion of copper and beryllium. M. P. Givens. bibliog diag Phys R 61:626-30 My 1 '42
Photodisintegration of beryllium and deuterium. F. E. Myers and L. C. Van Atta. bibliog diags Phys R 61:19-22 Ja 1 '42

Analysis

Fluorescent tests for beryllium and thorium. C. E. White and C. S. Lowe. Ind & Eng Chem Anal ed 13:809-10 N 15 '41

BERYLLIUM alloys
Alloys for springs; development of beryllium-bronze. Chem Age (Lond) 46:7-8 Ja 3 '42
Beryllium alloys in aviation. E. B. Wilford. il Aviation 41:92-3+ Ja '42
Beryllium copper. Electrician 129:42 Jl 10 '42; Same. Chem Age (Lond) 47:112 Ag 1 '42
High-conductivity beryllium-cobalt-copper alloy. Engineering 153:287 Ap 10 '42
Malleable beryllium; research to secure thin vacuum-tight beryllium for windows of X-ray tubes. G. E. Claussen and J. W. Skehan. bibliog il diag Metals & Alloys 15:599-603 Ap '42
Materials for springs for electric equipment. P. M. G. Thorpe. il Elec R (Lond) 130:465-7 Ap 10 '42
Springs of beryllium copper. R. W. Carson. il Aero Digest 41:150, 153+ Jl '42; Excerpts. Metals & Alloys 16:344+ Ag '42

BERYLLIUM iodide
Catalytic decomposition of hydrogen peroxide by basic beryllium iodide hydrosols. B. Cohen. bibliog Am Chem Soc J 64:1340-1 Je '42

BERYLLIUM oxides
Beryllium oxide and its applications. Engineering 153:344 My 1 '42
Glassforming nature of oxides with special reference to tantala, titania, and beryllia. K. Sun and A. Silverman. bibliog Am Cer Soc J 25:97-100 F 15 '42

BESSEMER, Sir Henry, 1813-1898
Bessemer's start; producing powdered metals. Comp Air M 46:6624 D '41

BESSEMER and Lake Erie railroad
Consolidated comparative income account, 1940 and 1941. Comm & Fin Chr 155:1915 My 18 '42

BESSEMER process
Acid and basic Bessemer refractories. J. H. Chesters. bibliog il diags Iron Age 150:43-8 N 5; 58-64 N 12 '42
Bessemer converter can be used to control the price of scrap. J. O. Griggs. il Blast F & Steel Pl 30:1123-5+ O '42
Converter cast steel will meet requirements. C. E. Sims and F. B. Dahle. bibliog Foundry 70:88-9+ S '42; Same. Steel 111:125-6+ S 14 '42; Abstract. Metals & Alloys 16:71-7 Jl '42
Converters can expand steel production for castings; abstract. C. E. Sims and F. B. Dahle. Steel 111:86 Jl 6 '42
Efforts to make a lady out of Bessemer steel in the foundry. A. H. Allen. il Foundry 70:76, 78 Je '42
Examination of the oxygen content of a basic Bessemer rimming steel. T. Swinden and W. W. Stevenson. diag Iron & Steel Inst J 143:375-80, pl 49 no 1 '41
Rising interest observed in Bessemer process for steel castings; abstract. M. F. Becker. Foundry 70:151 Mr '42
Significance of the Bessemer end point; abstract. H. T. Bowman. Iron Age 149:55-7 F 19 '42
Small Bessemers may ease steel casting shortage, help foundries. W. A. Phair. il Iron Age 150:88-91 Jl 23 '42
Some recent trends in steel manufacture. G. A. V. Russell. Engineering 153:178 F 27 '42

BETA rays
Absence of high energy beta-rays from Br^{82}. M. Deutsch. diag Phys R 61:672 My 1 '42
Beta-ray spectra of arsenic, rubidium, and krypton. G. L. Weil. bibliog diag Phys R 62:229-37 S 1 '42
β-ray spectra of $rubidium^{86}$, $strontium^{89}$, ekatantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42
Beta-ray spectra of scandium. G. P. Smith. bibliog Phys R 61:578-83 My 1 '42
Characteristic radiations of Co^{60}. M. E. Nelson, M. L. Pool and J. D. Kurbatov. bibliog Phys R 62:1-3 Jl 1 '42
Disintegration schemes of radioactive substances; I^{131}. J. R. Downing, M. Deutsch and A. Roberts. bibliog Phys R 61:686-91 Je 1 '42
Electromagnetic mechanism of the beta phosphorescence of fluorescein in acid solution. S. I. Weissman and D. Lipkin. bibliog il diags Am Chem Soc J 64:1916-18 Ag '42
Forbidden transitions in β-decay and orbital electron capture and spins of nuclei. R. E. Marshak. bibliog Phys R 61:431-49 Ap 1 '42
Magnetic field measurement in beta-ray spectroscopy. J. M. Cork and W. G. Wadey. diag R Sci Instr 13:369 Ag '42
Permanent magnet β-ray spectrograph. E. H. Plesset, G. P. Harnwell and F. G. P. Seidl. il diag R Sci Instr 13:351-61 Ag '42

BETA rays—*Continued*

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

Theoretical half-lives of β-activities. C. L. Critchfield. bibliog Phys R 61:249-54 Mr 1 '42

Theoretical half-lives of forbidden β-transitions; RaE, P^{32}, K^{40}, and Rb^{87}. E. Greuling. bibliog Phys R 61:568-77 My 1 '42

BETAINE

Interaction of betaine with primary aromatic amines, organic disulphides, and sodium sulphite. F. Challenger, P. Taylor and B. Taylor. Chem Soc J p48-55 Ja '42

BETATRON. See Electron accelerator

BETHANIZING. See Zinc plating

BETHESDA, Maryland

Naval medical center

Architectural concrete on the new Naval medical center. H. C. Fischer. il diags plans Am Concrete Inst J 13:289-311 F '42

BETHLEHEM-FAIRFIELD shipyard, incorporated

Production system. il diags plans Marine Eng 47:178-97 O '42

BETHLEHEM shipbuilding corporation

Supreme court in Bethlehem shipbuilding case rules that Congress can draft business. Comm & Fin Chr 155:745+ F 19 '42

BETHLEHEM steel corporation

Annual report. Comm & Fin Chr 155:1116-17 Mr 16 '42

Bethlehem's report to employes stresses need for peak production. E. G. Grace. il Steel 110:33+ Mr 9 '42

Latest earnings reports. H. Lawrence. Barron's 22:20 N 9 '42

Preliminary report for 1941. Comm & Fin Chr 155:498 Ja 31 '42

Upheld by U.S. Supreme court on 1917-18 war profits. Comm & Fin Chr 155:820 F 24 '42

BETTING

Betting in wartime. Economist 142:457-8 Ap 4 '42

BETULIC acid

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

BEVERAGES

Bottlers examine defense position. Food Ind 13:77 D '41

Conditions encountered in filling pressure ware. J. M. Sharf. Am Cer Soc J 25:228-30 My 1 '42

Food official reviews wartime problems of bottlers; objectionable character of saccharin and of copper contamination. H. C. Lythgoe. il Food Ind 14:47-8 Je '42

How caffeine restrictions affect cola drink manufacturers. Barron's 22:9 S 21 '42

How new tire restrictions affect the soft drink industry. Barron's 22:12 Jl 27 '42

How sugar rationing affects soft drink producers. Barron's 22:12 Ja 19 '42

How will sugar rationing hit soft drink budgets? S. R. Kaplan. il Adv & Sell 35:15-16+ Mr '42

Prosperity fizz; soft-drink industry isn't worried over war. Business Week p34+ N 29 '41

Reviving the zest for selling after a wage adjustment; Nehi of Los Angeles and its driver-salesmen. G. E. Silver. il Sales Management 49:48-9+ D 1 '41

Soft drinks concentration. Economist 143:24 Jl 4 '42

Traveling laboratory control of bottlers' operation; Coca-Cola company. B. Wells. il Am Water Works Assn J 34:1035-41 Jl '42; Same. Water & Sewage 80:23-4+ Jl '42

See also

Beer
Bottle caps and seals
Bottling
Bottling plants
Cocoa
Coffee
Fruit juices
Liquors
Orange juice
Tea
Whisky
Wine

BIACETYL. See Diacetyl

BIBLIOGRAPHY

Bibliographical manual for students of the language and literature of England and the United States. J. W. Spargo, comp. 2d ed 260p $1.50 Packard and co, 727 S. Dearborn st, Chicago '41

Book review digest; thirty-seventh annual cumulation, March 1941 to February 1942 inclusive, with cumulated index, 1937-1941. 1551p Wilson, H.W. '42

Work of Frederick Leypoldt, bibliographer and publisher. J. W. Beswick. 102p R. R. Bowker co, New York '42

See also

Periodicals—Indexes

also subdivision Bibliography under special subjects, e.g.

Accounting
Aeronautics
Business
Ceramics
Chemistry, Technical
Civil engineering
Engineering
Geology
Iron
Labor and laboring classes
Lighting
Metallurgy
Paper making
Periodicals
Petroleum
Physics
Radio communication
Reference books
Reprints
Rubber
Steel
Textile fabrics
Waterworks

Best books

Growing with books; a reading guide. N. Beust and others. rev ed 206p; Curriculum supplement. J. M. Lee. 30p pa $1 Cadmus books, 358 W. 16th st, New York '42

Standard catalog for high school libraries. I. S. Monro and R. Jervis, eds. 4th ed 1150p Wilson, H.W. '42

Bibliography

Bibliographic index; a cumulative bibliography of bibliographies, 1941. 440p Wilson, H.W. '42

Current national bibliographies. L. Heyl, comp. rev ed 19 numb l pa 75c Am. lib. assn, Chicago '42

Selected bibliography of bibliographies on subjects related to national defense. C. P. Dunbar. 29p Bur. of educational research, University station, Baton Rouge, La. '42

BIBLIOGRAPHY, National

Bibliography

Current national bibliographies; a list of sources of information concerning current books of all countries. L. Heyl, comp. rev ed 19p pa 75c Am. lib. assn, 520 N. Michigan av, Chicago '42

BICYCLE insurance. See Insurance, Bicycle

BICYCLES

Bicycle manufacture cut. Comm & Fin Chr 155:1249 Mr 26 '42

Bicycles, motorcycles answer tire-gas rations; utilities adopt two-wheeled vehicles. il Elec W 117:1890 My 30 '42

Brake on bikes; monthly output cut to 10,000 victory cycles. Business Week p48+ O 3 '42

Canadian bicycle industry. For Comm W 5: 39-40 N 15 '41

Pennsylvania railroad installs bike stand for commuters. Ry Age 112:670 Mr 28 '42

Rationing cuts bicycle sales below 1931 level; pictograph. Sales Management 51:34 O 20 '42

Rubber suspension; the application of conical torsion disc units to cycles and motor cycles. C. Macbeth. il diags Automobile Eng 32:151-5, 195-8 Ap-My '42

WPB freezes bicycles. Comm & Fin Chr 155: 1635 Ap 23 '42

Rating

Bicycles; they come back into American life. il diag Consumers' Research Bul 9:3-10 Ap '42

BICYCLES—*Continued*

Rationing

Bicycle rationing begun. Comm & Fin Chr 156:183 Jl 16 '42

BIDDING, Competitive

See also
Securities—Marketing

BIGELOW-SANFORD carpet company

Another look at your company. Mag of Wall St 70:77 My 2 '42

Changing over to war production. E. I. Petersen. il Factory Management 100:101-2+ Ag '42

BIGGERS, John David, 1888-

President of the Libbey-Owens-Ford glass co., Toledo. por Am Cer Soc Bul 21:157-8 Ag 15 '42

BIJUR, George

Gallery. A. Leokum. por Adv & Sell 35:28+ My '42

BILE

Analysis

Determination of carbonyl groups in bile preparations. A. E. Light. Ind & Eng Chem Anal ed 14:42-3 Ja 15 '42

BILE acids

Dipole moments of some bile acids. W. D. Kumler and I. F. Halverstadt. Am Chem Soc J 64:1941-3 Ag '42

BILLBOARDS

Poster problem; North Carolina eradicating something like 60,000 roadside signs. Business Week p40-1 D 27 '41

Roadside protection, a study of the problem and a zoning legislative guide. 55p pa 20c Am. automobile assn, Washington, D.C. '41

See also
Advertising, Outdoor
Posters

BILLING

Automatic typing in the billing department; Larrowe milling company, Detroit. il Am Business 12:30-2+ Mr '42

Billing procedure for a group of small plants. W. H. Ogden. il Am Water Works Assn J 33:2201-6 D '41

Customer billing safeguards against errors. M. F. Young. Am Gas Assn Mo 23:440-1 D '41

How to get army transportation bills paid. il Bus Transportation 20:544-6 N '41

Midwest companies to adopt bi-monthly billing. Elec W News ed 118:1357 O 24 '42

Proofs employed and statistics compiled in service billing operations. G. W. Fuchs. il Am Gas Assn Proc 1941:183-94

Quarterly meter reading with monthly billing. J. A. Williams. il Edison Elec Inst Bul 10: 293-4 Ag '42

Survey of billing and collection practices of cities of 100,000-200,000 population. G. F. Hughes. Am Water Works Assn J 34:1527-32 O '42

See also
Collecting of accounts
Invoices

BILLINGS, Montana

Water supply

Building a three-million-gallon concrete reservoir. A. L. Hewett. il Pub Works 73:17-18 Mr '42

BIMETAL. See Thermostats

BINDING energy

Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

Tensor forces and heavy nuclei. G. M. Volkoff. bibliog Phys R 62:126-33 Ag 1 '42

Tensor forces and the theory of light nuclei; properties of H^3 and He^4. E. Gerjuoy and J. Schwinger. Phys R 61:138-46 F 1 '42

BINDING materials

See also
Abrasives
Adhesives
Road materials
Shellac

BINOCULARS. See Field glasses

BINS

Bins for small parts. il Dom Eng 159:68 Ja '42

Mobilising your stores to store more; mobile storage bins. plan Mech Handling 29:190 O '42

Reinforced tile grain storage bins; Speed tile with waterproofed mortar makes moisture-proof bins. E. W. Manthey. il Brick & Clay Rec 101:21-2 S '42

Tests reveal performance of grain bin ventilating cowls; abstract. C. F. Kelly, M. G. Cropsey and W. R. Swanson. il Heat & Ven 39:40 S '42

See also
Ore bins

BINS, Concrete

See also
Coal bins, Concrete

BINS, Steel

Utilization of wood refuse for steam raising. R. B. Gillham. Inst Mech Eng J & Proc 147:Proc 32-9, pl 1-2 Ap '42; Same cond. Engineer 173:71-3 Ja 23 '42; Same cond. Engineering 153:198-200 Mr 6 '42; Discussion. diags Inst Mech Eng J & Proc 147: Proc 40-8 Ap '42

BINS, Wood

Dept. of agriculture buys grain storage bins. Am Bld 64:20 Jl '42

Maybe this will solve your storage problem; plywood storage bin. il diags Food Ind 14: 62-3 O '42

BIOCHEMICAL oxygen demand

Present status of tests for organic pollution loads. A. M. Buswell and E. C. Dunlop. Am Water Works Assn J 34:1063-72 bibliog(43 titles, p1071-2) Jl '42

BIOCHEMISTRY. See Biological chemistry

BIOGRAPHY

Careers in the making; second series; readings in modern biography as studies in vocational guidance. I. R. Logie, ed. 243p bibliog(p233-43) Harper '42

Current biography; who's news and why, 1941. 976p Wilson, H.W. '41

Giants in dressing gowns. J. B. Arnold. 240p $3 Argus books, 16 N. Michigan av, Chicago '42

Heroes I have known; twelve who lived great lives. M. Eastman. 326p $3 Simon & Schuster '42

Not all warriors; portraits of 19th century West Pointers who gained fame in other than military fields. W. Baumer, jr. 313p bibliog(p305-9) $2.50 Smith & Durrell, New York '41

Van Loon's lives. H. W. van Loon. 886p $3.95 Simon & Schuster '42

Bibliography

Recent medical biographies and autobiographies. C. D. Leake. Science 96:297-300 S 25 '42

Dictionaries

International who's who, 1942. 7th ed 1012p 80s Europa publications, 109 Clarence Gate gardens, London, NW 1 '42

Who's who in philosophy; v. 1, Anglo-American philosophers. D. D. Runes, ed. 293p $4.50 Philosophical lib, New York '42

BIOLOGICAL abstracts (periodical)

Biological abstracts. Science 96:398 O 30 '42

BIOLOGICAL apparatus

Apparatus for vacuum drying in the frozen state. E. E. Hays and F. C. Koch. diag Science 95:633 Je 19 '42

Egg inoculator and shell membrane teaser for virus culture. W. B. Dunham. il Science 95:609 Je 12 '42

See also
Microscope and microscopy

BIOLOGICAL assay

Determination of thiamine in vegetables. J. C. Moyer and D. K. Tressler. bibliog Ind & Eng Chem Anal ed 14:788-90 O 15 '42

BIOLOGICAL chemistry

Biochemical influence of phosphorus and potassium. S. N. Farmer. bibliog Chem & Ind 61:3-4 Ja 3 '42

Biochemical society annual general meeting; abstracts of papers. Chem & Ind 61:169-70 Ap 11 '42

Biochemistry for medical students. W. V. Thorpe. 2d ed 464p bibliog(p440-2) $4.50 Wood '40

Dynamic state of body constituents. R. Schoenheimer. 78p bibliog(p67-78) $1.75 Harvard univ. press '42

Equilibrium thermodynamics and biological chemistry. G. Scatchard. Science 95:27-32 Ja 9 '42

Introduction to biochemistry. W. R. Fearon. 2d ed 475p $3.75 C. V. Mosby co, St Louis '40

Laboratory manual of biochemistry. B. Harrow and others. 119p pa $1.50 Saunders '40

New theory of the origin and nature of life; that emanations from volcanoes, sulfurous, cyanic and ammoniacal, produce microorganisms by chemical synthesis. A. L. Herrera. Science 96:14 Jl 3 '42; Discussion. J. Alexander. 96:252-3 S 11 '42

Optical activity and living matter. G. F. Gause. 162p bibliog(p133-53) $2.75 Biodynamica, Normandy, Mo. '41

Social implications of vitamins. R. R. Williams. Science 94:471-5, 502-6 N 21-28 '41

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

Studies on biological methylation; a summary of recent work and some hypotheses regarding its mechanism. F. Challenger. Chem & Ind 61:397-9, 413-15 S 26, O 10 '42

Vitamins in the future. R. J. Williams. Science 95:340-4 Ap 3 '42

See also

Antigens and antibodies
Bacteria
Bacteriology
Biological materials—Analysis
Blood
Botanical chemistry
Cells
Chlorophyl
Colchicine
Enzymes
Hormones
Immunity
Metabolism
Muscle
Nutrition
Physiological chemistry
Plant growth
Plants—Chemical analysis
Proteins
Tissues
Vitamins
Water in the body

BIOLOGICAL instruments

Physical instruments for the biologist. Published in monthly numbers of Review of scientific instruments

BIOLOGICAL laboratories

See also Yerkes laboratories of primate biology, Orange Park, Florida

Air conditioning

Dr Salsbury's laboratories; manufacturer of livestock and poultry vaccines and bacterins; air conditioning important. il Heat & Ven 39:32-3 F '42

Equipment

Test-tube spiral absorption vessel plant respiration measurements. R. E. Girton. diag Science 95:25-6 Ja 2 '42

BIOLOGICAL libraries

See also Marine biological laboratory, Woods Hole, Massachusetts—Library

BIOLOGICAL literature

Growth of primate literature since 1800. T. C. Ruch and J. F. Fulton. Science 95:47-8 Ja 9 '42

BIOLOGICAL luminescence. See Luminescence, Biological

BIOLOGICAL materials

Analysis

Colorimetric determination of phosphorus in biological materials. R. A. Koenig and C. R. Johnson. Ind & Eng Chem Anal ed 14:155-6 F 15 '42

Determination of arsenic in biological material; a photometric method. D. M. Hubbard. bibliog il Ind & Eng Chem Anal ed 13:915-18 D 15 '41

Determination of certain quercetinlike substances using a Klett-Summerson photoelectric colorimeter. C. W. Wilson, L. S. Weatherby and W. Z. Bock. Ind & Eng Chem Anal ed 14:425-6 My 15 '42

Determination of vitamin B_1 by yeast fermentation method; improvements related to use of sulfite cleavage and a new fermentometer. A. S. Schultz, L. Atkin and C. N. Frey. bibliog il Ind & Eng Chem Anal ed 14:35-9 Ja 15 '42

Film balance as an analytical tool for biological and food research. G. E. Boyd and W. D. Harkins. bibliog il diags Ind & Eng Chem Anal ed 14:496-502 Je 15 '42

Indirect polarographic determination of phosphorus in biological material. A. Stern. bibliog Ind & Eng Chem Anal ed 14:74-7 Ja 15 '42

Method for determination of ethyl alcohol for medicolegal purposes. F. L. Kozelka and C. H. Hine. bibliog diags Ind & Eng Chem Anal ed 13:905-7 D 15 '41

Polarographic determination of arsenic in biological material. K. Bambach. bibliog Ind & Eng Chem Anal ed 14:265-7 Mr 15 '42

Spectrochemical determination of trace metals in biological material. J. Cholak and R. V. Story. bibliog il Opt Soc Am J 31:730-8 D '41

See also

Blood—Analysis
Urine—Analysis

BIOLOGICAL physics

Optical activity and living matter. G. F. Gause. 162p bibliog(p133-53) $2.75 Biodynamica, Normandy, Mo. '41

BIOLOGICAL products

See also

Serum
Toxins and antitoxins
Viruses

BIOLOGICAL research

As boundaries break; how biology draws upon physics and chemistry for the solution of new borderline problems. F. O. Schmitt. il Tech R 44:263-5+ Ap '42

Basic mechanism in the biological effects of temperature, pressure and narcotics. F. H. Johnson, D. Brown and D. Marsland. Science 95:200-3 F 20 '42

Biological research institute of the Zoological society of San Diego. Science 95:451 My 1 '42

Biology and medicine in the war. J. E. Hawkins, jr. Science 95:507-8 My 15 '42

Film balance as an analytical tool for biological and food research. G. E. Boyd and W. D. Harkins. bibliog il diags Ind & Eng Chem Anal ed 14:496-502 Je 15 '42

Method for investigating the thickness, chemical properties, and surface structure of thin biological objects. D. F. Waugh. bibliog il diag Opt Soc Am J 32:495-502 S '42

Molecular films, the cyclotron and the new biology. H. S. Taylor, E. O. Lawrence and I. Langmuir. 95p $1.25 Rutgers univ. press, New Brunswick, N.J. '42

Physics scores an assist; particle detector, with cyclotron, gives medicine a powerful tool. J. V. Sheppard. il Sci Am 165:315-17 D '41

See also

Microscope and microscopy
National research council
Yerkes laboratories of primate biology, Orange Park, Florida

BIOLOGICAL societies
See also
Union of American biological societies

BIOLOGY
Higher levels of integration. R. W. Gerard. Science 95:309-13 Mr 27 '42
Transition from the individual to the social level. H. S. Jennings. bibliog Science 94:447-53 N 14 '41
See also
Bacteriology
Biological chemistry
Blood
Botany
Cells
Heredity
Marine biology
Metabolism
Microorganisms
Microscope and microscopy
Plant cells and tissues
Plants
Zoology

Study and teaching

Training of biologists. P. Weiss. Science 95:32-4 Ja 9 '42

Terminology

Use of generic names as common nouns. S. O. Mast. Science 96:252 S 11 '42

BIOMETRICIANS, Western society of. See Western society of biometricians

BIOMICROSCOPY. See Microscope and microscopy

BIOT, Jean Baptiste, 1774-1862
Origin of the Clerget method. C. A. Browne. por Chem & Eng N 20:322-4 Mr 10 '42

BIOTIN
Biosynthesis of biotin. R. E. Eakin and E. A. Eakin. bibliog Science 96:187-8 Ag 21 '42
Biotin deficiency and other changes in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. F. S. Daft, L. L. Ashburn and W. H. Sebrell. bibliog Science 96:321-2 O 2 '42
Extraction of biotin from tissues. R. C. Thompson, R. E. Eakin and R. J. Williams. bibliog Science 94:589-90 D 19 '41
Formation of adipic acid by the oxidative degradation of the diaminocarboxylic acid derived from biotin. K. Hofmann, D. B. Melville and V. du Vigneaud. Am Chem Soc J 63:3237-8 N '41
Growth-stimulating effect of biotin for the diphtheria bacillus in the absence of pimelic acid. V. du Vigneaud and others. Science 96:186-7 Ag 21 '42
Pimelic acid, biotin and certain fungi. W. J. Robbins and R. Ma. Science 96:406-7 O 30 '42
Preliminary observations on egg white injury in man and its cure with a biotin concentrate. V. P. Sydenstricker and others. Science 95:176-7 F 13 '42
Procarcinogenic effect of biotin in butter yellow tumor formation. V. du Vigneaud and others. bibliog Science 95:174-6 F 13 '42
Some X-ray diffraction measurements on biotin. I. Fankuchen. Am Chem Soc J 64:1742-3 Jl '42
Structure of biotin. V. du Vigneaud, K. Hofmann and D. B. Melville. Am Chem Soc J 64:188-9 Ja '42

Bibliography

Biotin. 49 numb l Merck & co, Rahway, N.J. '42

BIPHENYL. See Diphenyl

BIPHENYLENE
Absorption spectrum of biphenylene. E. P. Carr, L. W. Pickett and D. Voris. Am Chem Soc J 63:3231-2 N '41
1,8-Dimethyl and 2,7-dimethoxybiphenylene. W. C. Lothrop. bibliog Am Chem Soc J 64:1698-1700 Jl '42

BIRCH
Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41
Industrial uses of chemicals and related materials; white birch. Oil Paint & Drug Rep 140:34 D 22 '41

BIRDS
See also
Aviation—Bird hazards
Swallows

Flight

Biological and aerodynamical problems of animal flight. E. von Holst and D. Kuchemann. diags Roy Aeronautical Soc J 46:39-56 F '42

BIRDS, Fossil
Fossil birds of California; an avifauna and bibliography with annotations. L. Miller and I. DeMay. 142p pa $1 Univ. of California press, Berkeley '42
Two new fossil birds from the oligocene of South Dakota. A. Wetmore. il Smithsonian Misc Coll v 101, no 14:1-6 '42

BIRINGUCCI, Vannoccio, 1480-1539
Important event in mining and metallurgical literature; publication of the Pirotechnia. F. T. Sisco. Min & Met 23:558-9 N '42

BIRKHOFF, George David, 1884-
Portrait. Fortune 25:64 Ap '42

BIRMINGHAM, Alabama

Water supply

Comparison of estimated and actual consumption from the Birmingham industrial water supply system. A. C. Decker. Am Water Works Assn J 34:569-71 Ap '42

BIRMINGHAM, England
When we build again; a study based on research into conditions of living and working in Birmingham. 138p $3 Norton '42

BIRMINGHAM electric company
4.34% yield on Birmingham Electric first 4½s, 1968. Barron's 22:15-16 O 12 '42

BIRTH certificates
Birth certificates; a digest of the laws and regulations of the various states. E. H. Davis. 136p $1.50 Wilson, H.W. '42
Birth certificates no longer required to prove citizenship for war jobs. Comm & Fin Chr 156:295 Jl 23 '42

BIRTH rate
Birth-rate figures for every 10,000 of population; pictograph. Sales Management 50:39 F 15 '42
Birth rate; forecasts for Great Britain. Economist 142:749-50 My 30 '42
Birth rates and the interwar business cycles. V. L. Galbraith and D. S. Thomas. bibliog Am Statis Assn J 36:465-76 D '41
Marriages and births. Economist 143:364 S 19 '42
Measures to increase birth rate in Germany. Monthly Labor R 54:75 Ja '42
More babies but turn is expected. Business Week p62+ O 10 '42
Population trends; decline in the birthrate. Economist 143:40-1 Jl 11 '42

BISCUITS
Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42
Biscuit, cracker bakers discuss war problems. Food Ind 14:86 Jl '42
Loose-Wiles aqua-proof seal for weatherproof solid-fibre shipping container. il Mod Packaging 16:42-4 O '42

BISMUTH
Addition of bismuth for producing free-machining stainless steels. H. Pray, R. S. Peoples and F. W. Fink. Am Soc T M Proc 41:646-55 '41; Abstract. Steel 109:90+ D 1 '41; Discussion. il Am Soc T M Proc 41:656-8 '41
Artificial radioactive isotopes of thallium, lead, and bismuth. K. Fajans and A. F. Voigt. Phys R 60:619-25 N 1 '41
Low-tin solders; containing silver and bismuth. S. Turkus and A. A. Smith, jr. il Metals & Alloys 15:412-13 Mr '42
Photoelectric properties of bismuth. H. Jupnik. bibliog diags Phys R 60:884-9 D 15 '41
Thermodynamic study of the tin-bismuth system. H. Seltz and F. J. Dunkerley. bibliog diag Am Chem Soc J 64:1392-5 Je '42

BISMUTH—*Continued*

Analysis

Iodobismuthite determination of bismuth in biological samples; application of neutral wedge photometer. C. J. W. Wiegand, G. H. Lann and F. V. Kalich. bibliog Ind & Eng Chem 13:912-15 D 15 '41

Polarographic studies; determination of antimony and bismuth. J. E. Page and F. A. Robinson. diag Soc Chem Ind J 61:93-6 Je '42

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

Separation of bismuth from lead with ammonium formate. S. Kallmann. bibliog Ind & Eng Chem Anal ed 13:897-900 D 15 '41

Volumetric determination of bismuth as caffeine tetraiodobismuthate (III). R. S. Beale and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14:43-4 Ja 15 '42

BISMUTH alloys

Adaption of Castaloy fixtures to airplane production requirements. H. G. Groehn. il Aero Digest 41:197-8, 201-2, 207+ S '42

Castaloy fixtures unify aircraft production; tools, fixtures and gages made from Cerrobend. C. S. Ricker. il Aviation 41:106-9 Ag '42

Low temperature metal for proof-casts and protective coating; Cerrosafe. il Iron Age 150:64 N 12 '42

Precision pipe bending, using Cerrobend, low melting point alloy; Blackburn aircraft, ltd. il Iron Age 150:79 O 22 '42

War products consultation; strategic materials used in type metal; suggested use of bismuth. il Metal Prog 41:499-500 Ap '42

BISMUTH compounds

Organobismuth compounds. H. Gilman and H. L. Yale. Chem R 30:281-320 bibliog(p317-20) Ap '42

Oxidation of triethylbismuth. G. Calingaert, H. Soroos and V. Hnizda. diags Am Chem Soc J 64:392-7 F '42

BISON, American

Post-glacial climatic amelioration and the extinction of bison taylori. L. C. Eiseley. bibliog Science 95:646-7 Je 26 '42

BITS

Bit depth gaged for reflector buttons required on poles. diag Elec W 118:158 Jl 11 '42

Cost study shows value of designed bit program. Oil & Gas J 41:67 O 22 '42

Detachable rock-drill bits at the Hollinger mine; with cost data. A. H. Wohlrab. bibliog il diags Can Min J 63:151-6 Mr '42

Gage checks tool bits. M. H. Ball. diag Am Mach 86:714 Jl 9 '42

BITUMEN

Mechanical behaviour of bitumen. W. Lethersich. bibliog diags Soc Chem Ind J 61:101-8 Jl '42

Oldest plastic; bitumen still can be improved; abstract. C. Mack. Sci Am 165:338-9 D '41

BITUMINOUS casualty corporation

Completes 25 successful years. Weekly Underw 146:234 Ja 24 '42

BITUMINOUS materials

Asphalt protective coating for steel water pipes. A. H. Benedict. il Eng N 128:327-9 F 26 '42

Bituminous emulsions; preparation and properties; abstract. H. Nüssel. Chem & Met Eng 49:156-7 Ja '42

Experience with bituminous primer for dust-suppression treatment on gravel or traffic-bound roads. J. Sears. il Roads & Bridges 80:25-7, 58+ Ap '42

Flow tests on thirty-inch steel pipe, lined with bitumastic enamel in 1932. J. D. Carpenter and G. M. Roads, jr. N E Water Works Assn J 56:8-13 Mr '42

How to secure certificate of necessity for bituminous materials. Roads & Sts 85:64-5 My '42

Nickel and copper in bitumens; abstract. G. A. Fester and J. Cruellas. Chem & Met Eng 49:167 Ag '42

Use of bitumen in soil stabilization. H. Gardner. pls diags Inst Pet J 27:329-43; Discussion. 344-7 O '41

Use of bituminous materials restricted in 21 additional states. Roads & Sts 85:31 Jl '42

Wartime requirements for asphalt. G. Abson. Nat Pet N 34:R60+ F 18 '42

See also
Asphalt
Oil shales
Pavements, Bituminous
Road tar
Roads, Bituminous

Analysis

Rapid method of determining the binder and water contents of sand-bitumen and sand-tar carpets. C. M. Gough and E. H. Green. diag Soc Chem Ind J 61:91-3 Je '42

Testing

Effect of glassy slag on the stability and resistance to film stripping of bituminous paving mixtures. Pub Roads 22:209-12 N '41

Viscosity of liquid road asphalts measured in terms of scientific units; use of capillary-rise viscosimeter. J. Zapata, A. Rode and W. Doyle. il Eng N 128:915-17 Je 4 '42

See also
Asphalt—Testing

BITUMINOUS roads. See Roads, Bituminous

BIURET

Narcotic potency of biurets containing piperidine. H. H. Anderson and others. bibliog Science 95:254-6 Mr 6 '42

BIXIN

New stereoisomers of methylbixin. L. Zechmeister and R. B. Escue. Science 96:229-30 S 4 '42

BLACK, Ernest Bateman, 1882-

Portrait. Eng N 128:155 Ja 22 '42

Sketch. por Civil Eng 11:735; 12:107-8 D '41, F '42

BLACK

Black and white effects by dyeing methods; dyes fast to wet processing: clearing stained fibers. S. Yates. Textile Col 63:642-4 N '41

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

See also
Aniline black
Carbon black
Logwood

BLACK and Decker manufacturing company

Another look at your company. Mag of Wall St 70:234 Je 13 '42

BLACK HILLS, South Dakota

Amphibolites of the lead area, northern Black Hills. T. A. Dodge. bibliog maps Geol Soc Bul 53:561-83, pl 1-5 Ap '42

BLACK liquor. See Paper mills—Waste

BLACKBOARDS

Picture projection on blackboards in illuminated rooms. H. E. Dance. il Engineering 153:421-2 My 29 '42

BLACKMER, Henry M.

Freeze Blackmer assets. Comm & Fin Chr 156:112 Jl 9 '42

BLACKOUT awnings. See Awnings

BLACKOUT lamps. See Electric lamps, Blackout

BLACKOUT paint. See Paint

BLACKOUT window panels. See Panels, Decorative

BLACKOUT window shades. See Window shades

BLACKOUTS in war

Air conditioning of blackout plants. W. A. Grant. il Heating-Piping 14:509-14; Discussion. W. L. Fleisher. 514 Ag '42

Air raid precautions for transit. J. A. Miller. il Transit J 86:5-8 Ja '42

Air raid warden learns the hard way; blackout problem, Peterborough hospital. A. H. Parker. Power Pl Eng 46:110-11 My '42

Army dim-out for Eastern seaboard. Elec W 117:1516 My 2 '42

Bed lamps for power plant blackout. diags Elec W 117:2238 Je 27 '42

Blackout. M. C. Mapes. Edison Elec Inst Bul 10:172-4 My '42

Blackout and air raid howjadoits. il Bus Transportation 21:186-7 Ap '42

Black-out cloths. il Textile World 92:56-7 Ja '42

Blackout consulting service. Am Bld 64:66-7 F '42

Blackout control by photocell relay. il diag Elec W 117:682+ F 21 '42

Blackout costume. il Chem & Eng N 20:200 F 10 '42; Same abr. Sci Am 166:123-4 Mr '42

Blackout draperies and curtains. H. E. Millson. Textile Col 64:281-3 Je '42

Blackout gadget; direct control from powerhouses. Business Week p58+ Mr 28 '42

Blackout guide; official specifications. diags Elec W 117:2217-20 Je 27 '42

Blackout in England. Sheet Metal Worker 33:30+ O '42

Blackout lighting chart. Elec W 117:1028 Mr 21 '42

Blackout lighting control. il Elec West 88:33-4 Mr '42

Blackout merchandise in wide range is advertised. Ptr Ink 198:21 F 27 '42

Blackout, no. 1 weapon of civilians in passive defense against bombers. il diags plan Arch Forum 76:6-13 Ja '42

Blackout of street lighting. G. A. Eddy. il diags Eng N 128:791-5 My 7 '42

Black-out panels of Douglas fir plywood. il Ry Age 112:549-50 Mr 14 '42

Black out plan for steel mills causes little loss in production. Steel 110:45 Je 15 '42

Blackout pointers. Am Bld 64:90-1 Mr '42

Black-out preparations in the United States. H. E. Millson. il News Ed 19:1266+ N 25 '41; Same. Paint Oil & Chem R 104:16-18 Ja 1 '42; Same. Textile Col 64:21-3 Ja '42

Blackout strategy. R. D. Voshall. il Bus Transportation 21:126-9 Mr '42

Blackout; summary of what to do. il diags plans Elec West 88:29-33 Ja '42

Blackout technique devised by Gulf Coast plants. N. Williams. Oil & Gas J 40:76+ F 26 '42

Blackout; the technique of light obscuration. R. L. Nelson. 31p Inst. of real estate management. Nat. assn. of real estate boards, 22 W. Monroe st. Chicago '42

Blackout ventilation for factories. diags Sheet Metal Worker 33:26 Ap '42

Blackouts. 60p bibliog(p58) U.S. Office of civilian defense, Washington; pa 25c Supt. of doc. '41

Blackouts and the electric industry. Edison Elec Inst Bul 10:1-4 Ja '42; Excerpts. Am Water Works Assn J 34:434-7 Mr '42

Blackouts, but no blot-outs of operations on the Southern Pacific. il Ry Age 112:1144-7 Je 13 '42

Blackouts cause little disruption in Vancouver; entire section of British Columbia included in blanket order. Elec W 117:1190 Ap 4 '42

Blackouts not warlike action. East Underw 43:41 Ja 30 '42

Blue light undesirable for blackouts. M. Luckiesh. Illum Eng 37:113-14 F '42; Excerpts. Nat Safety N 45:97 Ap '42

Boston blackout load dip like normal noon valley. Elec W News ed 117:738 F 29 '42

Brick kilns make good targets; plan to black them out. il Brick & Clay Rec 100:40+ Ja '42

British blackouts and the utilities. W. J. Jones. Pub Util 29:768-70 Je 4 '42

Chemistry helps solve Britain's black-out perplexities. For Comm W 5:44 N 15 '41

Classified sources of defense blackout devices; producers making equipment and materials. Elec W 117:74-7 Ja 10 '42

Comments on blackouts. S. G. Hibben and K. M. Reid. Illum Eng 37:210-16 Ap '42

Complete city blackouts considered unnecessary. S. G. Hibben. Elec W News ed 116:1965-6 D 20 '41

Consider evaporative cooling for blackout plants. W. L. Fleisher. Heating-Piping 14:28-9 Ja '42

Electric supply during dimout; contracts must be performed and paid for, British court holds. Weekly Underw 147:6+ Jl 4 '42

Electronic control of sign blackout. diag Elec W 117:1032 Mr 21 '42

Felt used for blackout. il Safety Eng 83:36 F '42

Highlighting the blackout on the West coast. il Bus Transportation 21:130-2 Mr '42

Home blackout procedure demonstrated by Buffalo Niagara electric corp. il Elec W 117:83-4 Ja 10 '42

Home-made blackout for generating plant. diag Elec W 118:172-3 Jl 11 '42

How to be happy though blacked out. Elec West 88:46-7 Ja '42

How to blackout the plant. il Factory Management 100:108-9 Ja '42

How to build a blackout panel. diags Am Bld 64:110 Ap '42

How to keep the blackout out; light-tight screening of windows. M. Fahsbender. il diags Elec W 117:2062-3 Je 13 '42

If a black-out came to America; surprisingly extensive shifts in habits would be forced on industry and consumers. F. Pick. map Barron's 21:3-4 My 26 '41; Excerpts. 21:8 D 15 '41

In industry and homes; proper ventilation in blackouts presents new problems. il Dom Eng 159:51+ My '42

Indoor, outdoor blackout fixtures. il diags Elec W 117:682 F 21 '42

Industrial plant blackout control; diagrams. Elec W 117:2244 Je 27 '42

Light and darkness in national defense. S. G. Hibben. Edison Elec Inst Bul 10:261-3+ Jl '42

Lighting engineers study sky-glow. il Elec W 118:930-1 S 19 '42

Lighting, ventilation and safety in factories during blackout. J. Adler-Herzmark. Ind Med 11:76-8 F '42

Lights on! air in! blackout! factory ventilation and cooling. L. Hungerford. il diags Dom Eng 159:50-1+ My '42

Lights out; blackout procedure; some of the general rules. S. G. Hibben. il Nat Safety N 45:17-18+ My '42

Load rise and fall rates in Coast blackout. F. R. George. maps Elec W News ed 117:160-1 Ja 17 '42; Electrician 128:215-16 Mr 13 '42

Loads and load curves as influenced by blackouts. A. Kramer. Power Pl Eng 46:54-7 N '42

Los Angeles street lights equipped for quick blackout. O. W. Holden. il Elec W 117:1898, 1900+ My 30 '42

Low-cost switch used for blackout. il Elec W 117:1044 Mr 21 '42

Luminescence as applied to black-out problems; abstract. H. E. Millson and C. C. Candee. Paper Ind 24:494 Ag '42

Meters for measuring blackout brightness. A. H. Taylor. il Elec W 118:810-12 S 5 '42

Modern ventilation makes blackout plants possible. F. O. Jordan. il Heating-Piping 14:621-2 O '42

More about blackouts; dissimilarities of British and American needs. A. Maxwell. Edison Elec Inst Bul 10:77-8 Mr '42

More blackout tips from the West coast; situation in Los Angeles. L. S. Flint. il Bus Transportation 21:132-3 Mr '42

New York state tells railroads how to blackout. Ry Age 112:1155 Je 13 '42

Old light in the new dark. M. A. Weil. il Mod Plastics 20:64+ O '42

Pacific coast organizes blackout procedures. il Elec W 116:2049-50 D 27 '41

BLACKOUTS in war—*Continued*

Philadelphia utility takes first blackout in stride. Elec W News ed 117:569 F 14 '42

Plants install ventilation for wartime blacking out. L. Hungerford. il Heating-Piping 14:117 F '42

Plants take blackout load changes comfortably. charts Elec W 118:610-12+ Ag 22 '42

Practical blackout lighting for factories. W. Harrison. Elec W 117:2054 Je 13 '42

Practice blackout in New York City's insurance sector. R. P. Mitchell. Nat Underw 46:21+ Ap 2 '42; Same. Nat Underw (Life ed) 46:5 Ap 3 '42

Protecting life, property, and production in the foundry industry during the war; code of recommended practices developed by the Industrial hygiene codes committee of the American foundrymen's association. diags Foundry 70:71+ Jl; 66-7+ Ag '42

Residence blackout methods and materials. E. W. Commery, H. G. McKinlay and M. E. Webber. il diags Illum Eng 37:491-518 S '42; Same. Edison Elec Inst Bul 10:371-81+ O '42

Safety in a blackout. S. G. Hibben. il Safety Eng 83:17 Ja '42

Salvage of lighting load from blackout; morale of public strengthened by Pacific gas & electric company instructions to customers. il Elec W 117:1351 Ap 18 '42

Self-blacking signs; dousing lights by use of tiny radio device tuned to carrier wave. Business Week p60 Ja 31 '42

Signals during black-outs. Ry Age 112:325-7 F 7 '42

Some aspects of highway maintenance in peace and war. C. R. Waters. il Civil Eng 12:498-9 S '42

Some blackout tips from the Southern California gas company. L. S. Flint. il Am Gas J 156:42-3 My '42

Specifications completed for blackout lighting; applicable to all vehicles. G. E. Doying, jr. Transit J 86:200-2 Je '42

Street lighting during blackouts. Illum Eng 37:339-40 Je '42

Test blackout driving hazards in Ohio town. Eng N 129:204 Ag 13 '42

Textiles that glow in the dark. il Textile World 92:71 O '42

Traffic signal blackout units of new type fill all needs. diags Eng N 129:632 N 5 '42

Trane company offers ventilator designed especially for blackout use. il Refrig Eng 43:322 My '42

Travelers cites case histories to show blackout room necessity. East Underw 43:34 My 15 '42

Utility operating problems during blackouts. F. M. Starr. Power Pl Eng 46:66-7 Ap '42

Utility problems of the blackout. R. F. Cornell. map Power Pl Eng 46:58-60 N '42

Visual aids to traffic movement under blackouts. W. S. Everett and K. M. Reid. diags map Illum Eng 36:1184-1203 bibliog(p1201-3); Discussion. 1203-4 D '41

WPB halves lamp types; blackout fixtures curbed. Elec W News ed 118:1018 S 26 '42

Wartime lighting. C. E. Ferree and G. Rand. diag Personnel J 21:107-17 S '42; Same. Illum Eng 37:587-95 N '42

What they did on the Seattle transit system. il Bus Transportation 21:177 Ap '42

When the blackout comes; repairs to utilities and the OCD scheme. H. Corey. Pub Util 30:18-24 Jl 2 '42

When the lights are low; New York City transit system plans for blackout. E. C. Giddings. il Transit J 86:206-8 Je '42

See also

Air raids—Protective measures

Lighting—War measures

Luminol

Accidents

British writer studies black-out liability. Spectator (Property ed) 7:9 Je 25 '42

Fatal accidents in the black out. Light & Lighting 34:127; 35:13-14 S '41, Ja '42

Liability of individuals and municipalities regarding blackout accidents; English experience. E. C. Stiefel. Weekly Underw 146: 1151+ My 23 '42

Liability under blackouts; symposium at American transit claims association meeting. Mass Transportation 38:304-5 O '42

Road accidents during two years of war. Light & Lighting 34:142 O '41

WDC says blackout exclusion does not apply during attack by enemy. East Underw 43: 16 S 11 '42

BLACKPLATE cans. See Cans

BLACKSMITHING

Modern blacksmithing and horseshoeing. J. G. Holmström. 157p $1 Drake '41

BLACKWELL, Oklahoma

Water supply

Installing and operating a settling basin baffle system. H. M. Frye. il diags Pub Works 72:16-18 D '41

BLADDER stones. See Calculi, Urinary

BLAISDELL, Thomas Charles jr. 1895-

Portrait. Business Week p7 F 28 '42

BLAKE, Samuel Henry

Portrait. Gen Elec R 45:front Ag '42

BLANCHING

Changes occurring during the blanching of vegetables. W. B. Adam, G. Horner and J. Stanworth. Soc Chem Ind J 61:96-9 Je '42

Testing

Simple tests reveal improper blanching. B. E. Proctor. il Food Ind 14:51-2 N '42

Simplified apparatus for catalase determination. R. R. Thompson. diag Ind & Eng Chem Anal ed 14:585 Jl 15 '42

BLANDFORD, John Bennett, jr. 1897-

Housing gets a one-man top. por Arch Forum 76:141 Mr '42

Portrait. Business Week p32 Mr 7 '42

BLANKETS

Improved instrument for measuring the air permeability of fabrics. H. F. Schiefer and P. M. Boyland. pls diag J Research Nat Bur Stand 28:637-42 My '42

Service study of three blanket fabrics made from various blends of wool and mohair. R. E. Rogers, M. B. Hays and J. I. Hardy. bibliog diags Am Dyestuff Rep 31:318-24 Je 22 '42

Manufacture

Army blankets on carpet looms. J. N. Dow. il Textile World 92:70-2 Je '42

Chatham concentrates operations; finishing plant at Elkin, N.C. il Textile World 91:80-1 D '41

Dermatitis occurring in a woolen mill. L. Schwartz and J. E. Dunn. Ind Med 11:432-5 S '42

BLAST furnace gas

Audit of the carbon, oxygen and hydrogen in an iron blast furnace. J. S. Fulton. Blast F & Steel Pl 30:83-8, 233-7, 339-44 Ja-Mr '42

Heating of coke ovens. U. L. Koski. Blast F & Steel Pl 30:775-7 Jl '42

New principles in heating Koppers-Becker coke ovens. W. C. Rueckel. diags Blast F & Steel Pl 30:331-8, 431-6 Mr-Ap '42

Cleaning

Dust problems in burning blast furnace gas under steam boilers. A. R. Mumford. Blast F & Steel Pl 30:782+ Jl '42

Electrostatic precipitation; wide applications in the chemical industry. D. D. Howat. bibliog il diag Chem Age (Lond) 46:165-8 Mr 28 '42

BLAST furnace slag. See Slag

BLAST furnaces

American rolling mill company dedicates blast furnace. il Blast F & Steel Pl 30: 1030 S '42

Blast furnace for production of silvery iron has novel features. B. H. Booth. il Blast F & Steel Pl 30:662-3 Je '42

BLAST furnaces—*Continued*

Blast furnace; need for increased production. A. G. McKee. il Metals & Alloys 15:40-1 Ja '42
Blast furnaces break records. A. G. McKee. Metal Prog 42:591 O '42
Concentration of blast furnace flue dusts. S. M. Shelton and F. D. Lamb. flow sheet il Iron Age 149:54-9 Je 11 '42
Data on conditions of temperature and composition of gases in blast furnaces; British and American; tabulation. G. R. Rigby and A. T. Green. Blast F & Steel Pl 30:809 Jl '42
Economics and methods of dry blast production; abstract. D. Wolochow. Can Chem & Process Ind 26:338 Je '42
First of the country's new blast furnaces blown in. Min & Met 23:426 Ag '42
Inside the blast furnace. F. Hartmann. Metals & Alloys 15:842+ My '42
Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42
Iron output 7% over rated capacity seen a possibility in '42. T. C. Campbell and B. W. Corrado. il Iron Age 149:76-8 Ja 22 '42
Methods of increasing production of existing steel plant equipment; blast furnaces; abstract. L. E. Riddle. Metals & Alloys 15: 642+ Ap '42
New technique in blast furnace construction. il Blast F & Steel Pl 30:995-6 S '42
Old furnace dismantled, new stack erected within 90 days; Youngstown sheet & tube co. il Steel 111:26 Ag 24 '42
Open-hearth and blast furnace and raw materials committees of A.I.M.E. joint conference, Cincinnati, April 16-17. Metals & Alloys 15:791-3 My '42
Open-hearth steel committee and blast furnace and raw materials committee of the American institute of mining and metallurgical engineers 25th conference program. Blast F & Steel Pl 30:sup20+ Ap '42
Plan to improve blast furnace coke; selection of coking coals. W. T. Brown. diag maps Blast F & Steel Pl 30:1137-45, 1255-63 O-N '42
Pours foundation through 400-foot pipe line; foundations for a blast furnace. il Steel 111:159 S 14 '42
Producing pig iron for the trade; E. & G. Brooke iron company. W. H. O'Connell. il Comp Air M 47:6815-18 Ag '42
Republic blows-in first furnace authorized on emergency program. il Blast F & Steel Pl 30:641-2 Je '42
Southern blast furnace will serve steel furnaces and foundries. Blast F & Steel Pl 30:1148-9 O '42
Use of sinter to increase blast furnace output. il Steel 110:107-8 My 11 '42
When charcoal iron industry held sway. il Steel 111:80, 83+ Ag 3; 78, 80+ Ag 10 '42
Work expedited by pumping concrete; foundations for blast furnace, Bethlehem steel company. il Blast F & Steel Pl 30:907 Ag '42

See also

Blast furnace gas	Iron metallurgy
Blowers	Slag

Air supply

Air-conditioned blast furnaces win favor with 19 units in operation. G. F. Sullivan. il Iron Age 150:102+ Jl 30 '42
Air conditioning benefits blast furnace operation. E. K. Miller. il Steel 109:88, 91+ N 10 '41; Same. Blast F & Steel Pl 29:[1103-7] N '41
Air conditioning improves furnace performance. F. C. Wood. il Steel 110:86, 89-90 F 9 '42
Air conditioning to increase production of silvery pig iron. J. I. Lyle. Heating-Piping 14:232-3 Ap '42
Blast furnace air-conditioning will increase production; abstract. R. VD. Dunne. Blast F & Steel Pl 30:226 F '42
Blast furnace air heating; adaptation of tubular heaters. G. Auer. il diag Iron Age 149:44-8 Ap 16; 43-8 Ap 23; 50-5, 109 bibliog(53 titles, p54-5, 109) Ap 30 '42
Dry blast and production for war; air conditioning for blast furnaces. R. VD. Dunne. diag Refrig Eng 44:19-22, 58; Discussion. 58, 60 Jl '42
Dry blast for blast furnaces. D. Wolochow. Metal Prog 42:546+ O '42
Effect of moisture in blast air. R. J. Cowan. il diag Iron Age 150:43-50 N 12 '42
Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42
Jones & Laughlin steel corporation installs air conditioning at its no. 1 blast furnace. E. K. Miller. il Heat & Ven 39:48-51 Ja '42
Rapid metallurgy in war production; vs. new equipment. G. S. Evans. il Iron Age 149: 31-5 Ap 23 '42
Recent developments in the iron ore industry and blast furnace practice; conditioned air for blast furnace. T. L. Joseph. diag Blast F & Steel Pl 30:46-7 Ja '42
Temperature and humidity change blower power; chart. Power Pl Eng 46:108 Ag '42

Charging

Blast furnace skip hoist operation with amplidyne exciter control. C. P. Hamilton. il diags Blast F & Steel Pl 30:1023-5 S '42
Handling materials; blast furnace charging plant. il Elec R (Lond) 130:493-4 Ap 17 '42
Methods of improving stock distribution. C. M. Squarcy. diags Blast F & Steel Pl 30: 1131-6 O '42

Cooling

Cleaning of blast furnace cooling coils increases furnace life. K. I. Robinson. il Blast F & Steel Pl 29:1207-9 D '41

Lining

Blast furnace refractories. G. R. Rigby and A. T. Green. bibliog il diags Blast F & Steel Pl 30:808-10, 928-30, 1064+, 1176+ Jl-O '42
Blast furnace relined in 31 days. Blast F & Steel Pl 30:363 Mr '42
Influence of working conditions on the durability of blast-furnace linings; abstract. G. R. Rigby and A. T. Green. Engineering 154:5 Jl 3 '42
Modern blast furnace refractories. R. E. Birch. bibliog il diags Blast F & Steel Pl 30:345-50, 437-40+ Mr-Ap '42
Refractories service conditions in the blast furnace. H. M. Kraner. il diags Am Cer Soc J 25:311-20 bibliog(75 titles, p318-20) Jl 1 '42; Same. Steel 111:66+ Ag 31; 82+ S 7 '42
Use of Missouri refractories in blast furnace service. C. A. Freeman. il Blast F & Steel Pl 29:[1119-22] N '41

Tapping

Blast furnace tapping holes. L. Tofft. diags Blast F & Steel Pl 30:892-4+, 1010-15 Ag-S '42
Taps salamander from blast furnace. il Steel 111:67 S 7 '42

BLASTING

Compaction of cohesionless foundation soils by explosives. A. K. B. Lyman. il diags plan map Am Soc C E Proc 67:769-80 My '41; Same cond. Engineer 172:45-6 Jl 18 '41; Discussion. Am Soc C E Proc 67:1511-12; 68:164-6, 285-6 O '41, Ja-F '42
Defense against claims for damage from blasting; abstract. H. Williams. Rock Prod 45:58 Mr '42
Design of air-blast meter and calibrating equipment. A. T. Ireland. bibliog il diags U S Bur Mines Tech Pa 635:1-20; pa 10c Supt. of doc. '42
Development of deep wells by dynamiting. R. E. Milaeger. Am Water Works Assn J 34:684-9; Discussion. 689-90 My '42
Ditching with dynamite. il diags Explosives Eng 20:255-61 S '42
Drilling on a 45-degree slope; New Enterprise stone and lime co. B. Nordberg. il Rock Prod 45:37-9 Jl '42

BLASTING—*Continued*

Effects of carbonaceous blasting accessories on gaseous products from explosives. J. C. Holtz and E. J. Murphy. pls U S Bur Mines Rep of Invest 3641:1-24 '42
Eliminate toes at quarry face; Dolcito quarry co. B. Nordberg. il diag Rock Prod 45:42-4+ Je '42
Explosives erect a pole line. J. L. Mattox. il Explosives Eng 20:138-41 My '42
Fiber plug curbs blast noise. F. R. Cozzens. diag Eng N 128:933-4 Je 4 '42
Giants work; hydraulic mining in California; use of blasting. F. L. Elam. il Explosives Eng 20:15-18 Ja '42
Methods of stump blasting. il diags Explosives Eng 20:299-303 O '42
Seismic effects of quarry blasting. J. R. Thoenen and S. L. Windes. pls diags U S Bur Mines Bul 442:1-83 bibliog(p81-3); pa 15c Supt. of doc. '42; Excerpts. Concrete (mill sec) 50:200-1, 223-6 Jl-Ag '42
Seismic shooting near power lines; the use of Primacord detonating fuse reduces hazards. R. L. Klotz, jr. il diags Explosives Eng 20:108-12 Ap '42
Stemming in metal mines; progress report; firing through stemming. W. G. Agnew, J. A. Johnson and M. Mosier. U S Bur Mines Rep of Invest 3646:1-4 '42
Stemming in metal mines; relative advantages and disadvantages of different types of stemming and no stemming when used with 60-percent ammonia gelatin dynamite. J. A. Johnson, W. G. Agnew and M. Mosier. U S Bur Mines Rep of Invest 3612:1-16 '42
Use of dynamite saves time and money in refinery construction; removing concrete foundations. R. G. Lovell. il Pet Eng 13:125 D '41

See also
Cartridges, Dynamite
Coal mines and mining—Explosives
Explosives

Safety measures

Dangerous loading practices. C. W. Abrahamson. Can Min J 63:313-14 My '42
Foolproof blasting switch. P. C. Ziemke. diag Eng N 127:896 D 18 '41
Instructions and rules for users of high explosives and permissible explosives. diags Explosives Eng 20:266-8 S '42
Permissible blasting units. L. C. Ilsley and A. B. Hooker. pls U S Bur Mines Rep of Invest 3593:1-14 '41
Prevention of premature shots during springing of deep drill holes in quarries and open-pit workings. D. Harrington and C. W. Owings. U S Bur Mines Information Circ 7191:1-8 '41; Excerpts. Concrete (mill sec) 50:152+ Ap '42
Safe opening and determination of construction of detonators. R. L. Grant and A. B. Coates. bibliog il diag U S Bur Mines Rep of Invest 3594:1-16 '41
Safety sermonettes; explosives and blasting. W. B. Paton. Can Min J 63:586-8 S '42
Storage and handling of explosives underground. E. D. McNeil, jr. il Explosives Eng 19:355-7 D '41
What can be done to make explosions cause fewer and less severe accidents. Coal Age 47:69 Ag '42

BLAW-KNOX company
Favored stocks priced from $1 to $10. Mag of Wall St Manual p7 Ap '42

BLEACHERS' association, limited
Ordinary general meeting, 43d, Manchester. Economist 143:59 Jl 11 '42

BLEACHING
Control of pH in bleaching. B. P. Ridge and A. H. Little. Am Dyestuff Rep 31:515-16+ O 26 '42
Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

See also
Decolorization
Dyes and dyeing
Paper making—Bleaching
Stains—Removal

Cotton

Bleaching cotton knit goods. E. S. Dunlap. il Textile World 92:94-5 Ap '42
Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42
Peroxide versus chlorine bleaching; discussion. Am Dyestuff Rep 31:61-2 F 2 '42
Some applications of textone in the textile industry. E. G. Fenrich and G. P. Vincent. Am Dyestuff Rep 31:263-5 My 25 '42

Jute

Practical conditions for the buffering of hypochlorite solutions at different pH values. B. P. Ridge and A. H. Little. Textile Inst J 33:T59-74 My '42

Linen

Practical conditions for the buffering of hypochlorite solutions at different pH values. B. P. Ridge and A. H. Little. Textile Inst J 33:T59-74 My '42

Paper

See Paper making—Bleaching

Rayon

Some applications of textone in the textile industry. E. G. Fenrich and G. P. Vincent. Am Dyestuff Rep 31:263-5 My 25 '42

Silk

Peroxide production for bleaching silk. C. C. Downie. Textile Col 63:608 N '41

BLEACHING materials
Chemistry of chlorites. J. F. White, M. C. Taylor and G. P. Vincent. bibliog(57 references) il Ind & Eng Chem 34:782-92 Jl '42
Conserving laundry bleach. J. F. Oesterling. Soap & San Chem 18:59 F '42
Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42
Mill-made chlorine bleach; electrolytic equipment. il Textile World 92:70 O '42
Preparation of bleaching solutions. R. P. Whitney. Paper Tr J 113:35-6 N 20 '41
Replacing present bleaching agents; abstract. J. W. Richardson. Am Dyestuff Rep 31:178-9 Ap 13 '42
Use of chlorites for treating raw sugars. H. S. Isbell. J Research Nat Bur Stand 27:491-7 D '41

See also
Chlorine
Fuller's earth
Hydrogen peroxide
Hypochlorites
Sodium chlorite
Sodium hypochlorite
Textone

Analysis

Determination of available chlorine in solutions containing textone. J. F. White. Am Dyestuff Rep 31:484-7 S 28 '42

BLEACHING powder
Bleaching powder completely allocated. Oil Paint & Drug Rep 142:5+ Jl 13 '42

Analysis

Some applications of X-ray diffraction methods to industrial chemistry; abstract. C. W. Bunn. Chem Age (Lond) 46:221 Ap 25 '42

BLIGHTED area. See Slums

BLIMPS. See Airships

BLIND
Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1235-75 Ag 21 '42

See also Seeing eye, incorporated, Morristown, New Jersey

BLINDNESS
Blindness, as recorded in the National health survey; amount, causes, and relation to certain social factors. R. H. Britten. Pub Health Rep 56:2191-215 N 14 '41
World at my finger tips. K. Ohnstad. 348p $3 Bobbs '42

BLINDS
Plastics competition award to Chas. W. Breneman co.; Brenlin Rolblind, Ethocel. il Mod Plastics 19:84-5 N '41
Specification standards for government work. H. R. Sleeper. Arch Rec 91:92 Ap '42
Temperature control cuts air cooling load; KoolShade sun screens prove highly effective. diag Rayon 23:358-9 Je '42

Cleaning

Venetian blind laundry conditioned. Heat & Ven 38:40 D '41

BLINKING. See Winking

BLIVEN, Sophia
Heads Pan-American agency. por East Underw 43:5 Je 5 '42

BLOCK, Philip Dee, 1871-
Block career a story of enterprise. Iron Age 150:98+ Jl 9 '42

BLOCK booking. See Moving picture industry—Regulation

BLOCK printing
Observations on hand block printing. Textile Col 63:673-4 D '41

See also
Linoleum block printing

BLOCKADE

See also
World war, 1939—
Blockade

BLOOD
Apparatus to deliver a measured amount of CO_2 for blood cultures. M. Levine and H. Siedentopf. diag Science 95:130-1 Ja 30 '42
Binding of sulfonamides by plasma proteins. B. D. Davis. Science 95:78 Ja 16 '42
Clinical hematology. M. M. Wintrobe. 792p bibliog(p759-62) $10 Lea & Febiger, Philadelphia '42
Crystalline catalase from beef erythrocytes. M. Laskowski and J. B. Sumner. Science 94:615 D 26 '41
Determination of blood volume with red blood cells containing radioactive phosphorus (P^{32}). F. A. Brown, jr., L. H. Hempelmann, jr. and R. Elman. Science 96:323-4 O 2 '42
Flask for separation of serum from blood. F. E. Holmes and B. Johnson. diags Ind & Eng Chem Anal ed 14:62 Ja 15 '42
Heparin and the antithrombic activity of plasma. W. H. Seegers and others. Science 96:300-1 S 25 '42
Renal hyperlipemia in dogs. W. Heymann. Science 96:163-4 Ag 14 '42

Rheology of the blood; the effect of fibrinogen on the fluidity of blood plasma. E. C. Bingham and R. R. Roepke. bibliog Am Chem Soc J 64:1204-6 My '42

Studies on bactericidal and phagocytic activity of normal human blood on meningococci in relation to the skin test with meningococcus toxins. S. E. Branham, A. P. Hitchens and M. B. Root. bibliog Pub Health Rep 57:1021-31 Jl 10 '42

See also
Hemoglobin
Leucocytes
Serum

Analysis

Analysis of divinyl ether in blood. W. L. Ruigh. bibliog il Ind & Eng Chem Anal ed 14:32-4 Ja 15 '42

Determination of ethyl alcohol by microdiffusion. T. Winnick. bibliog Ind & Eng Chem Anal ed 14:523-5 Je 15 '42

Electrolytic separation of radioactive iron from the blood. J. F. Ross and M. A. Chapin. diag R Sci Instr 13:77-80 F '42

Microgasometric determination of nitrogen in blood and saliva. P. F. Scholander. diags R Sci Instr 13:362-4 Ag '42

Polarographic curve of serum from rats fed p-dimethylaminoazo-benzene. H. P. Rusch and D. L. Miner. bibliog Science 94:468 N 14 '41
Polarographic determination of nitrates in blood and urine. E. W. Scott and K. Bambach. Ind & Eng Chem Anal ed 14:136-7 F 15 '42
Recent advances in the study of proteins by electrophoresis. L. G. Longsworth. bibliog diags Chem R 30:323-40 Je '42
Simple micro-gasometric method of estimating carbon monoxide in blood. P. F. Scholander and F. J. W. Roughton. diags J Ind Hygiene 24:218-21 O '42
Solubility of carbon disulfide vapor in body fluids and tissues. R. W. McKee. il J Ind Hygiene 23:484-9 D '41
Sulfhemoglobin formation and labile iron in vitro and in vivo. G. Barkan and B. S. Walker. bibliog Science 96:66-8 Jl 17 '42
Ultracentrifugation of rat plasma phosphatase. E. O. Kraemer and others. Franklin Inst J 232:587-91 D '41

Circulation

Venopressor mechanism. Y. Henderson. bibliog Science 95:539-43 My 29 '42

Coagulation

Blood plasma offers new hope to patients with hemophilia; abstract. J. B. Johnson. Science 95:sup11 Mr 13 '42
Chemical dicoumarin reduces clotting ability of blood. Science 95:sup12-13 My 8 '42
New hope for those who bleed excessively; clotting globulin. Sci Am 167:120 S '42
Phenomenon of thixotropy in hemophilic and heparinized blood. A. L. Copley. bibliog Science 94:543-4 D 5 '41
Significance of fibrinolysis in the mechanism of coagulation of blood. H. J. Tagnon. Science 95:334 Mr 27 '42

Diseases

Diseases of the blood and atlas of hematology. R. R. Kracke. 2d ed rev & enl 692p $15 Lippincott '41

Oxygen content

Oximeter, an instrument for measuring continuously the oxygen saturation of arterial blood in man. G. A. Millikan. il diags R Sci Instr 13:434-44 O '42
Tales told by ears; oxygen saturation of an aviator's blood, which determines his efficiency, is quickly measured. A. Klemin. il Sci Am 167:86 Ag '42

Testing

Transfusions; blood types now quickly determined. Sci Am 166:120 Mr '42
Use of dried plasma for the coagulase test. E. J. Foley. Science 95:416 Ap 17 '42

Transfusion

All-America package competition; award to Sharp & Dohme, inc.; Lyovac normal human plasma. il Mod Packaging 15:158-9+ Ap '42
Answer to war's greatest killers; injecting plasma. Fortune 26:30+ O '42
Apparatus for continuous filtration in blood and plasma transfusions. H. Siedentopf and M. Levine. diag Science 96:303 S 25 '42
Blood bank and the technique and therapeutics of transfusions. R. A. Kilduffe and M. DeBakey. 558p $7.50 C. V. Mosby co, St Louis '42
Blood by express; Church containers carry plasma for armed forces. Business Week p30 D 27 '41
Buckets of blood; your blood donation. H. C. Forst. il Sci Am 167:118-20 S '42
Management of a blood bank in a moderate-sized, or industrial, hospital. G. Schaefer. bibliog il Ind Med 11:211-14 My '42
New type plasma filter will aid in prevention of fatal wound shock. Franklin Inst J 234:100-1 Jl '42
Refrigerated containers meet a vital war need; transportation of blood plasma. il Ry Age 113:275-6 Ag 15 '42

BLOOD—Transfusion—*Continued*

Report of the Blood transfusion association, concerning the project for supplying blood plasma to England, which has been carried on jointly with the American Red cross from August, 1940, to January, 1941. 121p bibliog (p118-21) Blood transfusion assn, 39 E 78th st, New York '41

Role of low temperature in the preservation of plasma. M. M. Strumia. diags Refrig Eng 44:154-6+ S '42

Segregation of bloods; committee of American association of physical anthropologists opposed to segregation of bloods from white and Negro donors. Science 96:8 Jl 3 '42

Skin sensitivity to human plasma. M. Levine and D. State. Science 96:68-9 Jl 17 '42

Technical manual on citrated human blood plasma; detailing its procurement, processing, and use. 41p U.S. Office of civilian defense, Washington '42

Technical manual on the preservation and transfusion of whole human blood. 31p bibliog(p28-31) U.S. Office of civilian defense, Washington '42

BLOOD, Dried

Exports of dried blood from Argentina. For Comm W 6:18 Ja 3 '42

Role of low temperature in the preservation of plasma. M. M. Strumia. diags Refrig Eng 44:154-6+ S '42

BLOOD groups

Blood grouping technic. F. Schiff and W. C. Boyd. 248p $5 Interscience publishers, New York '42

Rh factor and racial origins. A. S. Wiener. bibliog Science 96:407-8 O 30 '42

BLOOD pressure

Automatic blood pressure recorder. W. E. Gilson. il diags Electronics 15:54-6 My '42

Blood pressure in the umbilical vein of the foetal sheep. J. Barcroft, D. H. Barron and P. Forsham. Science 96:179-80 Ag 21 '42

Chemistry of high blood pressure. D. L. Thomson. Can Chem & Process Ind 26: 312+ My '42

Effect of a preparation of amine oxidase on experimental hypertension. H. A. Schroeder. bibliog Science 95:306-7 Mr 20 '42

Electrical capacitance diaphragm manometer. J. C. Lilly. bibliog il diags R Sci Instr 13: 34-7 Ja '42

Help your doctor to help you when you have high blood pressure. W. C. Alvarez and others. 25p 95c Harper '42

Hypertension in workers over forty years of age. A. M. Master and S. Dack. bibliog Ind Med 11:145-7 Ap '42

Hypertensive vascular disease in industry. A. Freeman. Ind Med 11:321-3 Jl '42

Pepsitensin, a hypertensinlike substance produced by peptic digestion of proteins. H. Croxatto and R. Croxatto. bibliog Science 95:101-2 Ja 23 '42

Preparation and properties of renin. O. Schales. bibliog Am Chem Soc J 64:561-4 Mr '42

Production of a pressor substance from serum globulin by action of pepsin. C. J. Weber, R. H. Major and D. Lobb. Science 96:44-5 Jl 10 '42

Relation between structure and histamine-like activity. C. Niemann and J. T. Hays. bibliog Am Chem Soc J 64:2288-9 O '42

α-Thienylaminoalkanes. F. F. Blicke and J. H. Burckhalter. bibliog Am Chem Soc J 64:477-80 Mr '42

Treatment of experimental renal hypertension with vitamin A. G. E. Wakerlin, W. G. Moss and E. L. Smith. bibliog Science 96:161-3 Ag 14 '42

Vitamin deficiency and high blood pressure; abstract. R. M. Calder. Science 96:sup6-7 Jl 31 '42

BLOOD serum. See Serum

BLOOD vessels

Occurrence of hyaline sclerosis and calcification of blood vessels in rats on sulfaguanidine. F. S. Daft and others. Pub Health Rep 57:217-18 F 13 '42

Optically active vasopressor amines. W. R. Brode and M. S. Raasch. bibliog Am Chem Soc J 64:1449-50 Je '42

BLOODWOOD tree

Red dye from baloghia lucida. C. D. Mell. Textile Col 64:87-8 F '42

BLOSSOM, George W. 1854-1941

Sketch. C. M. Cartwright. por Nat Underw 46:5+ Ja 8 '42

BLOTTERS

Business building blotters. il Inland Ptr 107:47 S; 108:50 O; 58 N; 44 D '41; 60 Ja; 57 F; 62 Mr; 109:41 Ap; 51 My; 35 Je; 51 Jl '42

BLOWERS

Control of cupola air improves filter press castings. W. H. O'Connell. il diags Comp Air M 47:6641-3 Ja '42

Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42

L-R manufacturing co. blower. il Gen Elec R 45:596 O '42

Positive displacement supercharger. J. L. Ryde. il diag Diesel Power 20:899-905 N '42; Abstract. Automotive & Aviation Ind 87: 78+ S 1 '42

Temperature and humidity change blower power; chart. Power Pl Eng 46:108 Ag '42

Ventilating system for Continental Divide tunnel. il Engineering 152:510 D 26 '41

See also

Blast furnaces
Exhaust systems
Fans, Mechanical
Mine ventilation
Ventilation
Ventilators

BLUE

Blue light undesirable for blackouts. M. Luckiesh. Illum Eng 37:113-14 F '42

Dyeing with sulphur dyes with special reference to khaki, blue and grey shades. H. Boothroyd. Soc Dyers & Col J 58:25-7 F '42; Same. Textile Col 64:296-9 Je '42; Discussion. Soc Dyers & Col J 58:27-8 F '42

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

See also

Anthraquinone blue
Bromophenol blue
Indigo
Methylene blue
Molybdenum blue
Phenol blue
Prussian blue

BLUEBERRIES

Blueberry storage. F. B. Chandler. Science 95:603-4 Je 12 '42

BLUEPRINTING

Infra-red drying lamp speeds Van Dyke prints. Product Eng 13:475 Ag '42

BLUEPRINTS

Aircraft blueprints and how to read them. C. Norcross. 102p $1.75 McGraw-Hill '42

Aircraft sheet metalwork; pt. II, Workbook in blueprint form. J. W. Giachino. 59p pa 96c Manual arts press '42

Blueprint reading; a visualized method of instruction. A. A. Dick. 157p $2.40 Ronald press '42

Blue print reading and sketching. H. R. Thayer. 2d ed 135p $2.25 McGraw-Hill '42

Blueprint reading at work. W. W. Rogers and P. L. Welton. 136p pa $1.28 Silver Burdett co, 45 E. 17th st, New York '42

Engineering data sheets on vellum are useful in making blueprints; G & W electric specialty company. il Ind Marketing 27:38 Jl '42

Expediting blueprint delivery in a large aircraft plant. il Mach 49:158-9 S '42

How to read blueprints; manual and key. A. A. Owens and B. F. Slingluff, eds. 64p pa $1 John C. Winston co, Philadelphia '42

How to read electrical blueprints. G. M. Heine and C. H. Dunlap. 318p $3 Am. technical soc, Drexel av at 58th st, Chicago '42

Notes and problems in blue print reading of machine drawings. D. E. Hobart. 105p pa $1 Harper '41

Photo-tracings, their use in making pictorial blueprints. L. C. Jones. il diag Product Eng 13:23-5 Ja '42

BLUEPRINTS—*Continued*

Primer of blueprint reading. T. A. Diamond. rev ed 70p 60c Bruce pub. '41

Primer of ship blueprint reading; glossary of shipyard terms. C. Clark. 121p pa $1.50 Cornell maritime press, 350 W. 23d st, New York '42

Simple blueprint reading, with particular reference to welding and welding symbols. 2d ed 146p Lincoln electric co, Cleveland '41

Simple guide to blueprint reading. W. N. Wright. 137p, 199p pa $3 Craftsman press, 3145 Western av, Seattle, Wash. '41

BLUING

Advertising

Weekly house magazine has only two pages—; Daily news about the blues. Ptr Ink 197:47-9 D 26 '41

BOARDING houses

Electrical installations in United Kingdom's hostels. For Comm W 8:25-6 Ag 1 '42

BOAT building

Boatbuilding; a complete handbook of wooden boat construction. H. I. Chapelle. 624p $5 Norton '41

Build a boat for pleasure or profit; it's easy to build your own boat. 192p $1.25 Wilcox & Follett co, 1255 Wabash av, Chicago '41

Little boats; resin-bonded plywood decreases weight, increases speed of patrol torpedo and landing boats. il Mod Plastics 19:35-7+ Mr '42

Sea-boats, oars and sails. C. O'Brien. 206p $3.50 Oxford (Toronto) '41

See also

Lifeboats—Manufacture

BOATS and boating

Boats for the army. il Mod Plastics 19:45+ Ag '42

See also

Barges
Boat building
Dredges
Fishing boats
Flying boats
Freight ships
Motor boats
Shipbuilding
Ships
Steamboats
Torpedo boats
Towboats
Yachts and yachting

BOBBINS

Plastics competition award to Columbian rope co.; abrasive disks and bobbin heads. il Mod Plastics 19:114-15 N '41

Spinning room practice; faultily-built bobbins, what causes them and how to prevent them. W. Stockton. Textile World 92:112 My '42

Winding bobbins for nylon fabrics. il Rayon 23:339-40 Je '42

BOERHAAVE, Herman, 1668-1738

Samuel Johnson's Life of Boerhaave. E. R. Atkinson. por J Chem Educ 19:103-8 Mr '42

BOGERT, Marston Taylor, 1868-

In honor of Dr Marston Taylor Bogert; citation by Society of chemical industry. Science 96:154 Ag 14 '42

BOGS. See Marshes

BOGUS paper

Newton paper co. gets desist order; Federal trade commission suit against bogus paper makers. Paper Tr J 113:23 D 25 '41

BOHEMIAN flats. See Minneapolis—Bohemian flats

BOHN aluminum and brass corporation

Bohn Aluminum in war and peace. H. Lawrence. Barron's 22:20 Mr 2 '42

Outstanding stocks for income and profit. il Mag of Wall St 70:441 Ag 8 '42

BOILER cleaning

Heterodox tube cleaning. Power Pl Eng 46:93-4 O '42

How one plant cleans boilers. D. Gutleben. il diag Power 86:191-2 Mr '42

Pulsometer cleans underground breechings. S. H. Coleman. diag Power Pl Eng 46:92 O '42

Two methods used to acid-clean boilers. Elec W 118:317-18 Jl 25 '42

BOILER explosions

Accidents to two water tube boilers cause injuries and death. Locomotive 44:109-10 O '42

Boiler of track locomotive explodes while train is in tunnel. il Locomotive 44:79 Jl '42

Careless operation causes furnace explosion. il Locomotive 44:108-9 O '42

Cause and prevention of explosion hazards; unburned fuel-air mixtures in boilers, ovens and driers. T. A. Cohen. il diags Food Ind 14:58-9+ Je '42

Combustion safeguards for boiler furnaces. T. A. Cohen. il diags Power Pl Eng 46:62-4 Ap '42

Low water, overheating, explosion. il Locomotive 44:2-4 Ja '42

Mercantile building heavily damaged by heating boiler explosion. il Locomotive 44:81-2 Jl '42

Residence wrecked by explosion. il Locomotive 44:50 Ap '42

Safe combustion; devices which prevent boiler explosions. T. A. Cohen. il diags Dom Eng 159:62-3+ Mr '42

Track locomotive boiler explosions take heavy toll. Locomotive 44:107-8 O '42

Two furnace explosions cause severe damage. il Locomotive 44:34-6+ Ap '42

BOILER furnaces. See Furnaces, Boiler

BOILER inspection

Boiler inspection on fee basis at army-owned plants. Nat Underw 46:16 Ap 23 '42

How to buy a secondhand boiler; methods of inspection and test. H. Spring. il Power 86:506-7 Jl '42

Radium, modern tool for boiler inspection. H. Spring. il diags Power 86:560-1 Ag '42

BOILER plants

See also

Boilers
Chimneys
Feed water
Steam plants

Efficiency

How much power does a feed water heater save? W. F. Schaphorst. chart Am Gas J 157:24 S '42

Results with spreader stokers. R. N. Bucks. il Power Pl Eng 46:106-7 My '42

Electric equipment

Draft-fan power supply circuits simplified. J. S. Brown. diags Elec W 117:1666-7 My 16 '42

Equipment

Better draft layouts improve operation. J. Cassie. diags Elec W 118:759 S 5 '42

Boiler control; a modern centralised installation. il Elec R (Lond) 130:295-300 Mr 6 '42

Boiler-room changes double output of existing units; Marathon paper mills. G. H. Urban. il Power 86:711-13 O '42

Booster triples capacity of 36 year old boiler. diag Heating-Piping 14:429 Jl '42

Centralized controls feature boiler room; Waterside no. 2 generating station, New York. il diag Elec W 117:1509 My 2 '42

Combustion corrections gain large capacity; elimination of erosion and clogging through addition of tubes and changes in economizer. il diag Elec W 118:925 S 19 '42

Heating Fort Greene houses. M. Freund. il diags plans Heat & Ven 39:17-24 F '42

Hopkinsons steam-desuperheating apparatus. il diag Engineering 153:226-7 Mr 20 '42

Installing boiler blow-down receiver and piping. J. C. Albright. il Pet Eng 13:73 Ag '42

Mechanical draught; fundamental considerations regarding fans. V. Smith. Elec R (Lond) 130:433-4 Ap 3 '42

New boilers at Algoma steel corporation, ltd., plant. W. E. S. Dyer. diag Blast F & Steel Pl 30:146, 148-9 Ja '42

New fans, more steam, no cinder; relocation of breechings to accommodate new fans and cyclones. J. E. Watson. il diag Power 86:262 Ap '42

New steam plant at Riverbend; Price brothers & company. J. Foster and V. Foyle. il Pulp & Pa of Can 43:503-8 Je '42

BOILER plants—Equipment—*Continued*

Power and automatic operation of soot blowers. R. J. Glinn. Engineering 154:76, 87-8, 105 Jl 24-Ag 7 '42

Progress in combustion control. J. F. Springer. il Rayon 22:556-9, 627-8, 689-90, 743-5; 23:48-50, 175-6, 431+ S '41-Ja, Mr, Jl '42

Reducing and desuperheating equipment. il diags Engineer 173:188 F 27 '42

Review of power and mechanical equipment. il diags Power 85:940-70, 983-4 Mid-D '41

Salt-water evaporator system reduces boiler operation cost. W. A. Shellshear. il diag Oil & Gas J 41:118-19 Je 25 '42

Test shows small-unit efficiency; Wyndmoor, Pa. laboratory of U.S. Dept. of agriculture. T. A. Marsh. il diag Power 85:923-4+ D '41

Timken steams ahead. il Power 86:386-8 Je '42

Utilisation of spare and standby boilers. il diags Engineer 173:534-5 Je 26 '42

War takes electric power, paper mill burns coal; new boilers at Price brothers and company. J. W. Gathercole. il diag Pulp & Pa of Can 43:509-16 Je '42

See also

Boilers
Coal handling
Furnaces, Boiler
Stokers, Mechanical

Maintenance and repair

Boiler care under war time production schedules. il Locomotive 44:37-43 Ap '42

Boiler maintenance largely a matter of elementary dont's. il Oil & Gas J 40:182-4 Ap 30 '42

Forced outages discouraged by hunting for trouble. T. H. Walker. Elec W 118:1428-30 O 31 '42

Maintenance of high pressure boilers. F. D. Mosher. il diag Heat & Ven 39:30-2 S '42

Rough-and-tumble boiler plant. E. J. Duff. diags Power 86:567-8 Ag '42

Will this shut the boiler down? soot and ashes left on tubes. Power Pl Eng 46:94-5 Ag '42

Management

Comments on the operation of high-pressure, high-capacity boilers. il diag Locomotive 44:98-106+ O '42

Maximum output from existing boilers; abstracts. E. G. Bailey. il Power 86:324-5 My '42; Elec W 117:1344-6 Ap 18 '42; Power Pl Eng 46:100-2 My '42

Need more steam from your boilers? H. Spring. il diags Power 86:41-3 Ja '42

Saving fuel. Management R 31:386-7 N '42

Safety measures

Cause and prevention of explosion hazards; unburned fuel-air mixtures in boilers, ovens and driers. T. A. Cohen. il diags Food Ind 14:58-9+ Je '42

Low-pressure doesn't mean safe. A. F. Norcross. il Power 86:740-1 O '42

BOILER plates

Fatigue properties of welds made in various boiler plate materials; abstract. E. C. Huge. Iron Age 150:47 O 22 '42

Intercrystalline cracking in boiler plates. C. H. Desch and others. diags Iron & Steel Inst J 143:93-158, pl 12-27 no 1 '41; Abstract. Chem Age (Lond) 45:9-11 Jl 5 '41; Discussion. Iron & Steel Inst J 143:159-62 no 1 '41

BOILER scale

Handbook of feedwater treatment; scale. Power 85:866 D '41

Need more steam from your boilers? H. Spring. il diags Power 86:41-3 Ja '42

Some applications of X-ray diffraction methods to industrial chemistry; abstract. C. W. Bunn. Chem Age (Lond) 46:221 Ap 25 '42

Water problems in small power plants. E. P. Partridge and A. L. Soderberg. il Blast F & Steel Pl 30:664-6 Je '42

What the operator wants to know. A. Iddles. il Power Pl Eng 46:61-2 S '42

Analysis

X-ray fingerprints scale deposits. C. E. Imhoff and L. A. Burkardt. il Power 86:10-12 Ja '42

BOILER tubes

Heterodox tube cleaning. Power Pl Eng 46:93-4 O '42

How to install boiler tubes. E. J. Duff. diags Power 86:817-19 N '42

How to remove boiler tubes; illustrated instructions. Power 86:827 N '42

Lance boiler tubes through special ports. il Elec W 117:1867 My 30 '42

New mercury-vapor power plant; Kearny plant; specifications for welding boiler tubes. A. R. Smith and E. S. Thompson. Steel 110:87-8 Ja 12 '42

Reclaiming copper tubes by welding. il Ry Mech Eng 116:382-3 S '42

Rolling boiler tubes. diags Power 86:593 Ag '42

Special measures correct tube trouble. diags Elec W 117:1868 My 30 '42

Why boiler tubes bow up and down. Power Pl Eng 46:79 Je '42

Will this shut the boiler down? soot and ashes left on tubes. Power Pl Eng 46:94-5 Ag '42

BOILERS

Abstracts of A.S.M.E. papers, 62d annual meeting, New York. Oil & Gas J 40:38+ D 18 '41

Beacon boiler reference book. 554p $3 Heating journals, 232 Madison av, New York '40

Best way to lay up boilers. Power Pl Eng 46:98-9 O '42

Boiler care under war time production schedules. il Locomotive 44:37-43 Ap '42

Boiler maintenance largely a matter of elementary dont's. il Oil & Gas J 40:182-4 Ap 30 '42

Capacity of steam boilers. G. M. Stearns. Oil & Gas J 41:63 Ag 27 '42

Converts horizontal return tubular boilers to water heaters. diags Power 86:185 Mr '42

Discontinuance of boilers from service. T. C. Smith. Am Pet Inst Proc 22(4):118-19 '41

How to buy a secondhand boiler; methods of inspection and test. H. Spring. il Power 86:506-7 Jl '42

Maintenance of high pressure boilers. F. D. Mosher. il diag Heat & Ven 39:30-2 S '42

Maximum output from existing boilers; abstracts. E. G. Bailey. il Power 86:324-5 My '42; Elec W 117:1344-6 Ap 18 '42; Power Pl Eng 46:100-2 My '42

New type boiler for New England. Franklin Inst J 233:296 Mr '42

Operation and maintenance of high-pressure boilers. F. D. Mosher. il diags Paper Ind 24:156-9 My '42

Power-plant problems; summary of discussion of ten questions by A.S.M.E. power division. Mech Eng 64:669-72 S '42

Reducing grit emission from boilers; patent. Gas J (Lond) 236:289 N 19 '41

Review of recent progress in heat transfer; discussion. Engineering 153:354-5 My 1 '42

Utilisation of spare and standby boilers. il diags Engineer 173:534-5 Je 26 '42

Wartime power problems; round-table session at ASME semi-annual meeting. diags Power 86:472-3 Jl '42

What the operator wants to know. A. Iddles. il Power Pl Eng 46:70-3 O; 77-81+ N '42

See also

Boiler explosions and other headings beginning Boiler
Feed water
Feed water purification
Flue gas
Furnaces, Boiler
Grates

Baffles

Boiler baffles improve draft, increase output. diag Elec W 117:1833 My 30 '42

More steam; how? baffles not always necessary. A. Iddles. Elec W 118:1470 O 31 '42

Blowdown

Circulating blowoff system that works. R. O. Barnhart. il diag Power Pl Eng 46:76 Je '42

Handbook of feedwater treatment; blowdown. diags Power 85:880-1 D '41

Installing boiler blow-down receiver and piping. J. C. Albright. il Pet Eng 13:73 Ag '42

BOILERS—Blowdown—*Continued*

Surface blowdown keeps oil from boilers. P. E. Meredith. il Power 86:424 Je '42

Control

Boiler control; a modern centralised installation. il Elec R (Lond) 130:295-300 Mr 6 '42

Combustion control keeps 'em rolling; multi-fuel boiler. C. R. Earle. diags Power 86:246-7 Ap '42

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

Fuel economy in boiler operation; improved automatic control. D. D. Howat. il diags Chem Age (Lond) 47:77-81, 99-102, 123-6, 151-6 Jl 25-Ag 15 '42

Practical aspects of damper control. P. S. Dickey and H. L. Coplen. diags Power Pl Eng 46:60-2 Ja '42

Progress in combustion control. J. F. Springer. il Rayon 22:556-9, 627-8, 689-90, 743-5; 23:48-50, 175-6, 431+ S '41-Ja, Mr, Jl '42

Trends in combustion control. M. J. Boho. il diags Paper Tr J 114:38-42 Ap 30 '42

Corrosion

Handbook of feedwater treatment; corrosion. Power 85:866, 876 D '41

More steam, how? boiler tube corrosions. A. Iddles. il Elec W 118:168 Jl 11 '42

More steam; how? copper on high-pressure boilers. A. Iddles. Elec W 118:312+ Jl 25 '42

Pipeline and boiler corrosion. F. G. Straub. Power Pl Eng 46:73 Ja '42

Stop corrosion by controlling pH. L. F. Wirth. il Power Pl Eng 46:57-8 Ag '42

What the operator wants to know. A. Iddles. Power Pl Eng 46:62-3 S '42

Design

Comments on the operation of high-pressure, high-capacity boilers. il Locomotive 44:98-106+ O '42

Compact steam generator; Vapor-Clarkson steam generator. il diag Engineer 173:236 Mr 13 '42

Development of the steam boiler. H. F. Reeman. Inst Mech Eng J & Proc 147:Proc 72-4 My '42

Meeting wartime fuel problems. O. Craig. diags Mech Eng 64:697-702 O '42

Montaup boiler nears completion. il diags Power Pl Eng 46:52-3 Ja '42; Same cond. Mech Eng 64:136-7 F '42

More steam; how? slag, ash, boiler design. A. Iddles. Elec W 118:808-9 S 5 '42

Weld done; first U.S. forced-circulation boiler. il diag Power 86:34-5 Ja '42

Efficiency

Combustion corrections gain large capacity; elimination of erosion and clogging through addition of tubes and changes in economizer. il diag Elec W 118:925 S 19 '42

Efficiency of steam boilers. G. M. Stearns. Oil & Gas J 41:69 S 10 '42

How to determine boiler efficiency. W. F. Schaphorst. Am Gas J 156:37-8 My '42

Increasing boiler output. V. Walker. Elec R (Lond) 131:13-15 Jl 3 '42

More power from existing equipment. diags Power 86:75-8, 167-74 F-Mr '42

Morrell boiler tests. Power Pl Eng 46:57 Ap '42

Need more steam from your boilers? H. Spring. diags Power 86:42-3 Ja '42

Need more steam from your boilers? pointers on high-rating operation of oil-fired horizontal return tubular boilers. J. O. G. Gibbons. diags Power 86:341 Ap '42

New rule for efficiency of gas fired boilers. W. F. Schaphorst. Am Gas J 157:30 Ag '42

Soot blower; suggestion of longer operational periods for boilers; discussion. Electrician 129:14-17 Jl 3 '42

Steam economy and CO_2. D. D. Howat. il diags Chem Age (Lond) 47:202-4, 221-3 Ag 29-S 5 '42

Test shows small-unit efficiency; Wyndmoor, Pa. laboratory of U.S. Dept. of agriculture. T. A. Marsh. il diag Power 85:923-4+ D '41

Electric heating

Electric boiler plant; Royal Hobart hospital, Tasmania. il Elec R (Lond) 129:697 D 19 '41

Electric steam molds rubber plates. il Elec W 117:118 Ja 10 '42

Embrittlement

See Boilers—Failures

Equipment

Remote water level indicator for boilers. il diag Engineer 172:460 D 26 '41; Engineering 153:7-8 Ja 2 '42

See also
Stokers, Mechanical

Failures

Handbook of feedwater treatment; embrittlement. Power 85:867, 876-7 D '41

Intercrystalline cracking in boiler plates. C. H. Desch and others. diags Iron & Steel Inst J 143:93-158, pl 12-27 no 1 '41; Abstract. Chem Age (Lond) 45:9-11 Jl 5 '41; Discussion. Iron & Steel Inst J 143:159-62 no 1 '41

Intercrystalline cracking of boiler steel and its prevention. W. C. Schroeder and A. A. Berk. il diags U S Bur Mines Bul 443:1-85; pa 15c Supt. of doc. '41; Abstract. Power 86:575-7 Ag '42

Science tackles embrittlement problem; abstracts of papers, American society of mechanical engineers. diags Power 85:978-9 Mid-D '41

See also
Locomotive boilers—Failures

Firing

Better utilization of coal. E. G. Bailey. Mech Eng 64:301-6 Ap '42

Burning low grade coals. W. F. Schaphorst. Heat & Ven 39:27 Ap '42

Cause and prevention of explosion hazards; unburned fuel-air mixtures in boilers, ovens and driers. T. A. Cohen. il diag Food Ind 14:58-9+ Je '42

Elimination of carryover under steel mill operating conditions. H. M. Rivers and W. P. Hill. Blast F & Steel Pl 30:1151-4 O '42

From oil to coal. D. M. Myers. il diags Factory Management 100:121-8 S '42

Fuel cost chart. W. F. Schaphorst. Chem Ind 51:381 S '42

Fuel engineers' conference, Easton, Pa. Oct. 30-Nov. 1. Power Pl Eng 45:75-6 D '41

How to determine forced draft air requirements. E. M. Sims. chart(p108) Power Pl Eng 46:94 F '42; Discussion (Forced draft requirements get Joe steamed up). 46:86-8 Ag; 104, 106+ N '42

Increasing boiler output. B. Walker. Elec R (Lond) 131:13-15 Jl 3 '42

Meeting wartime fuel problems. O. Craig. diags Mech Eng 64:697-702 O '42; Abstract. Power 86:801+ N '42

Modernizing plant broadens choice of coal. T. Maynz. Coal Age 47:90+ S '42

More power from existing equipment; step-up stokers for war loads. L. N. Rowley. diags Power 86:167-74 Mr '42

Oil to coal in wartime. il diags Power 86:696-702 O '42

Rear arch improves underfeed-stoker operation. D. J. Mosshart. diags Power 86:384-5 Je '42

Richmond's three-year record shows low stoker maintenance. H. C. Carroll. il Power 86:502 Jl '42

Standby equipment and policies. W. T. Ivey. il Gas Age 89:20-1+ Mr 26 '42

Steam generation with available fuels. O. de Lorenzi. Steel 111:82, 100-3 O 19; 80, 82+ O 26 '42

Use of mixtures of oil and coal in boiler furnaces. W. C. Schroeder. bibliog Mech Eng 64:793-8+ N '42; Abstract. Nat Pet N 34 pt 2:R363-4+ O 28 '42

BOILERS—Firing—*Continued*

Ways to avoid high stoker maintenance and retain good combustion; abstract. A. R. Mumford. diag Power 86:800-1 N '42

West Virginia coal meeting covers vital fuel needs. Power Pl Eng 46:112+ S '42

Where medium-grade coals should be preferred. E. G. Bailey. diags Coal Age 47:87-8+ S '42

See also

Boilers—Electric heating

Boilers—Gas firing

Boilers—Oil firing

Boilers—Wood firing

Boilers, Heating—Firing

Stokers, Mechanical

Foaming and priming

Conductivity meters give carry-over data. Elec W 118:316-17 Jl 25 '42

Effect of priming on degree of superheat. G. M. Stearns. Oil & Gas J 41:61 Ag 27 '42

Elimination of carryover under steel mill operating conditions. H. M. Rivers and W. P. Hill. Blast F & Steel Pl 30:1151-4 O '42

Handbook of feedwater treatment; carryover. Power 85:866-7, 876 D '41

Gas firing

Combustion calculations simplified for liquid and gaseous hydrocarbon fuel. H. Cooney. Power Pl Eng 46:71 Ja '42

Dust problems in burning blast furnace gas under steam boilers. A. R. Mumford. Blast F & Steel Pl 30:782+ Jl '42

Economy in construction with gas fuel; gas-generated steam hoists steel girders into place. il Gas Age 89:17 Mr 12 '42

Heating value by gas analysis. G. M. Stearns. Oil & Gas J 41:49 S 3 '42

Natural-gas burners in chain-grate-fired boilers to supplement coal firing; abstract. B. L. Crain. Power 86:838a N '42

New rule for efficiency of gas fired boilers. W. F. Schaphorst. Am Gas J 157:30 Ag '42

Step-up stokers for war loads; auxiliary firing; oil or gas burners installed. L. N. Rowley. diags Power 86:173 Mr '42

See also

Boilers, Heating—Gas firing

Heating boilers

See Boilers, Heating

Manufacture

Welding stainless pressure vessels. G. H. Sandberg. il Am Mach 86:293-5 Ap 2 '42

Marine boilers

See Boilers, Marine

Oil firing

Changes in oil burners increase CO_2. P. E. Merideth. diags Power 86:427 Je '42

Combustion calculations simplified for liquid and gaseous hydrocarbon fuel. H. Cooney. Power Pl Eng 46:71 Ja '42

Combustion control keeps 'em rolling; multi-fuel boiler. C. R. Earle. diags Power 86:246-7 Ap '42

Constant differential oil burning systems. il diags Rayon 23:429-30 Jl '42

Design of an oil fired high pressure steam plant. K. Steiner. il Heating-Piping 14:32-5, 114-16 Ja-F '42

Determining fuel oil heat losses. W. F. Schaphorst. chart Pet Eng 13:127 Je '42

More steam—how? removal of fuel-oil slag. A. Iddles. Elec W 118:1300+ O 17 '42

Need more steam from your boilers? pointers on high-rating operation of oil-fired horizontal return tubular boilers. J. O. G. Gibbons. diags Power 86:341 Ap '42

Step-up stokers for war loads; auxiliary firing; oil or gas burners installed. L. N. Rowley. diags Power 86:173 Mr '42

Pulverized coal firing

Adapting automatic combustion control to the characteristics of pulverizers. W. H. Pugsley. Blast F & Steel Pl 30:895-8 Ag '42

Adjustments to pulverized coal burners and furnaces required by various coals. O. Craig. Concrete (mill sec) 50:127 F '42

Adjustments to pulverized coal burners required by various coals. F. G. Ely. Concrete (mill sec) 50:140-2 Mr '42

American society of mechanical engineers and American institute of mining and metallurgical engineers joint fuels conference, Easton, Pa. Oct. 30-Nov. 1. Power 85:926+ D '41

Change operation of pulverizing equipment when the coal is changed. H. Kreisinger. Concrete (mill sec) 50:112-13 Ja '42

Combustion control keeps 'em rolling; multi-fuel boiler. C. R. Earle. diags Power 86:246-7 Ap '42

Fly ash erosion in steel mill boilers. J. H. Reid. il diags Steel 111:68, 70+ Ag 24 '42

From oil to coal. D. M. Myers. diags Factory Management 100:125-7 S '42

Maximum output from existing power plants. E. G. Bailey. il Concrete (mill sec) 50:170-1 My '42

More steam; how? check coal-air ratio. A. Iddles. Elec W 118:638 Ag 22 '42

More steam; how? pulverizer operation. A. Iddles. Elec W 118:476+ Ag 8 '42

New high pressure boilers in South Wales; pulverising equipment. H. V. Pugh. diags Mech Handling 28:237-9 N '41

Principal function of pulverized-coal burners. H. Kreisinger and V. Z. Caracristi. il diags Mech Eng 64:365-8 My '42; Abstract. Power 85:981 Mid-D '41

Pulverizer capacity, fineness and moisture. A. C. Foster. diag Power Pl Eng 46:66-7 Ja '42

War takes electric power, paper mill burns coal; new boilers at Price brothers and company. J. W. Gathercole. il diag Pulp & Pa of Can 43:509-16 Je '42

What the operator wants to know. A. Iddles. Power Pl Eng 46:3+ S '42

Repair

How to install boiler tubes. E. J. Duff. diags Power 86:817-19 N '42

Rolling boiler tubes. diags Power 86:593 Ag '42

Welded repairs to girth seams of boilers. O. W. Malarkey. diags Power Pl Eng 46:92-3 O '42

Safety measures

Combustion safeguards for boiler furnaces. T. A. Cohen. il diags Power Pl Eng 46:62-4 Ap '42

Safety valve sizes. Power Pl Eng 46:97 Ap '42

Settings

We reset a boiler. B. H. Whitehouse. il diags Power Pl Eng 46:98-9 Jl '42

Standards

Adopt standard sizes in boilers and radiators to conserve defense metals. Am Bld 63:75 D '41

A.S.M.E. boiler code committee testimonial dinner to Dr D. S. Jacobus. Mech Eng 64:153-5 F '42

Report of the A.P.I. committee on the standardization of oil-field boilers. Am Pet Inst Proc 22(4):112-19 '41

Revisions and addenda to boiler construction code (cont). diags Mech Eng 63:921-3; 64:146-9, 234, 315-16, 398-401, 490-3 D '41, F-Je '42

Testing

Morrell boiler tests. Power Pl Eng 46:57 Ap '42

Water tube boilers

See Boilers, Water tube

Wood firing

Burning wood waste on stokers. B. H. Whitehouse. Power Pl Eng 46:95 Mr '42

Plant-designed woodburning setup meets test of experience; Standard furniture co.'s plant. il diag Power 85:903-5 D '41

BOILERS—Wood firing—*Continued*

Utilization of wood refuse for steam raising. R. B. Gillham. Inst Mech Eng J & Proc 147:Proc 32-9, pl 1-2 Ap '42; Same cond. Engineer 173:71-3 Ja 23 '42; Same cond. Engineering 153:198-200 Mr 6 '42; Discussion. diags Inst Mech Eng J & Proc 147:Proc 40-8, 185-8 Ap, S '42; Engineering 153:55-6 Ja 16 '42

BOILERS, Heating

Boiler firebox maintenance. K. Steiner. il Heating-Piping 14:610-12 O '42 (to be cont)
Change in piping corrects trouble with boiler water level. R. S. Hawley. diag Heating-Piping 14:236 Ap '42
High pressure heating boilers. F. D. Mosher. il diag Heat & Ven 39:38-41 Mr '42
Pointers on how to conserve equipment. Heat & Ven 39:30-2 My '42

Efficiency

Figuring heat balance, anthracite burning equipment; reference data. Heat & Ven 39:114a-114b Ja '42

Firing

Coal for oil; old competitors cooperating and WPB easing the change. Business Week p16-17 My 16 '42
Combustion testing; advantages and means. W. H. Pugsley. diag Dom Eng 158:63-4+ D '41
Domestic stoker for bituminous coal; stoker designed to burn highly coking slacks and small sizes. S. W. Guthrie. il diag Mech Eng 64:599-603 Ag '42
Emergency heating plant conversion from oil to coal. A. J. Johnson. Heat & Ven 39: 27-9 My '42
How can we burn both coal and oil? diags Heating-Piping 14:542-3 S '42
Increasing capacity of undersized boilers. T. W. Reynolds. Heat & Ven 39:22 Ag '42
Operation of hand-fired heating plant in mild weather, including care when not in use. diag Consumers' Research Bul 9:14-16 Ap '42
Stoker study on automatic heat with Pennsylvania bituminous progresses at Penn State; abstract. A. W. Gauger. Heat & Ven 39:61 My '42

Gas firing

Gas heat aids windowless machine shop. G. H. Watson. il Gas Age 90:24-5 Ag 27 '42
Gas service manual; boilers. W. L. Riehl. diags Gas Age 89:34+ Mr 12 '42
Orchids in Oklahoma; greenhouse heating with gas. W. J. Douvall. il diags Gas Age 90:57-8 O 8 '42
Waco school buildings converted to gas. Gas Age 90:33 Ag 13 '42
Year 'round hot water from your heating plant. J. F. Droge. Am Gas J 156:21-2 Ja '42

Manufacture

Welding domestic oil furnaces and boilers; General electric co. J. E. Waugh. il Steel 110:84, 86+ Ap 20 '42

Oil firing

Contractor's answer to problem of fuel rationing; figuring fuel requirements in medium and large buildings. H. T. Kucera. Dom Eng 160:62-8 S '42
Fuel oil economy. Dom Eng 159:80+ Ja '42
How to save fuel oil; in factory heating, heat treatment, etc; prepared by staff of Socony-Vacuum oil company. il Factory Management 100:99-104 Je '42
Improvised burner serves emergency needs. S. S. Koch. Power 86:406-7 Je '42
Securing economy in the use of oil for heating. Roads & Bridges 80:58 F '42
Twenty years of progress in domestic oil heating. R. J. Bender. bibliog il diags Mech Eng 64:731-40 O '42

Pulverized coal firing

Efficiency boosted at University of Idaho central heating plant. H. F. Gauss. il diags plan Power 86:222-5 Ap '42

Rating

Boiler-burner units and boilers for use with oil burners. Consumers' Research Bul 9: 14-15 F '42
Coal-burning heating systems; a report on magazine-feed boilers for anthracite coal, on stokers and boilers for anthracite and bituminous coal. Consumers' Research Bul 9:8-10 N; 14 D '41; Correction. 9:25 Mr; 20 Ap '42

Safety measures

Low water feeders and fuel cut-offs on steam heating boilers. il Locomotive 44: 71-4 Jl '42
Safe combustion; devices which prevent boiler explosions. T. A. Cohen. il diags Dom Eng 159:62-3+ Mr '42

Wood firing

Sawdust burners heat buildings and homes automatically. E. C. Willey. il diags Heat & Ven 39:43-6 O '42

BOILERS, Marine

Defective dry pipe in boiler discovered by indicating engine. R. E. Fontaine. diags Marine Eng 47:132 F '42
Interchangeability important in Liberty ship boilers. diag Marine Eng 47:197 O '42
Marine boilers. T. B. Stillman. bibliog(33 titles) il diags Mech Eng 64:279-87 Ap '42
Marine pipe covering. W. W. Godwin. 142p $2 Cornell maritime press, 350 W. 23d st, New York '42
Propelling machinery of cross-Channel packets. W. Gregson. diags plans Inst Mech Eng J & Proc 147:Proc 156-64, pl 4-5 S '42; Same. Engineering 153:258-60 Mr 27 '42; Same cond. Engineer 173:113-15 F 6 '42

Firing

Spreader stokers applied to marine boilers. O. de Lorenzi. il diags Mech Eng 64:549-54 Jl '42; Discussion. 64:808-10 N '42

BOILERS, Mercury

Mercury cycle given go-sign at power session, American society of mechanical engineers, New York, Dec. 1-4. Elec W 116: 1875 D 13 '41
Mercury for process heating; efficient operation at high temperatures. H. Seymour. diag Chem Age (Lond) 47:157-60 Ag 15 '42
Mercury-vapor system attains reliability. H. N. Hackett. diag Power Pl Eng 46:79-80 F '42; Abstract. Power 85:973 Mid-D '41
New mercury-vapor power plant; Kearny plant. A. R. Smith and E. S. Thompson. il diags Steel 110:52-3, 84, 87-8 Ja 12 '42

BOILERS, Waste heat

Lehigh returns to the dry process; Alsen, N.Y. plant; waste heat plant produces excess power. B. Nordberg. il Rock Prod 45:36 Jl '42

BOILERS, Water tube

Another advance in power generation; Twin Branch station of the Indiana and Michigan electric company. il Locomotive 44: 24-6 Ja '42
Comments on the operation of high-pressure, high-capacity boilers. il diag Locomotive 44:98-106+ O '42
Compact steam generator; Vapor-Clarkson steam generator. il diag Engineer 173:236 Mr 13 '42
Efficiency boosted at University of Idaho central heating plant. H. F. Gauss. il diags plan Power 86:222-5 Ap '42
Interchangeability important in Liberty ship boilers. diag Marine Eng 47:197 O '42
Marine boilers. T. B. Stillman. bibliog(33 titles) il diags Mech Eng 64:279-87 Ap '42
Modern steam generator takes bigger load from tubular boilers; Centralia coal co. F. W. Richart. il diags Coal Age 47:59-61 Ag '42
Montaup boiler nears completion. il diags Power Pl Eng 46:52-3 Ja '42; Same cond. Mech Eng 64:136-7 F '42
New boiler and turbine for St Mary's hospital. J. H. Herzog. il diag Power 86:581-2 Ag '42
Strange case of the leaky nozzle flanges. J. Gorrie. diags Power 86:45 Ja '42

BOILERS, Water tube—*Continued*

Water tube boiler practice. H. Pryce-Jones. Electrician 129:393-4 O 9 '42; Abstract. Elec R (Lond) 131:458-9 O 9 '42

Why watertube boilers bulge. H. Spring. diags Power 85:906-7 D '41

La Mont boiler

Forced circulation in steam generation. J. G. Coutant. diag Blast F & Steel Pl 30:250-2 F '42

BOILING points

Analysis of the ternary system ethanol-methanol-water; requiring boiling point, refractive index, and specific gravity of the sample. J. Griswold and J. A. Dinwiddie. bibliog Ind & Eng Chem Anal ed 14:299-300 Ap 15 '42

Boiling point-composition data of the methyl alcohol-dioxane system. F. L. Padgitt, E. S. Amis and D. W. Hughes. Am Chem Soc J 64:1231-2 My '42

Boiling point nomograph for *n*-alkyl primary amines. D. S. Davis. Ind & Eng Chem 34: 1414 N '42

Boiling points of *n*-alkyl acids. W. O. Pool and A. W. Ralston. bibliog(56 references) Ind & Eng Chem 34:1104-5 S '42

Entropy of vaporization and density of liquids at their boiling points. J. H. Simons and R. K. Smith. bibliog J Phys Chem 46:380-7 Mr '42

Indirect estimation of critical temperature and of molar refractivity. R. Livingston. J Phys Chem 46:341-3 Mr '42

Micromethod for identification of volatile liquids; vapor pressure, boiling point, and olefin content of cyclobutane and *cis*-2-butene. S. W. Benson. bibliog diag Ind & Eng Chem Anal ed 14:189-91 F 15 '42

Some peculiarities in the *P-T* border curves of mixtures of hydrogen and a petroleum naphtha. W. B. Kay. bibliog Chem R 29: 501-7 D '41

Study of organic parachors; constitutive variations of the parachors of a series of normal ketones. K. Owen, O. R. Quayle and W. J. Clegg. Am Chem Soc J 64:1294-6 Je '42

Supersaturation in sugar boiling operations; continuous automatic measurement. A. L. Holven. bibliog diags Ind & Eng Chem 34: 1234-40 O '42

Viscosity of naphtha-resin solutions. E. H. McArdle and E. L. Baldeschwieler. Ind & Eng Chem 34:882-5 Jl '42

BOILS

Epidemic of boils in a group of tunnel workers. J. Q. Gant, R. J. Owens and L. Schwartz. bibliog Pub Health Rep 57:612-17 Ap 24 '42

BOISE water corporation

Sells bonds privately. Comm & Fin Chr 156: 308+ Jl 27 '42

BOLIVIA

Bolivia, a buffer state, could become a fortress, its tin our hedge against a Pacific war. il map Fortune 25:68-77 Ja '42

See also

Bonds, Government—Bolivia
Mines and mineral resources—Bolivia
Rubber industry and trade—Bolivia
Tin mines and mining—Bolivia

Commerce

Foreign trade of Bolivia for 1938 and 1939. 12p Pan American union, Washington, D.C. '41

Economic conditions

Bolivia's economy in 1941. il For Comm W 7: 10-11+ Je 6 '42

New perspectives in Bolivia. Economist 143: 270 Ag 29 '42

United States economic mission to Bolivia. For Comm W 5:29 D 27 '41

Foreign relations

United States

Politics in Bolivia. Economist 143:109-10 Jl 25 '42

BOLOMETERS

Attenuated superconductors; for measuring infra-red radiation. D. H. Andrews and others. bibliog il diags R Sci Instr 13:281-92 Jl '42

Bolometer as a power meter at ultra-short waves; abstract. H. Meinke. Wireless Eng 19:484-5 O '42

BOLT, Richard H. 1911-

Biennial award for noteworthy contributions to acoustics. V. O. Knudsen. por Acoustical Soc Am J 14:111-12 Jl '42

BOLTON, Elmer Keiser, 1886-

Chemical industry medal for 1941. Ind & Eng Chem 34:53 Ja '42

Portrait. News Ed 19:1404 D 10 '41

BOLTS and nuts

Acorn lock nut. diag Iron Age 150:57 S 24 '42

Arc welders work out method for removing broken stud bolts. A. F. Davis. il Welding J 21:177 Mr '42

Bolts, nuts & screws. A. E. R. Peterka, comp. 68p $1 Lamson & Sessions co, Cleveland '41

Broken stud removal simplified by welding. il Mass Transportation 38:79 Mr '42

Crow foot anchor bolts stay put; use of molten sulfur. B. H. Whitehouse. diags Power Pl Eng 46:112-13 My '42

Elastic stop nut corp. gang channel nuts. Aeronautical Eng R 1:55 My '42; il Iron Age 149:46 My 21 '42

How to install foundation bolts. A. H. Korn. diags Power 86:415-16 Je '42

Load relations in bolted joints. T. J. Dolan. diags Mech Eng 64:607-11 Ag '42

Nut runner for utility salvage shop. il Elec W 118:492 Ag 8 '42

Selecting size and number of bolts in tension; charts. J. P. Doolan. Machine Design 14:87-8 F '42

Stop nuts now available in anchor type. il Sci Am 165:346-7 D '41

Strength analysis of riveted and bolted joints. W. A. McGowan. diags Aviation 41:91-2, 95-6, 99+ Ap; 105, 107, 109, 111-12+ My '42

Stud-welding system. A. M. Candy. il plan Welding J 21:509-12 Ag '42

Tilt-nut. il Engineer 173:436 My 22 '42

War emergency specifications are proposed for refinery bolting to conserve alloys. Nat Pet N 34 pt 2:R257-9 Ag 26 '42

Westinghouse shares its know how; M. Hetenyi's research on nut and bolt fastenings; abstract. A. A. Bates. Paper Tr J 114:70 Je 25 '42

Manufacture

Bolts by hot heading. H. Chase. il diag Am Mach 86:952-5 S 3 '42

Bolts; material, heat treatment and physical properties. A. S. Jameson. il diag Iron Age 149:57-60 My 7; 52-7+ My 14 '42

Cold header or screw machine? H. Chase. il diags Iron Age 148:62-7 D 4 '41

Conserves alloys in bolting materials; M. W. Kellogg co. Steel 111:92, 94, 97 N 2 '42

Heat treating cold-headed products. H. Chase. il Steel 110:72, 74 Mr 2 '42

Inspecting bolts, nuts and screws; Lamson & Sessions company plants. il Am Mach 86:496-9 My 28 '42

Locomotive bolts machined quickly on Gisholt 1L turret lathes. J. E. Carroll. il Am Mach 86:500-1 My 28 '42

Standards

Translating thread standards; reference book sheet. Am Mach 86:741 Jl 9 '42

Testing

Corrosion study of bolting materials and coatings. O. A. Halvorson. Am Water Works Assn J 34:76-84 Ja '42

Development of play in bolted joints under fatigue; abstract. B. Dirksen. Roy Aeronautical Soc J 46:sup300-1 Ag '42

Photoelastic analysis points to stronger bolts. il Product Eng 13:476 Ag '42

BOMB calorimeters. See Calorimeters and calorimetry

BOMB sights
Bomb sight for light airplanes. il diags Aero Digest 41:214 Ag '42

BOMBAY
See also
Labor and laboring classes—Bombay

BOMBER CITY. See Willow Run (proposed Bomber City)

BOMBERS. See Airplanes, Military

BOMBS
Bomb casings of vitrified clay would cut steel consumption. Brick & Clay Rec 99:36 N '41
Cast bomb shells in Canadian plant. P. Dwyer. il plan Foundry 69:50-3+ D '41; 70:64-6, 134+ Ja '42
Stamets bomb boring, facing, and tapping machine. il Mach 49:196 S '42

BOMBS (chemical apparatus)
Determination of critical temperatures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. Ind & Eng Chem Anal ed 14:171-4 F 15 '42
Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

BOMBS, Aerial
Air-defense methods for repair of gas mains damaged by bombs. G. E. Szekely. diags Am Gas Assn Mo 24:127-30+ Ap '42
Approximate mechanics of falling bodies. W. R. Crawford. Engineer 172:430-2 D 19 '41
Better handling equipment speeds bomb production. il Steel 111:74+ S 21 '42
Bomb damage; examples of supply system incidents. il Elec R (Lond) 130:235-7 F 20 '42
Bomb tests of materials and structures; developing designs for air-raid shelters. il Eng N 128:185-7 Ja 29 '42
Bombs and bombing. il diags Power Pl Eng 46:60-2 N '42
Camouflage; methods of bombing. il plan Arch Forum 76:16-17 Ja '42
Civilian defense; building protection; demolition. il diags Arch Forum 76:32-5 Ja '42
500,000 million horse power in a modern bomb? W. F. Schaphorst. Water Works & Sewerage 89:396 S '42
Growth of fire power in navy planes. J. B. Hancock and E. Burton. il Aero Digest 40:64-5+ Mr '42
How to minimize damage from bombs. il Factory Management 100:106-7 Ja '42
Mechanical handling devices speed cleaning of shell and bombs. il Steel 110:88+ Je 1 '42
Protection of oil storage from bombs difficult. J. P. O'Donnell. il Oil & Gas J 40:39 Mr 12 '42
Russian Sturmovik; rocket aerial bombs. Iron Age 150:48 Jl 2 '42
Seamless bombs from steel plate. J. B. Nealey. il diags Am Mach 86:1117-22 O 1 '42
Some physical effects of bombing. H. G. Baity. diags Am Water Works Assn J 34:513-22 Ap '42
Ventilation and heating of air raid shelters; bombs and shelters. F. F. Kravath. diags plans Heat & Ven 39:36-41 F '42
Welded demolition bombs. J. J. Target. il Metals & Alloys 16:634-8 O '42

Manufacture

Aircraft bomb fuzes; Westinghouse electric & manufacturing company. il diags Am Mach 85:1323-33 D 24 '41
Army's auxiliary booster tube; phenolic woodflour. il diags Mod Plastics 20:65-6+ O '42
Bomb casings produced by spinning. il Blast F & Steel Pl 30:464 Ap '42
Bombs from seamless tube. il Iron Age 149:59 Mr 19 '42
Casting 500-lb. aerial bombs. diags Iron Age 149:59-61 Je 4 '42
Quality control in bomb fuze manufacture. A. L. Atherton. il Steel 110:58-61 Ja 19 '42

BOMBS, Incendiary
Air raid instructions. H. E. Ashmore. Am Gas J 156:13-14 Mr '42
Cement as a fire extinguisher. R. Cross. Science 95:275-6 Mr 13 '42
Chemists overcome incendiary bombs. A. H. Nuckolls. il Weekly Underw 146:327-9 F 7 '42; Abstract. Nat Underw 46:6 Ja 29 '42
Civilian defense; building protection; fire. il diags Arch Forum 76:28-9 Ja '42
Control of incendiary bombs. diags Nat Safety N 45:13-14+ Mr '42
Detecting incendiary bombs; electrical means. Elec R (Lond) 129:511 N 7 '41
Detection of incendiary bombs; simple automatic devices. Electrician 127:269-70 N 7 '41
De Vilbiss painting machine for four pound incendiary bomb. Metal Finishing 40:632 N '42
Extinguisher for magnesium fires. Eng N 128:929 Je 4 '42
Feldspar for extinguishing magnesium incendiary bombs. Franklin Inst J 234:298-9 S '42
Feldspar for extinguishing magnesium incendiary bombs; abstract. W. W. Rubey, M. Fleischer and J. J. Fahey. Chem & Met Eng 49:155-6 Ag '42
Fighting incendiary fires in aircraft plants. il Aero Digest 41:102+ Ag '42
Fighting the fire bomb. Diesel Power 20:588+ Jl '42
Fighting the fire bomb! il diag Safety Eng 83:20-2 Ja '42
Fires resulting from aerial bombing. G. W. Booth. Weekly Underw 147:1066-7 N 7 '42
High-speed fire alarm for detecting incendiary bombs. il diags Engineer 171:225 Ap 4 '41; Abstract. Elec W 117:111-12 Ja 10 '42
How to fight the fire bomb; illustrated instructions. Power 86:pt2[fold insert] Ap '42
Incendiary-bomb detection. E. Burke. il diag Elec R (Lond) 130:429-30 Ap 3 '42; Same cond. Elec W 118:153-4 Jl 11 '42; Discussion. Elec R (Lond) 130:565, 627 My 1, 15 '42
Incendiary bomb fighting. J. A. McGuckin. Nat Underw 45:10 D 11 '41
Incendiary bomb structural protection. S. H. Ingberg. Weekly Underw 147:800-1 O 3 '42
Incendiary fires. R. R. Sayers. Safety Eng 82:26 N '41
Ingenious shovel for handling incendiary bombs. il Bus Transportation 21:187 Ap '42
Japanese incendiary bombs; abstract. diags Am Water Works Assn J 34:1693-4 N '42
Laboratory testing of magnesium incendiary bomb extinguishers. M. Fleischer and J. J. Fahey. Chem & Eng N 20:1110 S 10 '42
More advice on handling the fire bomb. Weekly Underw 146:546 Mr 7 '42
National Board holds water is best control for fires from bombs. East Underw 43:32 Ag 21 '42
National Board issues incendiary bomb rules. East Underw 43:23 Ag 7 '42
Petroleum pitch is found effective in combating magnesium fires. H. R. Brown, I. Hartmann and H. P. Greenwald. Nat Pet N 34 pt 2:R307+ S 30 '42
Pitch black; coal tar pitch for extinction of magnesium fires and incendiary bombs. il Safety Eng 83:17-18 F '42
Pitch extinguishes magnesium fires. R. R. Sayers. Foundry 70:96 Mr '42
Pitch for extinguishing incendiary fires. H. R. Brown and I. Hartmann. Weekly Underw 147:799-800 O 3 '42
Pitch the best incendiary extinguisher. Science 95:sup9-10 Ja 23 '42
Protecting cables from incendiaries. il Elec R (Lond) 129:412 O 17 '41
Protection against incendiary bombs. W. H. Easton. Power Pl Eng 46:56-7 Je '42
Protection of eyes against light from incendiary bombs. Franklin Inst J 233:487-9 My '42
Protection of natural gasoline plants from air raids. D. Attaway. il diags Pet Eng (Annual no) 13:142, 145-6, 148 [Jl] '42
Pumps for home protection; simple units for combatting incendiary bombs and fires can be made from available material. G. H. Stahler. il diags Sci Am 167:116 S '42

BOMBS, Incendiary—*Continued*

Selenium cells detect incendiary bombs. J. M. Hawkins. Illum Eng 36:951 D '41

Spent fuller's earth found effective in control of incendiary bombs. G. C. Jones. il Nat Pet N 34:R163-6+ My 27 '42

Structural protection against incendiary bombs. Franklin Inst J 233:381-2 Ap '42

Thermit, its uses in war and industry. J. H. Deppler. il Chem & Met Eng 49:93-7 Jl '42; Excerpts. Metals & Alloys 16:798+ O '42

War-time protection of industrial plants; protection against incendiarism. Chem & Met Eng 49:105-7 Ja '42

BON ami company

Special offering of stock. Comm & Fin Chr 155:1009 Mr 9 '42

BOND, Edward Johnson, jr. 1888-1941

Sketch. por Nat Underw 45:21+ N 20 '41; East Underw 42:29 N 14 '41; Weekly Underw 145:1141 N 15 '41

BOND investment trust of America

Offering. Comm & Fin Chr 156:954 S 14 '42

BOND stores, incorporated

Chain goes co-ed; will add women's suits and coats. Business Week p88 O 24 '42

BONDERIZING

Better handling facilities reduce processing time; bonderizing steel enclosures for switchgear and control equipment; Westinghouse electric & mfg. co. il Steel 109:85-6 D 1 '41

Rust-inhibiting plate expected to save tin; Bonderite K. Steel 110:60 Mr 2 '42

Steel cans? Business Week p80 Mr 14 '42

Wartime changes in metal containers. R. H. Lueck. il Food Ind 14:57-63 Ag '42

BONDS

Bonds and preferred stocks for income and appreciation. F. K. Dodge. Mag of Wall St 70:402-3+ Jl 25 '42

Defensive investment program for today's conditions. J. S. Williams. Mag of Wall St 69:442-3+ Ja 24 '42

Halsey, Stuart & co. year-end bond review. Comm & Fin Chr 155:456-7 Ja 29 '42

Investment experience of corporate bonds; results of bond study. H. G. Fraine. Trusts & Estates 74:301-3 Mr '42

Myth of the security affiliate. G. W. Edwards. Am Statis Assn J 37:225-32 Je '42

Non-callable bonds of high investment rating. Mag of Wall St 70:659 O 3 '42

Outlook for bonds; arguments for and against lower prices. Comm & Fin Chr 154:1546, 1656 D 18-25 '41

Prime versus speculative bonds; problems for the individual investor. Comm & Fin Chr 155:1033 Mr 12 '42

Selected bonds for income and price appreciation. J. S. Williams. Mag of Wall St 69:692 Ap 4 '42

Status of bonds as we enter 1942. J. S. Williams. Mag of Wall St 69:370-1+ Ja 10 '42

Weak bonds' day. Business Week p91-2 Mr 14 '42

See also

Debts, Public
Municipal bonds
New York stock exchange
Public utilities—Securities
Railroads—Securities
Securities
State bonds
Stock exchange
Stocks
Warrants, Stock purchase

Accounting

Fusion of financial transactions. R. L. Dixon. J Account 74:65-6 Jl '42

Default

Detail status of foreign dollar bonds. Comm & Fin Chr 155:1701 Ap 30 '42

Foreign dollar bonds serviced in full in 1941 were only 56.38% of total. Comm & Fin Chr 156:114 Jl 9 '42

Price ceiling on defaulted rails; heavy institutional liquidation overhangs the market. A. Jansen. Barron's 22:9 My 18 '42

SEC on interest on defaulted bonds. Comm & Fin Chr 156:1712 N 12 '42

Statistical analysis of publicly offered foreign dollar bonds. 16p Inst. of international finance, New York '42

Marketing

Freeze-outs hit; argument of I.B.A. against private placement of new bond issues. Business Week p76-7 N 15 '41

Utility bond market. W. F. Patton. Pub Util 28:675-81 N 20 '41

Maturity

See Bonds—Redemption

Price indexes

Moody's bond prices and bond yield averages. Published in weekly Thursday numbers of Commercial & financial chronicle

Standard and Poor's corporate bond prices; new series, monthly, Jan. 1937-Oct. 1941. Survey of Cur Business 22:19, S18 Ja '42

Prices

Averages, Nov. 1940-Nov. 1941. Fed Res Bul 28:45 Ja '42 [cont monthly]

Bond prices, 1938-1940 average; monthly Nov. 1940-Nov. 1941; weekly Dec. 1941. Fed Res Bul 28:46 Ja '42 [cont monthly]

Course of prices of railroad and miscellaneous bonds for 1941 on New York stock exchange, monthly; tabulation. Comm & Fin Chr 155:452-9 Ja 29 '42

Foreign governments and municipalities. Published in weekly Monday numbers of Commercial & financial chronicle

Listed bond quotations; transactions of the more active bonds on the New York stock and curb exchanges. Published in weekly numbers of Barron's

New York curb exchange. Published in weekly Monday numbers of Commercial & financial chronicle

New York stock record—bond record, daily, weekly and yearly. Published in weekly Monday numbers of Commercial & financial chronicle

Rating

Application of the bond tests adopted by New York state bankers' association. Comm & Fin Chr 155:751, 841 F 19-26 '42

Report of the ratings special committee, I.B.A. Comm & Fin Chr 154:1446 D 11 '41

Redemption

Few serious maturity problems in 1942. A. Jansen. Barron's 21:19 D 29 '41

Refunding

Fusion of financial transactions. R. L. Dixon. J Account 74:65-6 Jl '42

Present value as a factor in the selection of a refunding plan; case study of a regulated hydroelectric utility with a single bond issue outstanding. E. S. Loane and A. C. Thomas. J Account 74:230-41 S '42

Treatment of debt discount and premiums upon refunding. R. E. Healy. J Account 73:199-212 Mr '42; Abstract. Pub Util 29:698-9 My 21 '42

Salesmen

U.S. enlists Wall Street's aid; securities salesmen pitching in to sell war bonds. J. P. Broderick. Barron's 22:5-6 My 18 '42

Tables, calculations, etc.

Monthly bond values, showing accurate monthly values on bonds and other redeemable securities paying interest semiannually for quarter coupon rates from 1% to 6%. 2d ed 1156p $1.50 Financial pub. co, Boston '41

Streamlined bond yield formula. W. Y. Fulton. Barron's 21:18 D 8 '41

Valuation

New type of formula for valuation of bonds adopted by National association of insurance commissioners. Nat Underw 46:1+ Je 11 '42; Same. Nat Underw (Life ed) 46:3+ Je 12 '42

BONDS—*Continued*

Yields

Are industrial bond yields enough? E. L. Maas. Trusts & Estates 74:515-16 My '42
Averages, Nov. 1940-Nov. 1941. Fed Res Bul 28:45 Ja '42 [cont monthly]
Bonds and preferred stocks for increased yield. J. S. Williams. Mag of Wall St 69: 142-3+ N 15 '41
Interest rates in the managed economy. M. Palyi. J Land & Pub Util Econ 18:28-35 F '42
Moody's bond prices and bond yield averages. Published in weekly Thursday numbers of Commercial & financial chronicle
Streamlined bond yield formula. W. Y. Fulton. Barron's 21:18 D 8 '41

BONDS, Convertible
Bonds for conversion. Mag of Wall St 70: 507 Ag 22 '42

BONDS, Federal farm mortgage
FFMC calls two bond issues for redemption. Comm & Fin Chr 155:29 Ja 1 '42
Securities fully guaranteed by U.S. government, by issuing agencies, total amounts outstanding, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:47 Ja '42 [cont monthly]

BONDS, Government
Compares British, U.S. use of tap issues. Comm & Fin Chr 155:2111 Je 4 '42
Dealings in foreign government securities at N.Y. stock exchange in 1941, monthly; tabulation. Comm & Fin Chr 155:459-60 Ja 29 '42
Detail status of foreign dollar bonds. Comm & Fin Chr 155:1701 Ap 30 '42
Developments in publicly offered foreign dollar bonds since the outbreak of the war. (Bul. 120) 36p Inst. of international finance, New York '42
How foreign bonds appraise the war. F. M. Stern. Barron's 22:19 Ja 19 '42
Recommendations for new tax legislation; statement of Walter A. M. Cooper, chairman of the committee on federal taxation of the American institute of accountants, before the Senate finance committee. J Account 74:202-5 S '42
U.S. investments in foreign dollar bonds. S. E. Bielouss. For Comm W 8:8+ S 26 '42; Correction. 9:27 O 10 '42

See also
Debts, Public
Municipal bonds
State bonds
War savings stamps

Advertising

Advertising sells defense bonds; advertising department of Lindberg engineering company directed defense bond sales to employes. D. W. Johnson. il Ind Marketing 27:34+ Mr '42
Emotional war copy puts Chicago bond and stamp sales over top. C. Bedell. il Ptr Ink 200:11-14 Ag 14 '42
Enormous test mailings show U.S. how to sell bonds by letters. E. A. Buckley. Ptr Ink 197:70-2, 74 D 5 '41
Hotpoint ads urge bonds today for your bungalow tomorrow. il Sales Management 51:26 O 1 '42
How advertisers may help the war effort, economically. F. G. Rudge and G. Salomon. il Ptr Ink 198:16-17 Mr 6 '42
New York minute men got their sales kit; introductory mailing piece. il Ptr Ink 199: 16 Je 19 '42
Planned advertising does war bond job for Uncle Sam. il Ptr Ink 200:22+ S 25 '42
Promotes savings in war bonds to pave way for postwar sales; Hotpoint merchandising project. G. H. Smith. il Ptr Ink 200:15-17 S 4 '42
Propaganda is not advertising; fact-trained agency men may short-change the intangibles. Adv & Sell 35:20-1 Je '42
Retailers and newspapers made bond sales record in July. E. Johns. il Ptr Ink 200: 15+ Ag 28 '42
Sell tomorrow today! promoting post-war products now; moving war bonds. F. Bohen. Ptr Ink 200:13-14+ Jl 24 '42
Victory lobbies and windows. Banking 35:49 Jl '42
War bond campaign; what bonds and stamps will buy. Banking 34:77 Je '42

Default

Foreign debt announcements; Greece and Siam. Economist 142:366 Mr 14 '42; Same. Bankers M 144:423-4 My '42
Widespread default. Economist 142:194 F 7 '42

Marketing

Accent on bonds; payroll sales campaign. Business Week p90-1 O 17 '42
Allis-Chalmers workers subscribe at rate of $4,500,000 annually. il Steel 111:51-2 O 19 '42
Bank employees aid defense bond sale. Comm & Fin Chr 154:1158 N 22 '41
Banking's drive to sell war bonds. H. V. Odle. il Burroughs Clearing House 26:26-7+ My '42
Banks and war savings bonds. Banking 35: 89, 91-6 S '42
Banks offer special war bond savings plans. Comm & Fin Chr 155:2224 Je 11 '42
Banks participating in sale of defense savings bonds, by states, as of February 28, 1942. Fed Res Bul 28:323 Ap '42
Bond promotion. Business Week p72+ Ag 22 '42
Business sells defense bonds. il Am Business 12:12-13+ Mr '42
Canadian government pays its investment industry to sell war bonds. Comm & Fin Chr 155:2290+ Je 18 '42
Chrysler employees "go to town" in bond buying drive. il Am Business 12:20-1, 44-5 Ap '42
Dealers committee for war financing. Comm & Fin Chr 155:1624 Ap 23 '42
Defense bond deduction formulas. Nat Underw (Life ed) 46:8 Jl 31 '42
Design and installation of payroll savings plans for the purchase of war bonds. R. Bruce. N A C A Bul 24:169-92 O 15 '42
Doing war financing; Victory fund organization. Inv Banking 12:3-4 O '42
Duties of Victory fund group. P. E. Hall. Comm & Fin Chr 156:285 Jl 23 '42
Fleek named head of Cleveland Victory fund. Comm & Fin Chr 156:1626 N 5 '42
G.E. workers in more than 100 units exceed 10 per cent goal. il Steel 111:64-5 N 2 '42
Hamilton foundry wins award; receives Treasury department Minute Man blue flag; employes purchasing war bonds through payroll allotment plan. il Foundry 70:96+ Jl '42
How Canada sells its war loans. F. H. McConnell. Barron's 22:18 F 16 '42
How the life associations sell defense bonds. il East Underw 43:3-4 Mr 6 '42
Huron portland cement company wins bull's eye flag for record on payroll allotment plan. il Concrete (mill sec) 50:257 O '42
Industrial workers answer Uncle Sam's plea to buy. il Steel 111:38-41 O 12 '42
Life insurance coordinating committee; group cooperating with Treasury department in sale of F and G war bonds. East Underw 43:3+ S 25 '42
Liquor industry merchandises war bonds at points of consumer sale. il Ptr Ink 200:25, 28 Jl 3 '42
New war bond manual sent out to banks. Comm & Fin Chr 156:32 Jl 2 '42
New York minute men got their sales kit; introductory mailing piece. il Ptr Ink 199: 16 Je 19 '42
NY reserve bank further decentralizes work of issuing defense savings bonds. Comm & Fin Chr 155:568 F 5 '42
No. 1 selling job; to reach war-bond goal, Treasury has organized biggest marketing campaign in history. Business Week p40-1 My 30 '42
100% payroll plans for war bonds—are they wise? Gallup survey. Trusts & Estates 74: 150 F '42
Open drive to acquaint professional investor with investment merit of war savings bonds. Comm & Fin Chr 155:2018 My 28 '42

BONDS, Government—Marketing—*Continued*

Over-zealous war bond sales vetoed by Treasury. Comm & Fin Chr 155:2219 Je 11 '42

Paid advertising by government urged in war bond sale at ANPA convention. W. M. Dear; F. E. Tripp. Comm & Fin Chr 155:1712 Ap 30 '42

Payroll savings plan of Union dime savings bank of New York. il Banking 34:78 Je '42

Plan suggested for cooperation with insurance in bond sales; defense savings investment policies. A. S. Cartwright. Nat Underw (Life ed) 46:9 Jl 31 '42

Quota system introduced in bond sales drive. H. D. Ralph. Burroughs Clearing House 26:17-18 Je '42

Securities salesman's corner; opportunities in defense bonds. Comm & Fin Chr 155:2 Ja 1 '42

Selling the bonds. Business Week p83 My 9 '42

Slogans for your war bond drive. il Factory Management 100:64 Jl '42

Tapping payrolls. il Business Week p63-4 Ja 17 '42

To finance victory; members of the Victory fund committees in Federal reserve districts. Inv Banking 12:6-11 Je '42

To sell more bonds; New York city commercial banks plan for co-ordinating defense bond advertising. H. V. Odle. il Burroughs Clearing House 26:13-15+ Mr '42

Treasury arranges for dealers and others to qualify as defense bond issuing agents. Comm & Fin Chr 155:313+ Ja 22 '42

Treasury promoting payroll savings plan. Comm & Fin Chr 156:97 Jl 9 '42

Treasury's defense savings program aims to reach 35,000,000 income recipients. Comm & Fin Chr 154:1660 D 25 '41

Treasury's payroll plan. Bankers M 145:66 Jl '42

Two minute men are basis of war bond promotion. Ptr Ink 200:51 S 18 '42

Uncle Sam's bonds. il Business Week p72+ Ap 11 '42

U.S. enlists Wall Street's aid; securities salesmen pitching in to sell war bonds. J. P. Broderick. Barron's 22:5-6 My 18 '42

Urges issuance of larger war bonds where possible. A. Sproul. Comm & Fin Chr 156:1182 O 1 '42

Urges voluntary buying of war bonds to avoid compulsory payroll savings. R. W. Sparks. Comm & Fin Chr 155:2124 Je 4 '42

Victory club for defense bonds gains favor. H. E. Group. Bankers Mo 59:120-1 Mr '42

Victory fund program for banks. G. C. Helm. il map Burroughs Clearing House 27:16-18+ O '42

Victory is our business; what the banks are doing. il Banking 34:33-40 My '42

War bond drive built around the boys in service goes over the top; Irvington varnish and insulator company. M. C. Beckman. il Ind Marketing 27:30-1+ S '42

War bond payroll plans urged for small firms. J. Twohy. Comm & Fin Chr 156:729 Ag 27 '42

War bond sales hints. il Banking 35:60-1 Jl; 76-80 Ag '42

War bonds for farmers. W. I. Myers. Banking 35:76-7 N '42

War bonds out of current income. Banking 34:34-5 Ap '42

War savings bonds. maps Banking 35:18-20 sec 2 Jl '42

We've just begun to fight; bank cooperation. il Banking 34:78-83 F '42

Who stepped up first and fastest? men of the securities business. B. Cunningham. Inv Banking 12:5-6 O '42

Prices

Bond prices in Europe's inflation. B. Ravits. Barron's 22:18 O 5 '42

Alberta

Looks like refund for Alberta's public debt. East Underw 43:12 Ap 3 '42

Argentina

Argentine internal bond conversion a success. Comm & Fin Chr 154:1356 D 4 '41

Prospects for Argentine bonds. F. M. Stern. Barron's 22:18 F 2 '42

Bolivia

Republic of Bolivia external bonds. Comm & Fin Chr 155:1614 Ap 23 '42

Brazil

Brazilian bonds. Comm & Fin Chr 155:1776 My 7 '42

Price discrepancies in Brazilian bonds. F. M. Stern. Barron's 22:18 Je 1 '42

Buenos Aires (province)

Province of Buenos Aires bonds. F. M. Stern. Barron's 22:19 Mr 2 '42

Canada

Canada's second victory loan. Bankers M 144:242 Mr '42

Canadian government bonds; all issues considered sound investments. Comm & Fin Chr 156:356 Jl 30 '42

Canadian government pays its investment industry to sell war bonds. Comm & Fin Chr 155:2290+ Je 18 '42

Insurance companies in Canada are largest subscribers for victory loans. East Underw 43:1+ Mr 20 '42

North of the border. Banking 34:58 F '42

Third victory loan (fifth war loan) offered. For Comm W 9:13-14 O 31 '42

Chile

Economic recovery in Chile; interest payment on dollar bonds may be increased in December. F. M. Stern. Barron's 22:19-20 O 5 '42

Republic of Chile external bonds. Comm & Fin Chr 155:1426+ Ap 9 '42

Colombia

Coffee, and the future of Colombian bonds. F. M. Stern. Barron's 21:8 D 29 '41

Colombian bond progress. Comm & Fin Chr 154:1233 N 27 '41

Plans completed for Colombian bond exchange offer. Comm & Fin Chr 155:2387 Je 25 '42

Republic of Colombia; readjustment of external debt and financial assistance from the United States is of substantial interest to bondholders. Comm & Fin Chr 155:2292+ Je 18 '42

Costa Rica

Outlook for dollar bonds. Comm & Fin Chr 156:442 Ag 6 '42

Cuba

Republic of Cuba 4½s, 1977. Comm & Fin Chr 156:706+ Ag 27 '42

Denmark

Danish 6% loan interest. Comm & Fin Chr 156:99 Jl 9 '42

Denmark to defer Jan. 1 maturity of 6% loan. Comm & Fin Chr 155:35 Ja 1 '42

Payment on Danish bonds. Comm & Fin Chr 155:1535, 2048; 156:1363 Ap 16, My 28, O 15 '42

Payments on Danish dollar loans suspended. Comm & Fin Chr 155:446 Ja 29 '42

Dominican Republic

Dominican Republic gains financial independence. F. M. Stern. Barron's 22:19-20 Je 29 '42

Finland

To pay on Finnish 6s. Comm & Fin Chr 156:372 Jl 30 '42

Great Britain

Dealing in war bonds. Economist 141:511 O 25 '41

Defence bonds, new series. Economist 143:311 S 5 '42

New 3 per cent savings bonds. Economist 142:578 Ap 25 '42

BONDS, Government—Great Britain—*Continued*

Tax savings notes

British tax anticipation security. Trusts & Estates 74:133 F '42
Diversion of bank deposits. Economist 143: sup4-6 S 19 '42
Tax anticipation bonds. Economist 141:756 D 20 '41

India

New action affecting Indian government securities. For Comm W 6:18-19 Mr 28 '42

Latin America

Latin American dollar bonds as of Dec. 31, 1940. F. M. Stern. Barron's 21:3 N 24 '41
Possibilities of Latin-American bonds. W. Dyckman. Comm & Fin Chr 155:1226+ Mr 26 '42

Mexico

Recent war declaration points to closer economic collaboration with the United States and strengthens position of the external debt; tabulation of recent bond prices. Comm & Fin Chr 155:2195+ Je 11 '42
United States of Mexico. Comm & Fin Chr 155:2108 Je 4 '42

Netherlands

Dutch bond payment. Comm & Fin Chr 154:1040 N 13 '41

Peru

Partial interest payments in view on outstanding dollar bonds. Comm & Fin Chr 155:1932+ My 21 '42

Rumania

Delist Romanian bonds. Comm & Fin Chr 155: 863 F 26 '42

Sao Paulo (state)

Dollar bonds of Brazil's richest state. F. M. Stern. Barron's 22:19 My 4 '42

South America

S.A. dollar bonds offer interesting situation. Comm & Fin Chr 155:1324 Ap 2 '42

United States

Advances plan to buy term insurance and war bonds. Comm & Fin Chr 156:1437 O 22 '42
Analyzing free riding. Comm & Fin Chr 156:169+ Jl 16 '42
Bank bond policy; abstract. M. Nadler. Bankers M 145:321-2 O '42
Bank co-operation in war finance. R. G. Rodkey. Burroughs Clearing House 26:16-18+ Ag '42
Bank credit and war finance. Fed Res Bul 28:525-31 Je '42
Bank stocks; government portfolios of New York banks. Comm & Fin Chr 155:414 Ja 29 '42
Bond market anomaly; taxable Treasury issues yield more to individuals than tax-exempts. K. Brandon. Barron's 22:19 Ap 6 '42
Bond notes; all out investment in government bonds for commercial banks. Bankers M 144:228 Mr '42
Buy war bonds till it hurts. H. Morgenthau, jr. Comm & Fin Chr 156:816 S 3 '42
Calls for 3% federal bonds with sales limited to fiduciaries; abstracts. G. S. Nollen. East Underw 43:12 O 9 '42; Nat Underw (Life ed) 46:34-5 O 9 '42
Commercial banks essential to war financing. D. W. Bell. Comm & Fin Chr 156:1525+ O 29 '42
Company investments in U.S. government bonds, Dec. 31, 1930 and 1941, and June 30, 1942. Spectator (Life ed) 149:44 S '42
Course of prices of government securities; sales made at the New York stock exchange, monthly; tabulation. Comm & Fin Chr 155:461 Ja 29 '42
Critical situation in the short-term government market. Comm & Fin Chr 154:1216 N 27 '41
Decline in prices and advance in yields of U. S. Treasury notes. Nat City Bank p139-40 D '41
Defense bond sales in December reach record total; sales of three series since May 1. Comm & Fin Chr 155:229 Ja 15 '42
Defense bonds and the war. E. L. Maas. Trusts & Estates 74:79-80+ Ja '42
Defense bonds for trusts. G. F. Johnston. Trusts & Estates 73:544 N '41
Dispute increased inflationary powers would result from Reserve bank purchasing governments. Comm & Fin Chr 155:770 F 19 '42
Distribution of government securities. Fed Res Bul 28:744-6 Ag '42
Dollars for defense, and security; investing in defense savings bonds. L. Tomlinson. Barron's 21:19-20 D 22 '41
Double duty dollars; plan for buying life insurance in conjunction with war bonds. M. Von Babo. Spectator (Life ed) 149:30-2 O '42
Each bank, its fair share. E. S. Adams. il Banking 34:28 Je '42
Eccles urges Reserve banks buy governments from Treasury under War powers bill; favored by American bankers association. Comm & Fin Chr 155:769 F 19 '42
Federal Reserve and the Treasury; buying government obligations from the Treasury. Bankers M 144:188+ Mr '42
Fiduciary Counsel offers new tax plan; post-war recovery bonds. Comm & Fin Chr 155: 1944 My 21 '42
How much war financing through banks? Barron's 22:1 Je 22 '42
How purchase of U.S. defense bonds fights inflation. M. Nadler. Credit & Fin Management 44:28-9 F '42
How the war affects bank investment policy. R. G. Rodkey. Bankers M 144:495-503 Je '42
Income replacement insurance and war bonds. F. M. Hope. Spectator (Life ed) 149:4-9, 82-3 Ag '42
Inflation and the defense bond program; long-term old age defense and savings bonds. E. E. Muntz. Bankers M 144:320-3 Ap '42
Insurance executives express belief that heavy buying of government paper will not impair values. D. Wimmer. Ins Field (Life ed) 71:8-9 My 8 '42; Same. Ins Field (Fire ed) 71:8-9 Jl 2 '42
Insurers buy big part of "tap" issue. Nat Underw (Life ed) 46:1 Ag 7 '42
Investment policy for commercial banks. K. L. Trefftzs. Bankers M 145:32, 34-5 Jl '42
Joyriders wary; Treasury's new issue oversubscribed only three times. Business Week p70-1 F 21 '42
Legal status of the beneficiary of United States war savings bond. Banking 34:41 Je '42
Letter from the Secretary of the Treasury on goals and plans for selling bonds. Bankers Mo 59:264-5 Je '42
Life companies take half billion of new Treasury "tap" issue. East Underw 43:1+ My 8 '42
Life underwriter mobilized. G. F. Johnston. Spectator (Life ed) 148:6-9 Ja 29 '42; Abstracts. East Underw 43:3+ Ja 30 '42; Nat Underw (Life ed) 46:1 Ja 23 '42
Local governments increase investments in defense bonds. Comm & Fin Chr 154:1320 D 4 '41
Maintaining strength; C. J. Devine & Co. survey. Comm & Fin Chr 155:1027 Mr 12 '42
Market transactions in governments, monthly, 1940 and 1941. Comm & Fin Chr 155: 340 Ja 22 '42
Maturities of public marketable securities of U.S. government, direct and fully guaranteed, November 30, 1941. Fed Res Bul 28:48 Ja '42 [cont monthly]
Money and security markets meet the shock of declared war. Nat City Bank p5-7 Ja '42
More new money raised by Treasury in Oct. than by any government in comparable period. Comm & Fin Chr 156:1724 N 12 '42

BONDS, Government—United States—*Continued*

Nature and size of the war financing program. Fed Res Bul 28:765-7 Ag '42

New emphasis placed on Treasury bills. Burroughs Clearing House 26:20-1 Ag '42

New forces affecting money, bank loans, investments. H. M. Tremaine. Mag of Wall St 70:586-7+ S 19 '42

New government bond-sale system likely. E. Blair. Barron's 22:4 F 16 '42

NYSE changes interest rate rules on government bonds. Comm & Fin Chr 154:1120 N 20 '41

NYSE sees war bonds arousing interest in investing in general securities. Comm & Fin Chr 155:1609+ Ap 23 '42

Our reporter on governments. Comm & Fin Chr 155:929+ Mr 5 '42 [cont weekly]

Ownership of United States government securities, direct and fully guaranteed, June and Dec. 1936-1941. Fed Res Bul 28:48 Ja '42 [cont monthly]

Program of government financing for May and June embraces three kinds of issues; Reserve banks and the bill market. Nat City Bank p59 My '42

Purchase limit raised on F and G war bonds. Comm & Fin Chr 155:2032 My 28 '42

Purchase of government obligations. Fed Res Bul 28:301-2 Ap '42

Recent rulings affecting defense savings bonds. Trusts & Estates 73:543 N '41

Recommends changes in defense bonds. T. Graham. Comm & Fin Chr 155:1227 Mr 26 '42

Reporter on governments; banks' investment problems. Comm & Fin Chr 155:1609+ Ap 23 '42

Reporter on governments; refunding; significance to holders of U.S. obligations. Comm & Fin Chr 155:201+ Ja 15 '42

Reporter on governments; tap issue. Comm & Fin Chr 155:1761+, 1849+ My 7-14 '42

Reporter on governments; Treasury's two new issues of 2½s and 2s; interest rates. Comm & Fin Chr 154:1456 D 11 '41

Reserve banks buy government securities. Barron's 22:19 Jl 13 '42

Role of life companies in financing the war. H. C. Sauvain. East Underw 43:82+ pt 2 O 9 '42

Safekeeping war bonds. il Banking 35:75-6 N '42 (to be cont)

Sales of United States savings bonds, monthly May 1941-April 1942. Fed Res Bul 28:579 Je '42 [cont monthly]

Savings-loan associations war bond buying; aids war financing; controls inflation tendency. F. S. Cannon. Comm & Fin Chr 156:1435 O 22 '42

Says Treasury should develop new type of government bond eliminating demand redemption. M. Nadler. Comm & Fin Chr 155:1048 Mr 12 '42

Special bond issues to meet trustee need proposed. H. H. Jackson. East Underw 43:8 Je 5 '42

Status of bonds as we enter 1942. J. S. Williams. Mag of Wall St 69:370-1+ Ja 10 '42

Subscription and allotment figures on Treasury bond and note offering; 2% bonds of 1950-52 and 1½% notes of series B-1946. Comm & Fin Chr 156:1551 O 29 '42

Too much defense bonds? M. Nadler. Trusts & Estates 74:233 Mr '42

Treasury amendment on war bond reissue. Comm & Fin Chr 155:2045 My 28 '42

Treasury bills and certificates as outlets for idle funds. Fed Res Bul 28:631-2 Jl '42

Treasury financing in December and the calendar year 1941. Comm & Fin Chr 155:246 Ja 15 '42

Treasury financing includes tap issue experiment. H. D. Ralph. Burroughs Clearing House 26:19 Je '42

Treasury frowns on war bonds, stamps as prizes. Comm & Fin Chr 155:1956 My 21 '42

Treasury offering of certificates oversubscribed. Comm & Fin Chr 155:2398 Je 25 '42

Treasury offers for cash $1,500,000,000 of ½% certificates. Comm & Fin Chr 155:1444 Ap 9 '42

Treasury offers for cash $1,500,000,000 of 2¼% bonds of 1952-55. Comm & Fin Chr 155:764 F 19 '42

Treasury offers 1½% notes of 1946 to holders of maturing HOLC and RFC issues. Comm & Fin Chr 155:2048 My 28 '42

Treasury offers $1,250,000,000 of 2s due 1951 and unspecified amount of 2½s due 1967. Comm & Fin Chr 155:1792 My 7 '42

Treasury offers 2½s so-called "tap" issue. Comm & Fin Chr 156:460 Ag 6 '42

Treasury offers 2% bonds of 1949-51 to holders of four maturing issues. Comm & Fin Chr 155:231, 486 Ja 15, 29 '42

Treasury stresses need of voluntary savings. H. N. Graves. Comm & Fin Chr 155:1871 My 14 '42

Treasury to reduce weekly bill offerings. Comm & Fin Chr 154:1314 D 4 '41

Treasury's financing program unfolds. H. D. Ralph. Burroughs Clearing House 26:19-20 S '42

Unique investment merit of series F and G war bonds. A. W. May. Mag of Wall St 70:327+ Jl 11 '42

U. S. bond investments of life insurance companies, June 30, 1942. Nat Underw (Life ed) 46:2 Jl 17 '42

United States government securities on the New York stock exchange. Published in weekly Monday numbers of Commercial & financial chronicle

U.S. Treasury offers $1,500,000,000 of 2½% and 2% bonds in Dec. 15 financing. Comm & Fin Chr 154:1425+ D 11 '41

Urges Reserve banks to cut idle excess reserves and invest in government bonds. A. Sproul. Comm & Fin Chr 156:1721 N 12 '42

Valuation of savings bonds in common trust funds. Trusts & Estates 74:77 Ja '42

Valuation of Series G bonds in common funds. G. Mueller. Trusts & Estates 75:163-4 Ag '42

Voluntary bond purchases will not meet government needs after this year. E. Schram. Comm & Fin Chr 156:539 Ag 13 '42

Wage increase in war bonds. Trusts & Estates 74:544 Je '42

War bonds, a solution now, a problem later. H. Spero and J. A. Leavitt. Bankers M 144:487-90 Je '42; Abstract. Trusts & Estates 75:128-9 Ag '42

War bonds in savings program. Barron's 22:19 Jl 6 '42

War bonds in seven wars. il Banking 35:36-7 Ag '42

War finance; the place of banks; with chart showing ownership of government obligations, June 1919, 1932, 1938, and Dec. 1941. Banking 35:8-11 sec 2 Jl '42

Wartime investment policies. E. S. Adams. Banking 34:26-7 F '42

Wartime investment report to directors. E. S. Adams. Banking 35:24-5+ Ag '42

Weight of billion-dollar financings bear heavily on government market. Comm & Fin Chr 154:1328 D 4 '41

When you buy a war savings bond; how to prepare for possible problems that may arise from death, debt and taxes. Barron's 22:3+ S 7 '42

Yields on short-term governments moving up. Comm & Fin Chr 154:1105+ N 20 '41

See also

Bonds, Government—
Marketing

Deferred payment plan

Deferred payment war bonds. Trusts & Estates 75:222 S '42

Tax savings notes

Accounting for United States Treasury tax notes; reporting in balance-sheet of purchaser. J Account 73:160-1 F '42

New Treasury tax savings notes. Burroughs Clearing House 27:20 O '42

Opportunity in tax anticipation notes. Trusts & Estates 74:85 Ja '42

Saving for the big taxes; revised and new series of Tax savings notes. Banking 35:26 O '42

Savings tax notes. Bankers M 145:322 O '42

BONDS, Government—United States—Tax savings notes—*Continued*
Tax anticipation notes and decedent's estate. Banking 34:41 F '42
Tax note transferral. Comm & Fin Chr 154:1232 N 27 '41
Tax savings notes of new series offered. Comm & Fin Chr 156:992 S 17 '42
To offer another issue of tax savings notes. Comm & Fin Chr 155:142 Ja 8 '42

Uruguay

American trade helps Uruguay bonds. F. M. Stern. Barron's 22:19 Mr 16 '42

BONDS, Government guaranteed
Securities fully guaranteed by U.S. government, by issuing agencies, total amounts outstanding, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:47 Ja '42 [cont monthly]

BONDS, Municipal. See Municipal bonds

BONDS, Real estate
Local housing authority bonds. Comm & Fin Chr 154:1018 N 13 '41
Real estate bond price averages show advance. Comm & Fin Chr 156:975 S 17 '42
Real estate bonds; a neglected security! Comm & Fin Chr 156:876 S 10 '42

Prices

Outlook for real estate securities. J. O. Newlon, jr. Barron's 22:18 Ja 26 '42

BONDS, Revenue
Mote, the beam, and the revenue bond. J. Brooks, pseud. [J. Mellett]. Pub Util 30:216-20 Ag 13 '42
Public revenue bonds. C. C. Seward. Comm & Fin Chr 155:121 Ja 8 '42
Revenue bond security analyzed. Comm & Fin Chr 155:416 Ja 29 '42

BONDS, Surety. See Insurance, Surety and fidelity—Contract bonds

BONE black
Surface available to nitrogen on bone black and other carbonaceous adsorbents. V. R. Deitz and L. F. Gleysteen. diags J Research Nat Bur Stand 29:191-225 S '42

Analysis

Determination of carbon and hydrogen in bone black and other chars. V. R. Deitz and L. F. Gleysteen. bibliog diags J Research Nat Bur Stand 28:795-805 Je '42

BONE-conducted sound. See Hearing

BONES
Bones of men and apes; abstract. F. Weidenreich. Science 95:sup10 My 1 '42
Inorganic constitution of bone. S. B. Hendricks and W. L. Hill. diags Science 96:255-7 S 11 '42
Roentgen diagnosis of the extremities and spine. A. B. Ferguson. 462p $12 Harper '41

Diseases

Occupational diseases of bones and joints. L. Teleky. bibliog il Ind Med 11:164-9 Ap '42
Treatment of renal osteodystrophy with dihydrotachysterol (A.T.10) and iron. S. H. Liu and H. I. Chu. Science 95:388-9 Ap 10 '42

BONEY, Daniel Clinton, 1895-1942
Sketch. por East Underw 43:17 S 11 '42; Nat Underw (Life ed) 46:4 S 11 '42; Nat Underw 46:5 S 10 '42; Weekly Underw 147:547 S 12 '42

BONNEVILLE dam. See Columbia river—Bonneville dam

BONNEVILLE power administration. See Columbia river—Power utilization

BONNOT company
Bonnot celebrates golden anniversary. Brick & Clay Rec 99:42 D '41

BONUS system
Bonus payments as wages under the Wage and hour law. Banking 34:41 Ja '42
Incentives as applied to service departments. Mech Handling 29:38-9 F '42
Lincoln defends bonus system; tells how cooperative effort reduced costs; testimony before House naval affairs committee. il Steel 110:36 Je 1 '42
Production bonus in British building and civil engineering. Monthly Labor R 55:362-3 Ag '42

See also
Salesmen—Bonuses
Wage payment plans

BONUS system (for executives)
Corporate executives' compensation; legal and business aspects of salary and bonus plans, stock options, pensions, indemnity agreements, and related matters. G. T. Washington. 519p $7 Ronald press '42
Stockholders' forum; management bonus systems are always legal, but sometimes the amounts paid are not. Mag of Wall St 70:294-6 Je 27 '42

Accounting

Calculation of bonuses based on earnings after deduction of state and federal taxes. A. L. Norris. J Account 73:164-7 F '42

BONUSES, Cost of living. See Wage payment plans

BOOK collecting
Bookman's holiday. V. Starrett. 312p $3 Random house, New York '42

BOOK industry and trade
Bookmaking and kindred amenities. E. S. Miers and R. Ellis, eds. 147p $3.50 Rutgers univ. press, New Brunswick, N.J. '42
Literature crashes mass market; Pocket-BOOKS, inc. has used over-the-counter merchandising methods. il Ptr Ink 200:59-60 Jl 17 '42
Little-book battle; de Graff cheap reprints. Business Week p28 Ja 10 '42
100 years of books. F. Romer. 70p Davey co, Jersey City, N.J. '42
Publishers sweat to meet demand of war workers for technical books. il Sales Management 50:48+ F 1 '42

See also
Booksellers and bookselling
Paper industry and trade
Printing trade
Publishing

Directories

Register of artists, engravers, booksellers, bookbinders, printers and publishers in New York city, 1633-1820. G. L. McKay, comp. 78p pa $1.25 New York public lib. New York '42

Great Britain

Book case. Economist 142:97-8 Ja 24 '42

BOOK prices
American book-prices current; index, 1933-1940. E. Lazare, ed. ltd ed 765p $22.50 R. R. Bowker co, New York '41
American books and their prices. W. Targ. v 1 333p $6 Black Archer press, 335 S. Dearborn st, Chicago '41

BOOK rarities
Private libraries and dealers have Kingsley's great library. East Underw 43:5 My 8 '42

See also
Strawberry Hill press

Facsimiles

Modern facsimile reproductions of rare technical publications; case of Rafinesque's publications. E. D. Merrill. Science 96:180-1 Ag 21 '42

BOOK reviews
Book review digest; thirty-seventh annual cumulation, March 1941 to February 1942 inclusive, with cumulated index, 1937-1941. 1551p Wilson, H.W. '42

See also
Newspapers—Book reviews

BOOK selection
Choice of editions. P. G. Carlson. 69p pa 75c Am. lib. assn, 520 N. Michigan av, Chicago '42

BOOKBINDERIES

Employees

Earnings and hours in book and job printing, January 1942; hourly earnings. E. B. Harris and W. C. Linn. Monthly Labor R 55:785-801 O '42

BOOKBINDERS. See Bookbinderies—Employees

BOOKBINDING

Flexible glues for bookbinding. M. S. Kantrowitz, E. W. Spencer and F. R. Blaylock. (Tech. bul. 24) 18p U.S. Govt. ptg. office, Division of tests and technical control, Washington; pa 10c Supt. of doc. '41

Graphic bookbinding. L. J. Haas. 12pls pa 50c Louis J. Haas, 3 Gedney terrace, White Plains, N.Y. '42

BOOKKEEPING

Business record-keeping; advanced course. F. H. Elwell, E. A. Zelliot and H. I. Good. 394p $1.60 Ginn '42

Job records, the basis of bookkeeping. il Dom Eng 160:46+ Jl '42

Record keeping for everyone. W. L. Moore, H. E. Wheland and C. M. File. 423p $1.60 South-western pub. co. '41

War-time book-keeping. S. H. Withey. Electrician 129:441-2 O 23 '42

See also

Accounting
Auditing
Cost accounting
Vouchers

BOOKLETS, Advertising. See Advertisements—Books and booklets

BOOKS

About books, a gathering of essays. 102p $2.50 Book arts club, Univ. of California, Berkeley '41

Bookmaking and kindred amenities. E. S. Miers and R. Ellis, eds. 147p $3.50 Rutgers univ. press, New Brunswick, N.J. '42

See also

Bibliography
Cataloging
Classification
Libraries
Printing
Publishing
Reprints—Bibliography

Valuation

See also

Libraries—Valuation

BOOKS and reading

Give yourself background. F. F. Bond. rev & enl ed 277p $2 McGraw-Hill '42

Speaking of books. L. W. Arps. 147p Denver public schools, School district no. 1, Denver, Colo. '41

See also

Bibliography

BOOKSELLERS and bookselling

Necessary stock items for three important bookstore departments; Latin America, military and technical books. Publishers' Weekly 141:1644-50 My 2 '42

New home library; Woolworth books achieve department status. Business Week p55-6 S 26 '42

BOOSTERS

Booster improves 44-kv. regulation. diags Elec W 117:1848 My 30 '42

Capacitor-booster costs less than $100. il diag Elec W 117:332+ Ja 24 '42

BOOTS pure drug company

Annual general meeting, Beeston. Economist 143:121-2 Jl 25 '42

BOOTT, Mrs Martha H.

Portrait. Weekly Underw 147:372 Ag 22 '42

BORANE. See Boron hydrides

BORAX

Borax and boric acid in salt glazing. H. G. Schurecht and K. T. Wood. diag Brick & Clay Rec 100:36-8 My '42

Potash and borax, 1941. R. W. Mumford. il Min Cong J 28:54-6 F '42

Stope filling in a borax mine. C. G. Grim. il Min Cong J 28:29-31 My '42

Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

Water softening claims not justified. Consumers' Research Bul 9:18-19 Ja '42

BORAX consolidated, limited

Annual general meeting, London. Economist 142:408 Mr 21 '42

BORDEAUX mixture

Substitutes for copper and zinc in fungicidal sprays. J. W. Roberts. il Ind & Eng Chem 34:497-8 Ap '42

BORDEN company

Annual report, 1941. Comm & Fin Chr 155:1112-14, 1117 Mr 16 '42

Borden's 1941 earnings show gain. Barron's 21:4 D 22 '41

Companies with long dividend records. J. C. Clifford. il Mag of Wall St 71:19 O 17 '42

BORG-WARNER corporation

Borg-Warner has notable report. H. Lawrence. Barron's 22:20 Ag 17 '42

Borg-Warner's strategic position. B. M. Fullerton. Mag of Wall St 69:656-7+ Mr 21 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1503 Ap 13 '42

Favored stocks from $10 to $25. Mag of Wall St Manual p12 Ap '42

Investment audit. Barron's 22:20 Ap 27 '42

Outstanding stocks for income and profit. Mag of Wall St 70:442 Ag 8 '42

Stocks cheap under highest taxes. P. Dobbs. Mag of Wall St 70:241 Je 13 '42

Thumbnail stock appraisal. Mag of Wall St 69:322 D 27 '41

BORIC acid

Borax and boric acid in salt glazing. H. G. Schurecht and K. T. Wood. diag Brick & Clay Rec 100:36-8 My '42

Boric-acid fuse limits fault current. diag Elec W 117:674 F 21 '42

BORING bars

Boring bar clamped against flat side. D. Raeburn. diag Am Mach 86:712 Jl 9 '42

Boring bars, pilots, special tools. J. G. Jergens. diags Am Mach 86:280-1 Ap 2 '42

Holder for small boring bars. M. H. Ball. diags Am Mach 86:836 Ag 6 '42

Holder handles heavy-duty boring. W. A. Rowell. diags Am Mach 86:445 My 14 '42

Two-tool boring bar. R. H. Weller. diag Am Mach 86:1232 O 29 '42

BORNEO

Black Borneo. C. C. Miller. 278p $2.75 Modern age books, New York '42

BOROALUMINATE

Electric furnace boroaluminate. H. N. Baumann, jr. and C. H. Moore, jr. bibliog il Am Cer Soc J 25:391-4 O 1 '42

BOROFLUORIDES. See Fluoborides

BORON

Boron, a new vitamin for steel and cast iron. N. F. Tisdale. il Metal Prog 41:330-1 Mr '42

Potash and borax, 1941. R. W. Mumford. il Min Cong J 28:54-6 F '42

Progress in the preparation and determination of the properties of boron. A. W. Laubengayer, A. E. Newkirk and R. L. Brandaur. bibliog J Chem Educ 19:382-5 Ag '42

Progress reports, Metallurgical division; Electrometallurgical section. R. S. Dean. U S Bur Mines Rep of Invest 3600:44-7 '41; Abstract. Metal Prog 41:718 My '42

Analysis

Spectrochemical method for the determination of boron in synthetic mixtures of soil materials. R. Q. Parks. bibliog Opt Soc Am J 32:233-7 Ap '42

BORON bromide

Cleavage of ethers with boron bromide; some common ethers. F. L. Benton and T. E. Dillon. Am Chem Soc J 64:1128-9 My '42

BORON carbide

Kut-Kost, a new metal-cutting alloy. Mach 49:159 O '42

BORON chloride

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Organoboron-nitrogen compounds; the reaction of boron chloride with *p*-toluidine. C. R. Kinney and M. J. Kolbezen. Am Chem Soc J 64:1584-5 Jl '42

BORON compounds

Organoboron-nitrogen compounds; the reaction of boron chloride with *p*-toluidine. C. R. Kinney and M. J. Kolbezen. Am Chem Soc J 64:1584-5 Jl '42

Progress in the preparation and determination of the properties of boron. A. W. Laubengayer, A. E. Newkirk and R. L. Brandaur. bibliog J Chem Educ 19:382-5 Ag '42

Studies in stereochemistry; steric strains as a factor in the relative stability of some coördination compounds of boron. H. C. Brown, H. I. Schlesinger and S. Z. Cardon. bibliog il Am Chem Soc J 64:325-9 F '42

BORON fluoride

Systems with boron trifluoride. H. S. Booth and D. R. Martin. bibliog diags Am Chem Soc J 64:2198-205 S '42

BORON hydrides

Infra-red and Raman spectra of polyatomic molecules; diborane. F. Stitt. bibliog J Chem Phys 9:780-5 N '41

Recent developments in the chemistry of the boron hydrides. H. I. Schlesinger and A. B. Burg. Chem R 31:1-41 bibliog(64 references, p39-41) Ag '42

Structures and physical properties of the hydrides of boron and of their derivatives. S. H. Bauer. diags Chem R 31:43-75 bibliog(71 references, p74-5) Ag '42

BORON oxides

Development of leadless glazes containing fluorides. P. M. Corbett and N. J. Kreidl. bibliog Cer Ind 39:64, 66, 68 S '42

Elasticity of glass at high temperatures, and the vitreous basaltic substratum. F. Birch and D. Bancroft. bibliog Am J Sci 240:457-90 Jl '42

Influence of boron oxide on expansibility. Glass Ind 23:107 Mr '42

Structure of sodium borate glasses as affected by temperature. A. E. Badger, H. C. Johnson and J. O. Kraehenbuehl. bibliog il diag Am Cer Soc J 25:395-401 O 1 '42

Thermal properties of crystalline and glassy boron trioxide. J. C. Southard. Am Chem Soc J 63:3147-50 N '41

Two lower oxides of boron. R. C. Ray and P. C. Sinha. Chem Soc J p742-4 N '41

BOSE-EINSTEIN statistics

Flow of energy in thermal transpiration for a Bose-Einstein and a Fermi-Dirac gas. D. V. Gogate and D. S. Kothari. Phys R 61:349-58 Mr 1 '42

BOSMINA, Fossil

Fossil species of bosmina. T. S. Austin. bibliog pl Am J Sci 240:325-31 My '42

BOSTON

Antiquities

Boylston Street fishweir; a study of the archaeology, biology, and geology of a site on Boylston street in the Back Bay district. F. Johnson and others. 212p bibliog(p209-12) pa $2 Robert S. Peabody foundation for archaeology, Phillips academy, Andover, Mass. '42

Charities

Cabots speak to the people; Boston shows the way to make charity flourish in wartime. il Fortune 25:88-91, 118+ My '42

Fire, 1872

Boston fire taught costly lesson. R. W. Boyd. il Weekly Underw 147:602, 604+ S 19 '42

Boston lacked serious fire prevention. J. M. Bugbee. il Weekly Underw 147:610, 612+ S 19 '42

1872 Boston fire stunned nation. R. Rhodes. il Weekly Underw 147:598-600+ S 19 '42

Foreign population

Boston's immigrants, 1790-1865; a study in acculturation. O. Handlin. 287p bibliog(p251-68) $3.25 Harvard univ. press '41

Harbor

Boston looks seaward; the story of the port, 1630-1940. 316p $2.75 Bruce Humphries, 30 Winchester st, Boston '41

Sewerage

Utilize concrete pipe in heavy construction operations. il Concrete 50:5 Je '42

Water supply

Flow characteristics of pipe lines, with special reference to the new pressure aqueduct of the metropolitan water district. W. F. Covil. Boston Soc C E J 29:22-37 Ja '42

Hydraulics of the new pressure aqueduct of the metropolitan water district. K. R. Kennison. map Boston Soc C E J 29:1-21 Ja '42

Water charges to municipalities in the Boston metropolitan area by the Metropolitan district commission. K. R. Kennison. N E Water Works Assn J 55:522-49; Discussion. 550-60 D '41

BOSTON and Maine railroad

Annual report. Comm & Fin Chr 155:1403-4 Ap 6 '42

BOSTON and Maine transportation company

Truck permits go to B. & M. contractors. Ry Age 113:670 O 24 '42

BOSTON Edison company

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1595 Ap 20 '42

Radio station WEEI sold. Comm & Fin Chr 156:777 Ag 31 '42

BOSTON elevated railway

Income statement, 1940 and 1941. Comm & Fin Chr 155:1595 Ap 20 '42

BOSTON society of civil engineers

Annual reports. Boston Soc C E J 29:136-61 Ap '42

BOSTON stock exchange

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

BOSTWICK, Arthur Elmore, 1861-1942

Sketch. Special Lib 33:101 Mr '42

BOSWELLIC acid

Constitution of β-boswellic acid. J. C. E. Simpson and G. A. R. Kon. Chem Soc J p793-4 N '41

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

BOTANICAL chemistry

Advances in botany. T. G. Phillips. bibliog(62 references) il Chem & Eng N 20:170-5 F 10 '42

Antioxidants and autoxidation of fats; the isolation of new antioxidants from vegetable fats. C. Golumbic. bibliog Am Chem Soc J 64:2337-40 O '42

Chemistry of the lignan group of natural products. R. D. Haworth. Chem Soc J p448-56 Jl '42

Origin and transformation of carbohydrates in plants. H. A. Spoehr. J Chem Educ 19:20-3 Ja '42

Some aspects of algal chemistry. I. M. Heilbron. Chem Soc J p79-89 F '42; Abstract. Soc Dyers & Col J 58:97-8 My '42

See also

Bacteria
Cellulose
Chlorophyl
Gums and resins
Hormones, Plant
Photosynthesis
Plant cells and tissues
Plants—Chemical analysis

BOTANICAL gardens

See also

Arnold arboretum

BOTANICAL literature

Modern facsimile reproductions of rare technical publications; case of Rafinesque's publications. E. D. Merrill. Science 96:180-1 Ag 21 '42

BOTANICAL research

Advances in botany. T. G. Phillips. bibliog(62 references) il Chem & Eng N 20:170-5 F 10 '42

Science twenty-five years ago; botany as a national asset; printed in Science, March 9, 1917. J. M. Coulter. Science 95:278-9 Mr 13 '42

BOTANICAL society of America

Third annual summer meeting of the Southeastern section. K. W. Hunt. Science 96: 115 Jl 31 '42

BOTANISTS

Golden age of botany. E. N. Transeau. Science 95:53-8 Ja 16 '42

See also

Wiegand, Karl McKay

BOTANY

Advances in botany. T. G. Phillips. bibliog(62 references) il Chem & Eng N 20:170-5 F 10 '42

Introduction to the plant sciences. W. C. Darrah. 332p $2.75 Wiley '42

See also

Bacteriology
Botanical chemistry
Dyes and dyeing—Natural dyes
Fungi
Galls (botany)
Paleobotany
Photosynthesis
Plant cells and tissues
Plant growth
Rubber plants and planting
Trees
Weeds

Ecology

See also

Timberline ecology

Geographical distribution

Continental drift and plant distribution. D. H. Campbell. Science 95:69-70 Ja 16 '42

Physiology

Regeneration, development and genotype. C. E. Allen. Science 95:365-9 Ap 10 '42

Vegetable dynamicks and plant tissue cultures. P. R. White. Science 95:520-2 My 22 '42

Study and teaching

Golden age of botany. E. N. Transeau. Science 95:53-8 Ja 16 '42

Terminology

Stomates? stigmates, stromates! P. R. White. Science 95:171 F 13 '42; Discussion. H. W. Rickett. 95:275 Mr 13 '42

Argentina

Studies on Argentine plants; alkaloids from lycopodium saururus. V. Deulofeu and J. De Langhe. bibliog Am Chem Soc J 64: 968-9 Ap '42

Studies on Argentine plants; identification and characterization of some alkaloids in fagara coco (Gill) Engl. V. Deulofeu, R. Labriola and J. De Langhe. Am Chem Soc J 64:2326-8 O '42

Cuba

Flora of Cuba. Science 95:597 Je 12 '42

Guatemala

Fourth expedition to Guatemala of Field museum. Science 95:115 Ja 30 '42

Midway island

Midway plants; two rare varieties found on desolate islands. Sci Am 167:170 O '42

Vegetation on Midway. Science 96:sup11 Jl 24 '42

BOTANY, Economic

Chemurgic council discusses use of farm products in war; plants recommended for cultivation in the U.S. P. J. Kolachov. Oil Paint & Drug Rep 141:3+ Mr 30 '42

Drug and other special plant possibilities of the Americas. D. M. Crooks. Oil Paint & Drug Rep 142:7+ S 7 '42

Ecological crop geography. K. H. W. Klages. 615p $4.50 Macmillan '42

Fats and oils: there's time to do a job; intelligent rationing, planned conservation can head off grave scarcities. il Fortune 25:68-71+ Ap '42

Fiber, drug and other plant products grown in the United States. Science 95:sup8 Ja 23 '42

Oil on the bush; providing industry with import substitutes. Business Week p30-2 Ap 4 '42

Search for new insecticides. H. L. Haller. bibliog(61 references) il J Chem Educ 19: 315-21 Jl '42

See also

Cotton
Dyes and dyeing—Natural dyes
Flax
Fungi
Grasses
Hemp
Herbs
Plants—Rubber content
Rubber plants and planting
Textile fibers
Weeds

South America

South American colors. A. E. Karr. Textile Col 64:1-6, 55-9 bibliog(p58-9) Ja-F '42

Southwestern states

Economic importance of the legume plants of the Southwest and Mexico. C. D. Mell. Textile Col 64:332-3 Jl '42

BOTANY, Medical

Australia's stimulated industry. For Comm W 9:27 O 24 '42

Drug and other special plant possibilities of the Americas. D. M. Crooks. Oil Paint & Drug Rep 142:7, 55 Ag 31; 7+ S 7 '42

Drug plant cultivation backed by agricultural dept. Oil Paint & Drug Rep 141:3+ Je 22 '42

Harvesting machine for drug crops. il Oil Paint & Drug Rep 141:54 Mr 16 '42

Maintaining supplies of botanicals. T. Lewis. Oil Paint & Drug Rep 140:7+ D 15 '41

Pharmaceutical supplies conditions; growing botanicals. H. Craig. Oil Paint & Drug Rep 141:71A-71B Je 22 '42

Shortage of drug and related plant supplies; abstract. W. J. Bonisteel. Science 95:sup10 Ap 17 '42

BOTTLE caps and seals

Behaviour of some metal foils in contact with milk. R. Kerr. Soc Chem Ind J 61: 128-32 Ag '42

Bottle cap blues; WPB order curtails use of blackplate for beer and soft drinks. Business Week p50+ Je 6 '42

Bottle cap bust; scrap tin bubble breaks. Business Week p42 Ag 1 '42

Bottlers unbottled. Business Week p56 S 26 '42

Closures and the bottleneck. il Mod Packaging 16:37-52 S '42

Glass manufacturer uses paper to solve closure problem. il Cer Ind 38:44 Je '42

New plastic product may solve container closure problem. Cer Ind 39:28 Jl '42

BOTTLE factories

From cotton field to bottle plant in 95 days; Knox glass bottle company's new factory in Palestine, Texas. il Glass Ind 23:91-3 Mr '42

Equipment

New burners, batch feeders increase bottle plant melting capacity. il Cer Ind 39:32-4 Ag '42

BOTTLED goods

Award winners, 11th annual all-America package competition. il Mod Packaging 15: 150-7+ Ap '42

Tamperproof bottles taking place of cans for lube oil. J. P. O'Donnell. il Oil & Gas J 41:76 Je 25 '42

Toiletries the way men like them; Nelson, Baker and co. il Mod Packaging 15:34-5 Ja '42

BOTTLED goods—*Continued*
What the beer can restriction may mean to bottle production. Cer Ind 39:29 Jl '42
See also
Beer
Beverages

BOTTLES
All-America package competition; award to W. A. Sheaffer pen co.; Chemopure Skrip bottle. il Mod Packaging 15:186-7+ Ap '42
Decrepitude of old bottles; aging, weathering, and solarization compared with use and abuse. L. G. Ghering and F. W. Preston. Am Cer Soc J 25:53-5 Ja 15 '42
Deterioration of old whiskey bottles. A. Silverman and L. G. Ghering. il Glass Ind 23:339 S '42
Effect of applied ceramic color on the strength of bottles. J. E. Ablard. Cer Ind 37:40+ D '41
Glass strains produced by fired-on colors; abstract. J. E. Ablard. Cer Ind 38:41 My '42
Sixty-six green bottles; new packages of McKesson and Robbins. il Mod Packaging 15:58-9 F '42
Two new wine bottles demonstrate trend of packaging in war time. il Sales Management 50:30, 32 Ap 1 '42
See also
Beer containers
Ink bottles
Milk bottles

Manufacture

Application of electricity to the annealing of glass bottles and containers. E. S. Morris. diags Inst E E J 89 pt 2:355-66 Ag '42; Discussion. Electrician 128:171-2 F 27 '42; Inst E E J 89 pt 2:366-8 Ag '42
New burners, batch feeders increase bottle plant melting capacity. il Cer Ind 39:32-4 Ag '42
60-year history of glass blowing. J. Morrison. il Cer Ind 39:58, 60, 62, 64 O; 48, 50+ D '42
Strength of bottles as affected by limitations of manufacturing processes. F. W. Preston. diags Am Cer Soc J 25:427-34 N 1 '42

Storage

Effect of storage conditions on weathering of commercial glass containers. J. S. Owens and E. C. Emanuel. bibliog il Am Cer Soc J 25:359-71 S 1 '42

Testing

Resistance of bottles to abuse. F. W. Preston. il diags Glass Ind 23:217-21+ Je '42
Studies correlating bottling line with pressure test breakage. A. Herman and H. M. Kindsvater. il Am Cer Soc J 25:434-8 N 1 '42; Abstract. Cer Ind 38:87 My '42
Water hammer breakage in glass containers. T. C. Baker. il diag Glass Ind 22:521-4, 534-6 D '41

BOTTLING
Conditions encountered in filling pressure ware. J. M. Sharf. Am Cer Soc J 25:228-30 My 1 '42; Abstract. Glass Ind 22:208+ My '41
Cottoning machines at Abbott laboratories; automatic machines for placing cotton in bottles of tablets and capsules. il Mod Packaging 16:76-7 N '42
Passing the bottle; laminated plastic edging on dials and guides of bottling equipment reduces breakage, scarring and noise. il Mod Plastics 19:42+ Mr '42; Same. Mod Packaging 15:94+ My '42
Processing equipment for whisky filtration. R. O. Schmitt, P. J. Kolachov and H. F. Willkie. flow diag il Ind & Eng Chem 34:1135-8 O '42
Studies correlating bottling line with pressure test breakage. A. Herman and H. M. Kindsvater. il Am Cer Soc J 25:434-8 N 1 '42; Abstract. Cer Ind 38:87 My '42
Traveling laboratory control of bottlers' operation; Coca-Cola company. B. Wells. il Am Water Works Assn J 34:1035-41 Jl '42; Same. Water & Sewage 80:23-4+ Jl '42
See also
Beverages

BOTTLING machines
Cottoning machines at Abbott laboratories: automatic machines for placing cotton in bottles of tablets and capsules. il Mod Packaging 16:76-7 N '42
Latching system provides method of friction-load reduction in rotary bottle-filling machine. il Machine Design 14:61 Je '42

BOTTLING plants
Acme bottling house, San Francisco. il plans Arch Rec 91:46 Mr '42
Food official reviews wartime problems of bottlers; objectionable character of saccharin and of copper contamination. H. C. Lythgoe. il Food Ind 14:47-8 Je '42

Layout

Mile long beer line. il plans Mod Packaging 16:81-6+ S '42

Power

Bottling industry acts in self defense. H. J. Barbour. il Diesel Power 20:813-14 O '42

BOTULISM
Concerning the nature of type C botulinus toxin fractions. D. R. Coburn. Science 95:389-90 Ap 10 '42

BOUGHTON, Van Tuyl, 1888-
Sketch. por Civil Eng 11:736 D '41

BOULDERS
Large glacial erratics. R. L. Rutherford. bibliog Am J Sci 240:448-9 Je '42

BOULEVARDS. See Parkways

BOUNDARIES
Boundary error discovered; Texas-Louisiana boundary. Eng N 128:480 Mr 26 '42

BOUNDARY layer, Theory of
Calculation of the temperature field in the laminary boundary layer of an unheated body exposed to high speed flow; abstract. E. Eckert and O. Drewitz. Roy Aeronautical Soc J 46:341-2 O '42

BOURDON tubes
Accurate measurements of extreme pressures and temperatures; manufacture of Bourdon tube devices. Metal Prog 41:61-2 Ja '42
Suction and discharge control of products pipe line. J. W. Boyd. diag Oil & Gas J 41:96 S 24 '42

BOURNE, Massachusetts

Water supply

Bourne water district of Monument Beach. C. J. Crump. il Water Works & Sewerage 89:434-7 O '42

BOWDITCH, Nathaniel, 1773-1838
Yankee stargazer; the life of Nathaniel Bowditch. R. E. Berry. 234p $2.50 McGraw-Hill '41

BOWEN, Norman Levi, 1887-
Award of the Penrose medal of the Geological society of America. Science 94:458 N 14 '41
Bowen receives Penrose medal. bibliog por Am Cer Soc J (Bul) 21:4 Ja 15 '42
Presentation of the Penrose medal to Norman Levi Bowen. por(pl) Geol Soc Proc 1941:79-87 Mr '42

BOWLES, Oliver, 1877-
Sketch. por Am Cer Soc Bul 21:228 O 15 '42

BOWLING alleys
Industrial exhaust ventilation; Wellston bowling alleys. F. F. Kravath. il Heat & Ven 39:58 Ap '42

Electric equipment

Commercial revenue from bowling alleys. F. H. Meier. il Elec W 117:1906 My 30 '42

BOX strapping machines
War substitutions can be permanent! R. E. Orton. il diags Machine Design 14:55-9 Je '42

BOXES
Engineered containers for lock washers help streamline packing and shipping methods; Geo. K. Garrett co. il Steel 111:64+ Ag 31 '42

BOXES—*Continued*

What woods are best for military shipping boxes? T. A. Carlson. il Mod Packaging 15:41+ F '42

Wood goes right to the firing line. il Mod Packaging 15:35-6 My '42

See also

Cigar boxes
Hat boxes
Paper boxes

Manufacture

Bomb box order keeps builder busy. il Am Bld 64:42-3 My '42

BOXES, Wire bound

Wire-bound boxes replace kegs for lock washers. il Iron Age 150:67 Ag 13 '42

BOYCOTT, International

Axis goods out. Business Week p37 D 20 '41

Boycott applied; unions put on pressure for quick removal of Axis goods from retail shelves. il Business Week p46-7 D 20 '41

BRACHIOPODA, Fossil

Color-patterns in Devonian terebratuloids. P. E. Cloud, jr. Am J Sci 239:905-7 D '41

Homeomorphy, and a remarkable illustration. P. E. Cloud, jr. Am J Sci 239:899-904, pl 1 D '41

Terebratuloid brachiopoda of the Silurian and Devonian. P. E. Cloud, jr. il Geol Soc Special Pa no 38:1-182, pl 1-26 bibliog (p147-50) '42

BRACING

Wire rope on construction job aids shoring and bracing. diags Eng N 128:621 Ap 23 '42

See also

Wind pressure

BRADEN, William, 1871-1942

Appreciation. F. Benítez. Eng & Min J 143:72 S '42

BRAGG, Sir William Henry, 1862-1942

Passing of a great scientist. F. T. Sisco. Min & Met 23:304 My '42

Sketch. Chem & Ind 61:257-8 Je 6 '42

Sketch. por Engineering 153:234-6 Mr 20 '42; Electrician 128:247 Mr 20 '42

Sketch. W. F. G. Swann. Science 95:595-6 Je 12 '42

BRAID

Effect of yarn elongations on parachute fabric strength. W. J. Hamburger. diag Rayon 23:151-3, 291-2, 332-4 Mr, My-Je '42

BRAIN

Brain waves go on after death; abstract. M. A. Rubin and others. Science 95:supl1 My 15 '42

Effect of artificial changes in the brain on maze-learning in the white-rat; effect of injections of the pituitary growth hormone. C. J. Warden, S. Ross and S. Zamenhof. bibliog Science 95:414-15 Ap 17 '42

Release of potassium by the brain of the dog during electrical stimulation. V. H. Cicardo and A. Torino. bibliog Science 95:625 Je 19 '42

Three transactions on the cerebrum. E. Swedenborg. 2v in 3 731p; 175p; 179p $12 Swedenborg scientific assn, Philadelphia '38, '40; Review, by F. T. Lewis. Science 95:480-2 My 8 '42

Surgery

Psychosurgery; intelligence, emotion and social behavior following prefrontal lobotomy for mental disorders. W. Freeman and J. W. Watts. 337p bibliog(p319-31) $6 C. C. Thomas, Springfield, Ill. '42

Wounds and injuries

Acute brain and spinal cord injuries. S. Brock. bibliog Ind Med 11:378-81 Ag '42

Anoxic considerations in the diagnosis and treatment of craniocerebral injuries. F. Schreiber. Ind Med 11:383-4 Ag '42

BRAKE beams

Brake beam safety support improved. il Ry Age 113:613-14 O 17 '42; Same. Ry Mech Eng 116:501+ N '42

Universal brake beam safety support. il Ry Age 112:219+ Ja 17 '42; Same. Ry Mech Eng 116:64+ F '42

BRAKE linings

Resin-bonded friction materials; phenolic bonding agents increase wear-resistance and life of brake linings, and contribute to frictional characteristics. D. S. Bruce and R. T. Halstead. il Mod Plastics 19:40-1+ Ja '42

Thermoid products, 1942. Thermoid co, Trenton, N.J. '42

BRAKES

Automatic releasing of safety brakes of lifts. diags Mech Handling 29:48-50 Mr '42

Belt used in self-energizing brake. J. F. Cavanagh. diag Am Mach 86:1021-2 S 17 '42

Brake drums. O. Smalley. il Metals & Alloys 15:256-62, 405-11, 595-8 F-Ap '42

Cable reel brake prevents kinking. J. M. Dyer. il diag Elec W 118:958 S 19 '42

Clutch and brake mechanism for Steelweld presses. il Mach 48:171 Ja '42

Controls intermittent braking; patent assigned to Mergenthaler linotype company. diag Machine Design 14:250+ O '42

Determining brake horsepower. G. M. Stearns. diag Oil & Gas J 41:55 O 29 '42

Multiple disks improve braking; patent assigned to the Budd wheel co. diag Machine Design 14:146+ Je '42

Sintered metals in friction devices. E. F. Cone. bibliog il diag Metals & Alloys 14:843-50 D '41

Theory of brakes, an example of a theoretical study of wear. I. Opatowski. Franklin Inst J 234:239-49 S '42

Two-stage brake prevents coasting of film; Bolex motion picture film winder. il diags Product Eng 13:257-8 My '42

Welded strap ends; simplified design for brake and clutch bands. G. Johansson. diags Product Eng 13:262-5 My '42

Wrap; a further consideration of the subject; formula for calculating difference in tension between tight and slack ends of cord, belt or brakeband. C. Hubbard. Power Pl Eng 45:94 D '41

See also

Air brakes
Railroads—Braking

BRAKES, Automobile

Testing

Brake drums; dynamometer tests on grey cast-iron and meehanite. O. Smalley. il Automobile Eng 32:23-7 Ja '42

BRAKES, Electric

Electric brake for electric drive buses. F. M. Turner. il diag Mass Transportation 37:359-60 D '41

High production demands accurate braking. A. J. Moore. il Machine Design 14:50-3 Mr '42

Rubber mill braking. il Electrician 129:320-1 S 25 '42

BRAKES, Electropneumatic

Electropneumatic brakes for high-speed trains with particular reference to their electrical features. J. C. McCune. diags Elec Eng 61:Trans 137-42 Mr '42; Same cond. Ry Age 112:529-34 Mr 14 '42

BRAKES, Hydraulic

Hydraulic braking systems for overhead traveling cranes. J. S. Smith. il Steel 111:80, 82 Jl 27 '42

Simplifies hydraulic brake system; patent assigned to Jeffrey manufacturing co. diags Machine Design 14:206+ Ap '42

BRAKES, Motor bus

Dynamic braking of buses saves wear. G. M. Woods and B. O. Austin. diags Transit J 86:280-2 Ag '42

Dynamic braking pays dividends. W. J. Clardy. diags Power Pl Eng 46:72-3 Je '42

Electric brake for electric drive buses. F. M. Turner. il diag Mass Transportation 37:359-60 D '41

1942 bus axle and brake specifications; tabulation. Bus Transportation 21:54 Ja '42

BRAKES, Motor truck
Brake for heavy vehicles; Hi-Tork brake. diag Automobile Eng 31:447 D '41
Take care of those trucks. H. W. Hoover. il Safety Eng 83:23-6 Mr '42

BRAKES, Tractor
Transfer of load due to braking in tractor-trailer combinations. P. M. Heldt. diag Automotive Ind 85:40-1 D 15 '41

BRAKES, Trailer
Six-wheel braking and its related problems. W. F. Benning and M. C. Horine. il diags S A E J 50:381-91 S '42; Same cond. Automotive & Aviation Ind 86:30-1+ My 1 '42

BRAKES, Trolley bus
Hand brake improved. R. E. Boyland. diag Transit J 86:251 Jl '42
Service electric braking for city transit vehicles; abstract. W. J. Clardy. Mass Transportation 37:333-4 N '41

BRAKING, Dynamic
Control system for modern multiple-unit rapid-transit cars. H. G. Moore. il diags Elec Eng 61:Trans 142-7 Mr '42; Same cond. Mass Transportation 38:42-4 F '42
Dynamic braking of buses saves wear. G. M. Woods and B. O. Austin. diags Transit J 86:280-2 Ag '42
Dynamic braking pays dividends. W. J. Clardy. diags Power Pl Eng 46:72-3 Je '42
Rubber reclaiming; extensive use of dynamic braking. il Elec R (Lond) 131:77-8 Jl 17 '42
Service electric braking for city transit vehicles; abstract. W. J. Clardy. Mass Transportation 37:333-4 N '41

BRAMAH, Joseph, 1748-1814
Joseph Bramah and his inventions. H. W. Dickinson. Engineering 153:396, 415-16 My 15-22 '42

BRAN
Chemical examination of corn bran. F. E. Hooper. Ind & Eng Chem 34:728-9 Je '42

BRANCH banking. See Banks and banking—Branch banking

BRANCH management
Regular products banned by war, Thor finds and sells substitutes; washers and ironers replaced by Health cabinet and other products. il Sales Management 51:38 S 1 '42
Six-point plan bags prize for Devoe & Raynolds Detroit branch. Sales Management 51:74 Jl 1 '42
This sales control plan keeps tabs on a line of 45,000 items; United Motors Service operates a perpetual inventory system on stocks clearing through its twenty branches. Sales Management 50:52+ Ap 20 '42

BRANCH stores

Accounting

Some modern aids to accounting and control; Atlas supply company. J. O. Williford. il J Account 74:217-26 S '42

BRANDEIS, Louis Dembitz, 1856-1941
Mr Justice Brandeis, great American; press opinion and public appraisal. I. Dilliard, ed. 128p bibliog(p128) pa $1 Modern view press, 5156 Delmar blvd, St Louis '41
President praises Wagner and Brandeis. Comm & Fin Chr 156:26 Jl 2 '42

BRANDING
See also
Labels

BRANDS, Advertised. See Advertising, National

BRANDY
Commercial production of brandies. M. A. Joslyn and M. A. Amerine. (Agric. exp. sta. bul. 652) 80p bibliog(p73-7) Univ. of California, Berkeley '41

BRASS
Brass, bronze foundries under allocation classification July 31. Steel 111:56 Jl 20 '42
Cartridge brass hardness conversion table. Iron Age 149:55 My 21 '42
Cartridge brass; properties, effect of annealing and cold working. R. A. Wilkins and E. S. Bunn. charts Product Eng 13:42-6 Ja '42
Chromium plating of brass. R. B. Eyre. il Metal Finishing 40:192-5+ Ap '42
Common high brass; characteristics, properties, charts. R. A. Wilkins and E. S. Bunn. Product Eng 13:166-8 Mr '42
Comparison of X-ray line breadth and internal friction for alpha-brass as affected by cold-working and annealing. N. Niemann and S. T. Stephenson. bibliog Phys R 62:330-3 O 1 '42
Deep drawing brasses. R. A. Wilkins and E. S. Bunn. charts Product Eng 13:102-4 F '42
Designing to save scarce non-ferrous metals; with reference table of alternates and substitutes. C. S. Cole. Metals & Alloys 16:67-8 Jl '42
Effect of some mill variables on the earing of brass in deep drawing; abstract. E. W. Palmer and C. S. Smith. Metal Prog 41:832-4+ Je '42
Electrolytic behavior of ferrous and nonferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42
History, manufacture and properties of wrought brass; abstract. W. R. Webster. Metals & Alloys 15:650 Ap '42
Increasing production by elimination of unnecessary alloys. D. K. Crampton. Metal Prog 41:352-3 Mr '42
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:61 Je 1 '42
Joining brass to steel. J. S. Graham, jr. il Welding J 20:783 N '41
Physical properties of brass cartridge cases. R. S. Pratt. il diags Mech Eng 64:119-22 F '42; Same cond. Steel 111:48-9+ Ag 31 '42
Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity and tensile properties; abstract. R. H. Harrington and T. C. Jester. Metals & Alloys 15:160 Ja '42
Properties of 85-15 brass. R. A. Wilkins and E. S. Bunn. Product Eng 12:670-4 D '41
Properties of Muntz metal. R. A. Wilkins and E. S. Bunn. Product Eng 13:290-4 My '42
Recovering brass from metal waste; treatment of buffings, grindings and metallic dust. A. G. Arend. il Chem Age (Lond) 47:227-9 S 5 '42
Some properties of sintered and hot-pressed copper-zinc powder compacts. C. G. Goetzel. bibliog il Am Soc for Metals Trans 30:86-117 Mr '42; Abstract. Metals & Alloys 15:158+ Ja '42; Discussion. Am Soc for Metals Trans 30:117-23 Mr '42
Standard brass and bronze alloys of the Nonferrous metal institute; table. Metal Prog 41:515 Ap '42
Up-grading of scrap brass to war uses; part II of report by advisory committee, National academy of sciences. E. E. Thum. il Metal Prog 42:66-9 Jl '42
Use of statistical control in corrosion and contact resistance studies. W. E. Campbell. Electrochem Soc Trans 81 (preprint 26):391-404 Ap '42
See also
Brazing
Bronze powders
Gilding metal
Tombasil
Zinc alloys

Corrosion

Comparative value of arsenic, antimony, and phosphorus in preventing dezincification. W. Lynes. il Am Soc T M Proc 41:859-79 bibliog(53 titles, p877-9); Discussion. 880-5 '41

Cracking

Influence of external stresses on tendency of brass wires to stress-corrosion crack, as indicated by the mercurous nitrate test. H. P. Croft. diag Am Soc T M Proc 41:905-17; Discussion. 928-30 '41
Mercury cracking test, procedure and control. H. Rosenthal and A. L. Jamieson. il Am Soc T M Proc 41:897-904 bibliog(p918-26); Discussion. 927-30 '41
Service-cracking of brass; abstract. R. G. Johnston. Metals & Alloys 16:170 Jl '42

BRASS—Cracking—*Continued*

Bibliography

Bibliography on season cracking. Am Soc T M Proc 41:918-26 '41

Lead content

Leaded brasses; improvement of machinability. R. A. Wilkins and E. S. Bunn. Product Eng 13:407-10 Jl '42

Metallography

Electrolytic polishing of brass and copper. G. J. Foss, jr. and L. Shiller. il Metal Prog 42:77-9+ Jl '42

Testing

Influence of external stresses on tendency of brass wires to stress-corrosion crack, as indicated by the mercurous nitrate test. H. P. Croft. diag Am Soc T M Proc 41:905-17; Discussion. 928-30 '41

Mercury cracking test, procedure and control. H. Rosenthal and A. L. Jamieson. il Am Soc T M Proc 41:897-904; Discussion. 927-30 '41

Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity, and tensile properties. R. H. Harrington and T. C. Jester. bibliog il Am Soc for Metals Trans 30:124-42; Discussion. 142-6 Mr '42

Season cracking test for cartridge brass; saving mercury. H. Gisser. Metals & Alloys 16:238-40 Ag '42

BRASS, Substitutes for

Eliminating brass; plumbing industry even finds substitutes for substitutes. il Business Week p62+ Ap 11 '42

Priorities take materials, but Crane product designers are not stymied. il Sales Management 50:20-1 Ap 20 '42

BRASS-clad steel. See Steel, Brass-clad

BRASS founding

Properties of sand-cast low tin alloys. F. Hudson. Foundry 70:83-5, 167-9 O '42; Same. Steel 111:80, 82, 85+ N 2 '42

BRASS foundries

Reclaiming metal scrap from floor sweepings; reclamation plant of Westinghouse electric & mfg. co. W. A. Phair. il plan Iron Age 149:41-4 Ja 29 '42

Equipment

Brass foundry material handling. J. M. Monroe. il Iron Age 149:52 Ap 16 '42

BRASS industry and trade

Brass and copper products industry in Canada, 1940. 12p pa 25c Canada. Dominion bur. of statistics. Ottawa '42

BRASS plating

Brass plating. H. P. Coats. Electrochem Soc Trans 80 (preprint 37):519-30 O '41; Abstract. Metals & Alloys 15:858+ My '42

Control of ammonia in the electrodeposition of brass. J. H. Monaweck. Electrochem Soc Trans 82 (preprint 28):331-8 O '42

Plating alloys. C. B. F. Young. il Iron Age 149:53-5 F 12 '42

Single metal, binary and ternary alloy deposition from thiosulfate solutions; binary alloy deposition of copper-nickel, copper-cadmium and copper-zinc alloys from thiosulfate solutions. D. C. Gernes and G. H. Montillon. Electrochem Soc Trans 81 (preprint 20):297-315 Ap '42

BRASS work

Brass cartridge cases drawn with cemented carbide dies. F. J. Oliver. il diags Iron Age 150:41-8 Jl 2 '42

Fine threads in aluminum and brass. C. T. Stoeffler. diag Am Mach 86:1092 O 1 '42

Leaded brasses; improvement of machinability. R. A. Wilkins and E. S. Bunn. Product Eng 13:407-10 Jl '42

BRASS works

Brass making; extensive use of induction melting furnaces. il Elec R (Lond) 131:355-60 S 18 '42

BRAZIL

Brazil under Vargas. K. Loewenstein. 381p $2.75 Macmillan '42

Engineer looks at South America. J. C. Cosgrove. il map Explosives Eng 20:75-80, 115-16 Mr-Ap '42

See also

Aeronautics—Brazil
Agricultural machinery industry—Brazil
Bonds, Government—Brazil
Chemical industries—Brazil
Child labor laws—Brazil
Dairying—Brazil
Drug trade—Brazil
Iron mines and mining—Brazil
Libraries—Brazil
Mines and mineral resources—Brazil
Negroes in Brazil
Oil industries—Brazil
Pao Santo
Public health—Brazil
Railroads—Brazil
Rubber industry and trade—Brazil
Shipping—Brazil
Silk trade—Brazil
Steel works—Brazil
Textile industry—Brazil
Textile machinery industry—Brazil
World war, 1939—Brazil

Commerce

U.S.-Brazil ties in the post-war period. Comm & Fin Chr 156:464 Ag 6 '42

Commercial policy

Application of import-license system: procedure for exporters receiving import licenses. For Comm W 6:11 F 28 '42

Deals with Brazil; commodity transactions. Business Week p72-3 Ag 15 '42

Regulations promulgated governing issuance of import licenses for imports from the United States. For Comm W 6:10-11 F 14 '42

Strategic crystals; Brazilian government acts to stabilize quartz market. Business Week p88 N 15 '41

Economic conditions

Brazil blazes new economic trail. V. L. Horoth. il Mag of Wall St 70:580-2+ S 19 '42

Brazil in 1941. Economist 142:sup13 Mr 14 '42

Brazil's economy in '41. il For Comm W 8:5-7+ Jl 25 '42

Brazil's new economic strength. F. M. Stern. Barron's 22:18 Ap 20 '42

News by countries. Published in Foreign commerce weekly

Economic policy

Coordinator of economic mobilization, with wide powers, appointed. For Comm W 9:12-13 O 24 '42

Foreign relations

United States

Brazil; the new ally. il map Fortune 26:104-9+ N '42

Industries and resources

Amazon valley; its economic assets and liabilities. S. Zink. il For Comm W 8:3-5, 19, 29 Ag 29 '42

Brazil. Science 95:sup9-10 My 29 '42

Brazil, arsenal of strategic materials. il map For Comm W 6:6-11+ F 21 '42

Brazil discovers new uses for babassu oil. J. A. E. Orloski. il For Comm W 5:7+ D 27 '41

Brazil is prepared for economic collaboration with United nations. Comm & Fin Chr 156:810 S 3 '42

Brazil's resources. Economist 143:271-2 Ag 29 '42

Brazil's tree of life; greatest source of wax. W. N. Small. il For Comm W 8:8-10+ S 5 '42

Diamonds for victory; South America's diamond bullets aid democracy's arsenal. il For Comm W 6:3-5+ Ja 17 '42

Electrothermal ferro-alloy production in Brazil. W. A. Darrah. Electrochem Soc Trans 81 (preprint 29):431-8 Ap '42; Excerpts. Chem & Met Eng 49:206-8 S '42

Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:78-81 Ja 25 '42

Oil-nut odyssey; U.S. vegetable-oils mission explores Brazil's potentialities. D. R. Crone. il map For Comm W 7:3-5+ Je 13 '42

BRAZIL—Industries and resources—*Continued*

Scrap lessons from Brazil. A. J. Poirier. il For Comm W 8:3-5+ Ag 15 '42

U.S., Brazil sign lend-lease compacts. Comm & Fin Chr 155:1064 Mr 12 '42

U.S. names mission to develop Brazil's industry and war output. Comm & Fin Chr 156:899 S 10 '42

U.S. technical mission to help speed Brazil's war production. For Comm W 9:10 O 3 '42

U.S. technicians study Brazil needs. Oil Paint & Drug Rep 142:5+ S 7 '42

War projects for Brazil. map Fortune 26:216, 218 N '42

BRAZIL nuts

Brazil nut trade. For Comm W 5:32 N 15 '41

BRAZING

Aluminum can be brazed. Iron Age 149:130 My 14 '42

Application of vacuum-tube oscillators to inductive and dielectric heating in industry. J. P. Jordan. il diags Elec Eng 61:Trans 831-4 N '42

Best joint designs for silver-alloy brazing. F. T. Van Syckel. il diags Steel 109:97, 100+ D 8 '41

Brazed assemblies save material for ordnance. diags Product Eng 13:631 N '42

Brazed joints stronger than metal brazed. Marine Eng 47:107 My '42; Product Eng 13:414-15 Jl '42

Brazing carbide tips on tools. il diags Automotive Ind 86:25+ Ja 1 '42

Brazing of small assemblies; abstract. H. R. Brooker. Metals & Alloys 16:498+ S '42

Brazing practice in the electrical industry. il diags Elec R (Lond) 131:513-16 O 23 '42

Brazing restores reaction nozzles. il Elec W 117:2258 Je 27 '42

Brazing salvages cutters. W. H. Handrock. Steel 111:73 Ag 24 '42

Buick makes its own carbide tools. il Mach 48:154 Ja '42; Same. Iron Age 149:44 Ja 29 '42; Same. J Aeronautical Sci Aeronautical R Sec 9:57 Ja '42; Same. Aero Digest 40:141 F '42

Cable-repair method; silver-alloy brazing. il Gen Elec R 45:248 Ap '42

Cutting tools tipped with high speed steel; General tool & die corp. il Iron Age 149:53-5 Mr 26 '42

Electric resistance brazing of switch parts. il Steel 110:85 F 23 '42

Electric tool tipper. il Engineer 173:168-9 F 20 '42

Electrical brazing machine for carbide-tipped tools. il Engineering 153:126 F 13 '42

Electrical heating unit used in shell production. il Mach 48:180 F '42

Fast tool-brazing setup; Buick motor division of General motors corp. il Steel 110:92, 95 Ap 27 '42

Fluxes for oxy-acetylene welding and brazing. H. E. Landis, jr. and F. C. Saacke. Metal Prog 41:203 F '42

Hard soldering cold-worked copper; Tempobrazing. il diags Steel 110:100+ Je 8 '42

High-production high-economy methods for metal parts. D. Basch. Gen Elec R 44:690-4 D '41

How piping is welded for navy service. H. W. Hiemke and J. D. Bert. diags Heating-Piping 14:235-6 Ap '42

How to combine copper brazing and heat-treating into a continuous process. H. M. Webber. il diags Gen Elec R 44:593-4 N '41

Induction brazing in ordnance work. W. E. Benninghoff. il Steel 109:58+ D 29 '41

Induction brazing 75 mm. shell adapters. Iron Age 149:52 Mr 5 '42

Induction heating brazes 300 pieces an hour. il Iron Age 150:62 Ag 27 '42

Induction heating for aircraft production. J. W. Cable. il diag Aviation 41:127-8 Ag '42

Joining practices for high-nickel alloys. Am Mach 86:902 Ag 20 '42

Jointing of metals by fusion; value of different methods of heat application. A. E. Richards. il Chem Age (Lond) 47:9-11 Jl 4 '42

Lithium-bearing silver solder. F. R. Hensel, E. I. Larsen and E. F. Swazy. diags Metals & Alloys 15:962-5 Je '42

Locomotive cylinder heads welded; with cost data. L. W. Sagle. il diags Am Mach 86:937-9 S 3 '42

Mechanical clamp for carbide tip. diags Iron Age 149:56-7 My 28 '42

New type gas fired continuous conveyor brazing furnace. W. J. Shore. il Am Gas J 156:34-5 Ap '42

Reclaiming carbide-tipped tools; old shanks are utilized by brazing on new tips. il Steel 111:87+ Ag 17 '42

Repairing by welding and brazing; Builders-Providence, inc., Providence. D. Duffney. il Factory Management 100:146-7 Ag '42

Silver alloy brazed on copper castings. Elec W 117:1032+ Mr 21 '42; Same. Gen Elec R 45:302 My '42

Silver brazing alloys and procedures. D. Basch. Iron Age 149:62-3 Je 4 '42; Abstract. Metals & Alloys 16:320+ Ag '42

Silver brazing alloys and solders. H. Chase Product Eng 13:283-4 My '42

Silver's importance; applications and possibilities in automotive and aviation fields W. C. Hirsch. il Automotive & Aviation Ind 86:17-18 My 1 '42

Spirally brazed tubing. W. A. Phair. il diag Iron Age 150:55-7 S 17 '42

Tipped tools in a hurry. F. W. Curtis. il diags Am Mach 86:204-5 Mr 19 '42

Truly automatic hardening and brazing at high speed. W. E. Benninghoff. Metal Prog 42:600-1 O '42

BREAD

Acidity of bread containing calcium carbonate. P. Halton. Soc Chem Ind J 61:77-80 My '42

All-America package competition; award to Columbia baking co.; twin-pack loaves. il Mod Packaging 15:124-5+ Ap '42

Bread and milk; virtues of wholemeal overlooked. H. J. Jones. Chem & Ind 60:869 D 6 '41

Bread protection by addition of mold-inhibiting agent. Sci Am 166:189-90 Ap '42

Breads and more breads; recipes from many nations. L. L. Sumption and M. L. Ashbrook. 248p bibliog(p241) $2 Manual arts press '41

Cereal chemists report new technical information. Food Ind 14:69 Ap '42

Continuous method for manufacturing bread; patent. Food Ind 13:97 D '41

Enrichment of bread and flour with the two vitamins, thiamin and niacin, and the mineral, iron; abstract. R. R. Williams. Science 95:sup9 My 29 '42

Enrichment of white bread with vitamin B complex through the addition of debitterized brewers' yeast. R. Schwarz and others. bibliog Ind & Eng Chem 34:480-3 Ap '42

Freihofer baking co.; equipment for cooling bread. E. C. Pfaffhausen. il plan Heat & Ven 39:55-7 Ja '42

Microbiology and baking. A. J. Amos. bibliog Chem & Ind 61:117-19 Mr 7 '42; Discussion. 60:863-4 D 6 '41

Modern bread from the viewpoint of nutrition. H. C. Sherman and C. S. Pearson. 118p bibliog(p105-12) $1.75 Macmillan '42

Nation's food; cereals as food. D. W. Kent-Jones and A. J. Bacharach. bibliog Chem & Ind 60:823-7 N 22 '41

On whole wheat; British millers and bakers off white flour and bread for duration. Business Week p14 Mr 21 '42

Our bread and milk; discussion of Wheatmeal bread or milk, by Dr N. C. Wright. A. L. Bacharach. Chem & Ind 60:791-5 N 8 '41; Discussion. H. C. H. Graves. 60:852 N 29 '41

Photography aids bakers. P. D. Paddock. il Photo Tech 3:17 D '41

Phytic acid and its destruction in baking. W. J. S. Pringle and T. Moran. bibliog Soc Chem Ind J 61:108-10 Jl '42

Preventing spoilage by mold and bacteria. E. F. Glabe. il Food Ind 14:46-8 F '42

Stability of vitamin B_1 in the manufacture of bread; abstract. A. S. Schultz, L. Atkin and C. N. Frey. Food Ind 14:107 N '42

Waste of bread. Economist 142:565-6 Ap 25 '42

BREAD—*Continued*

Wheat peeled for better bread; process developed by mining engineer retains grain elements. H. T. Rutledge. il Sci Am 166: 25-6 Ja '42

White bread and brown bread. G. Fraenkel. Chem & Ind 61:84-6 F 14 '42; Discussion. H. C. H. Graves. 61:113 F 28 '42

White or brown bread? Economist 141:575 N 8 '41

See also

Bakers and bakeries — Flour
Baking — Yeasts

Advertising

Bread and Mr Westbrook Pegler. W. L. Day. il Adv & Sell 35:22 Ag '42

Analysis

Chemical determination of nicotinic acid content of flour and bread. D. Melnick, B. L. Oser and L. Siegel. bibliog Ind & Eng Chem Anal ed 13:879-83 D 15 '41

Extraction and assay of nicotinic acid from animal and plant tissues; comparison of methods. V. H. Cheldelin and R. R. Williams. bibliog Ind & Eng Chem Anal ed 14: 671-5 Ag 15 '42

Vitamin-B_1; estimation in wheatmeal and brown bread and stability of different forms of vitamin-B_1 during bread-making. E. R. Dawson and G. W. Martin. bibliog Soc Chem Ind J 61:13-18 Ja '42

Prices

Bakers' subsidy in Great Britain. Economist 142:806, 903 Je 6, 27 '42

Sampling

See Bread—Analysis

Staling

Freezing retards staling of bread; abstract. W. H. Cathcart. Food Ind 14:99 Mr '42

BREAKFAST foods. See Cereals, Prepared

BREAKWATERS

Breakwater, Washington; unit prices. Eng N 127:754 N 20 '41

BREATHING. See Respiration

BREEDING

Progress report on possibilities in progeny-test breeding. H. D. Goodale. Science 94: 442-3 N 7 '41

BREEN, J. Frederick G.

OPA New York chemical section chief. por Oil Paint & Drug Rep 141:3+ Mr 16 '42

BREÏN

Triterpene group; the constitution of breïn and maniladiol. I. M. Morice and J. C. E. Simpson. Chem Soc J p198-203 Mr '42

BREMERTON, Washington

See also

Housing—Bremerton, Washington

BREWERIES

How to convert brewery to industrial alcohol production. G. T. Reich. flow diags il diag Food Ind 14:46-8+ My '42

Mile long beer line. il plans Mod Packaging 16:81-6+ S '42

Electric equipment

Electrical Acme; electric wiring installed in cellular steel floor of brewery. il Elec West 88:42 Mr '42

Equipment

All-America package competition; award to Anheuser-Busch, inc. il plan Mod Packaging 15:224-5+ Ap '42

Power

Back-pressure plant. il Elec R (Lond) 130: 496-7 Ap 17 '42

Turbo-generator installation in a brewery. il diags plan Engineer 173:201-4 Mr 6 '42

BREWING

Brewing of lager beer. flow sheet il Chem & Met Eng 49:112-15 Jl '42

BREWING industries

Beer facing new restrictions. Barron's 22:5 O 26 '42

Beer's bottlenecks; problems from metal shortages. Business Week p19-20 My 2 '42

Brewers' lament; industry blames tax load for hard lot of small units. Business Week p34 D 6 '41

Country's stake in brewing industry; report on sales, distribution, advertising and public relations. A. E. Fein. Ptr Ink 199:32-3, 48+ My 29 '42

Seven leaders now sell 25% of Nation's beer volume. Sales Management 51:42-3 Ag 1 '42

See also

Beer

Canada

Canadian brewing industry increases production figures for 1940 and 1941. For Comm W 9:22 O 24 '42

Products made in the brewing industry, 1939-1940. For Comm W 5:22 D 6 '41

Great Britain

Recent brewery results. Economist 141:728 D 13 '41

Palestine

Brewing in Palestine. For Comm W 8:31 S 19 '42

BREWSTER aeronautical corporation

Chairman Work reviews company's expansion. Comm & Fin Chr 155:154 Ja 10 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 156:249 Jl 20 '42

Plants returned to company; new board of directors named. Comm & Fin Chr 155:2003 My 25 '42

BRICK and clay record (periodical)

Both employe and company profit from this idea stimulator; industrial education through trade paper reading by key employes of the Glen-Gery shale brick corp. R. E. Eshenaur. pors Brick & Clay Rec 101:30-3 S '42

BRICK construction

Brick fireplaces help absorb sales loss created by building restrictions. il Brick & Clay Rec 101:28-30 Ag '42

Brick masonry and other bomb shelters tested and compared by U.S., Britain. diags Brick & Clay Rec 100:31-3 F '42

Brickwork as seen by the engineer; with cost data. E. E. Seelye. diags Eng N 127:724-9 N 20 '41

Ideas for ordinary construction to conserve metal. L. R. Whitaker. diags Brick & Clay Rec 100:25 Ap '42

Poor workmanship, not bombs, causes many building failures. Brick & Clay Rec 100:36 Mr '42

Replacing metals in construction by using clay products. il Brick & Clay Rec 99:30, 32, 34+ N '41

See also

Brick houses — Pavements, Brick
Masonry — Walls, Brick

Reinforcement

How bomb proof shelters are made; reenforced brick masonry. diags plan Brick & Clay Rec 100:32, 34+ Mr '42

Reinforced brick masonry passes first real test in California earthquake. il Brick & Clay Rec 100:34, 36 F '42

BRICK handling

Handling refractories with fork trucks and pallets cuts costs, speeds masonry operations. il Steel 111:84+ Jl 20 '42

No skids with this lift truck handling system; illustrations and text; Comment (Breaking a bottleneck with lift trucks). E. B. Merry, jr. Brick & Clay Rec 100:24-9 My '42

One motor truck does the work of two at this plant; Seattle brick and tile co. il Brick & Clay Rec 101:22-3 Jl '42

Reducing brick handling costs 40c per thousand; lift trucks at General shale products corp. il diag Brick & Clay Rec 101: 15-16 Ag '42

BRICK houses

$5,250 brick victory home features Cleveland show. il plan Brick & Clay Rec 100:17 Mr '42

Possibilities of masonry engineering; suggestions for 10 possible improvements in wall construction. F. Heath, jr. Brick & Clay Rec 101:26, 28+ O '42

Yes, it is possible to build a brick home for $6,000, including the lot; construction outline and cost breakdown. il plans Brick & Clay Rec 99:28-9 N '41

BRICK industry and trade

Brick masonry can do the job to save critically needed lumber. Brick & Clay Rec 101:14 O '42

WPB urges clay plants to produce for anticipated increased demand. Brick & Clay Rec 101:16-17 S '42

Great Britain

Bricks. Economist 143:199-200 Ag 15 '42

Bricks in war; London brick company annual meeting. Economist 142:399, 406 Mr 21 '42

BRICK lining

How to line canals with brick; southern Texas irrigation canals. W. I. Gilson. il Eng N 128:350-2 F 26 '42

Observations on experimental malaria control drainage ditch linings. J. L. Robertson, jr. and others. Pub Health Rep 57:451-63, pl 1-8 Mr 27 '42

BRICK making. See Brickmaking

BRICK pavements. See Pavements, Brick

BRICK roads. See Roads, Brick

BRICK sewers. See Sewers, Brick

BRICK walls. See Walls, Brick

BRICK works

Brick kilns make good targets; plan to black them out. il Brick & Clay Rec 100:40+ Ja '42

Dryers for dehydrating foods! possibilities in kiln and dryer systems of brick plants. il Brick & Clay Rec 101:11-12 Ag '42

See also

Brickmaking

Costs

Diesels save $4,000 a year; Alwine brick co. il Brick & Clay Rec 100:18-19 Je '42

What does it cost to reopen a brick plant? Brick & Clay Rec 100:23 Je '42

Electric equipment

They tore out all the motors and put in new ones! M. D. Valentine co. il Brick & Clay Rec 101:15-18 O '42

Vibrating feeders aid production; Stockton fire brick co. G. A. Page. il Brick & Clay Rec 100:40+ Mr '42

Employees

Both employe and company profit from this idea stimulator; industrial education through trade paper reading by key employes of the Glen-Gery shale brick corp. R. E. Eshenaur. Brick & Clay Rec 101:30-3 S '42

Equipment

Draft system improvements cut drying time 6 hours, burning time, 1½ days; Lansdale brick company. il Brick & Clay Rec 101:26-7 Ag '42

Electrically heated screens prevent clogging of mesh, speed production. il Brick & Clay Rec 101:18-19 Jl '42

Get 99% salable soft mud brick from tunnel kiln firing; Nassau brick co. il Brick & Clay Rec 99:19-21 D '41

Humidity control system in dryer will pay for itself in a year; Mason City (Ia.) brick & tile co. il Brick & Clay Rec 100:44+ Mr '42

Modernizing an old brick yard. il Comp Air M 47:6716 Ap '42

More work done with less fatigue using industrial trucks; Harbison-Walker refractories co. il Brick & Clay Rec 100:36+ Je '42

No skids with this lift truck handling system; illustrations and text; Comment (Breaking a bottleneck with lift trucks). E. B. Merry, jr. Brick & Clay Rec 100:24-9 My '42

One motor truck does the work of two at this plant; Seattle brick and tile co. il Brick & Clay Rec 101:22-3 Jl '42

Permitting use of lift trucks on uneven roadways. il Brick & Clay Rec 101:23 O '42

Precision methods used to manufacture brick facing block and tile. il plan Brick & Clay Rec 101:18-20 S '42

Produce over a million brick monthly with only 28 men in plant; Glen-Gery shale brick corp. il diags Brick & Clay Rec 99:18-20 N '41

Maintenance and repair

What does it cost to reopen a brick plant? Brick & Clay Rec 100:23 Je '42

BRICKLAYING

Bricklaying and steel plant refractories; abstracts. A. Morton. Steel 109:186-7 S 15 '41; Blast F & Steel Pl 29:1127-9 O '41; Brick & Clay Rec 100:59-60 Ja '42

Brickwork and masonry. E. Molloy, ed. 140p $2.50 Chemical pub. co. '42

See also

Masonry

Mortar

BRICKMAKING

American ceramic society, annual meeting, Cincinnati; abstracts of structural clay products papers. Brick & Clay Rec 100:30-8 My '42

Clay products research investigations discussed at New York ceramic meeting. Brick & Clay Rec 99:38 D '41

Draft system improvements cut drying time 6 hours, burning time, 1½ days; Lansdale brick company. il Brick & Clay Rec 101:26-7 Ag '42

Electric heat makes brick smooth. il Brick & Clay Rec 101:42 S '42

Electric heat units improve brick finish. il Elec W 117:2106 Je 13 '42

Get 99% salable soft mud brick from tunnel kiln firing; Nassau brick co. il Brick & Clay Rec 99:19-21 D '41

Precision methods used to manufacture brick facing block and tile. il plan Brick & Clay Rec 101:18-20 S '42

Produce over a million brick monthly with only 28 men in plant; Glen-Gery shale brick corp. il diags Brick & Clay Rec 99:18-20 N '41

Tunnel kiln controls reduce brick losses. Brick & Clay Rec 101:44 S '42

Use of soda ash in structural clay; abstract. H. W. Harrington. Brick & Clay Rec 100:34 My '42

What's happening inside your kiln? L. R. Whitaker. il diags Brick & Clay Rec 100:24-6 F; 28-30 Mr; 43-4 Ap; 16-17 Je; 101:17-18 Jl; 24-5 Ag; 26+ S; 21-2 O; 26, 28 N '42

See also

Brick works

BRICKMAKING machinery

Improved dry press practice for chrome and magnesia refractories. G. E. Seil. il diags Brick & Clay Rec 101:38, 40+ Ag; 46, 48-50 S; 44, 46-7 O '42

BRICKS

See also

Brick construction

Brick industry and trade

Brickmaking

Clay

Fire brick

Masonry

Pavements, Brick

Silica brick

Tiles

Drying

Draft system improvements cut drying time 6 hours, burning time, 1½ days; Lansdale brick company. il Brick & Clay Rec 101:26-7 Ag '42

Humidity control system in dryer will pay for itself in a year; Mason City (Ia.) brick & tile co. il Brick & Clay Rec 100:44+ Mr '42

BRICKS—Drying—*Continued*

New hot floor dryer uses unit heaters to cut drying time; Ironton fire brick co. il Brick & Clay Rec 99:45-9 D '41

Freezing

Effect of freezing temperature in freezing-and-thawing tests of brick. J. C. Richmond and J. W. McBurney. il Am Soc T M Proc 41:967-74 '41

Manufacture

See Brickmaking

Permeability

Relation between air and water permeabilities of building brick. R. T. Stull and P. V. Johnson. Am Cer Soc Bul 20:443-6 D '41

Water permeability of walls built of masonry units. C. C. Fishburn. Brick & Clay Rec 101:33 S '42

Testing

Effect of freezing temperature in freezing-and-thawing tests of brick. J. C. Richmond and J. W. McBurney. il Am Soc T M Proc 41:967-74 '41

Freezing and thawing tests of brick. Franklin Inst J 234:279-81 S '42

Weight

How to calculate weight of brick pile. W. F. Schaphorst. chart Brick & Clay Rec 101:32 Jl '42

BRICKS, Insulating

Insulating firebrick for kiln construction. J. D. McCullough. il Am Cer Soc Bul 20:437-42 D '41

See also

Fire brick

BRIDGE accidents

Tanker wrecks lift bridge over Chesapeake and Delaware canal. il Eng N 129:197 Ag 6 '42

BRIDGE approaches

Changing grades for vertical curves simplified by formulas. E. J. Smith. Eng N 129:42 Jl 2 '42

Drives 65-ft. concrete piles weighing 14½ tons; pile-trestle approaches; bridge-renewal job on the Norfolk & Western. il diags Ry Age 113:412-14 S 12 '42

BRIDGE bearings

Concrete rockers for Hawaiian bridges. R. C. Brinker. il diags Eng N 128:421-2 Mr 12 '42

BRIDGE compounds. See Cyclic compounds

BRIDGE design

Analyses of skew slabs. V. P. Jensen. Ill U Eng Exp Sta Bul 332:1-110 '41 (pa $1)

Attention turned to timber bridges by priorities on structural steel. W. C. Hopkins. il diags Eng N 128:279-84 F 12 '42

Bridge design and construction. W. G. Bowman. il Eng N 128:92-3 Ja 15 '42

Bridge features on the dual highway from Highland Creek to Oshawa. V. S. Murray. il diag map Roads & Bridges 80:26-9+ F '42

Bridge on Chesapeake and Delaware canal. il diags Engineer 174:314-16, 332-4 O 16-23 '42

Bridge proposed but not built; eighteenth century patented suspended bridge. R. S. Kirby. il Civil Eng 12:520 S '42

Building standardized bridges for a county. J. F. Mollenkopf. il Pub Works 73:25-6 Jl '42

Canadian national railways saves steel for war use on large grade-separation span. E. Eriksen. il diags Roads & Bridges 80:19-23+ Ja '42

Cantilever girders preferred. C. H. Wood. diag Eng N 129:235 Ag 13 '42

Concrete rockers for Hawaiian bridges. R. C. Brinker. il diags Eng N 128:421-2 Mr 12 '42

Co-operative investigation of bridge types; abstract. A. A. Jakkula. Roads & Bridges 80:54 My '42

Deflections of continuous steel-beam highway bridges. T. W. Oliver. Eng N 129:242 Ag 13 '42

Design and construction of North State Street bridge, Chicago. il diags Civil Eng 12:140-2 Mr '42

Design of a welded bridge. G. T. Horton. il diags Welding J 20:837-40 D '41; Discussion. 21:185-6 Mr '42

Design of St Georges tied arch span. J. M. Garrelts. il diags Am Soc C E Proc 67:1801-12 D '41; Discussion. 68:341-2, 593-5, 845-53, 1054-6, 1168-70, 1411-12, 1617-18 F, Ap-Je, S-N '42

Design of welded steelwork in Bridgewater bridge, Tasmania. D. V. Isaacs. il diags Welding J 21:601-8 S '42

Design procedure for continuous hollow-girder concrete bridges. il diag Roads & Bridges 80:30-1+ F '42

Direct computations for the sidesway of bents. A. Barjansky. Civil Eng 12:623-5 N '42

Dynamics and bridge design. A. M. Freudenthal. Eng N 129:540-1 O 22 '42

Heavy load tests on a plywood girder; civil engineering laboratory of Carnegie institute of technology. C. W. Muhlenbruch. il diags Eng N 129:31-3 Jl 2 '42; Abstract. Engineering 154:128 Ag 14 '42

Historic accidents and disasters; second Quebec bridge. il diags Engineer 172:406-9 D 12 '41

Kentucky builds a high bridge across the Kentucky river at Cleveland, Ky. E. D. Smith. il diags map Eng N 129:25-7 Jl 2 '42

Moments in I-beam bridges. N. M. Newmark and C. P. Siess. Ill U Eng Exp Sta Bul 336:1-145 '42 (pa $1)

New Haven renews 15 bridges on mass-production basis. il diag Ry Age 113:600-3 O 17 '42

Ohio changes girder-type bridge designs from steel to reinforced concrete. W. S. Hindman. il diags Concrete 50:2-3 O '42

Overpass with minimum obstruction; reinforced-concrete supports for an overpass at Sacramento, Calif. il diags Eng N 129:348-9 S 10 '42

Perforated cover plates for steel columns; compressive properties of plates having ovaloid perforations and a width-to-thickness ratio of 40. A. H. Stang and M. Greenspan. pl diags J Research Nat Bur Stand 28:687-712 Je '42

Perforated cover plates for steel columns; compressive properties of plates having ovaloid perforations and a width-to-thickness ratio of 68. A. H. Stang and M. Greenspan. diags J Research Nat Bur Stand 29:279-302, pl 1-2 O '42

Perforated cover plates for steel columns; program and test methods. A. H. Stang and M. Greenspan. bibliog diags pls J Research Nat Bur Stand 28:669-86 Je '42

Phillip Island suspension bridge. M. G. Dempster. il diags Engineer 173:533-4 Je 26 '42

Rainbow bridge, Niagara Falls. il diags Engineer 172:349-51 N 21 '41

Rainbow bridge over the Niagara gorge. il diags plan Engineering 153:120-4, 130, 161-3, 164, 170 F 13, 27 '42

Restrained cable bridge. C. A. P. Turner. diag Eng N 128:533 Ap 9 '42; Discussion. 128:838-9 My 21 '42

Sabotage in steel; increased working stress as an aid to the war effort. C. P. Disney. Roads & Bridges 80:24+ My '42

Saving critical materials in bridge and highway construction. S. Mitchell. diags Roads & Sts 85:32-7 Ap '42

Side spans of suspension bridges under static lateral forces. L. Balog. Civil Eng 12:273-5 My '42

Steel bridge design to conserve material. S. Hardesty. il Civil Eng 12:431-4 Ag '42; Same. Roads & Bridges 80:27-8, 42, 44+ N '42

Stress concentrations in plates loaded over small areas. H. M. Westergaard. bibliog Am Soc C E Proc 68:509-34 Ap '42; Discussion. 68:1225-31, 1433-8, 1629-45 S-N '42

BRIDGE design—*Continued*

Suspension bridge tower cantilever problem. B. Birdsall. diags Am Soc C E Proc 67:517-32 Ap '41; Discussion. 68:305-10 F '42

This C.N.R. bridge designed to economize in steel; deck of Dorval, Que. bridge largely of reinforced concrete. il diag Ry Age 112:691-2+ Ap 4 '42

Tie dominates rib in St Georges arch. M. N. Quade. il diags Eng N 128:22-6 Ja 1 '42

Waterloo bridge. il plan Engineer 174:55-7 Jl 17 '42

Weighing reactions of Rainbow bridge, Niagara Falls. J. Jones. diags Civil Eng 11:730-1 D '41

See also

Bridges—Load

Bridges, Arched

Bridges, Suspension

BRIDGE engineering

Saving critical materials in bridge and highway construction. S. Mitchell. diags Roads & Sts 85:32-7 Ap '42

BRIDGE failures

Aerodynamic forces on suspension bridges; their effect in producing oscillations; report on failure of Tacoma Narrows bridge. il diags Can Eng R & B 79:24-5+ D '41

Falsework suspected in Hartford bridge collapse. il Eng N 127:837-8 D 11 '41

Historic accidents and disasters; first Quebec bridge. il diags Engineer 172:266-8, 286-8, 306-9 O 24-N 7 '41

Historic accidents and disasters; second Quebec bridge. il diags Engineer 172:406-9 D 12 '41

Stone arch falls under modern traffic. il Eng N 128:984 Je 18 '42

BRIDGE insurance. See Insurance, Bridge

BRIDGE painting

Jacob's ladder proves valuable for bridge painters. il Eng N 128:501 Mr 26 '42

Traveling crews paint bridges. il Comp Air M 47:6869 O '42

Safety measures

Bridge painting; hazards and precautions. Nat Safety N 45:38, 40 Ap '42

BRIDGEPORT, Connecticut

See also

Housing—Bridgeport, Connecticut

BRIDGEPORT brass company

Preferred stock offered. Comm & Fin Chr 154:1050 N 15 '41

BRIDGES, Harry R. 1900-

L'affaire Bridges. Business Week p65-6 Je 6 '42

Bridges' victory. Business Week p66 Ja 10 '42

BRIDGES

American bridges and dams. P. Zucker. bibliog 16p 48il $1.75 Greystone press, New York '41

Bridge design and construction. W. G. Bowman. il Eng N 128:92-3 Ja 15 '42

Bridge features on the dual highway from Highland Creek to Oshawa. V. S. Murray. il diag map Roads & Bridges 80:26-9+ F '42

Bridges and their builders. D. B. Steinman and S. R. Watson. 379p $3.75 Putnam '41

Conservation of critical materials; standards approved by the executive committee of the American association of state highway officials. Roads & Bridges 80:86-7 Ap '42

Constructing Colorado's first clover leaf. E. F. Williams. il plans Roads & Sts 85:54+ Ap '42

Contractor builds access road by management contract. il diags Roads & Sts 85:48, 50 Mr '42

Hartford bridge, with longest girder spans, opened. il Eng N 129:338 S 10 '42

Headline projects of 1941. il Eng N 128:120-1 Ja 15 '42

Rock Springs, Wyoming, subway-viaduct project. D. P. Miller. il Pub Works 73:11+ O '42

Saga of Wyoming's oldest bridge. il Eng N 128:411-12 Mr 12 '42

Substitutes for critical materials for highways, bridges and culverts. Eng N 128:824-5 My 14 '42

Virginia completes three bridges at Riverton. il Eng N 128:63 Ja 8 '42

See also

Bridge design

Culverts

Girders

Highway administration

Highway engineering

Trusses

also subdivision Bridges under names of cities, e.g. Chicago—Bridges

Architecture

America's most beautiful bridges of steel construction, as selected by A.I.S.C. jury. il Roads & Bridges 80:20+ Jl '42

Prize winners in steel bridge competition. il Eng N 128:816-17 My 14 '42

Cost

Bridge and approaches, Montana; unit prices. Eng N 127:853 D 11 '41

Bridge improvements, Oklahoma; unit prices. Eng N 129:320 Ag 27 '42

Bridge, Maryland; unit prices. Eng N 128:755 Ap 30 '42

Bridge, North Carolina; unit prices. Eng N 129:186 Jl 30 '42

Cloverleaf bridge and highway, Maryland; unit prices. Eng N 129:246 Ag 13 '42

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:226-36 Ap 23 '42

Highway and bridge, Colorado; unit prices. Eng N 128:162 Ja 22 '42

Highway and bridge, Mississippi; unit prices. Eng N 129:248 Ag 13 '42

Highway and bridges, Pennsylvania; unit prices. Eng N 129:508 O 8 '42

Highway bridges, Maryland; unit prices. Eng N 129:658 N 5 '42

Spokane Street viaduct, Seattle, Washington; unit prices. Eng N 128:228 F 5 '42

Willamette River bridge, Oregon; unit prices. Eng N 129:318 Ag 27 '42

Damage from floods, etc.

Repairing damage from May 1942 flood in Pennsylvania. J. L. Herber. il map Civil Eng 12:620-3 N '42

Erection

Bridge on Chesapeake and Delaware canal. il diag Engineer 174:332-4 O 23 '42

Closure operations on the double-deck Pit River bridge. il Eng N 127:764 N 27 '41

How St Georges tied arch was erected. W. H. Bruce and C. U. Kring. il diag Eng N 128:26-8 Ja 1 '42

Marshall Ford spillway bridge preassembled and pulled into position. J. E. Walters. il Eng N 127:840-1 D 11 '41

Niagara's Rainbow bridge. R. G. Skerrett. il Comp Air M 46:6584-6 N '41

Rainbow bridge, Niagara Falls. il diags Engineer 172:377-9 N 28 '41

Rainbow bridge over the Niagara gorge. il diags plan Engineering 153:120-4, 130, 161-3, 164, 170 F 13, 27 '42

Spanning the Mississippi at Chester, Ill. il Eng N 128:446 Mr 19 '42

Steel bents are different in these temporary bridges; method of interlocking cap beams with H-section piles in falsework at subway job. il diags Ry Age 113:136-8+ Jl 25 '42

See also

Bridges—Reconstruction

Bridges—Welding operations

Floors

Attention turned to timber bridges by priorities on structural steel; composite timber-concrete decks. W. C. Hopkins. il diags Eng N 128:281-4 F 12 '42

Bridge widths and bridge floor materials; data reported by 683 counties showing standard practices in county road systems. il Pub Works 73:35-8 Ja '42

Canvas cover permits wet weather paving on concrete deck of Pit River bridge. il Eng N 128:223 F 5 '42

BRIDGES—Floors—*Continued*

Creosoted black gum bridge floors. Pub Works 72:30 N '41

Lumber for bridge work in Sedgwick county, Kansas; abstract. Pub Works 73:18 Mr '42

Sealed wood deck construction. il Roads & Sts 85:41 Je '42

Strengthening our highway bridges; integrating a concrete roadway slab with the steel floor system. E. L. Pavlo. il diags Eng N 128:339-42 F 26 '42

This C.N.R. bridge designed to economize in steel; deck of Dorval, Que. bridge largely of reinforced concrete. il diag Ry Age 112:691-2+ Ap 4 '42

Wolmanized lumber on new Neches River bridge. il Ry Age 112:552 Mr 14 '42

Foundations and piers

Analysis of soil bearing test for highway bridge construction. S. M. May. diags Roads & Sts 84:34-5 N '41

Bridge on Chesapeake and Delaware canal. il diag Engineer 174:332-4 O 23 '42

Bridge piers encased against scour. H. L. Broadfoot and W. A. Chalkley. il diags Eng N 128:562-4 Ap 9 '42

C.N.R. practice in using steel H-piles for bridge piers. J. F. Salmon. il diags Roads & Bridges 80:21-6+ Ag '42

Concrete rockers for Hawaiian bridges. R. C. Brinker. il diags Eng N 128:421-2 Mr 12 '42

Design and construction of North State Street bridge, Chicago. il diags Civil Eng 12:140-2 Mr '42

Gain high speed in concreting operations on piers of new Hartford bridge. I. Shapiro. il Concrete 49:2-3 D '41

Highway crossing, Morganza floodway, Louisiana. N. E. Lant. il Roads & Sts 85:30-1 Ag '42

Kentucky builds a high bridge across the Kentucky river at Cleveland, Ky. E. D. Smith. il diags map Eng N 129:25-7 Jl 2 '42

Sand fill reduces weight of bridge pier. il diags Eng N 129:296-8 Ag 27 '42

Timber friction pile foundations. F. M. Masters. il diags Am Soc C E Proc 67:1657-82 N '41

Underground water supply complicates bridge pier construction, Peoria, Ill. W. H. Townsend. il diags map Eng N 128:495-7 Mr 26 '42

Welded steel fender pier; Nickel Plate Railroad bridge at Lorain, Ohio. G. H. Tinker. il diag Eng N 128:616-17 Ap 23 '42

Welding of 2-inch square reinforcing bars for piers of Pit River bridge. R. Sailer. il diags Am Concrete Inst J 14:53-8 S '42

Widening a steel and concrete bridge. il diags Eng N 128:254-6 F 12 '42

See also
Cofferdams

Law

President asks change re private claims, bridge authorizations. Comm & Fin Chr 155:352 Ja 22 '42

Lighting

Bridge lighting to prevent sabotage. il Ry Age 112:547 Mr 14 '42

Street lighting in Lorain follows progressive plan. E. J. Burger. il plan Elec W 116:1710-11+ N 29 '41

Load

Moments in I-beam bridges. N. M. Newmark and C. P. Siess. Ill U Eng Exp Sta Bul 336:1-145 '42 (pa $1)

Suspension bridge tower cantilever problem B. Birdsall. diags Am Soc C E Proc 67:517-32 Ap '41; Discussion. 68:305-10 F '42

Maintenance and repair

Dislocated bascule rocked into position; use of hydraulic and asphalt jacks. S. J. Michuda. il diags Eng N 128:557-9 Ap 9 '42

English bridges repaired with pre-cast concrete. Eng N 129:228 Ag 13 '42

See also
Bridges—Reconstruction

Protection

Bridge piers encased against scour. H. L. Broadfoot and W. A. Chalkley. il diags Eng N 128:562-4 Ap 9 '42

Protecting the bridges on the Queen Elizabeth way; blast-plate protection against locomotive stack blasts and gases. A. Sedgwick. il diag Roads & Bridges 80:28-30 Ja '42

Welded steel fender pier; Nickel Plate Railroad bridge at Lorain, Ohio. G. H. Tinker. il diag Eng N 128:616-17 Ap 23 '42

Reconstruction

Hidalgo-Reynosa bridge rebuilt. J. W. Beretta. il diag Eng N 127:890-1 D 18 '41

Highway bridge jacked up to new position. il Eng N 128:895 Je 4 '42

Major bridge replacement under traffic. A. B. Cohen. il diags Eng N 128:926-9 Je 4 '42

Rebuilding a suspension bridge; structure at Des Arc, Ark. provided with new anchorages, cable ends, hangers, and floor system. J. Strom. il Civil Eng 12:203-5 Ap '42

South western avenue bridge alterations, Chicago; unit prices. Eng N 129:658 N 5 '42

Strengthening our highway bridges; integrating a concrete roadway slab with the steel floor system. E. L. Pavlo. il diags Eng N 128:339-42 F 26 '42

Studies made to convert Chicago's fixed bridges. Eng N 128:896 Je 4 '42

Widening a steel and concrete bridge. il diags Eng N 128:254-6 F 12 '42

See also Bridges, Railroad—Reconstruction

Records

Bridge records in Mercer county, New Jersey. H. F. Harris and L. R. Schureman. il diags Pub Works 72:11-13 D '41

Stresses

See also
Bridges—Load

Testing

Bridge behavior recorded electrically; installation on Golden Gate structure; wind direction and velocity are measured. il Elec West 89:48 Ag '42

Weighing reactions of Rainbow bridge, Niagara Falls. J. Jones. diags Civil Eng 11:730-1 D '41

Tolls

Proceedings of American toll bridge association annual meeting, Tampa, Fla., March 17-20, 1941. L. Cross and H. J. Stradley, eds. v9 149p pa $1 Am. toll bridge assn, L. Cross, sec., Burlington-Bristol bridge, Burlington, N.J. '41

Vibration

Aerodynamic forces on suspension bridges; their effect in producing oscillations; report on failure of Tacoma Narrows bridge. il diags Can Eng R & B 79:24-5+ D '41

Welding operations

Bridge welding; structures on main line of Florida east coast railway company. T. H. Gardner. il Welding J 21:43-6 Ja '42

Design of a welded bridge. G. T. Horton. il diags Welding J 20:837-40 D '41; Discussion. 21:185-6 Mr '42

Design of welded steelwork in Bridgewater bridge, Tasmania. D. V. Isaacs. il diags Welding J 21:601-8 S '42

Distortion and shrinkage problems in ships and other large structures. L. Grover. il diags Welding J 21:665-75, 776-81 O-N '42

Strengthening bridges and structures by arc welding. il Mass Transportation 38:129 My '42

Welding of 2-inch square reinforcing bars for piers of Pit River bridge. R. Sailer. il diags Am Concrete Inst J 14:53-8 S '42

BRIDGES—*Continued*

Widening

Widening a steel and concrete bridge. il diags Eng N 128:254-6 F 12 '42

Width

Bridge widths and bridge floor materials; data reported by 683 counties showing standard practices in county road systems. il Pub Works 73:35-8 Ja '42

Mercer county, New Jersey

Bridge records in Mercer county. H. F. Harris and L. R. Schureman. il diags Pub Works 72:11-13 D '41

Norway

Brückenbauten deutscher eisenbahnpioniere in Norwegen. W. Stoy. il diags V D I 85:349-56 Ap 12 '41; Abstract (How German military engineers rebuilt Norwegian bridges). Eng N 127:874 D 18 '41

Salvador

New link in Pan American highway; Lempa River bridge. il For Comm W 8:7+ Jl 18 '42

BRIDGES, Arched

Bridge on Chesapeake and Delaware canal. il diags Engineer 174:314-16, 332-4 O 16-23 '42

Design of St Georges tied arch span. J. M. Garrelts. il diags Am Soc C E Proc 67:1801-12 D '41; Discussion. 68:341-2, 593-5, 845-53, 1054-6, 1168-70, 1411-12, 1617-18 F, Ap-Je, S-N '42

Falsework for arches set on drum gates; highway bridge across Grand Coulee Dam spillway. il diag Eng N 128:552-3 Ap 9 '42

Famous concrete bridge has no reinforcement in arches and spandrels; Walnut Lane bridge, Philadelphia. il Concrete 50:4 Jl '42

Highway arch bridge of plain concrete is wholly without steel. diags Concrete 50:5-6 Ag '42

How St Georges tied arch was erected. W. H. Bruce and C. U. Kring. il diag Eng N 128:26-8 Ja 1 '42

Niagara's Rainbow bridge. R. G. Skerrett. il Comp Air M 46:6584-6 N '41

Rainbow bridge, Niagara Falls. il diags Engineer 172:349-51, 377-9 N 21-28 '41

Rainbow bridge over the Niagara gorge. il diags plan Engineering 153:120-4, 130, 161-3, 164, 170 F 13, 27 '42

Tie dominates rib in St Georges arch. M. N. Quade. il diags Eng N 128:22-6 Ja 1 '42

BRIDGES, Bascule

Design and construction of North State Street bridge, Chicago. il diags Civil Eng 12:140-2 Mr '42

Dislocated bascule rocked into position; use of hydraulic and asphalt jacks. S. J. Michuda. il diags Eng N 128:557-9 Ap 9 '42

BRIDGES, Cantilever

Cantilever girders preferred. C. H. Wood. diag Eng N 129:235 Ag 13 '42

Unusual railway cantilever bridge. J. A. Wineland. il diags Eng N 127:718-21 N 20 '41

BRIDGES, Concrete

Alabama improves road into Birmingham. il map Eng N 129:190-1 Ag 6 '42

Building standardized bridges for a county. J. F. Mollenkopf. il diag Pub Works 73:25-7 Jl '42

C.N.R. uses new method of repairing concrete and masonry structures. E. J. Napier. il Roads & Bridges 80:25-7+ S '42

Concrete bridges over new traffic artery untangle congestion in Detroit. il Concrete 50:2-3+ Jl '42

Concrete trestle-bridge construction on the Missouri Pacific railroad. R. P. Hart. il diags Engineering 154:161-3, 170, 201-2, 203, 210 Ag 28, S 11 '42

Contractor invades territory of general mud; grade separation project in Arizona. P. F. Glendening. il Roads & Sts 85:25-30 Ap '42

Design procedure for continuous hollow-girder concrete bridges. il diag Roads & Bridges 80:30-1+ F '42

Falsework for arches set on drum gates; highway bridge across Grand Coulee Dam spillway. il diag Eng N 128:552-3 Ap 9 '42

Famous concrete bridge has no reinforcement in arches and spandrels; Walnut Lane bridge, Philadelphia. il Concrete 50:4 Jl '42

Highway arch bridge of plain concrete is wholly without steel. diags Concrete 50:5-6 Ag '42

Highway crossing, Morganza floodway, Louisiana. N. E. Lant. il Roads & Sts 85:30-4 Ag '42

Major bridge replacement under traffic. A. B. Cohen. il diags Eng N 128:926-9 Je 4 '42

Michigan builds grade-separation projects of tri-level type. il Concrete 50:4-5 O '42

Ohio changes girder-type bridge designs from steel to reinforced concrete. W. S. Hindman. il diags Concrete 50:2-3 O '42

Open new bridge over Colorado river. il Eng N 129:401 S 24 '42

Saving critical materials in bridge and highway construction. S. Mitchell. diags Roads & Sts 85:32-7 Ap '42

Waterloo bridge. il plan Engineer 174:55-7 Jl 17 '42

Cost

Bridge, Georgia; unit prices. Eng N 129:508 O 8 '42

Bridge, Kentucky; unit prices. Eng N 129:508 O 8 '42

Bridge, West Virginia; unit prices. Eng N 128:938 Je 4 '42

Bridges, Texas; unit prices. Eng N 128:940 Je 4 '42

Grade separation, Washington, D.C.; unit prices. Eng N 128:508 Mr 26 '42

Highways and bridges, Oklahoma; unit prices. Eng N 129:448 S 24 '42

BRIDGES, Iron and steel

America's most beautiful bridges of steel construction, as selected by A.I.S.C. jury. il Roads & Bridges 80:20+ Jl '42

Highway bridge completed at Chester, Ill. il Eng N 129:391 S 17 '42

Prize winners in steel bridge competition. il Eng N 128:816-17 My 14 '42

Prizes for bridges announced by American institute of steel construction. il Arch Rec 91:14 Je '42

Steel bridge design to conserve material. S. Hardesty. il Civil Eng 12:431-4 Ag '42; Same. Roads & Bridges 80:27-8, 42, 44+ N '42

See also
Bridges, Railroad

BRIDGES, Lift

Design of welded steelwork in Bridgewater bridge, Tasmania. D. V. Isaacs. il diags Welding J 21:601-8 S '42

Tanker wrecks lift bridge over Chesapeake and Delaware canal. il Eng N 129:197 Ag 6 '42

BRIDGES, Movable

Studies made to convert Chicago's fixed bridges. Eng N 128:896 Je 4 '42

See also
Bridges, Bascule
Bridges, Swing

Electric equipment

Bridge joins continents at Panama canal. il Eng N 128:348-9 F 26 '42

BRIDGES, Pontoon

Army engineers build floating bridges to supplement capital communications. il Eng N 129:68 Jl 9 '42

Army's rubber floats save truck space. il diags Product Eng 13:624-5 N '42

BRIDGES, Portable

Army's rubber floats save truck space. il diags Product Eng 13:624-5 N '42

British bridges assembled from five standard parts; developed by Butterley co. il Eng N 128:148 Ja 22 '42

Emergency traveling bridge used in England. Eng N 128:40 Ja 1 '42

BRIDGES, Railroad

Attractive structures feature this grade separation; Aqueduct, Queens county, Long Island. il plans Ry Age 111:995-8 D 13 '41

Bridge piers encased against scour. H. L. Broadfoot and W. A. Chalkley. il diags Eng N 128:562-4 Ap 9 '42

Bridge welding; structures on main line of Florida east coast railway company. T. H. Gardner. il Welding J 21:43-6 Ja '42

C.N.R. practice in using steel H-piles for bridge piers. J. F. Salmon. il diags Roads & Bridges 80:21-6+ Ag '42

Canadian national railways saves steel for war use on large grade-separation span. E. Eriksen. il diags Roads & Bridges 80:19-23+ Ja '42

C.N.R. uses new method of repairing concrete and masonry structures. E. J. Napier. il Roads & Bridges 80:25-7+ S '42

Concrete trestle-bridge construction on the Missouri Pacific railroad. R. P. Hart. il diags Engineering 154:161-3, 170, 201-2, 203, 210 Ag 28, S 11 '42

Conservation of materials is essential; abstract. R. P. Hart. Ry Age 113:735 N 7 '42

Dunkirk grade separation project has interesting features. il plan Ry Age 113:445-8 S 19 '42

Emergency traveling bridge used in England. Eng N 128:40 Ja 1 '42

Lackawanna raises tracks above streets in Syracuse, N.Y.; project includes new station. il map Ry Age 112:896-900+, 902 My 9 '42

Outlook for materials for bridges and buildings. D. P. Beach. il Ry Age 113:690-1 O 31 '42

Railroad underpass aids St Louis traffic. W. J. Hedley. il diags Eng N 129:290-2 Ag 27 '42

Railway diversion and Pit River bridge, California. il Engineer 173:371-4 My 1 '42

Railways and air raids. il diags Engineer 173:174-7, 196-7+, 220-2, 244-6, 247, 270-3 F 27-Mr 27 '42

Steel bents are different in these temporary bridges; method of interlocking cap beams with H-section piles in falsework at subway job. il diags Ry Age 113:136-8+ Jl 25 '42

This C.N.R. bridge designed to economize in steel; deck of Dorval, Que. bridge largely of reinforced concrete. il diag Ry Age 112:691-2+ Ap 4 '42

Unusual railway cantilever bridge. J. A. Wineland. il diags Eng N 127:718-21 N 20 '41

See also

Railroads—Track elevation

Reconstruction

Drives 65-ft. concrete piles weighing 14½ tons; pile-trestle approaches; bridge-renewal job on the Norfolk & Western. il diags Ry Age 113:412-14 S 12 '42

New Haven renews 15 bridges on mass-production basis. il diag Ry Age 113:600-3 O 17 '42

Welded steel fender pier; Nickel Plate Railroad bridge at Lorain, Ohio. G. H. Tinker. il diag Eng N 128:616-17 Ap 23 '42

Testing

Can locomotive hammer-blow be abolished? effect on bridges. H. N. Colam and J. D. Watson. Engineering 153:136-8 F 13 '42; Same cond. Inst Mech Eng J & Proc 146: Proc 165-6 F '42

Special A.R.E.A. report on impact. Ry Age 112:613 Mr 21 '42

BRIDGES, Stone

Stone arch falls under modern traffic. il Eng N 128:984 Je 18 '42

BRIDGES, Suspension

Aerodynamic forces on suspension bridges; their effect in producing oscillations; report on failure of Tacoma Narrows bridge. il diags Can Eng R & B 79:24-5+ D '41

Civil engineering in 1941. il diags Engineer 173:4 Ja 2 '42

Golden Gate bridge movements being reported for study. il Eng N 128:867 My 21 '42

Hidalgo-Reynosa bridge rebuilt. J. W. Beretta. il diag Eng N 127:890-1 D 18 '41

New link in Pan American highway; Lempa River bridge. il For Comm W 8:7+ Jl 18 '42

Rational design methods for short-span suspension bridges for modern highway loadings. C. B. McCullough, G. S. Paxson and D. R. Smith. 205p Oregon. State highway dept, Salem '40

Rebuilding a suspension bridge; structure at Des Arc, Ark. provided with new anchorages, cable ends, hangers, and floor system. J. Strom. il Civil Eng 12:203-5 Ap '42

Restrained cable bridge. C. A. P. Turner. diag Eng N 128:533 Ap 9 '42; Discussion. 128:838-9 My 21 '42

Side spans of suspension bridges under static lateral forces. L. Balog. Civil Eng 12:237-5 My '42

Suspension bridge tower cantilever problem. B. Birdsall. diags Am Soc C E Proc 67: 517-32 Ap '41; Discussion. 67:1348; 68:305-10 S '41, F '42

Anchorages

Phillip Island suspension bridge. M. G. Dempster. il diags Engineer 173:533-4 Je 26 '42

BRIDGES, Swing

Bridge joins continents at Panama canal. il Eng N 128:348-9 F 26 '42

Welded steel fender pier; Nickel Plate Railroad bridge at Lorain, Ohio. G. H. Tinker. il diag Eng N 128:616-17 Ap 23 '42

BRIDGES, Temporary

Steel bents are different in these temporary bridges; method of interlocking cap beams with H-section piles in falsework at subway job. il diags Ry Age 113:136-8+ Jl 25 '42

BRIDGES, Wooden

All-timber overpass at Fort Lewis, Washington. il Pub Works 73:66-7 Je '42

Attention turned to timber bridges by priorities on structural steel. W. C. Hopkins. il diags Eng N 128:279-84 F 12 '42

Reconstruction of bridge by German forces. Pub Works 73:32 Jl '42

Scientific use of wood in structures. il diags Pub Works 73:25-6 My '42

Timber bridge is answer to steel shortage. il Eng N 128:377 Mr 5 '42

Timber bridges in Germany. Pub Works 73: 71 O '42

Timber-built highway bridge conserves steel; Crabbe Road bridge near Tuscaloosa, Ala. il Roads & Sts 85:74 Mr '42

Timber trusses used for Washington overpass. il Eng N 127:847 D 11 '41

BRIGGS manufacturing company

Common stocks in strategic position. il Mag of Wall St 69:502 F 7 '42

High yield stocks with first call on earnings. G. Gordon. Mag of Wall St 70:360 Jl 11 '42

War earnings. H. Lawrence. Barron's 22:20 Ap 13 '42

BRIGHAM, Elbert Sidney, 1877-

National life of Vermont president. C. Axman. por East Underw 42:3+ D 12 '41

BRIGHT electroplating. See Electroplating

BRIGHTNESS

Ability to see low contrasts at night. M. Luckiesh and F. K. Moss. il J Aeronautical Sci 9:261-3 My '42

Brightness and brightness meters. A. H. Taylor. bibliog il Illum Eng 37:19-30 Ja '42; Correction. 37:425 Jl '42

Brightness control; school lighting, natural and artificial. il diag plan Elec West 88:62 Je '42

Brightness rating of metal surfaces measured by reflected light. A. M. Suggs. diag Product Eng 13:253 My '42

Brightness scale of exterior scenes and the computation of correct photographic exposure. L. A. Jones and H. R. Condit. il diags Opt Soc Am J 31:651-78 N '41

BRIGHTNESS—*Continued*

Brightnesses of light sources. W. E. Forsythe and E. M. Watson. Gen Elec R 44:489-91 S '41; Correction. 45:402 Jl '42

Comfortable lighting. W. Harrison and M. Luckiesh. bibliog il diags Illum Eng 36: 1109-24; Discussion. 1125-8 D '41

Glare and lighting design; direct glare. E. W. Fowler and C. L. Crouch. bibliog diag Illum Eng 36:897-916 N '41; Discussion. 37: 171-81 Mr '42

Intrinsic brightness as a factor in discomfort from glare. M. Luckiesh and F. K. Moss. diag Opt Soc Am J 32:6-7 Ja '42

Low brightness meter. A. H. Taylor. il Opt Soc Am J 31:738-9 D '41

Meters for measuring blackout brightness. A. H. Taylor. il Elec W 118:810-12 S 5 '42

Relative sensitivities of television pickup tubes, photographic film, and the human eye. A. Rose. bibliog Inst Radio Eng Proc 30:293-300 Je '42

See also

Paper—Brightness

BRINE

Ammonia brine-cooler tubes of charcoal iron. Power 86:828-9+ N '42

Density of oil-field liquids. G. M. Stearns. Oil & Gas J 40:237 Mr 26 '42

Durability of cements in contact with brines and chemical solutions. H. H. Miller. il Pet Eng 13:50, 52, 54 Ag '42

Mechanized ice-salt system refrigerates Armour trucks. il diag Food Ind 14:62-3 F '42

New brine system boosts rink profits; Pasadena skating rink. O. H. Barnhill. il diag Power Pl Eng 45:63-4 D '41

Scale removed from pipe by simple treatment; use of sodium hexametaphosphate and alkaline quebracho tannin; line carrying salt water for disposal. H. F. Simons. diag Oil & Gas J 40:29-30 Ap 16 '42

Sodium chloride brine tables for brine at 60° F. C. D. Looker. Chem Ind 49:796-7 D '41

Subsurface disposal of oil-field brines in Oklahoma. S. S. Taylor and E. O. Owens. pls diags map U S Bur Mines Rep of Invest 3603:1-54 '42

See also

Salt

BRIQUETS

Cupola practice with briquettes. W. A. Hambley and K. Geist. il Iron Age 150: 39-42 Ag 27; 60-3 S 3 '42

BRIQUETTING

Briquetting plant for metal swarf, William Johnson and sons, Leeds. il diags Engineering 152:306-8, 310, 366-8, 426-7 O 17, N 7, 28 '41

Cupola practice with briquettes. W. A. Hambley and K. Geist. il Iron Age 150:39-42 Ag 27; 60-3 S 3 '42

Metal powders; Moraine products division of General Motors; iron and steel scrap converted into iron powder; illustrations. Iron Age 149:49-53 F 19 '42

Spectrographic analysis of briquetted tablets. H. W. Dietert. il Opt Soc Am J 31:693-6 N '41

What is briquetting current practice? W. A. Phair. il Iron Age 150:31-3 O 29 '42

BRIQUETTING (fuel)

Briquetting medium-volatile bituminous coal without binder; abstract. J. A. Brusset. Coal Age 46:95 N '41

Experiences in briquetting coking coal; Brazeau collieries, ltd. J. Shanks. flow sheet il plan Min Cong J 28:45-7 Ap '42

Texas lignite mine develops method of briquetting. il Coal Age 46:51 N '41

BRISTLES

Add hog bristle business. Chem Ind 51:405 S '42

Hog-bristle crisis. Business Week p38+ F 14 '42

Hog bristles reserved for military needs. Oil Paint & Drug Rep 140:7+ D 22 '41

Istle for bristle? Tech R 44:213-14 Mr '42

Owners must report stocks. For Comm W 6:20 Ja 24 '42

BRISTLES, Artificial

Hairbrushes with synthetic bristles. il Consumers' Research Bul 9:13-14 D '41

Longer-wearing bristles for industry. il Mod Plastics 19:50 Ja '42

BRISTOL, Connecticut

Water supply

Experiences with calgon treatment at Bristol. I. L. Newell. Water Works & Sewerage 89:269-70 Je '42

BRISTOL aeroplane company, limited

Ordinary general meeting, 31st, Bristol. Economist 141:547 N 1 '41

BRISTOL-MYERS company

Another look. Mag of Wall St 71:37 O 17 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 155:2363 Je 22 '42

Dividend outlook. H. Lawrence. Barron's 22:5 Mr 23 '42

BRITISH-AMERICAN tobacco company

Annual general meeting, 39th, London. Economist 142:201 F 7 '42

BRITISH association for the advancement of science

Science in Britain. R. Gregory. Science 96: 213-15 S 4 '42

BRITISH association of chemists

Annual general meeting, London, Nov. 29. Chem & Ind 60:881-2 D 13 '41

BRITISH broadcasting corporation

B.B.C. P. Bloomfield. 255p 9s Eyre & Spottiswoode, London '41

B.B.C. broadcasts in 40 tongues. For Comm W 7:33 Je 6 '42

British broadcasting corporation; how it was organized. Gas J (Lond) 239:317-18 Ag 26 '42

BRITISH celanese company

Celanese preference scheme. Economist 143: 459, 461 O 10 '42

Profits, years to June 30, 1939-1941. Economist 141:726+ D 13 '41

BRITISH COLUMBIA

British Columbia and the United States; the North Pacific slope from fur trade to aviation. F. W. Howay, W. N. Sage and H. F. Angus. 408p $3.50 Ryerson press '42

See also Mines and mineral resources—British Columbia

Sanitary affairs

Public-health engineering in British Columbia. R. Bowering. Water & Sewage 80:23+ Ag '42

BRITISH COLUMBIA-Yukon-Alaska highway. See Roads—Canada

BRITISH electrical and allied manufacturers' association

Report; work of the Council during 1941. Electrician 128:358-9 Ap 17 '42

BRITISH electrical devolpment association

Annual meeting, London. Elec R (Lond) 130: 391-4 Mr 27 '42

BRITISH GUIANA

Economic conditions

Living conditions and office-operating costs in British Guiana. For Comm W 8:11+ Jl 18 '42

News by countries. For Comm W 6:11-12 Mr 21 '42

BRITISH in Africa

Africans and British rule. M. Perham. rev ed 98p pa 45c Oxford '42

BRITISH insulated cables, limited

Annual general meeting, Liverpool. Economist 142:447 Mr 28 '42

BRITISH league of nations union

British league of nations union and the I.L.O. Int Labour R 45:415-16 Ap '42

BRITISH MALAYA. See Malaya, British

BRITISH medical journal

Paper restrictions and the British medical journal. Science 95:457 My 1 '42

BRITISH museum (natural history)
Zoological society of London and the Natural history museum at South Kensington; reports. Science 96:245-6 S 11 '42

BRITISH museum laboratory
Some aspects of museum laboratory work. H. J. Plenderleith. Chem & Ind 60:807-12 N 15 '41

BRITISH standards institution
British standards institution shows activity in international cooperation. Ind Stand 12: 319-20 D '41

BRITISH WEST AFRICA. See Africa, British West

BROACHES
Resharpening broaches to obtain longer life. H. Gotberg. il diags Mach 48:129-30 Ja '42

BROACHING
Broaching of rifling in cannon. H. F. Safford. il Mech Eng 64:113-17 F '42

Broaching speeds production of articulated connecting rods. il diags Steel 111:168 S 14 '42

Broaching speeds tank engine production. il diags Steel 110:60 Je 29 '42

Chips removed in broaching blind holes. A. Lundgren. diags Am Mach 86:956-7 S 3 '42

Colonial broach company; making rotors used in hydraulic pumps. J Aeronautical Sci Aeronautical R Sec 9:57+ Mr '42

Rifling machine-gun barrels by broaching. il Mach 49:157-9 O '42

BROACHING machines
Broaching machine applications. diags Aero Digest 40:122 Je '42

Broaching provides more uniform fuel mixture for carburetors. il Steel 109:91 N 17 '41

Colonial dual-ram broaching machine. il Mach 48:163 Mr '42

BROCCOLI, Frozen
Brief summaries of grade standards issued by the Agricultural marketing administration. Food Ind 14:67+ N '42

BROCHURES
See also
Advertising, Mail—Brochures

BROCK, Elbert H. 1865-1941
Sketch. por East Underw 42:3 N 14 '41

BROCKTON Edison company
Financing approved. Comm & Fin Chr 156: 689 Ag 24 '42

BROKEN HILL mines. See Mines and mineral resources—New South Wales

BROKERS
Bache co. questions WLB's intervention. Comm & Fin Chr 156:1631 N 5 '42

Chandler act as applied in the case of a bankrupt stock broker: text of decision; cash customer of bankrupt broker can regain securities in broker's name. Comm & Fin Chr 154:1221 N 27 '41

Classification and financial experience of the customers of a typical New York stock exchange firm from 1933 to 1938. P. F. Wendt. 269p bibliog(p257-63) pa $2 Paul Francis Wendt, Maryville, Tenn. '41

Federal conciliator to adjust strike of J. S. Bache employes. Comm & Fin Chr 156: 1439 O 22 '42

Latest ruling of New York Attorney General would handicap reputable dealers. Comm & Fin Chr 155:2105+ Je 4 '42

N.Y. Attorney General warns dealers funds for when issued deals must be so used. Comm & Fin Chr 154:1210 N 27 '41

SEC rule on returns to investment company affiliates. Comm & Fin Chr 156:184 Jl 16 '42

State mediators withdraw from efforts to settle strike of J. S. Bache co. employees. Comm & Fin Chr 156:1251+ O 8 '42

Text of SEC rule establishing maximum indebtedness ratio for brokers and dealers. Comm & Fin Chr 156:1618 N 5 '42

See also
Food brokers
Insurance brokers
Stock exchange
also Association of stock exchange firms

Accounting

New margin account rule given NYSE members. Comm & Fin Chr 156:883 S 10 '42

Commissions

Governors approve new commission rates. Comm & Fin Chr 155:1855 My 14 '42

New tax rulings for investors; deductibility of interest charges; status of selling commissions. L. J. Freeman. Barron's 22:7 Ap 6 '42

Split commissions would benefit both New York stock exchange and over-the-counter firms. Comm & Fin Chr 155:1025+ Mr 12 '42; Reply. B. S. Gardner. 155:1430 Ap 9 '42

Stock exchange commission rates should be raised and split with non-member firms permitted. W. T. Hyde, jr. Comm & Fin Chr 156:720 Ag 27 '42

Law

Expensive buy; question of closing out customer's account and purchase by broker. M. L. Hayward. Barron's 22:5 Je 15 '42

Responsibility for a customer-man's error. M. L. Hayward. Barron's 22:7 S 28 '42

Statute makes brokers liable for misleading. Comm & Fin Chr 155:9 Ja 1 '42

BROKERS' blanket bond. See Bankers' blanket bond

BROKERS' loans
Customers' debit balances, money borrowed, and principal related items of stock exchange firms carrying margin accounts, monthly June 1940-Nov. 1941. Fed Res Bul 28:44 Ja '42 [cont monthly]

BROMATES
Reduction of iodate and bromate at the dropping mercury electrode in neutral and basic media and the effects of salts upon the current-voltage curves. E. F. Orlemann and I. M. Kolthoff. Am Chem Soc J 64:1970-7 Ag '42

Reduction of iodate and bromate in acid medium at the dropping mercury electrode. E. F. Orlemann and I. M. Kolthoff. Am Chem Soc J 64:1044-52 My '42

See also
Potassium bromate

BROMIDES
Halogen addition to ethylene derivatives; bromine additions in the presence of bromide ions. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:697-704 Mr '42

See also
Methyl bromide
Potassium bromide

Analysis

Estimation of bromides in the presence of other halides. P. L. Kapur, M. R. Verma and B. D. Khosla. bibliog Ind & Eng Chem Anal ed 14:157-8 F 15 '42

Microestimation of bromide as pentabromorosaniline. W. J. Turner. bibliog Ind & Eng Chem Anal ed 14:599-600 Jl 15 '42

Rapid estimation of bromides in the presence of chlorides. M. Lane. Ind & Eng Chem Anal ed 14:149 F 15 '42

BROMINATION
Bromination of 1 : 5-dihydroxy- and 1 : 5-diacetoxy-naphthalene, 5-methoxy-1-naphthol, and 1 : 5-dimethoxynaphthalene. A. H. Carter, E. Race and F. M. Rowe. Chem Soc J p236-9 Ap '42

Bromination of 4-phenylphenyl chloroacetate. S. E. Hazlet, L. C. Hensley and H. Jass. Am Chem Soc J 64:2449-50 O '42

Liquid sulfur dioxide as solvent medium for chemical reactions. J. Ross and others. bibliog Ind & Eng Chem 34:924-6 Ag '42

BROMINATION—*Continued*

Preparation and properties of certain polyethoxyethanes and their bromo derivatives. S. M. McElvain and P. M. Walters. bibliog Am Chem Soc J 64:1963-5 Ag '42

Rapid method of measuring the unsaturation of hydrogenated fats. H. Jasperson. bibliog Soc Chem Ind J 61:115-16 Jl '42

Semimicrochemical assay for diethylstilbestrol. C. W. Sondern and C. Burson. Ind & Eng Chem Anal ed 14:358-9 Ap 15 '42

Stereoisomeric bromo 1,4-dimesityl unsaturated 1,4-diketones. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2426-30 O '42

Sterols; 17-bromopregnan-3(β)-ol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. bibliog Am Chem Soc J 64:210-13 F '42

Sterols; 17,21-dibromopregnan-2(β)-ol-20-one and its conversion to pregnanol-3(β),21-diol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:213-15 F '42

Sterols; rearrangement of 16,17-dibromopregnan-3(β)-ol-20-one. R. E. Marker, R. B. Wagner and E. L. Wittbecker. Am Chem Soc J 64:2093-7 S '42

Sterols; rearrangement of 17,21-dibromo-*allo*-pregnan-3(β)-ol-20-one acetate. R. E. Marker and others. Am Chem Soc J 64:2089-92 S '42

Structures of certain highly arylated indenones and their behavior with bromine. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2127-30 S '42

Studies on substituted diphenylbutadienes; the addition of bromine to 1-*p*-bromophenyl-4-phenyl-1,3-butadiene. K. A. Huggins and O. E. Yokley. Am Chem Soc J 64:1160-1 My '42

Water effects upon the photochemical bromination of acetophenone. E. M. Hicks, M. H. Hicks and J. R. Sampey. bibliog Am Chem Soc J 64:887-9 Ap '42

BROMINE

Chemical effects of the nuclear isomeric transition in bromine; evidence for atomic bromine and some of its properties. D. DeVault and W. F. Libby. bibliog Am Chem Soc J 63:3216-24 N '41

Dead sea and its surroundings. E. Bergmann. Engineer 174:150-1 Ag 21 '42

Equilibrium in the gas reaction, $CHBr_3 + Br_2 \rightleftharpoons CBr_4 + HBr$. J. W. Strong and R. N. Pease. J Chem Phys 10:79-80 Ja '42

Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

Halogen addition to ethylene derivatives; bromine additions in the presence of bromide ions. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:697-704 Mr '42

Halogen addition to ethylene derivatives; bromine and iodine additions in glacial acetic acid. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:709-16 Mr '42

Molecular weight of potassium bromide and the atomic weights of silver, bromine and potassium. R. K. McAlpine and E. J. Bird. bibliog diag Am Chem Soc J 63:2960-5 N '41

Oxidation of raw starch granules by electrolysis in alkaline sodium chloride solution. F. F. Farley and R. M. Hixon. bibliog il Ind & Eng Chem 34:677-81 Je '42

Reactions in solutions containing O_3, H_2O_2, H^+ and Br^-; the specific rate of the reaction $O_3 + Br^- \rightarrow$. H. Taube. Am Chem Soc J 64:2468-74 O '42

Reactions of bromine with carbon tetrachloride and tetrachloroethylene following neutron capture and isomeric nuclear transition. E. G. Bohlman and J. E. Willard. bibliog Am Chem Soc J 64:1342-6 Je '42

Separation of nuclear isomers. E. P. Cooper. bibliog Phys R 61:1-5 Ja 1 '42

Isotopes

Absence of high energy beta-rays from Br^{82}. M. Deutsch. diag Phys R 61:672 My 1 '42

BROMINE compounds

Brucine as a reagent for partially resolving bromoalkanes; the configurations of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

Restricted rotation in aryl olefins; β-bromo-β-(2-alkoxynaphthyl)-α-alkylacrylic acids. R. Adams, L. O. Binder and F. C. McGrew. bibliog Am Chem Soc J 64:1791-4 Ag '42

α,β-Unsaturated aminoketones; reaction of pyrrolidine and tetrahydroquinoline with bromine derivatives of benzalacetophenone. N. H. Cromwell. Am Chem Soc J 63:2984-6 N '41

See also

Bromination

BROMOACETIC acid

Effect of temperature on the surface tension and density of some halogen substituted acetic acids. J. J. Jasper and L. Rosenstein. bibliog Am Chem Soc J 64:2078-9 S '42

Solvent effects on the kinetics of ionic reactions and the choice of the concentration scale. H. G. Davis and V. K. LaMer. bibliog J Chem Phys 10:585-97 S '42

BROMOBENZENEDIAZONIUM hydroxide

Polymerization of styrene catalyzed by *p*-bromobenzenediazonium hydroxide. C. C. Price and D. A. Durham. bibliog Am Chem Soc J 64:2508-9 O '42

BROMOBENZYL pseudothiuronium bromide

Identification of organic acids by the use of *p*-bromobenzyl pseudothiuronium bromide. B. T. Dewey and H. G. Shasky. Am Chem Soc J 63:3526-7 D '41

BROMOBUTANONE

New acid synthesis; the effect of hindrance; methyl tertiary-butyl- and methylethylpropylacetic acids. J. G. Aston and others. Am Chem Soc J 64:300-2 F '42

BROMOBUTYRALDEHYDE

Ketene acetals; the elimination of hydrogen bromide from the acetals of α-bromoaldehydes; isopropyl- and *n*-propylketene diethylacetal. S. M. McElvain, R. L. Clarke and G. D. Jones. bibliog Am Chem Soc J 64:1966-9 Ag '42

BROMODIMETHYLPROPANE

Acetylenic analog of neopentyl bromide; evidence that the hindrance to displacement reactions in neopentyl halides is steric in nature. P. D. Bartlett and L. J. Rosen. bibliog il Am Chem Soc J 64:543-6 Mr '42

BROMODIPHENYL

Nitration of certain halobiphenyls; nitro derivatives of 4-bromobiphenyl. F. H. Case. Am Chem Soc J 64:1848-52 Ag '42

BROMOFORM

Equilibrium in the gas reaction, $CHBr_3 + Br_2 \rightleftharpoons CBr_4 + HBr$. J. W. Strong and R. N. Pease. J Chem Phys 10:79-80 Ja '42

Mechanism of the haloform reaction; the preparation of mixed haloforms. J. G. Aston and others. Am Chem Soc J 64:1413-16 Je '42

Use of bromoform in the separation of noncalcareous microfossils. A. S. Knox. Science 95:307-8 Mr 20 '42

BROMOIL process. See Photography—Printing processes

BROMOISOQUINOLINE

Derivatives of aminoisoquinolines. J. J. Craig and W. E. Cass. bibliog Am Chem Soc J 64:783-4 Ap '42

BROMOISOVALERALDEHYDE

Ketene acetals; the elimination of hydrogen bromide from the acetals of α-bromoaldehydes; isopropyl- and *n*-propylketene diethylacetal. S. M. McElvain, R. L. Clarke and G. D. Jones. bibliog Am Chem Soc J 64:1966-9 Ag '42

BROMOMESIDINE

Restricted rotation in arylamines; preparation and resolution of N-succinyl-N-ethyl-3-bromomesidine and 5-alkoxy-4-N-succinyl-4-alkylamino-1,3-dimethylbenzenes. R. Adams and H. W. Stewart. Am Chem Soc J 63:2859-64 N '41

BROMOMETHOXYBUTYRIC acid
Synthesis of α-bromo-β-methoxy-*n*-butyric acid. H. E. Carter and L. F. Ney. Am Chem Soc J 64:1223-4 My '42

BROMONAPHTHALENE
Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

BROMOPHENOL blue
Acidimetric orthophosphoric acid assay. J. A. Calamari and R. Hubata. Ind & Eng Chem Anal ed 14:55-6 Ja 15 '42

BROMOPREGNANOLONE
Sterols; 17-bromopregnan-3(β)-ol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. bibliog Am Chem Soc J 64:210-13 F '42
Sterols; rearrangement of 17-bromopregnan-3(β)-ol-20-one. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:216-18 F '42

BROMOPREGNANONE
Sterols; 17-bromo-*allo*-pregnanone-20 and 17, 21-dibromo-*allo*-pregnanone-20. R. E. Marker and others. Am Chem Soc J 64:822-4 Ap '42

BROMPTON pulp and paper company, limited
Brompton co. offers to buy Lake Sulphite. Paper Tr J 113:7 D 11 '41
First American sulphate firm plans great new mill. G. Agassiz. il pors Pulp & Pa of Can 43:422-30 My '42

BRØNSTED-Christiansen-Scatchard equation
Temperature dependence of reaction rates from the standpoint of the Broensted-Christiansen-Scatchard equation. E. S. Amis and G. Jaffé. bibliog J Chem Phys 10:646-50 O '42

BRONZE
Alternate specifications for tin bronze. Steel 110:68 Je 22 '42
A.S.T.M. alternates for sand casting alloys in tin-bronze, leaded tin-bronze, high-leaded tin-bronze. Steel 111:78 Jl 27 '42
Brass, bronze foundries under allocation classification July 31. Steel 111:56 Jl 20 '42
Bronze gear alloys. Metal Prog 42:61 Jl '42
Bronze replaces babbitt on valve crossheads. N. Deering. il Am Mach 85:1231-2 N 26 '41
Bronze specifications to government requirements; data sheets. Mach 49:145 S '42
Designing to save scarce non-ferrous metals; with reference table of alternates and substitutes. C. S. Cole. Metals & Alloys 16:67-8 Jl '42
High strength bronzes from scrap. W. Romanoff. Metal Prog 42:670 O '42
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:58 Je 8 '42
Loads and deflections of phosphor-bronze round-wire helical springs; data sheets. J. I. Hommel, comp. Mach 49:155 O; 213 N '42
New tin-free gear bronze; development by Hamilton gear & machine co. Mach 49:205 N '42
Oil retaining bronze bearings. Mech Handling 29:91-2 My '42
Powder metallurgy of tin; manufacture and uses of tin and tin alloy powders; with list of patents. H. C. Watkins. bibliog il Metals & Alloys 15:751-7 My '42
Proposed tentative alternate bronzes. S A E J 50:sup34 Je '42
Standard brass and bronze alloys of the Non-ferrous metal institute; table. Metal Prog 41:515 Ap '42
Stringent bronze impurity limits are holding back war production. G. J. LeBrasse. Steel 110:68, 70+ Ap 27 '42
Study of the embrittling effect of zinc upon stainless steel; effect of tobin bronze. O. H. Henry and R. W. Schroeder. il diag Welding J 21:sup287-90 Je '42
Substitutes for the bronzes. N. K. B. Patch. Steel 110:88, 90 My 11 '42
See also
Silicon bronze

BRONZE, Commercial. See Brass

BRONZE age
Swords and plowshares; metal implements of war spurred tremendous advances in peaceful arts. J. Early. Barron's 22:40 Ja 12 '42

BRONZE founding
Casting has a blow hole over hub. Foundry 70:74 Ag '42
Casting silicon bronze alloys; report of non-ferrous sub-committee of the Institute of British foundrymen. Foundry 70:87+ S '42; Same. Steel 111:76, 105-8 S 21 '42
Causes of porosity in tin-bronze castings. T. F. Pearson and W. A. Baker. Engineering 153:10, 95-6, 125-6 Ja 2, 30, F 13 '42
Koppers propellers for driving the victory merchant fleet. S. W. Randolph. il diag Mach 49:155-8 N '42
Navy Tombasil; a new silicon bronze casting alloy. H. L. Edsall. il Iron Age 150:54-9 Jl 30 '42
Nonferrous foundry produces variety of castings; Ampco metal inc. E. Bremer. il Foundry 70:70-2, 167-8 N '42
Producing silicon bronze castings. J. E. Crown. il diags Foundry 70:64-5+ Ag '42
Properties of sand-cast low tin alloys. F. Hudson. Foundry 70:83-5, 167-9 O '42; Same. Steel 111:80, 82, 85+ N 2 '42
Silicon bronzes for sand castings. M. G. Corson. il Iron Age 149:46-9 Ja 29 '42
Silicon bronzes; foundry practice, physical properties and applications. E. G. Jennings and H. J. Roast. Iron Age 150:54-5 Jl 16 '42
Stringent bronze impurity limits are holding back war production. G. J. LeBrasse. Steel 110:68, 70+ Ap 27 '42

BRONZE powders
Manufacture of bronze pigments. H. H. Mandle. il Metal Prog 41:214-16 F '42

BRONZE welding
Bronze welded track joints; abstract. W. H. Wilson. Coal Age 46:74+ N '41
Bronze welding iron castings. B. H. Higgs. diag Metals & Alloys 15:277 F '42
How cracked crusher head is salvaged by bronze-welding. il Concrete (mill sec) 50:194 Je '42
Joining brass to steel. J. S. Graham, jr. il Welding J 20:783 N '41
Maintenance savings offered by welding methods. il Coal Age 47:68+ Jl '42
New coated bronze electrode for arc welded repairs on bronze propellers. Marine Eng 47:268 O '42
New gear teeth with bronze welding. A. R. Ciotti. diags Power 86:664 S '42
Piston maintenance by bronze-surfacing. il Diesel Power 20:597 Jl '42
Preheating aids cast-iron repair. R. E. Baker. il diag Welding J 21:272 Ap '42
Preheating for expansion aids in welding; cast-iron mine-hoist drum. diag Coal Age 47:94 F '42
Propeller repair. R. Wagner. diag Welding J 21:20-1 Ja '42
Safe-ending tools; bronze-welded collar promotes safety as well as longer life. il diags Mass Transportation 38:101-2 Ap '42
Welding reclaims bronze hydro runner. G. H. Bragg. il Elec W 118:76-7 Jl 11 '42

BRONZE wire. See Wire, Bronze

BROOKLINE, Massachusetts

Streets

Seventy years of wooden sidewalks; modern walks of Wolmanized lumber. il Roads & Sts 85:48-9 O '42

BROOKLYN, New York

Fire department

Being volunteer firemen meant social recognition in old days in Brooklyn. Weekly Underw 147:270 Ag 8 '42

BROOKLYN botanic garden

Annual report. Science 95:547-8 My 29 '42

BROOKLYN polytechnic institute. See Polytechnic institute of Brooklyn

BROOKLYN union gas company

Brooklyn Union plans for defense. C. E. Paige and others. il Gas Age 88:17-28 N 20 '41; Same cond. Am Gas J 155:25-8, 31-2 N '41; Excerpt. Am Gas Assn Mo 23:378-80+ N '41

Financial outlook. Pub Util 30:664-5 N 5 '42

Income account, 1940 and 1941. Comm & Fin Chr 155:1595 Ap 20 '42

Special report. Comm & Fin Chr 156:1322-3 O 12 '42

Status of Brooklyn Union gas bonds. A. Jansen. Barron's 22:19 Ag 31 '42

To comply with commission's recommendations by adjusting accounts. Comm & Fin Chr 154:1726 D 30 '41

BROTHERHOOD of electrical workers. See International brotherhood of electrical workers

BROTHERHOOD of painters, decorators and paperhangers of America

Unvarnished; the autobiography of a union leader. P. Zausner. 381p $2 Brotherhood publishers, 1440 Broadway, New York '41

BROWDER, Earl

President commutes Browder's sentence; says he has been punished enough. Comm & Fin Chr 155:1947 My 21 '42

BROWN, Boveri and company

Jubilee of Brown, Boveri and company. il Engineering 153:281-3, 321-3, pl 1-2 Ap 10, 24 '42

BROWN, Earl Ivan, 1874-

Sketch. por Civil Eng 12:50-1 Ja '42

BROWN, Wade Hampton, 1878-1942

Sketch. H. S. N. Greene. Science 96:221-2 S 4 '42

BROWN, Willard Cowles, 1895-

Sketch. por Illum Eng 36:875-7 N '41

BROWN

Use of cutch in textile printing. K. B. Parekh. Textile Col 63:702 D '41

BROWN coal. See Lignite

BROWN company (Maine)

Annual report. Comm & Fin Chr 155:1750-1 My 4 '42

Pays off loans. Comm & Fin Chr 155:86 Ja 6 '42

Reorganization plan. Comm & Fin Chr 156:3+ Jl 2 '42

Reorganization plan consummated. Comm & Fin Chr 154:1374-5 D 6 '41

BROWN university

Advanced instruction and research in mechanics at Brown university. Science 95:217 F 27 '42

Photographic laboratory

Microfilm photography; air conditioning in the Photographic laboratory, Brown university. Science 96:266 S 18 '42

BROWNIAN movements

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

On the theory of Brownian motion. L. Infeld. 42p bibliog(p41-2) $1.25 Univ. of Toronto press, Toronto '40

BROWNING, Albert Jesse, 1899-

Men who oversee procurement. por Business Week p7 F 7 '42

Portrait. Ptr Ink 197:18 D 12 '41

BROWNWOOD, Texas

How Brownwood, Texas, handled its preparedness boom. R. McDaniel. il Pub Works 73:21+ My '42

BRUCINE

Brucine as a reagent for partially resolving bromoalkanes; the configurations of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

Inter-relation of first- and second-order asymmetric transformations. M. M. Jamison and E. E. Turner. Chem Soc J p437-40 Jl '42

BRUSHES

Dressing table jewels; injection molding of colorful brush backs. il Mod Plastics 19:38-9+ F '42

Hog-bristle crisis. Business Week p38+ F 14 '42

How to conserve brushes. Steel 111:108 Ag 17 '42

Rating

Hairbrushes with synthetic bristles. il Consumers' Research Bul 9:13-14 D '41

BRUSHES (electric machinery)

Brushes; their selection and care. Elec West 87:59 N; 51 D '41

Commutation; theories, faults and remedies. diags Electrician 128:111-13, 163-4 F 13, 27 '42

Factors underlying performance of carbon brushes. A. A. Stark. Coal Age 47:84 Ag '42

How to install dc machine brushes; illustrated instruction. Power 86:747 O '42

Silver used in graphite brushes. Elec W 118:308 Jl 25 '42

Theory of the brush-shifting a-c motor. A. G. Conrad, F. Zweig and J. G. Clarke. diags Elec Eng 60:Trans 819-36; 61:Trans 502-13 Ag '41, Jl '42

What causes excessive brush wear? diags Power 86:196-7 Mr '42

BRUSHES, Industrial

Brush for cleaning area around rivet holes. il Sci Am 166:94-5 F '42

Fuller dabbing brush for Noble combs. il Textile World 92:107-8 F '42

Hanson-Van Winkle-Munning wire brushes. il Steel 111:176-7 S 14 '42

Polishing brush eliminates stress concentration points; abstracts. R. O. Peterson. il Sci Am 167:107-8 S '42; Iron Age 150:54 O 8 '42

Power brush cleans connections fast. il Elec W 118:815 S 5 '42

Power brushing replaces hand finishing methods. G. O. Rowland. Metal Prog 42:774-5 O '42

BUBBLE bath. See Bath preparations

BUBBLES

Rotating bubble method for the determination of surface and interfacial tensions. B. Vonnegut. il R Sci Instr 13:6-9 Ja '42

BUCHER, George Heisler, 1888-

Portrait. Sci Am 167:152 O '42

BUCHI supercharging system. See Diesel engines—Superchargers

BUCKETS

Grabs; patent. diags(p264) Mech Handling 28:263 D '41

Internal stopper for dump bucket handling concrete. Eng N 128:44 Ja 1 '42

BUCKLING. See Strains and stresses

BUCKNER, Mortimer, 1873-1942

Sketch. Comm & Fin Chr 155:968 Mr 5 '42

BUCKNER, Thomas Aylette, 1865-

Former chairman and president of New York Life. pors East Underw 42:5+ D 12 '41

Sketch. por East Underw 43:3+ Ag 14 '42; Nat Underw (Life ed) 46:4+ Ag 14 '42; Weekly Underw 147:338-9 Ag 15 '42

BUCYRUS-ERIE company

Favored stocks priced from $1 to $10. Mag of Wall St Manual p7 Ap '42

BUDD, Ralph, 1879-

Portrait. Ry Age 112:8 Ja 3 '42

Sketch. por Civil Eng 12:52-3 Ja '42

BUDGET

Problems relating to governmental accounting. F. F. Tannery. J Account 74:332-40 O '42

Toward better budgeting. 36p Governmental research assn, 5135 Cass av, Detroit '41

See also

Finance

Government expenditures

Purchasing, Government

BUDGET—*Continued*

Alabama

Alabama's balancing budget. P. E. Alyea. 141p Bur. of public administration, Univ. of Alabama, University, Ala. '42

Argentina

Argentine budget for 1943. Bankers M 145: 54 Jl '42

Australia

Australian government increases war budget. Comm & Fin Chr 154:1228 N 27 '41

Brazil

Budget for 1942. For Comm W 6:9 Mr 7 '42

Chile

Chile's new budget. Economist 141:627 N 22 '41

Public finances; budgetary revenues in 1941. For Comm W 6:13 Mr 21 '42

Cuba

Government finances. For Comm W 6:13-14 Ja 24 '42

Dominican Republic

Budget for 1942. For Comm W 6:16 Mr 21 '42

Ecuador

Budget for 1942. For Comm W 5:13 N 29 '41

Finland

Budget estimates for 1943. For Comm W 9: 18 O 17 '42

Great Britain

British budget and war finance. Int Labour R 46:179-81 Ag '42

Budget figures. Economist 142:492-4 Ap 11 '42

Shadow of the budget. Economist 142:4-5, 136-7 Ja 3, 31 '42; Excerpts. Bankers M 144:233 Mr '42

War finance; Sir Kingsley Wood's budget speech and documents issued with it. Economist 142:528-32 Ap 18 '42

India

India's third war budget. For Comm W 7: 17-18 Je 6 '42

Ireland

Irish budget. Economist 142:756-7 My 30 '42

New Zealand

New Zealand's budget. Economist 141:594 N 15 '41

Persia

Budget smaller for 1942-43. For Comm W 8:19 Jl 18 '42

Peru

Budget for 1942. For Comm W 6:17 Mr 21 '42

Portugal

Portugal's budget estimates. Economist 142: 108 Ja 24 '42

Spain

Ordinary budget for 1942. For Comm W 7: 13 Ap 11 '42

Switzerland

Switzerland's budget difficulties. Economist 141:788-9 D 27 '41

United States

Federal budget system in operation. E. E. Naylor. 306p bibliog(p294-6) pa $3 Hayworth ptg. co, Washington, D.C. '41

Federal finance, 1941. Survey of Cur Business 22:54-60 F '42

$59 billion budget for 1943; President Roosevelt's annual budget message before Congress. Comm & Fin Chr 155:97+ Ja 8 '42

Fiscal problem. Nat City Bank p17-20 F '42

Mounting problem of the deficit. Nat City Bank p67-8 Je '42

Text of the President's budget message to Congress. Comm & Fin Chr 155:226-8 Ja 15 '42

There never was a budget like this! graphs. Business Week p17 Ja 17 '42

Treasury finance and the new budget. Fed Res Bul 28:95-101 F '42

War budget; fiscal policy represents all-out effort. Index 22 no 1:1-10 [Mr] '42

BUDGET, Business

Application of standard costs to an operating budget; Crown can company, Philadelphia. H. C. Heiser. N A C A Bul 24:121-36 O 1 '42

Budget gives profit picture in half a minute; Stanley manufacturing company, Dayton. R. J. Rahn. Factory Management 100:97-9 O '42

Meet Mr Budget; simple manual points out that each foreman should plan his own budget. D. Purves. Factory Management 100:97+ Ja '42

BUDGET, Household

Budgets for low income families. 43p bibliog(p42-3) Baltimore council of social agencies, 353 Equitable bldg, Baltimore '40

Central Trust advertises a budget control plan. Bankers M 144:439-40 My '42

Clothing and house furnishings allowances; prices for San Francisco, March, 1942; supplement to Quantity and cost budgets for three income levels, Quantity and cost budget for dependent families or children, and Quantity and cost budget for a single working woman. 49 numb l pa 50c Univ. of California press, Berkeley '42

Family budget and standard of living. H. S. Koster. Trusts & Estates 74:279 Mr '42

Family expenditures for clothing, five regions. D. Monroe and others. il diags map U S Agric Misc Pub 428:1-387 '41

Family expenditures in the United States. H. Kneeland, S. E. Fine and J. H. Murray. 209p U.S. National resources planning bd, Washington; 50c Supt. of doc. '41

Keep family budget, is advice of loan company advertising; Household finance corporation. il Ptr Ink 201:26 O 16 '42

Lost $40 billion; more flowing into high salaries, but most of pressure on prices is coming from those with $5,000 and less. Fortune 26:74-9 Ag '42

Money disbursements of wage earners and clerical workers in thirteen small cities, 1933-35. F. M. Williams and G. S. Weiss. diags U S Bur Labor Statistics Bul 691:1-173; 20c Supt. of doc. '42

Money disbursements of wage earners and clerical workers, 1934-36; summary volume. F. M. Williams and A. C. Hanson. U S Bur Labor Statistics Bul 638:1-401, pl 1-11; pa 55c Supt. of doc. '41

Quantity and cost budget for dependent families or children; prices for San Francisco, March, 1942; including Adequate food at low cost, by R. Okey and E. H. Huntington. 37p pa 25c Univ. of California press, Berkeley '42

Quantity and cost budget for four income levels. 108 numb l; Supplement: Clothing budgets, prices for San Francisco, Mar. 1941. 35 numb l Univ. of California press, Berkeley '41

Quantity and cost budgets for three income levels; 1, Family of an executive; 2, Family of a white-collar worker; 3, Family of a wage earner; prices for San Francisco, March, 1942. 95p pa 85c Univ. of California press, Berkeley '42

Why not victory budgets? H. S. Koster. Trusts & Estates 74:450 My '42

See also

Cost of living

BUDGET, Municipal

Municipal budget procedure and budgetary accounting. 100p pa $1 Municipal finance officers assn. of the U.S. and Canada, 1313 E. 60th st, Chicago '42

Public works programming in relation to post-emergency problem. W. S. Parker. N E Water Works Assn J 56:192-9; Discussion. F. A. Barbour. 199-201 Je '42

BUDGET, Personal

How to make your budget balance. E. C. Harwood and H. Fowle. 3d ed 143p $1 Am. inst. for economic research, Cambridge, Mass. '41

Millions who handle billions; consumer credit and budgeting service. R. H. Whitehead. Bankers M 144:208-10 Mr '42

Quantity and cost budget for a single working woman; prices for San Francisco, March, 1942. 14 numb l pa 15c Univ. of California press, Berkeley '42

BUDGET, State

Alabama's balancing budget. P. E. Alyea. 141p Bur. of public administration, Univ. of Alabama, University, Ala. '42

Public works programming in relation to post-emergency problem. W. S. Parker. N E Water Works Assn J 56:192-9; Discussion. F. A. Barbour. 199-201 Je '42

BUDWORMS, Spruce. See Spruce budworms

BUENOS AIRES

Buenos Aires. 31p pa 5c Pan American union, Washington, D.C. '38

Rapid transit

Coördinated transport at Buenos Aires. Pub Util 30:178-81 Jl 30 '42

BUENOS AIRES (province)

See also Bonds, Government—Buenos Aires (province)

BUFFALO, New York

Historical notes on Buffalo. il Chem & Eng N 20:785-8 Je 25 '42

See also

Housing—Buffalo

Industries

Buffalo makes the tools for the chemist. E. R. Riegel. il Chem & Eng N 20:841-3, 864-5, 1167 Jl 10, S 25 '42

Rapid transit

IRC and ODT, in Buffalo; an unbeatable combination. il Bus Transportation 21:316-17 Jl '42

Sewerage

Buffalo sewage works has modern laboratory. G. E. Symons. il plan Civil Eng 12:95-8 F '42

Third year of sewage treatment operation. C. R. Velzy, J. W. Johnson and G. E. Symons. bibliog flow sheets il Pub Works 73:27-8+ Ja; 26-30 F '42

BUFFALO forge company

Buffalo makes the tools for the chemist. E R. Riegel. il Chem & Eng N 20:841-3, 864-5 Jl 10 '42

BUFFALO insurance company

Company analysis. Spectator (Property ed) 8:32-3 S 3 '42

BUFFALO museum of science, Buffalo, New York

Science briefed for busy people. C. E. Cummings. il Chem & Eng N 20:904-7 Jl 25 '42

BUFFALO, Niagara and eastern power corporation

Suspends dividends. Comm & Fin Chr 156:1014 S 21 '42

Values behind a utility preferred. M. Pescatello. Barron's 22:8 N 9 '42

BUFFER mixtures

Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42

Provisional pH values for certain standard buffer solutions. R. G. Bates and others. bibliog J Research Nat Bur Stand 29:183-90 S '42

Region of maximum buffer capacity. B. Park. J Chem Educ 19:171 Ap '42

BUFFING. See Polishing

BUGLES. See Trumpets

BUILDING

Builder's quiz; how do you stand? diags Am Bld 64:68-9 F '42

Building construction; materials and types of construction. W. C. Huntington. 2d ed 674p $6 Wiley '41

Building design as an art. J. W. Pickworth. Civil Eng 12:539-40 O '42

Built on schedule and below estimate; steel-frame concrete and brick warehouse built by Cincinnati district, U.S. Engineers. il Eng N 129:482-3 O 8 '42

Cable-supported roof for grain storage. il Eng N 127:882-3 D 18 '41

Civil engineers and the building industry; conference by Institution of civil engineers. Engineer 174:186-8, 241-2 S 4, 18 '42

Condensation of moisture and its relation to building construction and operation. F. B. Rowley, A. B. Algren and C. E. Lund. 69p Univ. of Minnesota, Engineering experiment station, Minneapolis '41

Consair plant nears completion at Ft. Worth; use of Fiberglas. T. E. Lloyd. il Iron Age 148:86-7 N 27 '41

Conserving metals with stone and glass veneers; building facings; with time-saver standards. F. G. Lopez, jr. diags Arch Rec 90:92-6 D '41

Construction of smaller buildings; a building types study; with time-saver standards. W. H. Hayes. il diags Arch Rec 91:67-82 My '42

Construction reports. Published in weekly numbers of Engineering news-record

Construction techniques changed by camouflage requirements. il Eng N 128:989 Je 18 '42

Fixed sash and air conditioning bar noise, dirt; Business Institute building, Milwaukee, Wis. il plans Arch Rec 90:89 D '41

House construction details. N. L. Burbank. 2d ed 313p $3 Simmons-Boardman '42

How to conserve materials; Westinghouse construction program. G. H. A. Parkman. il Factory Management 100:B44-B45+ Ap '42

Insulating blackout plants; bomber assembly plants at Fort Worth, Texas, and Tulsa, Oklahoma. H. T. Rutledge. il Sci Am 165:328-9 D '41

New building technique may be a solution for post-war industry; converting war-time factories to mass production of light-weight building units. H. W. Corbett. Arch Rec 90:26 D '41

Protecting old hospital services big problem in new construction; Delaware hospital, Wilmington. il plan Eng N 127:686-7 N 13 '41

Research laboratories building; new Bell telephone laboratory. il diag Eng N 128:344-7 F 26 '42

Structural economies in remodeling; with time-saver standards. C. T. Sigman. diags Arch Rec 91:52-8 F '42

Total war means all-out conservation. diags plans Arch Rec 91:41-8 Ja '42

Trends in home building practice. diags Am Bld 64:41-3 Ja '42

Two keys to war plant speed; construction roads and local materials. il Eng N 129:285-9 Ag 27 '42

Warehouse without priority materials. il Eng N 128:473 Mr 26 '42

Wartime building construction. 151p $4 Chemical pub. co. '42

What does all this mean nationally? check list and portfolio of America's building need. il diags plans Arch Rec 90:48-80 D '41

See also

Air conditioning
Air raids and building
Architecture
Attics
Beams
Brick construction
Bridges
Building materials
Building trades
Chimneys
Cold storage lockers
Concrete, Reinforced
Concrete construction
Concrete houses
Construction equipment
Contractors
Dampness in buildings
Earthquakes and building
Engineering
Factories
Fireproof construction
Floors
Foundation soils
Foundations
Framing (building)

BUILDING—See also—*Continued*

Gas holders
Girders
Grouting
Heating
Home ownership
Hot water supply
Hotels
Houses, Prefabricated
Masonry
Mechanical equipment of buildings
Office buildings
Painting, Industrial
Paneling
Piers
Piles and pile driving
Plaster and plastering
Plumbing
Public works
Railroads—Buildings and structures
Roofs
Scaffolding
School buildings
Sheet metal work, Architectural
Shipbuilding
Soundproofing
Steel construction
Steel houses
Strains and stresses
Strength of materials
Theaters
Trusses
Underground construction
Ventilation
War and building
Waterproofing
Wind pressure
Windowless construction
Windows
Wood construction

Cost

Building costs up 18% since war started. Barron's 22:13 Mr 16 '42
Construction costs, 1941. Eng N 128:143-4 Ja 15 '42
Construction costs, 1942. Eng N 128:667-70+ Ap 23 '42
Construction industry to be covered by price regulation. Eng N 128:965 Je 18 '42
Current trends of building costs (cont). C. Shute. Arch Rec 90:37-8 N '41; 91:33-4 Ja; 33-4 Mr '42
Demountable defense house; American houses, inc.; planned to prove defense housing standards wastefully high. il diags plans Arch Forum 76:156-60 Mr '42
Five rooms and lot at $5,200; average house in a sampling of 160,000; FHA experience. Arch Forum 75:416-17 D '41
Garage, shop buildings, residences, Anderson Ranch dam; unit prices. Eng N 128:523 Ap 2 '42
How typical home building costs as found in Detroit have increased since 1939. R. E. Sangster. Am Bld 64:47-8 Ja '42
It's cheaper to use clay products says U.S. Engineer's office. diags Brick & Clay Rec 101:20 Ag '42
Unit costs of school buildings. H. H. Bormann. 83p bibliog(p82-3) $1.60 Teachers college '41
Yes, it is possible to build a brick home for $6,000, including the lot; construction outline and cost breakdown. il plans Brick & Clay Rec 99:28-9 N '41

Estimates

Accurate home estimating. T. A. Roberts and R. A. Roberts. 285p $3 Bruce pub. '42

Finance

Construction contracts awarded, by ownership, monthly Jan. 1936-Nov. 1941. Fed Res Bul 28:62 Ja '42 [cont monthly]
Construction financing, 1941. Eng N 128:137 Ja 15 '42
Post-war construction. T. S. Holden. Trusts & Estates 75:18-19 Jl '42

See also

Building and loan associations
Building trades—Finance
Federal housing administration
Federal savings and loan associations
Home ownership—Finance
Housing finance

Heating aspects

Attic temperatures, ventilation and heat losses. P. D. Close. diags Heating-Piping 14:694-8 N '42
Fuel savings of insulation told; abstract. P. D. Close. Am Bld 64:72 My '42
Heat gain through walls and roofs as affected by solar radiation. F. C. Houghten and others. bibliog Heating-Piping 14:306-12; Discussion. 312-13 My '42
Heat loss studies in four identical buildings to determine the effect of insulation. D. B. Anderson. il plans Heating-Piping 14:499-508 Ag '42
Heat loss through basement walls and floors. F. C. Houghten and others. il diags Heating-Piping 14:69-74 Ja '42; Abstract. Sheet Metal Worker 33:58-9 Ag '42; Discussion. Heating-Piping 14:271-2 Ap '42
Low transmission of heat and cold in walls of concrete masonry. Concrete 50:14-15+ N '42
Metal saving with insulation. Sheet Metal Worker 33:31 Je '42
Periodic heat flow in building walls determined by electrical analogy method. V. Paschkis. diags Heating-Piping 14:133-8 F '42; Discussion. 14:201-3 Mr '42
Post-war housing; possibilities of gas and coke for heating; architectural design and heating. T. Potterton. diag plans Gas J (Lond) 238:318+ My 27 '42
Saving fuel in heating; heat loss and building structure survey. J. F. Collins, jr. Heat & Ven 39:37-42 Je '42
Solar houses. il Business Week p42 D 27 '41
WPB issues wartime rules for house heating. charts maps Arch Rec 91:63-6 Ap '42

See also

Cooling—Tables, calculations, etc.

Rapid construction

Alien camp built in 23 days. il Eng N 129:358-9 S 10 '42
Army cantonment built in sub-zero weather. D. B. Niederlander. il Civil Eng 12:187-90 Ap '42
Big arms plant built in congested area. il Eng N 128:842-5 My 21 '42
Camp facilities for 8,000 Japs completed in 17 days. il Eng N 128:952-3 Je 11 '42
Competition speeds building; charts stimulate and speed construction at a U.S. army air depot. il Eng N 129:446 S 24 '42
Construction expedients on warehouses; brick walls, precast concrete lintels, wood frame windows, and timber trusses. il Eng N 129:20-1 Jl 2 '42
Estimated building schedule; 9 months; how the job was done in 26 weeks. il Eng N 128:886-7 My 28 '42
Evansville, Ind. tackles war housing; nineteen-day homes resulted. il Am Bld 64:32-3 Jl '42
Factory construction; new warspeed method of concrete roof and girder construction. il Arch Forum 77:89-92 O '42
Fast truss fabrication; mid-western ordnance plant. il Eng N 129:440-1 S 24 '42
FPHA jig tables for field assembly. il diags plans Arch Forum 76:199-203 Ap '42
Fifty-six houses a day by factory fabrication; FPHA project at Portsmouth, Virginia. il plan Arch Rec 92:48-9 Jl '42
Houses for defense; in Erie, Pa. Contractor Trimble builds his 500 foundations like highways, frames his walls on the floor. il Arch Forum 75:327-9 N '41
Housing built on the double-quick; navy housing project. G. Michelson. il plan Eng N 128:478-80 Mr 26 '42; Same. Sci Am 167:62-3 Ag '42
How Stackhouse speeds title VI production. il plans Am Bld 63:53-5 D '41
How we did it before; rapid construction and employment management in building Navy and munitions building, Washington, D.C. in 1918. il Eng N 129:236-8 Ag 13 '42
Levitt & sons of Virginia set new standards in Title VI war homes; Oakdale Farms project will be 90% rented to naval officers. J. B. Mason. il diags plans Am Bld 64:48-53+ Je '42
Pier in time; Scandinavians and Finns build pier in Bethlehem steel company's yards. A. D. Rathbone, 4th. il Sci Am 167:14-15 Jl '42
Power saws speed Norfolk victory homes; Monticello village, fast moving title VI victory home job. il plans Am Bld 64:64-7 Ap '42

BUILDING—Rapid construction—*Continued*

Prefabrication rushed with power tools; GBH-way homes are shop-built with modern equipment in Walnut, Ill. il plan Am Bld 64:80-1+ Ap '42
Shops on wheels speed Tobin's defense homes. R. B. Konikow. il plans Am Bld 64:56-8+ F '42
Site assembly methods speed housing construction. il Eng N 128:18 Ja 1 '42
Speed and conservation are paramount on Washington's temporary office buildings. il Eng N 128:744-5 Ap 30 '42
Structural panels build quick homes for war workers. B. L. Johnson. il diags plans Am Bld 64:40-3+ S '42
3,000 permanent units, rental; Linda Vista, San Diego, Calif. il plans Arch Forum 76: 277-80 My '42
U.S.O. centers built on fast schedule. il diag plans Eng N 128:554-6 Ap 9 '42
Wall sections for war homes built in local lumber yard, Chester, Pa. il Am Bld 64: 65+ Mr '42
War-front type barracks built in record time. il Eng N 129:90-1 Jl 16 '42
Warehouse designed to speed construction. il Eng N 128:622-4 Ap 23 '42

See also

Houses, Prefabricated

Repair and reconstruction

C.&N.W. gives "400" aspect to its Milwaukee station. il plan Ry Age 112:814-18 Ap 25 '42
Help farm program by rebuilding barns with clay tile walls. J. M. Anderson. il Brick & Clay Rec 100:24-5 Je '42
How to stay in business during the war; 101 jobs you can do at a profit under L-41. il Am Bld 64:26-8 Jl '42
Industrial plant buildings; what and how in upkeep. P. M. Moore. il Factory Management 100:B54-B55+ Ap '42
Monolithic concrete restores deteriorated cathedral; St Joseph's cathedral, Sioux Falls. R. A. Perkins. il Concrete 49:4-5 D '41
Novel idea keeps builder in business; stays on job with his house doctor. il Am Bld 64:46-7 Ag '42
Official information on current FHA loans. T. Zener. Bankers Mo 59:456-7 O '42
Remodeling and repair figures for 1941; loans reported for insurance under Title I, National housing act. Am Bld 64:73 My '42
Reparation works. A. R. Warnes. diag Chem & Ind 60:887-9 D 20 '41; Discussion. 61: 11-13 Ja 3 '42
Wartime maintenance and repair of buildings. il Am Bld 64:50-1+ O '42
Welding for the repair of steel-framed buildings. diags Engineer 173:116-18 F 6 '42

See also

Bridges—Reconstruction
Buildings, Remodeled
Factories—Reconstruction
Floors—Repair
Remodeling (architecture)

Safety aspects

In the path of the storm; much can be done to enable industrial buildings to weather the blow. E. B. Gerry. il Nat Safety N 45:20-1+ F '42

Safety measures

Anonymous heroes of war production. W. S. Griswold. il Nat Safety N 45:18-19+ F '42
Defense plant sets safety record; Kankakee ordnance plant. Nat Underw 45:21 N 20 '41; Correction. 45:22 N 27 '41
Insurance company builds a home; construction of Employers Mutuals' new home office building, Wausau, Wis. il Nat Safety N 45:38+ My '42
Safety in powder plant construction. il Eng N 128:404-6 Mr 12 '42
Safety requirements for excavation, building, construction. 90p U.S. Engineer dept, Washington, D.C. '42
Shows that war plant building can be safe. L. U. Byerly. Nat Underw 46:22 Ap 16 '42

Specifications

Specification standards for government work. H. R. Sleeper. Arch Rec 91:61-4 Ja; 61-4 F; 63-6 Mr; 92 Ap '42

Standards

Association offers service to builders on coordination of building sizes. il diag Ind Stand 13:117-18 My '42
Building's post-war pattern. Arch Forum 75:353-64 N '41
Demountable defense house; American houses, inc.; planned to prove defense housing standards wastefully high. il diags plans Arch Forum 76:156-60 Mr '42
Four-inch building unit is success in Canadian prefabrication project. il Ind Stand 13:67-9 Mr '42
Great Britain organizes for post-war building. il Ind Stand 13:243-6 O '42
Housing standards; speculations about the postwar house. plans Arch Forum 77:138-9 S '42
New architectural elements; house of 194x. il plans Arch Forum 77:124-7 S '42
Proposed live-load reduction formula for buildings. C. W. Barber. Civil Eng 12:194-5 Ap '42; Discussion. J. Jones. 12:278 My '42
Service and circulation core for 194x; house of plastics or aluminum. il diags plans Arch Forum 77:90-1 S '42
Specification standards for government work. H. R. Sleeper. Arch Rec 91:61-4 Ja; 61-4 F; 63-6 Mr; 92 Ap '42
Standards versus essential space. G. Howe, O. Stonorov and L. I. Kahn. il plans Arch Forum 76:308-11 My '42

See also

Building laws and regulations
Building materials—Standards
Concrete construction—Standards

Statistics

Building construction activities enter war phase during 1941; building operations by states and cities, 1934-1941. Comm & Fin Chr 155:731-4 F 17 '42
Building construction, 1940. U S Bur Labor Statistics Bul 693:1-140; pa 20c Supt. of doc. '41
Building in 140 metropolitan areas, first half 1941. Am Bld 64:48-9 Ja '42
Building industry deserves merit award; chart showing construction by types, first and second half-years of 1941-2, with totals for each year. Am Bld 64:39 O '42
Building permit survey, 1939; v 1, New England cities. U S Bur Labor Statistics Bul 689:1-85; pa 15c Supt. of doc. '41
Building permit values by cities. Published in monthly numbers of Dun's statistical review; summary in Dun's review
Construction contracts awarded, by types of construction, monthly Jan. 1940-Oct. 1941, and by districts, Nov. 1940 and 1941. Fed Res Bul 28:62 Ja '42 [cont monthly]
Construction, 1941. Survey of Cur Business 22:34-8 F '42
Construction volume forecast. Sheet Metal Worker 32:50 D '41
ENR construction near six billion, 1941. Eng N 128:138-41 Ja 15 '42
Estimated construction activity in continental United States, 1939-42. C. A. Trump. Monthly Labor R 55:601-5 S '42
Gross flow of finished commodities and new construction, 1929-41. W. H. Shaw. Survey of Cur Business 22:13-20 Ap '42
Indexes of new dwelling units provided and permit valuation of building construction; revised series, Sept. 1929-Jan. 1942. Survey of Cur Business 22:18, S-4 Mr '42
January permit valuations and building construction in United States. Comm & Fin Chr 155:958 Mr 5 '42 [cont monthly]
New dwelling units in nonfarm areas, 1940 and 1941. S. Jaffe. Monthly Labor R 54: 1139-48 My '42
New dwelling units in nonfarm areas, first quarter of 1942; comparison with first and fourth quarter of 1941. Monthly Labor R 55: 94-100 Jl '42

BUILDING—Statistics—*Continued*

New dwelling units in nonfarm areas, first half of 1942. G. Schumm. Monthly Labor R 55:606-12 S '42

New dwelling units in selected defense areas, 1940 and 1941. Monthly Labor R 54:1149-53 My '42

1941 construction greatest in 13 years. Comm & Fin Chr 155:351 Ja 22 '42

Pacific states lead in home construction. Comm & Fin Chr 154:1346 D 4 '41

Quarterly estimates of construction; with table giving new construction activity in the U.S. by function and ownership, 1939-1942. B. H. Klein. Survey of Cur Business 22:24-6 My '42

Summary of building construction in principal cities, January 1942. Monthly Labor R 54: 779-81 Mr '42 [cont monthly]

Volume of construction contracts in 1941 exceeds six billion dollars. Concrete 50:45 F '42

War and the building outlook for 1942. Am Bld 64:36-40 Ja '42

See also

Building trades—Statistics

Terminology

Definitions of building terms. Eng N 129: sup184+ O 22 '42

Canada

Basis of construction control; how the control of prices will affect construction operations. C. B. Jackson. Water & Sewage 79:22+ D '41; Same. Roads & Bridges 80:56+ Ja '42

Building operations, by provinces and cities, 1934-1941; tabulation. Comm & Fin Chr 155: 734 F 17 '42

Chicago

Sixty years a builder; the autobiography of Henry Ericsson. H. Ericsson and L. E. Myers. 388p $3.50 A. Kroch and son, Chicago '42

Trend of building costs in Chicago. M. Fuhrer. Eng N 128:733 Ap 23 '42

Cincinnati

Building permits, trends and distribution, Cincinnati, 1908-1938. J. A. Quinn, E. Eubank and L. E. Elliot. 82p pa $1 Ohio state univ, Bur. of business research, Columbus '41

Great Britain

Advisory council for works and buildings in Great Britain. Monthly Labor R 53:1158-9 N '41

Britain creates post-war building Directorate. For Comm W 7:25 Je 20 '42

British emergency buildings made from precast concrete. Eng N 128:988 Je 18 '42

Building defense plants in England. il diag Manuf Rec 111:24-5+ Jl '42

Construction for U.S. armed forces poses biggest British building problem. Eng N 129: 336 S 10 '42

Economy in building materials; memoranda by committee on building materials standardisation of the Ministry of works and planning. Engineering 154:305 O 16 '42

Engineer and post-war reconstruction; second conference arranged by Institution of civil engineers. Engineer 174:323 O 16 '42

Great Britain organizes for post-war building. il Ind Stand 13:243-6 O '42

More concrete being used in Britain. Eng N 129:365 S 10 '42

Wartime building construction. 151p $4 Chemical pub. co. '42

Latin America

Latins learn safety when army builds bases. T. S. Crandall. il Nat Safety N 46:72-3 Jl '42

New England

Building permit survey, 1939; v 1, New England cities. U S Bur Labor Statistics Bul 689:1-85; pa 15c Supt. of doc. '41

Southern states

Construction record in 1941. Manuf Rec 111: 33+ Ja '42

South's construction contracts high for seven month period. il Manuf Rec 111:34-5 Ag '42

United States

Biggest year in construction history predicted for 1942; wide range of construction permitted under Conservation order L-41. Concrete 50:14, 16 My '42

Blanket approval permits planned by WPB for miscellaneous building. Eng N 129: 403 S 24 '42

Building construction activities enter war phase during 1941; building operations by states and cities, 1934-1941. Comm & Fin Chr 155:731-4 F 17 '42

Building in the war. il Brick & Clay Rec 100:23-4 Ja '42

Building's post-war pattern; by the editors of Forum, and a panel of 200 advisory editors. Arch Forum 75:139-51, 353-64 S, N '41; 77:70-81 O; 70-2 N '42

Chem & Met report on war-time construction in chemical process industries. Chem & Met Eng 49:99-106 Jl '42 [reprints 25 cents]

Construction and national defense; extracts from addresses at Construction industry conference. Sheet Metal Worker 32:31-2 D '41

Construction during the war, and after. W. C. Bober. Barron's 22:41-2 Ja 12 '42

Construction estimates increased for 1942. Barron's 21:12 D 29 '41

Construction estimates soar. Arch Rec 91: 5+ Ja '42

Construction freeze. Arch Forum 76:sup2 My '42

Construction hits stride in war effort. Eng N 128:136-44 Ja 15 '42

Construction in 1942. T. S. Holden. Concrete 50:8 Mr '42

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Construction industry priorities. Sheet Metal Worker 33:34, 36, 38 My; 54-6 Je '42

Contracts and capital; news of construction volume, new capital, FHA mortgages. Published in weekly numbers of Engineering news-record

Current projects; examples of vital industrial work concerned with the war effort. il diags plans Arch Rec 91:41-52 Mr '42

Discontinuance of nonessential construction. Monthly Labor R 54:1355-6 Je '42

Government revises its estimates for 1942 defense and non-defense construction. Am Bld 64:59+ F '42

Growing materials shortage theme of construction conference. Eng N 127:697-8 N 13 '41

New construction curtailed by WPB conservation order. Eng N 128:577+ Ap 16 '42

News from Washington on defense activities. K. K. Hoyt. Published in monthly numbers of Architectural record

1942 construction estimates again boosted. Am Bld 64:66 My '42

Opportunities under title VI. il diags plans Am Bld 64:48-59 Mr '42

Past year was the biggest in construction history. Eng N 128:55 Ja 8 '42

Plan to hold 1943 building to two-thirds of 1942 rate. Eng N 129:597-8 O 29 '42

Plant construction criteria established. Oil Paint & Drug Rep 141:5 Je 8 '42

Post-war construction. T. S. Holden. Trusts & Estates 75:18-19 Jl '42

Quarterly estimates of construction; with table giving new construction activity in the U.S. by function and ownership, 1939-1942. B. H. Klein. Survey of Cur Business 22:24-6 My '42

Review and forecast, 1941-1942. Eng N 128: 85-7 Ja 15 '42

See high rate of construction activity extending through 1942. Concrete 50:6 Ja '42

Special section on war buildings of 1942. il diags plans Eng N 129:564-94 O 22 '42

BUILDING—United States—*Continued*
Summary of building construction in principal cities, January 1942. Monthly Labor R 54:779-81 Mr '42 [cont monthly]
Survey of war building to be done in the months ahead. il Am Bld 64:58-60+ Ap '42
Value of public and private new construction by type, 1940-1942; chart. Survey of Cur Business 22:2 My '42
War absorbs 80% of construction; abstract. T. S. Holden. Rock Prod 45:46 Mr '42
War and the building outlook for 1942. Am Bld 64:36-40 Ja '42
War expected to step up defense construction work. Eng N 127:901-2 D 25 '41
War factories symbolize 1941 building. J. I. Ballard. il Eng N 128:97-8 Ja 15 '42
WPB bars non-essential building construction; materials to be diverted to war purposes. Comm & Fin Chr 155:1557 Ap 16 '42
WPB building order; interpretations of conservation order, issued April 9. Comm & Fin Chr 155:2316; 156:1090 Je 18, S 24 '42
War to spur new building. Steel 110:412-14 Ja 5 '42
See also
Building trades—
United States

BUILDING and air raids. See Air raids and building

BUILDING and earthquakes. See Earthquakes and building

BUILDING and loan association buildings
Union federal savings and loan building, Evansville, Ind. il plan Arch Rec 91:51 F '42

BUILDING and loan associations
Building loans up in 1941. Comm & Fin Chr 155:960 Mr 5 '42
Federal home loan bank system and its relation to the savings and loan field. J. A. White. Comm & Fin Chr 156:531 Ag 13 '42
Home information service aids war housing drive; Manchester federal savings and loan association. il Burroughs Clearing House 26:5-6 Ag '42
Insured savings, loan associations in 1941. O. Kreutz. Comm & Fin Chr 155:108 Ja 8 '42
Loan associations meeting new problems. L. Tomlinson. Barron's 22:7-9 Je 8 '42
Midwest savings & loan associations; sources of new loans and income are continuing. H. Russell. Barron's 22:12-13 Mr 16 '42
Mortgage lending still active; savings and loan associations' new business holding close to 1940 level. L. Tomlinson. Barron's 22:9 S 14 '42
Public relations manual for savings and loan associations. 87p pa $1 Federal home loan bank of Portland, Pacific bldg, Portland, Ore. '41
Savings and loan association as a refuge for trust funds. G. Harold. J Business 15:166-83 Ap '42
Savings and loan associations. F. W. Walters. Mag of Wall St 69:210-11+ N 29 '41
Savings and loan associations assets grow in 1941. Comm & Fin Chr 155:1782 My 7 '42
Savings and loan associations becoming fewer; larger units. F. W. Catlett. Comm & Fin Chr 155:114 Ja 8 '42
Savings and loan associations in war. M. Bodfish. Barron's 22:32-3 Ja 12 '42
Savings and loan outlook in wartime. L. Tomlinson. Barron's 21:7-8 D 1 '41
Savings and loan portfolios in sound condition; dependability of assets characterize holdings. Comm & Fin Chr 156:1434 O 22 '42
Savings and loan wartime problems. M. Bodfish. il Burroughs Clearing House 26:16-18+ Mr '42; Abstract. Trusts & Estates 74:609-10 Je '42
Savings-loan activity in first half, 1942. Comm & Fin Chr 156:533 Ag 13 '42
Savings-loan assets show net increases as of June 30, 1942. Comm & Fin Chr 156:1104 S 24 '42
Savings loan associations disburses in 1941. F. S. Cannon. Comm & Fin Chr 155:1437 Ap 9 '42
Savings, loan associations dividends $81,600,000, first half of 1942. Comm & Fin Chr 156:112 Jl 9 '42
Savings-loan associations strong in 1941. O. R. Kreutz. Comm & Fin Chr 155:1558 Ap 16 '42
Savings-loan associations war bond buying; aids war financing; controls inflation tendency. F. S. Cannon. Comm & Fin Chr 156:1435 O 22 '42
Savings, loan dividends highest in twelve years. Comm & Fin Chr 155:9 Ja 1 '42
Should savings and loan associations make personal loans? S. Stern; R. R. Glenn. Bankers M 144:539-40 Je '42
Status of savings and building and loan associations. M. Bodfish. Comm & Fin Chr 156:530+ Ag 13 '42
Why save or invest in a savings and loan association? H. Russell. Comm & Fin Chr 155:2024 My 28 '42

Great Britain

Building society liquidity. Economist 143:21 Jl 4 '42

BUILDING contracts
Army's new architect-engineer contract. R. R. Dickey. Arch Rec 91:16 Ap '42
Corps of engineers abandons formal competition on bids. Eng N 128:893 Je 4 '42
Government contracts and contacts. il Arch Rec 91:42-3 My '42
How an A-E-M contract works; details of architect-engineer manager organization. Eng N 129:179-82 Jl 30 '42
New contract form becomes standard in War department; architect-engineer-manager form. Eng N 128:297-8 F 19 '42
Place construction industry under price regulation. Eng N 129:613 N 5 '42
See also
Contractors

BUILDING cycles
Housing policy and the building cycle. L. Grebler. R Econ Statis 24:66-74 My '42

BUILDING failures
Part of old brick and concrete building collapses from overloading. il Concrete 50:4-5 S '42

BUILDING fittings
Air conditioning metal layout. J. J. Kaberlein. 308p $3.75 Bruce pub. '41
Ceramics aid wartime construction; building materials and equipment. il Cer Ind 38:58, 75-7 Ap '42
Plastics competition award to Russell & Erwin mfg. co.; push and pull bars for entrance doors. il Mod Plastics 19:68-9 N '41
Specification standards for government work: builders' hardware. H. R. Sleeper. Arch Rec 91:64 Mr '42
See also
Sheet metal work,
Architectural

BUILDING laws and regulations
Building squeeze; ceiling on residential construction is cut from $500 to $200. Business Week p22 S 12 '42
Civilian construction cut. W. J. Casey. Arch Rec 92:7 O '42
Construction for building operators. Arch Rec 92:12 O '42
Construction industry priorities. Sheet Metal Worker 33:34, 36, 38 My; 54-6 Je '42
Further building restrictions ordered; War production board amends L-41. Am Bld 64:43+ O '42
Home building codes being relaxed. Am Bld 64:76 F '42
New plant curbs; WPB acts to put brakes on unnecessary war construction. Business Week p19 O 31 '42
War board's building conservation order. Am Bld 64:39-41+ My '42
See also
Housing laws

Canada

Stricter control over construction and the installation of machinery and equipment in plants. Roads & Bridges 80:66+ F '42

BUILDING laws and regulations—*Continued*

Chicago

Wartime code. Arch Forum 76:140 Mr '42

New York (city)

New York city building control, 1800-1941. J. P. Comer. 289p $3.25 Columbia univ. press '42

BUILDING loans

Remodeling and repair figures for 1941; loans reported for insurance under Title I, National housing act. Am Bld 64:73 My '42

See also

Building and loan associations
Federal housing administration
Home loan banks
Home ownership—Finance
Housing finance
Mortgages
Reconstruction finance corporation

BUILDING lots. See Building sites

BUILDING materials

All-America package competition; award to Marsh wall products, inc.; sales-sample kit for promoting Marlite, pre-finished wall paneling. il Mod Packaging 15:174-5+ Ap '42

Architects speak their minds on priorities system and on government attitude toward the profession. Arch Rec 90:10+ D '41

Building construction; materials and types of construction. W. C. Huntington. 2d ed 674p $6 Wiley '41

Building's part is big; importance to all-out defense. H. J. Payne. Arch Rec 90:41-3 N '41

Ceramics aid wartime construction; building materials and equipment. il Cer Ind 38:58, 75-7 Ap '42

Chemistry of engineering materials. R. B. Leighou. 4th ed 645p $4.50 McGraw-Hill '42

Conservation of critical materials in construction. J. H. Ehlers. il Civil Eng 12: 374-7 Jl '42

Construction; British use of Lignocrete. For Comm W 7:21 My 2 '42

Construction of smaller buildings; with time-saver standards. W. H. Hayes. il diags Arch Rec 91:70-4 My '42

Diatalum dwellings; new house of 194x. il diags plans Arch Forum 77:108-11 S '42

Economy in building materials; memoranda by committee on building materials standardisation of the Ministry of works and planning. Engineering 154:305 O 16 '42

Employment and materials, 1941. Eng N 128: 142 Ja 15 '42

Fabric house; Roll-fab; pipe and fabric construction of 194x. il diags plans Arch Forum 77:87-9 S '42

Field inspectors' check list for building construction. U S Nat Bur Stand, Building Materials and Structures Report 81:1-68; pa 20c Supt. of doc. '42

Gadgets for 194x. il diags plans Arch Forum 77:112-13 S '42

Getting along with less of critical materials. Am Bld 64:50+ Jl '42

Go easy on the metals; Nelson plans metals limitation not stop building order. Am Bld 64:45 F '42

Houses without priorities; case for the over-$6000 house. il diags plans map Arch Forum 75:383-92 D '41

Housing curb explained. S. W. Jones. Heat & Ven 38:63+ N '41

Housing priorities. N. Strunk. J Land & Pub Util Econ 17:484-8 N '41

How refineries conserve critical materials. Chem & Met Eng 49:93-4 O '42

How to conserve materials; Westinghouse construction program. G. H. A. Parkman. il Factory Management 100:B44-B45+ Ap '42

Material shortages; redesign and substitution. H. L. Whittemore. Eng N 128:112-14 Ja 15 '42

Materials for $6,000 concrete masonry defense house will get priorities; plan. Concrete 49: 11 D '41

Milwaukee plan; new approach to problem of building materials shortages. Dom Eng 158:45+ D '41

Milwaukee priority plan; proposed method of allocating critical materials for non-defense construction; weight calculations of metals used in house construction. Sheet Metal Worker 33:79-81 Ja; 30-2 F '42

New-construction possibilities for chemical plants; Ferroglas construction. il Chem & Eng N 20:1236-7 O 10 '42

New housing critical list; specifies all metal items on which priority assistance will be given for war housing in defense areas. Am Bld 64:90+ Ap '42; Excerpts. Dom Eng 159: 44+ Mr '42; Sheet Metal Worker 33:40+ Ap '42

No priorities for raid shelters; our metal will be used to keep the enemy away. Am Bld 64:85 Mr '42

Nonmetallic minerals needed for national defense. L. J. O'Neill. U S Bur Mines Information Circ 7179:1-13 '41

Plastic structure in building construction. V. E. Yarsley. Electrician 127:318-19 D 5 '41

Rebuilding after five, question of priorities, not authorization. Nat Underw 46:9 S 3 '42

Relieve metal building products by using clay masonry. il diags Brick & Clay Rec 100: 24-7 Ap '42

Replacing metals in construction by using clay products. il Brick & Clay Rec 99:30, 32, 34+ N '41

Resourceful contractor can obtain needed building materials. Concrete 50:28 F '42

Sales sample kit is profitable promotion job for building materials; Marlite, pre-finished wall paneling. il Ind Marketing 27:48, 50+ F '42

Savings possible in the use of metals now on the critical list. H. P. Vermilya. Am Bld 63:93 D '41

SEC reports on building equipment and materials. Comm & Fin Chr 156:175 Jl 16 '42

Soil-cement blocks for walls of university research laboratory; University of Kansas, Lawrence. W. C. McNown. il Eng N 127: 812-13 D 4 '41

Special section on war buildings of 1942. il diags plans Eng N 129:564-94 O 22 '42

Suitability of stabilized soil for building construction. E. L. Hansen. il diags Ill U Eng Exp Sta Bul 333:1-37 bibliog(p35-7) '41 (pa 45c)

Textbook of the materials of engineering. H. F. Moore. 6th ed 454p $4 McGraw-Hill '41

Total war and the little man; Ray Elliott, a builder of White River Junction, Vermont; what's to become of him if he can't get materials? il Fortune 25:78-80, 82, 84 Ja '42

Total war means all-out conservation. diags plans Arch Rec 91:41-8 Ja '42

Use of plastics in building. R. J. Schaffer. bibliog Chem & Ind 61:357-61 Ag 22 '42

War building materials. Barron's 22:5 Je 1 '42

WPB bars non-essential building construction; materials to be diverted to war purposes. Comm & Fin Chr 155:1557 Ap 16 '42

Warehouse without priority materials. il Eng N 128:473 Mr 26 '42

Washington news; substitute materials. W. J. Casey. Arch Rec 92:7+ S '42

See also

Aluminum, Structural
Asbestos
Bricks
Building stone
Cement
Clay products
Concrete
Concrete, Reinforced
Concrete blocks
Concrete slabs
Concrete stone
Cork
Ferron (plastic building material)
Fire resisting materials
Flooring
Glass
Glass, Structural
Gunite
Gypsum
Insulation (heat)
Iron
Limestone
Lumber
Masonry
Mortar
Pisé
Plaster and plastering
Plastic materials, Laminated
Plywood
Pozzuolana
Sheet metal, Enameled
Sheet metal work, Architectural
Sheet steel
Shingles, Asphalt

BUILDING materials—See also—*Continued*
Shipbuilding—Materials
Sound absorbent materials
Steel, Structural
Strength of materials
Terra cotta
Tiles
Wall board
Wood

Advertising

Architecture meets advertising; views of practicing architects (cont). il Arch Rec 90:100-1 N; 100-1 D '41
See also
Gypsum products—Advertising

Heat transmission

See Heat transmission—Tables, calculations, etc.; Insulation (heat)

Manufacture

See also
Brickmaking

Permeability

How to estimate the amount of water vapor transmitted through building walls. Heat & Ven 39:43-7 S '42
New vapor transmission units proposed. Heating-Piping 14:685 N '42

Prices

Inflation spirals. Arch Forum 76:sup38+ My '42
Material price trends, 1925-1941; basic building materials prices, 1874 to 1941 in New York city. Eng N 128:697 Ap 23 '42
Materials prices. Published in Engineering news-record, first technical issue of each month

Standards

Building's post-war pattern. Arch Forum 75:353-64 N '41
Specification standards for government work. H. R. Sleeper. Arch Rec 91:61-4 Ja; 61-4 F; 63-6 Mr; 92 Ap '42

Statistics

Iron and steel used in typical construction projects, 1936-1941; chart. For Comm W 6:21 Mr 14 '42

Testing

Bomb tests of materials and structures; developing designs for air-raid shelters. il Eng N 128:185-7 Ja 29 '42
Standard tests check fire resistance of building materials and doors. R. P. Miller. il Ind Stand 13:247-9 O '42

BUILDING research
Great Britain organizes for post-war building. il Ind Stand 13:243-6 O '42
With nothing to sell, now, these salesmen study product and make market surveys; pre-fabricated house manufacturer; Homasote company, Trenton, N.J. F. V. Wilson, jr. Ptr Ink 198:17-18+ F 20 '42
See also
Building materials

BUILDING sites
Appraisal of bank properties. K. L. Hyder. Bankers Mo 58:550-1; 59:12-13+, 64, 66+ D '41-F '42
House in Ferndale, Mich.; and house in Detroit designed to fit a very narrow lot; views, plans and construction outlines. Arch Forum 75:398-9 D '41
War housing: site planning. G. Eckbo. il plans Arch Forum 76:263-7 My '42

BUILDING stone
Brickwork and masonry. E. Molloy, ed. 140p $2.50 Chemical pub. co. '42
Conserving metals with stone and glass veneers; building facings; with time-saver standards. F. G. Lopez, jr. diags Arch Rec 90:92-6 D '41
Nonmetallic minerals needed for national defense; building materials. L. J. O'Neill. U S Bur Mines Information Circ 7179:1-13 '41
Reparation works. A. R. Warnes. diag Chem & Ind 60:887-9 D 20 '41; Discussion. 61:11-13 Ja 3 '42
Stone masonry; modernisation of an old-established industry. il Elec R (Lond) 130:269-70 F 27 '42
Usable rock made of soft Miami oolite. il Eng N 129:60-1 Jl 9 '42
See also
Concrete stone
Quarries and quarrying
Stone cutting

BUILDING surveys
Record survey of buildings needed for civilian health and welfare in war-time production centers; hospitals, schools, municipal facilities, transportation terminals, recreational facilities, and commercial buildings. il Arch Rec 91:37-40 Ja '42

BUILDING trades
American Builder pioneering bears fruit; universities having four-year courses leading to degrees of Bachelor of science in housing construction and marketing. Am Bld 64:56 Jl '42
Building for victory and the future. T. S. Holden. il Arch Rec 91:44-6+ My '42
Building trades handbook; a convenient reference book of building construction. 6th ed 366p $1 International textbook co, Scranton, Pa. '42
How to stay in business during the war; 101 jobs you can do at a profit under L-141. il Am Bld 64:26-8 Jl '42
In creating a sample kit; Marsh wall products. M. Seibert. il Ptr Ink 198:32, 35 F 27 '42
Milwaukee priority plan; proposed method of allocating critical materials for non-defense construction; weight calculations of metals used in house construction. Sheet Metal Worker 33:79-81 Ja; 30-2 F '42
Novel idea keeps builder in business; stays on job with his house doctor. il Am Bld 64:46-7 Ag '42
Producer of production lines: Albert Kahn associated architects and engineers, inc. il Arch Rec 91:39-42 Je '42
Sense and shelter; house building problems. A. G. Dietz. il Tech R 44:266-7+ Ap '42
Tomorrow's greatest educational need! formal training for building industry careers. A. A. Hood. Am Bld 64:61-4+ F '42
See also
Brick industry and trade
Cement industry and trade
Concrete industry
Contractors
Housing projects
Lumber trade
Painting, Industrial
Plumbing trade

Advertising

See also
Building materials—Advertising

Finance

Building industry in war. A. B. Wells. il Mag of Wall St 70:126-8+ My 16 '42
SEC reports on building equipment and materials. Comm & Fin Chr 156:175 Jl 16 '42

Labor conditions

Construction employment in the United States, 1939-42. E. G. Hurlbut. Monthly Labor R 55:737-41 O '42
Construction wage rates and trends; 1910-1941. Eng N 128:708 Ap 23 '42
Construction workers' status in draft to be outlined. Eng N 129:335-6 S 10 '42
Detroit building wage-rate award seen setting precedent. Eng N 128:813 My 14 '42
NWLB grants raise to N.Y. building employees. Comm & Fin Chr 156:638 Ag 20 '42
Nelson bares fist; A.F.L.'s uncalled strike in Pittsburgh building trades ended. Business Week p84 Jl 25 '42
New career opportunities in the building industry for high school graduates planning to enter college. A. A. Hood. 23p Johns-Manville corp, 22 E. 40th st, New York '42
Production bonus in British building and civil engineering. Monthly Labor R 55:362-3 Ag '42

BUILDING trades—Labor conditions—*Cont.*

Skilled and common wage rates, per hour. Published in Engineering news-record, first technical issue of each month

Stabilization of wages in building industry. Monthly Labor R 55:86-8 Jl '42

Union pay freeze; agreement of A.F.L. building trades. Business Week p29-30+ Jl 25 '42

Union wages and hours in the building trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1242-73 N '41

Wage rates in building trades. E. M. Craig. Sheet Metal Worker 33:60 Ja '42

Wage rates set for duration on government construction. Eng N 128:879-80 My 28 '42

Securities

Building industry faces lower 1942 earnings; position of leading stocks. Mag of Wall St 69:554-5 F 21 '42

New construction restricted to war needs; position of leading building equipment stocks. Mag of Wall St 70:502-3+ Ag 22 '42

Statistics

Construction census mirrors the industry's operating pattern; market analysis underlining the importance of big business builders. map Arch Forum 75:338-40 N '41

ENR construction nears six billion, 1941. Eng N 128:138-41 Ja 15 '42

Canada

Report on the construction industry in Canada, 1940. 68p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Great Britain

Economic conditions; organization of construction activity. For Comm W 6:20 Mr 28 '42

Engineering outlook; structural and general engineering. Engineering 153:284 Ap 10 '42

Government and the building and contracting industries. H. Beaver. Engineer 173:118-19 F 6 '42

News from London; two examples of how architects managed to get government work. J. E. Reid. Arch Rec 91:28+ Je '42

Piece-rates in building. Economist 142:873 Je 20 '42

Post-war building. Economist 142:549 Ap 18 '42

Works and buildings. Economist 142:294-5 F 28 '42

Russia

Building industry. Economist 142:829 Je 13 '42

United States

Builders ask WPB for housing allocations. Comm & Fin Chr 156:376 Jl 30 '42

Building in conference. Arch Forum 75:sup2, 4+ D '41

Building industry faces lower 1942 earnings; position of leading stocks. Mag of Wall St 69:554-5 F 21 '42

Building industry in war. A. B. Wells. il Mag of Wall St 70:126-8+ My 16 '42

Building relief; used materials and repairs not included in quotas. Business Week p73-4 Je 13 '42

Building squeeze; WPB clamps down on private projects. Business Week p28+ Ap 18 '42

Building's part is big; importance to all-out defense. H. J. Payne. Arch Rec 90:41-3 N '41

Building's postwar pattern; integrated industry. Arch Forum 77:70-81 O '42

Business behavior, 1919-1922; building and allied industries. W. F. Payne. J Business 15:sup202-6 Jl-O '42

Construction for building operators. Arch Rec 92:12 O '42

Construction; material shortage; new construction. Survey of Cur Business 22:7-8 Ag '42

Construction outlook for 1942. Arch Rec 90:41 D '41

Dodge 1942 building estimate 32% under 1941; 1942 construction outlook appraised by S. M. Livingston. Comm & Fin Chr 154:1343 D 4 '41

Drastic stop-building order to be enforced. R. R. Dickey. Arch Rec 91:16+ My '42

Effects of war housing restrictions on building supply companies. Barron's 22:13 N 9 '42

Freezing order is imminent from War production board. K. K. Hoyt and R. R. Dickey. Arch Rec 91:18 F '42

Further building restrictions ordered; War production board amends L-41. Am Bld 64:43+ O '42

Getting results with WPB. Arch Rec 92:38 S '42

Groups named to pass on construction work. Comm & Fin Chr 156:1644 N 5 '42

Home building restricted; financing facilities for purchase of existing houses. A. H. Ferguson. Comm & Fin Chr 156:371 Jl 30 '42

Homebuilders to unite to work with government. Comm & Fin Chr 156:180 Jl 16 '42

Homes can be built to avoid critical list shortages; extensible house. Am Bld 63:39+ D '41

Housing a nation at war. M. L. Colean. il Banking 34:30-1+ F '42

Jones blitzes building. Arch Forum 76:198+ Ap '42

Look ahead 6 months builders urge. il Am Bld 64:44-5+ O '42

News from Washington; government moves to strengthen defense construction. K. K. Hoyt. Arch Rec 91:16, 18+ Ja '42

Next year's construction outlook. Barron's 21:12 D 1 '41

1942 preview. Arch Forum 76:sup44+ F '42

Postwar potentials for building. T. S. Holden. Arch Rec 92:47-50+ S '42

Priorities and construction. Survey of Cur Business 21:5-7 N '41

Priorities and the SPAB order. Arch Forum 75:sup2, 4+ N '41

Priority board on building. H. D. Ralph. Burroughs Clearing House 26:17-18 N '41

This is no time to demobilize the building industry; vast resources of second largest industry available for war effort. Am Bld 64:44-5 Ja '42

Total war and the little man; Ray Elliott, a builder of White River Junction, Vermont; what's to become of him if he can't get materials? il Fortune 25:78-80, 82, 84 Ja '42

Washington report as of February 17. Am Bld 64:43 Mr '42

What's going to happen to the building industry? il Brick & Clay Rec 101:9-11 O '42

See also
Home builders institute of America

BUILDINGS

Civilian defense buildings. il diags plans Arch Forum 76:60-7 Ja '42

Construction of smaller buildings; with timesaver standards. W. H. Hayes. il diags Arch Rec 91:70-4 My '42

Gas explosions in buildings; their cause and prevention. D. J. Parker and C. W. Owings. U S Bur Mines Information Circ 7142R: 1-32 '41

Headline projects of 1941. il Eng N 128:132-4 Ja 15 '42

Huts to resist wind pressure. il Engineering 153:70 Ja 23 '42

Keeping buildings in condition; Graton & Knight company, Worcester, Mass. W. F. Robbins. il Factory Management 100:140-1+ Ag '42

Lightning protection of buildings. E. H. W. Banner. Engineer 174:48-51, 66-7 Jl 17-24 '42

BUILDINGS—*Continued*

Special section on war buildings of 1942. il diags plans Eng N 129:564-94 O 22 '42

See also

Air raids and building
Airport buildings
Apartment houses
Architecture
Bank buildings
Building
Churches
College buildings
Concrete buildings
Courthouses
Dampness in buildings
Earthquakes and building
Employees' buildings
Factories
Farm buildings
Foundries
Garages
Gas companies—Buildings
Gasoline service stations—Construction and design
Highway departments—Buildings
Hotels
Houses
Industrial buildings
Machine shops
Mechanical equipment of buildings
Military buildings
Office buildings
Post offices
Public buildings
Public health departments—Buildings
Railroads—Buildings and structures
Recreation buildings
School buildings
Shopping centers
Society buildings
Steel buildings
Steel construction
Store buildings
Theaters
United service organizations for national defense—Buildings
Warehouses

Electric equipment

Recommended war emergency relaxations of the regulations for the electrical equipment of buildings. Inst E E J 89 pt 1:333-4 Ag '42

Employees

Service employes under Wage hour act. Comm & Fin Chr 155:2114 Je 4 '42

U.S. circuit courts hold loft buildings service employes under Wages, hours act. Comm & Fin Chr 155:113 Ja 8 '42

Wage-hour wins; building service workers are in interstate commerce. Business Week p69 Ja 10 '42

Management

Don't trust your memory on maintenance work. L. O. Adams. il Heating-Piping 14:592-4 O '42

Organization of occupancy as an approach to real estate management. M. J. Feldstein and L. C. Bryant. J Land & Pub Util Econ 17:460-4 N '41

Vibration

Earthquake stresses in frame structures. R. E. Glover. bibliog il Am Concrete Inst J 13:453-70 Ap '42; Discussion. 13:sup472^{1}-472^{12} N '42

Seismic effects of quarry blasting. J. R. Thoenen and S. L. Windes. pls diags U S Bur Mines Bul 442:1-83 bibliog(p81-3); pa 15c Supt. of doc. '42; Excerpts. Concrete (mill sec) 50:223-6 Ag '42

Vibration periods of structures. H. M. Engle. Eng N 128:859-62 My 21 '42

BUILDINGS, Industrial. See Industrial buildings

BUILDINGS, Portable

All metal small homes. N. W. Brownyard. il diags plan Sheet Metal Worker 32:38-40 N '41

Defense housing speeded; electric installations for knockdown dormitory buildings; Farm security administration. S. Beamer. il diag plan Elec West 87:54-6 N '41

Prefabricated buildings house U.S. troops in tropics or arctic. Arch Rec 91:24 Ap '42

Refrigerator buildings flown by plane to Pan American tropical bases. il Refrig Eng 44:260 O '42

See also

Houses, Portable

BUILDINGS, Prefabricated

British prefabricated wartime huts designed for mass production. diags Eng N 129:452-3 O 1 '42

Demountable school; prefabricated school for FWA, Pacific Beach, San Diego, Calif. W. H. Hayes. il Arch Rec 91:68-9 My '42

News from London; prefabrication in England. J. E. Reid. diags Arch Rec 92:18 Ag '42

Prefabricated camp buildings. Pulp & Pa of Can 43:842 O '42

39 prefabricated duration dormitories and 200 cabins, Vallejo, Calif.; views, plans, and construction outlines. Arch Forum 76:334-7 My '42

Vallejo, Calif. Carquinez Heights school. il diags plans Arch Rec 91:47-51 My '42

BUILDINGS, Remodeled

Remodeling, a wartime mandate; with timesaver standards. il diags plans Arch Rec 91:37-58 F '42

BUILDINGS, Standard

Barracks for shipment. il diags plans Arch Forum 76:91-5 F '42

New building technique may be a solution for post-war industry; converting war-time factories to mass production of light-weight building units. H. W. Corbett. Arch Rec 90:26 D '41

See also

Houses, Prefabricated

BUILDINGS, Temporary

Planned for modernization as values develop; Corinne Griffith buildings, Beverly Hills, Calif. il plans Arch Rec 90:90-1 D '41

Speed and conservation are paramount on Washington's temporary office buildings. il Eng N 128:744-5 Ap 30 '42

Temporary but safe; fire protection in government temporary office buildings. C. A. Peters. il Nat Safety N 45:22-3 Ja '42

BULBS

War hits bulb trade. D. R. Crone. For Comm W 8:8-9 S 19 '42

BULGARIA

See also

Insurance, Social—Bulgaria

BULKHEADS

Relieving platform bulkhead for New York's East River drive. L. C. Hammond. il diags Civil Eng 12:251-4 My '42

Steel bulkhead, New York; unit prices. Eng N 127:700 N 13 '41

BULLARD, Edward Payson, jr, 1872-

Edward P. Bullard, jr., completes fifty years with his company. por Mach 48:205 Ap '42

BULLARD company

Another look at your company. il Mag of Wall St 70:129 My 16 '42

Edward P. Bullard, jr., completes fifty years with his company. Mach 48:205 Ap '42

BULLARD-DUNN process. See Metal cleaning, Electrolytic

BULLET proof steel. See Steel, Bullet proof

BULLETIN boards

Bausch & Lomb bulletin boards, then and now. M. C. Williamson. il Ptr Ink 198:16-17 F 13 '42

Bulletin boards keep safety before employees. il Nat Safety N 45:180+ Mr '42

General Electric uses outdoor bulletins to inform employees. il Am Business 12:38 Ap '42

Union notices on company bulletin boards. Management R 31:34-5 Ja '42

BULLETS. See Projectiles

BULLION. See Money; Precious metals

BULLOCK, Chandler, 1872-

State Mutual's executive change. por East Underw 43:6 Mr 6 '42

BULOVA watch company

Thumbnail stock appraisal. Mag of Wall St 71:135 N 14 '42

BUNA. See Rubber, Artificial

BUNSEN burner

Aerated burner flames; abstract. J. S. Forsyth and D. G. R. Davies. Engineering 153:314-15 Ap 17 '42

Observations from data taken with a flashback instrument. J. A. Morrison. il diags Am Gas J 157:11-17, 44 Ag '42; Same. Gas J (Lond) 239:215, 217 Ag 5 '42

BUNTE salts
Use of Bunte salts in synthesis; the preparation of aliphatic disulfides. H. E. Westlake, jr. and G. Dougherty. bibliog Am Chem Soc J 64:149-50 Ja '42

BUREAU of contract information
Bureau of contract information has an important place in unified war effort. D. Porter. Ins Field (Fire ed) 71:8-9+ Ja 1 '42

BUREAU of personal accident and health underwriters
Annual meeting, New York, June 5. East Underw 43:34-5 Je 12 '42; Ins Field (Life ed) 71:9 Je 12 '42; Nat Underw 46:21-2 Je 11 '42

BURETS
All-glass buret system. T. F. Lavine. diag Ind & Eng Chem Anal ed 14:739 S 15 '42
Apparatus for precision calibration of pipets, volumetric flasks, and burets. W. R. Thompson. diags Ind & Eng Chem Anal ed 14:268-71 Mr 15 '42
Automatic buret for dispensing volatile reagents. J. W. Murray. diag J Chem Educ 19:516 N '42
Evaporation of standard solution from the tips of microburets. A. A. Benedetti-Pichler and S. Siggia. bibliog Ind & Eng Chem Anal ed 14:662-3 Ag 15 '42
Microburette. P. F. Scholander. diag Science 95:177-8 F 13 '42
Micrometer burette. R. B. Dean and E. S. Fetcher, jr. diag Science 96:237-8 S 4 '42
Simple micro-burette. P. F. Holt and H. J. Callow. diag Soc Chem Ind J 61:99-100 Je '42
Two simple micro-burettes and an accurate wash-out pipette. I. H. Hadfield. diags Soc Chem Ind J 61:45-50 Mr '42

BURGESS, Charles Frederick, 1873-
Burgess wins Acheson medal. por Oil Paint & Drug Rep 142:7 S 28 '42

BURGLAR alarms
Electronic intrusion-detection systems; burglar-alarm devices employing photoelectric, capacity and acoustic relays. il diags Electronics 15:38-43 F '42

BURIAL
Burial and town planning. Economist 143:358 S 19 '42

BURIAL societies. See Benefit societies

BURLAP
Burlap allocation ordered by OPM. Oil Paint & Drug Rep 140:5 D 29 '41; 141:7 Ja 5 '42
Burlap controlled. Business Week p39 Ja 3 '42
Burlap maximums upped. R. W. Lahey. Chem Ind 50:520 Ap '42
Burlap-trade problems dealt with by OPA. For Comm W 6:23-4 Mr 14 '42
No bags to fill; prospect faced by California growers as result of burlap restrictions. Business Week p80 Ap 18 '42

Prices

OPA statement of the considerations involved in the issuance of amendment no. 1 to revised price schedule no. 18, burlap. For Comm W 7:27 Ap 25 '42

BURLINGTON mills corporation
Preferred stock offered. Comm & Fin Chr 156:1146-7 S 28 '42

BURMA
Burma. J. R. Andrus. il For Comm W 7:4-5, 29-32 My 9 '42
Dominion status for Burma. Economist 141:530-1 N 1 '41
Modern Burma; a survey of political and economic development. J. L. Christian. 381p bibliog(p350-68) $3 Univ. of California press, Berkeley '42

Industries and resources

See also
Mineral industries—Burma

BURMA corporation
Annual general meeting, Rangoon. Economist 142:123 Ja 24 '42
Burma corporation results, years ended June 30, 1939-41. Economist 141:572 N 8 '41

BURMA road
Burma road. il map Comp Air M 47:6665-6 F '42
Burma road. N. Smith. 333p $1 Garden City pub. co., Garden City, N.Y. '42

BURMA-YUNNAN railroad
United States medical commission to the Yunnan-Burma railroad. Science 94:sup14 D 19 '41

BURN-out printing. See Textile printing

BURNERS
Principal function of pulverized-coal burners. H. Kreisinger and V. Z. Caracristi. il diags Mech Eng 64:365-8 My '42

See also
Bunsen burner
Gas burners
Oil burners

BURNETT, Leo
Gallery; compleat ad man. J. Truscott. por Adv & Sell 35:42+ Jl '42

BURNISHING. See Polishing

BURNS and scalds
Burns and first aid for burns. M. N. Newquist. Nat Safety N 45:80-1 Ap '42
Burns; new treatment with sulfadiazine. Sci Am 165:332 D '41
Minor and medium burns; treatment with sulfathiazole. J. H. Biram. bibliog Ind Med 11:462-3 O '42
New sulfhydryl solution for the treatment of burns. R. R. Mellon. bibliog il Ind Med 11:14-18 Ja '42
New treatment for burns: preliminary report; abstract. K. L. Pickrell. J Ind Hygiene 24:sup33-4 F '42
Treatment of burns. H. N. Harkins. 457p bibliog(p394-440) $6.50 C. C. Thomas, Springfield, Ill. '42
Treatment of burns. G. C. Penberthy. bibliog Ind Med 11:277-80 Je '42; Abstract. J Ind Hygiene 24:sup 167-8 O '42
Treatment of burns. A. B. Wallace. 113p $1.50 Oxford '41
Treatment of burns of the skin due to molten magnesium. J. A. Wilson and B. Egeberg. Ind Med 11:436-7 S '42
Treatment of face and eye burns with a sulfhydryl solution. A. E. Cruthirds. il Ind Med 11:109-12 Mr '42

See also
Ointments

BURPEE, George William, 1883-
Sketch. por Civil Eng 11:736-7 D '41

BURROUGHS adding machine company
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:592 S 19 '42

BUS terminals. See Motor bus lines—Terminals

BUS transportation (periodical)
Bus transportation chalks up two decades of service. il Bus Transportation 21:4-5 Ja '42

BUSBARS
Aircraft maintenance; new aspect of electrical versatility. il Elec R (Lond) 130:747-8 Je 12 '42
Busbar bender. diag Eng & Min J 143:69-70 O '42
Copper saved to make magnesium; busbar and feeder system for the electrolytic plant located at Basic magnesium, inc. il Elec West 89:48-50 O '42
Coupling-free bus-bar circuit for alternating-current sources in communication technique; abstract. U. John. Wireless Eng 19:419-20 S '42
Deflection chart for steel pipe buses. W. S. Scheering. Elec W 118:1288 O 17 '42
Devise substitute for tubular bus. diags Elec W 118:968+ S 19 '42
Evaluate steel pipe as a.c. conductor; substitute for copper in high-voltage substations. S. C. Killian. diags Elec W 117:1349-50 Ap 18 '42
Formulas for calculating short-circuit stresses for bus supports for rectangular tubular conductors. T. J. Higgins. bibliog Elec Eng 61:Trans 578-80 Ag '42

BUSBARS—*Continued*

How to connect bus voltmeter and synchronizing equipment; diagrams. Elec W 117:1376 Ap 18 '42

Insured lighting power by station busbar changes. E. R. Webber. diag Power 86:425-6 Je '42

Memphis has uniform transfer bus scheme. il diag Elec W 118:160 Jl 11 '42

Novel supply scheme for turbine auxiliaries. diag Elec W 117:98 Ja 10 '42

Oversize bus for 108,000-kw. generators; Grand Coulee. il Elec W 117:1206+ Ap 4 '42

Power design in defense plants; low-voltage distribution. H. Winte. il diags Elec W 117:805-8 Mr 7 '42

Power station bus schemes; diagrams. C. A. Powel. Elec W 117:1380 Ap 18 '42

Silver busbars for war plants probable. Elec W News ed 117:1261 Ap 11 '42

Station bus scheme frees equipment. diags Elec W 118:480 Ag 8 '42

Suspended buses carry heavy current; Aluminum co. of America. L. N. Greer and L. T. Guess. il Elec W 116:1889 D 13 '41

Protection

Bus oil switch protection. diag Elec W 118:950 S 19 '42

Fault bus-differential scheme protects Cahokia bus. G. W. Gerell. diags Elec W 117:1335-6 Ap 18 '42

Linear couplers for bus protection. E. L. Harder and others. bibliog il diags Elec Eng 61:Trans 241-8 My '42

Rats or birds can't short this bus; use of Flamenol insulation. il Elec W 116:1738 N 29 '41

Transient analyzer checks breakers and bus protection. J. H. Neher and R. J. Woodrow. il diag Elec W 116:1885-6 D 13 '41

BUSES

See also
Motor buses
Trolley buses

BUSH, James Mortimer, 1863-1941

Sketch. por Chem & Ind 60:882-3 D 13 '41

BUSH terminal buildings company

Listing. Comm & Fin Chr 155:1595 Ap 20 '42

BUSH terminal company

Randall *v.* Bailey; New York court of appeals. J Account 74:473-7 N '42

BUSHINGS

Automatic screw bushing saves time. F. J. Yunker. diag Am Mach 86:712-13 Jl 9 '42

Bushing puller with thrust bearing. N. Deering. il diag Am Mach 86:163-4 Mr 5 '42

Drill jig for synthane bushings. D. I. Krauss. diags Am Mach 86:13-14, 59-60 Ja 8, F 5 '42

Formulas for calculating press fits in aluminum rings. H. N. Hill. diag Product Eng 13:659 N '42

Getting along with obsolete machinery; replacing crushing machine bushing. J. B. Hess. diags Eng & Min J 143:67-8 S '42

Grease removes blind bushings. J. E. Hyler. diag Am Mach 86:835 Ag 6 '42

Handy kink for making pipe bushings out of standard pipe. W. F. Schaphorst. Am Gas J 156:20 Ap '42

Heli-coil spark plug bushing. H. Caminez. il diags Aviation 41:80-1+ Mr '42

Manganese steel renewal-bushings. J. I. Capps. diag Metals & Alloys 16:470 S '42

Perforated bearing bushings as substitutes for ball bearings. A. E. Rylander. diag Mach 49:171 S '42

Sprayed metal bearings. il Iron Age 149:52-3 Je 25 '42

BUSHINGS, Insulating

Bushings safeguarded in storage. Elec W 118:792 S 5 '42

Electrical bushings. W. A. Cook. Engineering 152:452 D 5 '41

Flexible bearings, bushings and gears of rubber or neoprene. W. L. Nelson. diags Oil & Gas J 40:160 D 25 '41

Handle bushings on pedestal wheel. diags Elec W 118:964 S 19 '42

How to modernize, interchange and rehabilitate bushings; illustrated instructions. L. M. Limpus. Elec W 118:1128 O 3 '42

How to use bushing covers as safety devices. il diag Elec W 118:494 Ag 8 '42

Outdoor bushings; their construction, testing and standardization. W. A. Cook. bibliog diags Inst E E J 88 pt 2:302-25 Ag '41; Discussion. 88 pt 2:325-41; 89 pt 2:256-67 Ag '41, Je '42

Reclamation and maintenance of electrical equipment. Oil & Gas J 41:45 Je 4 '42

Reduces bushing maintenance; diaphragm seal keeps moisture out. diag Elec W 118:468 Ag 8 '42

Spacers reduce bushing maintenance. diag Elec W 118:974 S 19 '42

Tilting table for bushing maintenance. il diag Elec W 118:168 Jl 11 '42

Vacuum pump helps to seal bushings. Elec W 118:632 Ag 22 '42

Testing

Audio frequency aids bushing tests. il Elec W 117:2248+ Je 27 '42

Bushing test set aids oil circuit breaker checks. E. J. Mommo. il Elec W 116:2057 D 27 '41

Field measurements of insulation. E. A. Burton, J. S. Forrest and T. R. Warren. bibliog diags Inst E E J 89 pt 2:288-305; Discussion. 305-16 Ag '42

BUSINESS

After "X" day we must sell twice as much as ever before, or else! P. Salisbury. Sales Management 51:16-18 O 10 '42

Atlantic charter for business proposed. W. P. Witherow. Comm & Fin Chr 156:1182 O 1 '42

Business and accounting procedure. C. E. Bowman and A. L. Percy. 483p $1.76 Am. book co. '42

Business executive's handbook. S. M. Brown, ed. 2d ed rev & enl 1600p $7.50 Prentice-Hall '42

Business in the post-war world. W. C. Taylor. Gas Age 90:11-12+ N 5 '42

Business signals go as it tackles war problems. il Am Business 12:9-11+ Ja '42

Effect of size on efficiency. R. N. Anthony. Harvard Business R 20 no 3:290-306 [Ap] '42

Factors that influence response to advertising and selling efforts; how news affects business. R. Manville. Ptr Ink 199:48 Je 12 '42

Fourteenth Boston conference on distribution, 1942. 94p $3.75 Daniel Bloomfield, director, 80 Federal st, Boston '42

Functions of business, a text for consumer and producer. L. L. Jones, H. A. Tonne and R. G. Price. 557p $1.80 Gregg '41

General business, with applied arithmetic; complete course. E. H. Crabbe and P. L. Salsgiver. 4th ed 726p $1.60 South-western pub. co. '41

Introduction to business. M. Anshen. 640p $4 Macmillan '42

Introduction to business. J. G. Kirk, H. B. Buckley and M. A. Waesche. 3d ed 512p $1.40 John C. Winston co, Philadelphia '42

Introduction to business. C. A. Reed and V. J. Morgan. rev ed 539p, 22p bibliog(p535-9) $1.40 Allyn and Bacon, Boston '40

Is democracy good business? E. G. Nourse. Trusts & Estates 75:122-4 Ag '42

Mathematics of business and finance. W. B. Dyess and R. O. Gilmore. 221p, 214p $3.50 McGraw-Hill '42

Outworn business idols. W. H. Conant. 125p $1.50 Barron's, New York '41

Relation between size and efficiency of business. J. M. Blair. bibliog R Econ Statis 24:125-35 Ag '42

Spirit of business in wartime; why making a profit is essential part of merchandiser's contribution to victory. R. S. Butler. Ptr Ink 201:11-12, 64, 66 O 23 '42

Time: the priceless element in business-building. H. B. LeQuatte. Ptr Ink 197:47+ D 5 '41

Trials and errors; memorandum on a few business problems. Fortune 25:16, 18 Ap '42

BUSINESS—*Continued*

What is the most important problem facing your business in the war years ahead? Fortune management poll. Fortune 25:10, 24+ Mr '42

See also

Accounting
Advertising
Auditing
Billing
Bookkeeping
Budget, Business
Business conditions
Business failures
Business management
Catalogs
Christmas business
Collecting of accounts
Commerce
Commercial correspondence
Commercial law
Competition
Cooperation
Corporations
Cost accounting
Credit
Delivery of goods
Department stores
Efficiency, Industrial
Employment management
Executives
Export trade
Federal trade commission
Files and filing (documents, etc.)
Finance
Financial statements
Government aid to business
Government regulation of industry
House organs
Income
Industrial management
Industry
Instalment plan
Insurance
Inventories
Investments
Jobbers
Joint adventure
Mail order business
Mailing lists
Manufactures
Marketing
Merchandizing
Money
Office management
Organization in industry
Price policies
Profit
Public relations
Purchasing
Real estate business
Retail trade
Sales letters
Salesmanship
Salesmen
Securities
Show windows
Speculation
Success
Taxation
Trade associations
Trade marks
Trust companies
Trusts, Industrial
War—Economic aspects

Bibliography

Books in brief. Ptr Ink 197:61-2 D 5 '41; 198: 46 F 27; 199:26 My 29; 54 Je 26; 201:70 N 6 '42

Books on business in the Indiana state library. M. Donnell and H. Sander, comps. 51p Indiana State lib, Indianapolis '42

Business books for our democracy. Cleveland Pub Lib Business Information Bur v 13, no 1:1-4 Ja '42

Business literature; a monthly note; published by the Business branch, Newark public library, Newark, N.J.

Business research projects, 1941. U S Bur For & Dom Com, Economic Ser 16:1-173; pa 20c Supt. of doc. '41

Industrial Marketing 1942 market data book number; business reference publications. Ind Marketing 26:98-9 O 25 '41

New books for executives. Published in monthly numbers of American business

Small business bibliography. 49p; Appendix: Chain store reference, 1920-1939. 105p (U.S. 77th Congress 1st sess. S com. print no 5) U.S. Lib. of Congress, Legislative reference service, Washington '41

Survey of books for executives. Published in monthly numbers of Management review

Dictionaries

Business encyclopedia. N. Braddy, ed. 513p $1 Garden City pub. co, New York '41

History

Business behavior, 1919-1922; an account of post-war inflation and depression. W. F. Payne. bibliog J Business 15:supl-215 Jl-O '42

Mortality

See also
Business failures

Political aspects

Banker, politician & co. R. P. Shorts. Trusts & Estates 74:451-4 My '42

If American business wants to run its own show when this war is over. E. Schram. Ptr Ink 198:17, 38+ Ja 16 '42

That fifth column. C. Benedict. il Mag of Wall St 69:683+ Ap 4 '42

See also
Government regulation of industry
Industry and state

Reports

Theory of business communication. O. W. Phelps. diag J Business 15:343-60 O '42

Reports to government

Accounting aspects of price administration. H. F. Taggart. J Account 74:11-17 Jl '42

Capital quizzes; Lubin committee dropped 20% of questionnaires. Business Week p30-1 O 24 '42

Government statistical requirements stressed at meeting of Controllers institute. E. C. Peet. Comm & Fin Chr 156:1092 S 24 '42

New OPA financial reporting forms. W. W. Werntz. N A C A Bul 23:1159-76 My 1 '42

O.P.A. financial reporting program. J Account 73:508-9 Je '42

Production requirements plan; recent changes in priorities system, with particular attention to statistical and accounting data required by form PD-25A. G. N. Farrand. J Account 73:530-6 Je '42

Reduction of government questionnaires. J Account 74:99-100 Ag '42

Reform on forms; Nelson's drive to simplify paperwork imposed on industry. Business Week p40+ Jl 18 '42

Review of data requests from industry. D. Rose. Paint Oil & Chem R 104:64-5 N 5 '42

Small business

All-out credit strategy. O. McKee. Banking 34:23+ F '42

Coast forges a plan to help small business weather the war. E. Gidlow. Sales Management 51:36-9 Ag 1; 22-4 Ag 15 '42

Cutting credit corners. H. Bratter. Banking 34:19-21, 68-9 My '42

Draft of bill permitting small business to participate in war production completed. Comm & Fin Chr 155:1156 Mr 19 '42

Federal agency to aid small plants in New York city advocated by N.Y. chamber of commerce. Comm & Fin Chr 156:1436 O 22 '42

Forgotten man in defense. J. H. Collins. Chem & Met Eng 48:71-2 D '41

Future of small business. W. Gates. il Mag of Wall St 71:61-3, 98 O 31 '42

House passes bill to aid small business. Comm & Fin Chr 155:2125 Je 4 '42

How to utilize facilities of small business for larger war production. D. L. Miller. Steel 110:61-2 Mr 16 '42

Job is tough, but it can be done. A. J. Browning. Ptr Ink 197:17-19+ D 12 '41

Keep small manufacturers in business; abstract. R. O. Byerrum. Bankers M 144:457 My '42

Little man's pal; Congress is steaming up again about aid to small plants. Business Week p20, 22 O 10 '42

Mobilization of capacity and resources of small-scale enterprises in Germany. E. Grunberg. bibliog J Business 14:319-44; 15: 56-89 O '41-Ja '42

Needed, a market for family business enterprises. Trusts & Estates 74:168 F '42

Nelson outlines charter of post-war life for small businesses. E. Blair. Barron's 22:4 O 5 '42

Nelson urges creation of War liabilities board to bring small business into war effort. Comm & Fin Chr 156:1271 O 8 '42

Organize clearing house to aid small industries obtain materials, equipment. Steel 109:35 N 24 '41

Plan for financing small business. R. L. Weissman. Bankers M 144:491-4 Je '42

President orders loans to small business to put working capital financing on war basis. Comm & Fin Chr 155:1360 Ap 2 '42

Relief for small business. Trusts & Estates 75:28 Jl '42

BUSINESS—Small business—*Continued*

Senate approves aid for small manufacturing plants. Comm & Fin Chr 155:1448 Ap 9 '42

Senate group seeks full use of small plants in war effort; Senator Mead's bill. Comm & Fin Chr 156:1720 N 12 '42

Small business and the banks. J. E. Murray. il Banking 35:19+ N '42

Small business *can* survive war and be stronger than ever. W. L. Carter. il Ptr Ink 198:11-13 F 20 '42

Small business division in war production favored; Murray & Sabath bills introduced. Comm & Fin Chr 155:857 F 26 '42

Small business given broader opportunity to aid in national effort. il Steel 110:225-7 Ja 5 '42

Small business in the war program. P. R. Nehemkis, jr. Bankers M 144:47 Ja '42

Small business, its contribution to the war effort and problems. Index 22 no 3:49-57 [S] '42; Excerpts. Comm & Fin Chr 156:1104 S 24 '42

Small business may get better break under War production board. A. P. Mills. Ind Marketing 27:35-6 F '42

Small business needs a friend. T. H. Reed. Banking 35:17-19, 50 Jl '42

Small business should get bank financing to fill defense contracts. C. B. Henderson. Comm & Fin Chr 155:1154 Mr 19 '42

Small business unit set up in Commerce department; Congressional hearings. Comm & Fin Chr 155:109 Ja 8 '42

Small businessmen are confused in the matter of sacrifices. E. Davis. Comm & Fin Chr 156:1268 O 8 '42

Small plants bill revised on trust laws. Oil Paint & Drug Rep 141:5 Je 8 '42

Smaller war plants bill passes Congress. Oil Paint & Drug Rep 141:5+ Je 1 '42

Subcontract program for small business. Burroughs Clearing House 26:18 D '41

Survival of many small businesses will be determined soon. W. R. Kuhns. Comm & Fin Chr 156:374 Jl 30 '42

To expedite conversion of small industry; what electric utilities can do. Elec W 117:998-1002 Mr 21 '42

Urges government to aid small business. P. D. Reed. Comm & Fin Chr 156:25 Jl 2 '42

War financing; act to mobilize productive facilities of small business. Fed Res Bul 28:635-41 Jl '42

War liabilities board proposed by Nelson to facilitate use of plants. Steel 111:95-6 O 5 '42; Excerpts. Banking 35:12-13 N '42

War plant conversion and financing. il Mag of Wall St 69:712-14; 70:34, 86, 138, 190, 242 Ap 4-Je 13 '42

WPB given power to waive anti-trust acts. Comm & Fin Chr 155:2216 Je 11 '42

Wartime guides for your business. W. H. Hillyer. Barron's 22:3-4 O 26; 7 N 2; 7-8 N 9 '42

When the small business goes after war contracts; American well and prospecting company, Corsicana, Tex. C. N. Tunnell. il Am Business 12:14-15+ Je '42

See also

Smaller war plants corporation

Social aspects

Role of management as innovator. W. L. Thorp. J Business 14:42-61 pt 2 O '41

Terminology

Use of trade terms in advertising only double-talk to the housewife. P. Salisbury. il Sales Management 50:18-21 F 1 '42

BUSINESS advisory council

Business advisory group selects R. R. Deupree; other officials. Oil Paint & Drug Rep 141:5+ F 9 '42

Business and government; cooperation vital to victory; address to Business advisory council. J. H. Jones. For Comm W 6:3, 26-7; Reply. R. R. Deupree. 27-8 F 7 '42

BUSINESS budget. See Budget, Business

BUSINESS cards

Business card contest winners! il Inland Ptr 109:54-7 My '42

Honorable mention winners in business card contest! il Inland Ptr 109:40-1 S '42

BUSINESS communication. See Business writing

BUSINESS conditions

As business and markets enter the second half of the year. G. W. Mathis. Mag of Wall St 70:268-70+ Je 27 '42

Barron's business index revised. Barron's 22:1 S 7 '42

Barron's revised annual index. E. Frickey. Barron's 22:20 S 7; 7-8 S 14; 18-19 S 28 '42

Boom towns, and others; factual reports from 750 communities as to the impact of increased war expenditures. map Dun's R 49:15-28, 55-81 N '41

Business and finance speaks; symposium on 1942 prospects. Comm & Fin Chr 155:448-78 Ja 29 '42

Business and the war; a front line view of effects and trends. W. Mitchell, jr. and W. Hayes. Dun's R 50:13-19 S; 5-10+ O '42

Business as usual, but more of it; glass, cement, fibres, and paper. W. Gates. il Mag of Wall St 70:238-9+ Je 13 '42

Business in the war period; chart showing degree of change since the start of the war. Dun's R 49:33 O '41

Business record, state by state; per cent gain or loss, 1941 compared with 1940; tabulation. Business Week p22 Ap 4 '42

Business roundup; 1941 compared with 1940; chart. Business Week p42 F 7 '42

Business trend. Published in weekly numbers of Steel

Business Week index of business activity. Published in weekly numbers of Business week

Changing trends in printing field shown in results of survey. Inland Ptr 109:21-5 Ag '42

Condition of business. W. R. Kuhns. Published in monthly numbers of Banking

Condition of business; charts of income, employment, etc, 1939-1942. Banking 34:8-9 Ap '42

Course of trade and speculation and bank clearings in 1941. Comm & Fin Chr 155:478-84 Ja 29 '42

Difficult days ahead for business. Barron's 22:13 Ja 12 '42

Economic review of 1941. Survey of Cur Business 22:3-62 F '42

Federal Reserve February business indexes. Comm & Fin Chr 155:1253 Mr 26 '42 [cont monthly]

Future of small business. W. Gates. il Mag of Wall St 71:61-3, 98 O 31 '42

How 22 industries line up at start of 1942; inventory situation; volume of business; prices and profit margins; 1941 results; earnings outlook. Barron's 22:10-11 Ja 12 '42

How's business? Barron's weekly index starts year at 103.1. A. R. Murray. Barron's 22:14 Ja 12 '42

How's business? weekly and monthly indexes of production and trade. Published in weekly numbers of Barron's

National summary of business conditions. Published in monthly numbers of Federal reserve bulletin

Near-term business outlook. J. D. C. Weldon. Mag of Wall St 69:126-8 N 15 '41

New industrial set-up in 1942; changing character of production in transition to full war effort. W. Gates. Mag of Wall St Manual p3-5 Ap '42

Outlook for 1942. H. H. Heimann. Bankers M 144:88 Ja '42

Pacific Coast business readjusting for war of several years' duration. Comm & Fin Chr 155:1531 Ap 16 '42

Regional trade barometers. L. D. H. Weld. map Dun's R 50:32-7 Ja '42 [cont monthly]

Review of the month. Published in monthly numbers of Federal reserve bulletin

Second quarter business in transition. W. Gates. Mag of Wall St 69:639-41+ Mr 21 '42

BUSINESS conditions—*Continued*
Sellers' market in 1942? don't be too sure of it! A. P. Hirose. Ptr Ink 198:11-12+ Ja 23 '42
Small town business improving. E. E. Sproul. Bankers Mo 59:387-9+ S '42
State of trade. Published in weekly Thursday numbers of Commercial & financial chronicle
Stock trends in three war years; armament industries have lagged far behind certain consumer groups. Barron's 22:1 Ag 24 '42
Trends of business, Canada and U.S.; 1929-1942; chart. Business Week p36 Jl 11 '42
Trends of things through 1941. Oil Paint & Drug Rep 141:46+ Ja 12 '42
War atlas of industry; comparing industrial volume-profit trends under impact of war. J. C. Clifford. Mag of Wall St 69:426-7, 486, 544 Ja 24-F 21 '42
Wartime shortages; their effect on civilian industries. R. L. Leger. il Dun's R 50:13-17 Ap '42
What's ahead for business. L. P. Ayres. Trusts & Estates 73:597 D '41
When to advertise in Miami and Seattle; a study of Federal reserve board reports, 1936 through 1940. C. E. Haring. Adv & Sell 35:24 Jl '42
Will your firm be in a seller's market in 1942? H. Demarest. Adv & Sell 35:24+ Ja '42

See also
Business cycles
Business failures
Business forecasting
Business statistics
Economic conditions
Export trade
Index numbers (economics)
Market statistics
Prices

BUSINESS conferences
How to conduct conferences. A. M. Cooper. 191p $1.75 McGraw-Hill '42

BUSINESS consolidations

See also
Railroads—Consolidation
Steel mergers

BUSINESS cycles
Birth rates and the interwar business cycles. V. L. Galbraith and D. S. Thomas. bibliog Am Statis Assn J 36:465-76 D '41
Consumer instalment credit and economic fluctuations. G. Haberler. 239p $2.50 Nat. bur. econ. research '42
Creation of purchasing power; a study in the problem of economic stabilization. D. M. Wright. 251p bibliog(p233-41) $3 Harvard univ. press '42
Earnings and employment in the business cycle. J. H. Furth. R Econ Statis 24:136-42 Ag '42
Measures of business variation in Louisiana. C. T. Devine. (Louisiana business bul. v 3, no 2) 51p bibliog(p40-2) Louisiana state univ. press, Baton Rouge '41
Prosperity and depression; a theoretical analysis of cyclical movements. G. Haberler. 3d ed enl 532p $2.50 Columbia univ. press '41
Public works, economic stabilization and the rural South. J. V. Van Sickle. 33p bibliog (p33) pa 25c Vanderbilt univ. press, Nashville, Tenn. '42
Relation between seasonal amplitudes and the level of production; an application to the production of steel ingots. G. S. Juliber. Am Statis Assn J 36:485-92 D '41
Review of Fiscal policy and business cycles by A. H. Hansen. R. Clemence. Mech Eng 64:288 Ap '42
Review of Fiscal policy and business cycles, by A. H. Hansen. S. Kuznets. R Econ Statis 24:31-6 F '42

See also
Building cycles
Business forecasting

BUSINESS depression
Business behavior, 1919-1922; an account of post-war inflation and depression. W. F. Payne. bibliog J Business 15:sup1-215 Jl-O '42
Planning against postwar depression. A. R. Sweezy. Ann Am Acad 224:175-82 N '42
Post-war standard of living seen higher; controls in future depressions. A. T. Hansen. East Underw 43:12 My 22 '42

See also
Business cycles
Business failures
Business management
Unemployment

BUSINESS development office
BDO reports to agents' body; abstracts. A. I. Wolff. Weekly Underw 146:941+ Ap 25 '42; East Underw 43:30 My 1 '42
B.D.O.'s 1942 supplement. Ins Field (Fire ed) 71:18-19 Jl 23 '42
Story of the B.D.O. D. Porter. Ins Field (Fire ed) 71:20-3 Mr 19; 20-2 Mr 26 '42

BUSINESS districts
Parking problem in the business district, with special reference to California cities. J. G. Marr. il Civil Eng 12:21-3 Ja '42
Patterns and recent trends of Chicago's outlying business centers. H. M. Mayer. maps J Land & Pub Util Econ 18:4-16 F '42
Urban disintegration and the future of land investments. G. Whitnall. J Land & Pub Util Econ 17:440-51 N '41

BUSINESS education
American association of collegiate schools of business, proceedings, 23d annual meeting, School of business administration, University of Minnesota, May 1-3, 1941. 136p pa $1.25 Herluf V. Olsen, sec, Am. assn. of collegiate schools of business, Amos Tuck school, Hanover, N.H. '41
Business and business education; eleventh yearbook. J. R. Meehan, ed. 278p $2 Commercial education assn. of the city of New York and vicinity, New York '41
Business curriculum. R. G. Walters. 38p bibliog(p37-8) South-western pub. co. '42
Business of life. A. B. ZuTavern and E. J. Erickson. 396p to schools $1.26 Commercial textbook co, South Pasadena, Calif; H. M. Rowe co, Baltimore '42
New economic education at the secondary level; proceedings of the University of Chicago Conference on business education, 1941. 116p bibliog(p111-16) pa $1 Univ. of Chicago press '41
Preparing for business. C. W. Hamilton, J. F. Gallagher and C. Fancher. 493p $1.60 Prentice-Hall '42
Problems and issues in business education; seventh yearbook of the National business teachers association. 330p $2.50 Nat. business teachers assn, J. Murray Hill, sec, Bowling Green business univ, Bowling Green, Ky. '41
Projects in clerical training. R. C. Goodfellow and G. Kahn. 252p pa $1 South-western pub. co. '42
Report on war courses offered by collegiate schools of business and departments of economics, April 1942. 58p bibliog(p49-56) U.S. Bur. of foreign and domestic commerce, Washington '42
Study of business education in the public schools of St Louis and Pittsburgh. H. L. Forkner. 45p South-western pub. co. '41
Training for leadership in distributive education. K. B. Haas. J Retailing 18:26-31 F '42

See also
Accounting—Study and teaching
Arithmetic, Commercial—Study and teaching
Business schools and colleges
Executives—Training
Junior achievement movement
Retail trade—Study and teaching
Salesmen—Training
Secretaries, Private
Shorthand
Typewriting

Indexes

Business education index, 1940. E. H. Hughes, ed. 36p pa $1 Gregg '41

BUSINESS English. See English language—Business English

BUSINESS ethics
Code of ethics; adopted by the International trade composition association, at 22d annual convention, Toronto, Sept. 27. Inland Ptr 108:32 D '41

BUSINESS ethics—*Continued*

To whom do a department's operating figures belong? I. Goldenthal. J Retailing 18:24-5 F '42

See also

Accounting ethics
Advertising ethics
Competition, Unfair
Price cutting
Price discrimination
Price fixing
Purchasing—Treatment of salesmen
Speculation
Success
Trade practices

BUSINESS failures

Canadian failures by provinces, monthly; and quarterly record by province, city, and division of industry. Published in Dun's statistical review; summary in Dun's review

Commercial failures, by districts. Published in monthly numbers of Federal reserve bulletin

Commercial failures, 1939-41. Barron's 21:1 N 24 '41

Credit losses from business failures compared with the volume of business transacted in the United States, 1900 to 1940; table. Credit & Fin Management 44:28 Ja '42

Failures below 1941 despite seasonal rise. Comm & Fin Chr 155:954 Mr 5 '42

Fewer failures. Business Week p82 Jl 4 '42

Monthly and quarterly failures by division of industry, city, state, size of liability and Federal reserve district. Published in Dun's statistical review; summary in Dun's review

New bankruptcy statistics issued by Administrative division of the United States courts. Credit & Fin Management 44:8-9 Mr '42

See also

Bank failures
Bankruptcy
Corporations—Finance

BUSINESS forecasting

Case for rising stock prices. W. von Tresckow. Barron's 22:3+ Je 1 '42

Economics department of one industrial company; Hercules powder company. P. J. Weber. Harvard Business R 20 no 3:381-5 [Ap] '42

How 22 industries line up at start of 1942; inventory situation; volume of business; prices and profit margins; 1941 results; earnings outlook. Barron's 22:10-11 Ja 12 '42

Investor interviews the trustees. Comm & Fin Chr 155:2295+ Je 18 '42

Looking ahead fifty years. R. W. Babson. 234p $2 Harper '42

Making money in stock trading. Barron's 22:7-8 O 26; 9 N 2; 9 N 9 '42

Market forecasting significance of market movements; daily highs of the U.S. Steel common stock; wheat May futures and cotton October futures. L. C. Wilcoxen. Am Statis Assn J 37:243-51 S '42

Sales management; retrospect and prospect. H. R. Tosdal. Harvard Business R 21 no 1: 71-82 [S] '42

Trends within trends. Comm & Fin Chr 156: 1071 S 24 '42

See also

Budget, Business
Market statistics
Orders, Unfilled

BUSINESS hours. See Retail trade—Hours of business

BUSINESS information

Information (please) for business; Business branch of the Newark public library. Sales Management 50:2 Mr 1 '42

BUSINESS insurance. See Insurance, Business

BUSINESS interruption insurance. See Insurance, Use and occupancy

BUSINESS letters. See Commercial correspondence

BUSINESS libraries

Information (please) for business; Business branch of the Newark public library. Sales Management 50:2 Mr 1 '42

See also

Bank libraries

BUSINESS machines. See Office appliances

BUSINESS management

Bottom-up management; technique of William B. Given, jr. in building American brake shoe & foundry co. J. A. Murphy. Sales Management 50:18-21 My 15 '42

Business dares Washington to match its will to win. E. Whitmore. il Am Business 12: 7-9+ O '42

Conservation; portfolio of ideas and methods used by sound companies. il Am Business 12:21-36+ F '42

Corporate policy in 1942. L. P. Ayres. Bankers M 144:77-8 Ja '42

Critical appraisal of business statistics. J. S. Perkins. Am Statis Assn J 37:220-4 Je '42

Dynamic administration; the collected papers of Mary Parker Follett. H. C. Metcalf and L. Urwick, eds. 320p bibliog(p315-17) $3.50 Harper '42

Effect of size on efficiency. R. N. Anthony. Harvard Business R 20 no 3:290-306 [Ap] '42

Figures for management. G. R. Kleinau. N A C A Bul 23:848-54 F 15 '42

Financial policies of business enterprise. W. B. Taylor. 867p $4.25 Appleton-Century '42

Financial records of competitors. Management R 31:182-3 My '42

42 questions for limited budget advertiser to ask himself. J. Reiss. Ptr Ink 197:25+ N 21 '41

Free enterprise must save itself; proposed National price-limiting association. J. E. Webster. Advanced Management 7:117-22+ Jl-S '42

Getting things done in business. E. B. Wilson. 2d ed 287p $2.50 McGraw-Hill '42

How to organize and conduct postwar planning activities. S. A. Holme. il Ind Marketing 27:19-22 O '42

How we mobilized for peace; imaginary speech. W. Whitmore. Am Business 11:24-5+ N '41

Industrial fission; how Caterpillar is reproducing itself to meet new management problem of munitions-making subsidiary. Business Week p30+ Mr 28 '42

Insuring your business; sufficient coverage of important risks an essential to intelligent management. F. C. Crowell, jr. Barron's 22:3 Ag 17 '42

Insuring your business; tests for you and your agent. F. C. Crowell, jr. Barron's 22: 7 Ag 24 '42

Job for advertising: check constantly on four vital points of contact; with employees, business contacts, customers and the general public. A. J. Mott. Ptr Ink 200:19-20 Ag 28 '42

Management's adjustment to the changing national economy. W. N. Mitchell, ed. J Business 14:1-61 pt 2 O '41

No cave in Rockies for this live outfit; National brewing company. A. H. Deute. Ptr Ink 200:15-16+ S 25 '42

Post-war business planning now. Barron's 22:5 S 28 '42

Practical business methods; a modern guide to success; sections 1-20. pa $1.98 Blue ribbon books '42

Preparing for postwar problems; N.A.M. practical program for industry. Oil Paint & Drug Rep 142:3+ Ag 10 '42; Same cond. Management R 31:333-5 O '42

Principles and procedures for putting across business statistics reports to executives; presenting specific problem analyses. J. W. Boatwright. Am Statis Assn J 36:219-24 Je '41; Abstract. Management R 30:455-6 D '41

Product development, the ugly duckling of business. E. H. Schell. il Dun's R 50:7-12+ F '42

Realistic management platform for war times; B. T. Babbitt, New York. L. J. Gumpert. il Sales Management 51:18-20 Ag 15 '42

Relation between size and efficiency of business. J. M. Blair. bibliog R Econ Statis 24:125-35 Ag '42

BUSINESS management—*Continued*

Rôle of management in relation to consumer satisfaction. J. W. Young. J Business 14: 1-10 pt 2 O '41; Same. il Dun's R 50:7-10+ Mr '42

Sales promotion for the duration. H. G. Moock. Am Gas Assn Proc 1941:224-7

Symposium on the industrial economist. B. B. Smith and others. Harvard Business R 20 no 3:375-92 [Ap] '42

These ideas will cut costs in 1942. il Am Business 12:19-20 Ja '42; Abstract. Management R 31:45-6 F '42

Wartime guides for your business. W. H. Hillyer. Barron's 22:3-4 O 26 '42

Wartime shortages; their effect on civilian industries. R. L. Leger. il Dun's R 50: 13-17 Ap '42

What is a sound management policy for business today? interviews with scores of top executives. J. A. Murphy. Sales Management 50:14-17 Mr 1 '42

See also

Accounting
Auditing
Bookkeeping
Budget, Business
Business forecasting
Collecting of accounts
Complaints
Corporations
Corporations—Directors
Credit
Credit departments
Credit managers
Delivery of goods
Department stores—Management
Efficiency, Industrial
Employment management
Executives
Factory management
Files and filing (documents, etc.)
Ideas in business
Industrial management
Instalment plan
Insurance, Business
Inventories
Jobbers
Mail order business
Marketing
Merchandizing
Office management
Organization in industry
Overhead expense
Planning
Profit
Purchasing
Retail trade—Store management
Sales management
Sales policies
Sales promotion
Show windows
Success
Trade marks
Waste

Bibliography

Financial management; abstracts. Published in monthly numbers of Management review

Management. (Business literature v 14, no 9-10) ea 2p Business branch, Newark public lib, Newark, N.J. My-Je '42

BUSINESS men

Soldiers of American business; armed with brief cases and determination, they're winning the battle of production. V. B. Guthrie. Nat Pet N 34:34-6 Jl 15 '42

See also

Executives

BUSINESS periodicals

See also

Advertising mediums—Trade journals
Trade journals

BUSINESS reports. See Business—Reports

BUSINESS research

American economy during and after the war; a look ahead. N. H. Jacoby. J Business 15:289-305 O '42

Business research for railroads. G. Rugge. Ry Age 113:604-7, 644-7 O 17-24 '42

Business research projects, 1941. U S Bur For & Dom Com, Economic Ser 16:1-173; pa 20c Supt. of doc. '41

Principles and procedures for putting across business statistics reports to executives; presenting specific problem analyses. J. W. Boatwright. Am Statis Assn J 36:219-24 Je '41; Abstract. Management R 30:455-6 D '41

Proceedings of the Ohio conference of statisticians on business research, 1941. 76p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '41

See also

Advertising research
Market research

BUSINESS schools and colleges

Women graduates of a collegiate school of business. A. Brewington and E. V. Berg. bibliog J Business 15:1-99 pt 2 Ja '42

See also

Business education

BUSINESS statistics

Benchmarks of business health; 14 ratios for 72 lines. R. A. Foulke. Dun's R 49:5-10 D '41

Business analyst; statistics of industry, trade, commodities; money and credit. Published in bi-weekly numbers of Magazine of Wall Street

Business indexes; industrial production; construction contracts, employment, etc; index totals, 1919-1941, monthly Aug. 1938-Dec. 1941. Fed Res Bul 28:53 Ja '42 [cont monthly]

Business statistics. M. A. Brumbaugh, L. S. Kellogg and I. J. Graham. 913p $4 R. D. Irwin, 332 S. Michigan av, Chicago '41

Critical appraisal of business statistics. J. S. Perkins. Am Statis Assn J 37:220-4 Je '42

Current statistics for Federal reserve chart book on bank credit, money rates, and business. Fed Res Bul 28:66-8 Ja '42 [cont monthly]

Estimates of annual business inventories, 1928-41. W. D. Hance. Survey of Cur Business 22:13-19 S '42

Government statistical requirements stressed at meeting of Controllers institute. E. C. Peet. Comm & Fin Chr 156:1092 S 24 '42

Graphic picture of the U.S. war economy; index numbers and other figures for department store sales; industrial production, etc. 1940, and estimates, 1941 and 1942. Mag of Wall St 69:300-1 D 27 '41

Industry on war footing as it enters 1942; statistical survey: index numbers and charts. Steel 110:212-19 Ja 5 '42

Revised weekly business statistics, 1939-41; figures of wholesale prices, distribution, finance, production, etc. Survey of Cur Business 21:24-6 N '41

Significant business indicators. Dun's R 50:28 Ja '42 [cont monthly]

Summary table: selected business indicators for specified years and percentage changes, 1929, 1933, 1937, 1939-1941. Survey of Cur Business 22:63-4 F '42

Through the statistician's eyes; graphic reviews. Dun's R 50:26-7 Ja '42 [cont monthly]

Trend of business; production, payrolls, department store sales, commodity prices, stock prices. Dun's R 50:24-5 Ja '42 [cont monthly]

See also

Business conditions
Business forecasting
Commercial statistics
Index numbers (economics)
Industrial statistics
Manufactures—Statistics
Market research
Market statistics
Prices—Statistics
Sales statistics

BUSINESS women

Lady succeeds in silica sand business. Rock Prod 45:32 S '42

Women graduates of a collegiate school of business. A. Brewington and E. V. Berg. bibliog J Business 15:1-99 pt 2 Ja '42

See also

Woman—Employment
Women as executives

BUSINESS writing

Theory of business communication. O. W. Phelps. diag J Business 15:343-60 O '42

BUSINESS year. See Fiscal year

BUTADIENE

Alcohol-rubber gets support of big names in farm bloc. Nat Pet N 34:13 My 13 '42

Butadiene from butylene; eleven catalysts tested. Chem Age (Lond) 47:282 S 26 '42

Butadiene is real bottleneck in synthetic-rubber program. J. P. O'Donnell. il Oil & Gas J 40:128, 130+ Mr 26 '42

Butadiene placed under complete priority control. Oil & Gas J 41:47 Jl 2 '42

Butadiene rubber still main key in relieving shortage. Oil & Gas J 41:29-30 Je 4 '42

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:34 Jl 23 '42

Chemistry of butadiene from farm crops. Nat Pet N 34 pt 2:R385-6 O 28 '42

Chemistry of making butadiene (for rubber). W. L. Nelson. Oil & Gas J 41:54 O 8 '42

Conversion of refineries to war production explained. H. S. Norman. Oil & Gas J 41:13-14 Ag 6 '42

Converting standard compressors for service in butadiene plants. B. C. Thiel. il Nat Pet N 34 pt 2:R254-5 Ag 26 '42

Determination of butadiene stock for rubber manufacture. diags Oil & Gas J 40:41+ Ja 22 '42

Developments in the synthetic rubber situation. Rubber Age 51:413 Ag '42

Five steps for making butadiene in thermal cracking furnaces. il Nat Pet N 34:18+ Ag 5 '42

Furfural and dichlorethyl ether conserved to assure ample supply at butadiene plants. Oil & Gas J 41:61 S 17 '42

Houdry claims faster and less costly process for butadiene. il Oil & Gas J 41:24-5 Jl 16 '42

Houdry opens attack on butadiene program. Nat Pet N 34:3-4, 14-19 Jl 15 '42

Houdry process; campaign to have War production board adopt process of producing butadiene from petroleum. Rubber Age 51:315-16 Jl '42

Houdry process described; abstract. C. H. Thayer. India Rubber W 106:591 S '42

Houdry quick butadiene process runs on assembled equipment. flow diag Nat Pet N 34 pt 2:R249 Ag 26 '42

Houdry two-stage dehydrogenation catalytic process for manufacture of butadiene. C. H. Thayer, R. C. Lassiat and E. R. Lederer. il Nat Pet N 34 pt 2:R305-6 S 30 '42; Same. Automotive & Aviation Ind 87: 30-2 O 15 '42; Same. Pet Eng 14:29-30 O '42; Same. Rubber Age 52:39-41 O '42; Same. Mech Eng 64:777-8 N '42; Same. Chem & Met Eng 49:116-17 N '42

Industrial progress in synthetic rubberlike polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42

Isobutylene recovery urged to increase rubber output. diag Oil & Gas J 41:15 Ag 6 '42

Make butadiene by catalytic dehydrogenation of butane. W. T. Ziegenhain. diags Oil & Gas J 41:30-1 Ag 20 '42

Manufacture of synthetic rubber. G. B. Murphy. bibliog il Nat Pet N 34:R51-2, R54, R56-7 F 18 '42

Materials needs compared for butadiene processes. Nat Pet N 34:16 Je 10 '42

Methods of preparing butadiene. G. Egloff and G. Hulla. Oil & Gas J 41:40-1, 43 N 5; 228-33 N 12 '42 (to be cont)

OPC's quick product plan dates from early February. Nat Pet N 34:14-15 Ag 19 '42

Oil industry's part in rubber plans may benefit by probe. H. D. Ralph. il Oil & Gas J 41:24-5 Ag 27 '42

100-octane gas supply boosted with butadiene by-products. flow diag Nat Pet N 34 pt 2: R248 Ag 26 '42

Petroleum rubber route more economical than alcohol. H. D. Ralph. il Oil & Gas J 41: 26-7+ Ag 13 '42

Priorities trouble delays 2 alcohol-butadiene units. Nat Pet N 34:15-16 My 20 '42

Production of butadiene by single-stage catalytic dehydrogenation of butane. V. I. Komarewsky and C. H. Reisz. flow sheet bibliog diag Oil & Gas J 41:33, 37, 39 S 17 '42

Progress of butadiene production. A. L. Elder. il Ind & Eng Chem 34:1260-6 N '42

Quick butadiene: the oil industry's answer. il Nat Pet N 34:14-16, 18 Ag 5 '42

Recent advances of catalysis in chemical process industries; recent applications. Chem & Met Eng 49:109-10 O '42

Recovery of butadiene from petroleum and petroleum products. W. L. Nelson. bibliog Oil & Gas J 41:50 Ag 6 '42

Refiners shift into high in quick conversion program. H. D. Ralph. Oil & Gas J 41: 12 Ag 6 '42

Refinery conversion favored in raising butadiene output. Oil & Gas J 41:23 S 17 '42

Resurvey of butadiene plans fails to justify revision. Oil & Gas J 41:14-16 Jl 23 '42

Review of butadiene gives insight to rubber program. A. L. Elder. Oil & Gas J 41:15, 92 S 17 '42; Abstracts. Oil Paint & Drug Rep 142:37 S 21 '42; Chem Ind 51:526 O '42

Seek emergency source from small refiners as butadiene shortage hits rubber program. Nat Pet N 34:15-16 My 27 '42

Soap in the rubber crisis; synthetic rubber calls for the use of 100,000,000 pounds of tallow chip soap yearly in butadiene manufacture. il Soap & San Chem 18:28-31 N '42

S. O. advertises to clarify stand on synthetic rubber; fourteen oil companies, six chemical and one rayon firm, slated to turn out butadiene and styrene. Sales Management 51:44-5 Ag 1 '42

Story of rubber from corn unfolds at Senate hearing; W. Szukiewicz's invention for making butadiene from alcohol. Nat Pet N 34:16 My 6 '42

Sufficient butane can be made available for synthetic rubber. W. L. Nelson. il Oil & Gas J 40:199-200 Ja 29 '42

Synthetic rubbers to meet requirements of natural rubber in industry. C. C. Pryor. Pet Eng 13:127-8 My '42

Thermal reaction of ethylene with acetylene. E. A. Naragon, R. E. Burk and H. P. Lankelma. bibliog Ind & Eng Chem 34: 355-8 Mr '42

Under Baruch plan, OPC would control operations of oil-butadiene projects. Nat Pet N 34:13 S 16 '42

Unsaturation of synthetic rubberlike materials. L. E. Cheyney and E. J. Kelley. bibliog(37 references) Ind & Eng Chem 34:1323-6 N '42

WPB studies Houdry process for manufacturing butadiene. Nat Pet N 34:16 Jl 8 '42

Storage

Storing butadiene at low temperature shown to save steel and decrease costs. diag Nat Pet N 34 pt 2:R361-2 O 28 '42

BUTANE

Blending to improve refinery products; road tests provide important data on motor fuel; net effect of blending with butane and *iso*butane. R. G. Lovell. il Pet Eng 13: 41+ F '42

Butane as a source of motor fuel volatility. J. W. Vaiden and J. O'Reilly. Pet Eng 13: 116, 118+ My '42

Butane supply ample for 100-octane and rubber. G. G. Oberfell. Nat Pet N 34:17 Je 17 '42

Carbon-carbon bond strengths in ethane, propane, and *n*-butane. E. R. Van Artsdalen. J Chem Phys 10:653 O '42

Compressibilities of gaseous mixtures of methane and normal butane; the equation of state for gas mixtures. J. A. Beattie, W. H. Stockmayer and H. G. Ingersoll. bibliog J Chem Phys 9:871-4 D '41

Compressor-absorption type gasoline plant produces four products. F. H. Love. il Pet Eng 13:149-50, 152 My '42

Customers first; mains later; selling butane in outlying districts; Jacksonville gas company. W. H. Duguid. il Gas Age 90:10-11 Ag 27 '42

BUTANE—*Continued*

Delivering dry gases in old manufactured gas systems; natural gas and butane-air gas. O. L. Kowalke. Gas Age 90:13-14+ Jl 30 '42

Determination of the Lennard-Jones parameters from second virial coefficients; tabulation of the second virial coefficient. W. H. Stockmayer and J. A. Beattie. J Chem Phys 10:476-7 Jl '42

$400,000,000 rubber program presents problems to refiners. W. L. Nelson. Oil & Gas J 40:19 Ja 15 '42

Higher butane recovery urged. R. K. Davis. Oil & Gas J 40:29 Ja 15 '42

Indigenous fuels; gaseous paraffins for transport purposes. Automobile Eng 31:413-14 N '41

Ionization and dissociation by electron impact: normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42

Isolation of hydrocarbon stocks for 100-octane aviation fuel. W. L. Nelson. diags Oil & Gas J 40:38-9 Ja 8 '42

Make butadiene by catalytic dehydrogenation of butane. W. T. Ziegenhain. diags Oil & Gas J 41:30-1 Ag 20 '42

Natural-gasoline producers warned parade is passing; manufacturers should become active in supplying butanes and propanes for the manufacture of butadiene, styrene and toluene. D. E. Buchanan. Oil & Gas J 41:28+ My 21 '42

New practices improve crude and products line operation. J. G. Norton. il diag Oil & Gas J 41:78-9, 170 S 24 '42

New process for catalytic conversion of normal into iso-butane. Nat Pet N 34:R194-5 Je 10 '42

Power from butane. J. F. Maher. il Power 86:132 F '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Production of butadiene by single-stage catalytic dehydrogenation of butane. V. I. Komarewsky and C. H. Reisz. flow sheet bibliog diag Oil & Gas J 41:33, 37, 39 S 17 '42

Propane, a substitute for butane in motor fuels. R. C. Alden, H. M. Trimble and L. A. McReynolds. bibliog Oil & Gas J 40:80-1+ Mr 26 '42

Propane replacing butane in bottle gases. Oil & Gas J 41:38 N 5 '42

Report of the Philgas department of the Phillips petroleum company. F. T. Carpenter. Am Gas Assn Proc 1941:559-60

Rubber, 100-octane fuel need large volume of base stocks. W. L. Nelson. il Oil & Gas J 40:10-11 Ja 22 '42

Second virial coefficient for gas mixtures. J. A. Beattie and W. H. Stockmayer. bibliog J Chem Phys 10:473-6 Jl '42

Standby systems solve fuel problem for two different glass plants; Fostoria glass co. uses butane-propane gas; Imperial glass co. uses oil. il Cer Ind 39:34-6 S '42

Strength of carbon-hydrogen and carbon-carbon bonds. D. P. Stevenson. bibliog diag J Chem Phys 10:291-4 My '42

Sufficient butane can be made available for synthetic rubber. W. L. Nelson. il Oil & Gas J 40:199-200 Ja 29 '42

Viscosity of propane, butane, and isobutane. M. R. Lipkin, J. A. Davison and S. S. Kurtz, jr. bibliog diags Ind & Eng Chem 34:976-8 Ag '42

BUTANEDIONE

Acylation of the di-enolate of 1,4-dimesitylbutanedione-1,4. R. E. Lutz, W. G. Reveley and V. R. Mattox. Am Chem Soc J 63:3171-4 N '41

Acylation of the di-enolate of 1,4-dimesityl-2-phenylbutanedione-1,4. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3175-8 N '41

Stereochemistry of the enols and di-enols of 2-*t*-butyl-1,4-dimesitylbutanedione-1,4; a proof of 1,4-reduction of an α-bromoketone. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3180-9 N '41

BUTANOL. See Butyl alcohol

BUTANONE

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:211 S 24 '42

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

BUTENE

Alkylation of paraffins at low temperatures in the presence of aluminum chloride. H. Pines, A. V. Grosse and V. N. Ipatieff. diags Am Chem Soc J 64:33-6 Ja '42

Micromethod for identification of volatile liquids; vapor pressure, boiling point, and olefin content of cyclobutane and *cis*-2-butene. S. W. Benson. bibliog Ind & Eng Chem Anal ed 14:189-91 F 15 '42

New process increases butene output for synthetic rubber. India Rubber W 106:267 Je '42

Solubility of polybutene in pure solvents. H. C. Evans and D. W. Young. bibliog Ind & Eng Chem 34:461-6 Ap '42

BUTENYL chlorides

Allylic rearrangements; kinetics and mechanisms of the conversion of crotyl and methylvinylcarbinyl chlorides to acetates and ethyl ethers. J. D. Roberts, W. G. Young and S. Winstein. bibliog Am Chem Soc J 64:2157-64 S '42

BUTLER brothers

Consolidated income account, 1939-1941. Comm & Fin Chr 155:2274 Je 15 '42

Frank S. Cunningham. Ptr Ink 197:17-18 D 5 '41

Low priced preferred stock. H. Lawrence. Barron's 22:20 Mr 16 '42

BUTOXY compounds

Acetylenic ethers; ethoxy- and butoxyacetylene. T. L. Jacobs, R. Cramer and J. E. Hanson. bibliog Am Chem Soc J 64:223-6 F '42

BUTTER

Butter seems a candidate for rationing. Barron's 22:6 N 2 '42

Butter's problems. Barron's 21:6 N 24 '41

Distribution of salt in butter and its effect on bacterial action; abstract. W. H. Hoecker. Food Ind 14:101 F '42

Factors influencing bacterial growth in butter; abstract. B. W. Hammer and H. F. Long. Food Ind 14:105 S '42

Feeding of cows controls vitamin A content of butter. S. M. Hauge. Food Ind 14:48-9+ F '42

Potential uses of emulsion from melted butter production in baking; abstract. A. Schloemer. Food Ind 14:101 My '42

Practical buttermaking; a manual for buttermakers. G. H. Wilster. 2d ed rev 180p bibliog(p178-9) pa $2.50 OSC cooperative assn, box 490, Corvallis, Ore. '41

Analysis

Distribution of salt in butter; a volumetric micromethod. C. L. Ogg and others. diags Ind & Eng Chem Anal ed 14:285-6 Mr 15 '42

Milk fats from cows fed on fresh pasture and ensiled green fodder; estimation of vitamin-*A* activity. R. A. Morton, J. W. Lord and T. W. Goodwin. Soc Chem Ind J 60:310-13 D '41

BUTTER, Dried

Dehydrated butter; results of research in New Zealand. C. M. Birkett. Chem Age (Lond) 47:61 Jl 18 '42

Drying butterfat, interesting process devised; abstract. Food Ind 14:114 O '42

BUTTER yellow. See Dimethylaminoazobenzene

BUTTONS

Button, button, who's got the button? Ecuador's vegetable ivory provides the answer for U.S. military uniforms. il For Comm W 6:6-7, 32-3 Ja 31 '42

Button classics. L. E. Couse and M. Maple. 249p $5 Lightner pub. co, Chicago '41

Button collector's second journal. L. S. Albert. 333p bibliog(p256-7) $3.50 Lillian Smith Albert, Hightstown, N.J. '41

BUTYL acenaphthene

Acenaphthene series; mono- and di-*tert*.-butyl-acenaphthene, -acenaphthenequinone, and -naphthalic anhydride, and their derivatives. A. T. Peters. Chem Soc J p562-5 S '42

BUTYL acetate

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

BUTYL alcohol

Acetone, butyl solvents by fermentation down. Oil Paint & Drug Rep 142:3+ Ag 24 '42

Action of hydrogen fluoride, sulfuric acid and phosphoric acid on optically active 2-butanol. R. L. Burwell, jr. bibliog Am Chem Soc J 64:1025-31 My '42

Alkylation of benzene in the presence of acid catalysts. R. L. Burwell, jr. and S. Archer. bibliog Am Chem Soc J 64:1032-4 My '42

Effect of salts on the mutual miscibility of normal butyl alcohol and water. L. A. Reber, W. M. McNabb and W. W. Lucasse. bibliog J Phys Chem 46:500-15 Ap '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

Hydration of ethylenic linkage; the equilibrium between isobutene, *t*-butyl alcohol and water. C. W. Smart and others. Am Chem Soc J 63:3000-2 N '41

Lignins isolated in the presence of butanol. H. Y. Charbonnier. bibliog Paper Tr J 114:31-6 Mr 12 '42

Orientation effects in the alkylation of *m*-xylene by various procedures and reagents. D. Nightingale, H. D. Radford and O. G. Shanholtzer. bibliog Am Chem Soc J 64:1662-5 Jl '42

Recovery of butanol in butanol pulping; effected quantitatively by azeotropic distillation and by extraction with isopropyl ether. A. J. Bailey. bibliog diag Ind & Eng Chem 34:483-5 Ap '42

Use of tertiary butyl alcohol in microtechnique. R. E. Stowell. Science 96:165-6 Ag 14 '42

BUTYLAMINE

Catalytic effect of electrolytes on solvolytic reactions; reactions between *n*-butylamine and ethyl phenylacetate and between liquid ammonia and ethyl benzoate. L. F. Audrieth, L. D. Scott and O. F. Hill. Am Chem Soc J 64:2498-9 O '42

Catalytic effect of water on the aminolysis of ethyl phenylacetate in *n*-butylamine. P. K. Glasoe, L. D. Scott and L. F. Audrieth. Am Chem Soc J 63:2965-7 N '41

Thermal decomposition of *n*-butylamine. H. C. Beachell and H. A. Taylor. J Chem Phys 10:106-10 F '42

BUTYLBORON oxide

Oxidation of *n*-butylboron oxide. O. Grummitt. bibliog diag Am Chem Soc J 64:1811-14 Ag '42

BUTYL bromide

Kinetic study of the reactions of *n*-butyl bromide with the sodium salts of phenol, thiophenol and *n*-butyl mercaptan. O. R. Quayle and E. E. Royals. bibliog Am Chem Soc J 64:226-30 F '42

BUTYL chloride

Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. A. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

Equilibrium diagram of the system carbon tetrachloride-*t*-butyl chloride as revealed by dielectric constant measurements. W. P. Conner and C. P. Smyth. Am Chem Soc J 63:3424-8 D '41

Kinetics of the hydrogen fluoride catalyzed reaction between toluene and *t*-butyl chloride. J. W. Sprauer and J. H. Simons. diag Am Chem Soc J 64:648-59 Mr '42

BUTYL dichlorophenol

Rearrangement of 4-crotyloxy-3,5-dichlorobenzoic acid. D. S. Tarbell and J. W. Wilson. bibliog Am Chem Soc J 64:1066-70 My '42

BUTYLDOCOSANE

Higher hydrocarbons; seven alkyl substituted docosanes. F. C. Whitmore, L. H. Sutherland and J. N. Cosby. bibliog Am Chem Soc J 64:1360-4 Je '42

BUTYL group

Reduction of dipole moment by steric hindrance in di-*t*-butylhydroquinone and its dimethyl ether. P. F. Oesper, C. P. Smyth and M. S. Kharasch. bibliog Am Chem Soc J 64:937-40 Ap '42

BUTYL lithium. See Lithium compounds

BUTYL naphthalic anhydride

Acenaphthene series; mono- and di-*tert*.-butyl-acenaphthene, -acenaphthenequinone, and -naphthalic anhydride, and their derivatives. A. T. Peters. Chem Soc J p562-5 S '42

BUTYL nitrate

Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

BUTYL rubber. See Rubber, Artificial

BUTYL trimethylbenzoate

Cleavage of the alkyl-oxygen bond in the hydrolysis of esters; *t*-butyl 2,4,6-trimethylbenzoate. S. G. Cohen and A. Schneider. bibliog Am Chem Soc J 63:3382-8 D '41

BUTYLENE

Butadiene from butylene; eleven catalysts tested. Chem Age (Lond) 47:282 S 26 '42

Butylene supply inadequate Pew claims; asks showdown. Nat Pet N 34:20+ Ag 5 '42

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33:1540-4 D '41

Replacing butylenes with pentylenes for alkylates. W. L. Nelson. Oil & Gas J 41:53 S 10 '42

BUTYLENE glycol

Butylene glycol from corn by fermentation. il Chem & Met Eng 49:95 O '42

Chemistry of butadiene from farm crops. Nat Pet N 34 pt 2:R385-6 O 28 '42

New process for making butylene glycol developed. Chem & Eng N 20:970-1 Ag 10 '42

BUTYNE

Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

BUTYRALDEHYDE

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

BUTYRIC acid

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

BUTYRIC acid—*Continued*

Properties of cellulose esters of acetic, propionic, and butyric acids. C. J. Malm, C. R. Fordyce and H. A. Tanner. Ind & Eng Chem 34:430-5 Ap '42

BUYING. See Purchasing

BUYING habits

Backyard boom; run on barbecue grills, lawn furniture, and croquet sets. Business Week p54+ Je 27 '42

Dayton workers largely debt-free; future spending plans highly uncertain. P. Salisbury. Sales Management 51:62-4 Jl 1 '42

Dispersion of consumer purchases among competing retail outlets. H. D. Wolfe. J Business 15:160-5 Ap '42

Market that lives upside down; quick picture of the night-shift worker, his buying habits, needs and complaints. G. Bijur. diag Adv & Sell 35:13-15+ Ap '42; Abstract. Management R 31:135-7 Ap '42

Merchandise availability in Utah. D. E. Faville, D. M. Jones and R. B. Sonne. 229p $3 Stanford univ. press '42

Trend in soap buying habits; Milwaukee survey. Soap & San Chem 18:25-7 My '42

What sugar-rationing will do to buying habits; 1200 housewives report. J. Nathan. il Adv & Sell 35:22 Je '42

See also

Consumers
Men as purchasers
Women as purchasers

BUYING power. See Consumption (economics); Market statistics

BYOIR, Carl, 1888-

Byoir, space buyer; public relations expert forms Institutional advertisers, inc, to write good-will copy and place ads for clients. Business Week p45-6 Ja 17 '42

BY-PRODUCTS. See subdivision By-products under special subjects, e.g. Coke manufacture—By-products; Gas manufacture—By-products

BYRNES, James Francis, 1879-

Byrnes named Economic stabilization director; to develop comprehensive national policy. Comm & Fin Chr 156:1273 O 8 '42

From Washington; nation's economic czar. Comm & Fin Chr 156:1633+ N 5 '42

Is inflation stopped? what the new controls can and can not do. W. Gates. Mag of Wall St 71:12-13+ O 17 '42

No. 1 stabilizer. por Business Week p17-18 N 7 '42

C

CABINETS

Interior details: study unit. il plans Arch Rec 92:57 S '42

CABINETS, Kitchen. See Kitchen cabinets

CABINS

200 prefabricated cabins, Vallejo, Calif.; views, plans, and construction outline. Arch Forum 76:337 My '42

CABLE cars. See Railroads, Cable

CABLE laying machines

Recent developments in burying telephone cables. D. Fisher and T. C. Smith. il Elec Eng 61:Trans 169-74 Ap '42

CABLE reels

Handling cables at Shasta dam. il Eng N 128:453 Mr 19 '42

CABLES

Cable-supported roof for grain storage. il Eng N 127:882-3 D 18 '41

Data and observations on cable conveyor performance; report of the wood handling subcommittee, Canadian pulp and paper association. Pulp & Pa of Can (Convention no) 43:101-8 [F] '42

War maintenance; wire rope and cable. il Coal Age 47:110-12 O '42

See also

Bridges, Suspension
Cableways
Electric cables
Telephone cables
Wire rope

CABLES, Electric. See Electric cables

CABLES, Submarine

Compression testing rubber compounds used in submarine cables. F. L. Downs. il India Rubber W 106:39-42 Ap '42

See also

Telephone, Submarine

CABLEWAYS

Cableway system of distributing concrete found ideal on big dam project; Shasta dam. il plan Concrete 50:2-4 F '42

Flexible design features Summerlee refuse-disposal tram. J. E. Howard. il diags Coal Age 46:59-62 D '41; Excerpts. Mech Handling 29:71-2 Ap '42

New aerial tramway for Tungstar. Eng & Min J 143:64-5 S '42

New Swedish ropeway with record capacity. For Comm W 8:17 Ag 8 '42

Polarized control used on ski lift, Mt. Hood, Oregon. W. K. Nelson and R. W. Hutchinson. diag Elec W 117:312+ Ja 24 '42

Ship-loading by ropeway. il diags plan Mech Handling 29:43-5 Mr '42

See also

Conveying machinery

CABOOSE cars. See Cars, Caboose

CABUYA fiber. See Textile fibers

CACAO

Production of coffee and cacao in Haiti. For Comm W 8:21 Jl 25 '42

See also

Cocoa

CADINENE

Structure of cadinene. W. P. Campbell and M. D. Soffer. bibliog Am Chem Soc J 64:417-25 F '42

CADMIUM

Cadmium added to list of metals controlled by Ministry of supply. Economist 142:52 Ja 10 '42

Cadmium applications. Product Eng 13:105-6 F '42

Cadmium distribution and use restricted. Oil Paint & Drug Rep 141:5+ Ja 26 '42

Cadmium production, 1941. Can Min J 63:175 Mr '42

Cadmium supplies. Economist 143:281 Ag 29 '42

Interaction of slow neutrons with nuclei. H. Carroll. bibliog diags Phys R 60:702-9 N 15 '41

Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42

Minor metals, 1941. A. F. Matthews. Eng & Min J 143:50-1 F '42

Polymerization of ethylene photosensitized by 5^1P_1 cadmium atoms. E. W. R. Steacie and D. J. LeRoy. bibliog il diag J Chem Phys 10:22-34 Ja '42

Analysis

Determination by the dropping-mercury-electrode procedure of lead, cadmium, and zinc in samples collected in industrial-hygiene studies. F. L. Feicht, H. H. Schrenk and C. E. Brown. bibliog pls U S Bur Mines Rep of Invest 3639:1-20 '42

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

CADMIUM alloys

Cadmium applications. Product Eng 13:105-6 F '42

CADMIUM compounds

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

CADMIUM compounds—*Continued*
Some observations upon the precipitation of hydrous cadmium hydroxide in the presence of certain anions. T. Moeller and P. W. Rhymer. bibliog J Phys Chem 46:477-85 Ap '42

CADMIUM fluoride
Absorption spectra of CdF and SnCl. C. A. Fowler, jr. il Phys R 62:141-3 Ag 1 '42

CADMIUM halides
Some heats of dilution and related thermal quantities of aqueous cadmium chloride, bromide, and iodide solutions. A. L. Robinson and W. E. Wallace. bibliog Chem R 30:195-209 Ap '42

CADMIUM hydroxide
Some observations upon the precipitation of hydrous cadmium hydroxide in the presence of certain anions. T. Moeller and P. W. Rhymer. bibliog J Phys Chem 46:477-85 Ap '42

CADMIUM nitrate
Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

CADMIUM plating
Aircraft electroplating. R. R. Janssen. diag Metal Finishing 40:248-9 My '42; Same. Steel 111:162-3 D 7 '42
Cadmium plating in the victory program. A. J. Fusco and N. E. Woldman. il diags Iron Age 149:46-52 Mr 19 '42
Corrosion resistance afforded by bright dipped cadmium coatings. G. Soderberg. Electrochem Soc Trans 82 (preprint 14):141-4 O '42
Interpretation of the mechanism of bright electroplating. J. A. Henricks. bibliog Electrochem Soc Trans 82 (preprint 22):237-56 O '42
Rust-proofing cadmium plated aircraft tubular parts. B. Gross. il Iron Age 150:52-3 Jl 30 '42
Study of the mechanism by which colloids (dextrin) influence electroplating with zinc and cadmium; abstract. P. F. Mikhalev. Chem & Met Eng 49:162-3 Ap '42

Testing

Report on dropping tests for zinc and cadmium coatings. W. E. Buck. Metal Finishing 40:242+ My '42

CADMIUM poisoning
Cadmium food poisoning. S. Frant and I. Kleeman. bibliog Metal Finishing 40:131-4 Mr '42
Cadmium; hazards and precautions. Nat Safety N 46:86, 88 O '42
Cadmium poisoning. Pub Health Rep 57:601-12 bibliog(109 titles, p609-12) Ap 24 '42; Same cond. Heat & Ven 39:33-4 S '42
Cadmium poisoning in metal salvaging and smelting plant; abstract. A. V. Nasatir. J Ind Hygiene 24:sup12 Ja '42
Illnesses traced to cadmium food containers. H. O. Calvery. Metal Finishing 40:134-5 Mr '42
New cadmium standard protects workers' health. C. Ainsworth. Ind Stand 12:317-18 D '41
Trace cadmium poisoning to food containers. Nat Safety N 45:92 F '42

CADMIUM sulfate
Relation of electromotive force to the concentration of deuterium oxide in saturated standard cells. L. H. Brickwedde and G. W. Vinal. bibliog J Research Nat Bur Stand 27:479-89 D '41

CADMIUM sulfide
Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

CAESIUM. See Cesium

CAFESTEROL
Chemical behavior of cafesterol. P. N. Chakravorty and M. M. Wesner. Am Chem Soc J 64:2235 S '42

CAFETERIAS, Employees'. See Lunchrooms and cafeterias, Employees'

CAFFEIN
Caffeine, theobromine allocated Oct. 1. Oil Paint & Drug Rep 142:7 S 7 '42
Facts about caffeine, theobromine in foods. P. W. Punnett. il Food Ind 14:52-3+ Mr '42
How caffeine restrictions affect cola drink manufacturers. Barron's 22:9 S 21 '42
Use of double work periods in the study of fatigue and the influence of caffein' on recovery; abstract. E. Foltz, A. C. Ivy and C. J. Barborka. J Ind Hygiene 24:sup115 Je '42
Volumetric determination of bismuth as caffeine tetraiodobismuthate (III). R. S. Beale and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14:43-4 Ja 15 '42
Yerba mate to be used as source of caffeine. Oil Paint & Drug Rep 142:7+ Ag 31 '42

CAISSONS
Delaware aqueduct. il plans Engineer 174:184-6, 208-10 S 4-11 '42
Open steel caissons for cast-in-place piles; foundation for grain elevator, Buffalo, N.Y. G. B. Sowers. il Eng N 127:717 N 20 '41
Suction type caisson expedites work under water. il Eng N 128:584 Ap 16 '42

See also
Bridges—Foundations and piers

CAJEPUT oil
Tea-tree oils. E. S. Guenther. bibliog il Soap & San Chem 18:23-5+ Ag '42

CAKE
Beating and baking properties of dried egg. E. B. Bennion, J. R. Hawthorne and E. C. Bate-Smith. Soc Chem Ind J 61:31-4 F '42
Effect of glyceryl monostearate on the baking properties of cakes; abstract. R. Daum. E. G. Halliday and W. F. Hinman. Food Ind 14:113 O '42
Near 'ems don't count; experiments in keeping cake fresh. W. R. Van Meter. il Food Ind 14:39-40+ My '42
System is the key to controlled quality; Kingston cake co., Kingston, Pa. W. R. Van Meter. il diag Food Ind 14:54-6 Ap '42

CALAVO. See Avocados

CALCIFICATION
Phosphorylative glycogenolysis and calcification in cartilage. A. B. Gutman, F. B. Warrick and E. B. Gutman. bibliog Science 95:461-2 My 1 '42

CALCIUM
Atomic weight comparisons from density and X-ray data: fluorine, calcium, and carbon. C. A. Hutchison. J Chem Phys 10:489-90 Jl '42
Calcium metal production, a new American industry. A. B. Kinzel. il Min & Met 22:488-90 O '41; Abstract. Metal Prog 41:574+ Ap '42
Determination of strontium in the presence of calcium. P. B. Stewart and K. A. Kobe. Ind & Eng Chem Anal ed 14:298-9 Ap 15 '42
Effects of Ca and other divalent ions on the accumulation of monovalent ions by barley root cells. F. G. Viets, jr. Science 95:486-7 My 8 '42
It's the little things that count; off-flavors, rancidity, etc. can often be traced to presence of minute quantities of metals, acting as catalysts. J. A. Dunn. Food Ind 14:41-4+ Ag '42

Analysis

Calcium in calcium-lead alloys. E. E. Schumacher and G. M. Bouton. il diag Metals & Alloys 14:865-7 D '41; Same. Bell System Tech J 20:434-8 O '41
Determination of calcium in the presence of magnesium by standard soap solution; a rapid titration method. J. W. Polsky and others. bibliog Ind & Eng Chem Anal ed 14:644-6 Ag 15 '42
Lundegärdh apparatus; its construction and use. J. A. C. McClelland and H. K. Whalley. il diags Soc Chem Ind J 60:288-91 N '41

CALCIUM alloys

Alkaline earth metals and their alloys; increasing technical importance. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 47:107-11 Ag 1 '42

X-ray study of the calcium-strontium alloy series. A. J. King. Am Chem Soc J 64:1226-7 My '42

CALCIUM aluminates

Aluminates of calcium; structure of anhydrous and hydrated calcium aluminates correlated with cement disintegration. T. Thorvaldson. Can Chem & Process Ind 26:172-4 Mr '42

Relationship of the garnet-hydrogarnet series to the sulfate resistance of portland cements. E. P. Flint and L. S. Wells. bibliog J Research Nat Bur Stand 27:171-80 Ag '41; Same. Concrete (mill sec) 49:253-5; 50:161-2 O '41, Ap '42

Structure of tricalcium aluminate. H. F. McMurdie. bibliog J Research Nat Bur Stand 27:499-505 D '41; Excerpts. Concrete (mill sec) 50:144 Mr '42

CALCIUM bisulfite

Forty years of progress; much progress made in acid making. H. Anvik. Pulp & Pa of Can 43:585-7 Jl '42

CALCIUM carbide

Manufacture

Electric arc furnace. T. F. Wall. diags Engineer 174:229-30 S 18 '42

Pioneering in electrochemistry. R. A. Witherspoon. il Can Chem & Process Ind 26:395-400 Jl '42

CALCIUM carbonate

Acidity of bread containing calcium carbonate. P. Halton. Soc Chem Ind J 61:77-80 My '42

Calcium bicarbonate removal from water in sulphate mills. H. W. Frazer. diag Paper Tr J 114:31-4 Ap 2 '42

Calcium carbonate saturation index and alkalinity interpretations. T. E. Larson and A. M. Buswell. Am Water Works Assn J 34:1667-78 bibliog(p1678); Discussion. 1679-84 N '42

Dielectric constant, power factor, and conductivity of the system rubber-calcium carbonate. A. H. Scott and A. T. McPherson. bibliog diags J Research Nat Bur Stand 28:279-96 Mr '42

Lime softening graphically studied. H. O. Hartung. il Water Works & Sewerage 88:539-44 D '41

Settling and thickening of aqueous suspensions. K. Kammermeyer. bibliog il Ind & Eng Chem 33:1484-91 D '41

Special slide rule for calcium carbonate equilibrium problems in corrosion control of water supplies. A. A. Hirsch. bibliog Ind & Eng Chem Anal ed 14:178-80 F 15 '42

See also
Limestone

Analysis

Continuous calcium carbonate saturation balance indicator. A. A. Hirsch. diag Ind & Eng Chem Anal ed 13:811-12 N 15 '41

CALCIUM chloride

Calcium chloride nomographs. D. S. Davis. Ind & Eng Chem 34:1393-4 N '42

Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42

Cure for damp basements. il Sheet Metal Worker 33:32 My '42

Effect of calcium chloride on strength of concrete at low temperatures. Franklin Inst J 233:76 Ja '42

Effect of calcium chloride on the strength of concrete. J. C. Yates. Roads & Bridges 80:96 Mr '42

Minnesota's ice control system. H. C. Jahnke. il Pub Works 73:23-4 Ag '42

Placing concrete in cold weather; calcium chloride protects concrete at much lower temperature than formerly thought possible. J. A. Knight. Roads & Bridges 80:43, 96, 98 O '42

Strength development of concrete affected by calcium chloride in low temperatures. Concrete 50:8 F '42

Use of calcium chloride as an admixture in concrete for high early strength and low temperature protection. Am Concrete Inst J 13:400-1 F '42

CALCIUM cholesteryl sulfate

Steryl sulfates; thermal decomposition of calcium cholesteryl sulfate. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:482-3 Mr '42

CALCIUM compounds

Effect of admixtures on portland cement. C. H. Jumper and G. Kalousek. Rock Prod 45:28-9 My '42

CALCIUM cyanamide

Crystal structure of calcium cyanamide. M. A. Bredig. Am Chem Soc J 64:1730-1 Jl '42

CALCIUM fluoride

Cuts glare; etching glass surfaces reduces reflection. il Sci Am 165:335 D '41

CALCIUM hydride

Calcium hydride; its use in the determination of water. Chem Age (Lond) 47:337 O 17 '42

CALCIUM hydroxide

Producing a superior hydrate. V. J. Azbe. diag Rock Prod 45:113-14 Ja '42

CALCIUM hypochlorite

Bleach requirement of pulp; TAPPI tentative standard T 219 m-42. Paper Tr J 115:35-6 Jl 16 '42

Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

Preparation of bleaching solutions. R. P. Whitney. Paper Tr J 113:35-6 N 20 '41

Study of pH factor in hypochlorite bleaching of wood pulp; two-stage treatment of sulphite pulp. F. Casciani and G. K. Storin. Paper Tr J 115:89-97 O 1 '42

Use of chlorites for treating raw sugars. H. S. Isbell. J Research Nat Bur Stand 27:491-7 D '41

CALCIUM in the body

Calcium in the adult diet. T. Moran and J. B. Hutchinson. bibliog Chem & Ind 61:416-17 O 10 '42

Chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C in monkeys. H. F. Fraser. bibliog Pub Health Rep 57:959-67 Je 26 '42

Mouth lesions in monkeys associated with a chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C. H. F. Fraser and N. H. Topping. Pub Health Rep 57:968-73, pl 1-3 Je 26 '42

Pathology of artificially induced scurvy in the monkey, with and without chronic calcium deficiency. T. H. Tomlinson, jr. bibliog Pub Health Rep 57:987-93, pl 1-2 Jl 3 '42

CALCIUM metaphosphate. See Calcium phosphates

CALCIUM nitrate

System $Ca(NO_3)_2$-$Sr(NO_3)_2$-H_2O at 25 and 60°. K. A. Kobe and P. B. Stewart. bibliog Am Chem Soc J 64:1301-3 Je '42

CALCIUM oxide. See Lime

CALCIUM phosphates

Activation of dicalcium phosphate for the chromatographic determination of carotene. L. A. Moore. Ind & Eng Chem Anal ed 14:707-8 S 15 '42

Calcium metaphosphate; rate of reaction of phosphorus pentoxide with rock phosphate. G. L. Frear and L. H. Hull. diags Ind & Eng Chem 33:1560-6 D '41

Calcium phosphate in the filtration of sugar liquors. A. B. Cummins. il Ind & Eng Chem 34:398-402 Ap '42

Development of processes for metaphosphate productions. R. L. Copson, G. R. Pole and W. H. Baskervill. bibliog il diag Ind & Eng Chem 34:26-32 Ja '42

CALCIUM phosphates—*Continued*

Filtration of phosphate-defecated affination sirup. H. I. Knowles. flow sheet Ind & Eng Chem 34:422-4 Ap '42

Isomorphism and allotropy in compounds of the type A_2XO_4. M. A. Bredig. bibliog J Phys Chem 46:747-64 Je '42

Recent developments in the phosphate field; coated anhydrous monocalcium phosphate. H. W. Easterwood. Ind & Eng Chem 34:15-16 Ja '42

See also

Phosphate rock

CALCIUM potassium phosphate

Isomorphism and allotropy in compounds of the type A_2XO_4. M. A. Bredig. bibliog J Phys Chem 46:747-64 Je '42

CALCIUM silicates

Binary system $CaSiO_3$—diopside and the relations between $CaSiO_3$ and akermanite. J. F. Schairer and N. L. Bowen. Am J Sci 240:725-42 O '42

Desulphurization in the open-hearth. F. W. Scott and T. L. Joseph. bibliog il Metals & Alloys 15:745-50 My '42

Effect of manganese on the desulphurizing power of calcium silicates. F. W. Scott and T. L. Joseph. bibliog Blast F & Steel Pl 30: 425-30, 532-5+ Ap-My '42

Silicates of calcium; reactions with water and relationships with portland cement. T. Thorvaldson. il Can Chem & Process Ind 26:197-9 Ap '42; Same. Chem Age (Lond) 46:293-5 Je 13 '42

System $CaSiO_3$—diopside—anorthite. E. F. Osborn. bibliog diags Am J Sci 240:751-88 N '42

See also

Wollastonite

CALCIUM sodium phosphate

Isomorphism and allotropy in compounds of the type A_2XO_4. M. A. Bredig. bibliog J Phys Chem 46:747-64 Je '42

CALCIUM stearate

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:66 S 21 '42

CALCIUM sulfate

Proposed method of test for calcium sulfate in gypsum and gypsum products by the ammonium acetate method. Am Soc T M Proc 41:293-4 '41

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42

See also

Gypsum

CALCIUM sulfide

Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

Salivation hazard lessened in quicksilver mining; spraying with lime sulphur solution. T. Soule. il Eng & Min J 143:51-3 Ap '42

Use of gypsum in the kraft process. O. Kress and W. H. Aiken. bibliog Paper Tr J 113: 41-4 N 13 '41

CALCIUM sulfite

Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42

CALCIUM tocopheryl succinate

Chemistry of vitamin E; calcium α-tocopheryl succinate. L. I. Smith, W. B. Renfrow, jr. and J. W. Opie. bibliog Am Chem Soc J 64:1084-6 My '42

CALCIUM tungstate

Fluorescence of phosphors in the rare gases. G. R. Fonda and H. Huthsteiner. bibliog Opt Soc Am J 32:156-60 Mr '42

Radiograph intensifying screens. A. L. Christenson and H. F. Kaiser. il Iron Age 149:63-4 Ap 2 '42

See also

Scheelite

CALCULATING boards

Application of a calculating board to quantitative spectro-analysis. C. King. il Opt Soc Am J 32:112-15 F '42

CALCULATING devices

Applying the mechanical integrator to orifice meter measurement. J. L. Cottrell. il Pet Eng 13:71-2, 74 Je; 51-2, 54+ Jl '42

Calculation of milling feeds and speeds; calculator devised to correlate large number of factors. il Iron Age 149:62 My 14 '42

Device for calculating milling speeds quickly and accurately. il Mach 48:172 Je '42

Horizontal-polar-pattern tracer for directional broadcast antennas. F. A. Everest and W. S. Pritchett. il diags Inst Radio Eng Proc 30:227-32 My '42

Line clearance calculator. V. W. Palen. il Elec W 118:1120 O 3 '42

Mechanical calculator for directional antenna patterns. W. G. Hutton and R. M. Pierce. il diags Inst Radio Eng Proc 30:233-7 My '42

Solving reservoir problems with circular point-by-point computer. J. M. Shepley and C. B. Walton. diags Civil Eng 12:154-5 Mr '42

CALCULATING machines

Automatic calculator; Remington Rand new model. il Business Week p69 Ap 4 '42

Calculating machines. E. W. Crew. diags Engineer 172:438-41 D 19 '41

Combined slip and positive clutch; patent assigned to Felt & Tarrant manufacturing co. for use in mechanism of calculating machines. diag Machine Design 14:210+ Ap '42

Crank-driven calculator course. R. C. Goodfellow and P. L. Agnew. 2d ed 124p pa 60c South-western pub. co. '41

Key-driven calculator course. R. C. Goodfellow and P. L. Agnew. 2d ed 163p pa 72c South-western pub. co. '42

Machine method for the extraction of cube root. O. E. Lancaster. Am Statis Assn J 37:112-15 Mr '42

Square and cube root with a calculator. T. W. Simpson. Eng N 129:81 Jl 16 '42

Square root by calculator. S. L. Goldberg. Eng N 129:41-2 Jl 2 '42

See also

Integraphs

CALCULI, Urinary

Carbonate-apatite and hydroxyl-apatite in urinary calculi. C. Frondel and E. L. Prien. Science 95:431 Ap 24 '42

CALCULUS

Analytical geometry and calculus. H. B. Phillips. 457p $5 Lew A. Cummings co, Kendall bldg, Cambridge, Mass. '42

Calculus. H. J. Ettlinger and M. B. Porter. 317p $3.25 Dryden press, 103 Park av, New York '42

Calculus. A. L. Nelson, K. W. Folley and W. M. Borgman. 356p $2.75 Heath '42

Calculus. H. B. Phillips. pt 2 457p $3 Lew A. Cummings co, Kendall sq. bldg, Cambridge, Mass. '41

Calculus. G. E. F. Sherwood and A. E. Taylor. 503p $3.75 Prentice-Hall '42

Difference calculus simplifies computation of shaft deflections. A. H. Church. Product Eng 13:13-15 Ja '42; Discussion. R. E. Bruckner. 13:169-70 Mr '42

Differential and integral calculus. H. M. Bacon. 771p $3.75 McGraw-Hill '42

Differential calculus for students of economics. J. W. Lasley, jr. and M. A. Hill, jr. 150p pa $1.68 for sale by Book exchange, Chapel Hill, N.C. '41

Heaviside's direct operational calculus. J. B. Russell. Elec Eng 61:84-8 F '42

Integration in the complex plane. K. O. Friedrichs. Elec Eng 61:139-43 Mr '42

Introduction to the operational calculus. W. J. Seeley. 167p $2 International textbook co, Scranton, Pa. '41

Laplacian transform analysis of circuits with linear lumped parameters. J. Millman. diags Elec Eng 61:197-205 Ap '42

Mathematics for technical training; calculus. P. L. Evans. 126p $1.25 Ginn '42

New calculus for the treatment of optical systems. R. C. Jones; H. Hurwitz, jr. Opt Soc Am J 31:485-503; 32:486-93 bibliog(p493) Jl '41, Ag '42

CALCULUS—*Continued*

Operational analysis of non-linear dynamical systems. L. A. Pipes. J Ap Phys 13:117-28 F '42

See also

Heaviside expansion theorem

CALCULUS of tensors

Short course in tensor analysis for electrical engineers. G. Kron. 250p $4.50 Wiley '42

CALCULUS of variations

Contributions to the calculus of variations, 1938-1941. v4 527p bibliog(p495-527) $3 Univ. of Chicago press '42

CALENDAR

Calendar reform and the National academy of sciences. W. E. Castle. Science 95:195 F 20 '42

Calendar reform and 364-day years. A. Gundersen. Science 95:325 Mr 27 '42

CALENDARS

Annual calendar review. il Ind Marketing 27:26-7+ Ja; 28-9 F '42

Checking calendar usage and computing effective cost; government postcard included in Dorr calendar when mailed, checks its reception and prepares a list for next one. A. Anable. il map Ind Marketing 27:60 N '42

Connecticut Mutual 1943 calendar to feature American artists again. il East Underw 43:4 Jl 31 '42

Currier & Ives prints feature Travelers calendar for 1942. East Underw 42:3+ N 28 '41

Swift premium offer features wartime household guide. Ptr Ink 201:57 N 6 '42

CALENDERS

Reducing weight of calender rolls. diags Pulp & Pa of Can (Convention no) 43:116-17 [F] '42

Supercalender rolls; their conditioning and maintenance. W. R. Stapley. il Paper Ind 23:789-90+ N '41

CALGARY power company

First mortgage 5s, 1960 and 1964. Comm & Fin Chr 156:971 S 17 '42

CALGON. See Sodium hexametaphosphate

CALICO printing

Resists under printed azoic colors. Textile Col 64:449-50 S '42

CALIFORNIA

Fourth air force in California. J. E. Fickel. il Aero Digest 40:78+ Ja '42

Nondepositional physiographic environments off the California coast. F. P. Shepard. bibliog Geol Soc Bul 52:1869-86, pl 1-2 D '41

See also

Airplane industry and trade—California
Architecture, Domestic—California
Gas, Natural—California
Geology—California
Gold mines and mining—California
Iron works—California
Labor and laboring classes—California
Labor supply—California
Mercury mines and mining—California
Petroleum industry and trade—California

Antiquities

Exceptional burial in California. P. C. Orr. Science 94:539-40 D 5 '41

Economic conditions

Planning for postwar reconstruction in southern California. G. G. Lentz, ed. Ann Am Acad 222:133-88 Jl '42

Industries and resources

Prospects for new industries in southern California. V. O. Watts. Ann Am Acad 222:173-8 Jl '42

Politics and government

California state government. D. Anderson. 350p $2.90 Stanford univ. press '42

CALIFORNIA Oregon power company

Plan approved by SEC; company to be recapitalized. Comm & Fin Chr 156:600 Ag 17 '42

CALIPERS

Caliper facilitates inspection of high-pressure tubes. il Oil & Gas J 40:59 N 13 '41

CALKING

Pure-gum calking compound used in verminproofing ships. Marine Eng 47:95 F '42

CALLAWAY mills

Callaway research department. P. N. Collier and B. R. Clanton. il Textile World 91:60-1 D '41

CALORIMETERS and calorimetry

Apparatus for measuring thermal conductivity of refractories. C. L. Norton, jr. bibliog il diags Am Cer Soc J 25:451-9 N 1 '42

Calorimetric investigations of organic reactions; the heats of ionization of *dl*-alanine at 25°. J. M. Sturtevant. bibliog Am Chem Soc J 64:762-8 Ap '42

Energy of immersion of crystalline powders in water and organic liquids. G. E. Boyd and W. D. Harkins. bibliog diags Am Chem Soc J 64:1190-4 My '42

Heat capacity of organic vapors; a comparison of flow calorimeters. J. B. Montgomery and T. De Vries. diags Am Chem Soc J 64:2372-5 O '42

Heating-value determination with calorimeter. G. M. Stearns. Oil & Gas J 41:217-18 S 24 '42

Low temperature adiabatic calorimeter; the calibration of the platinum resistance thermometers. D. M. Yost and others. diags Am Chem Soc J 63:3488-92 D '41

Modified calorimeter for high temperatures; the heat content of silica, wollastonite and thorium dioxide above 25°. J. C. Southard. bibliog diag Am Chem Soc J 63:3142-6 N '41

Rapid and accurate measurement of refrigerating capacity with secondary-refrigerant calorimeter and direct-reading Btu meter. H. F. Lathrop. il Gen Elec R 45:403-6 Jl '42

Servicing recording calorimeter used to determine heating value of gas. R. O. Cox. Pet Eng 13:69-70, 72 S '42

Specific heat of thermal insulating materials. G. B. Wilkes and C. O. Wood. il diags Heating-Piping 14:370-4 Je '42

Temperature correction methods in calorimetry. R. S. Jessup. J Ap Phys 13:128-37 F '42

See also

Specific heat

Standards

Heat of combustion of benzoic acid, with special reference to the standardization of bomb calorimeters. R. S. Jessup. bibliog J Research Nat Bur Stand 29:247-70 O '42

CAMERA lucida

Drawing lamp for camera lucida. E. V. Seeler, jr. diags Science 96:94 Jl 24 '42

CAMERA tripods

Tripod for heavy cameras. H. C. Schneider. il diags Am Phot 36:36-7 Ag '42

CAMERAS

Characteristics of wide-angle airplane-camera lenses. F. E. Washer. diags J Research Nat Bur Stand 29:233-46 S '42

Enemy aircraft photographic equipment. F. Postlethwaite. il diag Engineering 153:441-3 Je 5 '42

Iris shutter analysis. T. B. Hayes. bibliog diags Am Phot 36:34-7 N '42

Macro camera for laboratory and clinical photography. L. B. Brown. il diags Am Phot 36:34-5 Ag '42

Method of testing focal plane shutters. A. K. Aster. il Photo Tech 3:51-2 D '41

Simple mirror focusing device. A. V. Probst. il diags Photo Tech 3:49-50 N '41

Testing shutter speeds and flash synchronization. J. A. Bledsoe. il diags Am Phot 36:36-8 Ja '42

See also

Lenses, Photographic
Moving picture cameras

CAMERAS—*Continued*

Repair

Wartime repair program; Eastman kodak company. il Ptr Ink 198:49 Ja 30 '42

Small size

35mm view camera for color work. L. Crolius. il Photo Tech 3:45 N '41

CAMERAS, Electron diffraction

Electron microscope used as a diffraction camera; abstract. J. Hillier, R. F. Baker and V. K. Zworykin. Science 96:sup12 Jl 3 '42

Electronic camera has X-ray eye. S. R. Winters. il diags Radio N 28:16-17+ S '42

CAMERAS, Moving picture. See Moving picture cameras

CAMERAS, Used

Secondhand camera markets. Consumers' Research Bul 9:15-17 Ja '42

CAMOUFLAGE

Art of camouflage. C. H. R. Chesney. 252p $2.75 Ryerson press '41

Blackout and camouflage paints formulated by the industry. Oil Paint & Drug Rep 140:7+ D 22 '41

Blackout paints, concealment paints. H. A. Gardner. Paint Oil & Chem R 104:5-6 Ja 1 '42

Camouflage art competes with photography's revealing eye. Sci Am 167:127 S '42

Camouflage coatings. Oil Paint & Drug Rep 142:91 N 2 '42

Camouflage has come a long way since the dazzle paint of World war I. il Fortune 25:78-83 Mr '42

Camouflage on the oil front. M. L. Gendel. il Oil & Gas J 41:39, 41 Ag 13 '42

Camouflage with plating. R. R. Root. 79p bibliog(p77) pa $1.50 R. F. Seymour, Chicago '42

Civilian defence; camouflage, protective concealment. il diags plans Arch Forum 76: 14-25 Ja '42

Civilian defense, protective concealment. 68p U.S. Office of civilian defense, Washington '42

Color and camouflage. G. W. Kadel. il Paint Oil & Chem R 104:13-14+ Mr 12 '42

Construction techniques changed by camouflage requirements. il Eng N 128:989 Je 18 '42

Decoy blackouts; dummy airfields, deserted roads, and empty areas; abstract. S. G. Hibben. Sci Am 166:8 Ja '42

Developments in industrial camouflage. D. P. Barnes. il Civil Eng 12:453-6 Ag '42

Effective camouflage as means of protecting oil property. K. J. Keating. il Oil & Gas J 40:225-6 Mr 26 '42

Fooling the aerial observer. J. W. Kosting. il Nat Safety N 46:24+ Ag '42

Home guard manual of camouflage. R. Penrose. 102p 2s 6d Routledge '41

How and why of camouflage. H. Goff. il Aviation 41:104-5+ O '42; Same. Pet Eng 13:98, 100+ S; 14:33-4 O '42; Same. Steel 111:72-3+ N 2 '42

Industrial camouflage manual. K. F. Wittmann. 128 numb l. $4 Reinhold pub. corp. '42

Industrial plant protection. il diags Arch Forum 77:49-59 Ag '42

Infrared coatings to be restricted to military. Paint Oil & Chem R 104:25 Je 4 '42

Infrared reflectance of camouflage enamels. Oil Paint & Drug Rep 142:47A-47B O 26 '42

Modern camouflage. O. S. Larabee. Paint Oil & Chem R 104:16+ Ja 15 '42

Modern camouflage; the new science of protective concealment. R. P. Breckenridge. 280p bibliog(p277-8) $3.50 Farrar '42

Protection of plants by camouflage. il diags map Power Pl Eng 46:65-8 N '42

Protective concealment for industry. V. T. Boughton. il diags Eng N 129:156-65 Jl 30 '42

Protective concealment of utility properties. K. Martin. il Elec W 118:756-8 S 5 '42

Scientific camouflage. J. Grieve. Can Chem & Process Ind 26:146 Mr '42

Use of dummies in the camouflage of operational aerodromes. E. Z. Yassin. il Roy Aeronautical Soc J 45:370-7 D '41

What camouflage can do. H. Goff. il Factory Management 100:94-5+ S '42

Bibliography

List of references on camouflage. G. H. Fuller, comp. 16p U.S. Lib. of Congress, Division of bibliography, Washington '42

CAMP, Thomas Ringgold, 1895-

Sketch. por(p50) Civil Eng 12:52 Ja '42

CAMP sanitation

Sewage disposal plant for small camps. J. Feld. diags Eng N 129:184 Jl 30 '42

CAMPBELL, Levin H. jr. 1886-

Major General Campbell made Ordnance chief. por Am Mach 86:532e My 28 '42

Sketch. por Steel 111:160 O 5 '42

CAMPHENE

Inactivation in the camphene series. J. J. Ritter and G. Vlases, jr. bibliog Am Chem Soc J 64:583-5 Mr '42

CAMPHOR

Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34:1028-34 S '42

Investigation of ocimum oil and camphor basil as sources of camphor. For Comm W 6:18 Ja 10 '42

News by commodities; imports and uses of camphor. For Comm W 5:16 D 27 '41

See also

Hydroxycamphor

CAMPS

Recreation camps, New York and Pennsylvania; views, plans, and construction outlines. Arch Forum 76:69-78 F '42

See also

Concentration camps

Evacuation centers

Military training camps

CAMPS, Military

Building army camps. il Engineer 174:318-19 O 16 '42

West coast cantonment. C. T. Leeds. il Civil Eng 12:541-4, 611-12 O-N '42

See also

Military posts

Military training camps

CAMS

Cam drive with variable-stroke mechanism. P. Grodzinski. diag Mach 48:144 D '41

Controls cam mechanism clearance; patent assigned to Thompson products inc. diag Machine Design 14:126+ Jl '42

Designing accelerated-motion cylindrical cams. N. K. Bennett. diags Machine Design 14:87-8 Je; 85-6 Jl '42

Hard-facing cams. il Iron Age 149:35 Ap 23 '42

Manufacture

Methods of cam milling. H. A. Frommelt. il diags Am Mach 86:321-3, 386-8, 440-2, 502-4, 652-4, 709-11 Ap 16-My 28, Je 25-Jl 9 '42

Shaper fixture for machining special cams. L. Kasper. diags Mach 48:153-4 Mr '42

CAMSHAFTS

Manufacture

Alloy cast-irons; Midland motor cylinder co., ltd. il diag Automobile Eng Extra no 31: 383-4 N 6 '41

Flame hardening with city gas; full-automatic set-ups. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:1088-9 O 1 '42

CAN. See Cans; Milk cans; Oil cans; Tin cans

CANADA

Canada. Lady Tweedsmuir. 48p Britain in pictures, London

Canada, today and tomorrow. W. H. Chamberlin. 338p $3 Little '42

Canada's travel problem. S. A. Shepherd. Bankers M 143:380-4+ N '41

Unknown country; Canada and her people. B. Hutchison. 386p $3.50 Coward-McCann, New York '42

CANADA—*Continued*

We discuss Canada; study outlines on Canadian problems. 69p pa 75c Ryerson press '42

See also

Banks and banking—Canada
Chemical industries—Canada
Gold miners—Ontario
Gold mines and mining—Canada
Hosiery trade—Canada
Hydroelectric plants—Canada
Insurance—Canada
Insurance, Unemployment—Canada
Labor laws and legislation—Canada
Labor supply—Canada
Lumber trade—Canada
Manufactures—Canada
Mines and mineral resources—Canada
Mining industry and finance—Canada
Paper industry and trade—Canada
Petroleum industry and trade—Canada
Railroads—Canada
Retail trade—Canada
Roads—Canada
Shoe industry and trade—Canada
Taxation—Canada
Textile industry—Canada
Wages—Canada
Wheat—Canada
World war, 1939-—Canada

Air force

How a great air army was built; in two years Canada has become the prime source of Empire pilots. il Fortune 25:83-7+ Ap '42

Salvaging aircrew trainees; Composite training school, Canadian royal air force. J. Montagnes. il Aviation 41:136-7+ Mr '42

Army

Education

Nonservice education for the Canadian armed forces. A. Moore. Ann Am Acad 220:67-80 Mr '42

Pay, allowances, etc.

Allowances for dependents in Canadian military forces. Monthly Labor R 53:1156-8 N '41

Boundaries

Northwest water boundary; report of the experts summoned by the German emperor as arbitrator under articles 34-42 of the Treaty of Washington of May 8, 1871, preliminary to his award dated Oct. 21, 1872. H. Miller, ed. (Pub. in the social sciences, v. 13, no. 1) 75p pa 50c Univ. of Washington, Seattle '42

Commerce

Dollar dilemma; Canada faces problem of how to recapture profits on exchange if plan to equalize two currencies is dropped. Business Week p48-9 Mr 7 '42

Foreign trade in 1941 the highest in history. For Comm W 6:13 F 28 '42

New high records of production for Canadian industry. J. A. MacKinnon. Roads & Bridges 80:60, 62, 64 F '42

See also

Shipping—Great Lakes

Commercial policy

Export controls; revised list of materials requiring export permits. Can Chem & Process Ind 25:589-90+ N '41

Review of Canadian wartime trade control measures. M. H. Fricker. For Comm W 7: 6-7+ Ap 18; 7-9 Ap 25 '42

Some details of Canadian price control policy, with special reference to imports. For Comm W 5:8-9+ D 13 '41

Tariffs and trade controls. Published in Foreign commerce weekly

Economic conditions

Canada in 1941. Economist 142:sup8 Mr 14 '42

Canada's industrial growth in '41 above any earlier 10-year period. Steel 110:429 Ja 5 '42

Canadian business since the outbreak of war. S. H. Logan. Comm & Fin Chr 155:462-3 Ja 29 '42

Canadian failures by provinces, monthly; and quarterly record by province, city, and division of industry. Published in Dun's statistical review; summary in Dun's review

Canadian national income in 1941 largest in history. J. A. McLeod. Comm & Fin Chr 155:678 F 12 '42

Current conditions in Canada. Published in monthly numbers of Bankers magazine

News by countries. Published in Foreign commerce weekly

We discuss Canada, study outlines on Canadian problems. 69p pa 75c Ryerson press '42

What the war has done to Canadian business; graphs. Business Week p54 Ag 8 '42

See also

Cost of living—Canada

Economic policy

Canada pioneers in price control. H. S. Moffatt. Barron's 22:43-4 Ja 12 '42

Canada under the lid; price ceiling successfully erected over the Dominion's economy. B. Hutchison. Fortune 26:62-3+ Jl '42

Canada's economic policy in war. G. F. Towers. Bankers M 145:211-16 S '42

Canada's economic war policy. B. S. Kierstead. 31p Nelson (Toronto) '41

Canadian war controls. C. H. Lander. Oil Paint & Drug Rep 142:57-60 O 5 '42

Canadian wartime economic control measures. (Bul. 118) 24p Inst. of international finance, New York '42

Canadian wartime price control. J. Backman. Dun's R 49:11-19+ D '41

Ceiling's the limit. S. Leacock. Banking 34: 19-22 D '41

Control of wages and prices in Canada. Monthly Labor R 53:1392-6 D '41

News by countries. For Comm W 6:9-11 Ja 17 '42

Outline of Canadian price and wage controls. For Comm W 5:12-14 N 15 '41

Real price control; Canada swings its drastic program into action. Business Week p62, 64+ D 6 '41

Regulatory legislation in Canada incident to war time basis. J. T. Madden. Comm & Fin Chr 155:110 Ja 8 '42

Shadow of coming events; Canada shows the way in transition to full war production and controls. V. L. Horoth. il Mag of Wall St 69:134-6+ N 15 '41

Foreign relations

Canada in world affairs; the pre-war years. F. H. Soward and others. 343p $3.25 Oxford '41

In the public mind; we compare notes with Canada and check the results against the opinions of America's business and intellectual leaders. Fortune 25:8-10+ Je '42

Wartime machinery of Canadian external relations. G. Carter. 31p Canadian inst. of international affairs, 3 Willcocks st, Toronto '41

United States

British Columbia and the United States; the North Pacific slope from fur trade to aviation. F. W. Howay, W. N. Sage and H. F. Angus. 408p $3.50 Ryerson press '42

Canadian-United States wartime co-operation to have lasting consequences. Bankers M 144:535-6 Je '42

Close relation of U.S. Canada seen permanent. Comm & Fin Chr 155:2129 Je 4 '42

Unguarded frontier; a history of American-Canadian relations. E. W. McInnis. 384p bibliog(p371-7) $3 Doubleday '42

United States-Canadian cooperation. Bankers M 145:59-60 Jl '42

History

Canada and her story. M. G. Bonner. 180p $2 Knopf '42

Industries and resources

Canada fights. C. M. Short. Banking 34:30-1 Ap '42

CANADA—Industries and resources—*Continued*
Canada has spent five billions on war production. Steel 111:111-12 Jl 20 '42
Canadian optical instrument industry. W. E. Phillips. Engineering 153:424-5, 465 My 29, Je 12 '42
Industrial capacity doubled. Steel 111:58 S 21 '42
Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:77-9 Ja 25 '42
New high records of production for Canadian industry. J. A. MacKinnon. Roads & Bridges 80:60, 62, 64 F '42
Wartime national efficiency. G. A. Gaherty. Elec Eng 61:547-50 N '42

Politics and government

Copy for Canada. il Business Week p46+ N 29 '41

Social conditions

Social development of Canada; an introductory study with select documents. S. D. Clark. 484p $4 Univ. of Toronto press, Toronto '42

Statistics

Canada, 1942; the official handbook of present conditions and recent progress. 168p Canada. Dominion bur. of statistics, Ottawa '42

Wartime bureau of technical personnel

Essential work regulations for scientific and technical personnel. Can Chem & Process Ind 26:203+ Ap '42
Mobilizing Canada's technical manpower. R. F. Legget. Eng N 129:489-90 O 8 '42
National service; a challenge to the engineer. E. M. Little. Pulp & Pa of Can 43:241-4 F '42; Same cond. Can Chem & Process Ind 26:77-8+ F '42
Organization of technical manpower. E. M. Little. Can Chem & Process Ind 25:616+ N '41
Technical personnel and National selective service; abstract. L. E. Westman. Can Chem & Process Ind 26:330-1 Je '42

Wartime prices and trade board

Expanded powers of Canadian Wartime prices and trade board. Monthly Labor R 53:1154-5 N '41
Machinery of Canadian price control. A. F. Peterson. For Comm W 6:4-5+ Mr 7 '42

CANADA dry ginger ale, inc.
Creation of new preferred stock approved. Comm & Fin Chr 155:258 Ja 17 '42

CANADIAN chemical convention
Annual meeting, 25th, Hamilton. Can Chem & Process Ind 26:329-38 Je '42

CANADIAN congress of labor
Proceedings, second annual convention, Hamilton, Ontario, Sept. 8-12, 1941. 117p The congress, 230 Laurier av. W, Ottawa '41

CANADIAN electrical association
Annual meeting, 52d, Quebec, June 11-12. Elec W News ed 117:2155 Je 20 '42; Edison Elec Inst Bul 10:282+ Jl '42

CANADIAN institute of mining and metallurgy
Annual general meeting, 46th, Toronto, March 9-11. Can Chem & Process Ind 26: 143-4 Mr '42; Eng & Min J 143:79-80 Ap '42

CANADIAN legion educational services
Nonservice education for the Canadian armed forces. A. Moore. Ann Am Acad 220:67-80 Mr '42

CANADIAN life insurance officers association
Convention, 49th, Quebec. East Underw 43: 1+ My 29 '42

CANADIAN national railways
Canadian national railway, 1923-1941. 13p pa 20c Canada. Dominion bur. of statistics, Ottawa '42
How co-op plan works on C.N.R. Ry Age 112:957-8 My 16 '42

CANADIAN Pacific railway
All out from the neck up; converting railroad shops to war production. il Fortune 26:80-2+ Jl '42
Annual report, 61st, year ended Dec. 31. Comm & Fin Chr 155:1302-4, 1306 Mr 30 '42; Same abr. Ry Age 112:729-34 Ap 4 '42
Buys air lines completing trans-Dominion service. Comm & Fin Chr 154:1727 D 30 '41
Canadian Pacific railway, 1923-1941. 11p pa 25c Canada. Dominion bur. of statistics, Ottawa '42
New top-of-the-world air routes. D. L. Moody. map Barron's 22:18 O 19 '42
Sir Edward Beatty resigns C.P.R. presidency. Ry Age 112:901-2 My 9 '42

CANADIAN pulp and paper association
Annual meeting, 29th, Montreal, Jan. 28-30. Paper Tr J 114:7, 14, 16-18+ F 5 '42; Paper Ind 23:1104+ F '42; Pulp & Pa of Can (Convention no) 43:63-74 [F] '42
Industry extends scope of organization; western branch established. Pulp & Pa of Can 43:569+ Jl '42
Reports of branches and committees. Pulp & Pa of Can (Convention no) 43:157-74 [F] '42

Technical section

Annual meeting plans of Technical section. Pulp & Pa of Can 42:771-3 D '41
Plans for 1942. E. D. Hyndman. Pulp & Pa of Can (Convention no) 43:79-80+ [F] '42
Summer meeting. Pulp & Pa of Can 43:570-3 Jl '42
Technical section activities in 1941. W. B. Scott. Pulp & Pa of Can (Convention no) 43:75-8 [F] '42
What the Technical section is and does. il Pulp & Pa of Can 43:821-7 O '42

Wartime machine shop board

Wartime machine shop board. Pulp & Pa of Can (Convention no) 43:224+ [F] '42

Woodlands section

Activities in 1942. Pulp & Pa of Can (Convention no) 43:185-6 [F] '42

CANADIAN trades and labor congress. See Trades and labor congress of Canada

CANADIAN transit association
Annual meeting, 38th, Toronto, June 15-16. Bus Transportation 21:313-15 Jl '42

CANADIAN water works equipment association
Annual meeting, Niagara Falls, Ont, April 17. Water & Sewage 80:60+ Ap '42

CANAL lining
Canal lining cured by sprayed coats of white-pigmented compound. O. G. Boden. il Am Concrete Inst J 13:449-51 Ap '42
How to line canals with brick; southern Texas irrigation canals. W. I. Gilson. il Eng N 128:350-2 F 26 '42
Machine methods for trimming subgrade and placing concrete canal lining. O. G. Boden. il Am Concrete Inst J 13:177-80 N '41
Transit mixers used effectively on the Contra Costa canal. O. G. Boden. il Am Concrete Inst J 13:269-72 Ja '42

CANAL traffic
Inland navigation and canals. J. M. Lacey. diags Engineering 153:403-4 My 22 '42

CANALS
Effects of channel shape on losses in a canal bend. C. H. Yen and J. W. Howe. il Civil Eng 12:28-9 Ja '42
Inland navigation and canals. J. M. Lacey. diags Engineering 153:403-4 My 22 '42
Speeds ore shipments by opening up new waterway; new ship canal, Keeweenaw waterway. R. B. Williams. il map Steel 111: 96; 98 Ag 3 '42

See also
Chicago drainage canal
Dredges
Erie canal
Irrigation canals
Panama canal
Waterways

Lighting

Canal lighting; sodium vapor units for Cape Cod waterway. il Sci Am 166:78 F '42

CANALS—*Continued*

Florida

Pipeline, barge canal approved for Florida. Comm & Fin Chr 156:274 Jl 23 '42

CANALS, Drainage. See Drainage

CANALS, Irrigation. See Irrigation canals

CANCER

Carcinogenic effect of methylcholanthrene and of tar on rabbit papillomas due to a virus. P. Rous and W. F. Friedewald. bibliog Science 94:495-6 N 21 '41

Cause and cure of cancer; abstract. C. P. Rhoads. Science 96:sup10 Jl 24 '42

Cyclotron treatment of cancer; abstract. J. C. Larkin and R. S. Stone. Science 94:sup 12 D 12 '41

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1235-75 Ag 21 '42

Double check on insecticide reveals unwanted features; 2-acetamidofluorene as cancer cause. Sci Am 166:246 My '42

Effect of orchidectomy on skeletal metastases from cancer of the male breast. J. H. Farrow and F. E. Adair. Science 95:654 Je 26 '42

Effect of tumor implantation on the estrous cycle of rats. J. O. Ely and R. L. Phillips. Franklin Inst J 233:88-90 Ja '42

Factor in domestic rabbit papilloma tissue hydrolyzing the papilloma virus protein. F. Bernheim and others. bibliog Science 95:230-1 F 27 '42

Finney-Howell research foundation; eight fellowships awarded. Science 95:320 Mr 27 '42

Growth of cancer tissue in the yolk sac of the chick embryo. A. Taylor, J. Thacker and D. Pennington. Science 96:342-3 O 9 '42

Investigations on the possible carcinogenic effect of anthracene and chrysene and some of their compounds; the effect of subcutaneous injection in rats. J. A. Pollia. J Ind Hygiene 23:449-51 N '41

Key to new knowledge on animal reproduction and on cancer; abstract. E. Allen. Science 96:sup12 S 4 '42

Mataro Nagayo, president of the Japanese foundation for cancer research. W. Nakahara. Science 94:479-80 N 21 '41

Mechanism of species adaptation to carcinogens. R. R. Spencer and M. B. Melroy. Science 95:592-5 Je 12 '42

Milk-influence of breast tumors in mice. J. J. Bittner. Science 95:462-3 My 1 '42

New method of treating cancer of the mouth, pharynx and larynx. Science 94:sup13 N 14 '41

New procedure for staining vaginal smears; diagnosing malignant tumors and other pathological conditions. G. N. Papanicolaou. Science 95:438-9 Ap 24 '42

Occupational tumors and allied diseases. W. C. Hueper. 896p $8 C. C. Thomas, Springfield, Ill. '42

Polarographic curve of serum from rats fed p-dimethylaminoazobenzene. H. P. Rusch and D. L. Miner. bibliog Science 94:468 N 14 '41

Polycyclic aromatic hydrocarbons: dibenzfluorenes. R. H. Martin. Chem Soc J p679-85 O '41

Present status of state cancer control programs. L. A. Scheele. Pub Health Rep 57:1613-20 O 23 '42

Procarcinogenic effect of biotin in butter yellow tumor formation. V. du Vigneaud and others. bibliog Science 95:174-6 F 13 '42

Pro-oxidant properties of some carcinogenic hydrocarbons. E. B. Lisle. Soc Chem Ind J 61:148 S '42

Relation between nucleic acid and growth. A. M. Brues, M. M. Tracy and W. E. Cohn. bibliog Science 95:558-60 My 29 '42

Solubility of carcinogenic and related hydrocarbons in water. W. W. Davis, M. E. Krahl and G. H. A. Clowes. bibliog Am Chem Soc J 64:108-10 Ja '42

Storage of radioactive iodine in a metastasis from thyroid carcinoma. A. S. Keston and others. Science 95:362-3 Ap 3 '42

Synthesis of 4,10-ace-1,2-benzanthracene utilizing Δ^4-tetrahydrophthalic anhydride. L. F. Fieser and F. C. Novello. bibliog Am Chem Soc J 64:802-9 Ap '42

Trauma and cutaneous cancer. O. L. Levin and H. T. Behrman. bibliog Ind Med 10:519-25 D '41

Treatment of cancer with X-rays; abstract. R. Dresser. Science 96:sup8 S 25 '42

Ultraviolet spectrographic examination of the fat fraction of mouse milk and mammary glands. K. B. DeOme, L. A. Strait and E. L. McCawley. bibliog Science 96:301-2 S 25 '42

Uniformities in the content of B vitamins in malignant neoplasms. A. Taylor, M. A. Pollack and R. J. Williams. Science 96:322-3 O 2 '42

What is being done about cancer? il Sci Am 167:199-201 N '42

——— Statistics

Analysis of human tumors diagnosed at the National institute of health, 1920-39. R. D. Lillie. bibliog Pub Health Rep 56:2284-307 N 28 '41

Cancer mortality in the United States; age variation in mortality from cancer of specific sites, 1930-32. M. Gover. (Pub. health bul. 275) 57p U.S. Public health service, Washington; pa 10c Supt. of doc. '41

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

Incidence of cancer in Birmingham and Jefferson county, Alabama, 1938. H. J. Sommers. Pub Health Rep 57:377-97 Mr 13 '42

Incidence of cancer in Dallas and Fort Worth, Texas, and surrounding counties, 1938. A. J. McDowell. Pub Health Rep 57:125-39 Ja 23 '42

Incidence of cancer in San Francisco and Alameda counties, California, 1938. H. J. Sommers. Pub Health Rep 57:1566-86 O 16 '42

Scourge of cancer; need for more research indicated. G. Hirschfeld. maps Spectator (Life ed) 149:40-50 Jl '42

CANDELILLA wax

Exportation of candelilla wax from Mexico. For Comm W 6:25 F 7 '42

Industrial uses of chemicals. Oil Paint & Drug Rep 141:59 Mr 16 '42

CANDIED fruit

Enzyme-converted corn sirup produces better glacé fruit. D. K. Tressler. il Food Ind 14:60-2 Je '42

CANDLESTICKS

Plastics competition award to Bloomingdale bros.; candlestick of Plexiglas and Lucite. il Mod Plastics 19:126-7 N '41

CANDY

Rationing

Sweets for all. Economist 143:104 Jl 25 '42

Testing

Flow manostat for various purposes, including the candy test. M. J. Proffitt. pl diags J Research Nat Bur Stand 29:143-55 Ag '42

CANDY boxes

All-America package competition; award to Huyler's, inc.; candy store in Hempstead, L.I. il Mod Packaging 15:138-9+ Ap '42

Show boxes give new life to candy sales. il Mod Packaging 15:64 D '41

CANDY factories

Equipment

Automatic lubrication saves labor and cost, makes machines last. F. M. Hewitt and M. N. Ripley. il diag Food Ind 14:43-4 S '42

CANDY stores

All-America package competition; award to Huyler's, inc.; candy store in Hempstead, L.I. il Mod Packaging 15:138-9+ Ap '42

CANDY stores—*Continued*

Huyler expands with an eye to war economy. il Mod Packaging 15:54, 56 F '42

CANDY trade

Candy a casualty; cut in volume seems inevitable. Business Week p37-8+ Je 20 '42

Candy stressed as food. Comm & Fin Chr 156:24 Jl 2 '42

Necco bonus provides incentive, wins push for long-profit items; New England confectionary co. H. R. Chapman. Sales Management 50:26+ F 15 '42

Package problems, sugar shortage are candy industry headaches. Sales Management 50:48, 50 Mr 1 '42

Shortages hit candy industry. Food Ind 14:78-9 Jl '42

Advertising

It pays to advertise to your own employees; Loft candy. G. Frederick. il Mod Packaging 15:52-4+ Ag '42

CANNABIDIOL

Analytical classes of cannabinol compounds in marihuana resin. C. C. Fulton. bibliog Ind & Eng Chem Anal ed 14:407-12 My 15 '42

CANNABINOL

Analytical classes of cannabinol compounds in marihuana resin. C. C. Fulton. bibliog Ind & Eng Chem Anal ed 14:407-12 My 15 '42

Cannabis indica; further analogues of tetrahydrocannabinol. P. B. Russell and others. Chem Soc J p826-9 D '41

Cannabis indica; the essential oil from Egyptian hashish. J. L. Simonsen and A. R. Todd. Chem Soc J p188-91 Mr '42

Cannabis indica; the isolation of 3' : 4' : 5': 6'-tetrahydrodibenzopyran derivatives from pulegone-orcinol and pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

Isolation of a physiologically active tetrahydrocannabinol from cannabis sativa resin. H. J. Wollner and others. bibliog Am Chem Soc J 64:26-9 Ja '42

Some analogs of synthetic tetrahydrocannabinol. G. A. Alles, R. N. Icke and G. A. Feigen. bibliog Am Chem Soc J 64:2031-5 S '42

Tetrahydrocannabinol homologs and analogs with marihuana activity. R. Adams and others. Am Chem Soc J 64:694-7 Mr '42

CANNABIS sativa. See Hemp

CANNED fish

Bad salmon year. Business Week p62+ My 9 '42

Earnings and hours in Pacific Coast fish canneries. A. T. Sutherland. U S Women's Bur Bul 186:1-30; pa 10c Supt. of doc. '41

See also
Sardines

CANNED food

All-America package competition; award to the Loudon packing co.; V-8 vegetable juice. il Mod Packaging 15:132-3+ Ap '42

American canned foods make hit in England. E. Hardy. il Food Ind 14:39+ Je '42

Business situation; canning industry. Survey of Cur Business 22:5-6 Mr '42

Canned food storage; with table giving length of life of various foods in cans. Economist 142:84 Ja 17 '42

Canners' omens; profound changes may be on horizon for fruit and vegetable packers. Business Week p50 Ja 17 '42

Canners' quotas. Business Week p50-2 Ja 31 '42

Canners told to reserve part of their '42 packs for government. Food Ind 14:70 Ap '42

Cooperative canning of fruits and vegetables. N. Fogelberg and W. G. Leith. 78p bibliog(p78) U.S. Farm credit administration, Washington; pa 15c Supt. of doc. '41

Corrosion in cans; abstract. Mrs S. M. L. Tritton. Chem & Ind 61:162 Ap 4 '42

Effect of canning on food value; abstract. W. B. Adam. Food Ind 14:101 My '42

Expanded scope of U.S. army buying. For Comm W 7:27-8 My 23 '42

Filling up the cans; SMA aiding processors. Business Week p53-4 Ja 10 '42

Glass troubles. Business Week p56 Mr 7 '42

Glass vs. tin cans. Business Week p46 Ja 24 '42

Heating curves; theory and practical application. F. C. W. Olson and J. M. Jackson. bibliog Ind & Eng Chem 34:337-41 Mr '42

History of canning; abstract. W. F. Baylay. Can Chem & Process Ind 25:694 D '41

Influence of the steel-base composition on the rate of formation of hydrogen-swells in canned-fruit tinplate containers. T. P. Hoar, T. N. Morris and W. B. Adam. bibliog diags Iron & Steel Inst J 140:55-92, pl 9 no 2 '39; 144:133-55 no 2 '41; Discussion. 140:93-4 no 2 '39

Inside story on the outside; Tom Boy stores labeling canned fruits and vegetables. R. A. Latimer. il Mod Packaging 15:40-2+ D '41

John Bull eats American; dehydrated eggs, milk, vegetables, and meats. il Business Week p35-6+ Je 13 '42

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:1-34; pa 10c Supt. of doc. '41

National canners association convention, Chicago. Mod Packaging 15:60, 62+ Mr '42

Problems of British Columbia canners. Can Chem & Process Ind 26:278 My '42

Soup simmers; ready-to-serve canning liquidated by tin restriction; WPB's nutritive standards. Business Week p60+ My 9 '42

Tin conservation order hits long list of foods. il Food Ind 14:65-8 Mr '42

Tinplate and the food supply. E. G. Jones. Chem & Ind 60:855-8 D 6 '41

See also
Canned fish
Canned meat
Canneries
Canning and preserving
Fruit juices
Tin cans

Advertising

Transitional period copy theme is supplied by tin shortage; Gorton-Pew fisheries. il Ptr Ink 198:44+ Mr 27 '42

Prices

Ceiling on canned foods. Comm & Fin Chr 155:965 Mr 5 '42

Standards

Brief summaries of AMS standards; canned fruits for salad. Food Ind 14:68 Jl '42

Canned foods order amended by WPB. Food Ind 14:78 Jl '42

Canned pears; brief summaries of AMS standards. Food Ind 14:109-10 S '42

Canned yellow clingstone peaches; canned freestone peaches; brief summaries of grade standards. Food Ind 14:60, 106-9 O '42

Dextrose victory; tentative amendments to FDA's canned-fruit standards would allow use of corn sugar and syrup without labeling. Business Week p51-2 Ja 17 '42

Do educators favor grade labeling? G. B. Hotchkiss. il Mod Packaging 15:49-50 F '42

Where grade labeling stands today. E. P. O'Donnell. il Adv & Sell 34:35, 58, 60 D '41

Statistics

Canadian expansion in the commercial production of vegetables. For Comm W 7:21-2 My 2 '42

Quantities of vegetables canned, 1936-1940 in Cuba. For Comm W 7:22 My 2 '42

Transportation

Canners use rails. Business Week p51-2 F 28 '42

CANNED goods

All-America package competition; award to Shell oil co. il Mod Packaging 15:178-9 Ap '42

See also
Canned food

CANNED meat

Army needs 13 new foods. J. H. White. il Food Ind 14:38-9 Mr '42; Same. Mod Packaging 15:48-9 Mr '42

Household hints; recipes on how to use American canned pork. Business Week p40 Jl 11 '42

Tests reveal faulty retorting practices; pork luncheon meat. O. F. Ecklund, H. L. Roberts and H. A. Benjamin. il Food Ind 14:62-4 Ap '42

WPB order affects imported canned beef. For Comm W 8:27-8 Jl 11 '42

CANNERIES

Canners fret; shortage of tins, closures, labor, and sugar. Business Week p60-1+ My 16 '42

See also

Tin cans

Employees

Canneries' woes; lack of experienced labor. Business Week p28-30 O 3 '42

Earnings and hours in Pacific Coast fish canneries. A. T. Sutherland. U S Women's Bur Bul 186:1-30; pa 10c Supt. of doc. '41

How will labor shortages affect canners? Barron's 22:6 Je 29 '42

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:1-34; pa 10c Supt. of doc. '41

Equipment

Bottom vents for vertical retorts. O. F. Ecklund and H. A. Benjamin. diags Food Ind 14:40-2+ Mr '42

Fifteen minutes from raw pineapple to canned fruit; Dole's Honolulu plant. il Mod Packaging 15:81-3+ F '42

Plant mechanization helps war effort; cooling and conveying equipment in Bristol Bay salmon canneries. M. E. Bridston. il Food Ind 14:50-1 O '42

Pointers on selecting an electric hoist. C. E. Schirmer. il Food Ind 14:46-7 S '42

Precision instruments speed quality control; determining sweet corn maturity by refractometer and new semi-automatic moisture tester. J. K. Cameron, K. G. Dykstra and J. E. Fix. Food Ind 14:60-3+ Jl '42

Waste

Feed yeast and industrial alcohol from citrus-waste press juice. A. J. Nolte, H. W. von Loesecke and G. N. Pulley. il Ind & Eng Chem 34:670-3 Je '42

Role of chemicals in industrial waste treatment; canneries, paper mills, beet sugar factories, slaughter-houses, laundries, etc. E. F. Eldridge. il Water Works & Sewerage 89:342-3 Ag '42

Treatment of vegetable cannery wastes. N. H. Sanborn. bibliog il Ind & Eng Chem 34:911-15 Ag '42

CANNING and preserving

Bottom vents for vertical retorts. O. F. Ecklund and H. A. Benjamin. diags Food Ind 14:40-2+ Mr '42

Canning practice and control. O. Jones and T. W. Jones. 2d ed rev & enl 311p 32s Chapman & Hall, London '41

Control of pH in canning acid foods. C. T. Townsend and M. J. Powers. il Food Ind 14:52-4 Ja '42

Fifteen minutes from raw pineapple to canned fruit; Dole's Honolulu plant. il Mod Packaging 15:81-3+ F '42

Heating curves; theory and practical application. F. C. W. Olson and J. M. Jackson. bibliog Ind & Eng Chem 34:337-41 Mr '42

Home canning for victory, also preserving, pickling and dehydrating. A. Pierce, ed. 106p $1.25 M. Barrows & co, 443 4th av. New York '42

Home canning up 50%. Comm & Fin Chr 156:374 Jl 30 '42

How to sulphur fruit for Great Britain. Food Ind 14:61+ Ja '42

Producing and storing the home food supply. diag Consumers' Research Bul 9:15-18 Mr '42

See also

Candied fruit
Canned food
Canneries
Tin cans

CANNIZZARO reaction

Action of alkali on cyclohexenecarbonals. H. E. French and D. M. Gallagher. Am Chem Soc J 64:1497-9 Jl '42

Novel type of Cannizzaro reaction. E. M. Fry, E. J. Wilson, jr. and C. S. Hudson. bibliog Am Chem Soc J 64:872-3 Ap '42

CANNON. See Guns (ordnance)

CANNON, Aircraft. See Guns, Aircraft

CANNON mills company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:19 O 17 '42

CANS

Alternate materials in product design. H. S. Van Vleet. Metals & Alloys 15:76-7 Ja '42

Blackplate cans limited by WPB. Oil Paint & Drug Rep 142:5+ Jl 27 '42

Can coatings; abstract. R. L. Jenkins. Chem Ind 50:64 Ja '42

Cans minus tin. Fortune 26:32 S '42

Cans on land, in the air, on the sea; use in war. il Mod Packaging 15:31-2 My '42

Drying oils, varnishes in blackplate stopped; lacquer terneplate packing order amended. Oil Paint & Drug Rep 142:5 N 9 '42

Outlook serious for metal containers, will improve in 1943. L. V. Burton. il Food Ind 14:41-3 Ap '42

Silver linings. A. Bregman. il Mod Packaging 15:60, 62, 64+ Ag '42

Steel cans? Business Week p80 Mr 14 '42

WPB bans use of metal cans for packing civilian lubes. Nat Pet N 34:15 S 9 '42

Wartime changes in metal containers. R. H. Lueck. il Food Ind 14:57-63 Ag '42

See also

Beer containers
Canned foods
Continental can company
Milk cans
Oil cans
Tin cans

CANS, Oil. See Oil cans

CANS, Tin. See Tin cans

CANTEENS

See also

Post exchanges

CANTHARIDIN

Structure of cantharidine and the synthesis of desoxycantharidine. R. B. Woodward and R. B. Loftfield. bibliog Am Chem Soc J 63:3167-71 N '41

CANTON, Ohio

Streets

Permanent lane markers at Canton. J. A. Shisler. il diag Eng N 129:221 Ag 13 '42

CANTON electric light and power company

SEC rules company is independent. Comm & Fin Chr 156:1147 S 28 '42

CANTONMENTS. See Military training camps

CANVAS

Canvas cover permits wet weather paving on concrete deck of Pit River bridge. il Eng N 128:223 F 5 '42

Standards for rot-proofing cordage and jute hessian or canvas. Textile Col 64:35 Ja '42

CANVASSING

Gypsum lays siege to replacement roofing market with 9-lb. sales plan. il Sales Management 50:22-4 My 15 '42

Tested direct selling. E. Wheeler and E. W. Proctor, jr. 145p $2 Prentice-Hall '42

CANYONS, Submarine

Phosphorite deposits on the sea floor off southern California. R. S. Dietz, K. O. Emery and F. P. Shepard. Geol Soc Bul 53:815-47, pl 1-3 bibliog(p846-7) Je '42

CAOUTCHOL

Caoutchol component of natural rubber; a correction. K. C. Roberts. Chem Soc J p223-5 Ap '42

CAPACITOR motors. See Electric motors, Induction

CAPACITORS. See Condensers (electricity)

CAPE COD

Pleistocene geology of western Cape Cod, Massachusetts. K. F. Mather, R. P. Goldthwait and L. R. Thiesmeyer. bibliog maps Geol Soc Bul 53:1127-74, pl 1-7 Ag '42

CAPILLARIES

Capillary cell and its application in air conditioning equipment. il Refrig Eng 43:304 My '42

Development of a capillary viscometer to measure viscosities in excess of 10 poises. A. H. Nissan. diags Inst Pet J 28:41-56, pl 1-2 Mr '42

Laboratory flowmeter with interchangeable precision-bore capillaries. F. C. Croxton. diag Ind & Eng Chem Anal ed 14:69-70 Ja 15 '42

Method for grinding the internal wall of small bore capillaries. E. P. de Turk and A. E. Lockenvitz. diag R Sci Instr 13:295-6 Jl '42

Variable capillary tube leak. D. S. Bayley. R Sci Instr 13:299-300 Jl '42

CAPILLARITY

Elimination of sorption-desorption hysteresis in hydrous oxide systems. H. B. Weiser, W. O. Milligan and J. Holmes. bibliog J Phys Chem 46:586-96 My '42

See also

Electrocapillarity

Surface tension

CAPITAL

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:19-26 D '41; 22:14-23 My '42

Capital flotations in the United States during the month of Dec. and for 1941. Comm & Fin Chr 155:243-4 Ja 15 '42

Capital flotations in the United States during the month of February and for the two months of the calendar year 1942. Comm & Fin Chr 155:1109-11 Mr 16 '42 [cont monthly]

Door to economic freedom. W. von Tresckow. Barron's 22:33 Jl 13; 3 Ag 3 '42

Factory plant and equipment expenditures over a quarter century. L. J. Chawner. il Dun's R 50:11-15+ O '42

Financing industry, now and after the war. A. H. Gordon. Inv Banking 12:9-12 O '42

Foreign investment in a postwar world. H. Feis. Fortune 26:86-7+ Jl '42; Abstract. Trusts & Estates 75:131-2 Ag '42

German Europe; capital markets. Economist 141:566 N 8 '41

Heavy capital formation during 1941. Survey of Cur Business 22:6-8 F '42

Invest in war and enterprise. T. A. Woodsum. Trusts & Estates 75:409 O '42

Keys to business cash; a guide to methods of new financing. W. H. Hillyer. 104p $1 Harper '42

Liquidity of war producers. C. B. Nickerson. Harvard Business R 20 no 3:369-74 [Ap] '42

New capital for entrepreneurs. G. H. Seferovich. Trusts & Estates 74:362-3 Ap '42

New capital in 1941. Economist 142:18-19 Ja 3 '42; Excerpts. Bankers M 144:233-4 Mr '42

New security issues for new capital and for refunding domestic, totals, 1932-1941, by months, Jan. 1941-Jan. 1942. Fed Res Bul 28:246 Mr '42 [cont monthly]

New statistics on corporate security issues, monthly, 1934-1941. Fed Res Bul 28:217-19, 247 Mr '42

Progressive economy and capital. G. Cassel. Trusts & Estates 73:600-1 D '41

Swords and plowshares; modern stocks and bonds originated in need of war finance. J. Early. Barron's 22:20 Mr 23 '42

Third quarter's capital. Economist 143:424 O 3 '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:306-42 O '42; Abstract. Management R 31:428-30 D '42

See also

Banks and banking

Corporations—Finance

Dividends

Economics

Industry

Interest

Investments

Labor and laboring classes

Monopolies

Profit

Stockholders

Trusts, Industrial

CAPITAL gains tax. See Income tax—Capital gains tax

CAPITAL goods industries. See Equipment industries

CAPITAL punishment

Capital punishment not a deterrent; it should be abolished. L. V. Briggs. 248p $2.50 for sale by Old corner book store, 50 Bromfield st, Boston '40

Capital punishment; the code of the serpent. R. Ford. 86p $1 Meador pub. co., Boston '41

CAPITAL surplus. See Surplus

CAPITAL transit company

Capital Transit; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:526-9 N '41

Capital transit company. O. Ely. Pub Util 30:366-8 S 10 '42

CAPITALISM

Capitalism and its culture. J. Davis. rev ed 556p bibliog(p521-48) $3 Farrar '41

Capitalism explained. T. E. Wiley. 192p $1.50 Catholic literary guild, Ozone Park, N.Y. '42

Capitalism will survive war. M. P. Cornelius. Nat Underw 46:17+ Ag 20 '42

Capitalistic system will be retained by America after war; abstracts. G. Stolper. Comm & Fin Chr 156:1092 S 24 '42; Trusts & Estates 75:348 O '42

Capitalistic warmongers: a modern superstition. W. Sulzbach. 35p pa 25c Univ. of Chicago press '42

Christian program for bankers. W. Temple. Bankers M 144:541 Je '42

Free enterprise and world politics. W. White. Mech Eng 64:215-16 Mr '42

How did we get this way? anatomy of capitalism. H. B. Loomis and J. B. Knox. Comm & Fin Chr 156:1697+ N 12 '42

Investment business and free security exchanges vital to American free enterprise; address at meeting of the governors of the Association of stock exchange firms, St Paul. J. F. Burns, jr. Comm & Fin Chr 156:979 S 17 '42

Self-feeding capitalism. J. E. Goodbar. Bankers M 144:532-4 Je '42

Shadow of coming events. L. Stern. Mag of Wall St 69:478-80, 511-12 F 7 '42

Theory of capitalist development; principles of Marxian political economy. P. M. Sweezy. 398p bibliog(p379-84) $4 Oxford '42

What, why, and how of American free enterprise. C. W. McKee, ed. 115p $1.50 Am. economic and business foundation, New Wilmington, Pa. '41

Work under capitalism and socialism. A. Leontyev. 62p bibliog(p61-2) 75c International publishers, New York '42

CAPITALISTS and financiers

Capitalistic warmongers, a modern superstition. W. Sulzbach. 34p pa 25c Univ. of Chicago press '42

Classification and financial experience of the customers of a typical New York stock exchange firm from 1933 to 1938. P. F. Wendt. 269p bibliog(p257-63) pa $2 Paul Francis Wendt, Maryville, Tenn. '41

Early American capitalists financed, in turn, our government's and America's growth. W. H. Hillyer. Barron's 21:9 D 8 '41

CAPRYLIC acid

Peroxides derived from η-aldehydo-octoic acid and nonaldehyde: bis-α-hydroxy-ω-carboxyoctyl peroxide and bis-α-hydroxynonyl peroxide. G. King. Chem Soc J p218-20 Mr '42

CAPS

Cold climate clothing; soldier's headgear. Textile Col 63:612 N '41

CAPSULES, Gelatin

Story book stuff; how your vitamin pills get that way; Gelatin products company. il Sales Management 51:52-3 O 20 '42

CAR. See Cars

CAR axles

Testing

Fatigue comparison of 7-in. diameter solid and tubular axles. O. J. Horger and T. V. Buckwalter. il Am Soc T M Proc 41:682-93; Discussion. 694-5 '41

Fatigue strength improved by flame treatment. O. J. Horger and T. V. Buckwalter. bibliog il diags Iron Age 148:47-53 D 18 '41

How surface condition affects fatigue strength; abstract. O. J. Horger and H. R. Neifert. Automotive Ind 85:78 D 1 '41

Mechanical detection of wheel-seat flaws in railway axles. F. C. Johansen. il Engineering 154:101-4 Ag 7 '42; Discussion. 154:133, 174, 215-16 Ag 14, 28, S 11 '42

CAR cards. See Advertising cards

CAR cleaning

Steam removes ice and dirt. Transit J 85:428-9 N '41

CAR cooling

Diesel drive for passenger air conditioning. J. R. Hornaday. flow diags il Refrig Eng 43:139-42 Mr '42

Passengers benefit by refinements in car design. Ry Age 111:857 N 22 '41

Railroad car and bus air conditioning; abstract. C. G. Callow. Refrig Eng 43:46-7 Ja '42

CAR decoration. See Cars—Decoration

CAR department officers' association

Five committee reports. Ry Mech Eng 116:462-9 N '42

CAR dumpers

Wagon tippers; patent specification. diags Mech Handling 29:169 S '42

CAR ferries. See Train ferries

CAR heating

Diesel drive for passenger air conditioning. J. R. Hornaday. flow diags il Refrig Eng 43:139-42 Mr '42

Passengers benefit by refinements in car design. Ry Age 111:857 N 22 '41

CAR lighting

Blackout strategy. R. D. Voshall. il Bus Transportation 21:126-9 Mr '42

Fluorescent lighting on rails; New York Central's new Empire State Express. Power Pl Eng 46:67 Ja '42

Modern railroad-car lighting. W. S. H. Hamilton. bibliog il diags Elec Eng 61:179-86 Ap '42

Specifications completed for blackout lighting; applicable to all vehicles. G. E. Doying, jr. Transit J 86:200-2 Je '42

CAR loadings. See Railroads—Freight

CAR numbering. See Freight cars—Numbering

CAR painting and finishing

Modern spray room at Toronto shops. il Mass Transportation 38:78 Mr '42

CAR sanitation

Passenger car and coach yard sanitation. N. J. Capaldo. il Ry Mech Eng 116:24-6 Ja '42

CAR seats

Exhibits of transit equipment; seats and upholstery; pictorial review. Transit J 86:342-4 S '42

Transit seat saves steel. il Transit J 86:111 Mr '42

CAR shops

More intensive use of car-repair facilities. J. B. Roman and others. il diags Ry Mech Eng 116:151-4 Ap '42

See also
Railroads—Shops

Equipment

Great Northern car-shop devices. P. P. Barthelemy. il Ry Mech Eng 116:306-11 Jl '42

Great Northern car shop devices; illustrations. Ry Mech Eng 116:351, 398 Ag-S '42

Riveting service truck. il Ry Mech Eng 116:121 Mr '42

Rose Lake car shop devices. il Ry Mech Eng 116:70-1 F '42

St Louis Refrigerator Car shop kinks. il Ry Mech Eng 116:23-4 Ja '42

Two straightening devices for steel car sides and end gates. diags Ry Mech Eng 116:27 Ja '42

CAR springs

Better rides from conventional passenger trucks. il diags Ry Age 113:475-8 S 26 '42; Same, with additional diags. Ry Mech Eng 116:407-12 O '42

Supplementary list of snubber applications. Ry Age 113:752-3 N 7 '42

Tank cars need spring snubbers. Ry Age 113:423 S 12 '42; Same. Ry Mech Eng 116:434 O '42

CAR trucks

Better rides from conventional passenger trucks. il diags Ry Age 113:475-8 S 26 '42; Same, with additional diags. Ry Mech Eng 116:407-12 O '42

Passengers benefit by refinements in car design. il Ry Age 111:856-7 N 22 '41

CAR ventilation

See also
Car cooling

CAR wheels

Accurate recording of tyre profiles. C. W. Newberry. il diags Engineering 153:361-3 My 8 '42

Grinding coal-car wheels concentric. il Mach 48:162 Je '42

Measurement of stresses in car wheels. R. L. Kenyon and H. Tobin. il diags Ry Mech Eng 115:516-23; 116:6-14+ D '41-Ja '42

Multiple and two-wear wrought steel wheels; service life may be extended by increasing flange thickness 7/32 in. J. B. Roman. diags Ry Mech Eng 116:151-3 Ap '42

Rosette method of stress measurements. R. L. Kenyon and H. Tobin. Ry Age 112:256+ Ja 24 '42

Tank cars should get steel wheels. Ry Age 113:747 N 7 '42

Testing

Micrometer for measuring subway-car wheels. A. M. Thomas. il Mach 48:138 My '42

CAR windows

Application of cellophane to car windows to prevent steaming and frosting. Consumers' Research Bul 9:19-20 Ja '42

Washers clear up car windows smudged in Moffat tunnel. il diags Ry Age 112:380-1+ F 14 '42

CARBANILIC acid

Identification of alcohols by means of the optical properties of the esters of carbanilic acid. B. T. Dewey and N. F. Witt. Ind & Eng Chem Anal ed 14:648 Ag 15 '42

CARBAZOLE

Graebe-Ullmann synthesis of carbazole derivatives; preparation and synthesis of 1-nitrocarbazole. R. W. G. Preston, S. H. Tucker and J. M. L. Cameron. Chem Soc J p500-4 Ag '42

Preparation of 1-substituted carbazoles. N. Campbell and J. A. R. MacLean. Chem Soc J p504-5 Ag '42

CARBIDE tools. See Cutting tools, Carbide

CARBIDES

See also
Cutting tools, Carbide
Silicon carbide
Tungsten carbide

CARBINES. See Rifles

CARBINOLS

Antiplasmodial action and chemical constitution; carbinolamines derived from 6-methoxyquinoline. H. King and T. S. Work Chem Soc J p401-4 Je '42

Decomposition of certain acetylenic carbinols A. F. Thompson, jr. and C. Margnetti bibliog Am Chem Soc J 64:573-6 Mr '42

Kinetics and equilibria of the carbinol formation of phenolphthalein. M. D. Barnes and V. K. LaMer. bibliog Am Chem Soc J 64:2312-16 O '42

CARBINOLS—*Continued*

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

CARBOCYANINES

Thiazinocyanines; carbocyanines containing the 2 : 4-benzthiazine nucleus. B. Beilenson and F. M. Hamer. Chem Soc J p98-102 F '42

CARBOHYDRATES

Carbohydrate content of collagen. J. Beek, jr. J Research Nat Bur Stand 27:507-17 D '41

Carbohydrate sulphuric esters; the isolation of 3 : 6-anhydromethylhexosides from methylhexopyranoside sulphates. R. B. Duff and E. G. V. Percival. Chem Soc J p830-3 D '41

Construction of complex molecular models with application to carbohydrates. R. S. Bear. bibliog il J Chem Educ 19:227-30 My '42

Effect of temperature on the validity of Hudson's rules of isorotation. W. Kauzmann. bibliog Am Chem Soc J 64:1626-9 Jl '42

Nature of the carbohydrate residue in ovomucoid; hydrolysis of the methylated carbohydrate residue. M. Stacey and J. M. Woolley. Chem Soc J p550-5 S '42

Origin and transformation of carbohydrates in plants. H. A. Spoehr. J Chem Educ 19:20-3 Ja '42

Sensitization and surface charge of lyophilic colloids. E. A. Hauser and M. R. Cines. bibliog J Phys Chem 46:705-9 Je '42

See also

Aldehydes
Cellulose
Glucose
Starch
Sugars

Analysis

Supersensitive Schiff's aldehyde reagent; demonstration of a free aldehyde group in certain aldoses. W. C. Tobie. bibliog Ind & Eng Chem Anal ed 14:405-6 My 15 '42

CARBOLIC acid. See Phenol

CARBON

Atomic weight comparisons from density and X-ray data: fluorine, calcium, and carbon. C. A. Hutchison. J Chem Phys 10:489-90 Jl '42

Calculation of the valence angle. W. H. Dore. diags J Chem Educ 19:29-30 Ja '42

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles, p739-41); Discussion. 741-6 S '42

Centrifugal dryer; recovering 10-mesh slurry carbon; preparation-plant, Sentry coal mining co., Madisonville, Ky. J. H. Edwards. il Coal Age 46:47 N '41

Further electron microscope studies on colloidal carbon and the role of surface in rubber reinforcement. W. B. Wiegand. Can Chem & Process Ind 25:579-81 N '41; Same. India Rubber W 105:270-2 D '41

Heat of sublimation of carbon. G. Herzberg. bibliog J Chem Phys 10:306-7 My '42

Heats of wetting for the evaluation of gas-adsorbing coconut carbons. H. W. Stone and R. O. Clinton. bibliog diag Ind & Eng Chem Anal ed 14:131-5 F 15 '42

Valence angle of the carbon atom. G. L. Gombert. bibliog il J Chem Educ 18:336-7 Jl '41; Discussion. P. F. Weatherill. 19:35 Ja '42

Yield of neutrons from deuterons on carbon. C. L. Bailey, M. Phillips and J. H. Williams. Phys R 62:80 Jl 1 '42

See also

Carbon black
Charcoal
Coal
Coke
Diamonds
Diamonds, Industrial
Graphite

Analysis

Audit of the carbon, oxygen and hydrogen in an iron blast furnace. J. S. Fulton. Blast F & Steel Pl 30:83-8, 233-7, 339-44 Ja-Mr '42

Carbon-in-steel determination apparatus. diag Engineer 174:100 Jl 31 '42

Carbon pressure control of furnace atmospheres. J. R. Gier. il Steel 109:54+ D 22 '41

Determination of carbon and hydrogen in bone black and other chars. V. R. Deitz and L. F. Gleysteen. bibliog diags J Research Nat Bur Stand 28:795-805 Je '42

Determination of carbon in low-carbon iron and steel; low-pressure combustion method. L. A. Wooten and W. G. Guldner. bibliog diags Ind & Eng Chem Anal ed 14:835-8 O 15 '42

Gas-fired furnace for semimicrodetermination of carbon and hydrogen. H. A. Pagel. il Ind & Eng Chem Anal ed 14:764-6 S 15 '42

Magnetic methods for determining carbon in steel. B. A. Rogers, K. Wentzel and J. P. Riott. bibliog il diags Am Soc for Metals Trans 29:969-84; Discussion. 984-6 D '41

New method for the rapid determination of carbon in samples of plain carbon open-hearth steel. B. A. Rogers, K. Wentzel and J. P. Riott. pl diag In U S Bur Mines Bul 425:345-53 '41

Semimicrodetermination of carbon using the Van Slyke-Folch oxidation mixture. R. M. McCready and W. Z. Hassid. diags Ind & Eng Chem Anal ed 14:525-6 Je 15 '42

Universal apparatus for micro- or semi-micro-determination of carbon and hydrogen. G. Ingram. bibliog diags Soc Chem Ind J 61:112-15 Jl '42

Isotopes

Mass differences of the fundamental doublets used in the determination of the isotopic weights C^{12} and N^{14}. E. B. Jordan. diags Phys R 60:710-13 N 15 '41

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

Tracer studies with radioactive carbon and hydrogen; the synthesis and oxidation of fumaric acid. M. B. Allen and S. Ruben. bibliog Am Chem Soc J 64:948-50 Ap '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

CARBON, Activated

Accuracy and application of threshold odor tests. C. H. Spaulding. Am Water Works Assn J 34:900-5 Je '42

Activated carbon. W. A. Helbig. il J Chem Educ 19:194-6 Ap '42

Activated carbon from hydrocarbons and chlorine. G. W. Stratton and D. E. Winkler. bibliog diag Ind & Eng Chem 34:603-6 My '42

Activated carbon in sugar refining. E. W. Harris. bibliog il diags Ind & Eng Chem 34:1057-60 S '42

Active carbon in crystallization processes. M. Faye and R. A. Hagberg. il Chem Ind 50:358-9 Mr '42

Active carbon, the modern purifier. J. W. Hassler. 159p bibliog(p96-139) $1 Industrial chemical sales div, West Virginia pulp & paper co, New York '41

Adsorption of organic compounds; adsorption of ampholytes on an activated charcoal. V. H. Cheldelin and R. J. Williams. bibliog Am Chem Soc J 64:1513-16 Jl '42

Adsorption studies of vapors in carbon packed towers. H. C. Engel and P. Coull. bibliog Am Inst Chem Eng Trans 38:947-64; Discussion. 964-5 O '42

Carbon blackout for preventing algae growths in reservoirs. H. O. Hartung and V. C. Lischer. il Water & Sewage 80:20+ My '42

Catalytic oxidation of sulfite waste liquor by atmospheric oxygen. I. A. Pearl and H. K. Benson. bibliog Ind & Eng Chem 34:436-8 Ap '42

Coconut shell charcoal; effect of concentration of zinc chloride and of hydrochloric acid on activity. L. Ts'ai and K. Chuang. Ind & Eng Chem 34:812-13 Jl '42

Decolorizing filter aids; Kyrite and Dicalite M-23. R. Boyd and R. W. Schmidt. il Ind & Eng Chem 34:744-8 Je '42

CARBON, Activated—*Continued*

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

Making activated charcoal for gas masks; abstract. M. E. Barker. Chem & Met Eng 49:215-16 S '42

New technique for adsorption studies. J. Coull, H. C. Engel and J. Miller. bibliog diags Ind & Eng Chem Anal ed 14:459-62 Je 15 '42

Relative efficiency of activated carbon and aeration in the removal of tastes and odors. G. G. Bogren. N E Water Works Assn J 56:184-7; Discussion. 187-91 Je '42

Surface available to nitrogen on bone black and other carbonaceous adsorbents. V. R. Deitz and L. F. Gleysteen. diags J Research Nat Bur Stand 29:191-225 S '42

Where to apply activated carbon for effective taste and odor control. diags Water & Sewage 80:20+ Jl '42

CARBON, Structural

Carbon and graphite; properties, uses, etc. Product Eng 13:469-70 Ag '42

Carbon offers solution to materials problems. F. W. Korfmann. il diags Machine Design 14:61-5+ My '42

Structural carbon and graphite; representative physical properties. Chem & Met Eng 49:96-7 S '42

CARBON black

Carbon black process; Continental carbon company. J. M. Crowe. Chem Ind 50:64 Ja '42

Carbon black studies with the electron microscope; abstract. H. Heering, I. von Gizycki and A. Kirseck. Chem & Met Eng 49:180 F '42

Colloidal carbon as revealed by the electron microscope. W. B. Wiegand and W. A. Ladd. il Rubber Age 50:431-6 Mr '42

Colloidal carbon compounding for conservation. C. R. Haynes. India Rubber W 105:478-80 F '42

Effect of carbon black on the strength of mortar. D. O. Woolf. Pub Roads 22:231-2 D '41

Effect of carbon blacks in synthetic tire compounds, standardized American butadiene-styrene rubber. B. S. Garvey, jr., and J. A. Freese, jr. bibliog Ind & Eng Chem 34:1277-83 N '42

Effect of reinforcing pigments on rubber hydrocarbon. F. S. Thornhill and W. R. Smith. bibliog il Ind & Eng Chem 34:218-24 F '42

Further electron microscope studies on colloidal carbon and the role of surface in rubber reinforcement. W. B. Wiegand. Can Chem & Process Ind 25:579-81 N '41; Same. India Rubber W 105:270-2 D '41

Low heat generation channel carbon black for military-type tires. C. R. Johnson. India Rubber W 106:257 Je '42

Naftolen as a plasticizer and extender for rubber in carbon black compounds. F. Rostler and V. Mehner. India Rubber W 105:473-7 F '42

Naftolen in carbon black compounds containing reclaim. F. Rostler and K. Rostler. India Rubber W 107:163-8 N '42

Relation of paint properties to surface areas of carbon black. O. J. Brown, jr. and W. R. Smith. bibliog il Ind & Eng Chem 34:352-5 Mr '42

Study of carbon blacks in natural and synthetic rubbers. I. Drogin. il India Rubber W 106:561-9; 107:42-9, 272-7 S-O, D '42; Abstract. Rubber Age 51:483-8 S '42

United carbon company sponsors two conferences on the use of carbon blacks in the compounding of synthetic rubbers. Rubber Age 51:419 Ag '42; India Rubber W 106:596 S '42

X-ray study of carbon black. J. Biscoe and B. E. Warren. bibliog il J Ap Phys 13:364-71 Je '42

See also
Bone black

Bibliography

Carbon black. (Petroleum bibliog. no. 8) 7p Tulsa public lib, Tulsa, Okla. '42

Manufacture

Isothermal control of channel carbon black production. C. R. Johnson. il India Rubber W 105:367-8 Ja '42

More uniform production claimed for carbon black; isothermal control. Rubber Age 50:291 Ja '42

Review of statutory regulations in the carbon-black industry. L. Moses. bibliog Oil & Gas J 40:30-1 Ap 9 '42

Statistics

Carbon black production, 1941 and 1942. Oil Paint & Drug Rep 141:42 Je 22 '42

CARBON bonds. See Chemical bonds

CARBON compounds

Spectral lines; carbon hydride in interstellar space. M. Mott-Smith. Science 96:sup10 S 4 '42

See also
Carbohydrates
Chemistry, Organic
Hydrocarbons

CARBON dioxide

Apparatus to deliver a measured amount of CO_2 for blood cultures. M. Levine and H. Siedentopf. diag Science 95:130-1 Ja 30 '42

Binary system carbon dioxide-water under pressure. R. Wiebe. bibliog Chem R 29:475-81 D '41

Carbon dioxide generator. J. A. Johnston. diag Ind & Eng Chem Anal ed 14:805 O 15 '42

Corrosion of steel by dissolved carbon dioxide and oxygen. G. T. Skaperdas and H. H. Uhlig. bibliog diag Ind & Eng Chem 34:748-54 Je '42

Joule-Thomson effect in carbon dioxide. J. R. Roebuck, T. A. Murrell and E. E. Miller. bibliog Am Chem Soc J 64:400-11 F '42

Kinetics and rapid thermochemistry of carbonic acid. F. J. W. Roughton. bibliog Am Chem Soc J 63:2930-4 N '41

On the $^2\Pi_u \rightarrow {}^2\Pi_g$ bands of CO_2^+. S. Mrozowski. bibliog il Phys R 60:730-8; 62:270-9 N 15 '41, S 1 '42

Origin of underground carbon dioxide. F. E. E. Germann and H. W. Ayres. bibliog diags J Phys Chem 46:61-8 Ja '42

Packed tower performance at high liquor rates; the effect of gas and liquor rates upon performance in a tower packed with two-inch rings. C. M. Cooper, R. J. Christl and L. C. Peery. bibliog diags Am Inst Chem Eng Trans 37:979-93 D '41; Abstract. Chem & Met Eng 48:163 N '41; Discussion. Am Inst Chem Eng Trans 37:993-6 D '41

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Rate of absorption of carbon dioxide in diethanolamine solutions. D. S. Cryder and J. O. Maloney. bibliog diags Am Inst Chem Eng Trans 37:827-52 O '41; Discussion. 38:247-50 Ap '42

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42

Stability of ascorbic acid in citrus fruit juice products. A. W. E. Downer. bibliog Soc Chem Ind J 61:80-2 My '42

Stop corrosion attack; carbon dioxide in water may cause trouble. il Power 86:116-17 F '42

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

Ventilation and heating of air raid shelters; ventilation vs. gas. J. F. Kern, jr. il diags Heat & Ven 39:42-50 F '42

See also
Photosynthesis

CARBON dioxide—*Continued*

Analysis

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

Calculation of corrections to conductivity measurements for dissolved gases. D. S. McKinney. Am Soc T M Proc 41:1285-95; Discussion. 1296-1301 '41

Detection of carbon dioxide and sulfur dioxide from mixtures of carbonates and sulfites. G. B. Heisig and A. Lerner. diag Ind & Eng Chem Anal ed 13:843 N 15 '41

Experimental methods of determining conductivity corrections for dissolved gases in steam condensate. S. F. Whirl and W. A. Lower. diags Am Soc T M Proc 41:1277-84; Discussion. 1296-1301 '41

See also

Flue gas—Analysis

Industrial applications

Allies of refrigeration in food preservation. A. W. Ewell. Refrig Eng 43:159-60 Mr '42

Built-in fire protection; carbon dioxide systems for intense fire hazards. il diag Can Chem & Process Ind 26:17-18 Ja '42

CO_2 displacement of air aids in welding transformer. W. Fitzstephens. diag Elec W 117:670 F 21 '42

Cardox airport fire truck. il Automotive & Aviation Ind 87:35+ Ag 15 '42

Controlled atmosphere storage for Jonathan apples; storing in four levels of carbon dioxide concentration by restricted ventilation. H. H. Plagge. bibliog il Refrig Eng 43:215-20 Ap '42

Fighting coal-bunker fires; using CO_2 (gas, liquid and dry ice). D. Gutleben. diag Power 86:44 Ja '42

Fire protection goes automatic; built-in extinguishing systems are trend in paint protection. P. W. Eberhardt. il Paint Oil & Chem R 104:16, 18 Ap 9 '42

Guarding against the flammable liquid fire hazard. C. L. Griffin. il Ind & Eng Chem 34:664-9 Je '42

Hazards due to electric shock transmitted across discharge spray of compressed carbon dioxide. R. L. Grant. bibliog pls diag U S Bur Mines Rep of Invest 3656:1-7 '42

Industrial applications of carbon dioxide. N. W. Kennedy. Chem & Ind 61:129-31 Mr 14 '42

Installation and maintenance of CO_2 fire extinguishing systems; prevention of engine fires in aircraft. J. M. Noble. il diags Aviation 41:148-9 Mr '42

Pop-gas aids war drive; carbon dioxide for fire extinction. P. W. Eberhardt. il diags Sci Am 166:269-71 Je '42

Stabilization of lime-softened water with carbon dioxide gas. C. P. Hoover. bibliog il diag Am Water Works Assn J 34:1425-45; Discussion. 1445-54 S '42

Manufacture

Carbon dioxide from lime kilns. V. J. Azbe. diag Rock Prod 45:57+ S '42

CARBON dioxide, Solid

Dry-ice containers secure new traffic. il Ry Age 111:799-800 N 15 '41

Dry ice now used in .22 caliber guns; invention of R. J. Monner. L. Y. Yont. il Refrig Eng 44:91+ Ag '42

Dry ice utilized to complete fire extinguishment. Coal Age 47:51 S '42

Industry of solid carbon dioxide. D. H. Killeffer. il J Chem Educ 19:482-4 O '42

Thermodynamics of deep refrigeration. R. C. H. Heck. Mech Eng 64:473-4 Je '42

CARBON dioxide in the body

Carbon dioxide utilization in animal tissues. E. A. Evans, jr. bibliog Science 96:25-9 Jl 10 '42

Eli Lilly prize won by Dr Evans; role of carbon dioxide in the animal body. Oil Paint & Drug Rep 141:7+ Ap 6 '42

CARBON dioxide recorders

Steam economy and CO_2. D. D. Howat. il diags Chem Age (Lond) 47:202-4, 221-3 Ag 29-S 5 '42

CARBON disulfide

Solubility of carbon disulfide vapor in body fluids and tissues. R. W. McKee. il J Ind Hygiene 23:484-9 D '41

CARBON disulfide poisoning

Experimental chronic carbon disulfide poisoning in dogs. F. H. Lewey and others. bibliog il diag J Ind Hygiene 23:415-36 N '41

CARBON hydride. See Carbon compounds

CARBON monoxide

Carbon monoxide and particulate matter in air of Holland tunnel and metropolitan New York. W. P. Yant and others. diags pls U S Bur Mines Rep of Invest 3585:1-69 '41

Decomposition of carbon monoxide by ferromagnetic metals. F. Olmer. bibliog diag J Phys Chem 46:405-14 Mr '42

Further studies on the oxidation of nitric oxide; the rate of the reaction between carbon monoxide and nitrogen dioxide. F. B. Brown and R. H. Crist. bibliog diags J Chem Phys 9:840-6 D '41

Hydrogen fluoride as a condensing agent; reactions of carbon monoxide. J. H. Simons and A. C. Werner. Am Chem Soc J 64:1356-7 Je '42

Mechanism of biological nitrogen fixation; carbon monoxide as an inhibitor for nitrogen fixation by red clover. C. J. Lind and P. W. Wilson. bibliog Am Chem Soc J 63:3511-14 D '41

Photochemical studies; the photochemical decomposition of acetone in the presence of an inert gas. J. J. Howland, jr. and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3404-6 D '41

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42

Analysis

Simple micro-gasometric method of estimating carbon monoxide in blood. P. F. Scholander and F. J. W. Roughton. diags J Ind Hygiene 24:218-21 O '42

CARBON monoxide poisoning

Atmospheric sabotage. F. W. Hutchinson. Heat & Ven 39:47-9 Jl '42

Experiments on carbon monoxide poisoning in tents and snow houses. L. Irving, P. F. Scholander and G. A. Edwards. il J Ind Hygiene 24:213-17 O '42

Medical study of men exposed to measured amounts of carbon monoxide in the Holland tunnel for 13 years. R. F. Sievers, T. I. Edwards and A. L. Murray. (Pub. health bul. no.278) 74p bibliog(p65-72) U.S. Public health service, Washington; pa 15c Supt. of doc. '42

Studies on the mechanism of carbon monoxide poisoning as observed in dogs anesthetized with sodium amytal. W. F. von Oettingen and others. (Pub. health bul. 274) 50p bibliog(p50) U.S. Public health service, Washington; pa 10c Supt. of doc. '41; Review. Pub Health Rep 57:213-14 F 6 '42

CARBON oxides

See also

Carbon dioxide

Carbon monoxide

CARBON tetrabromide

Equilibrium in the gas reaction, $CHBr_3+Br_2\rightleftharpoons CBr_4+HBr$. J. W. Strong and R. N. Pease. J Chem Phys 10:79-80 Ja '42

CARBON tetrachloride

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:51 O 22 '42

Chlorination of methane. E. T. McBee and others. bibliog flow diag il diags Ind & Eng Chem 34:296-300 Mr '42

Determination of rotenone in derris root. H. E. Coomber, J. T. Martin and S. H. Harper. diags Soc Chem Ind J 61:110-12 Jl '42

CARBON tetrachloride—*Continued*

Effect of operating variables on the performance of a packed column still; system carbon tetrachloride-benzene. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38: 259-80 Ap '42

Equilibrium diagram of the system carbon tetrachloride-*t*-butyl chloride as revealed by dielectric constant measurements. W. P. Conner and C. P. Smyth. Am Chem Soc J 63:3424-8 D '41

Extraction of oil from a porous solid. D. F. Boucher, J. C. Brier and J. O. Osburn. bibliog diags Am Inst Chem Eng Trans 38:967-92; Discussion. 992-3 O '42

Industry committee presents report on Freon refrigerants to the OPM; minimum requires 17 per cent of available carbon tetrachloride. Heating-Piping 14:9-10 Ja '42

Magnitude of the solvent effect in dipole-moment measurements; the solvent-effect constant and the moments of alkyl iodides. A. Audsley and F. R. Goss. Chem Soc J p358-66 My '42

Measurement of dielectric constants by the comparison method; the dielectric constant of carbon tetrachloride from 15 to 40°. J. G. Miller. bibliog Am Chem Soc J 64:117-21 Ja '42

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

Reactions of bromine with carbon tetrachloride and tetrachloroethylene following neutron capture and isomeric nuclear transition. E. G. Bohlman and J. E. Willard. bibliog Am Chem Soc J 64:1342-6 Je '42

Virtual masses and moments of inertia of disks and cylinders in various liquids. Y. Yu. diag J Ap Phys 13:66-9 Ja '42

Viscometric estimation of particle dimensions; the system stearic acid-carbon tetrachloride. J. P. Hollihan and D. R. Briggs. bibliog J Phys Chem 46:685-93 Je '42

Water effects upon the photochemical bromination of acetophenone. E. M. Hicks, M. H. Hicks and J. R. Sampey. bibliog Am Chem Soc J 64:887-9 Ap '42

Prices

Carbon tetrachloride price ceiling set. Oil Paint & Drug Rep 141:3+ F 2 '42

CARBON tetrachloride poisoning

Maximal allowable concentrations; carbon tetrachloride. H. B. Elkins. bibliog J Ind Hygiene 24:233-5 O '42

CARBONATES

Electrochemical behavior of the lead-tin couple in carbonate solutions; abstract. G. Derge, H. Markus and A. Grobe. Iron Age 149:59 F 19 '42

See also
Alkyl carbonates
Calcium carbonate
Dolomite

Analysis

Rapid procedure for determination of carbonate. A. C. Kuyper and L. M. Jones. Ind & Eng Chem Anal ed 13:801-2 N 15 '41

CARBONIC acid

See also
Carbon dioxide

CARBONS, Projector. See Moving picture projectors

CARBONYL compounds

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the dineopentylcarbinyl group. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1247-53 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds: ketones containing the methyl-*t*-butylneopentylcarbinyl group and their bromomagnesium enolates. F. C. Whitmore and D. I. Randall. bibliog Am Chem Soc J 64:1242-6 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; methyl triethylcarbinyl ketone and its bromomagnesium enolate. F. C. Whitmore and C. E. Lewis. Am Chem Soc J 64:1618-19 Jl '42

Behavior of certain carbonyl bridge compounds with alkaline hydrogen peroxide. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2439-42 O '42

Carbonyl bridge compounds. C. F. H. Allen and J. Van Allan. bibliog Am Chem Soc J 64:1260-7 Je '42

Carbonyl compounds as oxidizing agents. H. Adkins. J Chem Educ 19:218-21 My '42

Comparative reactivity of the carbonyl groups in the thionaphthenquinones; the constitution of certain thioindigoid dyes. J. Harley-Mason and F. G. Mann. Chem Soc J p404-15 Je '42; Abstract. Soc Dyers & Col J 58:209-11 O '42

Grignard reactions; sterically hindered aliphatic carbonyl compounds; enolization studies. F. C. Whitmore and L. P. Block. bibliog Am Chem Soc J 64:1619-21 Jl '42

Ketene acetals; the reaction of ketene diethylacetal with α, β-unsaturated carbonyl compounds. S. M. McElvain and H. Cohen. bibliog Am Chem Soc J 64:260-5 F '42

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

Raman spectra evidence for hindrance of resonance by ortho substitution. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 63:3121-3 N '41

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

Resonance and the hindered carbonyl-Grignard reaction. R. T. Arnold, H. Bank and R. W. Liggett. bibliog Am Chem Soc J 63:3444-6 D '41

Study of organic parachors; constitutive variations of the parachors of a series of normal ketones. K. Owen, O. R. Quayle and W. J. Clegg. Am Chem Soc J 64:1294-6 Je '42

Analysis

Determination of carbonyl groups in bile preparations. A. E. Light. Ind & Eng Chem Anal ed 14:42-3 Ja 15 '42

Identification of carbonyl compounds through conversion into hydantoins. H. R. Henze and R. J. Speer. Am Chem Soc J 64:522-3 Mr '42

CARBORUNDUM. See Silicon carbide

CARBOXYL group

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

CARBOXYLATION

Carboxylation; the peroxide-catalyzed reaction of oxalyl chloride with the side-chains of aralkyl hydrocarbons; a preliminary study of the relative reactivity of free radicals. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:1621-4 Jl '42

Carboxylation; the photochemical and peroxide-catalyzed reactions of oxalyl chloride with paraffin hydrocarbons. M. S. Kharasch and H. C. Brown. bibliog Am Chem Soc J 64:329-33 F '42

Carboxylation; the reaction of oxalyl chloride with unsaturated hydrocarbons. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:333-4 F '42

CARBOXYLIC acids

Ammonium salts of aliphatic carboxylic acids. S. Zuffanti. bibliog Am Chem Soc J 63: 3123-4 N '41

1-Carbamyl-5-methylpyrazole-3-carboxylic acid. A. L. Lehninger. Am Chem Soc J 64:2507-8 O '42

Carboxylic acid derivatives of 4 : 4′-diaminodiphenylsulphone. W. H. Gray and B. C. Platt. Chem Soc J p42-5 Ja '42

CARBOXYLIC acids—*Continued*

Electron-sharing ability of organic radicals; the effect of the radicals on the degree of association of polar molecules. F. A. Landee and I. B. Johns. bibliog diags Am Chem Soc J 63:2891-5 N '41

CARBOXYMETHYLCELLULOSE

Chemical and physical properties of carboxymethylcellulose and its salts. C. J. Brown and A. A. Houghton. Soc Chem Ind J 60: 254-8 O '41

CARBURETERS

Aircraft carburetor airscoops and their effect on fuel-air metering in flight. F. C. Mock. il diags S A E J 50:102-19; Discussion. 119-24 Mr '42

Carburetor icing. A. N. Troshkin. il Aero Digest 40:160, 164+ Ja '42; Same cond. Civil Aero J 3:6 Ja 1 '42

Eliminating dust and dirt from the air intake. diags Aero Digest 41:160+ Ag '42

Governor design; scheme based upon charge control, evolved by the Solex co. il diags Automobile Eng 32:397-400 O '42

Icing problems in aircraft induction systems L. B. Kimball. il S A E J 50:40-8; Discussion. V. J. Skoglund. 49-51 F '42

Keep 'em plowing; simple mechanical adjustments save fuel. il Nat Pet N 34:32, 34-5 Jl 8 '42

Manhattan & Queens gets 'em while they're hot. il Bus Transportation 20:572 D '41

Manufacture

Broaching provides more uniform fuel mixture for carburetors. il Steel 109:91 N 17 '41

Carburettor production; specialised methods as applied to aircraft components. il diag Automobile Eng 32:218-24 Je '42

Testing

Flow bench testing of Stromberg injection carburetors. F. C. Mock. il Instruments 15: 316, 318 Ag '42

CARBURIZING. See Case hardening

CARCINOMA. See Cancer

CARD system in business

See also

Punched card system

CARDING of cotton. See Cotton carding

CARDIOGRAPH

Reflections on the interpretation and use of the electrocardiogram. S. B. Scholz. East Underw 42:11-12 D 12 '41

CARDIOVASCULAR system

Cardiovascular survey of supervisors. W. L. Cook, jr. Ind Med 11:320-1 Jl '42

Cardiovascular system; relationship between injuries and diseases. J. H. Crawford. bibliog Ind Med 11:150-3 Ap '42

CARENE epoxide

1 : 3 : 3-Trimethyl-Δ^1-*cyclo*hexene-4-carboxylic acid; its formation from *l*-Δ^3-carene-5 : 6-epoxide. A. R. Penfold and J. L. Simonsen. Chem Soc J p206-9 Mr '42

CARGO handling

Modern ship stowage; including methods of handling cargo at ocean terminals. J. Leeming. il diags U S Bur For & Dom Com Industrial Ser 1:1-719; $1.50 Supt. of doc. '42

CARIBBEAN region

U.S., Britain create Caribbean commission. Comm & Fin Chr 155:1154 Mr 19 '42

See also

Air lines—Caribbean region

Puerto Rico

CARMODY, John Michael

Key men of the Maritime commission. Marine Eng 47:166 O '42

CARNATION company

Debentures and new preferred stock to be sold privately. Comm & Fin Chr 156:512 Ag 10 '42

CARNAUBA wax

Brazil's tree of life; greatest source of wax. W. N. Small. il For Comm W 8:8-10+ S 5 '42

Carnauba palm; a fruitful source of many products. Chem Age (Lond) 47:281 S 26 '42

Manila gums; the use of Manila copals in bright drying floor waxes. R. W. Allan. Soap & San Chem 17:120 D '41

Offer new federal specifications for furniture polish, auto polish, floor sealer, carnauba wax. Soap & San Chem 18:131 Jl '42

Some measurements on the validity of the principle of superposition in solid dielectrics. H. Silva and B. Gross. Phys R 60: 684-7 N 1 '41

CARNEGIE corporation

Metonic span in the work of the Carnegie corporation. F. P. Keppel. Science 94:586-7 D 19 '41

CARNEGIE endowment for international peace

Library

Library of the Carnegie endowment for international peace in wartime. H. L. Scanlon. Special Lib 33:302-3 O '42

CARNEGIE-ILLINOIS steel corporation

Stockholders resolve that government should co-operate with U.S. Steel. Steel 110:77-8 My 11 '42

Sued by government. Comm & Fin Chr 155: 1673 Ap 27 '42

U.S. Steel gives reasons for closing Canonsburg plant. Blast F & Steel Pl 30:921 Ag '42

CARNEGIE institute, Pittsburgh

Museum

New botanical hall at Carnegie museum. Science 95:347-8 Ap 3 '42

CARNEGIE institution of Washington

Defense work. Science 95:199-200 F 20 '42

Scientific work. V. Bush. Science 95:73-4 Ja 16 '42

Year book no. 40, July 1, 1940-June 30, 1941; with administrative reports through December 12, 1941. 346p bibliog(p335-6) $1.50; pa $1 Carnegie institution of Washington, Washington, D.C. '41

CARNEGIE library of Pittsburgh. See Pittsburgh—Libraries

CARNIVALS, Traveling

Show goes on, with Diesels; World of mirth shows, inc. il Diesel Power 20:119-20 F '42

CARNOTITE

Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42

CAROLINA bays

Origin of the Carolina bays. D. Johnson. 341p $4.50 Columbia univ. press '42

CAROLINA maneuvers. See Military maneuvers

CAROTENE

Isomerization of β-carotene; isolation of a stereoisomer with increased adsorption affinity. A. Polgár and L. Zechmeister. bibliog Am Chem Soc J 64:1856-61 Ag '42

Pro-γ-carotene. L. Zechmeister and W. A. Schroeder. bibliog il Am Chem Soc J 64: 1173-7 My '42

Some observations on carotene losses in storage. R. O. Davies. Chem & Ind 61:275-6 Je 20 '42

Vitamin-*A* value of carotene in vegetables. H. C. H. Graves. bibliog Chem & Ind 61: 8-10 Ja 3 '42

Analysis

Activation of dicalcium phosphate for the chromatographic determination of carotene. L. A. Moore. Ind & Eng Chem Anal ed 14:707-8 S 15 '42

Determination of beta-carotene and neo-beta-carotene with the visual spectrophotometer. F. P. Zscheile and B. W. Beadle. Ind & Eng Chem Anal ed 14:633-4 Ag 15 '42

CAROTENE—Analysis—*Continued*

Determination of carotene and cryptoxanthin in yellow corn. G. S. Fraps and A. R. Kemmerer. bibliog Ind & Eng Chem Anal ed 13: 806-9 N 15 '41

Modification of Moon's method for the estimation of carotene in silage. W. Bolton and R. H. Common. Soc Chem Ind J 61: 50-1 Mr '42

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

CAROTENOIDS

Carotenoids of telial galls of gymnosporangium juniperi-virginianae Lk. B. L. Smits and W. J. Peterson. bibliog Science 96:210-11 Ag 28 '42

Formation of pro-carotenoids in monkey flowers under some conditions. W. A. Schroeder. bibliog Am Chem Soc J 64:2510-11 O '42

Isolation of a new carotenoid from rat liver. C. Carruthers and F. Urban. Science 96: 279-80 S 18 '42

Isomerizations of polyene acids and carotenoids; preparation of β-eleostearic and β-licanic acids. H. H. Strain. bibliog Am Chem Soc J 63:3448-52 D '41

Occurrence and interconversion of various fucoxanthins. H. H. Strain and W. M. Manning. bibliog Am Chem Soc J 64:1235 My '42

Occurrence of stereoisomeric carotenoids in nature. L. Zechmeister and W. A. Schroeder. Science 94:609-10 D 26 '41

Pro-γ-carotene. L. Zechmeister and W. A. Schroeder. bibliog il Am Chem Soc J 64: 1173-7 My '42

Prolycopene. A. L. LeRosen and L. Zechmeister. bibliog diag Am Chem Soc J 64: 1075-9 My '42

Separation and characterization of carotenoid pigments produced from mineral oil by bacteria. H. F. Haas, L. D. Bushnell and W. J. Peterson. bibliog Science 95: 631-2 Je 19 '42

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14: 391-5 My 15 '42

Studies on the carotenoids; distribution of pure pigments betwen immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

Studies on the carotenoids; spectrophotometric determination of the carotenoids of yellow corn grain. J. W. White, jr., A. M. Brunson and F. P. Zscheile. bibliog Ind & Eng Chem Anal ed 14:798-801 O 15 '42

Vitamin-*A* and the biologically active carotenoids. R. F. Hunter. Chem & Ind 61:89-94 F 21 '42

CAROTHERS, Wallace Hume, 1896-1937

High polymeric chemistry of fibers made by Carothers. H. Boxser. diags Am Dyestuff Rep 31:373-5+ Ag 3 '42

CARPENTER, Harry Allen, 1878-1942

Sketch. por Chem & Eng N 40:544 Ap 25 '42

CARPENTER steel company

Stocks favored by special circumstances. E. A. Barnes. Mag of Wall St 70:193 My 30 '42

CARPENTERS

Set apprentice standards for carpenter training. Eng N 129:327 S 3 '42

CARPENTERS' square. See Square (instrument)

CARPENTRY

Carpentry; craft problems. H. H. Siegele. 302p $2 Drake '42

Specification standards for government work. H. R. Sleeper. Arch Rec 91:64 F '42

See also

Building

Floors

CARPET beetles

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. il Ind & Eng Chem 34:1401-2 N '42

Rearing fabric pests. F. W. Fletcher and E. E. Kenaga. bibliog Soap & San Chem 18:92-3+ S '42

CARPET factories

Army blankets on carpet looms. J. N. Dow. il Textile World 92:70-2 Je '42

Axminster loom conversion; substitute for duck in military and essential civil uses. H. E. Reed. il Textile World 92:68-9 Je '42

Changing over to war production; Bigelow-Sanford carpet co., Thompsonville, Conn. E. I. Peterson. il Factory Management 100: 101-2+ Ag '42

CARPETS

Crisis in carpets. Business Week p32-3 Ja 31 '42

Rayon staple fiber for carpets improved by research. J. A. Truitt. Rayon 23:612-13 O '42

Rug and carpet industry moves to convert. For Comm W 6:23 Mr 14 '42

Sales force intact and advertising up; Mohawk carpet mills. H. P. Hildreth. Ptr Ink 201:48 N 6 '42

See also

Rugs

CARREL, Alexis, 1873-

Dr Carrel's immortal chicken heart. A. H. Ebeling. il Sci Am 166:22-4 Ja '42

CARRERAS, limited

Annual general meeting, 38th, London. Economist 141:799 D 27 '41

CARRIE, James, d. 1942

One extra tooth; Carrie glass polishing machine. F. W. Preston. por Glass Ind 23: 258-60+ Jl '42

CARRIER corporation

Company's attempt to revise sinking fund provisions of interest to bondholders. Comm & Fin Chr 155:655 F 12 '42

Debenture holders asked to modify sinking fund requirements. Comm & Fin Chr 155: 1010 Mr 9 '42

New distribution system helps Carrier dealers; will merchandise Executone and Dorex. Refrig Eng 44:34 Jl '42

CARRIER current control

Carrier-current relaying and communication on the TVA system. M. S. Merritt and T. DeW. Talmage. il diags Elec Eng 61:561-72 N '42

Electrical developments of 1941; carrier current. G. Bartlett. il Gen Elec R 45:18-19 Ja '42

Multichannel carrier-current facilities for a power line. P. N. Sandstrom and G. E. Foster. il diags Elec Eng 61:Trans 71-6 F '42

Relays and breakers for high-speed single-pole tripping and reclosing. S. L. Goldsborough and A. W. Hill. diags Elec Eng 61:Trans 77-81 F '42

Wired radio controls street light circuits. F. M. Fuller. il diag Elec W 116:1877+ D 13 '41; Abstract. Electronics 15:80+ F '42

CARRIER current telephone. See Telephone, Carrier current

CARRIERS

Carriers on spot; Arnold prepares gigantic antitrust action. Business Week p17 Jl 25 '42

How a carrier becomes common; Commission reveals how to tell contract variety from the public-hire kind. Ry Age 112:347 F 7 '42

Inland waterway carriers. H. Kelso. J Land & Pub Util Econ 18:58-66 F '42

CARRIERS—*Continued*

Transport board holds hearings on federal aid to carriers. Ry Age 113:19-22, 58-60 Jl 4-11 '42

See also

Air lines
Canals
Electric railroads
Freight car service
Gas, Natural—Pipe lines
Interstate commerce
Motor bus lines—Laws and regulations
Motor trucks—Laws and regulations
Motor trucks in freight service
Petroleum pipe lines
Pipe lines as common carriers
Postal service
Public utilities
Railroad law
Railroads
Shipping
Steamboat lines
Street railroads
Transportation
Trolley buses
Waterways

CARRIERS of infection

Studies of the acute diarrheal diseases; carriers of Shigella dysenteriae. J. Watt, A. V. Hardy and T. M. DeCapito. Pub Health Rep 57:524-9 Ap 10 '42

See also

Typhoid carriers

CARROTING. See Felt

CARROTS

Analysis

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14: 391-5 My 15 '42

CARS

Conditioning passenger cars for troop movement. Ry Mech Eng 116:433 O '42

Expediting Southern Pacific car work. il Ry Mech Eng 116:390-4 S '42

Hill pendulum-suspension cars at 90 m.p.h. il Business Week p19 Ap 25 '42

Periodic attention to passenger cars. E. L. Schaffner. Ry Mech Eng 116:228-9 My '42

See also

Car cooling
Car trucks
Car wheels
Cars, Steel
Coal cars
Freight cars
Mine cars
Motor cars (railroad)
Refrigerator cars
Sleeping cars
Street cars
Tank cars

Bearings

Composite railroad bearing conserves copper. E. S. Pearce. diag Metal Prog 42:368-9+ S '42

Conserving strategic metals in car journal bearings. il Ry Age 113:173-5 Ag 1 '42; Same, with diags. Ry Mech Eng 116:374-7 S '42

Curtailment of the use of copper; modified design of journal bearing. V. R. Hawthorne. diags Ry Age 112:264 Ja 24 '42; Same. Ry Mech Eng 116:73-4 F '42

Long-life journal box; National malleable and steel castings company. il Ry Age 113:14 Jl 4 '42; Same. Ry Mech Eng 116:348 Ag '42

Packing retainer spring. il Ry Age 113:8 Jl 4 '42; Same. Ry Mech Eng 116:313 Jl '42

Railway bearing metals; their control and recovery. J. N. Bradley and H. O'Neill. il diag Engineering 154:298-300, 318-20, 339-40 O 9-23 '42; Same cond. Engineer 174:324-6, 347-8 O 16-23 '42; Discussion. Engineering 154:275-6 O 2 '42

Roller-bearing experience on passenger cars; Car department officers' assn. committee report. Ry Mech Eng 116:465-7 N '42

Timken tapered roller bearings speed up railway transportation. W. C. Sanders. il Mach 48:174-9 Ap '42

Decoration

New 400's give unique service; four new streamlined trains, Chicago & North Western. il Ry Age 112:653-4 Mr 28 '42

Pressed Steel delivers coaches to the New York Central; interior features are distinctive color scheme and extensive use of gunmetal mirrors. il plan Ry Age 113: 729-30 N 7 '42; Same. Ry Mech Eng 116: 517-18 D '42

Stainless steel cars for the Empire State express. il plans Ry Age 111:1029-37 D 20 '41

Design

Designing for thin walled sections. E. J. W. Ragsdale. il diags Boston Soc C E J 29: 110-19 Ap '42

Passengers benefit by refinements in car design. il Ry Age 111:854-7 N 22 '41

Smooth rail ride; car using pendulum principle delivered to Santa Fe. il Business Week p52+ N 29 '41

Stable equilibrium for railway cars; designed with stressed skin and with axis of suspension above center of gravity. G. E. Solnar, jr. il diags Civil Eng 11:413-16 Jl '41; Abstract. Engineering 153:407-8, 410 My 22 '42

Stainless steel cars for the Empire State express. il plans Ry Age 111:1029-37 D 20 '41

Three roads place pendulum cars in service. il diag Ry Mech Eng 116:43-8 F '42; Same cond. Ry Age 112:248-52 Ja 24 '42; Excerpts. Mech Eng 64:392-3 My '42

What will the railroads do? il Fortune 26:124-7+ N '42

See also

Cars, Caboose
Freight cars—Design

Equipment

Chesapeake & Ohio coaches. il diags Ry Mech Eng 116:212-16 My '42; Same, without diags. Ry Age 112:854-6+ My 2 '42

Pressed Steel delivers coaches to the New York Central; interior features are distinctive color scheme and extensive use of gunmetal mirrors. il plan Ry Age 113:729-32 N 7 '42; Same. Ry Mech Eng 116:515-18 D '42

See also

Air brakes

Interchange

Interchange and billing for car repairs; Car department officers' assn. committee report. Ry Mech Eng 116:468-9, 495 N '42

Seatrain victor in per diem case; I.C.C. absolves line from paying rentals on cars waiting for boats. Ry Age 111:889-90 N 22 '41

Manufacture

Estimate steel needs for 1942; railroads and car and locomotive builders. Ry Age 112: 262-3 Ja 24 '42

Fabrication by welding in the railroad shop. il Ry Mech Eng 116:262-5 Je '42

Reconstruction

Rebuilding London transport coach from two bomb-damaged coaches. il Engineering 152: 330 O 24 '41

Repair

Can it be welded? locomotive and car parts on which welding of cracks and fractures is not permitted. Ry Mech Eng 116:257 Je '42

Famine is imminent in car repair parts. Ry Age 113:684-5 O 31 '42

Flame hardening in the railroad shop. il Ry Mech Eng 116:268-9 Je '42

Greater equipment capacity secured by increasing availability. N. M. Trapnell and J. B. Blackburn. Ry Mech Eng 116:133-5 Ap '42

Machine gas cutting in the railroad shop. il Ry Mech Eng 116:266-7 Je '42

Questions and answers on welding practices (cont). il diags Ry Mech Eng 116:31-3, 114-15, 227, 260, 317-18, 388-9, 432 Ja, Mr, My-Jl, S-O '42

What do the railroads weld? list of car parts repaired by welding. il Ry Mech Eng 116: 256-7 Je '42

Riding qualities

Better rides from conventional passenger trucks. il diags Ry Age 113:475-8 S 26 '42; Same, with additional diags. Ry Mech Eng 116:407-12 O '42

CARS—*Continued*

Statistics

Passenger cars ordered in 1941. A. J. McGinnis. Ry Age 112:121-3 Ja 3 '42

CARS, Caboose

Combination caboose aids l.c.l. movement. il Ry Age 113:233 Ag 8 '42

Great Northern cabooses. il Ry Mech Eng 116:99-100+ Mr '42

More comfort for the train crews in Clinchfield cabooses. il Ry Age 113:267-8 Ag 15 '42

Temiskaming & Northern Ontario caboose. il Ry Mech Eng 116:418-19 O '42

Trainmen help Union Pacific design its new cabooses. il Ry Age 113:371-2 S 5 '42

CARS, Electric railroad

Can you use this car? offered by railfan group to any electric railway company for the duration. W. L. Hay. il Mass Transportation 38:204-5 Ag '42

Electroliner's control and motor equipment. G. R. Purifoy. il Mass Transportation 37:326-8 N '41

Reconditioning laid-up cars in Boston. Mass Transportation 83:76-7 Mr '42

See also
Street cars

Control

Control system for modern multiple-unit rapid-transit cars. H. G. Moore. il diags Elec Eng 61:Trans 142-7 Mr '42; Same cond. Mass Transportation 38:42-4 F '42

CARS, Freight. See Freight cars

CARS, Inspection

Kalamazoo no. 65 officials' inspection car. il Ry Age 112:552-3 Mr 14 '42

CARS, Steel

Chesapeake & Ohio coaches. il diags Ry Mech Eng 116:212-16 My '42; Same, without diags. Ry Age 112:854-6+ My 2 '42

Pressed Steel delivers coaches to the New York Central; interior features are distinctive color scheme and extensive use of gunmetal mirrors. il plan Ry Age 113:729-32 N 7 '42; Same. Ry Mech Eng 116:515-18 D '42

Stainless steel cars for the Empire State express. il plans Ry Age 111:1029-37 D 20 '41

Steel coaches to East Africa. il Ry Age 113:50-1 Jl 11 '42

Three roads place pendulum cars in service. il diags Ry Mech Eng 116:43-8 F '42; Same cond. Ry Age 112:248-52 Ja 24 '42; Excerpts. Mech Eng 64:392-3 My '42

See also
Freight cars, Steel

Manufacture

Stainless-steel trains for increased passenger traffic. il Mach 48:180-3 Ap '42

CARS, Subway

Micrometer for measuring subway-car wheels. A. M. Thomas. il Mach 48:138 My '42

CARTELS. See Trusts, Industrial—International trusts

CARTILAGE

Phosphorylative glycogenolysis and calcification in cartilage. A. B. Gutman, F. B. Warrick and E. B. Gutman. bibliog Science 95:461-2 My 1 '42

CARTOONISTS

Comics and their creators; life stories of American cartoonists. M. Sheridan. 304p $2.75 Hale, Cushman & Flint, Boston '42

CARTRIDGE brass. See Brass

CARTRIDGE cases

Physical properties of brass cartridge cases. R. S. Pratt. il diags Mech Eng 64:119-22 F '42; Same cond. Steel 111:48-9+ Ag 31 '42

Steel cartridge cases for field artillery. Metal Prog 41:59-60 Ja '42

Manufacture

Artillery cartridge cases made from steel. H. R. Turner. il Iron Age 149:54-5 Mr 19 '42

Automatic spray pickling; combined annealing equipment heat treats, pickles, washes and dries in one continuous operation. il Steel 110:78+ My 25 '42

Brass cartridge cases drawn with cemented carbide dies. F. J. Oliver. il diag Iron Age 150:41-8 Jl 2 '42

Cold forging process facilitates change to steel cartridge cases. Steel 111:43+ O 12 '42

Hardening of cartridge dies and punches. R. B. Seger. il diags Metals & Alloys 15:776-8 My '42

Industrial heating; annealing furnaces in cartridge-case production. il Elec R (Lond) 130:583-7 My 8 '42

Interprocess cleaning of cartridge and shell cases employs drawing lubricants which emulsify or are soluble in water. G. R. Hersam. il diags Steel 110:86+ Je 15 '42

Metal cleaning and ordnance production. R. W. Mitchell. Steel 109:56 D 29 '41

Positive stripper for shells. R. I. Miner. diags Am Mach 86:1250 O 29 '42

Removing stains on cartridge cases. J. J. Healy, jr. Metals & Alloys 15:460 Mr '42

Small arms ammunition manufacture; Lake City ordnance plant. J. B. Nealey. il Iron Age 149:29-34 Ja 8 '42

Standard drawing dies (carbide) for small ammunition. E. Glen. il diags Metal Prog 42:229-32 Ag '42; Same. Mach 49:172-4 S '42; Same. Steel 111:78+ N 2 '42

Testing

Mercury cracking test, procedure and control. H. Rosenthal and A. L. Jamieson. il Am Soc T M Proc 41:897-904; Discussion. 927-30 '41

Season cracking test for cartridge brass; saving mercury. H. Gisser. Metals & Alloys 16:238-40 Ag '42

CARTRIDGE links

Cartridge links for machine guns and automatic rifles. F. C. Duston. il diags plan Mach 49:123-38 O '42

Cleaning and burring cartridge belt links. il Iron Age 150:47 S 10 '42

CARTRIDGES

Ammunition for modern small arms. A. F. Macconochie. diags Steel 109:65-8 D 1 '41

Speedway for cartridge cartoning. C. A. Claus. il Mod Packaging 16:85+ O '42

CARTRIDGES, Dynamite

Spiralok, a new shell for seismic shooting. J. C. McAfee. il Explosives Eng 20:105-7 Ap '42

CARVING (meat, etc.)

How to carve meat, game and poultry. M. O. Cullen. 209p $2 McGraw-Hill '41

CARVOPINONE

Reactions of β-pinene; with selenium dioxide in various solvents. W. D. Stallcup and J. E. Hawkins. bibliog Am Chem Soc J 63:3339-41 D '41

CARYOPHYLLENE

Constituents of the volatile oil of catnip; the neutral components; nepetalic anhydride. S. M. McElvain, P. M. Walters and R. D. Bright. Am Chem Soc J 64:1828-31 Ag '42

CASE hardening

Advances in fast surface hardening; gas-air flame hardening. F. O. Hess. il diags Metal Prog 42:399-403 S '42

Aircraft armor made faster, tougher; Breeze process. il Aviation 41:120-2 S '42

Carburized armor plate for aircraft; liquid carburizing and press quenching; Breeze corp. il Iron Age 148:56-8 N 13 '41

Case depth required for accurate hardness readings. Metal Prog 42:233 Ag '42

Conserving alloy steels by flame hardening. il Iron Age 150:48 Jl 16 '42

Cyanide determination in casehardening salts. C. W. Studer. Mach 48:150-1 D '41

Drills for hardened steel solve an aircraft production problem. F. G. Gepfert. il Mach 48:215-18 Jl '42

Durability of gears. H. D. Mansion. Engineer 173:522-4 Je 19 '42

CASE hardening—*Continued*

Economics of metal use; low carbon alloy steels for casehardening. F. E. McCleary. Metal Prog 40:881-3 D '41

Fatigue comparison of 7-in. diameter solid and tubular axles. O. J. Horger and T. V. Buckwalter. il Am Soc T M Proc 41:682-93; Discussion. 694-5 '41

Fatigue strength of crankshafts. diags Engineering 154:79-80 Jl 24 '42

Flame hardening cylindrical surfaces. S. Smith. il diags Steel 111:76, 82+ Jl 20; 92, 95+ Ag 3 '42; Same. Welding J 21:443-8 Jl '42

Flame hardening in the railroad shop. il Ry Mech Eng 116:268-9 Je '42

Flame hardening with city gas. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:871-4, 947-9, 1012-14, 1088-90 Ag 20-O 1 '42

Hardenability of steel. A. E. Focke. bibliog diags Iron Age 150:43-51 Ag 27; 56-9 S 3 '42

Heat treating in salt baths; abstract. R. C. Stewart. Metals & Alloys 16:316+ Ag '42

Hot work; heat-treating and carburizing operations require trained men and protective equipment. J. H. Heath. il Nat Safety N 45:20-1+ Ja '42

Microstructural characteristics of high purity alloys of iron and carbon. T. G. Digges. bibliog il Am Soc for Metals Trans 30:287-311; Discussion. 311-12 Je '42

National emergency gear steels; use of the Amola or 4000 series steels. E. F. Davis. il diags Iron Age 150:58-64 Ag 13 '42

Nicarb process of case hardening; abstract. J. F. Wyzalek and M. H. Folkner. Metals & Alloys 15:656 Ap '42

Oxyacetylene flame hardening (cont). J. G. Magrath. il diags Am Mach 85:1260-3, 1317-19; 86:8-11, 54-7, 107-9, 178-80, 217-19 D 10 '41-Ja 8, F 5-Mr 19 '42; Abstract. Metals & Alloys 15:656+, 854+ Ap-My '42

Physical properties of NE carburizing steels. A. S. Jameson. Iron Age 150:58-64 S 17 '42

Practical application of flame hardening. A. L. Hartley. il diags Mech Eng 64:531-40 Jl '42

Properties and structures of case hardened steel affected by cooling practice after carburizing. O. W. McMullan. il Am Soc for Metals Trans 29:913-28; Discussion. 929-36 D '41

Soft roots corrected; making 3-in. spline shafts from S.A.E. 1045. L. F. Train. Metal Prog 42:377 S '42

Surface hardening; ni-carbing cycles and equipment employed at General Motors. R. Trautschold. il Steel 111:64-5+ O 26 '42

Surface hardening of highly stressed machine parts; abstract. H. Wiegand. Metals & Alloys 14:930 D '41

Use of copper in selective carburizing. M. M. Thompson. bibliog il Metal Finishing 40:579-82 N '42; Abstract. Iron Age 149:64-5 Je 25 '42

Electric hardening

Application of vacuum tube oscillators to inductive and dielectric heating in industry. J. P. Jordan. il diags Elec Eng 61:Trans 831-4 N '42

Heating by high-frequency induction. Electronics 15:142-3 Je '42

How to produce surface hardened steel parts; high-frequency induction heating and quenching; production of crankshafts, pins, sprockets, etc. W. E. Benninghoff. il Gen Elec R 44:609-10 N '41

Induction hardening. il Automobile Eng 32:101-2 Mr '42

Induction hardening saves copper; rocker arm shafts, automobile engines. il Iron Age 149:37 Ja 15 '42

Induction heating. H. B. Osborn, jr. diag Product Eng 13:261 My '42

Induction heating for aircraft production. J. W. Cable. il diag Aviation 41:127-8 Ag '42

Metallurgical control of induction hardening. F. F. Vaughn, V. R. Farlow and E. R. Meyer. il Am Soc for Metals Trans 30:516-38; Discussion. 538-40 Je '42

New uses of induction heating. R. Le Grand. il diags Am Mach 86:1158-61 O 15 '42

Precise heat treating enables carbon steel parts to meet critical machine tool requirements. F. W. Curtis. il diags Steel 111:72-4, 76+ Ag 3 '42

Principles and metallurgy of induction heating. A. F. Macconochie. il diags Steel 110:102, 104+ Ap 13 '42

70,000 tappets hardened daily in one induction heating machine. Mach 48:121 My '42

Sprocket hardening with induction heat. il Elec W 118:1490 O 31 '42

Tractor parts rapidly hardened by induction. E. F. Cone. il Metals & Alloys 14:687-91 N '41

Truly automatic hardening and brazing at high speed. W. E. Benninghoff. Metal Prog 42:600-1 O '42

Gas carburizing

Carburizing steel with town gas. A. S. Fitzpatrick. Gas J (Lond) 236:251+ N 12 '41

Furnace atmospheres; a survey of some recent researches in America. diags Automobile Eng 32:415-18 O '42

Heat treating, 1941 and current trend. L. C. Conradi. il Metals & Alloys 15:54-5 Ja '42

Nitriding process

Handling ammonia for metal treatment. L. H. Brandt. diags Metals & Alloys 16:60-6 Jl '42

Hardened steel; use of synthetic urea; abstract. R. P. Dunn, W. B. F. Mackay and R. L. Dowdell. Sci Am 166:64-5 F '42

Mass production of nitrided tank parts. R. G. Guthrie. il Metal Prog 41:89 Ja '42

Nitriding an aircraft engine part. G. E. Stedman. il Metals & Alloys 16:420-3 S '42

Nitriding tank track pins. il diag Iron Age 148:66 D 18 '41

Surface hardening of stainless steels. E. A. Malcolm. il diag Aero Digest 40:172, 174, 177+ F '42

Tank track pins are nitrided by mass production methods. R. G. Guthrie. il Steel 110:79 F 2 '42

Urea process for nitriding steels. R. P. Dunn, W. B. F. Mackay and R. L. Dowdell. il diags Am Soc for Metals Trans 30:776-91 S '42; Excerpts. Metals & Alloys 15:152+ Ja '42; Discussion. Am Soc for Metals Trans 30:791-2 S '42

Testing

Hardenability testing of low carbon steels. R. C. Frerichs and E. S. Rowland. bibliog Am Soc for Metals Trans 30:225-45; Discussion. 245-8 Mr '42

CASE school of applied science, Cleveland

Gifts permit Case school to extend foundry facilities. Foundry 70:94 Ag '42

CASEIN

Aralac. F. C. Atwood. Am Dyestuff Rep 31:155-8 Mr 30 '42

Aralac, a newcomer in the galaxy of textile fibres. F. C. Atwood. il Chem Ind 49:822-4, 828 D '41

Casein at the bat; product of many uses. Business Week p101-2+ S 12 '42

Casein in new trade agreement with Uruguay. Paper Tr J 115:32 Jl 30 '42

Casein plastics industry in 1941. For Comm W 7:16 Ap 11 '42

Casein production; abstract. A. B. Andersen. Food Ind 14:106-7 Ag '42

Dive bombers from skimmed milk. il For Comm W 8:9+ Ag 15 '42

Electrophoretic evidence for complex formation in casein. L. E. Krejci, R. K. Jennings and L. D. Smith. Franklin Inst J 232:592-6 D '41; Correction. 234:197-201 Ag '42

Fibers from milk; Aralac. il Textile World 91:84 N '41; Business Week p38 N 22 '41; Food Ind 13:47 D '41

Improving casein fibers. A. J. Hall. Textile Col 63:667+ D '41

Most interesting test results on Aralac fibers and fabrics. F. T. Mosedale. il Rayon 23:521-2 S '42

New casein fiber Aralac now an assured success in textile manufacturing. il Rayon 22:652-4 N '41; Excerpt. Am Dyestuff Rep 30:667-8 N 24 '41

CASEIN—*Continued*
Optical configuration of glutamic acid isolated from casein hydrolyzates by six procedures. J. C. Opsahl and L. E. Arnow. bibliog Am Chem Soc J 64:2035-9 S '42
Possible cure for liver cirrhosis. J. Stafford. Science 94:sup 10 D 5 '41
Protein-aldehyde plastics; combination of formaldehyde with acid casein and with rennet casein. D. C. Carpenter and F. E. Lovelace. bibliog il Ind & Eng Chem 34: 759-63 Je '42
Textiles from casein protein fiber. il Mod Plastics 19:38-9+ D '41
Treatment of dietary liver cirrhosis in rats with choline and casein. J. V. Lowry and others. bibliog Pub Health Rep 56:2216-19 N 14 '41

CASEY, Richard Gardiner, 1890-
Portrait. Business Week p39 Mr 28 '42

CASH discount. See Discount, Cash

CASH on delivery system
When to sell on C.O.D. terms. H. R. Gruber. Credit & Fin Management 43:24+ D '41

CASH registers
Plastics competition award to the McCaskey register co. il Mod Plastics 19:70-1 N '41

CASHEW nuts
Indian exports of cashew kernels during the Sept. 1941 quarter. For Comm W 5:27-8 D 13 '41
India's cashew-nut crop. For Comm W 5: 22-3 N 22 '41
India's cashew industry. C. C. Jordan and D. R. Crone. il For Comm W 8:4-7+ Ag 8 '42

CASHEW nutshell oil
Cashew shell oil use restricted by OPM order. Oil Paint & Drug Rep 141:7+ Ja 19 '42

CASINGHEAD gas. See Gas, Natural

CASPARI, Charles Edward, 1875-1942
Sketch. Oil Paint & Drug Rep 141:53 Je 15 '42

CASSAVA
Cassava production in the Netherlands Indies. For Comm W 5:23 N 22 '41
Mandioca production in Brazil. For Comm W 5:22 N 29 '41

CASSITERITE
Recovering slime cassiterite by soap flotation; Pirquitas plant, in Argentina. E. Oberbillig and E. P. Frink. Eng & Min J 142:54-7 D '41
Tin-bearing pegmatites of the Tinton district, Lawrence county, S.D. W. C. Smith and L. R. Page. plan maps U S Geol S Bul 922-T:595-630, pl 90-94; pa $1 Supt. of doc. '41

CAST iron
Alloy cast-irons; Midland motor cylinder co., ltd. il diag Automobile Eng Extra no 31: 383-5+ N 6 '41
American foundrymen's association, annual meeting; abstracts of papers. Foundry 70: 140, 143+ My '42
Automatic malleablizing cycle control. R. Trautschold. il Steel 109:89+ N 24 '41
Bonding high-lead babbitt to cast iron. J. H. Shoemaker. il Power 86:729-30 O '42
Boron, a new vitamin for steel and cast iron. N. F. Tisdale. il Metal Prog 41:330-1 Mr '42
Brake drums. O. Smalley. il Metals & Alloys 15:256-62, 405-11, 595-8 F-Ap '42
British cast irons; composite of abstracts. Metals & Alloys 14:784+ N '41
Bronze welding iron castings. B. H. Higgs. diag Metals & Alloys 15:277 F '42
Burning-on repairs to iron castings. J. Timbrell. diags Iron Age 150:59 S 10 '42
Cast engine parts; Ford motor co., ltd. il Automobile Eng Extra no 31:379-82 N 6 '41
Cast iron borings for steel surface protection. D. L. Ellis and J. F. Oesterle. il Iron Age 150:45-9 Jl 30 '42
Cast-iron; future developments and possibilities in the automobile industries. il Automobile Eng 32:237-42 Je '42
Cause of defects in enamel fired on cast iron at temperatures above 725°C. C. A. Zapffe. il Am Cer Soc J 25:175-80 Ap 1 '42
Creep of malleable iron; abstract. J. J. Kanter and G. Guarnieri. Iron Age 150:62 Jl 9 '42
Development in cast-iron welding rods and electrodes. R. J. Franklin. Welding J 21: 698-9 O '42; Abstract. Iron Age 150:51-2 O 22 '42
Developments in cast metals; abstract. C. H. Lorig. Foundry 69:130-1 D '41
Economical alloying of gray cast iron. R. G. McElwee and T. E. Barlow. il Foundry 70: 54-5+ Je '42; Excerpts. Metals & Alloys 16:730+ O '42
Effect of normal elements and alloy elements on the rate of austenite transformation in cast iron at constant temperature. C. Nagler and W. P. Wood. il diags Am Soc for Metals Trans 30:491-512; Discussion. 512-15 Je '42
Elastic properties of some alloy cast irons. A. I. Krynitsky and C. M. Saeger, jr. bibliog pls J Research Nat Bur Stand 28:73-94 Ja '42
Foundry operations, 1941 and current trend. E. F. Cone. il Metals & Alloys 15:48-50 Ja '42
Gas welding of cast iron. il Iron Age 150:58-62 Ag 6 '42
High strength alloy cast iron; abstract. A. E. M. Smith. Metals & Alloys 16:128 Jl '42
Lighter weight cast-iron mold stool. W. W. Bergmann. il Steel 110:86 Mr 9 '42
Low temperatures used in welding gray iron castings. R. D. Wasserman. il Foundry 70: 127 O '42
Machinability of ferrous castings. E. K. Smith. Mach 48:129-31 F '42
Machinability of steel and malleable-iron castings. E. K. Smith. il Mach 48:131-3 Mr '42
Malleable cast iron; properties, etc. Product Eng 13:37-8 Ja '42
Manufacture of high test cast iron crankshafts. E. M. Currie and R. B. Templeton. il Iron Age 149:42-6 My 21 '42; Excerpts. Metals & Alloys 16:308 Ag '42
Meehanite castings. Product Eng 12:667-9 D '41
Metallography of inclusions in cast irons and pig irons. H. Morrogh. diags Iron & Steel Inst J 143:207-53, pl 38-47 bibliog(59 references, p252-3) no 1 '41; Summary. Iron Age 147:26 Ja 9 '41; Discussion. Iron & Steel Inst J 143:254-86, pl 47A-47B no 1 '41
Method for making a direct determination of combined carbon in cast iron and steel; abstract. J. G. Donaldson. Iron Age 149:61 Ap 30 '42
Modern methods and equipment for malleable iron; abstracts of papers, American foundrymen's association; reported by M. L. Samuels and C. H. Lorig. il Metal Prog 41:802-5 Je '42
Pearlitic malleable irons. Metal Prog 42:534 O '42
Permanent mold iron strong; abstract. R. Schneidewind and E. C. Hoenicke. Iron Age 150:61-2 Jl 9 '42
Present position of the determination of oxide inclusions in pig iron and cast iron. J. G. Pearce. Iron & Steel Inst J 143:366-70 no 1 '41
Problems of changing from aluminum to cast-iron pistons. W. S. James. diags S A E J 50:177-87 My '42
Progress in the structural elements of buildings. T. L. Condron. il diags W Soc E J 47:209-17 O '42
Replacing steel with cast iron; abstract. J. Blakiston. Metals & Alloys 16:522+ S '42
Report on austenitic and martensitic special-duty cast irons. J. G. Pearce. Inst Mech Eng J & Proc 146:Proc 67-71 D '41
Report on austenitic cast irons. J. G. Pearce. bibliog Inst Mech Eng J & Proc 146:Proc 71-8 D '41
Report on martensitic cast irons. J. G. Pearce. bibliog Inst Mech Eng J & Proc 146:Proc 78-80 D '41

CAST iron—*Continued*

Reports from two committees and papers on cast ferrous materials. A.S.T.M. meeting. Foundry 70:144-5 Ag '42

Research and development in cast irons; 20th annual report of the British cast iron research association. Engineer 172:360 N 21 '41; Same abr. Engineering 152:414 N 21 '41

Role of cast iron in ordnance materiel. C. H. Morken. Foundry 70:73+ N '42

Second report of the research committee on high-duty cast irons for general engineering purposes. J. G. Pearce. Inst Mech Eng J & Proc 146:Proc 61-6 D '41; Same cond. Engineering 152:118-20 Ag 8 '41

Supply of alloys for cast iron. H. S. Austin. Metal Prog 40:886-7 D '41

Use cast iron pipe flanges to break forged steel bottleneck. G. W. Hauck. Heating-Piping 14:615-16 O '42

Vanadium in cast iron; abstract. E. Piwowarsky. Iron Age 149:71 Mr 26 '42

See also

Car wheels
Corrosion and anticorrosives
Foundry practice
Iron
Iron founding
Iron metallurgy
Pig iron
Spiegeleisen

Graphitization

American foundrymen's association annual meeting; abstracts of papers. Foundry 70:148, 151, 154 My '42

High-test iron from the cupola; abstract. W. W. Braidwood. Metals & Alloys 16:476+ S '42

Micro and macro structures of gray iron and meehanite. C. R. Austin and M. M. Lipnick. il Iron Age 149:72-4 My 7; 58-61+ My 14 '42

Polishing of cast-iron micro-specimens and the metallography of graphite flakes. H. Morrogh. bibliog Iron & Steel Inst J 143:195-205, pl 28-37 no 1 '41; Same cond. Engineering 151:297-9, pl 23 Ap 11 '41; Discussion. Iron & Steel Inst J 143:254-86, pl 47A-47B no 1 '41

Report of A.S.T.M. subcommittee VII on microstructure of cast iron. Am Soc T M Proc 41:90-5 bibliog(p95) '41

Young's modulus of elasticity and some related properties of graphitic materials. H. A. Schwartz and C. H. Junge. Am Soc T M Proc 41:816-23; Discussion. 824 '41

Specifications

Formulate specifications for grading pearlitic malleable iron. A. L. Boegehold. Foundry 70:149-50 Mr '42

Let's take a look at specifications. diags Foundry 70:132-3+ Ap '42

Specifications for gray cast iron. Foundry 70:143 O '42

Testing

Brake drums; dynamometer tests on grey cast-iron and meehanite. O. Smalley. il Automobile Eng 32:23-7 Ja '42

Fatigue and static load tests of a high-strength cast iron at elevated temperatures. W. L. Collins and J. O. Smith. il diags Am Soc T M Proc 41:797-807; Discussion. 808-10 '41

Internal stresses in cast iron rolls in relation to service conditions. N. Krupnik. Blast F & Steel Pl 30:164-5+, 268-70, 376-7 Ja-Mr '42

Metallurgical study of cast iron for glass molds. W. H. Bruckner and H. Czyzewski. il Am Cer Soc J 25:381-8 S 1 '42; Same cond. Cer Ind 37:34-5 D '41

Strain hardening of gray cast iron. J. S. Peck. il Am Soc T M Proc 41:811-14; Discussion. 815 '41

Study of some of the facts affecting the resistance of cast iron to deflection under load at high temperatures. L. W. Bolton. diag Iron & Steel Inst J 144:89-104, pl 9-14 no 2 '41; Same, without pls. Engineer 172:172-4 S 12 '41; Same cond. Engineering 152:97-100 Ag 1 '41; Abstract. Metal Prog 40:966+ D '41

Young's modulus of elasticity and some related properties of graphitic materials. H. A. Schwartz and C. H. Junge. Am Soc T M Proc 41:816-23; Discussion. 824 '41

CAST stone. See Concrete stone

CAST stone institute

Cast stone group takes up manufacture of substitute precast products. il Concrete 50:19 Jl '42

CASTILLOA elastica

Mexico's rubber; development of castilloa output, now largely dormant in lost groves. Business Week p42 Ap 11 '42

CASTING, Centrifugal

Casting guns centrifugally at Watertown. R. W. Case. il Foundry 70:62-3+ F '42

Does centrifugal casting offer the alternative? K. D. Moslander. il diags Machine Design 14:74-7+ Je '42

Guns cast centrifugally. C. T. Harris, jr. il Am Mach 86:822-3 Ag 6 '42

Producing nonferrous castings centrifugally. H. B. Zuehlke. il diags Foundry 70:68-70, 154-60 O '42

CASTING machines

Film-impact process for casting metals. J. M. Merle. il diags Steel 110:82, 84+ Je 22 '42

CASTINGS

Burning-on repairs to iron castings. J. Timbrell. diags Iron Age 150:59 S 10 '42

Casting properties of foundry products; ferrous and non-ferrous; reference table. H. R. Clauser, comp. Metals & Alloys 15:583 Ap '42

Casting racks speed production; Lynn river works of General electric co. il Iron Age 149:45 F 19 '42

Castings are painted before machining; American type founders inc. il Steel 111:100+ Jl 13 '42

Chuck changed to hold castings concentric. D. I. Krauss. diags Am Mach 86:162 Mr 5 '42

Conservation and substitution in Cr-Ni-Fe alloys; true economy in the use of chromium and nickel. M. A. Hunter. Metal Prog 41:49-51 Ja '42; Discussion. F. B. Foley. 41:361-2 Mr '42

Developments in Ford foundries. A. H. Allen. il Foundry 70:92, 94+ Jl '42

Display castings at the metal show. il Foundry 69:62-3+ D '41

Further alloy conservation needed in heat resistant castings. Metal Prog 41:501-2 Ap '42

Large surface plate with unusual rib design; used for checking outer races of roller bearings. il Mach 48:157 D '41

Molten metal conditions affect casting quality. F. G. Sefing. bibliog il Foundry 70:78-9+ Jl '42

Reclaiming porous castings; two sealing solutions marketed by the Bakelite corp. Iron Age 149:64 Ap 2 '42

Salvage and reclamation of aluminum alloy castings by welding; abstract. A. T. Ruppe and A. J. Juroff. Iron Age 149:60-1 Ap 30 '42

Some typical conversion case histories; redesigning for stampings and castings. W. F. Burchfield. il Metals & Alloys 15:769-70 My '42

Speeding up the seasoning of castings. Mach 49:147 S '42

Strong demand for castings. Steel 110:423-4 Ja 5 '42

Technical progress paces victory march. Steel 110:286+ Ja 5 '42

Utility enamel finishes for light alloy castings. Iron Age 150:49-52 O 29 '42

See also

Cast iron
Foundry practice
Steel castings

Cleaning

Castings cleaning; abstract. H. B. Nye. Foundry 70:104 Je '42

Foundry dust. Safety Eng 83:40 F '42

Handling castings through the cleaning room. J. M. Munroe. il Foundry 70:69+ Jl '42; Same. Steel 111:95+ Jl 13 '42

CASTINGS—Cleaning—*Continued*

Keep them snagging! keeping water out of pneumatic tools used to clean steel castings. C. Blake. il Foundry 70:121+ S '42

Specifications

Let's take a look at specifications. diags Foundry 70:132-3+ Ap '42

Specifications for gray-iron castings for manhole frames and covers, based on A.S.T.M. specification A48-36. diags Am Water Works Assn J 34:1081-5 Jl '42

Testing

Fixtures for checking aircraft engine castings. H. Chase. il Am Mach 86:127-30 F 19 '42

Inspecting sand castings for aircraft. W. Rodgers. il Foundry 70:104-5, 192-3 My '42

Million-volt X-ray equipment speeds war production. il Marine Eng 47:138+ Jl '42

Radium radiography of castings; abstract. L. W. Ball. Metals & Alloys 16:532+ S '42

X-ray examination of castings; Aircraft X-ray laboratories. il Aero Digest 40:209+ My '42

X-ray of aircraft castings, its control and value. B. C. Boulton. J Aeronautical Sci 9:271-83 Je '42; Abstract. Metals & Alloys 16:812+ O '42

CASTNER, Hamilton Young, 1859-1899

Hamilton Young Castner; a forgotten pioneer of the aluminum industry. V. H. Lord. por(bronze tablet, front) J Chem Educ 19: 353-6 Ag '42

CASTOR beans

Brazilian production of castor beans. For Comm W 6:24-5 Mr 21 '42

Brazil's castor-bean industry booming. For Comm W 8:25-6 Ag 29 '42

Exports of castor seed and castor-seed oil through Santos, 1939-1941. For Comm W 7:25 Ap 18 '42

CASTOR oil

Brazil-U.S. sign vegetable oils pact. Oil Paint & Drug Rep 142:5+ Ag 31 '42

Castor oil base hydraulic fluids. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Castor oil now speeds cutting operations. Steel 110:63 Mr 23 '42

Dehydrated castor oil; abstract. J. D. Morgan. Paint Oil & Chem R 103:10 D 4 '41

Dehydrated castor oil; abstract. C. W. A. Mundy. Chem & Met Eng 49:168 Jl '42

Dehydrated castor oil; its history, chemistry, manufacture, and uses. H. C. Worsdall. bibliog il Can Chem & Process Ind 26: 460-3 Ag '42

Dihydroxystearic acid of castor oil; its constitution and structural relationship to the 9 : 10-dihydroxystearic acids, m. p.'s 132° and 95°. G. King. Chem Soc J p387-91 Je '42

Exports of castor seeds and castor-seed oil through Santos, 1939-1941. For Comm W 7:25 Ap 18 '42

Expression of castor oil; abstract. E. C. Koo. Chem & Met Eng 49:158 Ap '42

Industrial uses of chemicals and related materials; dehydrated castor oil. Oil Paint & Drug Rep 142:66 S 21 '42

More castor oil; D. of A. program. il Business Week p60 S 5 '42

Oil versus rust; castor oil as preventive. Nat Safety N 46:76 S '42

Vegetable oils that U.S. needs from American tropics. K. S. Markley. Oil Paint & Drug Rep 142:7+ Ag 10 '42

Analysis

Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

CASUALTY actuarial society

Annual meeting, New York, Nov. 14. East Underw 42:30-1 N 21 '41; Nat Underw 45: 21+ N 20 '41; Weekly Underw 145:1192 N 22 '41

Spring meeting, New York, May 15. East Underw 43:38 My 22 '42; Ins Field (Fire ed) 71:23-4 My 21 '42; Nat Underw 46:19, 30-1 My 21 '42

CASUALTY insurance. See Insurance, Casualty

CATALASE

Crystalline catalase from beef erythrocytes. M. Laskowski and J. B. Sumner. Science 94:615 D 26 '41

Analysis

Simplified apparatus for catalase determination. R. R. Thompson. diag Ind & Eng Chem Anal ed 14:585 Jl 15 '42

CATALIN

How one chemical concern now meets the war emergency; phenol plant of the Catalin corp. J. R. Callaham. flow sheet il Chem & Met Eng 49:76-9 Ag '42

Plastics competition award to Shulton, inc.; cosmetic containers. il Mod Plastics 19: 132-3 N '41

CATALOGING

Catalog for a law library of 15,000 volumes. M. O. Price, comp. 305p $15 School of lib. service, Columbia univ, New York '42

Catalogers' and classifiers' yearbook. number 10 75p pa $1.25 American library assn, 520 N. Michigan av, Chicago '41

Filing the corporate entry for the catalog user. H. E. Shufro. Special Lib 33:53-5 F '42

Index of examples illustrating the A.L.A. catalog rules, second edition. K. E. Schultz, comp. 46p pa 75c Univ. of Toledo lib., Toledo, Ohio '41

List of author headings for British government departments. D. D. Tod. 37p bibliog(p36-7) pa 50c Univ. of Toronto press, Toronto '42

Phonograph records

Code for cataloging phonograph records. 28p pa 60c Catherine V. Nimitz, sec-treas, Music lib. assn, Public lib, Washington, D.C. '42

Special files

Special files in the Technology department of the Carnegie library of Pittsburgh. M. J. Griffin. Special Lib 33:23-4 Ja '42

CATALOGS

Building the Goulds industrial catalog; designed to serve four types of users on 700 items. G. W. Cramer. il Ind Marketing 26: 26-8 D '41

Catalog time. Business Week p50+ Ag 1 '42

How to increase profits from catalog sales; use of small type and light paper and listing more items. A. Constantine, jr. Ptr Ink 198:48-9 F 20 '42

How Westinghouse built a condensed catalog for distributors. J. M. McKibbin. il Ind Marketing 27:22-3+ Jl '42

Link-Belt's modern catalog technique. il Ind Marketing 27:28-9 Mr '42

Mail-order houses make bid for more urban business. il Ptr Ink 200:20, 22+ Jl 31 '42

Mail-order houses step up sales power of catalogs. il Ptr Ink 198:13 Ja 23 '42

New catalog simplifies sales and production problems; Union steel products co. C. D. Davenport. il Ind Marketing 27:17-19 My '42

New chemicals for industry; products introduced during 1940-1942 by the advertisers in Chemical Industries magazine and displayed at the National chemical exposition, Chicago. Chem Ind 51:573-88, 606, 608 O '42

New mail order catalogs. Adv & Sell 35:44 S '42

New technique for catalog design to facilitate buying. il Ind Marketing 27:24-5+ F '42

Thermoid products, 1942. Thermoid co, Trenton, N.J. '42

Thinner catalogs; spring-summer books of Sears and Ward. Business Week p52 Ja 10 '42

X-ray system of illustrating shows equipment features; Gyrex vibrating screen. il Ind Marketing 27:50 My '42

See also

Trade directories

CATALOGS—*Continued*

Advertising

Do you want your catalog to make hay—rain or shine? Butler brothers letter. Sales Management 51:56 O 20 '42

CATALOGS, Card

Presenting a system of filing publications for gas engineers. S. Shire. il Gas Age 89: 25-6+ Je 4 '42

CATALOGS, Union

Union catalogs in the United States. R. B. Downs, ed. 409p bibliog(p395-402) $5 Am. lib. assn, 520 N. Michigan av, Chicago '42

Union index to medical lore; Boston medical catalog and other indexing of Work projects administration. E. Minderman. Special Lib 33:162-3+ My-Je '42

CATALYSIS

Acid-base catalysis. R. P. Bell. 211p $3.50 Oxford '42

Acidic and basic catalysis in urethan formation. D. S. Tarbell, R. C. Mallatt and J. W. Wilson. bibliog Am Chem Soc J 64:2229-30 S '42

Adsorption of nitrogen and the mechanism of ammonia decomposition over iron catalysts. S. Brunauer, K. S. Love and R. G. Keenan. bibliog Am Chem Soc J 64:751-8 Ap '42

Catalysis of the thermal decomposition of acetaldehyde by hydrogen sulfide. W. L. Roth and G. K. Rollefson. Am Chem Soc J 64:1707-11 Jl '42

Catalytic chemistry in World war II; developments centre in petroleum technology. H. S. Taylor. Can Chem & Process Ind 26: 339-40 Je '42; Abstract. Chem Ind 51:243 Ag '42

Catalytic desulfurization by use of the Gray process. A. M. Martin and L. Carlson. diag Oil & Gas J 40:138+ Mr 26 '42

Catalytic effect of water on the aminolysis of ethyl phenylacetate in *n*-butylamine. P. K. Glasoe, L. D. Scott and L. F. Audrieth. Am Chem Soc J 63:2965-7 N '41

Catalytic oxidation of sulfite waste liquor by atmospheric oxygen. I. A. Pearl and H. K. Benson. bibliog Ind & Eng Chem 34: 436-8 Ap '42

Catalytic reactions. H. W. Lohse. bibliog Can Chem & Process Ind 26:301-2+ My '42

Decomposition of carbon monoxide by ferromagnetic metals. F. Olmer. bibliog diag J Phys Chem 46:405-14 Mr '42

Effect of alkali promoter concentration on the decomposition of ammonia over doubly promoted iron catalysts. K. S. Love and S. Brunauer. bibliog Am Chem Soc J 64:745-51 Ap '42

Effect of catalysis upon the oxidation products of hydroxylamine. T. H. James. bibliog Am Chem Soc J 64:731-4 Ap '42

Halogen addition to ethylene derivatives; the mechanism of the halide ion catalyzed addition reaction. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:704-8 Mr '42

Luminol light reactions. A. Steigmann. Chem & Ind 60:889-90 D 20 '41

Mechanism of catalytic action; importance of rapid desorption; abstract. N. I. Pevni. Chem Age (Lond) 45:235 N 1 '41

Methyl methacrylate polymerization; peroxide catalysis and the oxidation of hydroquinine inhibitor. H. N. Alyea, J. J. Gartland, jr. and H. R. Graham, jr. Ind & Eng Chem 34:458-60 Ap '42

Photosynthesis in flashing light. S. Weller and J. Franck. bibliog J Phys Chem 45: 1359-73 D '41

Preparation and properties of some phthiocol inner complexes. B. P. Geyer and G. M. Smith. bibliog Am Chem Soc J 63:3071-5 N '41

Recent advances of catalysis in chemical process industries; basic considerations by N. W. Krase; Recent applications by editorial staff. bibliog il Chem & Met Eng 49:104-10 O '42

Stereochemistry of catalytic hydrogenation. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-2026 S '42

CATALYSTS

Alkali and alkaline earth metals as catalysts in the hydrogenation of organic compounds. F. W. Bergstrom and J. F. Carson. Am Chem Soc J 63:2934-6 N '41

Ammonia synthesis; efficiency of iron catalysts. S. Lachinov. Chem Age (Lond) 46: 304 Je 20 '42

Anhydrous hydrofluoric acid; properties as an alkylation catalyst. Nat Pet N 34 pt 2: R366-8 O 28 '42

Applicability of palladium synthetic high polymer catalysts. L. D. Rampino and F. F. Nord. Am Chem Soc J 63:3268 D '41

Butadiene from butylene; eleven catalysts tested. Chem Age (Lond) 47:282 S 26 '42

Catalysts for peroxide decomposition. M. Bobtelsky and A. E. Simchen. Am Chem Soc J 64:2492-8 O '42

Catalysts for the polymerization of benzyl chloride. O. C. Dermer and E. Hooper. Am Chem Soc J 63:3525-6 D '41

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

Catalytic activity; X-ray patterns of metal catalysts. Chem Age (Lond) 47:37 Jl 11 '42

Catalytic decomposition of ammonia over iron synthetic ammonia catalysts. K. S. Love and P. H. Emmett. bibliog Am Chem Soc J 63:3297-308 D '41

Catalytic dehydrogenation and condensation of aliphatic alcohols. V. I. Komarewsky and J. R. Coley. bibliog Am Chem Soc J 63:700-2, 3269-70 Mr, D '41

Catalytic hydrogenation of heptaldehyde in vapor phase. T. Suen and S. Fan. bibliog Am Chem Soc J 64:1460-2 Je '42

Catalytic polymerization of olefins in the presence of phosphoric acid. A. Farkas and L. Farkas. bibliog diag Ind & Eng Chem 34:716-21 Je '42

Catalytic properties of charcoal; factors influencing the indophenol reaction. C. Schwob and others. Am Chem Soc J 64: 2276-9 O '42

Comparison of metallic chlorides as catalysts for the Friedel-Crafts ketone synthesis. O. C. Dermer and others. bibliog Am Chem Soc J 63:2881-3; 64:464-5 N '41, F '42

Decomposition of certain acetylenic carbinols. A. F. Thompson, jr. and C. Margnetti. bibliog Am Chem Soc J 64:573-6 Mr '42

Decomposition of ozonides with Raney nickel. N. C. Cook and F. C. Whitmore. Am Chem Soc J 63:3540 D '41

Effect of method of preparation upon the activity of coprecipitated copper hydroxide-magnesium hydroxide catalysts. J. W. Holmes and E. H. Taylor. Am Chem Soc J 63:2911-15 N '41

Hydrogenation of alkyl phenyl ketones in the presence of copper alumina catalysts. V. N. Ipatieff and V. Haensel. Am Chem Soc J 64:520-1 Mr '42

In reference to the catalytic reduction of esters using nickel alone as a catalyst. C. L. Palfray. Am Chem Soc J 63:3540-1 D '41

Industrial utilization of selenium and tellurium; selenium as catalyst. G. R. Waitkins, A. E. Bearse and R. Shutt. Ind & Eng Chem 34:906-7 Ag '42

Influence of external factors in catalytic reactions; dehydrogenation of ethyl alcohol with copper catalyst. T. J. Suen, T. P. Chien and P. S. Chu. bibliog Ind & Eng Chem 34:674-6 Je '42

Inhomogeneity in coprecipitated copper hydroxide-magnesium hydroxide catalysts and its effect upon their activity. E. H. Taylor. Am Chem Soc J 63:2906-11 N '41

Iodine reaction and mercury reaction of photographic importance. A. Steigmann. Soc Chem Ind J 61:82-4 My '42

Iron catalysts for ammonia synthesis; secondary importance of physical properties; abstract. N. I. Kobosev. Chem Age (Lond) 45:233 N 1 '41

Isomerizations of polyene acids and carotenoids; preparation of β-eleostearic and β-licanic acids. H. H. Strain. bibliog Am Chem Soc J 63:3448-52 D '41

CATALYSTS—*Continued*

Kinetics of hydrogen consumption, oxygen elimination and liquefaction in coal hydrogenation; nature of the catalytic reactions. H. H. Storch, C. O. Hawk and W. E. O'Neill. bibliog Am Chem Soc J 64:230-6 F '42

Mechanism of the catalytic conversion of para-hydrogen on nickel, platinum and palladium. A. Farkas and L. Farkas. bibliog Am Chem Soc J 64:1594-9 Jl '42

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

Molybdenum catalysts; factors affecting activity; abstract. G. Maslyanski and F. Shenderovich. Chem Age (Lond) 46:296 Je 13 '42

Non-peroxide catalysts for the reaction between sulfur dioxide and olefins. C. S. Marvel, L. F. Audrieth and W. H. Sharkey. Am Chem Soc J 64:1229-30 My '42

Oxidation and reduction of vitamin C. D. B. Hand and E. C. Greisen. bibliog Am Chem Soc J 64:358-61 F '42

Platinized silica gel as a catalyst in gas analysis. K. A. Kobe. bibliog Am Gas Assn Proc 1941:453-4

Platinum at work in 1942. E. M. Wise. Min & Met 23:421-2 Ag '42

Study of the action of an aluminum-aluminum chloride catalyst in Friedel-Crafts reactions; benzoylation. O. Grummitt and E. N. Case. bibliog Am Chem Soc J 64:878-80 Ap '42

Use of amalgamated aluminum as a catalyst in the Friedel and Crafts reaction. L. I. Diuguid. Am Chem Soc J 63:3527-9 D '41

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

See also
Antioxidants
Enzymes
Hormones
Vitamins
Vulcanization—Accelerators

CATARACT (disease). See Eye—Diseases and defects

CATCH basins

Concrete catch basin grates for airport drainage; also precast mullions and manhole fittings. il Rock Prod 45:87+ O '42

Precast concrete catch-basin grates find market in airport runways. diags Concrete 50:14-15 S '42

CATCHUP. See Tomato catsup

CATECHOL

Factors influencing the catecholase activity and inactivation of tyrosinase; the effect of gelatin and of catechol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 63:3368-74 D '41

New method for the measurement of tyrosinase catecholase activity. W. H. Miller and C. R. Dawson. Am Chem Soc J 63:3375-82 D '41

CATECHU

Cutch colors. A. E. Karr. bibliog Textile Col 64:113-16, 219-22 Mr, My '42

Dyeing cotton and jute with cutch. Textile Col 64:361-3 Jl '42

Possible substitutes for cutch from India and Burma. C. D. Mell. Textile Col 64:333-4 Jl '42

Use of cutch in textile printing. K. B. Parekh. Textile Col 63:702 D '41

CATERPILLAR tractor company

Industrial fission; how Caterpillar is reproducing itself to meet new management problem of munitions-making subsidiary. Business Week p30+ Mr 28 '42

Scheduling shipments under priority regulations. W. H. Franklin. N A C A Bul 23:1041-9 Ap 1 '42

Working methods of Caterpillar's new president. E. Whitmore. il Am Business 11:9-11, 42-3 N '41

CATERPILLARS

Poisoning by puss caterpillars; abstract. T. L. Lucas. Science 96:sup9 Jl 17 '42

CATHEDRALS

Monolithic concrete restores deteriorated cathedral; St Joseph's cathedral, Sioux Falls. R. A. Perkins. il Concrete 49:4-5 D '41

See also
Saint John the Divine, Cathedral of

CATHODE ray oscillographs. See Oscillographs, Cathode ray

CATHODE ray tubes

Applications of cathode ray tubes. B. Dudley. bibliog diag Electronics 15:49-52+ O '42

Cathode phase inversion. O. H. Schmitt. diags R Sci Instr 12:548-51 N '41

Cathode-ray fluorescent screens. R Sci Instr 12:557-8 N '41

Characteristics of cathode-ray and television picture tubes. diags Electronics 15:96-7 Ja; 88-90 F; 98+ Mr; 110+ Ap; 94-5 My '42

Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41

Factors governing performance of electron guns in television cathode-ray tubes. R. R. Law. bibliog diags Inst Radio Eng Proc 30:103-5 F '42

Image errors occurring in the deflection of a cathode-ray beam in two crossed deflecting fields; abstract. G. Wendt. Wireless Eng 19:274-5 Je '42

Industrial tube characteristics. diags Electronics 15:60 Je '42

Out-of-step indicator visualizes asynchronism; cathode-ray tubes on 60,000-kva. frequency changer. T. M. Blakeslee. diag Elec W 117:1177-8 Ap 4 '42

Sealing mica to glass or metal to form a vacuum-tight joint. J. S. Donal, jr. il R Sci Instr 13:266-7 Je '42

Time bases. O. S. Puckle. bibliog diags Inst E E J 89 pt 3:100-19; Discussion. 119-22 Je '42

Wave form circuits for cathode ray tubes. H. M. Lewis. diags Electronics 15:44-8+ Jl; 48-53 Ag '42

See also
Oscillographs, Cathode ray

CATHODES

Cathode films in tungstate-containing plating baths. M. L. Nielsen and M. L. Holt. bibliog Electrochem Soc Trans 82 (preprint 11):115-23 O '42

Mercury arc cathode. C. G. Smith. bibliog diags Phys R 62:48-54 Jl 1 '42

See also
Electrodes

CATHODIC protection. See Metal protection; Pipe lines—Protection; Steel—Protection; Water pipes—Protection; Water tanks, Steel—Cathodic protection

CATHODIC protection of aluminum. See Aluminum—Protection

CATNIP oil

Constituents of the volatile oil of catnip; the neutral components; nepetalic anhydride. S. M. McElvain, P. M. Walters and R. D. Bright. Am Chem Soc J 64:1828-31 Ag '42

CATSUP

See also
Tomato catsup

CATTLE fly sprays. See Fly sprays and repellents

CATTLE industry and trade

Boom in beef. Business Week p22+ My 30 '42

Feed lot problem; putting pounds on cattle isn't profitable business. Business Week p27-8 Ag 22 '42

Florida

East-Coast cattle ranching. H. M. Wright. il Sci Am 167:70-2 Ag '42

Florida streamlines beef cattle industry. J. S. Jordan. Barron's 22:5 Mr 2 '42

CAUSEWAYS
Causeway, Michigan; unit prices. Eng N 127:700 N 13 '41

CAUSTIC soda. See Sodium hydroxide

CAVANAUGH, Eleanor
Our new president. Special Lib 33:218 Jl-Ag '42

CAVITATION
Water hammer breakage in glass containers. T. C. Baker. il diags Glass Ind 22:469-74, 485-6 N '41

CEDAR
Buried forests of New Jersey. il Fortune 26:20+ Ag '42
Pentechlorphenol substituted for creosote; Southern California Edison co. devises preservative treatment for western red cedar poles. F. B. Doolittle. il Elec West 89:58-61 O '42

CEILINGS
Ceiling repainting schedules for maximum lighting efficiency. Nat Safety N 45:74-5 Ja '42
Fight for the ceiling; air conditioning engineer, lighting engineer and the acoustical engineer, each must claim part of ceiling for his equipment. K. C. Porter. il Heating-Piping 14:484-5 Ag '42; Discussion. 14:550-1 S '42

CELANESE. See Rayon

CELANESE corporation of America
Annual report. Comm & Fin Chr 155:1118 Mr 16 '42
Listing of additional stocks; merger of Celluloid corp. completed. Comm & Fin Chr 154:1591-2 D 20 '41
New development; Fortisan; new plastic collapsible tube announced. Comm & Fin Chr 156:1414 O 19 '42
$35,000,000 debentures offered. Comm & Fin Chr 156:6, 76 Jl 2-6 '42; Rayon 23:382 Jl '42
Thumbnail stock appraisal. Mag of Wall St 69:260 D 13 '41

CELESTITE
Strontium minerals. C. L. Harness. U S Bur Mines Information Circ 7200:1-17 '42

CELITE
Clarifying efficiency of diatomaceous filter aids. A. B. Cummins. il Ind & Eng Chem 34:403-11 Ap '42

CELLARS
How to build an arched roof underground storage cellar. il diags Am Bld 64:42-3 Jl '42

CELLOBIOSE
Synthesis of cellobiose. W. T. Haskins, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1289-91 Je '42
Synthetic cellobiose made; abstract. W. T. Haskins, R. M. Hann and D. S. Hudson. Rayon 23:366 Je '42

CELLOPHANE
Application of cellophane to car windows to prevent steaming and frosting. Consumers' Research Bul 9:19-20 Ja '42
Cellophane, a new life saver; Bubblfil, replacement for kapok. Barron's 22:5 O 5 '42
Cellophane bags find uses in varied industries. il Sci Am 166:289-90 Je '42
Cellophane packing for frozen eggs saves metal. Refrig Eng 44:100 Ag '42
Containers use cellophane to replace metals. Sci Am 167:220-1 N '42
Continuous cellophane bubble yarn; Bubblfil. il Rayon 23:585 O '42
Latest cellophane restrictions. Mod Packaging 15:35 F '42
Now living under shortages; with text of OPM order on cellophane. Mod Packaging 15:34-5+ D '41
Parts for assembling held in cotton and cellophane bags. Mach 48:157 D '41
Restricts cellophane use. Comm & Fin Chr 154:1135 N 20 '41
Sans cellophane; substitute wrappings. il Mod Packaging 15:48-9+ Je '42
Science gains in the search for materials. diags Mod Packaging 15:39-40 Ag '42
Sorption of water by cellophane. V. L. Simril and S. Smith. Ind & Eng Chem 34:226-30 F '42
Transparent materials uses narrowed by OPM. Oil Paint & Drug Rep 140:5+ N 17 '41
Wrappers tested for moisture loss. G. W. McBride. Food Ind 14:46-7 Ap '42

See also
Dyes and dyeing—
Cellophane

CELLOSOLVE acetate
Industrial uses of chemicals and related materials; ethyleneglycol monoethylether acetate. Oil Paint & Drug Rep 142:44 Ag 24; 56 Ag 31 '42

CELLS
Chemical structure of cytoplasm. R. R. Bensley. bibliog Science 96:389-93 O 30 '42
Living cell; abstract. A. Marshak. Science 95:sup9-10 F 27 '42

See also
Cancer
Chromosomes
Embryology
Plant cells and tissues
Tissues
Unicellular organisms

CELLS, Electric. See Electric batteries; Photoelectric cells; Storage batteries

CELLULOID
Celluloid is versatile aid in composing room. A. R. Tommasini. Inland Ptr 108:40-1 Mr '42

CELLULOSE
Abstracts of papers presented before Division of cellulose chemistry, American chemical society, Buffalo, N.Y. Sept. 10. Am Dyestuff Rep 31:507-8 O 12 '42
Action of light on cellulose; a method for the measurement of the osmotic pressure of colloidal solutions. R. E. Montonna and L. T. Jilk. bibliog diags J Phys Chem 45:1374-81 D '41
Alkaline purification of cellulose. G. Goldfinger and H. Mark. bibliog Paper Tr J 115:27-9 O 15 '42; Excerpts. Paper Ind 24:442 Jl '42
Briggs filter medium; long-fibered cellulose. il Diesel Power 20:754+ S '42
Cellulose and its derivatives as fixed structure liquids; abstract. K. Ueberreiter. Chem & Met Eng 49:203 My '42
Cellulose and lignin research during 1941, in Sweden; abstract. E. Hägglund. Paper Ind 24:448 Jl '42
Cellulose content of cotton and southern woods. W. Wan Chen and F. K. Cameron. Ind & Eng Chem 34:224-5 F '42
Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41
Cereal cellulose, a roughage material suitable for experimental animal diets. E. R. Harding. Science 95:234 F 27 '42
Comparison of the capillary flow and falling sphere methods of determining the viscosity of cellulose in cuprammonium solutions. R. S. Hatch, R. N. Hammond and J. J. McNair. Paper Ind 24:436+ Jl '42
Consumption of cellulose by the rayon industry. Rayon 23:375 Jl '42
Convenient six-tube vapor sorption apparatus; sorption of water vapor by spruce sulfite pulp and cotton linters alpha-cellulose. A. J. Stamm and S. A. Woodruff. bibliog diags Ind & Eng Chem Anal ed 13:836-8 N 15 '41
Depolymerization of cellulose in viscose production; effect of manganese on depolymerization rate. F. E. Bartell and H. Cowling. bibliog Ind & Eng Chem 34:607-12 My '42
Determining the deterioration of cellulose caused by fungi; improvements in methods. G. A. Greathouse, D. E. Klemme and H. D. Barker. bibliog il Ind & Eng Chem Anal ed 14:614-20 Ag 15 '42
Developments in lignin chemistry. H. Erdtman. Chem Age (Lond) 46:231-2, 243-4, 253-4 My 2-16 '42
Electrical stability of mineral-oil-treated dielectrics; influence of refining technique. F. M. Clark and E. L. Raab. bibliog Ind & Eng Chem 34:110-16 Ja '42

CELLULOSE—*Continued*

Factors affecting the mechanical deterioration of cellulose insulation. F. M. Clark. bibliog il Elec Eng 61:Trans 742-9 O '42

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

Hardwood cellulose; abstract. W. Klauditz. Paper Ind 24:448 Jl '42

Hydrolysis and catalytic oxidation of cellulosic materials; hydrolysis of mercerized cottons. R. F. Nickerson. bibliog Ind & Eng Chem 34:85-8 Ja '42

Improvement in the method for dissolving cellulose in cuprammonium solution for fluidity measurements. R. T. Mease. diag J Research Nat Bur Stand 27:551-3 D '41

Introduction to the chemistry of cellulose. J. T. Marsh and F. C. Wood. 2d ed 512p $7.50 Van Nostrand '42

Investigation of the properties of cellulose oxidized by nitrogen dioxide. C. C. Unruh and W. O. Kenyon. bibliog il Am Chem Soc J 64:127-31 Ja '42

New methods for investigating the distribution of ethoxyl groups in a technical ethylcellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:9-15 Ja '42

Oxidation of cellulose by nitrogen dioxide. E. C. Yackel and W. O. Kenyon. bibliog diags Am Chem Soc J 64:121-7 Ja '42

Oxidation of cellulose; the reaction of cellulose with periodic acid. H. A. Rutherford and others. bibliog Am Dyestuff Rep 31: 399-400, 412-15 Ag 17 '42; Same. J Research Nat Bur Stand 29:131-41 Ag '42

O-pentaacetyl-*d*-gluconates of polyhydric alcohols and cellulose. M. L. Wolfrom and P. W. Morgan. Am Chem Soc J 64:2026-8 S '42

Primary gaseous products of carbonisation. K. Bolton and others. Chem Soc J p252-63 Ap '42

Relationship between the method of preparation, the distribution of substitutents and the solubility in water or alkali of methyl and ethyl ethers of cellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:15-19 Ja '42

Research of the Phrix corporation; conversion of cellulosic raw material into high alpha dissolving pulps; abstract. H. Jentgen and others. Paper Ind 24:776 O '42

Review on the structure of cellulose fibers. W. Marquette. bibliog Rayon 23:518-19 S '42

Sorption of water by cellophane. V. L. Simril and S. Smith. Ind & Eng Chem 34:226-30 F '42

Study of various celluloses; abstract. O. Eisenhuth. Paper Ind 24:320 Je '42

Synthetic cellulose; abstract. W. T. Haskins, R. M. Hann, and C. S. Hudson. Science 95:sup10-11 My 15 '42

See also

Cotton
Ethyl cellulose
Holocellulose
Lignin
Mercerizing
Methyl cellulose
Nitrocellulose
Paper
Rayon
Sulfite liquor

Analysis

Cupriethylenediamine as a solvent for cellulose fractionation. F. L. Straus and R. M. Levy. bibliog Paper Tr J 114:33-7 Ap 30 '42; Abstract. Paper Ind 24:762-4 O '42

Monoethanolamine extraction of wood for the determination of cellulose. P. Bloom, E. C. Jahn and L. E. Wise. bibliog Paper Tr J 115:33-40 S 3 '42; Excerpt. Paper Ind 23: 1030-2 Ja '42

Quantitative determination of cellulose in raw cotton fiber; a simple and rapid semimicro method. J. H. Kettering and C. M. Conrad. bibliog Ind & Eng Chem Anal ed 14:432-4 My 15 '42

Testing

Cupri-ethylene diamine disperse viscosity of cellulose. F. L. Straus and R. M. Levy. bibliog diag Paper Tr J 114:31-4 Ja 15 '42

CELLULOSE acetate

Cellulose acetate yarn for wire insulation. D. R. Brobst. il Mod Plastics 19:50+ Mr '42

Dimout; visibility unlimited; blue pigmented cellulose acetate material for dimming out lighted show windows. il Mod Plastics 20: 60 S '42

Distribution of acetyl groups in a technical acetone-soluble cellulose acetate. T. S. Gardner and C. B. Purves. bibliog Am Chem Soc J 64:1539-42 Jl '42

Dyeing of cellulose acetate rayon with dispersed dyes. T. Vickerstaff and E. Waters. bibliog Soc Dyers & Col J 58:116-25 Je '42

Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34:764-70 Je '42

Effect of temperature and solvent type on the intrinsic viscosity of high polymer solutions. T. Alfrey, A. Bartovics and H. Mark. bibliog Am Chem Soc J 64:1557-60 Jl '42

Fractionation of cellulose acetate. A. M. Sookne and others. bibliog Am Dyestuff Rep 31:417-20 Ag 31 '42; Same. J Research Nat Bur Stand 29:123-30 Ag '42

How the coating industry is using the nitroparaffins. C. Bogin. Paint Oil & Chem R 104:9-11+ Ag 27; 9-10, 24-9 S 24 '42

New materials meet an old threat; with specifications for plastic gas masks parts of the Chemical warfare service. il Mod Plastics 19:35-43+ Je '42

Plastic collapsible tubes. il Mod Packaging 16:31-3 N '42

Plastics competition award to Saf-T-Dot marker corp. il Mod Plastics 19:152-3 N '41

Plastics; electrical applications. V. E. Yarsley. Electrician 128:623-4 Je 19 '42

Printing and coloring acetate. il Mod Plastics 19:54 My '42

Protection for production. S. A. Bell. il Mod Plastics 19:43-5+ Mr '42

Shatterproof shields; acetate-coated wire. il Mod Plastics 19:38 Mr '42

Soft, rubber-like plastics; cellulose derivatives compounded with chemical and oil plasticizers. D. R. Wiggam. Mod Plastics 19:50-1 Ag '42; Same. Rubber Age 51:381-2 Ag '42

Swelling of cellulose acetate in aqueous phenol solutions. R. J. B. Marsden and A. R. Urquhart. bibliog il diag Textile Inst J 33:T105-36 Jl '42; Abstract. Textile Col 64: 473-4+ O '42

Wired window protection; clear laminated cellulose acetate sheet with wire mesh reinforcement. il Mod Plastics 19:52+ Jl '42

See also

Lacquer and lacquering
Rayon
Varnish and varnishing

Testing

Creep tests on cellulose acetate. W. N. Findley. il diag Mod Plastics 19:71-3+ Ag '42

Mechanical tests of cellulose acetate. W. N. Findley. il Am Soc T M Proc 41:1231-43; Discussion. 1244-5 '41

CELLULOSE acetate butyrate

Butyrate plastic chosen for utility lantern. il Product Eng 13:315 Je '42

Color coils modify light from fluorescent tubes. il Sci Am 165:336 D '41

Cups for crude rubber; injection-molded cellulose acetate butyrate. il Mod Plastics 20: 61 S '42

Framing the shower door. il Mod Plastics 19:44 Je '42

How the coating industry is using the nitroparaffins. C. Bogin. Paint Oil & Chem R 104:9-11, 26-8 S 10 '42

Inlaying injection-molded parts. il Mod Plastics 19:62 Je '42

Molded ammunition rollers; Curtiss P-40, carrying .50 calibre machine guns. C. Marquardt. il Mod Plastics 19:40-1, 124+ Ag '42

Molding the Thunderer whistle. il diags Mod Plastics 20:43+ S '42

New architectural beauty for floors; Tenite strips for terrazzo floors. il Mod Plastics 19:31-2 D '41

CELLULOSE acetate butyrate—*Continued*

People's pump; stirrup pump. il Mod Plastics 19:38-9+ Jl '42

Plastics competition award to H. S. Cover; Tenite II respirators. il Mod Plastics 19: 142-3 N '41

Plastics competition award to Louise Sanders; plastic trim for hats, gloves, etc. il Mod Plastics 19:156-7 N '41

Plastics competition award to Rosenstein bros; Tenite II. il Mod Plastics 19:92-3 N '41

Transparent pipes for beer. il Mod Plastics 20:52 N '42

Analysis

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

CELLULOSE acetate propionate

Analysis

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

CELLULOSE esters

Advances in plastics during 1941. B. Andersen. bibliog il Mod Plastics 19:88+ Ja '42

Effects of heat, solvents and hydrogen-bonding agents on the crystallinity of cellulose esters. W. O. Baker, C. S. Fuller and N. R. Pape. bibliog Am Chem Soc J 64:776-82, pl 1-2 Ap '42

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42; Same cond. Chem Age (Lond) 47:377-80 O 31 '42

Properties of cellulose esters of acetic, propionic, and butyric acids. C. J. Malm, C. R. Fordyce and H. A. Tanner. Ind & Eng Chem 34:430-5 Ap '42

Analysis

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

CELLULOSE ethers

Advances in plastics during 1941. S. L. Bass and A. E. Young. bibliog il Mod Plastics 19:90+ Ja '42

Cellulose ether and textile applications. J. A. Clark. Am Dyestuff Rep 31:110-14 Mr 2 '42

Determination of alkoxyl groups in cellulose ethers. E. P. Samsel and J. A. McHard. bibliog il diags Ind & Eng Chem Anal ed 14:750-4 S 15 '42

Improving the fastness of cellulose ether finishes. A. J. Hall. Textile Col 64:14 Ja '42

Relationship between the method of preparation, the distribution of substitutents and the solubility in water or alkali of methyl and ethyl ethers of cellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:15-19 Ja '42

Technical notes on the cellulose ethers. H. Peters. Textile Col 64:16-18 Ja '42

See also

Ethyl cellulose

CELLULOSE nitrate. See Nitrocellulose

CELLULOSE wadding. See Wadding

CELLULOSE xanthate

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

CEMENT

Adding inert powders to portland cement; abstract. A. Vian. Chem & Met Eng 49: 207 My '42

Aluminates of calcium; structure of anhydrous and hydrated calcium aluminates correlated with cement disintegration. T. Thorvaldson. Can Chem & Process Ind 26: 172-4 Mr '42

Applying portland cement paint to concrete masonry walls. P. M. Woodworth. il Concrete 50:10-11+ Ap '42; Abstract. Rock Prod 45:86-7 My '42

California experience with the expansion of concrete through reaction between cement and aggregate. T. E. Stanton and others. bibliog il Am Concrete Inst J 13:209-36 Ja '42; Discussion. 13:sup 236^1-236^{39} N '42

Cement as a binder for foundry sand. Metal Prog 41:61 Ja '42

Cement as a fire extinguisher. R. Cross. Science 95:275-6 Mr 13 '42

Cement dispersion and concrete quality. E. W. Scripture, jr. il Eng N 127:804-7 D 4 '41

Cement slurry to fit the job. W. A. Sawdon. il Pet Eng 13:23-6 Ap '42

Cement-treated base course takes hold on Pacific coast. il Concrete 49:8 D '41

Cements for oil and gas wells. L. C. Uren. bibliog Pet Eng 13:23-6 Ag; 51, 53-4+ S '42

Effect of admixtures on portland cement. C. H. Jumper and G. Kalousek. il Rock Prod 45:54-5+ Ap; 28-9 My; 58-9 Je; 64-5 Jl '42

Expansion of concrete due to reaction between andesitic aggregate and cement. H. A. Coombs. Am J Sci 240:288-97, pl 1-2 Ap '42

Forty-fifth annual meeting of A.S.T.M. to discuss vital problems; summaries of concrete and cement reports and papers. Concrete 50:8 Je '42

How high-early-strength cement simplifies winter concreting. Concrete 50:24-5 O '42

Nature of portland cement paints and proposed recommended practice for their application to concrete surfaces; report of ACI committee 616. Am Concrete Inst J 13:485-501 Je '42

Portland cement and the plastic concrete. R. H. Bogue. il J Chem Educ 19:36-42 Ja '42

Pressure-grouting with cement-loam mixture restores settled buildings. il diags Concrete 50:2-3 N '42

Raw materials are the important factor in portland-pozzolan cements. R. E. Davis and others. Concrete (mill sec) 50:146 Mr '42

Silicates of calcium; reactions with water and relationships with portland cement. T. Thorvaldson. il Can Chem & Process Ind 26:197-9 Ap '42; Same. Chem Age (Lond) 46:293-5 Je 13 '42

See also

Concrete
Grouting
Gunite
Mortar

Alumina cement

Effect of admixtures on portland cement. C. H. Jumper and G. Kalousek. il Rock Prod 45:54-5+ Ap; 28-9 My '42

Analysis

Determining sodium and potassium oxides in portland cement. W. C. Hanna, L. N. Bryant and T. A. Hicks. Concrete (mill sec) 50:159-60 Ap '42

Nomograph for computing compound compositions of portland cements. B. Janer. Ind & Eng Chem Anal ed 14:550-1 Jl 15 '42

Proposed revision of tentative methods of chemical analysis of cement. Concrete (mill sec) 50:203-5 Jl '42

Rapid determination of potassium in portland cement. W. L. Honaker. bibliog Concrete (mill sec) 50:153-4 Ap '42

Color

Colouring cement; pigments covered by a British standard. Chem Age (Lond) 46:281 Je 6 '42

Copper oxychloride cement

Hubbellite. il R Sci Instr 13:41-2 Ja '42

Fineness

Determining the surface area by air permeability method. S. L. Meyers. bibliog il diags Rock Prod 44:56-9 D '41

CEMENT—Fineness—*Continued*

Improved hydrometer method for use in fineness determinations. A. Klein. diag Am Soc T M Proc 41:953-66 '41

Long-time volume changes in portland cement bars; effects of fineness and added magnesia. A. H. White and H. S. Kemp. Concrete (mill sec) 50:249-51 O '42

Magnesium oxychloride cement

Magnesium oxychloride sparkproof floors. M. Y. Seaton. il Chem Ind '51:74-7 Jl '42

Manufacture

Ball mills ahead of tube mills; Medusa portland cement co. il Rock Prod 45:34-5+ S '42

Blend cement raw materials to control chemical composition. B. Nordberg. il Rock Prod 45:46-9+ Ja '42

Cement plant for Shasta dam. il Engineer 174:13-14 Jl 3 '42

Cut fuel costs and improve clinker; methods of kiln operation, Alpha portland cement co. B. Nordberg. il diags plans Rock Prod 45:40-3 Mr '42

Evaluating high initial strength; complications in manufacture of portland cement caused by demands for special brands. A. J. Blank. Rock Prod 45:77-8+ Ag '42

High temperatures where needed produce greatest efficiency in burning. Concrete (mill sec) 50:175-7 My '42

How fuel requirements of rotary kilns are reduced. il diags Concrete (mill sec) 50:182-6 Je '42

Lehigh returns to the dry process; Alsen, N.Y. plant. B. Nordberg. il plans Rock Prod 45:32-6 Jl; 35-7+ Ag; 54-5+ O '42

Removing alkalis by heating with admixtures. H. Woods. Rock Prod 45:66-8 F '42

Stepping up finish grinding; Permanente corporation. A. J. Anderson and J. W. Sharp. il Rock Prod 45:38+ Ag '42

Trends in calcination. il Rock Prod 45:53-7+ Ja '42

See also
Cement kilns
Cement plants

Prices

Cement regulations, prices. Rock Prod 45:62+ O '42

Setting

Hardening times for casing cementation. N. Healey and S. L. Pease. Inst Pet J 28:1-10; Discussion. 10-14 Ja '42

Thermal characteristics of high-temperature oil well cements. E. E. Byrd and F. W. Jessen. bibliog il Ind & Eng Chem 34:1142-8 O '42

Standards

How war has affected the portland cement industry. Rock Prod 45:88+ Ag '42

Strength

Thermal characteristics of high-temperature oil well cements. E. E. Byrd and F. W. Jessen. bibliog il Ind & Eng Chem 34:1142-8 O '42

Temperature effects

Thermal characteristics of high-temperature oil well cements. E. E. Byrd and F. W. Jessen. bibliog il Ind & Eng Chem 34:1142-8 O '42

Testing

Committee on cement reports activities to annual meeting of A.S.T.M. Concrete (mill sec) 50:207-8 Jl '42

Determining the surface area by air permeability method. S. L. Meyers. bibliog il diags Rock Prod 44:56-9 D '41

Durability of cements in contact with brines and chemical solutions. H. H. Miller. il Pet Eng 13:50, 52, 54 Ag '42

Effect of admixtures on portland cement. C. H. Jumper and G. Kalousek. il Rock Prod 45:54-5+ Ap; 28-9 My; 58-9 Je; 64-5 Jl '42

Long-time volume changes in portland cement bars. A. H. White and H. S. Kemp. Concrete (mill sec) 50:232-3, 249-51 S-O '42 (to be cont)

Measuring plasticity and workability of cement mortars. P. S. Roller. Concrete 50:35-6 N '42

Relationship of the garnet-hydrogarnet series to the sulfate resistance of portland cements. E. P. Flint and L. S. Wells. bibliog J Research Nat Bur Stand 27:171-80 Ag '41; Same. Concrete (mill sec) 49:253-5; 50:161-2 O '41, Ap '42

Soundness test for portland cement. A. G. Larsson. Rock Prod 45:80 Ag '42

Study of resistance of portland cements to sulfate solutions. G. R. Gause. Concrete (mill sec) 50:145-6 Mr '42

Treated cement concrete resists scaling; use of treated portland cements and blends with natural cement. A. A. Anderson. il Explosives Eng 20:10-14, 26-30 Ja '42

CEMENT, Effect of sulfates on

Durability of cements in contact with brines and chemical solutions. H. H. Miller. il Pet Eng 13:50, 52, 54 Ag '42

Relationship of the garnet-hydrogarnet series to the sulfate resistance of portland cements. E. P. Flint and L. S. Wells. bibliog J Research Nat Bur Stand 27:171-80 Ag '41; Same. Concrete (mill sec) 49:253-5; 50:161-2 O '41, Ap '42

Study of resistance of portland cements to sulfate solutions. G. R. Gause. Concrete (mill sec) 50:145-6 Mr '42

CEMENT clinkers

Collecting rotary cooler dust; Medusa portland cement co. B. Nordberg. il Rock Prod 45:26-7 My '42

System $2CaO.SiO_2$-$K_2O.CaO.SiO_2$, and other phase-equilibrium studies involving potash. W. C. Taylor. bibliog pl J Research Nat Bur Stand 27:311-23 S '41; Excerpts. Concrete (mill sec) 50:109-10 Ja '42

CEMENT dust

Acid bath cleans dirty insulators coated with cement dust. il Elec W 117:1700+ My 16 '42

CEMENT floors. See Floors, Cement

CEMENT handling

Aggregate production for Friant dam; cement pumping and storage. C. T. Douglass. Civil Eng 12:130 Mr '42

Cement shipping problems; packing plant of Universal atlas cement co. P. Patton. flow diags il Rock Prod 45:54-7+ F '42

Cement spreader and road-mix methods speed large surfacing jobs in California. il Eng N 129:366-8 S 10 '42

Conveying in cement packing plants. il diags plan Mech Handling 29:23-5 F '42

CEMENT industry and trade

Business as usual, but more of it. W. Gates. il Mag of Wall St 70:238-9+ Je 13 '42

Cement manufacturing operations in 1941 produce notable records. il Concrete (mill sec) 50:102-3 Ja '42

Changing manufacturing capacity of the cement industry. Concrete (mill sec) 50:187-8 Je '42

Evaluating high initial strength; complications in manufacture of portland cement caused by demands for special brands. A. J. Blank. Rock Prod 45:77-8+ Ag '42

How war has affected the portland cement industry. Rock Prod 45:88+ Ag '42

WPB order on cement slightly modified. Concrete (mill sec) 50:251 O '42

Finance

Investment audit of Lone Star Cement. H. J. Nelson. Barron's 22:13 Ap 6 '42

Statistics

Cement production in first half of year. Concrete (mill sec) 50:254 O '42

Masonry, natural and pozzolan cement produced in United States, 1937-41. Concrete (mill sec) 50:239 S '42

Portland cement statistics for Dec. and 12 months of 1941 and 1940. Comm & Fin Chr 155:486 Ja 29 '42 [cont monthly]

CEMENT industry and trade—Statistics—*Cont.*
Production of special cements in 1941. Concrete (mill sec) 50:268 N '42
Summary of cement production for 1941. Rock Prod 45:53 S '42
Volume of production and shipments in close approach to peak year, 1940 and 1941. Concrete (mill sec) 50:130 F '42
What the cement industry accomplished in 1941. E. V. Balser. Concrete (mill sec) 50:221 Ag '42

China

Portland cement industry in China. Rock Prod 45:72 Ap '42

Great Britain

Associated portland cement manufacturers 43d ordinary general meeting, London. Economist 142:625 My 2 '42
War and post-war production of cement. Concrete (mill sec) 50:104-5 Ja '42

Latin America

Latin America expands its capacity for producing cement. Concrete (mill sec) 49:283 D '41

Mexico

Atoyac plant in Mexico changes hands. il Concrete (mill sec) 50:125 F '42

United States

Cement manufacture limited to three basic types for duration of conflict. Eng N 129:203 Ag 13 '42

Venezuela

Venezuela plans expansion of capacity for producing cement. Concrete (mill sec) 50:267 N '42

CEMENT kilns
Between wars portland cement industry expands, retracts, and is detracted; kilns and coolers. N. C. Rockwood. il Rock Prod 45:51, 54-5 Ag '42
Evaluating high initial strength; complications in manufacture of portland cement caused by demands for special brands. A. J. Blank. Rock Prod 45:77-8+ Ag '42
Hard facing cement kiln thrust roll spindles. il Rock Prod 45:34 Je '42
High temperatures where needed produce greatest efficiency in burning. Concrete (mill sec) 50:175-7 My '42
How fuel requirements of rotary kilns are reduced. il diags Concrete (mill sec) 50:182-6 Je '42
Lehigh returns to the dry process; Alsen, N.Y. plant; waste heat plant produces excess power. B. Nordberg. il Rock Prod 45:34-6 Jl '42
Longest in this hemisphere; rotary cement kiln. R. C. Newhouse. il Rock Prod 45:65-6 Ag '42
Trends in calcination. il Rock Prod 45:53-7+ Ja '42
See also
Cement plants

Control

Automatic burning control in rotary kiln. W. E. Reaser. il diags Concrete (mill sec) 50:118-23+ F '42

Firing

Control of kiln temperatures has reached high degree of perfection. il Concrete (mill sec) 50:198-9+ Jl '42
Cut fuel costs and improve clinker; methods of kiln operation, Alpha portland cement co. B. Nordberg. il diags plans Rock Prod 45:40-3 Mr '42
Direct firing with tube mills; Pennsylvania-Dixie cement corp. B. Nordberg. il diag Rock Prod 44:34-7+ D '41

CEMENT lined pipe
Lining cast-iron pipe in place, Waterbury, Conn. L. H. Seton. il Eng N 129:372-3 S 10 '42

CEMENT plants
Atoyac plant in Mexico changes hands. il Concrete (mill sec) 50:125 F '42
Changing manufacturing capacity of the cement industry. Concrete (mill sec) 50:187-8 Je '42
New cement plant proposed in Arizona. Concrete (mill sec) 50:258 O '42
Sliding scaffolds speed cement plant. il diags Eng N 128:474-7 Mr 26 '42
See also
Cement—Manufacture
Cement kilns

Accidents

June campaign shows rise in accidents and decline in severity. Concrete (mill sec) 50:234 S '42
Prevention of serious injuries is industry's big accident problem. Concrete (mill sec) 50:241-2 S '42

Electric equipment

Recent electric developments applying to cement plant operation. G. Bartlett. il Concrete (mill sec) 50:134-6 Mr '42

Employees

Cement workers' attitude on management. W. Schoenberg. Rock Prod 45:28 Ap '42
Huron portland cement company wins bull's eye flag for record on payroll allotment plan. il Concrete (mill sec) 50:257 O '42
Lehigh spends real money for employe's welfare. il Rock Prod 45:39-40+ F '42

Equipment

Ball-mills continue to play useful part in cement plant operations. il diag Concrete (mill sec) 50:230-1 S '42
Between wars portland cement industry expands, retracts, and is detracted. N. C. Rockwood. il plan map Rock Prod 45:46-9+ Ag '42
Blend cement raw materials to control chemical composition. B. Nordberg. il Rock Prod 45:46-9+ Ja '42
Cement plant for Shasta dam. il Engineer 174:13-14 Jl 3 '42
Cement shipping problems; packing plant of Universal atlas cement co. P. Patton. flow diags il Rock Prod 45:54-7+ F '42
Collecting rotary cooler dust; Medusa portland cement co. B. Nordberg. il Rock Prod 45:26-7 My '42
Controlled feeding improves the products. il Rock Prod 45:98-9 Ja '42
Controlling dust. il Rock Prod 45:69-71 Ja '42
Conveying in cement packing plants. il diags plan Mech Handling 29:23-5 F '42
Cut fuel costs and improve clinker; methods of kiln operation, Alpha portland cement co. B. Nordberg. il diags plans Rock Prod 45:40-3 Mr '42
Direct firing with tube mills; Pennsylvania-Dixie cement corp. B. Nordberg. il diag Rock Prod 44:34-7+ D '41
Increased power and capacity emphasized in crushing and grinding units. il Concrete (mill sec) 50:150-1 Ap '42
Keep your belt-driven machines running. J. R. Hopkins. diags Concrete (mill sec) 50:189-90 Je '42
Lehigh returns to the dry process; Alsen, N.Y. plant. B. Nordberg. il plans Rock Prod 45:32-6 Jl; 35-7+ Ag; 54-5+ O '42
Manufacturers' ideas; equipment for cement and rock products plants. il Rock Prod 45:104-11 Ja '42
Maximum efficiency from modern equipment for collection of dust. il Concrete (mill sec) 50:166-7 My '42
Meeting fine-grinding requirements with the compartment mill. il diags Concrete (mill sec) 50:214-15+ Ag '42
New coal handling system for cement mill. il Rock Prod 45:36 F '42
New machinery increases capacity of Chilean plant. il Concrete (mill sec) 49:280 D '41
Non-flushing feeder for fine materials. il diag Rock Prod 45:24 Ag '42
Save fuel by using slurry filters; Medusa portland cement co. il Rock Prod 45:43-4 Ag '42

CEMENT plants—Equipment—*Continued*

Trends in calcination. il Rock Prod 45:53-7+ Ja '42

See also

Cement kilns

Fuel

How fuel requirements of rotary kilns are reduced. il diags Concrete (mill sec) 50:182-6 Je '42

Operating pulverized coal systems with safety and efficiency. il Concrete (mill sec) 50:262-5+ N '42 (to be cont)

Save fuel by using slurry filters; Medusa portland cement co. il Rock Prod 45:43-4 Ag '42

Maintenance and repair

Operating plant at high capacity. N. C. Rockwood. il Rock Prod 45:70, 74+ Ag '42

Power

Gas-burning Diesels give fuel flexibility; Universal Atlas cement co. il diags plan Power 86:651-4 S '42

Higher circuit capacity, same weight of copper; modern low-reactance cable; Louisville cement co. G. L. Hoddy and T. McDonald. il Elec W 118:1092-3 O 3 '42

Safety measures

Executive's attitude toward safety sets pace for workers. J. J. Porter. Concrete (mill sec) 49:288-9 D '41

How the executive's interest in safety is best demonstrated. J. S. Young. Concrete (mill sec) 49:287+ D '41

Operating pulverized coal systems with safety and efficiency. il Concrete (mill sec) 50:262-5+ N '42

Safety is maintained at cement plants despite the war. Concrete (mill sec) 50:252 O '42

Starting new employees off on the right foot; 19th regional safety meeting held by representatives of the cement industry. Concrete (mill sec) 50:256 O '42

Training new employees to observe rules of safety. Concrete (mill sec) 50:218-20 Ag '42

Types of unsafe acts committed by workers at cement plants. Concrete (mill sec) 50:235 S '42

War brings new problems to the cement industry. R. A. Dittmar. Rock Prod 45:76+ Ag '42

CEMENT research

Progress in the long-time study of cement performance in concrete. F. R. McMillan. il Am Concrete Inst J 13:441-6 Ap '42

Relationship of the garnet-hydrogarnet series to the sulfate resistance of portland cements. E. P. Flint and L. S. Wells. bibliog J Research Nat Bur Stand 27:171-80 Ag '41; Same. Concrete (mill sec) 49:253-5; 50:161-2 O '41, Ap '42

Removing alkalis by heating with admixtures. H. Woods. Rock Prod 45:66-8 F '42

System $2CaO.SiO_2$-$K_2O.CaO.SiO_2$, and other phase-equilibrium studies involving potash. W. C. Taylor. bibliog pl J Research Nat Bur Stand 27:311-23 S '41; Excerpts. Concrete (mill sec) 50:109-10 Ja '42

CEMENT storage

Solving bin problems. A. R. Ellis. Rock Prod 45:81+ Ag '42

CEMENTING

See also

Petroleum—Well cementing

CEMENTITE

Crystal structure of cementite, Fe_3C. H. Lipson and N. J. Petch. bibliog diags Iron & Steel Inst J 142:95-103; Discussion. 104-6 no 2 '40; Correction. 144:309 no 2 '41

CEMENTS

Cementing high speed steel tips. Iron Age 150:50 N 5 '42

Cementing high speed steel tips; Cinch steel cement; illustrations. Iron Age 149:48-51 Je 25 '42

High speed steel tips cemented to low alloy shanks; Cinch steel cement. G. Shuler. il Iron Age 149:35-8 Ap 16 '42

Neoprene cements and solvent compounds. R. D. Earle. il India Rubber W 106:570-1 S '42

Non-metallic materials; chemical, stoneware, porcelain, cements; physical properties, makers. Chem & Met Eng 49:95-6 S '42

Use of gel-type cement to cement casing; abstract. J. T. Reynolds. Oil & Gas J 40:50 Ap 16 '42

Uses and properties of acidproof cements; sulfur, sodium silicate and resin types. J. H. S. Barr. il Chem & Met Eng 49:96-9 O '42

See also

Adhesives
Cement
Glue
Mucilage
Resinous products—Adhesives

CENSORSHIP

Above all liberties. A. Craig. 205p bibliog (p191-5) $2.50 Norton '42

Censor over ads. Business Week p48+ Ja 24 '42

Correspondence in regard to the censorship of scientific journals; letters from J. McKeen Cattell and replies. Science 96:216-21 S 4 '42

Espionage act will be applied to industrial advertising. A. P. Mills. Ind Marketing 27:13-14 Ja '42

How and where to get approval for wartime copy and photographs. A. P. Mills. map Ind Marketing 27:13-14 F '42

Problems created by the discontinuance and alteration of statistical information and other sources. G. Hutton. Special Lib 33:250-5 S '42

Protection of statistical information from enemy use. S. A. Rice. Special Lib 33:243-9 S '42

Science and the censor. Science 96:274-5 S 18 '42

Wartime censorship of press and radio. R. E. Summers, comp. Ref Shelf v 15, no 8:1-297 bibliog(p287-97) '42 ($1.25)

See also

United States—Censorship, Office of
War photographs

Bibliography

Freedom of communication in wartime. H. L. Scanlon, comp. 11p Carnegie endowment '42

CENSUS

Canada

Mechanical brain aids Canadian census takers; Belisle sorter-tabulator for punched cards. R. N. Bryan. il Comp Air M 47:6793-4 Jl '42

United States

Business uses of data by census tracts and blocks. V. D. Reed. Am Statis Assn J 37:238-44 Je '42

Census by sample; Bureau's takeover of rival WPA Surveys section. Business Week p24+ S 12 '42

General principles of tract delimitation. C. E. Batshcelet. Am Statis Assn J 37:245-6 Je '42

1940 census provides much information for use by electric industry; with tabulated data on farms by size of income, by states and by geographic division, 1929-1939. M. Rainey. Edison Elec Inst Bul 10:21-4 Ja '42

Proposed annual sample census of population. P. M. Hauser. Am Statis Assn J 37:81-8 Mr '42

Relative efficiencies of various sampling units in population inquiries. M. H. Hansen and W. N. Hurwitz. Am Statis Assn J 37:89-94 Mr '42

U.S, Senate bill 1627; text and letters from J. C. Capt and W. C. Taylor. Special Lib 33:98-100 Mr '42

Will take 1941 census of manufactures; S.1627 lies dormant. Ind Marketing 27:36+ Ja '42

CENTER LINE, Michigan

See also

Housing—Center Line, Michigan

CENTERING (machine work)

Caliper centers shafts for keyway milling. C. W. Leck. diag Am Mach 86:112 F 19 '42

Center scope tool-positioning device. il Engineering 152:485 D 19 '41

Locating radius center by trigonometry. H. R. Bowman. diag Am Mach 86:512 My 28 '42

Spring center for lathe grinding. F. F. Anderson. diags Am Mach 86:445-6 My 14 '42

Stokerunit centering machine designed for automatic cycles on large size shell. il Am Mach 86:413 Ap 30 '42

CENTRAL AMERICA

Commerce

Importance of exports to Latin American economics; Central and Caribbean America. W. LaVarre. il For Comm W 7:3-5+ Ap 18 '42

CENTRAL and south west utilities company

Merger petition rejected by SEC. Comm & Fin Chr 155:2274 Je 15 '42

CENTRAL Maine power company

SEC approves merger; plan for refinancing also approved. Comm & Fin Chr 156:1687 N 9 '42

To merge with Cumberland county power co. Comm & Fin Chr 155:2363-4 Je 22 '42

CENTRAL of Georgia railway

Henry D. Pollard dies suddenly at age of 69. Ry Age 112:213+ Ja 17 '42

CENTRAL power and light company

To offer $5,900,000 notes. Comm & Fin Chr 155:1504 Ap 13 '42

CENTRAL railroad of New Jersey

Railway tax payment offered under new law rejected by state. Comm & Fin Chr 155:2364 Je 22 '42

CENTRAL states power and light corporation

Notice of and order for hearing on dissolution plan. Comm & Fin Chr 155:360 Ja 24 '42

Offer extended. Comm & Fin Chr 155:596 F 7 '42

SEC extends time for bond purchases. Comm & Fin Chr 156:250 Jl 20 '42

To liquidate subsidiary utility company. Comm & Fin Chr 156:1234 O 5 '42

CENTRAL transit association

Fall meeting, Dayton and Akron. Mass Transportation 37:332-5 N '41

CENTRAL Valley project, California

Aggregate production for Friant dam. C. T. Douglass. flow diag il Civil Eng 12:127-30 Mr '42

Central Valley project. il map Engineer 173:518-21 Je 19 '42

Central Valley rounds into shape. T. L. North. Pub Util 30:478-86, 551-8 O 8-22 '42

Economic implications of the Central Valley project. W. E. Packard. 91p bibliog(p89-90) pa 25c John Randolph Haynes and Dora Haynes foundation, 2324 S. Figueroa st, Los Angeles '42

General features of Friant dam. R. B. Williams. il map Civil Eng 12:81-3 F '42

Land and power administration of the Central Valley project. M. R. Goodall. bibliog map J Land & Pub Util Econ 18:299-311 Ag '42

Roosevelt prod brings action on Central Valley; House restores appropriation. Elec W News ed 118:5 Jl 4 '42

Shasta and Keswick dams. H. W. Young. il maps Comp Air M 47:6774-81 Jl '42

Water, water, everywhere; multiple-purpose Central Valley project. A. R. Boone. il map Sci Am 166:178-9 Ap '42

CENTRAL violeta sugar company, S.A.

Stocks in a strong earnings position for 1942. Mag of Wall St 70:156 My 16 '42

CENTRIFUGAL casting. See Casting, Centrifugal

CENTRIFUGAL pumps. See Pumps, Centrifugal

CENTRIFUGES

Analytical cell for the ultracentrifuge. M. Rosenfeld. il diag R Sci Instr 13:154-7 Ap '42

Centrifuge for blood plasma. il R Sci Instr 13:303 Jl '42

Concentration and purification of tobacco mosaic virus by means of the Sharples super-centrifuge. W. M. Stanley. bibliog Am Chem Soc J 64:1804-6 Ag '42

Consistency control improved; Williams centrifuge. Paper Tr J 113:24 D 25 '41

Continuous centrifuge for sludge dewatering. H. D. Clark. Eng N 128:932 Je 4 '42

Electrophoretic and ultracentrifugal analysis of hay-fever-producing component of ragweed pollen extract. H. A. Abramson, D. H. Moore and H. H. Gettner. bibliog il J Phys Chem 46:192-203 Ja '42

Fractionation of colloidal systems; selection of operating conditions for the super-centrifuge. G. Fancher, S. C. Oliphant and C. R. Houssiere, jr. Ind & Eng Chem Anal ed 14:552-4 Jl 15 '42

Improved type of electrically driven high speed laboratory centrifuge. E. G. Pickels. bibliog il diag R Sci Instr 13:93-100 Mr '42

Joining aluminum plate to tubing; making paddles for centrifuges. H. K. Schmuck. diags Welding J 20:864 D '41

Reporting what's new in equipment. il Chem & Met Eng 48:104-5 N '41

Simple ultracentrifuge with plastic rotor. K. G. Stern. diags Science 95:561-2 My 29 '42

Small-scale centrifuge accessories for use with corrosive materials. G. F. Smith. il Ind & Eng Chem Anal ed 13:824 N 15 '41

Stress analysis and design of high speed angle centrifuges. E. G. Pickels. bibliog diags R Sci Instr 13:101-14 Mr '42

Ultracentrifugal analysis of pepsin-treated serum globulins. M. L. Petermann. bibliog J Phys Chem 46:183-91 Ja '42

Ultracentrifugation of rat plasma phosphatase. E. O. Kraemer and others. Franklin Inst J 232:587-91 D '41

Ultracentrifuge cell. E. G. Pickels. bibliog il diags R Sci Instr 13:426-34 O '42

Ultracentrifuge; practical aspects of the ultracentrifugal analysis of proteins. E. G. Pickels. bibliog il diags Chem R 30:341-55 Je '42

CENTURY indemnity company

Company analysis. Spectator (Property ed) 7:34-5 F 19 '42

CEPHALOPODA, Fossil

Ozarkian and Canadian cephalopods; nautilicones. E. O. Ulrich and others. diags Geol Soc Special Pa no 37:1-157, pl 1-57 bibliog(p87-96) '42

CERAMIC art

Functional design. C. M. Harder. Am Cer Soc Bul 21:174-6 Ag 15 '42

See also
Glassware—Decoration
Pottery—Decoration

Study and teaching

Argument for technology of ceramic design. K. E. Smith and P. E. Cox. Am Cer Soc Bul 21:190-1 S 15 '42

Development of an art program at an NYA resident project. J. M. Smoot. Am Cer Soc Bul 21:76-8 My 15 '42

CERAMIC engineers

Ceramic engineers vital to victory program. J. F. Battley and others. Cer Ind 38:19-24 F '42; Excerpts. Brick & Clay Rec 100:13-14 F '42

CERAMIC industries

Ceramic industry in time of war; abstract. R. Newcomb, jr. Cer Ind 38:32 My '42

Ceramic industry's contribution to war effort. il Cer Ind 38:43-84 Ap '42

Ceramics replace rubber, metals, jewels, in many new products. il Sales Management 51:25-6 S 15 '42

Is this the golden age of ceramics? with list of ceramic substitutes for materials restricted by priorities. Cer Ind 37:19-21 D '41

CERAMIC industries—*Continued*

Needed for civilian war service now; business men with training and experience in ceramics and allied manufacturing. Am Cer Soc Bul 21:160-1 Ag 15 '42

See also

Brick industry and trade
Cement industry and trade
Clay industries
Enamel and enameling
Fire brick
Glass trade
Kilns
Pottery
Refractory materials

Directories

Membership roster of the American ceramic society. Am Cer Soc Bul 21:199-224 O 15 '42

Exhibitions

Success of Chicago and Los Angeles gift shows forecasts a busy season for glass and pottery. il Cer Ind 39:58-60, 62 S '42

Statistics

Consumption of domestic clay by the ceramic industry, 1936-1940. Cer Ind 38:150 Ja '42

Great Britain

British ceramists catching breath; almost impossible to buy ware. Cer Ind 38:44 Mr '42

Ceramic plant problems during wartime told by survey of 1939-41 in England. Cer Ind 38:66 Mr '42

CERAMIC materials

Abrasion-resisting ceramic used in air-blast nozzles; Heanium. Mach 48:158 My '42

Ceramic batches; collection of recipes used to prepare enamels, glasses, pottery bodies and glazes. Cer Ind 38:124-42 Ja '42

Ceramic materials used in manufacture of enamel, glass and pottery products, with details of their properties and functions. Cer Ind 38:36-116 Ja '42

Ceramics and industrial minerals in the war effort. H. G. Fisk. J Chem Educ 19:510-12 N '42

Color standards for opaque ceramic materials. C. Robertson. Am Cer Soc Bul 20:385-6 N '41

Enamel shop operation under present restrictions on materials. H. L. Cook. Cer Ind 38: 54+ Mr '42

Improved ceramic dielectric materials. M. D. Rigterink. bibliog il R Sci Instr 12:527-34 N '41

Improved ceramics; properties. Product Eng 13:349 Je '42

Is this the golden age of ceramics? with list of ceramic substitutes for materials restricted by priorities. Cer Ind 37:19-21 D '41

Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42

Physical properties of high frequency electrical ceramic insulating parts; requirements for Steatite insulating materials. A. Gunzenhauser. il Cer Ind 39:68, 70, 72 N '42

Relation between chemical composition and dielectric properties of ceramic materials with low dielectric losses. M. D. Rigterink, R. O. Grisdale and S. O. Morgan. bibliog Am Cer Soc J 25:439-43 N 1 '42

Report of American ceramic society committee on research for 1941-1942. Am Cer Soc Bul 21:98-9 Je 15 '42

Specifications and tests of ceramic raw materials. Cer Ind 38:117, 119, 120+ Ja '42

Spectrophotometry of ceramic materials. F. H. Emery. bibliog Am Cer Soc Bul 20:381-4 N '41

Steatite and special ceramic materials; their development, application, and manufacture. A. Gunzenhauser. il Cer Ind 37:41-2, 44+ D '41

Study of ceramic materials in the mining schools of the United States. A. F. Greaves-Walker. Am Cer Soc Bul 21:167 Ag 15 '42

Use of ceramics in tube construction; abstract. R. Howard. diags Electronics 14:84+ N '41

See also

Clay
Cyanite
Duraclay
Feldspar
Flint
Kaolin
Nephelite syenite
Pyrophyllite
Refractory materials
Silica
Silicates
Talc

Prices

Prices of ceramic materials, 1939-1941; tabulation. Cer Ind 38:144, 146 Ja '42

Statistics

Consumption of ceramic materials by the pottery, glass and enamel industries, 1936-1940; tabulation. A. F. Matthews. Cer Ind 38:148 Ja '42

CERAMIC patents

Ceramic abstracts. Published in monthly numbers of American ceramic society Ceramic abstracts and Bulletin

CERAMIC research

Clay products research investigations discussed at New York ceramic meeting. Brick & Clay Rec 99:38 D '41

Effects of different kiln gases on the glost firing of ware. J. H. Koenig. bibliog(89 titles) Cer Ind 38:54-6, 58+ Je '42

Expansion, contraction, and strength changes of some clays during firing. R. K. Hursh and M. K. Blanchard. il diags Am Cer Soc J 25:351-4 Ag 1 '42

Fundamental study of clay; casting as a base-exchange phenomenon. A. L. Johnson and F. H. Norton. bibliog diags Am Cer Soc J 25:336-44 Ag 1 '42

Fundamental study of clay; surface area and its effect on exchange capacity of kaolinite. A. L. Johnson and W. G. Lawrence. bibliog Am Cer Soc J 25:344-6 Ag 1 '42

Heat-of-wetting values of unfired and fired clays. C. W. Parmelee and V. D. Fréchette. bibliog Am Cer Soc J 25:108-12 F 15 '42

Immediate need for research in structural clay products industry. D. F. Stevens. Am Cer Soc J (Bul) 21:59-60 Ap 15 '42; Abstract. il Brick & Clay Rec 101:20 Jl '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:4-6 Ja 10 '42

Low-temperature vitreous bodies. C. J. Koenig. bibliog il Am Cer Soc J 25:230-6 My 1 '42

Properties of ware versus thermal history; tests on semivitreous china bodies and ware. J. H. Koenig. il Am Cer Soc J 25: 41-8 Ja 15 '42

Properties of ware versus thermal history; tests on vitreous china bodies and ware. J. H. Koenig. bibliog il Am Cer Soc J 25: 33-40 Ja 15 '42

Report of American ceramic society committee on research for 1941-1942. Am Cer Soc Bul 21:92-101 Je 15 '42

Research problems in an archeological ceramic laboratory. F. R. Matson. Am Cer Soc Bul 20:451-3 D '41

Stress-strain characteristics of plastic clay masses. R. Russell, jr. and C. F. Hanks, jr. bibliog il diag Am Cer Soc J 25:16-28 Ja '42

See also

Glass research

CERAMICS

American ceramic society meeting, Cincinnati, April 19-24; with abstracts of papers. Cer Ind 38:30-4+ My '42

Ceramic batches; collection of recipes used to prepare enamels, glasses, pottery bodies and glazes. Cer Ind 38:124-42 Ja '42

Chemical engineering and ceramics. C. S. Garland. Chem & Ind 61:171-3 Ap 11 '42; Same cond. Chem Age (Lond) 46:177-8 Ap 4 '42

Helping the ceramic industries to assume a greater share in the united aim; substitutes for metals. il Cer Ind 38:45-84 Ap '42

CERAMICS—*Continued*

Zirconium oxide and thorium oxide in ceramics. N. J. Kreidl. Am Cer Soc J 25:129-41 bibliog(p138-41) Mr 1 '42

See also

Abrasives
Brickmaking
Cement
Clay
Clay products
Enamel and enameling
Fire brick
Glass
Glazes
Kilns
Porcelain
Pottery
Refractory materials
Stoneware
Tiles

also American ceramic society

Bibliography

Ceramic abstracts. Published in monthly numbers of American ceramic society Ceramic abstracts and Bulletin

Indexes to Ceramic abstracts, v 20, 1941; comp. by the American ceramic society. Am Cer Soc J 24 (Cer A 20):277-344 D '41

Dictionaries

Ceramic materials used in manufacture of enamel, glass and pottery products, with details of their properties and functions. Cer Ind 38:36-116 Ja '42

History

Background of Dedham pottery. J. M. Robertson. Am Cer Soc Bul 20:411-13 N '41

Standards

Committee on standards report. Am Cer Soc Bul 21:101-5 Je 15 '42

Study and teaching

Ceramics in NYA; a war emergency. A. J. Gitter. il Am Cer Soc Bul 21:235-7 O 15 '42

CERAMISTS

Defense of professional status of ceramists. G. J. Easter. Am Cer Soc J (Bul) 21:9-10 Ja 15 '42

CERATIUM

Treating a bad case of ceratium at Hillsboro, Ill. F. A. Roemelin. Pub Works 73:28 Jl '42; Same cond. Eng N 129:433 S 24 '42

CEREAL chemists, American association of. See American association of cereal chemists

CEREALS, Prepared

All-America package competition; award to Miller cereal mills, inc. il Mod Packaging 15:222-3+ Ap '42

Cheerioats makes national bid to oatmeal eaters. Ptr Ink 198:42 F 20 '42

Earnings in the grain-mill products industries, 1941. F. Jones and B. L. Smith. Monthly Labor R 54:1006-16 Ap '42

CERIUM

Analysis

Ozone as an analytical reagent; determination of vanadium, cerium, and manganese. H. H. Willard and L. L. Merritt, jr. bibliog diag Ind & Eng Chem Anal ed 14:486-9 Je 15 '42

CERIUM chlorides

Magnetic rotation of cerium salts in aqueous solution. W. K. Wilson and others. bibliog Am Chem Soc J 64:412-16 F '42

CERIUM oxide

Rare earths. N. J. Kreidl. bibliog Am Cer Soc J 25:141-3 Mr 1 '42

CERIUM sulfate

Ceric sulfate in the determination of iron using the molybdisilicic (silicomolybdic) acid method. A. C. Titus and C. W. Sill. Ind & Eng Chem Anal ed 14:121 F 15 '42

Determination of copper reduced by sugars; use of ceric sulfate as a volumetric reagent. A. H. Best, A. H. Peterson and H. M. Sell. bibliog Ind & Eng Chem Anal ed 14:145-6 F 15 '42

Determination of hydrazine; a rapid ferricyanide-ceriometric method. C. J. Dernbach and J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:58-60 Ja 15 '42

Oxidation of cerous sulfate at a rotating anode. J. L. Culbertson and C. Rutkowski. Electrochem Soc Trans 81 (preprint 3):27-32 Ap '42

CERRO DE PASCO copper corporation

Another look. Mag of Wall St 71:132 N 14 '42

CERROBEND. See Bismuth alloys

CERROSAFE. See Alloys, Low melting

CERTIFICATION of products. See Products, Certification of

CESIUM

First spark spectrum of caesium (Cs II). M. A. Wheatley and R. A. Sawyer. Phys R 61:591-600 My 1 '42

Hyperfine structure of Cs II. R. A. Boyd and R. A. Sawyer. Phys R 61:601-5 My 1 '42

Investigation of the scattering of positive alkali ions at an angle of 90° in mercury vapor. Sister John Baptist Macelwane. diag Phys R 60:762-5 D 1 '41

Resonance broadening of caesium. C. Gregory. bibliog Phys R 61:465-9 Ap 1 '42

CESIUM iodides

Polyiodides of cesium; molecular formula of cesium tetraiodide. S. S. Hubard. bibliog J Phys Chem 46:227-9 F '42

CESIUM sulfate

Activity coefficients of rubidium and cesium sulfates in aqueous solution at 25°. H. H. Cudd and W. A. Felsing. Am Chem Soc J 64:550-1 Mr '42

CETANE

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

Interaction of slow neutrons with nuclei. H. Carroll. bibliog diags Phys R 60:702-9 N 15 '41

CETANE number

Cetane-number study of Diesel fuels. W. G. Ainsley, H. D. Young and M. L. Hamilton. bibliog diags S A E J 50:160-8; Discussion. G. H. Cloud. 168 Ap '42

Cetane numbers and physical properties of normal alkyl benzenes and other hydrocarbons; evaluation of *n*-alkyl benzenes and certain related hydrocarbons as Diesel fuels. T. Y. Ju, C. E. Wood and F. H. Garner. Inst Pet J 28:159-71 Ag '42

CETENE

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

CETYLPYRIDINIUM bromide

Effect of surface-active agents on electroörganic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46:42-51 Ja '42

CEYLON

Ceylon: British crown colony. C. K. Moser. il maps For Comm W 8:3-7+ Jl 11 '42

Ceylon's economic importance. Economist 142:396 Mr 21 '42

See also

Mines and mineral resources—Ceylon
Sugar industry and trade—Ceylon

CHAETOMIUM globosum

New culture medium for the growth of chaetomium globosum. W. G. Chace and G. S. Urlaub. bibliog il Am Dyestuff Rep 31:331-3 Jl 6 '42

CHAGALL, Marc, 1887-

Twelve artists in U.S. exile. Fortune 24:106 D '41

CHAIN gear

Care of rotary-rig chains pays dividends. Oil & Gas J 40:71 My 7 '42

Chain tensioning devices. diags Product Eng 12:660-1 D '41

Holds surface speed constant; patent assigned to Doran brothers. diag Machine Design 14:148+ Je '42

How to keep chain drives at top efficiency. Textile World 92:86 Ag '42

CHAIN gear—*Continued*

Preventing chain-drive failure. il diags Oil & Gas J 40:167-8 Ap 30 '42

CHAIN stores

A.&P. co-op flops; chain drops plan to market big share of nation's produce through Atlantic commission. Business Week p54+ Mr 21 '42

Chains besieged; in war on private brands. Business Week p54-5 N 15 '41

How much do you know about chain stores? J Retailing 17:122, 128 D '41

Monopoly in retail food distribution. H. M. Foster. J Retailing 17:112-19 D '41

Super-market man sees growing peril for national brands. L. A. Johnson. Ptr Ink 197:15-17 D 5 '41

War comes to the grocery store. R. P. Wolff. il Dun's R 50:15-18+ My '42

War on discounts; independent grocers vs. chains in California. Business Week p85+ D 6 '41

X marks the price; mail-order and chain-store organizations and three-weeks-old price-freezing order. Business Week p71-3 My 23 '42

See also

Five- and ten-cent stores

also Great Atlantic and Pacific tea company; Safeway stores, inc.; Woolworth, F. W., and company, London; Woolworth, F. W., company

Advertising

5 & 10 and what? seek new competitive weapons, including advertising. Business Week p63-5 Je 20 '42

Bibliography

Chain store bibliography as of Jan. 2, 1942. 46p Inst. of distribution, New York '42

Small business bibliography. 49p; Appendix: Chain store reference, 1920-1939. 105p (U.S. 77th Congress 1st sess S. com. print no5) U.S. Lib. of Congress, Legislative reference service, Washington '41

Costs

Long-run behavior of costs in a chain of shoe stores; a statistical analysis. J. Dean and R. W. James. J Business 15:1-54 pt 2 Ap '42

Finance

Expenses and profits of limited price variety chains in 1941. E. A. Burnham. (Bur. of business research bul. 116) 36p pa $1 Harvard univ, Graduate school of business administration, Boston '42

Investment audit of J. C. Penney co. H. J. Nelson. Barron's 22:13 Ag 17 '42

Mail order stores

C.M.O. retail chain. Business Week p45 D 27 '41

Management

5 & 10 and what? seek new competitive weapons, including advertising. Business Week p63-5 Je 20 '42

Inside story on the outside; Tom Boy stores labeling canned fruits and vegetables. R. A. Latimer. il Mod Packaging 15:40-2+ D '41

Public relations

Chain talks back; Safeway leads a new public relations trend. Business Week p53+ Ja 31 '42

Regulation

OPA clarifies retail chain ceiling status. Oil Paint & Drug Rep 142:3+ Jl 20 '42

Securities

Lower 1942 merchandising earnings indicated; position of leading merchandise stocks. Mag of Wall St 70:494-6+ Ag 22 '42

Lower profits likely for most merchandising companies; position of leading stocks. il Mag of Wall St 69:545-8 F 21 '42

Statistics

Chain-store sales for January 1941 and 1942. Ptr Ink 198:59 F 20 '42 [cont monthly]

Chain store sales 1940 and 1941. Comm & Fin Chr 155:346 Ja 22 '42

Chain-store sales, 1940 and 1941. Ptr Ink 198:53 Ja 23 '42

5 & 10 sales show normal seasonal gain, Dec. and 1940 and 1941. Comm & Fin Chr 155:347 Ja 22 '42

Prefers Census bureau statistics. G. M. Lebhar. Ptr Ink 197:32 N 28 '41

Taxation

Block that tax! chains fight Utah levy. Business Week p42+ F 28 '42

Chains state case; Utah tax referendum fight. Business Week p46-7 Ag 8 '42

CHAINS

Care of rotary-rig chains pays dividends. Oil & Gas J 40:71 My 7 '42

See also

Chain gear

Conveying machinery
—Chain conveyors

Manufacture

Baldt anchors and chain for ships to sail the seven seas. E. J. McGuiness. il Mach 49:180-7 N '42

Ship chains made by fire welding and electric welding; S. G. Taylor chain co. il Mach 49:200-4 N '42

CHAIRS, Dentists'. See Dentists' chairs

CHALCONE

α,β-Unsaturated aminoketones; reaction of pyrrolidine and tetrahydroquinoline with bromine derivatives of benzalacetophenone. N. H. Cromwell. Am Chem Soc J 63:2984-6 N '41

CHALK

Chalk and whiting. O. Bowles. bibliog U S Bur Mines Information Circ 7197:1-21 '42; Excerpt. Rock Prod 45:69-70 My '42

CHAMAELIRIUM luteum

Saponin from chamaelirium luteum. C. D. Mell. Textile Col 63:619 N '41

CHAMBER of commerce of the United States

Construction industry conference, Washington. Arch Forum 75:sup4+ D '41

Meeting, 1942, Chicago. Business Week p16-17 My 2 '42

New C. of C.; effects of victory won by Eric A. Johnston and insurgents. Business Week p19-20 Ag 8 '42

Insurance department

Annual meeting, Chicago. East Underw 43:32+ My 1 '42; Nat Underw 46:1+ Ap 30 '42; Nat Underw (Life ed) 46:1+ My 1 '42; Spectator (Property ed) 7:10-11+ My 14 '42

Chamber of commerce activity reviewed. T. F. Cunneen. Weekly Underw 146:30+ Ja 3 '42

Sidelights on recent U.S. Chamber meeting and its insurance angles. A. Von Thaden. East Underw 43:31+ My 15 '42

U.S. Chamber names new insurance manager, Paul L. Hardesty. Weekly Underw 147:120+ Jl 18 '42

U.S. Chamber's new committee. Nat Underw 46:3 Jl 23 '42; Same. Nat Underw (Life ed) 46:1 Jl 24 '42; Same abr. Comm & Fin Chr 156:373 Jl 30 '42

CHAMBERS of commerce, Association of British. See Association of British chambers of commerce

CHAMFERING

Finishing deep internal chamfer. G. A. Cole. diag Am Mach 86:348 Ap 16 '42

CHAMPAGNE

Champagne tradition for christening vessels at launching. Marine Eng 47:142 S '42

CHAMPION paper and fibre company

Another look. Mag of Wall St 70:29+ Ap 18 '42

Sells $11,000,000 bonds privately. Comm & Fin Chr 156:1687 N 9 '42

CHANDLER act. See Bankruptcy

CHANDLER medal
Charles Frederick Chandler medal of Columbia university; awards to R. R. Williams and R. J. Williams. Science 95:245-6 Mr 6 '42

CHANNELS
Channel dimensions for constant flow and variable slope. A. L. Roberts. Eng N 129:42 Jl 2 '42
Development of Mississippi River channel; model-prototype conformity. F. R. Brown. Am Soc C E Proc 68:1366-8 O '42
Effects of channel shape on losses in a canal bend. C. H. Yen and J. W. Howe. il Civil Eng 12:28-9 Ja '42
Entrainment of air in flowing water; open channel flow at high velocities. L. S. Hall. il Am Soc C E Proc 68:1100-40 S '42
Kinetic energy and momentum correction factors for pipes and for open channels of great width. V. L. Streeter. Civil Eng 12:212-13 Ap '42
Profile curves for open-channel flow. D. F. Gunder. diags Am Soc C E Proc 68:535-42 Ap '42; Discussion. 68:1035-6, 1244-6, 1413-23, 1646-8 Je, S-N '42
Testing theoretical losses in open channel flow. J. G. Jobes and J. H. Douma. il Civil Eng 12:613-15 N '42 (to be cont)
Water: flow, friction, measurement and power. diags Water Works & Sewerage 89:sup19-28 Je '42
See also
Canals
Rivers
Stream flow

CHAPELS
Projected construction; types of housing suitable for use in semitropical areas. il diags plan Arch Forum 77:42 Jl '42
See also
Church architecture
Mortuary chapels

CHARACTER
Personality and character building. R. S. McElhinney and H. L. Smith. 345p $2 Light and life press, Winona Lake, Ind. '42
See also
Personality

CHARACTER tests
Honesty test in employment; abstract. W. D. Scott and others. Management R 30:445-6 D '41

CHARCOAL
Catalytic properties of charcoal; factors influencing the indophenol reaction. C. Schwob and others. Am Chem Soc J 64:2276-9 O '42
Study of charcoal gas production with dry air blast; abstract. E. A. Kaye and A. F. Burstall. Engineering 154:255 S 25 '42
Wood charcoal in vehicle gas producers; abstract. E. A. Allcut. Engineering 153:477 Je 12 '42

CHARCOAL, Activated. See Carbon, Activated

CHARCOAL drawing
Photographic charcoal drawing. J. D. Schumacher. il Photo Tech 3:26-7 D '41

CHARCOAL iron
Ammonia brine-cooler tubes of charcoal iron. Power 86:828-9+ N '42
When charcoal iron industry held sway. il Steel 111:80, 83+ Ag 3; 78, 80+ Ag 10 '42

CHARGE accounts (retail trade)
Federal reserve board broadens consumer credit regulation, covers instalment loans. Comm & Fin Chr 155:1780 My 7 '42
Less credit buying. Business Week p57-8 S 26 '42
Open credit curb? Business Week p48 Mr 28 '42
Regulation W as revised effective May 6, 1942: consumer credit. Fed Res Bul 28:410-23 My '42
Retailers serene; new credit rules. Business Week p45-6 My 16 '42

CHARGING machines
Charging machines; patent specification. diags Mech Handling 29:170-1 S '42
Retort charging machines; patent. Gas J (Lond) 238:514 Je 24 '42

CHARITABLE trusts. See Trusts and trustees—Charitable trusts

CHARITIES
President creates War relief control board. Comm & Fin Chr 156:359 Jl 30 '42
Yearbook of philanthropy, 1941-42; presenting information and statistics covering American philanthropy since the year 1920. J. P. Jones, ed. 148p $2.50 Inter-river press, 150 Nassau st, New York '42
See also
Community chests
Community trusts
Poor relief
Public welfare
Social work

CHARLESTON, South Carolina
Mellowed by time; a Charleston notebook. E. O. Verner. 81p $3 Bostick & Thornley, Columbia, S.C. '41

Water supply

Construction of Charleston's Edisto-Goose Creek tunnel. il map Pub Works 72:15-16+ N '41
Edisto river, Goose Creek tunnel aqueduct; tunnel driven thru marl. J. E. Gibson. il diags plan map N E Water Works Assn J 56:102-22 Mr '42

CHARLESTON, South Carolina, museum
First natural history museum in America. G. G. Simpson. bibliog Science 96:261-3 S 18 '42

CHARLESTON, West Virginia

Streets

Kanawha boulevard at Charleston extended. W. Brewster. il diags Eng N 127:789-91 D 4 '41

CHARM (periodical)
Busy, buying business gal. Sales Management 49:74, 76 D 15 '41

CHARTERED insurance institute of Great Britain
How British education is carried on under war conditions. W. P. Elderton. East Underw 43:18 Ag 28 '42

CHARTS (calculating)
Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9:213-19 Ap '42
Bill chart aids in dealer estimating. Elec W 116:1596 N 15 '41
Chart for balancing pipe head losses by the Hardy Cross method. G. M. Slight. Eng N 128:41-2 Ja 1 '42
Chart for determining time to pay out investment. Oil & Gas J 40:69 My 7 '42
Chart for spacing stiffeners. M. J. Marcuson. Eng N 128:207 Ja 29 '42; Correction. 128:502 Mr 26 '42
Chart for the estimation of dirt in pulp and paper. J. H. Graff and E. K. Nihlen. Paper Tr J 114:61-2 My 21 '42
Chart of pipe and casing capacities. L. T. Monson. Oil & Gas J 40:34 Ja 8 '42
Chart simplifies power cost conversions. K. A. Kobe. Chem & Met Eng 49:132 F '42
Charts aid in determining plate thickness. J. Marin. Machine Design 14:66-9 Mr '42
Charts for the determination of the root-mean-square value of the horizontal radiation pattern of two-element broadcast antenna arrays. K. Spangenberg. Inst Radio Eng Proc 30:237-40 My '42
Charts solve multiple-reservoir problem. J. A. Novoro. Eng N 129:300-1 Ag 27 '42
Circumference, area, diameter of drill sizes; data sheet. Machine Design 14:77-8 Mr '42
Composite launching curves. F. Wilson. Marine Eng 47:112-14 F '42
Compressed air pipe friction; chart to determine pressure drop at a given temperature; data sheet. H. Gartmann. Power 86:281 Ap '42
Construction of alinement charts. W. C. Sealey. Power Pl Eng 46:82-4+ S; 73-4 O '42

CHARTS (calculating)—*Continued*

Contents of horizontal cylinders; multiple use chart for vertical and horizontal tanks, pipe lines, etc. J. Tarrant. Water Works & Sewerage 89:282-3 Je '42

Cost analysis of fluorescent vs. incandescent lighting installations. B. F. Greenberg. charts Illum Eng 37:165-70 Mr '42

Deflection chart for steel pipe buses. W. S. Scheering. Elec W 118:1288 O 17 '42

Design chart for phase shifting and amplitude control networks. W. S. Duttera. Electronics 15:53-5 O '42

Design charts for tubes subjected to axial loads and combined stresses. W. C. Clayton. Aviation 41:169-70, 175 Jl '42

Design charts for tubes subjected to bending. W. C. Clayton. Aviation 41:80-2+ Ap '42

Design charts for tubes subjected to torsion. W. C. Clayton. Aviation 41:127, 129, 131 My '42

Design diagrams for square concrete columns eccentrically loaded in two directions. P. Andersen. Am Concrete Inst J 13:149-63 N '41

Determining fuel oil heat losses. W. F. Schaphorst. Pet Eng 13:127 Je '42

Diagram for hydraulic jump. R. L. Irwin. Civil Eng 12:335 Je '42

Diameter or circumference of any circle; chart. Can Min J 63:639 O '42

Dollar value of higher efficiencies. W. F. Schaphorst. chart Paper Ind 24:502 Ag '42; Same. Water Works & Sewerage 89:406 S '42

Efficiency chart for transformers. J. E. Hobson and R. L. Witzke. Elec W 118:640 Ag 22 '42

Equivalent rectangular duct sizes; with chart. W. T. Miller and J. N. Arnold. Heat & Ven 39:54-5 S '42

Essentials of reinforced concrete design; design charts for reinforced concrete beams. O. Albert. Concrete 50:33-7 Ap '42

Estimating charts for 60-cycle line design. G. D. McCann. Elec W 117:643-5 F 21 '42

Geauque air conditioning chart; reference data. R. E. Geauque. Heat & Ven 39:62a-62b F '42

Graphs for transmission lines; reference sheet. B. Salzberg. Electronics 15:47-8 Ja '42

How much will any I-beam hold? chart Can Min J 63:149 Mr '42; Same. Mech Handling 29:97 My '42

How to determine boiler efficiency. W. F. Schaphorst. Am Gas J 156:37-8 My '42

How to determine single-phase secondary drop, copper and ACSR; chart. F. C. Rand. Elec W 118:647 Ag 22 '42

How to figure duct sizes. W. Goodman. Heating-Piping 14:106-10, 172 F-Mr '42

Impedance magnitude and phase shift curves; two-terminal three-element linear networks; reference sheet. V. L. Edutis. Electronics 15:76-8 N '42

Interconversion chart, atomic to weight per cent. R. P. Dunn. Metal Prog 40:898, 900-1 D '41

L-type impedance transforming circuits. P. H. Smith. diags Electronics 15:48-52, 54+ Mr '42

Loading curve for OISC transformers; chart based on temperature data of the U.S. Weather bureau. L. A. Terven. Elec W 118:968 S 19 '42

Model quality control charts. H. Rissik. Engineer 174:64-5, 86-9, 106-8 Jl 24-Ag 7 '42

New chart solves heat transfer calculations for fluids in viscous flow region. D. O. Hubbard and J. V. Roth. Chem & Met Eng 49:100 Ja '42

New method for the determination of equivalent cracking conditions for commercial cracking reactions. S. L. Neppe. bibliog Inst Pet J 28:27-35 F '42

Performance evaluation of fluorescent units. K. Franck. diags Illum Eng 37:217-28 Ap '42

Power, capacity and efficiency of pumps. W. F. Schaphorst. chart Rock Prod 45:30 S '42

Power factor chart. P. M. Van Wingen. Power 86:437 Je '42

Practical alignment chart for fluid flow in pipelines. P. Meyer. Can Chem & Process Ind 26:269-70 My '42

Pressure drop in the flow of compressible fluids. W. E. Lobo, L. Friend and G. T. Skaperdas. Ind & Eng Chem 34:821-3 Jl '42

Procedure blanks and charts simplify spring design jobs. C. Thumim. tables Product Eng 13:662-4 N '42

Proportioning concrete materials by the unit layer method. J. C. Witt. chart Rock Prod 44:73-5 D '41

Quicker way of computing distribution short circuits; combination of charts, template and table. J. D. Sauter and G. F. Lincks. Elec W 117:992-4 Mr 21 '42

Radius of vertical curves in belt conveyor design. diags Mech Handling 28:260-1 D '41

Roots and powers. W. F. Schaphorst. Chem Ind 51:382 S '42

Selecting size and number of bolts in tension; data sheet. J. P. Doolan. Machine Design 14:87-8 F '42

Simplified copper wire calculations; reference sheet. L. Tulauskas. Electronics 15:75-6 O '42

Simplified inductance chart; reference sheets. E. S. Purington. Electronics 15:61-2 S '42

Solving quantities in excavation and fill. B. F. Powell. Eng N 129:558-9 O 22 '42

Steel stack shell thickness; chart. S. Levine. Eng N 128:565 Ap 9 '42

Superheterodyne tracking simplified. P. C. Gardiner. diag chart Electronics 15:74-5 N '42

Suspension bunkers; chart for figuring the relations between capacities, widths, sag, length of curve, etc. Mech Handling 29:5-6 Ja '42

Thermal properties of mixed acids; enthalpy chart. C. McKinley, jr. and G. G. Brown. bibliog il Chem & Met Eng 49:142-4 My '42

Trilinear compounding; use of charts. D. B. Forman. Rubber Age 50:191-4 D '41

Use of ton-mile chart. Oil & Gas J 40:199 Ap 30 '42

Vapor-pressure chart for volatile hydrocarbons. R. V. Smith. bibliog(48 titles) U S Bur Mines Information Circ 7215:1-10 '42

What is the efficiency of that gas plant cooling tower or air cooling device? W. F. Schaphorst. chart Am Gas J 157:38 O '42

See also

Nomography

Profitgraphs

CHASE national bank of New York

Annual report to stockholders. W. W. Aldrich. Comm & Fin Chr 155:337 Ja 22 '42

Chase bank celebrates 65th anniversary. Comm & Fin Chr 156:1065+ S 24 '42

CHATTEL mortgages

Louisiana privileges and chattel mortgage. H. S. Daggett. 826p $10 Louisiana state univ. press, Baton Rouge '42

New type of cover brought to light by Iowa ban; substitute for recording of chattel liens. Nat Underw 45:21+ N 20 '41

CHAULMOOGRYL compounds

Chaulmoogryl quaternary salts. R. Baltzly, W. S. Ide and J. S. Buck. Am Chem Soc J 64:2514-15 O '42

CHECKER brick

Design, construction and operation of open hearth with basic roof. L. B. Lindemuth. diags Iron Age 148:44-9 N 13 '41

Faster heats in regenerative furnaces with improved checker system. Brick & Clay Rec 99:51 D '41

CHECKS

Are post-dated checks necessary? G. E. Rilling. Credit & Fin Management 43:14-15 D '41

Bank finds new check form an improvement. il Burroughs Clearing House 26:9 Jl '42

Care in writing checks. M. Wright. Banking 34:29-30 Ja '42

Checks for servicemen's dependents. il Banking 35:42 O '42

Cutting check costs. Banking 34:51 My '42

CHECKS—*Continued*

Faulty checks boost bank costs; First national bank of Chicago obtains co-operation in preventing repetitions. C. E. Johnson. il Burroughs Clearing House 26:22-4+ Mr '42

How not to write checks. Banking 34:30-1 Mr '42

Know your endorser. il Banking 35:67 N '42

Merchandising imprinted checks; Liberty checks, First national bank of Boston. R. W. Stanley. il Burroughs Clearing House 26:24-6+ Ja '42

Photographs of checks avoid disputes and losses. E. J. D. Doll. il Bankers Mo 58:496-7+ N '41

Simplified check handling learned quickly by new workers. W. O. Johnson. Bankers Mo 59:343-4 Ag '42

Collection

Changes suggested on wires reporting returned items by Mr L. W. Bishop. Bankers Mo 59:410-11 S '42

Dishonored items returned the day after receipt. Bankers Mo 59:250-3+ Je '42

New York clearing house amends rule on check return. Comm & Fin Chr 155:2222 Je 11 '42

Paying and posting delayed in at least two cities. R. T. Fitch, A. A. Doskey and G. J. Ruhlman. il Bankers Mo 59:347-9+ Ag '42

See also
Banks and banking—
Transit operations

Law

Bank's liability to payee. Burroughs Clearing House 26:42 F '42

Banks liable honoring forged checks against customer's account. Comm & Fin Chr 155:352 Ja 22 '42

Fraudulent checks. Banking 34:46 Mr '42

Funds used to pay forged check. C. R. Rosenberg, jr. Burroughs Clearing House 26:41-2 My '42

Honoring a check by telegram. M. L. Hayward. Barron's 22:4 Ap 20 '42

Law for the layman; the special deposit and the special check. M. L. Hayward. Barron's 22:9 F 16 '42

Post-dated check; recent federal court decision. Burroughs Clearing House 26:40 Je '42

Raising trouble and checks. M. L. Hayward. Barron's 22:13 N 9 '42

Signature by unauthorized agent. C. R. Rosenberg, jr. Burroughs Clearing House 26:29+ Ja '42

When the broker arrests the customer; bank error in stating not sufficient funds. Comm & Fin Chr 156:1632 N 5 '42

See also
Receipts (law)

Protection

Our merchants help cash the new flood of payroll checks; insured check plan and educational program at Macon, Georgia. E. S. Lee. il Bankers Mo 58:494-5+ N '41

CHECKS, Fraudulent

Financial paper claims. S. Maurice. East Underw 43:36 F 27 '42

CHEESE

All-America package competition; award to C. B. Thomes. il Mod Packaging 15:142-3 Ap '42

American substitutes for European cheeses. Consumers' Research Bul 9:27 Mr '42

Canada's cheese agreement with Britain. For Comm W 7:22 My 30 '42

Cheese in Brazil. For Comm W 8:25 Jl 11 '42

Cheese without foil or rubber. il Mod Packaging 16:46-9+ O '42

Lad who made Los Angeles America's cottage cheese capital. il Sales Management 49:66+ D 15 '41

See also
Cheese spreads

Analysis

Determination of total and inorganic bromide in foods fumigated with methyl bromide. S. A. Shrader, A. W. Beshgetoor and V. A. Stenger. bibliog Ind & Eng Chem Anal ed 14:1-4 Ja 15 '42

Manufacture

Cheese making; a book for practical cheesemakers, factory patrons, agricultural colleges and dairy schools. J. L. Sammis. 10th ed rev & enl 338p $3 Cheese maker book co, 4225 Wanetah trail, Madison, Wis. '42

How to use waste rind in processed cheese. S. Brickner. Food Ind 14:47 Mr '42

Improved practices aid cheese makers. J. C. Marquardt. il Food Ind 14:49-50 Je '42

New method of preparing cheese; patent. Food Ind 13:97 D '41

Right way to make processed cheese. C. R. Barker. flow sheet il Food Ind 13:53-5+ D '41

Statistics

Cheese imports by varieties, United States, 1930-41; chart. For Comm W 5:23 D 20 '41

CHEESE spreads

Directions for making cheese spreads. C. R. Barker. il diag Food Ind 14:52-5 Je '42

CHELATION

Azo-group as a chelating group; metallic derivatives of arylazo-oximes and of formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p823-6 D '41

CHEMICAL abstracts (periodical)

Chemical abstracts. Chem & Eng N 20:268 F 25 '42; Same abr. Science 95:244 Mr 6 '42

CHEMICAL apparatus

Apparatus for continuous concentration of a solution under reduced pressure. B. L. Davis. diag Ind & Eng Chem Anal ed 14:548 Jl 15 '42

Apparatus for crystallization and filtration at low temperatures. F. W. Quackenbush and H. Steenbock. diags Ind & Eng Chem Anal ed 14:736-7 S 15 '42

Apparatus for microevaporations. L. T. Kurtz. diag Ind & Eng Chem Anal ed 14:191 F 15 '42

Buyers' guide of laboratory equipment and apparatus, 1942 edition. Chem & Ind 60: sup S1-46 D 6 '41

Column for stripping solvents from extracted oils. F. H. Smith. diag Ind & Eng Chem Anal ed 14:255 Mr 15 '42

Constant-level device for hot water baths. B. W. Pocock. bibliog diag Ind & Eng Chem Anal ed 14:811-12 O 15 '42

Continuous calcium carbonate saturation balance indicator. A. A. Hirsch. diag Ind & Eng Chem Anal ed 13:811-12 N 15 '41

Determination of carbon in low-carbon iron and steel; low-pressure combustion method. L. A. Wooten and W. G. Guldner. bibliog diags Ind & Eng Chem Anal ed 14:835-8 O 15 '42

Enclosed laboratory apparatus for effecting repeated crystallizations from solvents. J. D. Piper, N. A. Kerstein and A. G. Fleiger. bibliog diags Ind & Eng Chem Anal ed 14:738-9 S 15 '42

Flask design and high-speed stirring. A. A. Morton, B. Darling and J. Davidson. diags Ind & Eng Chem Anal ed 14:734-6 S 15 '42

Flask for separation of serum from blood. F. E. Holmes and B. Johnson. diags Ind & Eng Chem Anal ed 14:62 Ja 15 '42

Fuzz detector for viewing glass weighing vessels in organic quantitative microanalysis. D. F. Hayman and W. Reiss. diag Ind & Eng Chem Anal ed 14:357 Ap 15 '42

Heating device for microbeakers, flasks, and centrifuge tubes. C. R. Noller. diag Ind & Eng Chem Anal ed 14:834 O 15 '42

Immersion still head for low-pressure distillation of organic mixtures. A. J. Bailey. diag Ind & Eng Chem Anal ed 14:71 Ja 15 '42

Improved methoxyl apparatus. A. J. Bailey. bibliog diag Ind & Eng Chem Anal ed 14:181 F 15 '42

CHEMICAL apparatus—*Continued*

Inexpensive quantitative pump. R. M. Reinecke. diag Science 95:488 My 8 '42

Laboratory water-bath for cooking, mashing, and fermentation studies. H. W. Coles and W. E. Tournay. il Ind & Eng Chem Anal ed 13:840 N 15 '41

Mercury azotometer for determination of organic nitrogen by the micro-Dumas method. R. G. Clarke and W. R. Winans. bibliog diag Ind & Eng Chem Anal ed 14:522-3 Je 15 '42

Methods of light hydrocarbon analysis. J. J. Savelli, W. D. Seyfried and B. M. Filbert. bibliog diags Ind & Eng Chem Anal ed 13:868-79 D 15 '41

Modifications in the Dumas micromethod for nitrogen; automatic apparatus applicable for combustion micromethods. G. L. Royer, A. R. Norton and F. J. Foster. bibliog il Ind & Eng Chem Anal ed 14:79-82 Ja 15 '42

Modified Warburg reaction vessel. J. N. McConnell and T. E. Friedemann. bibliog diag Science 96:45-6 Jl 10 '42

Moisture determination in non-polar compounds. H. Loughnane. diags Electronics 15:98-100 Ag '42

Sample carrier for organic liquids. F. O. Green. diags Ind & Eng Chem Anal ed 13:911 D 15 '41

Sealing quartz windows on pyrex tubes. S. W. Benson. diags R Sci Instr 13:267-9 Je '42

Simplified apparatus for catalase determination. R. R. Thompson. diag Ind & Eng Chem Anal ed 14:585 Jl 15 '42

Simplified electrosmosis apparatus. J. D. Porter. bibliog diags J Chem Educ 19:533-6 N '42

Simplified microhydrogenation apparatus. I. B. Johns and E. J. Seiferle. bibliog diag Ind & Eng Chem Anal ed 13:841-3 N 15 '41

Trap to prevent backflow from suction pumps. A. E. Meyer. diag Ind & Eng Chem Anal ed 14:505 Je 15 '42

Universal apparatus for micro- or semi-micro-determination of carbon and hydrogen. G. Ingram. bibliog diags Soc Chem Ind J 61:112-15 Jl '42

See also

Absorption apparatus
Adsorption apparatus
Balances
Bombs (chemical apparatus)
Burets
Centrifuges
Chemical engineering—Apparatus and supplies
Chemical laboratories—Equipment
Chemical plants—Equipment
Crucibles
Distillation apparatus
Drying apparatus
Electric furnaces, Laboratory
Evaporators
Extraction apparatus
Filters and filtration (technical chemistry)
Gases—Apparatus
Mixers
Nitrometers
Pipets
Shaking apparatus
Stirrers
Stopcocks
Viscosimeters
Volumetric analysis—Apparatus

Patents

See also

Chemical patents

CHEMICAL bonds

Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42

Carbon-carbon bond strengths in ethane, propane, and *n*-butane. E. R. Van Artsdalen. J Chem Phys 10:653 O '42

Carbon-hydrogen bond strengths in methane and ethane. H. G. Andersen, G. B. Kistiakowsky and E. R. Van Artsdalen. J Chem Phys 10:305 My '42

Comments on the mechanisms of covalent-bond fission. W. A. Waters. Chem Soc J p153-7 F '42

Strength of carbon-hydrogen and carbon-carbon bonds. D. P. Stevenson. bibliog diag J Chem Phys 10:291-4 My '42

See also

Double bonds
Molecular association
Valence

CHEMICAL education

American chemical society; progress report no. 6 of the committee on the professional training of chemists. Chem & Eng N 20:839-40 Jl 10 '42; Excerpt. Science 96:420-1 N 6 '42

Committee on the professional training of chemists; progress report. Science 94:509-10 N 28 '41

Education of a chemist; development, deficiencies, and possibilities. T. Thorvaldson. Can Chem & Process Ind 26:368-9 Je '42

Symposium on professional training of chemists or chemical engineers. J. C. Warner and others. J Chem Educ 18:560-80 D '41

Training of the chemist. E. A. Rudge. Chem & Ind 61:5-8 Ja 3 '42

See also

Chemical engineering—Study and teaching
Chemical laboratories
Chemistry—Study and teaching
Chemistry—Tests and scales

CHEMICAL elements

Chemical elements; the fascinating story of their discovery and of the famous scientists who discovered them. I. Nechaev. 223p $2.50 Coward-McCann, 2 W. 45th st, New York '42

Chronological table of the discovery of the chemical elements. Chem Ind 49:532 pt 2 (Buyer's guidebook) O '41

Element 61; brief appearance as a result of experiments by Dr Emilio Segre and Dr Chien Shiung-Wu. Science 95:sup8 Ja 16 '42; Same abr. Sci Am 166:170 Ap '42

Vapor pressures of monatomic vapors. R. W. Ditchburn and J. C. Gilmour. diags Rs Mod Phys 13:310-27 bibliog(p326-7) O '41

See also

Atomic weights
Atoms
Isotopes
also names of elements, e.g. Arsenic; Carbon; Oxygen; Sulfur

CHEMICAL engineering

Adapting processes to defense needs. Chem & Met Eng 48:97-9 N '41

Applied thermodynamics; symposium. J. G. Aston and others. bibliog il diags Ind & Eng Chem 34:514-602 My '42

Chemical engineering and ceramics. C. S. Garland. Chem & Ind 61:171-3 Ap 11 '42; Same cond. Chem Age (Lond) 46:177-8 Ap 4 '42

Chemical engineering aspects of centrifugal fan design. C. V. Herrmann. bibliog diags Am Inst Chem Eng Trans 38:365-76 Ap '42; Same cond. Chem & Met Eng 49:156-8, 217-19 Ag-S '42

Chemical engineering developments in grain distillery. A. Herman, E. M. Stallings and H. F. Willkie. flow diags il Am Inst Chem Eng Trans 38:791-809; Discussion. 809-12 Ag '42

Chemical engineering developments that may mean new industries for Texas. E. P. Schoch and others. il Chem & Met Eng 49:103-4 Je '42

Chemical engineering for production supervision. D. E. Pierce. 232p $2.50 McGraw-Hill '42

Chemical engineering in the laundry industry. F. C. Harwood. Chem Age (Lond) 47:73-5 Jl 25 '42; Abstract and discussion. Chem & Ind 61:257 Je 6 '42

Chemical engineering plant design. F. C. Vilbrandt. 2d ed 452p $5 McGraw-Hill '42

Chemical engineering progress; abstracts of papers presented before the 34th semi-annual meeting, American institute of chemical engineers, Boston, May 11-13. Can Chem & Process Ind 26:393-4 Jl '42

Chemical engineering's achievement, 1941 award to Dow chemical company for recovering magnesium from the sea. flow sheet il Chem & Met Eng 48:73-84, 130-3 N '41

Chemical engineers' handbook. J. H. Perry, ed. 2d ed 3029p $10 McGraw-Hill '41

Chemical engineers view contributions to war effort. Oil Paint & Drug Rep 141:3+ My 18 '42

CHEMICAL engineering—*Continued*

Development of new chemical processes; abstract. H. W. Cremer and others. Chem & Ind 61:225-6 My 16 '42

Diffusional operations in chemical engineering. H. F. Johnstone and others. flow sheets bibliog il diags Chem & Met Eng 49:77-124 My '42

Engineering management of chemical plants. R. Lobstein. il Chem Ind 51:224-9 Ag '42

New processes for old ones in wartime. A. W. Hixson. Chem & Eng N 20:1217-19 O 10 '42

Recovery of vapors, with special reference to volatile solvents. C. S. Robinson. 273p $4.75 Reinhold pub. corp. '42

Review of the year's chemical engineering; Fuel efficiency committee's work. W. C. Peck. bibliog Chem Age (Lond) 46:141-2+ Mr 14 '42

Some modern chemical engineering processes and their applications. D. F. Othmer. Can Chem & Process Ind 26:15 Ja '42

Technical report writing. F. H. Rhodes. 125p bibliog(p120-1) $1.50 McGraw-Hill '41

Upgrading oleoresin by a new process; developed by the Naval stores station of the U. S. Department of agriculture. J. O. Reed. bibliog il Chem & Met Eng 48:68-70 D '41

Wartime problems to be solved. M. E. Barker. Chem & Met Eng 49:86 Ap '42

See also

Aeration
Chemical plants
Chemistry, Technical
Distillation
Drying
Evaporation
Extraction processes
Feed water purification
Filters and filtration (technical chemistry)
Food—Manufacture
Food factories—Equipment
Metallurgy
Mixing
Petroleum refineries
Refrigeration and refrigerating machinery
Refuse disposal
Sedimentation
Sewage disposal
Unit processes
Water purification

Apparatus and supplies

Austenitic stainless steels in process industries. G. A. Sands. il Chem & Met Eng 49: 132-5 My '42

Automatic control; opportunities in the post-war chemical industry. Electrician 128:564-7 Je 5 '42

Automatic control problem. F. J. Van Antwerpen. il Ind & Eng Chem 34:387-91 Ap '42

Automatic precision control; its application in the chemical industries. Electrician 129: 249-50 S 4 '42

Buffalo makes the tools for the chemist. E. R. Riegel. il Chem & Eng N 20:841-3, 864-5 Jl 10 '42

Chemical engineering catalog, 1942-43. 27th annual ed 1336p bibliog(p1298-1336) $10 Reinhold pub. corp. '42

Costs of process equipment and accessories. H. Bliss. bibliog Am Inst Chem Eng Trans 37:763-804 O '41; Same. Chem & Met Eng 48:88-98 D '41

Industrial uses of stoneware. Engineering 153:343-4 My 1 '42

Materials for the construction of chemical engineering equipment. il Chem & Met Eng 49:85-128 S; 99-100 O '42

Non-metallic chemical plant. A. E. Williams. il diags Engineer 174:5-6, 25-7, 44-6 Jl 3-17 '42

Practical corrosion tester for chemical engineers. M. H. Heeren. il diag Chem & Met Eng 49:126-7 F '42; Same. Chem Age (Lond) 46:237-8 My 2 '42

Reporting what's new in equipment. il diags Chem & Met Eng 48:104-24 N; 83-6 D '41; 49:96-9 Ja '42

Selection and maintenance of chemical pumps; co-operation between maker and user. C. H. Butcher. il Chem Age (Lond) 46:135-8 Mr 14 '42

Silver offers resistance to many chemicals. A. Butts and J. Giacobbe. il Chem & Met Eng 48:76-9 D '41

Stainless steel developments in process industries. G. A. Sands. il Chem & Met Eng 49:88-91 Ap '42

Substituting construction materials. il Chem & Met Eng 48:90-3 N '41

Time lag in automatic control. H. Seymour. Electrician 129:63-6 Jl 17 '42

See also

Absorption apparatus
Acid resisting materials
Centrifuges
Chemical plants—Equipment
Classifiers
Distillation apparatus
Drying apparatus
Evaporators
Extraction apparatus
Mixers
Separators
Thickeners

Bibliography

Manufacturers' latest publications. Published in monthly numbers of Chemical & metallurgical engineering

Study and teaching

Chemical engineering course is expanded by University of California. Oil Paint & Drug Rep 142:3+ O 12 '42

Collected papers on the teaching of chemical engineering; proceedings of the Chemical engineering division of the Society for the promotion of engineering education, conference and second chemical engineering summer school, Pennsylvania state college, June 20-30, 1939. 383p $2.50 Am. inst. chemical engineers, New York '40

Education looks to the future; abstract. K. T. Compton. Chem & Met Eng 49:97 Jl '42

Importance of engineering drawing to a chemical engineer. R. C. Kintner. W Soc E J 47:202-7 O '42

Objectives of the curriculum for the professional training of chemists. J. C. Warner. J Chem Educ 18:560-5 D '41

Objectives of the curriculum in the professional training of chemical engineers. A. B. Newman. J Chem Educ 18:566-9 D '41

Thermodynamics for undergraduate chemical engineers. V. C. Williams. J Eng Educ 32: 687-703 Ap '42

Thermodynamics for undergraduates in chemical engineering. R. York, jr. bibliog J Chem Educ 19:376-9 Ag '42

Tables, calculations, etc.

General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42

Graphical method for interconversion of ternary compositions. Kuan Han Sun and A. Silverman. Ind & Eng Chem 34:872-3 Jl '42

Interconversions of binary compositions by simple graphical methods. Kuan Han Sun and A. Silverman. bibliog Ind & Eng Chem 34:682-4 Je '42

Introduction to diffusional operations in chemical engineering. H. F. Johnstone. bibliog il Chem & Met Eng 49:78-83 My '42

Liquid-liquid extraction data. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:690-700 Je '42

Nomographs for mean driving forces in diffusional problems. E. G. Scheibel and D. F. Othmer. il Ind & Eng Chem 34:1200-8 O '42

Special slide rules can facilitate many engineering calculations. G. T. Austin. bibliog il Chem & Met Eng 49:90-3 Ag '42

Technical data section; a selection of miscellaneous tables. Chem Ind 49:525-31 pt 2 (Buyer's guidebook) O '41

Thermal properties of mixed acids; enthalpy chart. C. McKinley, jr. and G. G. Brown. bibliog il Chem & Met Eng 49:142-4 My '42

Timesaving ideas for engineers; new tables simplify calibration calculations for horizontal tanks with various heads. R. Deane. diags Chem & Met Eng 49:95-6 Ap '42

See also

Cooling towers
Distillation—Tables, calculations, etc.
Extraction processes—Tables, calculations, etc.

CHEMICAL engineering laboratories

Socony-Vacuum's new engineering building. C. H. Schlesman. il plans Ind & Eng Chem Anal ed 14:192-4 F 15 '42

Equipment

Temperature- and humidity-controlled dryer for a chemical engineering laboratory. R. M. Schaffner and J. Coull. diags Ind & Eng Chem Anal ed 14:590-2 Jl 15 '42

CHEMICAL engineers

Chemical engineer in the present world conflict; abstract. S. D. Kirkpatrick. Chem & Met Eng 49:158-60 Ag '42

Manpower in war-time. R. S. McBride. Chem & Met Eng 49:118-20 F '42

Production army vs. the combat army; demand for chemists and chemical engineers; college and industrial questionnaires. Chem & Eng N 20:157-60 F 10 '42

War service of chemists and chemical engineers. Chem & Eng N 20:837-9 Jl 10 '42

See also

Chemical engineering
—Study and teaching

also names of engineers, e.g. Frasch, Herman

CHEMICAL equilibrium

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles, p739-41); Discussion. 741-6 S '42

Chemical equilibrium and qualitative analysis. D. W. Pearce. 289p $3.75 Purdue univ, Lafayette, Ind. '42

Effect of dielectric constant on acid-base equilibria. M. Kilpatrick. bibliog Chem R 30:159-69 Ap '42

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

Equilibrium between cuprous and cupric compounds in presence of metallic copper. J. E. B. Randles. diag Chem Soc J p802-11 D '41

Exchange and transfer equilibria of acids, bases, and salts in deuterium-protium oxide mixtures; the ion product constant of deuterium oxide. R. W. Kingerley and V. K. LaMer. bibliog Am Chem Soc J 63:3256-62 D '41

Hydration of the ethylenic linkage; the equilibrium between isobutene, *t*-butyl alcohol and water. C. W. Smart and others. Am Chem Soc J 63:3000-2 N '41

Inter-relation of first- and second-order asymmetric transformations. M. M. Jamison and E. E. Turner. Chem Soc J p437-40 Jl '42

Isomerization equilibrium among the branched chain pentenes. R. H. Ewell and P. E. Hardy. diags Am Chem Soc J 63:3460-5 D '41

Olefin rearrangements; the equilibrium of olefins from pinacolyl alcohol. R. K. Smith. bibliog Am Chem Soc J 64:1733-5 Jl '42

Quantitative investigations of amino acids and peptides; equilibria between amino acids and formaldehyde. E. H. Frieden, M. S. Dunn and C. D. Coryell. bibliog diag J Phys Chem 46:215-21 F '42

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

Symposium on reactions and equilibria in chemical systems under high pressure. R. E. Gibson and others. bibliog Chem R 29:439-551 D '41

See also

Phase rule and equilibrium

CHEMICAL fog. See Fog, Chemical

CHEMICAL industries

Chemical industries as potential users of paper containers. R. W. Lahey. Paper Ind 24:440+ Jl '42

Conditions in, and some war problems of, the heavy chemical industry in 1941. P. Parrish. bibliog il diags Chem Age (Lond) 46:15-20+ Ja 10 '42

Fine chemical industry as a servant of the community. T. H. Durrans. Chem & Ind 61:211-14, 219-22 My 9-16 '42

Industrial chemistry and post-war conditions; abstract. S. A. Brazier. Chem & Ind 60: 752 O 18 '41

Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:77-109 Ja 25 '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:1-30, 41-4 Ja 10 '42

Limestone and dolomite in the chemical and processing industries. O. Bowles and M. S. Jensen. U S Bur Mines Information Circ 7169:1-15 '41; Same abr. Can Chem & Process Ind 25:658-9 D '41

Managing new product development in chemical industry. J. C. Collins. Chem & Met Eng 49:87-9 Ag; 144-6 S '42

Molders of a better destiny. C. M. A. Stine. Science 96:305-11 O 2 '42; Same. Chem & Eng N 20:1085-9 S 10 '42; Excerpts. Aero Digest 41:120-1 O '42; Min & Met 23:597-9 D '42; Abstract. Chem Ind 51:525-6 O '42

News by commodities. Published in Foreign commerce weekly

On the chemistry of war; effect of war on chemistry and chemical industry. A. A. Morton. il Tech R 44:216-17, 232+ Mr '42

Recent advances of catalysis in chemical process industries; basic considerations by N. W. Krase; Recent applications by editorial staff. bibliog il Chem & Met Eng 49: 104-10 O '42

Salt as a chemical raw material. C. D. Looker. il diags Chem Ind 49:594-601, 790-9 N-D '41

Sulfur's role in industry. W. W. Duecker and E. W. Eddy. il Chem Ind 50:174-82 F '42

What you can use; guide to materials that are suitable for various purposes in chemical converting, compounding, and processing industries. Published in weekly numbers of Oil, paint and drug reporter

See also

Abrasives
Acid industries
Alcohol industry
Anti-freeze solutions
Bleaching
Brewing industries
Carnauba wax
Ceramic industries
Ceramics
Chemical plants
Chemical research
Chemical workers
Chemicals
Chemistry
Chemistry, Technical
Clay industries
Cottonseed oil
Drug trade
Dye industry
Electrochemical industries
Electrochemistry
Fertilizer industry
Gas industry
Glass
Metallurgy
Oil industries
Paint industry and trade
Paper
Paper chemicals
Paper industry and trade
Plastic industries
Potash
Pottery
Rubber
Rubber industry and trade
Salt
Soap
Soap industry and trade
Solvents
Sugar industry and trade
Tanning materials
Textile industry

also names of chemical companies, e.g. Dow chemical company; Du Pont de Nemours, E. I., and company; Monsanto chemical company; Victor chemical works

Advertising

Clearly defined sales and advertising tasks guide Dow's marketing; departmental sales groups, business papers, and general media advertising. R. A. Brewer. il Ind Marketing 27:18-19+ Je '42

Directories

Buyer's guidebook number, 17th annual revision. W. J. Murphy, ed. Chem Ind 49: 1-736 pt 2 (Buyer's guidebook) O '41 (pa $1.50)

CHEMICAL industries—Directories—*Continued*

Chemicals buying section; an alphabetical list of chemicals with their formulas, physical and chemical properties, uses, containers, tariff, shipping regulations, with a buyer's guide of manufacturers and distributors. Chem Ind 49:135-401 pt 2 (Buyer's guidebook) O '41

Company directory; a geographical list of all chemical manufacturers, importers and recognized distributors. Chem Ind 49:17-48 pt 2 (Buyer's guidebook) O '41

Equipment and container buying section; an alphabetical list of apparatus, containers, equipment, laboratory supplies and packaging and labeling machinery, with a buyer's guide of manufacturers. Chem Ind 49:537-607 pt 2 (Buyer's guidebook) O '41

New chemicals for industry; products introduced during 1940-1942 by the advertisers in Chemical Industries magazine and displayed at the National chemical exposition, Chicago. Chem Ind 51:573-88, 606, 608 O '42

Plasticizers manufactured in America and commercially available. F. J. Van Antwerpen, comp. Ind & Eng Chem 34:68-73 Ja '42

Raw materials buying section; an alphabetical list of natural raw materials, such as gums, metals, minerals, ores, naval stores, oils, natural pigments, etc. with their physical and chemical properties, uses, containers, tariff, shipping regulations, with a buyer's guide of suppliers. Chem Ind 49:49-133 pt 2 (Buyer's guidebook) O '41

Specialties buying section; an alphabetical list of industrial specialties for textile, leather, paper and pulp, rubber, ceramic, petroleum, coatings, plastics, electroplating, metal refining and working, laundry, drycleaning, for building and plant maintenance, and other chemical processing and agricultural uses, with a buyer's guide of manufacturers. Chem Ind 49:402-524 pt 2 (Buyer's guidebook) O '41

Exhibitions

Chemical show at Grand Central palace draws big interest. Oil Paint & Drug Rep 140:5+ D 8 '41

Chemical show reflects advances; 18th annual exposition of chemical industries. Paper Tr J 113:9+ D 4 '41

Electronics at the Chemical exposition. diag Electronics 15:56+ Ja '42

Equipment highlights at the chemical show. il diags Chem Ind 50:50-2 Ja '42

Food topics to highlight chemical show. il Food Ind 14:44-6+ N '42

Keyed to defense; 18th exposition of chemical industries. il News Ed 19:1445-63 D 25 '41

List of exhibitors and exposition directory, 18th exposition of chemical industries. plans Chem Ind 49:677-84+ N '41; Same. News Ed 19:1280+ N 25 '41

These exhibits will help to solve your problems. Food Ind 13:33-44 D '41

Finance

Chemical finances, December, 1941. Chem Ind 50:123 pt 2 Ja '42 [cont monthly]

Chemicals go to war. map charts Chem & Met Eng 49:74-9 F '42

How tax rise affects chemicals. H. Lawrence. Barron's 22:20 F 2 '42

SEC issues report on manufacturers of chemicals, fertilizers. Comm & Fin Chr 155:144 Ja 8 '42

Wall Street of chemistry. Published in semimonthly numbers of Chemical and engineering news

History

Chemical chronology, 1941. Chem Ind 50:38-40+ Ja '42

Du Pont company, what it is, what it was. W. S. Dutton. il Chem Ind 51:46-52 Jl '42

President's address; S.C.I. fifty years ago. W. Cullen. Chem & Ind 61:300-5 Jl 11 '42

Securities

Chemical industry playing vital role in war effort; position of leading stocks. il Mag of Wall St 70:390-2+ Jl 25 '42

Chemical stocks. J. C. Clifford. il Mag of Wall St 69:375-6 Ja 10 '42

Chemical stocks and bonds. Chem Ind 50:124 pt 2 Ja '42 [cont monthly]

Investment audit of Monsanto Chemical. H. J. Nelson. Barron's 21:20 N 24 '41

Rate of tax increase clouds chemical industry's profit outlook; position of leading stocks. Mag of Wall St 69:606-7 Mr 7 '42

Stocks of chemical, metallurgical and process industries. Published in monthly numbers of Canadian chemistry and process industries

Why chemicals are declining. Barron's 22:20 Ja 26 '42

Statistics

Chemical facts and figures; annual statistics of the American chemical industry. 219p pa 65c; west of Miss. 75c Mfg. chemists' assn, 608 Woodward bldg, 15th & H sts, NW, Washington, D.C. '40

Drugs and fine chemicals. Published in weekly numbers of Oil, paint and drug reporter

Economics and markets. Published in monthly numbers of Chemical & metallurgical engineering

Facts and figures of American chemical industry. Chem & Met Eng 49:74-112 F '42 [reprints 50c]

Heavy chemicals. Published in weekly numbers of Oil, paint and drug reporter

Huge expansion in chemical industries in 1941. W. H. Losee and H. McLeod. Can Chem & Process Ind 26:250-7 My '42

Imports into and exports from the United States, 1939-1941. Oil Paint & Drug Rep 141:81-2 Ja 12 '42

State of chemical trade; current statistics, December 31, 1941. Chem Ind 50:121-2 pt 2 Ja '42 [cont monthly]

Synthetic chemicals production, 1941; with comparisons for 1940. Oil Paint & Drug Rep 142:54 S 7 '42

Synthetic organic chemicals output up. Oil Paint & Drug Rep 142:3+ Ag 24 '42

Australia

Australia's chemical progress; advances in explosives manufacture. il Chem Age (Lond) 47:164-5 Ag 15 '42

War's stimulus boosts Australia's chemical output. A. H. Swift. il For Comm W 9:9, 39-40 O 3 '42

Balkan states

I. G. Farben adds the Balkans to the Reich. K. Falk. il map For Comm W 9:4-9+ O 17; 8-10, 36-8 O 24 '42; Same abr. Chem Age (Lond) 47:489-92 D 5 '42

Brazil

World-wide chemistry (cont). C. E. Nabuco de Araujo, jr. News Ed 19:1413-14 D 10 '41; [cont as] Chem & Eng N 20:45-6, 419+, 621-2+, 791-2, 916-18, 1103, 1246-7, 1309-10 Ja 10, Mr 25, My 10, Je 25, Jl 25, S 10, O 10-25 '42

Canada

Canada's chemical industry stages important expansion. A. H. Swift. il For Comm W 8:3-4+ Jl 25 '42

Canada's record chemical output. il Chem Age (Lond) 47:242-3 S 12 '42

Canada's war-time explosives and chemical programme. J. R. Donald. Can Chem & Process Ind 25:686+ D '41

Export controls; revised list of materials requiring export permits. Can Chem & Process Ind 25:589-90+ N '41

Huge expansion in chemical industries in 1941. W. H. Losee and H. McLeod. Can Chem & Process Ind 26:250-7 My '42

Huge war-time expansion. Chem Age (Lond) 47:60 Jl 18 '42

Process industries of the Hamilton area. W. H. Pitcher and G. L. White. il Can Chem & Process Ind 26:258-64 My '42

CHEMICAL industries—Canada—*Continued*

Stocks of chemical, metallurgical and process industries. Published in monthly numbers of Canadian chemistry and process industries

War chemical programme expands. il Can Chem & Process Ind 25:582-6 N '41

War essentials from agricultural materials; associated opportunities in research, manufacturing and farming. W. D. MacFarlane. Can Chem & Process Ind 26:388-92 Jl '42

War-time control of chemicals. Can Chem & Process Ind 26:120 F '42

World-wide chemistry. S. J. Cook. Chem & Eng N 20:279-80, 667-8, 963-4 F 25, My 25, Ag 10 '42

Chile

World-wide chemistry (cont). R. Zoellner, J. News Ed 12:1476-7 D 25 '41 [cont as] Chem & Eng N 20:179-80, 414, 734-5, 1310-11 F 10, Mr 25, Je 10, O 25 '42

Europe

Chemistry plays important role in agricultural program for southeastern Europe. Chem & Met Eng 49:127-9 Mr '42

I. G. Farben adds the Balkans to the Reich. K. Falk. il map For Comm W 9:4-9+ O 17; 8-10, 36-8 O 24 '42

France

French chemical industry. Chem Age (Lond) 67:263 S 19 '42

French chemical industry; utilisation of new raw materials. Chem Age (Lond) 47:36 Jl 11 '42

World-wide chemistry. Chem & Eng N 20: 732-3 Je 10 '42

Germany

Continental Europe. Chem & Eng N 20:1175-6 S 25 '42

German industries handicapped by raw material shortage and lack of equipment replacements; as reported prior to declaration of war. Chem & Met Eng 49:149-52 F '42

Germany sets up trust and operating companies for chemical industries in occupied areas. Chem & Met Eng 49:169-71 S '42

Nazi chemical industry undergoes changes caused by raw material shortages. Chem & Met Eng 49:133-5 O '42

Near Eastern countries important in plans for expanding German chemical trade. Chem & Met Eng 49:126+ Ap '42

Our enemies, chemically speaking. K. Falk. Chem & Met Eng 49:80-2 Ja '42

Smaller plants in Germany are being closed in move to concentrate production. Chem & Met Eng 49:131-3 Jl '42

World-wide chemistry. Chem & Eng N 20: 731-2, 856-7, 964-5 Je 10, Jl 10, Ag 10 '42

World-wide chemistry. G. Abrahamson. Chem & Eng N 20:121, 463-4 Ja 25, Ap 10 '42

See also Interessengemeinschaft farbenindustrie aktiengesellschaft

Great Britain

Activities of traders' association in United Kingdom. For Comm W 7:24-5 Je 20 '42

British chemical developments. Can Chem & Process Ind 26:86+, 208+, 279+, 344+, 405+, 470-1, 530+ F, Ap-S '42

British increase research in field of fine chemicals and pharmaceuticals; Imperial chemical industries (pharmaceuticals) ltd. Chem & Met Eng 49:125-7 Je '42

Central committee of export groups appointed to restore British chemical exports. Chem & Met Eng 49:126-8 Ag '42

Further tightening of British chemical control eases supply problem. Chem & Met Eng 49:127-9 Jl '42

Great Britain further restricts use of rubber, tin, and other Far East products. Chem & Met Eng 49:166+ S '42

News from Britain. Can Chem & Process Ind 25:645-6 D '41

Raw materials for chemical industry. Chem & Ind 61:382 S 12 '42

Restricted use of chemicals for civilian goods effects economies in British production. Chem & Met Eng 48:142-3 N '41

World-wide chemistry (cont). G. Abrahamson. News Ed 19:1364+, 1475-6 N 25, D 25 '41 [cont as] Chem & Eng N 20:180-1, 329-30, 466-8, 527-8, 668-70, 792-3, 915-16, 1104-6, 1245-6, 1307-8 F 10, Mr 10, Ap 10-25, My 25, Je 25, Jl 25, S 10, O 10-25 '42

See also Imperial chemical industries, limited

India

Chemical industry in India; the struggle for self sufficiency. Chem Age (Lond) 46:33 Ja 10 '42

Indian chemical progress; further steps towards self-sufficiency. Chem Age (Lond) 46:156 Mr 21 '42

Wartime industrial India. il Chem & Eng N 20:726-9, 748-9 Je 10 '42

See also
Plastic industries—India

Ireland

Chemical progress in Eire. Chem Age (Lond) 47:15 Jl 4 '42

Italy

Montecatini report. Chem & Met Eng 49:122+ Ag '42

News by commodities. For Comm W 6:19 Ja 3 '42

Our enemies, chemically speaking. K. Falk. Chem & Met Eng 49:82-3 Ja '42

World-wide chemistry. Chem & Eng N 20: 733-4 Je 10 '42

Japan

American's appraisal of Japanese chemical industry. il Chem & Met Eng 49:116-17 F '42

Japan's chemical industry. Economist 142:21 Ja 3 '42

Our enemies, chemically speaking. K. Falk. Chem & Met Eng 49:83+ Ja '42

Kenya colony

Chemical industry in Kenya; active research programme. il Chem Age (Lond) 47:360-1 O 24 '42

Mexico

Developments in Lake Texcoco; Caracol process produces salt and other sodium compounds, potash, etc. A. R. Gerstel. il Chem & Eng N 20:1300-2 O 25 '42

Mexico advances in varied chemical fields. For Comm W 7:23-4 Je 27 '42

Mexico's chemical imports, first 10 months, 1940 and 1941. For Comm W 8:18 S 26 '42

World-wide chemistry. F. Orozco D. Chem & Eng N 20:281 F 25 '42

New York (state)

Chemical companies dissolved by N.Y. state in 1940. Oil Paint & Drug Rep 141:7+ Ja 12 '42

On this we build; the foundations of the chemical industry in western New York. F. L. Koethen. il Chem & Eng N 20:949-52 Ag 10 '42

New Zealand

Imperial chemical industries (NZ), ltd, Wellington, capitalized. For Comm W 5:16-17 D 27 '41

Imports of chemicals, 1939 and 1940; tabulation. For Comm W 6:21 Mr 21 '42

Palestine

World-wide chemistry. W. Roth. Chem & Eng N 20:1248-9 O 10 '42

South Africa

Activities of South African chemical industry. For Comm W 8:22-3 Ag 1 '42

Chemicals in South Africa. Chem Age (Lond) 47:62 Jl 18 '42

Chemicals in South Africa; sodium silicate and tung oil prospects. Chem Age (Lond) 46:171 Mr 28 '42

Chemistry and industry in South Africa. Chem & Ind 61:149-50, 406-7 Mr 28, O 3 '42

CHEMICAL industries—*Continued*

South Carolina

History of chemistry in South Carolina. J. E. Copenhaver. bibliog J Chem Educ 19:505-6 N '42

Southern states

Chemical process industries' growth in the South. Manuf Rec 110:24-5 D '41

50 years of pioneering; Mathieson alkali works, inc. il Manuf Rec 111:28-9 Mr '42

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:34-5+ F '42

Southwestern states

Southwestern chemical resources and trends. il maps Chem & Met Eng 49:90-104 Je '42

Southwestern chemurgic progress; abstract. V. Schoffelmayer. Chem & Met Eng 49:210-11 S '42

Spain

New developments in Spain's chemical industry. For Comm W 9:24-5 N 7 '42

Spain encounters difficulties. For Comm W 8:20-1 S 5 '42

Sweden

Chemical industry in Sweden. Chem Age (Lond) 46:302 Je 20 '42

World-wide chemistry. Chem & Eng N 20:857-8 Jl 10 '42

Switzerland

Under swastika? Swiss chemical industry. Business Week p82+ S 12 '42

Texas

Chemical engineering developments that may mean new industries. E. P. Schoch and others. il Chem & Met Eng 49:103-4 Je '42

United States

Changing pattern of industry. Adv & Sell 35:39 S '42

Chemical chronology, 1941. Chem Ind 50:38-40+ Ja '42

Chemical companies charged with anti-trust violation. Chem & Met Eng 49:119 Jl '42

Chemical industry held under production requirements plan. Oil Paint & Drug Rep 142:3+ Ag 3 '42

Chemical industry in war. R. P. Edwards; J. C. Clifford. il Mag of Wall St 69:372-6 Ja 10 '42

Chemical industry playing vital role in war effort. il Mag of Wall St 70:390-2+ Jl 25 '42

Chemical manufacturer and the national emergency. D. H. Powers. Am Dyestuff Rep 30:719-20+ D 22 '41

Chemical process board to advise WPB unit. Oil Paint & Drug Rep 142:3+ Jl 20 '42

Chemicals in relation to the war effort. R. W. Jacoby. Am Dyestuff Rep 31:311-13 Je 22 '42

Chemicals order P-89 clarified. E. W. Reid. Oil Paint & Drug Rep 141:3+ Mr 16 '42

Chemistry entering new worlds. S. B. Self. Barron's 22:16-18 S 21 '42

Drug, chemical distributors licensed. Oil Paint & Drug Rep 142:3+ Ag 10 '42

Facts and figures of American chemical industry. Chem & Met Eng 49:74-112 F '42 [reprints 50c]

From the ground up; war time chemical industry; production of explosives and munitions. D. M. Considine. Sci Am 166:278-80 Je '42

Major industry supports general defense. W. H. Hillyer. Barron's 22:9-10 Je 1 '42

Markets in review. P. B. Slawter, jr. Published in monthly numbers of Chemical industries

1941, year of mounting production. il Ind & Eng Chem 34:3-8 Ja '42

Oil, paint and drugs markets during 1941. Oil Paint & Drug Rep 141:52-80 Ja 12 '42

Price ceilings, priorities, allocations; orders of WPB, OPA, and former OPM, having to do with prices, production, distribution, and utilization of chemicals, oils, and drugs. Oil Paint & Drug Rep 141:7+ Mr 9 '42

Priorities and the chemical field. T. N. Sandifer. Chem Ind 49:611-15 N '41

Priorities in chemicals. L. Brown. News Ed 19:1248-9 N 25 '41

Priority orders for chemicals. Chem & Met Eng 49:109-12 F '42

Productivity and technological changes in the chemicals industry, 1929-40. Monthly Labor R 55:53-7 Jl '42

Raw materials for defense. Chem & Met Eng 48:94-6 N '41

Referee board appointed to advise WPB on competing chemical processes. Chem & Met Eng 49:120 Ag '42

Saga of salt; Mathieson alkali works. flow charts il Chem Ind 50:184-93 F '42

Status of manufacture of heavy chemicals. F. W. Adams. il Chem Ind 50:336-8 Mr '42

Summary of war regulations up to Jan. 2, 1942; priorities, allocations, import and price controls. Chem Ind 50:283-98 pt 2 F '42 [cont monthly]

Trade leaders review and forecast. Oil Paint & Drug Rep 141:83-94+ Ja 12 '42

Vital materials formerly imported, now produced at home. Sci Am 167:221-2 N '42

War and chemical industry. W. S. Landis. Chem & Eng N 20:313-15 Mr 10 '42; Excerpts. Oil Paint & Drug Rep 141:3+ F 2 '42

War chemicals foreshadow peacetime role. S. B. Self. Barron's 22:36-7 Ja 12 '42

What the chemical companies are doing. il Barron's 22:19-23+ S 21 '42

See also

Du Pont de Nemours, E. I., and company

Synthetic organic chemical manufacturers association

Virginia

Chemical industries of tidewater Virginia. R. C. Bardwell. Am Inst Chem Eng Trans 37:879-83 D '41

CHEMICAL industry medal

Medal awarded to Howe. Oil Paint & Drug Rep 142:5+ Jl 6 '42

Medal presented to Elmer K. Bolton. Ind & Eng Chem 34:53 Ja '42

CHEMICAL laboratories

Air conditioned chemistry laboratory does its part in winning the war; Columbia chemical div. of the Pittsburgh plate glass co. L. T. Avery. il diag Heating-Piping 14:295-7 My '42

Commercial Solvents new research building. il Chem & Eng N 20:1107-8 S 10 '42

Floridin research laboratory. il Chem & Eng N 20:743 Je 10 '42

Laboratory design; industrial chemists' discussion. Chem Age (Lond) 46:220 Ap 25 '42

Pfizer opens new building; laboratory and office building, Brooklyn. G. O. Cragwall and W. H. Staebner. il plans Chem Ind 51:512-15 O '42

Plaskon opens new laboratory, Toledo, Ohio. il Mod Plastics 19:92, 94+ Ap '42

To be seen in America; some refinements in laboratory planning and furnishing. Chem Age (Lond) 46:214-15 Ap 25 '42

See also

Chemical engineering laboratories

Metallurgical laboratories

Equipment

Advances in instrument design. il diag Chem Age (Lond) 46:216-17 Ap 25 '42

Buyers' guide of laboratory equipment and apparatus, 1942 edition. Chem & Ind 60:sup S 1-46 D 6 '41

Laboratory pressure flowmeter. L. J. Brady and B. B. Corson. il diags Ind & Eng Chem Anal ed 14:656-7 Ag 15 '42

Platinum in the chemical industry; resistance to acids and high temperatures. H. Seymour. Chem Age (Lond) 47:127-8 Ag 8 '42

Progress in laboratory apparatus design under war conditions. R. H. Powell. il Chem Age (Lond) 46:211-13 Ap 25 '42

Recent developments in laboratory apparatus and instruments. W. B. Warren and H. Draving. il diag Chem Ind 51:544-8 O '42

CHEMICAL laboratories—Equipment—*Cont.*

Scientific and professional equipment; Department of commerce specifications and tolerances for scientific precision glassware. For Comm W 6:29 Mr 28 '42

Year's intensive production; how laboratory furnishers have met heavy demands. il Chem Age (Lond) 46:218-20 Ap 25 '42

See also

Chemical apparatus
Crucibles
Electric furnaces, Laboratory

Heating and ventilation

New laboratory provided with clean temperature-controlled air; Harper chemical laboratory of the Vanadium corporation of America. Mach 48:125 D '41

Vanadium corporation of America builds new laboratory with exhaust ventilating system. il Heat & Ven 39:41 Jl '42; Same. Blast F & Steel Pl 30:684 Je '42; Same. Heating-Piping 14:408 Jl '42

Painting

Interior paints for use in chemical laboratories. D. G. Nicholson, B. S. Hopkins and L. Kemp. il Paint Oil & Chem R 104:7-9 Mr 26 '42

Safety measures

Safe practice in the chemical laboratory; avoidance of explosions. J. Creevey. Chem Age (Lond) 45:207 O 18 '41

CHEMICAL patents

Abstracts of foreign patents collected from original sources and edited; Canadian patents. Chem Ind 49:755-6 pt 2 N '41 [cont monthly]

Chemical patents; what, when, where and how to patent; abstracts. A. Swabey. Can Chem & Process Ind 26:54+ Ja '42; Chem & Ind 61:168 Ap 11 '42

Chemists should read patents. R. Frankl. bibliog News Ed 19:1399-1401 D 10 '41

Flash of genius patent doctrine and the chemist. T. Cifelli, jr. Chem & Eng N 20:523-4 Ap 25 '42

I.G.-S.O. patents to be licensed free. Oil Paint & Drug Rep 141:5+ Ap 13 '42

Industrial protein chemistry 1941-1942. J. Bjorksten. il Chem Ind 51:366-70 bibliog(167 patents, p369-70) S '42

International patent pools. Trusts & Estates 74:348-9 Ap '42

Major industry supports general defense. W. H. Hillyer. Barron's 22:9-10 Je 1 '42

Naphthenic acids; manufacture, properties, and uses; patents. E. R. Littmann and J. R. M. Klotz. Chem R 30:97-111 bibliog (p107-11) F '42

Patent law reform with special reference to chemical patents. H. E. Potts. Soc Dyers & Col J 57:329-31; Discussion. 331 N '41

Patent list. Published in weekly numbers of Chemistry and industry

Recent developments in the phosphate field; with reference to patents. H. W. Easterwood. bibliog il Ind & Eng Chem 34:13-19 Ja '42

Supreme court decides ethylene oxide suit. T. F. Healy. Chem & Eng N 20:671 My 25 '42

U.S. chemical patents; Off. gaz., vol. 533, nos. 2, 3, 4, 5. Chem Ind 50:127-34 pt 2 Ja '42 [cont monthly]

U.S. seizes patents of Standard-I.G. Oil Paint & Drug Rep 141:4+ Ap 6 '42

See also

Ceramic patents
Dye patents
Glass manufacture—Patents
Magnesium—Patents
Paper making—Patents
Petroleum refining—Patents
Resinous products—Patents
Rubber—Patents
Rubber, Artificial—Patents

CHEMICAL plants

Chem & Met report on war-time construction in chemical process industries. Chem & Met Eng 49:99-106 Jl '42 [reprints 25 cents]

Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

Fuld brothers make it for the leaders. P. B. Slawter, jr. il Chem Ind 51:236-41 Ag '42

Hollingshead; specialist in specialties. J. M. Crowe and P. Slawter. il Chem Ind 50:218-22 F '42

Magnesium from the sea. S. D. Kirkpatrick. flow sheet(p130-3) il Chem & Met Eng 48:76-84 N '41; Excerpt. Chem Age (Lond) 46:64-6 Ja 31 '42

Magnesium from the sea; Dow plant. W. J. Murphy. flow chart il map Chem Ind 49:618-28 N '41

Managing new product development in chemical industry. J. C. Collins. Chem & Met Eng 49:144-6 S '42

New-construction possibilities for chemical plants; Ferroglas construction. il Chem & Eng N 20:1236-7 O 10 '42

Plant expansions in 1941. Oil Paint & Drug Rep 141:48 Ja 12 '42

Waste-salvage program at Rahway; Merck & co. H. Stephenson. il Chem & Met Eng 49:92-3 O '42

See also

Canneries
Cement plants
Clay products plants
Fertilizer factories
Food factories
Glass factories
Metallurgical plants
Paint factories
Paper mills
Petroleum refineries
Plastic materials—Manufacture
Rubber factories
Sugar factories
Sulfuric acid—Manufacture

Accounting

Inventory procedures in the chemical industry. M. D. Moersh. Chem Ind 49:638-41 N '41

Air conditioning

American pharmaceutical co. installs cooling and dehydration equipment. H. J. Bragger. flow diag il plan Heat & Ven 39:86-9 Ja '42

Charles Pfizer company air conditioning equipment. L. J. Wachs and W. H. Wetherell. il Heat & Ven 39:72-5 Ja '42

Sharp & Dohme, inc. air conditioning indispensable in handling hygroscopic pharmaceuticals. il Heat & Ven 39:78-80 Ja '42

Costs

Costs of process equipment and accessories. H. Bliss. bibliog Am Inst Chem Eng Trans 37:763-804 O '41; Same. Chem & Met Eng 48:88-98 D '41

Design

American institute of chemical engineers; student contest problem for 1942; plant for manufacture of aniline oil by the iron-hydrochloric acid reduction process; with prize winning paper by C. C. Neas. flow sheet bibliog Am Inst Chem Eng Trans 38:653-718 Ag '42

Chemical engineering plant design. F. C. Vilbrandt. 2d ed 452p $5 McGraw-Hill '42

Design of a urea resin plant. A. Brothman and A. P. Weber. il diags Chem & Met Eng 48:73-5+ D '41

Electric equipment

Flame-proof induction motors; design for safe operation with inflammable vapours. H. Seymour. Chem Age (Lond) 45:314-15 D 20 '41

Instruments win our battles; Monsanto chemical company. H. Greer. il Factory Management 100:103-4 F '42

Maintenance of motors in the chemical industry. W. W. McCollough and H. E. Dralle. il Chem Ind 50:796-9+ Je '42

Motorizing equipment in hazardous locations. C. W. Falls. il Chem & Met Eng 49:82-4 Ag '42

Operating variables charted by electrical recorders. R. Trautschold. il Chem & Met Eng 49:94-5 Ag '42

Reporting what's new in equipment. il Chem & Met Eng 48:106-7 N '41

Time lag in automatic control. H. Seymour. Electrician 129:63-6 Jl 17 '42

CHEMICAL plants—*Continued*

Employees

See Chemical workers

Equipment

Acid resistance in chemical plant; wide application of Staybrite steel. Chem Age (Lond) 47:135-6 Ag 8 '42

Anhydrous hydrogen chloride gas; review of methods of production. A. H. Maude. bibliog flow diag il diag Am Inst Chem Eng Trans 38:865-82 Ag '42; Same. Chem Ind 51:348-54 S '42; Abstract. Chem & Eng N 20:661-2 My 25 '42

Cathodic protection of aluminum equipment. R. B. Mears and H. J. Fahrney. bibliog diags Am Inst Chem Eng Trans 37:911-23; Discussion. 923-5 D '41

Centrifugal pumps for process use. A. T. Nielsen. il diags Chem & Met Eng 49:90-2 Mr '42

Chemical engineering aspects of centrifugal fan design. C. V. Herrmann. bibliog diags Am Inst Chem Eng Trans 38:365-76 Ap '42; Excerpts. Chem & Met Eng 49:156-8 Ag '42

Chemical stoneware containers; recent developments. D. Eyles. diags Chem Age (Lond) 46:315-16 Je 27 '42

Conservation plan for used chemical plant equipment; Monsanto chemical company. G. A. Yocum. Chem Ind 51:542-3 O '42

Costs of process equipment and accessories. H. Bliss. bibliog Am Inst Chem Eng Trans 37:763-804 O '41; Same. Chem & Met Eng 48:88-98 D '41

Dust control in the plastics industry. J. W. Merrill and J. E. C. Valentin. bibliog diags Am Inst Chem Eng Trans 38:813-30 Ag '42

Equipment and container buying section; an alphabetical list of apparatus, containers, equipment, laboratory supplies and packaging and labeling machinery, with a buyer's guide of manufacturers. Chem Ind 49: 537-607 pt 2 (Buyer's guidebook) O '41

Equipment highlights at the chemical show. il diags Chem Ind 50:50-2 Ja '42

How one chemical concern now meets the war emergency; phenol plant of the Catalin corp. J. R. Callaham. flow sheet il Chem & Met Eng 49:76-9 Ag '42

How to conserve rubber equipment. O. S. True. il Chem & Met Eng 49:88-9 Mr '42

Instrumentation and automatic control; Calco chemical division reports on engineering and maintenance of instruments for Bound Brook, N.J., plant. W. B. Heinz and W. T. Henrichson. il Chem Ind 50:210-13 F '42

Keyed to defense; 18th exposition of chemical industries. il News Ed 19:1445-63 D 25 '41

Laminated plastic pipe for chemicals. V. E. Enz. il Mod Plastics 19:58+ Ag '42; Same. Chem Ind 51;200-1 Ag '42

List of exhibitors and exposition directory, 18th exposition of chemical industries. plans Chem Ind 49:677-84+ N '41; Same. News Ed 19:1280+ N 25 '41

Maintaining buildings under corrosive conditions; Monsanto chemical company. L. Wells. il Factory Management 100:89-90 Mr '42

Materials for the construction of chemical engineering equipment. il Chem & Met Eng 49:85-128 S; 99-100 O '42

Platinum in the chemical industry; resistance to acids and high temperatures. H. Seymour. Chem Age (Lond) 47:127-8 Ag 8 '42

Post-war industry in the making; nitroparaffins produced at Peoria, Ill. S. D. Kirkpatrick. il Chem & Met Eng 49:129-33 S '42

Power in chemical works; transmission problems discussed. H. Seymour. Chem Age (Lond) 47:277-80 S 26 '42

Prolonging life of centrifugal pumps. A. T. Nielsen. Chem & Met Eng 49:90-2 Jl '42

Protective measures for aluminum equipment. H. J. Fahrney and R. B. Mears. il Chem & Met Eng 49:86-9 Jl '42

Pump design for chemical processes; service in the food industries. il Chem Age (Lond) 46:145-6 Mr 14 '42

Pumps in the chemical industry. W. W. Mellen and A. P. Smith. Am Inst Chem Eng Trans 38:831-40 Ag '42; Same. Can Chem & Process Ind 26:524-6 S '42; Same. Nat Pet N 34 pt 2:R382-4 O 28 '42

Reporting what's new in equipment. il diags Chem & Met Eng 48:104-24 N; 83-6 D '41; 49:96-9 Ja '42

Substituting construction materials. il Chem & Met Eng 48:90-3 N '41

Synthetic rubber in industry. H. H. Harkins. il Chem & Met Eng 49:78-82 Mr '42; Same. Paper Tr J 114:35-8 My 7 '42

Uses and properties of acidproof cements; sulfur, sodium silicate and resin types. J. H. S. Barr. il Chem & Met Eng 49:96-9 O '42

See also

Absorption apparatus
Centrifuges
Clarifiers
Distillation apparatus
Evaporators
Extraction apparatus
Food factories—Equipment
Glass factories—Equipment
Mixers
Screens
Separators

Bibliography

Manufacturers' latest publications. Published in monthly numbers of Chemical & metallurgical engineering

Fires and fire protection

Fire, foe of war production. J. M. Landis. il Chem Ind 51:374-7 S '42

Fire protection methods for process plants. bibliog il Chem & Met Eng 49:98-104 Ag '42

Guarding against the flammable liquid fire hazard. C. L. Griffin. il Ind & Eng Chem 34:664-9 Je '42

Merck safeguards packaging department against fire. L. F. Maar. il diags Mod Packaging 15:79-82 Ja '42

War-time protection of industrial plants; protection against incendiarism. Chem & Met Eng 49:105-7 Ja '42

Heating and ventilation

Sherwin-Williams company; chemical building and warehouse. G. S. Whittaker. il Heat & Ven 39:90-3 Ja '42

Transite for chemical fumes; Searle chemical co. il Sheet Metal Worker 33:82-3 Ja '42

Maintenance and repair

Arc welding cuts maintenance costs; illustrations. C. A. Crane. Chem & Met Eng 49: 92-3 Ap '42

Management

Engineering management of chemical plants. R. Lobstein. il Chem Ind 51:224-9 Ag '42

Executive production control in chemical plants; Agfa Ansco division, General aniline & film corporation. W. von Pechmann. il Chem Ind 51:549-53 O '42

Plan for industrial good housekeeping; Monsanto co.'s method of promoting cleanliness. F. N. Williams. il Chem & Met Eng 49:96 Ag '42

Protection

U.S. guards against sabotage. J. E. Hoover. il Chem Ind 50:332-5 Mr '42

War-time protection of industrial plants. bibliog diags plan Chem & Met Eng 49:102-8 Ja '42

Safety measures

Chemical safety discussed at Toronto meeting. Can Chem & Process Ind 26:271 My '42

Collected notes on chemical safety; concerning fire and explosion hazards. J. Creevey. Chem Age (Lond) 45:257 N 15 '41

Collected notes on chemical safety; explosions in stills and reaction vessels. J. Creevey. Chem Age (Lond) 45:313 D 20 '41

Collected notes on chemical safety; hazards from dusts. J. Creevey. Chem Age (Lond) 47:58-9 Jl 18 '42

Combating chronic poisoning in chemical operations. W. M. Pierce. diags Chem & Met Eng 49:80-1+ Ag '42

CHEMICAL plants—Safety measures—*Cont.*

Diverse factors contributory to accidents. J. Creevey. Chem Age (Lond) 47:161-2 Ag 15 '42

Industrial safety gleanings; suggestions for reducing risks. Chem Age (Lond) 47:341-2 O 17 '42

Maintenance of health in chemical industries. H. F. Smyth, jr. il Chem Ind 50:514-16 Ap '42

Motorizing equipment in hazardous locations. C. W. Falls. il Chem & Met Eng 49:82-4 Ag '42

Preventing heavy metal poisoning in industrial operations. W. M. Pierce. bibliog il Chem & Met Eng 49:141-3 S '42

Waste

Salvage of waste materials in the chemical industry. A. B. Manning and others. Inst Chem Eng Trans 18:115-28 '40

CHEMICAL reaction

Action of alkaline reagents on the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2120-3 S '42

Application of the polarizing microscope to reaction study. G. W. Thiessen and L. F. Beste. diag J Chem Educ 19:331-2 Jl '42

Carboxylation; the peroxide-catalyzed reaction of oxalyl chloride with the side-chains of aralkyl hydrocarbons; a preliminary study of the relative reactivity of free radicals. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:1621-4 Jl '42

Chain photolysis of acetaldehyde in intermittent light. W. L. Haden, jr. and O. K. Rice. bibliog J Chem Phys 10:445-60 Jl '42

Chemical reactions during vulcanization. E. A. Hauser and M. C. Sze. bibliog J Phys Chem 46:118-31 Ja '42

Color reactions of sympathomimetic amines with diazonium compounds. K. H. Beyer. Am Chem Soc J 64:1318-22 Je '42

Comments on the mechanisms of covalent-bond fission. W. A. Waters. Chem Soc J p153-7 F '42

Effect of intermittent light on a chain reaction with bimolecular and unimolecular chain-breaking steps. O. K. Rice. J Chem Phys 10:440-4 Jl '42

Empirical correlation of the activation energies of gaseous unimolecular reactions with vibrational frequencies. P. Fugassi and E. Warrick. bibliog J Phys Chem 46:630-9 Je '42

Equilibrium and kinetics of gas reactions; an introduction to the quantum-statistical treatment of chemical processes. R. N. Pease. 236p $3.75 Princeton univ. press '42

Exchange and transfer equilibria of acids, bases, and salts in deuterium-protium oxide mixtures; the ion product constant of deuterium oxide. R. W. Kingerley and V. K. LaMer. bibliog Am Chem Soc J 63:3256-62 D '41

Exchange reactions of 4-nitro-1-naphthyl methyl ether and 4-nitro-1-naphthyl ethyl ether with sodium ethoxide and methoxide respectively, and the reduction of certain 1-nitronaphthalene derivatives. H. H. Hodgson and J. Habeshaw. Chem Soc J p45-7 Ja '42

Handbook of feedwater treatment; typical reactions. Power 85:888-93 D '41

Kinetics of the thermal reaction between hydrogen and cyanogen. N. C. Robertson and R. N. Pease. bibliog Am Chem Soc J 64:1880-6 Ag '42

Laws of definite composition and definite proportions. H. G. Deming. J Chem Educ 19:336 Jl '42

Mechanism and chemical kinetics of organic reactions in liquid systems; Faraday society discussions. Chem & Ind 60:753-5 O 18 '41

Mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents; the aldehydecyanohydrin reaction: evidence for the mesomeric effects of alkyl groups. J. W. Baker and M. L. Hemming. diags Chem Soc J p191-8 Mr '42

Mechanism of elimination reactions; the decomposition of quaternary ammonium bases and of xanthate esters. P. G. Stevens and J. H. Richmond. bibliog Am Chem Soc J 63:3132-6 N '41

Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42

Mechanism of processes initiated by excited atoms; the quenching of excited sodium. K. J. Laidler. bibliog J Chem Phys 10:34-42 Ja '42

Mechanism of the thermal reaction between hydrogen and oxygen. G. von Elbe and B. Lewis. bibliog diag J Chem Phys 10:366-93 Je '42

Organic reactions. R. Adams, ed. v 1 391p $4 Wiley '42

Preparation and dehydration of 6-methoxy-*i*-norcholenyldiphenylcarbinol. B. Riegel, M. F. W. Dunker and M. J. Thomas. Am Chem Soc J 64:2115-20 S '42

Reactions involving oxygen, amalgams and hydrogen peroxide. H. A. Liebhafsky. Am Chem Soc J 64:852-6 Ap '42

Reactions of anils; the reversibility of the reaction with acid anhydrides. H. R. Snyder and J. C. Robinson, jr. Am Chem Soc J 63:3279-80 D '41

Reactive paraffins, an addition. H. C. Brown and M. S. Kharasch. J Chem Educ 18:589 D '41

Reductive cleavage of dioxolones by the Grignard reagent. R. C. Fuson and A. I. Rachlin. bibliog Am Chem Soc J 64:1567-71 Jl '42

Researches on thiazoles; some interesting exchange reactions between 6-alkoxy-7-nitrobenzothiazoles and alcohols. H. H. Fox and M. T. Bogert. bibliog Am Chem Soc J 63:2996-9 N '41

Simultaneous chemical reaction and fractional distillation; isomerization. B. Longtin and M. Randall. bibliog diag Ind & Eng Chem 34:292-5 Mr '42

Structure of the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2123-7 S '42

Symposium on reactions and equilibria in chemical systems under high pressure. R. E. Gibson and others. bibliog Chem R 29:439-551 D '41

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

See also

Addition compounds
Base exchanging compounds
Bromination
Cannizzaro reaction
Catalysis
Catalysts
Chemical equilibrium
Chlorination
Condensation, Chemical
Dehydration
Dehydrogenation
Electrolysis
Explosions
Friedel-Crafts reaction
Grignard reagents
Haloform reaction
Hydration
Hydrogenation
Hydrolysis
Mannich reaction
Menschutkin reaction
Metalation
Methylation
Molecular compounds
Nascent state
Nitration
Oxidation
Photochemistry
Polymerization
Precipitation
Reduction, Chemical
Sandmeyer reaction
Schmidt reaction
Substitution (chemistry)
Synthesis
Unit processes
Unsaturation
Wurtz reaction

Velocity

Absorption of oxygen by glutathione in alkaline solutions; kinetics of the reaction at *p*H 9 to 11. M. B. Young and H. A. Young. bibliog Am Chem Soc J 64:2282-7 O '42

CHEMICAL reaction—Velocity—*Continued*

Acetylenic analog of neopentyl bromide; evidence that the hindrance to displacement reactions in neopentyl halides is steric in nature. P. D. Bartlett and L. J. Rosen. bibliog il Am Chem Soc J 64:543-6 Mr '42

Acid catalyzed hydrolysis of ethyl esters of aliphatic acids. H. A. Smith and J. H. Steele. bibliog Am Chem Soc J 63:3466-9 D '41

Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64:2362-5 O '42

Calcium metaphosphate; rate of reaction of phosphorus pentoxide with rock phosphate. G. L. Frear and L. H. Hull. diags Ind & Eng Chem 33:1560-6 D '41

Concentration of dilute solutions of electrolytes by base-exchange materials; zeolites for recovery of metal ions. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41

Derivation of a general kinetic equation for reaction between ions and dipolar molecules. E. S. Amis and G. Jaffé. J Chem Phys 10:598-604 S '42

Dielectric and solvent effects upon the iodide-persulfate reaction. E. S. Amis and J. E. Potts, jr. bibliog Am Chem Soc J 63:2883-8 N '41

Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

Electrostatic influence of substituents on reaction rates; solvent effect. F. H. Westheimer, W. A. Jones and R. A. Lad. bibliog J Chem Phys 10:478-85 Jl '42

Exchange reaction between simple alkyl iodides and iodide ion. H. Seelig and D. E. Hull. bibliog diags Am Chem Soc J 64:940-8 Ap '42

Formation of chymotrypsin from chymotrypsinogen. J. A. V. Butler. bibliog Am Chem Soc J 63:2968-70 N '41

Graphical calculation of nonisothermal reactions. J. W. Greene, J. B. Sutherland and G. Sklar. Ind & Eng Chem 34:65-7 Ja '42

Influence of substituents on the reactivity of the hydroxyl group in β-phenylethyl alcohol. G. M. Bennett and M. M. Hafez. Chem Soc J p652-9 O '41

Kinetic study of the reactions of *n*-butyl bromide with the sodium salts of phenol, thiophenol and *n*-butyl mercaptan. O. R. Quayle and E. E. Royals. bibliog Am Chem Soc J 64:226-30 F '42

Kinetics and equilibria of the carbinol formation of phenolphthalein. M. D. Barnes and V. K. LaMer. bibliog Am Chem Soc J 64:2312-16 O '42

Kinetics and mechanism of 2,6-di-iodotyrosine formation. Choh Hao Li. bibliog Am Chem Soc J 64:1147-52 My '42

Kinetics of the hydrogen fluoride catalyzed reaction between toluene and *t*-butyl chloride. J. W. Sprauer and J. H. Simons. diag Am Chem Soc J 64:648-59 Mr '42

Kinetics of the trivalent vanadium-oxygen reaction. J. B. Ramsey, R. Sugimoto and H. DeVorkin. bibliog Am Chem Soc J 63:3480-6 D '41

Mechanism of aromatic side-chain reactions, with special reference to the polar effects of substituents; physical and chemical evidence relating to the polar effect of *o*-methyl substituents in derivatives of the type $C_6H_2Me_3{\cdot}CO{\cdot}CH_2R$. J. W. Baker and W. T. Tweed. Chem Soc J p796-802 D '41

Molecular kinetics of trypsin action. J. A. V. Butler. bibliog Am Chem Soc J 63:2971-4 N '41

Persulphate-iodide reaction; the critical increment, and the catalysed reaction in the presence of neutral salts. W. J. Howells. Chem Soc J p641-5 O '41

Pressure and rate processes. A. E. Stearn and H. Eyring. bibliog Chem R 29:509-23 D '41

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

Rate equations for consecutive reactions. T. L. Hill. Am Chem Soc J 64:465-7 F '42

Rate of inversion of sucrose as a function of the dielectric constant of the solvent. C. J. Plank and H. Hunt. bibliog J Phys Chem 45:1403-15 D '41

Rates of reaction of diacetone glucose, diacetone galactose and diacetone sorbose with *p*-toluenesulfonyl chloride in pyridine solution. R. C. Hockett and M. L. Downing. Am Chem Soc J 64:2463-4 O '42

Reaction rates in ionic solutions. P. Debye. bibliog Electrochem Soc Trans 82 (preprint 13):133-9 O '42

Reaction velocities at low temperatures; the ionisation of nitroethane at temperatures between −32° and +20°. R. P. Bell and A. D. Norris. Chem Soc J p854-6 D '41

Reactions in solutions containing O_3, H_2O_2, H^+ and Br^-; the specific rate of the reaction $O_3 + Br^- \rightarrow$. H. Taube. Am Chem Soc J 64:2468-74 O '42

Solvent effects on the kinetics of ionic reactions and the choice of the concentration scale. H. G. Davis and V. K. LaMer. bibliog J Chem Phys 10:585-97 S '42

Some aspects of the rate of reaction of oleic acid with oxygen. J. L. Henderson and H. A. Young. bibliog il J Phys Chem 46:670-84 Je '42

Temperature dependence of reaction rates from the standpoint of the Broensted-Christiansen-Scatchard equation. E. S. Amis and G. Jaffé. bibliog J Chem Phys 10:646-50 O '42

Water effects upon the photochemical bromination of acetophenone. E. M. Hicks, M. H. Hicks and J. R. Sampey. bibliog Am Chem Soc J 64:887-9 Ap '42

CHEMICAL reagents

A.C.S. analytical reagents; specifications recommended by the Committee on analytical reagents of the American chemical society. 132p pa $1 Am. chemical soc, Washington, D.C. '41

Analytical possibilities of some hydroxybenzalrhodanines; *o*-, *m*-, and *p*-hydroxybenzalrhodanines and 3,4-dihydroxybenzalrhodanine. A. W. Scott and T. E. Robbins. bibliog Ind & Eng Chem Anal ed 14:206-7 Mr 15 '42

Chemical solutions; reagents useful to the chemist, biologist, and bacteriologist. F. Welcher. 404p bibliog(p397-9) $4.75 Van Nostrand '42

Color reactions of organic nitrogen compounds with selenious acid-sulfuric acid solution. B. T. Dewey and A. H. Gelman. bibliog Ind & Eng Chem Anal ed 14:361-2 Ap 15 '42

Colorimetric determination of silver with 2-thio-5-keto-4-carbethoxy-1,3-dihydropyrimidine. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:148-9 F 15 '42

Effects of various reagents on cotton and pulp; abstract. A. Marschall. Paper Ind 24:652 S '42

Estimation of metals in water, with special reference to the use of organic reagents; abstract. T. Stones. Am Water Works Assn J 34:1455-8 S '42

Identification of organic acids by the use of *p*-bromobenzyl pseudothiuronium bromide. B. T. Dewey and H. G. Shasky. Am Chem Soc J 63:3526-7 D '41

Identification of organic compounds; chlorosulfonic acid as a reagent for identification of alkylbenzenes. E. H. Huntress and J. S. Autenrieth. Am Chem Soc J 63:3446-8 D '41

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42; Abstract. Chem Age (Lond) 47:131 Ag 8 '42

Organic analytical reagents. J. H. Yoe and L. A. Sarver. 339p bibliog(p263-326) $4 Wiley '41

CHEMICAL reagents—*Continued*

Organic reagents in inorganic analysis. P. von Stein. 242p $4.50 Chemical pub. co. '42

Orthonitrosophenol as a new reagent in colorimetric analysis; determination of cobalt. G. Cronheim. bibliog Ind & Eng Chem Anal ed 14:445-7 My 15 '42

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

Supersensitive Schiff's aldehyde reagent; demonstration of a free aldehyde group in certain aldoses. W. C. Tobie. bibliog Ind & Eng Chem Anal ed 14:405-6 My 15 '42

2-Thio-5-keto-4-carbethoxy-1,3-dihydropyrimidine and related compounds. J. H. Yoe and G. R. Boyd, jr. bibliog Am Chem Soc J 64:1511-13 Jl '42

See also

Acetyl chloride
Cerium sulfate
Chemicals
Dispersing agents
Dithizone
Fischer reagent
Grignard reagents
Hanus solution
Hydrofluoric acid
Luminol
Nessler's reagent
Oppenauer reagent
Phenylhydrazine
Potassium iodide
Potassium permanganate
Schweitzer's reagent
Sodium rhodizonate
Sodium thiosulfate
Solvents
Sulfamic acid
Tetrahydroxyquinone

Bibliography

Bibliography. (In Organic analytical reagents). J. H. Yoe and L. A. Sarver. p263-326 $4 Wiley '41

CHEMICAL research

American chemical society discusses wartime research at 103d meeting, Memphis, April 20-24. Oil Paint & Drug Rep 141:5+ Ap 27 '42

Development of new chemical processes; abstract. H. W. Cremer and others. Chem & Ind 61:225-6 My 16 '42

Development of nylon. E. K. Bolton. il Ind & Eng Chem 34:53-8 Ja '42; Same cond. Chem & Ind 61:31-5 Ja 17 '42; Same cond. Soc Dyers & Col J 58:71-4 Ap '42; Same cond. Textile Col 64:303-6 Je '42

Du Pont fellowships. News Ed 19:1404 D 10 '41; Same. Oil Paint & Drug Rep 140:36 D 8 '41; Same. Science 94:509 N 28 '41

Effective use of scientific ability. Science 96:374 O 23 '42

Frozen assets: the problem of putting chemical knowledge to work. B. A. Soule. J Chem Educ 19:508-9 N '42

Industrial chemistry and post war conditions. S. A. Brazier. Chem & Ind 60:891-4 D 20 '41

Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:77-109 Ja 25 '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:1-30, 41-4 Ja 10 '42

Industry's interest in the professional training of chemists. W. C. Moore. J Chem Educ 18:576-80 D '41

Investigations at Mellon institute 1941-42. il Chem & Eng N 20:443-61 Ap 10 '42

Managing new product development in chemical industry. J. C. Collins. Chem & Met Eng 49:87-9 Ag '42

Molders of a better destiny. C. M. A. Stine. Science 96:305-11 O 2 '42; Abstract. Chem Ind 51:525-6 O '42; Excerpts. Min & Met 23:597-9 D '42

Physical tools in chemistry. D. H. Killeffer. il diag R Sci Instr 13:49-53 F '42

Recent advances of catalysis in chemical process industries; basic considerations by N. W. Krase; Recent applications by editorial staff. bibliog il Chem & Met Eng 49:104-10 O '42

Reminiscences of textile chemistry. G. Ullmann. Textile Col 64:7-11, 48 Ja '42

Research with the polarograph. O. H. Müller. bibliog diag Ind & Eng Chem Anal ed 14:99-105 F 15 '42

Researches at Mellon institute, 1941-42. W. A. Hamor. Science 95:458-61 My 1 '42

War essentials from agricultural materials; associated opportunities in research, manufacturing and farming. W. D. MacFarlane. Can Chem & Process Ind 26:388-92 Jl '42

Wartime research; activities of the Division of chemistry, National research council. F. G. Green. il Can Chem & Process Ind 25:611-13 N '41

See also

Ceramic research
Chemical laboratories
Gas research
Metallurgical research
Paint research
Paper research
Petroleum research
Rubber research
Textile research

CHEMICAL societies

Chemical society's message to the All Soviet Union chemical society. Chem & Ind 60:858 D 6 '41

Future of the chemical profession. W. Harrison. Chem & Ind 61:124-5 Mr 7 '42; Discussion. 61:145-6, 165-6, 183-5, 270, 307-8, 401-2, 425 Mr 21, Ap 4, 18, Je 13, Jl 11, S 26, O 17 '42

John Maclean, Charles Macintosh, and an early chemical society in Glasgow. J. A. V. Butler. J Chem Educ 19:43-4 Ja '42

Profession of chemistry; comments on report of Liverpool conference of Institute of chemistry of 1923. W. Harrison. Chem & Ind 61:215 My 9 '42

See also

American chemical society
Electrons (chemical club)

CHEMICAL society, London

Hundred and first anniversary meeting, London, March 26. Chem Soc J p309-32 Ap '42

CHEMICAL stability

Electronic structure and stability of hydrogen halides and of complex ions XO_4. K. Fajans and N. Bauer. bibliog J Chem Phys 10:410-15 Jl '42

Heats of dissociation of some hexaarylethanes. R. Preckel and P. W. Selwood. bibliog diag Am Chem Soc J 63:3397-403 D '41

Oxidation characteristics of lubricating oils; relation between stability and chemical composition. G. H. von Fuchs and H. Diamond. bibliog il diag Ind & Eng Chem 34:927-37 Ag '42

CHEMICAL stoneware. See Stoneware

CHEMICAL warfare

Chemical detection of war gases for civilian defense. T. F. Bradley. il diags Chem & Eng N 20:893-6 bibliog(p893) Jl 25 '42

Chemical poisoning of municipal water supplies; abstract. H. M. Taylor. Pub Works 73:38 My '42

Chemical warfare agents; reference and training chart prepared by Office of civilian defense. Power Pl Eng 46:116 N '42

Chemical warfare course, University of Cincinnati college of medicine. Science 95:400-1 Ap 17 '42

Chemical warfare; methods of gas identification, gas-proof shelters; abstract. C. E. Beland. Can Chem & Process Ind 26:272 My '42; Same. J Chem Educ 19:364-5 Ag '42

Chemist in three wars; first World war. O. Eisenschiml. Science 96:350-2 O 16 '42

Civilian defense; building protection; gas. il diags Arch Forum 76:30-1 Ja '42

Decontamination of chemical warfare gases; abstract. G. L. McCoy. Chem & Met Eng 49:198-9 My '42

Defence against gas; abstract. A. E. Flood. Can Chem & Process Ind 26:332-3 Je '42

Gas first aid kits and treatment; Honolulu water works. F. Ohrt. Am Water Works Assn J 34:1157-62 Ag '42

Gas identification service; aspects of organization and operation in England. G. W. Ferguson. Can Chem & Process Ind 26:609-11 O '42

Gas warfare; the chemical weapon, its use, and protection against it. A. H. Waitt. 327p $2.75 Duell, Sloan & Pearce, 270 Madison av, New York '42

CHEMICAL warfare—*Continued*

Information on gases likely to be used in warfare; tabulation. J. F. Kern, jr. Heat & Ven 39:44 F '42

Low-cost decontamination stations. diags plan Eng N 129:631-2 N 5 '42

Manual of high explosives, incendiaries and poison gases. I. Fairhurst. 110p pa $1 Isabelle Fairhurst, Greenfield, Mass. '42

Mechanism of action of ordinary war gases. C. D. Leake and D. F. Marsh. bibliog Science 96:194-7 Ag 28 '42

Medical manual of chemical warfare. Great Britain. War office. rev ed 106p, 15p $2.50 Chemical pub. co. '42

Poison in the air; what to do in case of gas attacks. il Safety Eng 84:10-14 Ag '42

Protection against war chemicals; general information concerning the characteristics, effects, and counteraction; tabulation. W. P. Burn. Metal Prog 41:669 My '42

Protection against war gases. bibliog Chem & Met Eng 49:93-6 Mr '42

Protection from blister warfare gases; abstract. G. L. McCoy. Chem & Met Eng 49: 146+ Ap '42

Survey of the gas contamination problem in the engineering industry, with special reference to electrical machinery. J. W. Martin. Inst Mech Eng J & Proc 147:Proc 51-2 Ap '42; Same. Inst E E J 89 pt 1:173-4 Ap '42

What the Chemical warfare service is doing. W. O. Brooks. J Chem Educ 19:474-7 O '42

See also
Gas masks

CHEMICAL workers

Chemical industry work essential to war listed. Oil Paint & Drug Rep 142:7+ O 26 '42

Chemical wage set for U.S. work. Oil Paint & Drug Rep 141:5+ Ap 6 '42

Chemical workers draft exempt listed. Oil Paint & Drug Rep 142:5+ Jl 20 '42

Collective bargaining in the chemical industry, May 1942. A. Weiss. Monthly Labor R 55:64-85 Jl '42

Combating chronic poisoning in chemical operations. W. M. Pierce. diag Chem & Met Eng 49:80-1+ Ag '42

Maintenance of health in chemical industries. H. F. Smyth, jr. il Chem Ind 50:514-16 Ap '42

Manpower in war-time. R. S. McBride. Chem & Met Eng 49:118-20 F '42

Meeting the man-power shortage. Chem & Met Eng 48:100-1 N '41

Occupational bulletin 24, production of chemicals and allied products activity. War manpower commission. Chem & Eng N 20: 1294-5 O 25 '42

Preventing heavy metal poisoning in industrial operations. W. M. Pierce. bibliog il Chem & Met Eng 49:141-3 S '42

Productivity and technological changes in the chemicals industry, 1929-40. Monthly Labor R 55:53-7 Jl '42

Recruiting technical personnel at Monsanto. R. B. Semple. Chem Ind 51:198-9 Ag '42

War-time employment of women in the chemical industry. Chem & Ind 60:873-5 D 13 '41

Women workers in chemical industry; digest from British the Chemical trade journal. Chem Ind 50:97+ Ja '42

Work-week plan for chemical industry. R. R. Lyman and D. F. Othmer. il Chem & Met Eng 49:86-7 Ja '42

See also
Chemists
National council of
gas, coke and
chemical workers

CHEMICAL writing

Per cent; ambiguity in instructions for preparing mixtures of fluids. K. A. C. Elliott. Science 95:123 Ja 30 '42

CHEMICALS

Adapting processes to defense needs. Chem & Met Eng 48:97-9 N '41

Case of the missing chemicals; National registry of rare chemicals. Fortune 26:24+ O '42

Chemical allocations issued for October. Oil Paint & Drug Rep 142:3+ O 26 '42

Chemical repellents. F. J. Van Antwerpen. bibliog il Ind & Eng Chem 33:1514-18 D '41

Chemicals buying section; an alphabetical list of chemicals with their formulas, physical and chemical properties, uses, containers, tariff, shipping regulations, with a buyer's guide of manufacturers and distributors. Chem Ind 49:135-401 pt 2 (Buyer's guidebook) O '41

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:48 Jl 16; 34 Jl 23 '42

Chemicals listed as implements of war. Oil Paint & Drug Rep 141:5+ Ap 20 '42

Chemicals play important role in maintaining petroleum equipment. il Oil & Gas J 40: 106 Ap 30 '42

Commodity reviews, 1941. Chem & Met Eng 49:82-105 F '42

Consumption of chemicals by municipal waterworks in Canada; statistical data, 1941. il Water & Sewage 80:23-4, 46, 48-9 O '42

Development of the new chemical industry based upon petroleum. R. H. H. Morley. bibliog Soc Dyers & Col J 58:133-7; Discussion. 137 Jl '42

Export controls; revised list of materials requiring export permits. Can Chem & Process Ind 25:589-90+ N '41

Foreign trade in chemicals, nine months of 1941. Chem & Met Eng 49:107 F '42

Handbook of feedwater treatment; chemical building blocks; common compounds. Power 85:885-7 D '41

Handbook of feedwater treatment; useful chemical data. Power 85:896 D '41

Lime as a chemical raw material. W. E. Wing. flow sheet il diag Chem Ind 50:760-7 Je '42

Monsanto licks package puzzle of 500 items squeezed by war. il Sales Management 51: 46+ Jl 15 '42

National registry of rare chemicals at the Armour research foundation. Science 96:106, 331 Jl 31, O 9 '42

Natural gas derivatives can be converted into wide range of wartime chemicals. G. Egloff. il Nat Pet N 34 pt 2:R343-7 O 28 '42

New chemicals for industry; a catalogue of new chemical products introduced during 1940-1941 by the advertisers in Chemical industries magazine and displayed at the 18th exposition of chemical industries. Chem Ind 49:653-76 N '41

New chemicals for industry; products introduced during 1940-1942 by the advertisers in Chemical Industries magazine and displayed at the National chemical exposition, Chicago. Chem Ind 51:573-88, 606, 608 O '42

Packaging chemicals and chemical specialties in wartime; report of American management association conference. P. Slawter. il Chem Ind 50:644-8 My '42

Paints, chemicals use banned in toy making. Oil Paint & Drug Rep 141:3+ Ap 13 '42

Petroleum is plentiful source of raw material for chemicals. L. F. Hatch. Oil & Gas J 40:197-8+ Ja 29 '42

Priorities and the chemical field. T. N. Sandifer. Chem Ind 49:611-15 N '41

Priorities in chemicals. L. Brown. News Ed 19:1248-9 N 25 '41

Priorities scheme revised for 1942 first-quarter needs; Production requirements plan materials list no. 1. Oil Paint & Drug Rep 140:3+ D 8 '41

Priority orders for chemicals. Chem & Met Eng 49:109-12 F '42

Raw materials buying section; an alphabetical list of natural raw materials, such as gums, metals, minerals, ores, naval stores, oils, natural pigments, etc. with their physical and chemical properties, uses, containers, tariff, shipping regulations, with a buyer's guide of suppliers. Chem Ind 49: 49-133 pt 2 (Buyer's guidebook) O '41

Raw materials for defense. Chem & Met Eng 48:94-6 N '41

CHEMICALS—*Continued*

Resistance of plastics to chemical reagents. G. M. Kline, R. C. Rinker and H. F. Meindl. bibliog il Am Soc T M Proc 41:1246-57 '41; Same. Mod Plastics 19:59-66 D '41; Discussion. Am Soc T M Proc 41:1258-60 '41

Silver offers resistance to many chemicals. A. Butts and J. Giacobbe. il Chem & Met Eng 48:76-9 D '41

Situation with respect to fine chemicals. J. A. Garvin. Oil Paint & Drug Rep 141:54B, 55 Je 22 '42

Trends in consumption of chemicals in industry. Chem & Met Eng 49:80-1 F '42

Uses of microörganisms in the production of chemical products. C. G. Dunn. il J Chem Educ 19:387-92 Ag '42

WPB reports on scarcity of materials. Chem & Eng N 20:375, 607, 798-9, 1232-3 Mr 25, My 10, Je 25, O 10 '42

What the chemical companies are doing. il Barron's 22:19-20+ S 21 '42

Wide variety of chemicals made from refinery gases. W. T. Ziegenhain. flow chart il Oil & Gas J 41:185-6+ Je 25 '42

See also

Acids
Bath salts
Catalysts
Chemical industries
Chemical reagents
Chemistry, Medical and pharmaceutical
Chemistry, Technical
Cleaning compositions
Dispersing agents
Driers
Drugs
Dyes and dyeing—Chemistry
Oils and fats
Paint materials
Paper chemicals
Plasticizers
Refrigerants
Rubber chemicals
Salts
Solvents
Surface active substances
Tanning materials
Textile chemicals
Textile chemistry
Wetting agents

Manufacture

Active carbon in crystallization processes. M. Faye and R. A. Hagberg. il Chem Ind 50:358-9 Mr '42

Aromatics made by dissolving coal; abstract. H. C. Howard. Coal Age 47:158 O '42

Petroleum research and wars. B. T. Brooks. bibliog il Ind & Eng Chem 34:798-803 Jl '42

Post-war industry in the making; nitroparaffins produced at Peoria, Ill. S. D. Kirkpatrick. il Chem & Met Eng 49:129-33 S '42

Status of manufacture of heavy chemicals. F. W. Adams. il Chem Ind 50:336-8 Mr '42

Prices

Chemical container charge depends on user's profits. Oil Paint & Drug Rep 142:3+ O 19 '42

Chemical market prices. Published in semimonthly numbers of Chemical and engineering news

Chemical prices; range of quotations, 1940-1936. Chem Ind 49:9-16 pt 2 (Buyer's guidebook) O '41

Chemicals, oils, and drugs price records, 1935, 1937, 1939-1941; tabulation. Oil Paint & Drug Rep 141:50 Ja 12 '42

Chemicals, oils, and drugs price records, 1935, 1937, 1939, 1941, and first quarter, 1942. Oil Paint & Drug Rep 141:39 Mr 30 '42

Chemicals, oils, and drugs price trend over 1941; chart. Oil Paint & Drug Rep 141:46 Ja 12 '42

Current market quotations (listed alphabetically by name of product; with indication of wartime status). Published in weekly numbers of Oil, paint and drug reporter

Current prices. Published in monthly numbers of Chemical & metallurgical engineering

Market prices; chemicals, solvents, oils and metals. Published in monthly numbers of Canadian chemistry and process industries

OPA is hunting for reasons to lower chemical ceilings. Oil Paint & Drug Rep 142:3+ Jl 13 '42

Price ceilings, priorities, allocations; orders of WPB, OPA, and former OPM, having to do with prices, production, distribution, and utilization of chemicals, oils, and drugs. Oil Paint & Drug Rep 141:7+ Mr 9 '42

Price trends for chemicals, 1941. Chem & Met Eng 49:106 F '42

Prices current. Published in monthly numbers of Chemical industries

Rubber chemical markets. Published in monthly numbers of Rubber age

Summary of war regulations up to Jan. 2, 1942; priorities, allocations, import and price controls. Chem Ind 50:283-98 pt 2 F '42 [cont monthly]

Storage

Collected notes on chemical safety; hazards in transport and storage. J. Creevey. Chem Age (Lond) 46:155 Mr 21 '42

Transportation

Collected notes on chemical safety; hazards in transport and storage. J. Creevey. Chem Age (Lond) 46:155 Mr 21 '42

Containers and the war program. M. F. Crass, jr. Chem Ind 50:348-50+ Mr '42

Containers for war-time transport; features that provide for maximum length of service; steel drums and other containers. il Chem Age (Lond) 46:311-12+ Je 27 '42

Fibre drums as substitutes for steel. il Chem Ind 50:803 Je '42

Linings for steel drums and containers. M. W. Frishkorn. Chem Ind 50:56+ Ja '42

Maximum railroad car loading order revised; special requirements for handling of chemicals and allied products in straight carload shipments. Oil Paint & Drug Rep 142:3+ O 19 '42

Welded containers for chemicals; excellent results of ten years' test conditions. il Chem Age (Lond) 46:313 Je 27 '42

Uses

Industrial uses of chemicals and related materials. Published in weekly numbers of Oil, paint and drug reporter

What you can use; guide to materials that are suitable for various purposes in chemical converting, compounding, and processing industries. Published in weekly numbers of Oil, paint and drug reporter

CHEMILUMINESCENCE. See Luminescence

CHEMIST advisory council

Disbands. Oil Paint & Drug Rep 141:7+ F 16 '42

CHEMISTRY

Acids and bases; a collection of papers. N. F. Hall and others. 103p $1 Journal of chemical education, Easton, Pa. '41

As boundaries break; how biology draws upon physics and chemistry for the solution of new borderline problems. F. O. Schmitt. il Tech R 44:263-5+ Ap '42

Brief college chemistry. L. B. Richardson and A. J. Scarlett. 385p $3 Holt '42

Chemical kinetics and natural products. W. A. Noyes, jr; H. S. Taylor; W. A. Jacobs. 41p pa 50c Univ. of Pennsylvania press, Philadelphia '41

Chemist in three wars. O. Eisenschiml. Science 96:347-52, 367-73 O 16-23 '42; Abstract. Chem & Met Eng 49:171-4 N '42

Chemistry. G. Wendt. 300p bibliog(p283-4) $2.25; college ed $1.75 Wiley '42

Chemistry for nurses, including certain essential principles from inorganic and organic chemistry, and biochemistry. H. C. Biddle. 2d ed 327p bibliog(p303) $2.75 Davis '41

Essentials of college chemistry. N. Kharasch and H. S. Mackenzie. 513p bibliog(pvi-vii) $3.50 Van Nostrand '42

General chemistry for colleges. B. S. Hopkins. 3d ed 758p $3.80 Heath '42

Getting acquainted with chemistry. A. Morgan. 271p $2.50 Appleton-Century '42

Introduction to college chemistry. W. McPherson and others. 608p bibliog(p581-3) $3.50 Ginn '42

Introductory college chemistry; a course for beginners. H. G. Deming and B. C. Hendricks. 2d ed rev 521p $3 Wiley '42

Living chemistry. M. R. Ahrens, N. F. Bush and R. K. Easley. 528p $2.28 Ginn '42

CHEMISTRY—*Continued*

Modern-life chemistry. F. O. Kruh, R. H. Carleton and F. F. Carpenter. 2d ed 774p bibliog(p743-53) $1.80 Lippincott '41

New practical chemistry as applied to modern life. N. H. Black and J. B. Conant. rev ed 683p bibliog(p645-7) $2.20 Macmillan '42

New world of chemistry; science in the service of man. B. Jaffe. rev ed 692p $1.96 Silver Burdett co, New York '42

On the chemistry of war; effect of war on chemistry and chemical industry. A. A. Morton. il Tech R 44:216-17, 232+ Mr '42

See also

Acids
Air
Alkalies
Atomic weights
Atoms
Bases (chemistry)
Biological chemistry
Botanical chemistry
Catalysis
Chemical reaction
Chemicals
Chemists
Colloids
Color
Combustion
Condensation, Chemical
Crystallization
Crystallography
Dissociation
Dyes and dyeing—Chemistry
Electrochemistry
Electrolysis
Electrolytes
Electrons
Evaporation
Explosives
Fermentation
Gases
Geochemistry
Halogens
Hydrolysis
Ions
Liquids
Metallurgy
Metals
Mineralogy
Molecules
Oxidation
Photochemistry
Photographic chemistry
Physiological chemistry
Poisons, Industrial
Radioactive substances
Reduction, Chemical
Rubber—Chemistry
Salt
Salts
Solids
Solution (chemistry)
Solvents
Spectrum
Stereochemistry
Synthesis
Textile chemistry
Thermochemistry
Waxes

Dictionaries

Chemical dictionary. F. H. Campbell, comp. 85p $2.50 Chemical pub. co. '42

Condensed chemical dictionary. F. M. Turner and others, eds. 3d ed rev & enl 756p $12 Reinhold '42

Examinations

Objective test items of the recognition type that test reasoning and minimize guessing. T. A. Ashford and W. M. Shanner. J Chem Educ 19:86-9 F '42

Experiments

Lecture demonstrations. J. H. Walton. diags J Chem Educ 19:453-7 O '42

History

Christopher Glaser. C. de Milt. bibliog il J Chem Educ 19:53-60 F '42

History of chemistry in America. C. A. Browne and E. V. Armstrong. J Chem Educ 19:379-81 Ag '42

History of chemistry in Arkansas. H. Hale and P. G. Horton. bibliog il J Chem Educ 19:357-9 Ag '42

History of chemistry in South Carolina. J. E. Copenhaver. bibliog J Chem Educ 19:505-7 N '42

Johann Rudolf Glauber (1604-70); his chemical and human philosophy. E. V. Armstrong and C. K. Deischer. bibliog il J Chem Educ 19:3-8 Ja '42

Some early American students of chemistry at the University of Edinburgh, 1750-1800. M. E. Kapp. bibliog J Chem Educ 18:553-9 D '41

Laboratory manuals

Laboratory manual to Elementary general chemistry. J. C. Hogg and C. L. Bickel. 283p pa $1.60 Van Nostrand '42

Selective experiments in general chemistry. A. Silverman and A. L. Robinson. rev ed 310p $2.50 Van Nostrand '42

Semimicro experiments in general chemistry. W. B. King. 137p $2.50 Prentice-Hall '41

Problems, exercises, etc.

How to solve problems in general chemistry. J. A. Babor and C. B. Kremer. 88p pa 75c Crowell '41

Study and teaching

Chemistry in the engineering defense training program of the Pennsylvania state college. A. Rose. J Chem Educ 19:135-6 Mr '42

Curriculum for the Bachelor of science degree in chemistry. W. T. Read. J Chem Educ 18:569-72 D '41

Grading system for general chemistry. C. B. DeWitt. J Chem Educ 19:129-30 Mr '42

Graduate courses given at the summer session of Columbia university. Science 96:9 Jl 3 '42

High-school chemistry. Published in monthly numbers of Journal of chemical education

History of chemistry in Arkansas. H. Hale and P. G. Horton. bibliog il J Chem Educ 19:357-9 Ag '42

Objectives of the curriculum for the professional training of chemists. J. C. Warner. J Chem Educ 18:560-5 D '41

Project teaching in high-school chemistry. W. C. Curtis. bibliog il J Chem Educ 18:293-5; 19:458-9 Je '41, O '42

Round table on the problem of teaching chemistry. T. A. Ashford and others. J Chem Educ 19:260-77 Je '42

Seven months of defense training in chemistry. A. M. Patterson. Chem & Eng N 20:240 F 25 '42

Seventy-five years of chemistry at Lehigh university. R. D. Billinger. il J Chem Educ 19:82-5 F '42

Terminal course in general chemistry. P. W. Selwood. J Chem Educ 19:470-3 O '42

Training of chemists in liberal arts colleges. C. R. Hoover. J Chem Educ 18:572-5 D '41

See also

Chemical education

Tables, calculations, etc.

Concentration change. G. H. Horne. Ind & Eng Chem 34:1042 S '42

Handbook of chemistry and physics, a ready-reference book of chemical and physical data. C. D. Hodgman and H. N. Holmes, eds. 25th ed 2503p $3.50 Chemical rubber pub. co, Cleveland '41

Higher chemical calculations. A. J. Mee. 184p $2 Chemical pub. co. '41

Terminology

Chemical semantics. S. Weiner. bibliog J Chem Educ 19:372-5 Ag '42

Glossary of terms used in petroleum chemistry. Oil & Gas J 41:44 Ag 13; 46 Ag 20; 42 Ag 27; 41 S 10; 52 S 17; 211 S 24; 40 O 1; 44 O 8 '42

Tests and scales

Committee of examinations and tests of the American chemical society. Science 95:295-6 Mr 20 '42

1940-1941 college chemistry testing program. T. A. Ashford. J Chem Educ 19:116-21 Mr '42

CHEMISTRY, Analytic

Analysis of sulphate black liquor; TAPPI tentative standard T 625 m-42. Paper Tr J 115:29-32 Ag 27 '42

Analytical possibilities of some hydroxybenzalrhodanines; *o*-, *m*-, and *p*-hydroxybenzalrhodanines and 3,4-dihydroxybenzalrhodanine. A. W. Scott and T. E. Robbins. bibliog Ind & Eng Chem Anal ed 14:206-7 Mr 15 '42

Chemical analysis by X-ray diffraction. M. L. Fuller. il Iron Age 149:65 Ap 9 '42

Decomposition temperatures of some analytical precipitates; barium carbonate. M. L. Nichols and R. H. Lafferty, jr. bibliog Ind & Eng Chem Anal ed 14:481-5 Je 15 '42

Determination of hydroxyl content of organic compounds; acetyl chloride as a reagent. B. E. Christensen, L. Pennington and P. K. Dimick. bibliog diags Ind & Eng Chem Anal ed 13:821-3 N 15 '41

CHEMISTRY, Analytic—*Continued*

Film balance as an analytical tool for biological and food research. G. E. Boyd and W. D. Harkins. bibliog il diags Ind & Eng Chem Anal ed 14:496-502 Je 15 '42

High-speed analysis and control of plating solutions. G. Jernstedt. il Electrochem Soc Trans 82 (preprint 17):177-93 O '42

Identification of organic compounds; the preparation of *p*-nitrobenzylpyridinium salts of aromatic sulfonic acids. E. H. Huntress and G. L. Foote. bibliog Am Chem Soc J 64:1017-20 My '42

Improved analytical methods; abstracts of some papers presented before American chemical society, Buffalo, N.Y. Can Chem & Process Ind 26:582-4 O '42

Modern concepts of analysis, with special reference to food. E. B. Hughes. il diags Chem & Ind 61:103-10 F 28 '42

Optical methods of chemical analysis. T. R. P. Gibb, jr. 391p $5 McGraw-Hill '42

Recent developments in analytical chemistry. bibliog Chem Age (Lond) 47:25-7+, 181-5, 355-9 Jl 11, Ag 22, O 24 '42

Simple methods of analyzing plating solutions. Metal Finishing 39:684-5 D '41

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

See also

Chromatographic analysis
Colorimetric analysis
Dye analysis
Electrochemical analysis
Gas analysis
Gravimetric analysis
Indicators and test papers
Iodometry
Metallurgical analysis
Microanalysis
Mineralogical analysis
Oil analysis
Particle concentration analysis
Plants—Chemical analysis
Polarography
Spectrum analysis
Sugar analysis
Textile analysis
Turbidimetric analysis
Volumetric analysis

also subdivision Analysis under names of substances, e.g.

Air—Analysis
Drugs—Analysis
Paper—Analysis
Petroleum—Analysis
Rocks—Analysis
Soap—Analysis
Steel—Analysis
Water—Analysis
Waxes—Analysis

Bibliography

Courses in advanced analytical chemistry; texts for courses in applied or technical analysis. P. J. Elving. J Chem Educ 19:517-21 N '42

Qualitative

Calculations of qualitative analysis. C. J. Engelder. 2d ed 174p $2 Wiley '42

Chemical equilibrium and qualitative analysis. D. W. Pearce. 289p $3.75 Purdue univ, Lafayette, Ind. '42

Chemistry of group 1: silver, mercury, lead; summary of results of recent research. A. B. Garrett. M. V. Noble and S. Miller. bibliog J Chem Educ 19:485-9 O '42

Color nomenclature in qualitative analysis; ISCC-NBS color names. L. P. Biefeld and M. Griffing. bibliog J Chem Educ 19:282-6, 307-12 Je-Jl '42

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Course of instruction in the qualitative chemical analysis of inorganic substances. A. A. Noyes. 10th ed rev 418p $2.75 Macmillan '42

Detecting basicity in slightly soluble materials. F. Feigl and C. P. J. da Silva. bibliog Ind & Eng Chem Anal ed 14:316-19 Ap 15 '42

Detection of the mercuric ion in semimicro qualitative analysis. M. G. Burford and A. F. Wichrowski. bibliog J Chem Educ 19:333-6 Jl '42

Determination of small amounts of gold with stannous chloride. C. G. Fink and G. L. Putnam. bibliog Ind & Eng Chem Anal ed 14:468-70 Je 15 '42

Indicator method of classifying acids and bases in qualitative organic analysis. D. Davidson. bibliog J Chem Educ 19:221-6 My '42; Correction. 19:532 N '42

Introduction to semimicro qualitative chemical analysis. L. J. Curtman. 377p $2.75 Macmillan '42

Introductory qualitative analysis using semimicro techniques. R. B. Corey and M. J. Murray. 67p pa $1 M. J. Murray, Illinois inst. of technology, Chicago '41

Iowa system of semimicro analysis. J. Cornog. 192p $2 Jacob Cornog, Univ. of Iowa, Iowa City, Iowa '42

Isolation and identification of the resinous binder in water paints. R. W. Stafford. bibliog diags Ind & Eng Chem Anal ed 14:694-9 S 15 '42

Microtechnique of organic qualitative analysis; identification of compounds containing nitrogen. C. R. García and F. Schneider. bibliog diags Ind & Eng Chem Anal ed 14:94-7 Ja 15 '42

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42

Organic reagents in inorganic analysis. P. von Stein. 242p $4.50 Chemical pub. co. '42

Qualitative analysis of microgram samples; general technique and confirmatory tests. A. A. Benedetti-Pichler and M. Cefola. bibliog il diags Ind & Eng Chem Anal ed 14:813-16 O 15 '42

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

Short course in qualitative analysis. F. E. Brown. rev ed 367p pa $2.60 Appleton-Century '42

Solubility of strontium chromate and the detection of strontium. T. W. Davis. bibliog Ind & Eng Chem Anal ed 14:709-11 S 15 '42

Tabulated diffraction data for cubic isomorphs. L. K. Frevel. bibliog Ind & Eng Chem Anal ed 14:687-93 S 15 '42

Textbook of elementary qualitative analysis. C. J. Engelder. 3d ed 344p $2.50 Wiley '42

Study and teaching

Semimicro scheme of qualitative analysis. J. T. Dobbins and J. A. Southern. J Chem Educ 19:479-82 O '42

Quantitative

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

Analytical chemistry. F. P. Treadwell. 9th ed rev & enl and tr. by W. T. Hall. v2 806p $6 Wiley '42

Application of a calculating board to quantitative spectro-analysis. C. King. il Opt Soc Am J 32:112-15 F '42

Content of *l*-pimaric acid in pine oleoresin; improved methods for its determination. E. E. Fleck and S. Palkin. bibliog Ind & Eng Chem Anal ed 14:146-7 F 15 '42

Determination of salts in crude oil. C. A. Neilson, J. S. Hume and B. H. Lincoln. Ind & Eng Chem Anal ed 14:464-5 Je 15 '42

Determination of sulfur; accuracy and precision of several methods. W. Rieman, 3d and G. Hagen. Ind & Eng Chem Anal ed 14:150-1 F 15 '42

How to solve problems in quantitative analysis. S. B. Arenson. 89p pa 75c Crowell '42

Hydrofluosilicic acid method for determination of quartz. F. H. Goldman. bibliog diags Ind & Eng Chem Anal ed 13:789-91 N 15 '41

Lower aliphatic alcohols; application of the Zerewitinoff determination. W. Hollyday and D. L. Cottle. bibliog diag Ind & Eng Chem Anal ed 14:774-6 O 15 '42

CHEMISTRY, Analytic—Quantitative—*Cont.*

Micromethods of quantitative organic analysis. J. B. Niederl and V. Niederl. 2d ed 347p $3.50 Wiley '42

Photometric method for estimation of minute amounts of mercury. A. E. Ballard and C. D. W. Thornton. bibliog il diags Ind & Eng Chem Anal ed 13:893-7 D 15 '41

Quantitative analysis; a theoretical approach. W. Rieman, J. D. Neuss and B. Naiman. 2d ed 496p bibliog(p445-9) $3.50 McGraw-Hill '42

Quantitative analysis of mixtures of thiosulphate and sulphite. K. G. A. Pankhurst. Chem & Ind 61:74-5 F 7 '42

Quantitative determination of cellulose in raw cotton fiber; a simple and rapid semimicro method. J. H. Kettering and C. M. Conrad. bibliog Ind & Eng Chem Anal ed 14:432-4 My 15 '42

Routine quantitative spectrographic analysis of magnesium alloys. F. A. Fox and J. Nelson. il diags Soc Chem Ind J 60:278-86 N '41

Separation of bismuth from lead with ammonium formate. S. Kallmann. bibliog Ind & Eng Chem Anal ed 13:897-900 D 15 '41

See also

Colorimetric analysis
Electrochemical analysis
Gravimetric analysis
Volumetric analysis

Study and teaching

Courses in advanced analytical chemistry; texts for courses in applied or technical analysis. P. J. Elving. J Chem Educ 19:517-21 N '42

Problems of teaching quantitative analysis; students' laboratory records. M. G. Mellon and D. R. Mellon. J Chem Educ 19:33-5 Ja '42

Tables, calculations, etc.

Graphic method of studying the separation of mixtures by immiscible solvents. L. F. Knudsen and D. C. Grove. Ind & Eng Chem Anal ed 14:556-7 Jl 15 '42

CHEMISTRY, Biological. See Biological chemistry

CHEMISTRY, Industrial. See Chemistry, Technical

CHEMISTRY, Inorganic

Collateral readings in inorganic chemistry; second series. L. A. Goldblatt, ed. 198p pa $1.40 Appleton-Century '42

General inorganic chemistry. M. C. Sneed and J. Lewis Maynard. 1166p $4.50 Van Nostrand '42

Inorganic chemical technology. W. L. Badger and E. M. Baker. 2d ed 237p $2.50 McGraw-Hill '41

Intermediate inorganic chemistry. J. W. Mellor. new ed rev 690p $3 Longmans '41

Bibliography

British chemical and physiological abstracts; B, I, General and inorganic industrial chemistry. Published monthly by Chemical society, London £ 1 10s

CHEMISTRY, Medical and pharmaceutical

Chemistry of organic medicinal products. G. L. Jenkins and W. H. Hartung. 457p pa $3.80 John S. Swift co, 2100 Locust st, St Louis '41

Synopsis of applied pathological chemistry. J. E. Andes and A. G. Eaton. 428p $4 C. V. Mosby co, St Louis '41

See also

Alkaloids
Anesthetics
Anesthetics, Local
Antiseptics
Antispasmodics
Chemotherapy
Disinfection and disinfectants
Drugs
Hormones
Hypnotics
Immunity
Mydriatics
Narcotics
Pharmacology
Vaccines
Vitamins

CHEMISTRY, Organic

Chemistry of organic medicinal products. G. L. Jenkins and W. H. Hartung. 457p pa $3.80 John S. Swift co, 2100 Locust st, St Louis '41

Determination of hydroxyl content of organic compounds; acetyl chloride as a reagent. B. E. Christensen, L. Pennington and P. K. Dimick. bibliog diags Ind & Eng Chem Anal ed 13:821-3 N 15 '41

Electron-sharing ability of organic radicals. F. A. Landee and I. B. Johns. bibliog diags Am Chem Soc J 63:2891-900 N '41

Electron-sharing ability of organic radicals; the effect of the radicals on the ionizing power of organic solvents. F. J. Moore and I. B. Johns. Am Chem Soc J 63:3336-8 D '41

Industrial research in the United States during 1941; novel methods and materials in organic chemical technology. W. A. Hamor. il Chem & Eng N 20:10-12 Ja 10 '42

Introductory organic chemistry, with certain chapters of biochemistry. E. Wertheim. 482p bibliog(p449) $3 Blakiston '42

Modern theories of organic chemistry. H. B. Watson. 2d ed 267p $5 Oxford '41

Organic analytical reagents. J. H. Yoe and L. A. Sarver. 339p bibliog(p263-326) $4 Wiley '41

Organic chemistry. R. C. Fuson and H. R. Snyder. 506p $3.50 Wiley '42

Organic chemistry; lectures for the advanced student. R. C. Fuson. 2d ed, 379p $3.30 Follett's bookstore, 629 E. Green st, Champaign, Ill. '41

Organic reactions. R. Adams, ed. v 1 391p $4 Wiley '42

Organic syntheses. L. I. Smith, ed. v 22 114p $1.75 Wiley '42

Organic syntheses; collective volume I, being a revised edition of annual volumes I-IX. 580p $6 Wiley '41

Outline of organic chemistry. E. F. Degering. 4th ed 386p pa $1.25 Barnes & Noble, New York '41

Semimicro and macro organic chemistry; a laboratory manual. N. D. Cheronis. 388p bibliog(p368) $2.75 Crowell '42

Shorter course in organic chemistry. J. C. Colbert. 2d ed 355p $3.75 Appleton-Century '42

System of organic chemistry. C. E. May. 222p $2.55 Clarence Earl May, Bloomington, Ind. '41

See also

Acids, Fatty
Acids, Organic
Alcohols
Aldehydes
Alkaloids
Amines
Carbohydrates
Carbon
Cellulose
Condensation, Chemical
Cyclic compounds
Essential oils
Esters
Ethers
Glucosides
Hydrocarbons
Ketones
Proteins
Radicals (chemistry)
Stereochemistry
Sugars

also Synthetic organic chemical manufacturers association

Bibliography

British chemical and physiological abstracts; B, II, Industrial organic chemistry. Published monthly by Chemical society, London £ 1 10s

Laboratory manuals

Simplified system of organic identification. J. L. B. Smith. 48p $1.50 Chemical pub. co. '42

CHEMISTRY, Physical and theoretical

Elementary physical chemistry. M. Randall and L. E. Young. 455p $4.50 Randall and sons, Berkeley, Calif. '42

Elementary physical chemistry. H. S. Taylor and H. A. Taylor. 3d ed 551p $3.75 Van Nostrand '42

Introduction to physical chemistry. A. Findlay. 2d ed rev & enl 582p $3.75 Longmans '42

Physical chemistry. F. T. Gucker, jr. and W. B. Meldrum. 683p $4 Am. book co. '42

Physical chemistry for students of biochemistry and medicine. E. S. West. 368p $5.75 Macmillan '42

CHEMISTRY, Physical and theoretical—*Cont.*

Practical physical chemistry. A. Findlay. 7th ed rev & enl 335p $3 Longmans '42

Treatise on physical chemistry. H. S. Taylor and S. Glasstone, eds. 3d ed 5v v 1 679p $7.50 Van Nostrand '42

X-ray absorption structure as a tool in physics and chemistry. S. T. Stephenson. bibliog J Ap Phys 13:142-6 Mr '42

See also

Absorption
Activation
Addition compounds
Adhesion
Adsorption
Atomic weights
Atoms
Boiling points
Catalysis
Catalysts
Chemical bonds
Chemical equilibrium
Chemical reaction
Colloids
Condensation, Chemical
Coordination (chemistry)
Crystallization
Crystallography
Dissociation
Electrolysis
Electrolytes
Electrons
Emulsions
Equation of state
Evaporation
Fluorescence
Freezing points
Gases
Ionization, Electrolytic
Ionization, Gaseous
Ions
Isomerism
Isotopes
Melting points
Mesomerism
Mixtures
Molecular compounds
Molecular rearrangements
Molecular weights
Molecules
Nascent state
Orientation (chemistry)
Photochemistry
Photosynthesis
Polymers
Quantum theory
Resonance (chemistry)
Solids
Solubility
Solution (chemistry)
Stereochemistry
Stoichiometry
Surface phenomena
Surface tension
Thermochemistry
Thermodynamics
Valence
Vapor pressure
Volatility
Wave mechanics

Laboratory manuals

Experimental physical chemistry. W. G. Palmer. 321p $2.75 Macmillan '42

CHEMISTRY, Physiological. See Physiological chemistry

CHEMISTRY, Technical

Chemistry entering new worlds. S. B. Self. Barron's 22:16-18 S 21 '42

Chemistry of engineering materials. R. B. Leighou. 4th ed 645p $4.50 McGraw-Hill '42

Chemistry of non-metals; A.C.S. symposium. Can Chem & Process Ind 25:638-40 D '41

Conditions in, and some war problems of, the heavy chemical industry in 1941. P. Parrish. bibliog il diags Chem Age (Lond) 46:15-20+ Ja 10 '42

Creative chemistry, descriptive of recent achievements in the chemical industries. E. E. Slosson. new ed rev 341p bibliog(p324-36) $1.39 Grosset & Dunlap, New York '42

Du Pont, one hundred and forty years. W. S. Dutton. 396p $3 Scribner '42

Fine chemical industry as a servant of the community. T. H. Durrans. Chem & Ind 61:211-14, 219-22 My 9-16 '42

Handbook of feedwater treatment; feedwater chemistry; data on chemical compounds, etc. producing reactions in water treatment. Power 85:884-96 D '41

Industrial chemistry; an elementary treatise for the student and general reader. E. R. Riegel. 4th ed 861p $5.50 Reinhold pub. corp. '42

Industrial chemistry and post war conditions. S. A. Brazier. Chem & Ind 60:891-4 D 20 '41

Industrial chemistry of colloidal and amorphous materials. W. K. Lewis, L. Squires and G. Broughton. 540p $5.50 Macmillan '42

Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:77-109 Ja 25 '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:1-30, 41-4 Ja 10 '42

Inorganic chemical technology. W. L. Badger and E. M. Baker. 2d ed 237p $2.50 McGraw-Hill '41

Polyhydric alcohol esters in our war effort. J. W. Daum. il Chem Ind 51:522-3 O '42

Recent advances of catalysis in chemical process industries; recent applications. bibliog il Chem & Met Eng 49:106-10 O '42

Sulfur dioxide; sources, production, uses. H. F. Johnstone. il Ind & Eng Chem 34:1017-28 bibliog(115 references, p1027-8) S '42

Sulfur's role in industry. W. W. Duecker and E. W. Eddy. il Chem Ind 50:174-82 F '42

This chemical age; the miracle of man-made materials. W. Haynes. 385p bibliog (p374-5) $3.50 Knopf '42

See also

Acetylene
Acid resisting materials
Alcohol
Alcohols
Alkalies
Alloys
Ammonia
Beverages
Blast furnace gas
Bleaching
Cellulose
Cement
Ceramics
Chemical engineering
Chemical industries
Chemical patents
Chemicals
Chemurgy
Clay
Clay industries
Coal distillation
Coke-oven gas
Corrosion and anticorrosives
Cosmetics
Cyanide process
Dehydration
Distillation
Dyes and dyeing—Chemistry
Essential oils
Explosives
Fertilizers
Filters and filtration (technical chemistry)
Fuel
Gas
Gas manufacture
Glass manufacture
Lacquer and lacquering
Leather
Metallurgy
Oils and fats
Ore treatment
Paint
Paper
Paper making
Paper making materials
Petroleum—Chemistry
Petroleum distillation
Petroleum refining
Plastic materials
Porcelain
Pottery
Rayon
Refractory materials
Refrigerants
Resinous products
Rubber
Soap
Soap, Metallic
Soap manufacture
Solvents
Soybeans
Sugar
Sulfuric acid
Synthesis
Tanning materials
Textile chemistry
Unit processes
Varnish and varnishing
Vulcanization
Waste products
Water purification
Wood distillation
Wood preservation

Bibliography

Bibliography of some achievements in chemistry, 1930-1941. L. McKinley. 60p pa 15c Univ. of Wichita, Wichita, Kan. '42

British chemical and physiological abstracts; B, I, General and inorganic industrial chemistry. Published monthly by Chemical society, London £ 1 10s

British chemical and physiological abstracts; B, II, Industrial organic chemistry. Published monthly by Chemical society, London £ 1 10s

CHEMISTRY buildings

New chemistry buildings at Glasgow. F. R. Storrie. il Chem & Ind 60:842-5 N 29 '41

CHEMISTRY teachers

Chemistry teachers and the war. A. M. Patterson. J Chem Educ 19:166 Ap '42

See also

Crossley, Moses
Leverock

CHEMISTS

Chemist in three wars. O. Eisenschiml. Science 96:347-52, 367-73 O 16-23 '42; Abstract. Chem & Met Eng 49:171-4 N '42

Chemists and the national defense. J. B. Conant. News Ed 19:1237-8 N 25 '41; Same. Science 94:563-4 D 12 '41

Chemist's chance. O. Eisenschiml. Chem & Eng N 20:368-9 Mr 25 '42; Discussion. 20:746-7 Je 10 '42

Chemist's chance, but is the chemist ready? H. E. Cory. Chem & Eng N 20:1299 O 25 '42

CHEMISTS—*Continued*

Chemists needed in production army. News Ed 19:1464 D 25 '41

Chemist's place in civilian defense. A. Gibson. Chem & Eng N 20:584-7 My 10 '42

Economic status of the members of the American chemical society; committee report. Chem & Eng N 20:1289-93 O 25 '42

Employer-employee relationships for professional chemists as recommended by the American chemical society. News Ed 19:1442-4 D 25 '41

Fathers and sons in chemistry, Missouri's Fosters. Chem & Eng N 20:325 Mr 10 '42

Future of the chemical profession. W. Harrison. Chem & Ind 61:124-5 Mr 7 '42; Discussion. 61:145-6, 165-6, 183-5 Mr 21, Ap 4, 18 '42

Industry's interest in the professional training of chemists. W. C. Moore. J Chem Educ 18:576-80 D '41

Manpower. Chem & Eng N 20:788-90 Je 25 '42

National labor board decision upholds professional status of chemists. Chem & Eng N 20:165-9 F 10 '42

Production army vs. the combat army; demand for chemists and chemical engineers; college and industrial questionnaires. Chem & Eng N 20:157-60 F 10 '42

Profession of chemistry; comments on report of Liverpool conference of Institute of chemistry of 1923. W. Harrison. Chem & Ind 61:215 My 9 '42

Professional status of chemists upheld by the National labor relations board. Science 95:268-9 Mr 13 '42

Shortage of technically trained chemists. Science 95:189 F 20 '42

Some early American students of chemistry at the University of Edinburgh, 1750-1800. M. E. Kapp. bibliog J Chem Educ 18:553-9 D '41

Some Irish chemists. Chem & Ind 60:744 O 18 '41

Ten questions that students of chemistry will be asking, and their answers. J Chem Educ 19:90 F '42

War service of chemists and chemical engineers. Chem & Eng N 20:837-9 Jl 10 '42

Without fame; the romance of a profession. O. Eisenschiml. 368p $3.50 Alliance book corp, 270 Madison av, New York '42

See also

Agricultural chemists
Chemical education
Women as chemists

also names of chemists, e.g.

Boerhaave, Herman
Castner, Hamilton Young
Crossley, Moses Leverock
Foote, Harry Ward
Frolich, Per K.
Glauber, Johann Rudolf
Kingsley, E. D.
Morgan, Sir Gilbert Thomas
Morrison, Abram Cressy
Norton, Thomas Herbert
Noyes, William Albert
Ruff, Otto
Slosson, Edwin Emery
Williams, Robert R.
Williams, Roger John
Willstätter, Richard

Canada

Questionnaire for chemists. G. A. Purdy. Can Chem & Process Ind 26:331-2 Je '42

CHEMOTHERAPY

Antibacterial properties of protamine and histone. B. F. Miller and others. bibliog Science 96:428-30 N 6 '42

Anti-bacterial substances allied to sulphanilamide. T. Dewing and others. Chem Soc J p239-44 Ap '42

Anti-bacterial substances from moulds; citrinin, a metabolic product of penicillium citrinum Thom. H. Raistrick and G. Smith. Chem & Ind 60:828-30 N 22 '41

Anti-bacterial substances from moulds; penicillic acid, a metabolic product of penicillium puberulum Bainier and penicillium cyclopium Westling. A. E. Oxford, H. Raistrick and G. Smith. Chem & Ind 61:22-4 Ja 10 '42

Anti-bacterial substances from moulds; some observations on the bacteriostatic powers of the mould products citrinin and penicillic acid. A. E. Oxford. Chem & Ind 61:48-51 Ja 24 '42

Carboxylic acid derivatives of 4 : 4′-diaminodiphenylsulphone. W. H. Gray and B. C. Platt. Chem Soc J p42-5 Ja '42

Chemotherapeutic action of a N-phosphoryl derivative of 4-4′-diaminodiphenylsulfone. M. I. Smith, S. M. Rosenthal and E. L. Jackson. bibliog Pub Health Rep 57:1534-42 O 9 '42

Chemotherapeutic comparison of the trypanocidal action of some aromatic diamidines. J. N. Ashley and others. Chem Soc J p103-16 F '42

Chemotherapeutic studies in the acridine series; the chloroaminoacridines. F. R. Bradbury and W. H. Linnell. Chem Soc J p377-81 Je '42

Chemotherapy; comment on two lectures by Dr G. S. Whitby. Chem & Ind 60:789-90 N 8 '41

Chemotherapy, with particular reference to the sulphonamides. G. S. Whitby. Can Chem & Process Ind 26:107-12 F '42

Conquest of bacteria, from salvarsan to sulphapyridine. F. S. Taylor. 175p $2 Alliance book corp, New York '42

Derivatives of aminoisoquinolines. J. J. Craig and W. E. Cass. bibliog Am Chem Soc J 64:783-4 Ap '42

Dicarboxylic acid derivatives of sulfonamides. M. L. Moore and C. S. Miller. bibliog Am Chem Soc J 64:1572-6 Jl '42

Dyes and dye chemistry fight disease. G. S. Whitby. Textile Col 64:119-21 Mr '42

Germ chemicals from the soil. J. Stafford. Science 95:sup12 Ja 2 '42

Heterocyclic derivatives related to sulfanilamide; the quinoline analog of sulfanilamide and derivatives. H. Urist and G. L. Jenkins. bibliog Am Chem Soc J 63:2943-4 N '41

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:12-13 Ja 10 '42

Investigations at Mellon institute 1941-42; investigations in chemotherapy. il Chem & Eng N 20:458-9 Ap 10 '42

New bodies for old; the story of chemical balance. R. G. Fear. 189p bibliog(p186-9) $3; pa $2.50 Ralph Gordon Fear, 19600 Sherman way, Reseda, Calif. '41

2-Phenyloxazole and ortho-substituted derivatives. W. E. Cass. bibliog Am Chem Soc J 64:785-7 Ap '42

Preparation and properties of some phthiocol inner complexes. B. P. Geyer and G. M. Smith. bibliog Am Chem Soc J 63:3071-5 N '41

Studies in chemotherapy; sulfanilamidopyrimidines. R. O. Roblin, jr, P. S. Winnek and J. P. English. bibliog Am Chem Soc J 64:567-70 Mr '42

Studies in chemotherapy; sulfanilylcyanamide and related compounds. P. S. Winnek and others. bibliog Am Chem Soc J 64:1682-5 Jl '42

Studies of the acute diarrheal diseases; sulfaguanidine in the control of Shigella dysenteriae infections. A. V. Hardy and others. bibliog Pub Health Rep 57:529-35 Ap 10 '42

Substituted 2-sulfonamido-5-aminopyridines. W. T. Caldwell and E. C. Kornfeld. bibliog Am Chem Soc J 64:1695-8 Jl '42

(*p*-Sulfamylphenylamino-)-pyrimidines. G. de Sütö-Nagy and T. B. Johnson. Am Chem Soc J 63:3234-5 N '41

Sulfanilamide and related chemotherapeutic agents. L. H. Amundsen. bibliog J Chem Educ 19:167-71 Ap '42

Sulfanilamide effect of substances devoid of sulfo groups. J. Hirsch. bibliog Science 96:139-40 Ag 7 '42

Sulfanilamido derivatives of nitrogen bases from California petroleum. L. M. Schenck and H. R. Henze. bibliog Am Chem Soc J 64:1499-1501 Jl '42

CHEMOTHERAPY—*Continued*

N^1-sulfanilylamino-alkyl-pyrimidines. G. W. Raiziss and M. Freifelder. bibliog Am Chem Soc J 64:2340-2 O '42

2-Sulfanilyl-aminothiazoline. G. W. Raiziss and L. W. Clemence. Am Chem Soc J 63: 3124-6 N '41

Syntheses in the quinoline series; 2,4-disubstituted quinoline derivatives. F. J. Buchmann and C. S. Hamilton. bibliog Am Chem Soc J 64:1357-60 Je '42

See also
Metanilamide
Sulfanilamide
Sulfonamides

Bibliography

Bibliography of pharmacology and chemotherapy. Published monthly by Hooker scientific library, Central college, Fayette, Mo. ($3.50)

CHEMURGY

Annual Chemurgic conference, 8th, Chicago, March 25-27. Oil Paint & Drug Rep 141:3+ Mr 30 '42

Chemistry of butadiene from farm crops. Nat Pet N 34 pt 2:R385-6 O 28 '42

Chemurgic digest. Published semimonthly by the National farm chemurgic council, 50 West Broad Tower, Columbus, Ohio

Chemurgy's opportunity; report of annual Chemurgic conference. Chem Ind 50:508-10, 517+ Ap '42

Developments in the synthetic rubber situation; rubber from grain. Rubber Age 51: 409+ Ag '42

Ethyl benzene plan provides agricultural-alcohol outlet. diags Oil & Gas J 41:14-15 Ag 6 '42

Latest developments in milkweed floss; B. Berkman promotes cultivation in Michigan; seeds, fibers and floss utilized. L. Stouffer. il Rayon 23:603-4 O '42

Miracle beans. il Sci Am 167:216-18 N '42

New source of synthetic rubber; sugar cane, sweet potatoes and peanuts from Everglades. il Manuf Rec 111:24-5 My '42

Oil on the bush; providing industry with import substitutes. Business Week p30-2 Ap 4 '42

Pioneers of plenty; the story of chemurgy. C. Borth. new & enl wartime ed 410p $3.50 Bobbs '42

Plastics from agricultural materials. O. R. Sweeney and L. K. Arnold. bibliog il diags Iowa Eng Exp Sta (Ames) Bul 154: 1-52 '42

Survey of Canadian research on the utilization of farm products. W. D. McFarlane, comp. 76p Nat. chemurgic committee, Canadian chamber of commerce, Montreal '41

Synthetics from farm crops; abstract. L. M. Christensen. India Rubber W 105:477 F '42

Tobacco does it; research yields new uses for low-grade leaf, including fiber board and acids. il Business Week p58-60 F 28 '42

War essentials from agricultural materials; associated opportunities in research, manufacturing and farming. W. D. MacFarlane. Can Chem & Process Ind 26:388-92 Jl '42

War uses of farm products. H. G. Knight. il Manuf Rec 111:24-5, 50+ Ag '42

See also
Corn products
Synthetic products

CHÉRADAME, André, 1871-

Chéradame's plan. il Fortune 26:82-3 O '42

CHERRIES

Pickers as usual; Michigan tart cherry crop harvested. Business Week p88-90 Jl 25 '42

CHESAPEAKE and Ohio railway

Certificates offered. Comm & Fin Chr 155: 499 Ja 31 '42

Chesapeake & Ohio for war and peace. A. Jansen. map Barron's 22:9 Jl 13 '42

Control regained by Alleghany corp. Comm & Fin Chr 155:1673 Ap 27 '42

Railroad securities. Comm & Fin Chr 155: 2021+ My 28 '42

Traffic statistics and general income account for calendar years, 1938-1941. Comm & Fin Chr 156:76 Jl 6 '42

CHESAPEAKE bay

Controlling pollution of oyster-growing waters of Chesapeake bay. G. L. Hall. il maps Civil Eng 11:715-17 D '41

CHESAPEAKE corporation of Virginia

Stock offered. Comm & Fin Chr 155:596 F 7 '42

CHESLEY, John O.

Portrait. Sci Am 167:153 O '42

CHEST

Chest X-rays in the physical examination. R. N. Downs. il Nat Safety N 46:24-5 S '42

CHESTER, Illinois

Bridges

Highway bridge completed at Chester. il Eng N 129:391 S 17 '42

Spanning the Mississippi at Chester. il Eng N 128:446 Mr 19 '42

CHEWING gum

Production of chicle and jelutong. il India Rubber W 106:136+ My '42

Advertising

Daring change in distribution pattern caused by war conditions; advertising and selling chewing gum to war plants. P. K. Wrigley. il Ptr Ink 200:13-15+ Jl 31 '42

CHICAGO

Factors entering into the determination of allowable loads on Chicago subsoils. R. B. Peck. diags W Soc E J 47:69-78 Ap '42

History of public assistance in Chicago, 1883-1893. J. Brown. 183p pa $1.50 Univ. of Chicago press '41

Long-range engineering planning for Chicago. W. W. DeBerard. il Civil Eng 12:183-6 Ap '42

Patterns and recent trends of Chicago's outlying business centers. H. M. Mayer. maps J Land & Pub Util Econ 18:4-16 F '42

Population trends in Chicago and its metropolitan region. H. Hoyt. map W Soc E J 46:288-310 D '41

See also
Housing—Chicago
Newspapers—Chicago

Bridges

Design and construction of North State Street bridge. il diags Civil Eng 12:140-2 Mr '42

Studies made to convert Chicago's fixed bridges. Eng N 128:896 Je 4 '42

Fire, 1871

Study of 1871 Chicago fire. H. A. Musham. Nat Underw 46:15 F 19 '42

Galleries and museums

See also
Field museum of natural history

Industries

Labor aspects of the Chicago milk industry. M. Gresham and J. W. Bloch. bibliog Monthly Labor R 54:1283-1309 Je '42

Law department

Administration of municipal legal services: the Chicago law department. R. W. Siebenschuh. 58p pa $1.50 Public administration service, 1313 E. 60th st. Chicago '42

Railroads

Chicago & north western streamlines its streamliner servicing at Chicago terminal. il diags plan Ry Age 112:1068-74+ My 30 '42

Modern entrance-exit interlocking replaces mechanical plant on Indiana Harbor belt. il plans Ry Age 112:294-7 Ja 31 '42

Rapid transit

Conserving vital war transportation in Chicago metropolitan area. P. Harrington. il Mass Transportation 38:237-9 S '42

Rebuilding the world's busiest intersection; Chicago surface lines has to reconstruct important trackwork. il Transit J 86:68-70 F '42

CHICAGO—Rapid transit—*Continued*

Track rebuilding under difficult conditions. il Mass Transportation 38:206 Ag '42

WAYH on the air! short-wave FM radio installation provides mobile emergency supervision and repair service for Chicago surface lines. il map Transit J 86:236-8 Jl '42

See also

Chicago—Subways

Chicago surface lines

Sewerage

Sewer squad organization for air raids. Eng N 128:423-4 Mr 12 '42

Subways

Application of welding in the construction of the Chicago subway. G. S. Salter. il Welding J 21:165-9 Mr '42

Averting a jam; subway on State st. will be finished this winter. Business Week p22+ Jl 11 '42

Chicago River subway crossing. G. S. Salter and H. J. Bartz. il Civil Eng 12:479-82 S '42

Chicago subway station street decking. il diags plans Eng N 128:854-8 My 21 '42

Chicago's first subway. C. E. DeLeuw. il map Mass Transportation 38:146-55 Je '42

Coordinating design and construction on Chicago subway. P. F. Girard. il plan Civil Eng 12:143-6 Mr '42

Earth pressure measurements in open cuts. R. B. Peck. diags Am Soc C E Proc 68:900-28 Je '42; Discussion. 68:1216-18 S '42

Electric facilities and operating plan for the first Chicago subway. C. E. De Leuw. il plans Elec Eng 61:Trans 780-7 N '42

Liner-plate tunnels on the Chicago (Ill.) subway. K. Terzaghi. diags map Am Soc C E Proc 68:862-99 Je '42; Discussion. 68:1221-4 S '42

Open-cut soil pressures on Chicago subway. R. S. Knapp and R. B. Peck. il diags Eng N 127:739-42 N 20 '41

Shield tunnels of the Chicago subway. K. Terzaghi. diags plans Boston Soc C E J 29:163-210 Jl '42

Underground railways. il diags plans Engineer 172:268-70, 288-90, 317-19 O 24-N 7 '41

Water supply

Air-raid organization measures for water supply protection; developed by Chicago's bureau of engineering. il diags Eng N 128:990-3 Je 18 '42

Chicago civilian defense plans for water safety control. A. E. Gorman. Am Water Works Assn J 34:1343-56 S '42

Efficiency maintenance in Chicago pumping stations. F. J. McDonough, P. Lippert and J. M. Veggeberg. Am Water Works Assn J 34:1405-14 S '42

Features of the South District filtration project of Chicago. R. E. Thompson. il Water & Sewage 80:26-7+ Ag '42

South District filtration plant of the city of Chicago. F. G. Gordon and others. Am Water Works Assn J 34:1381-1404 S '42

South District filtration project, Chicago. flow diags il diags plans map Eng N 128:995-1023 Je 18 '42

CHICAGO alloy products company

WPB uses writ to get inventory data. Oil Paint & Drug Rep 141:3+ F 23 '42

CHICAGO & Alton railroad

Railroad securities. Comm & Fin Chr 156:877 S 10 '42

CHICAGO and eastern Illinois railroad

Annual report. Comm & Fin Chr 155:1916-17 My 18 '42

CHICAGO and north western railway

Annual report. Comm & Fin Chr 155:1596 Ap 20 '42

Equipment trust offered. Comm & Fin Chr 155:915 Mr 2 '42

May deposit $5,000,000 bonds with trustee of equipment issue. Comm & Fin Chr 155:2364 Je 22 '42

Railroad securities; Chicago & North Western income 4½s. Comm & Fin Chr 154:1013 N 13 '41

Tax loss looms in C.&N.W. plan. Ry Age 111:1055-6 D 20 '41

CHICAGO and southern air lines

To expand. Comm & Fin Chr 154:1491 D 13 '41

CHICAGO board of underwriters

Chicago board recasting; relinquishes rating function, continues as trade group. Nat Underw 46:1 Ja 15; 3 Ja 22; 5 Ja 29 '42

Chicago board warns class 2, 3; new enforcement program instituted. Nat Underw 46:8 Mr 5 '42

Complete Chicago board changes. Nat Underw 46:1+ Ap 30 '42

CHICAGO, Burlington and Quincy railroad

Burlington bonds at lowest levels in years. A. Jansen. Barron's 22:19 Ja 5 '42

Burlington West; a colonization history of the Burlington railroad. R. C. Overton. 583p bibliog(p539-55) $4.50 Harvard univ. press '41

Secondary bond offering. Comm & Fin Chr 155:2181 Je 8 '42

CHICAGO drainage canal

Lakes to the sea; navy unlocks bridges over Chicago drainage canal, providing outlet for merchant and naval craft from Great Lakes. il Business Week p56+ O 31 '42

CHICAGO great western railway

Condensed general balance sheet, 1940 and 1941. Comm & Fin Chr 155:1830 My 11 '42

Rail securities for appreciation. S. Devlin. Mag of Wall St 70:570 S 5 '42

CHICAGO, Indianapolis and Louisville railway

Modified reorganization plan filed. Comm & Fin Chr 155:499, 596-8 Ja 31, F 7 '42

CHICAGO, Milwaukee, St Paul & Pacific railroad

Not to appeal payment. Comm & Fin Chr 155:2004 My 25 '42

Railroad securities; General mortgage bonds. Comm & Fin Chr 155:205 Ja 15 '42

United States Supreme court hears plea on plan. Comm & Fin Chr 156:1466 O 26 '42

CHICAGO, north shore and Milwaukee railroad

First mortgage bonds, 1936, 1955 and 1956. Comm & Fin Chr 156:4+ Jl 2 '42

Reorganization asked. Comm & Fin Chr 155:1504 Ap 13 '42

CHICAGO pneumatic tool company

Another look. Mag of Wall St 69:153; 70:28 N 15 '41, Ap 18 '42

Another look. Mag of Wall St 71:37 O 17 '42

CHICAGO, Rock Island & Pacific railway

Annual report. Comm & Fin Chr 155:1917 My 18 '42

Court orders show cause why reorganization should not be approved. Comm & Fin Chr 154:1698 D 27 '41

E. M. Durham jr. is succeeded by John D. Farrington. Ry Age 113:57+ Jl 11 '42

James E. Gorman passes on; long time head of Rock Island system. Ry Age 112:693-4 Ap 4 '42

Railroad securities. Comm & Fin Chr 155:1229 Mr 26 '42

Railroad securities. Comm & Fin Chr 156:1069 S 24 '42

CHICAGO, St Paul, Minneapolis and Omaha railway

Condensed income account, 1940 and 1941. Comm & Fin Chr 155:1597 Ap 20 '42

CHICAGO, south shore and South Bend railroad

New common stock has good earning power and liberal dividend rate. Comm & Fin Chr 156:172 Jl 16 '42

CHICAGO stock exchange

Chicago stock exchange appoints committees. Comm & Fin Chr 155:2196 Je 11 '42

Record of prices for 1941, monthly; tabulation. Comm & Fin Chr 155:470-2 Ja 29 '42

Revises program due to war. Comm & Fin Chr 155:2018 My 28 '42

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

CHICAGO sun
Battle for Chicago; Marshall Field's new Chicago Sun. il Fortune 25:72-7+ F '42
Chicago sunrise. il Business Week p60 D 13 '41
Chicago's new morning paper, the Sun, makes format news; styled by G. P. Farrar. D. May. il Inland Ptr 108:39-43 Ja '42
Sun reckoning; new Chicago paper gives voluntary rebates to advertisers. Business Week p67-8+ Jl 25 '42
Sun scoreboard. Business Week p46+ Ja 17 '42

CHICAGO surface lines
Amazing achievement of the Chicago city railway and the Chicago railways companies. W. Dyckman. Comm & Fin Chr 155: 1522+ Ap 16 '42; Correction. 155:1610+ Ap 23 '42
Court order clears way for modernizing transportation system; new company authorized. Comm & Fin Chr 155:1010 Mr 9 '42
Federal judge declares plan should be declared operative and remaining necessary steps taken. Comm & Fin Chr 155:2455 Je 29 '42
Reorganization plan. Comm & Fin Chr 155: 1673-4 Ap 27 '42
Traction plan amendments. Comm & Fin Chr 154:1592 D 20 '41
Valuation set by court. Comm & Fin Chr 154:1375 D 6 '41
Voters for unification. Comm & Fin Chr 155: 2181 Je 8 '42
WAYH on the air! short wave FM radio installation provides mobile emergency supervision and repair service for Chicago surface lines. il map Transit J 86:236-8 Jl '42

CHICAGO, Wilmington and Franklin coal company
Common stock. Comm & Fin Chr 156:522+ Ag 13 '42

CHICKASHA cotton oil company
Stocks with high quick assets and good earnings. F. R. Walters. Mag of Wall St 70:90+ My 2 '42

CHICKEN embryo extracts
Anaphylaxis in guinea pigs following sensitization with chick-embryo yellow fever vaccine and normal chick embryos. T. O. Berge and M. V. Hargett. bibliog Pub Health Rep 57:652-67 My 1 '42

CHICLE
Guatemala's chicle industry, 1935-1941. For Comm W 7:24 My 2 '42
Production of chicle and jelutong. il India Rubber W 106:136+ My '42

CHILD endowment. See Family allowances

CHILD labor
Hazards of logging and sawmilling employments for young workers. 111p U.S. Children's bur, Industrial div, Washington '41
Occupational hazards to young workers; the coal-mining industry. U S Children's Bur Pub 275:1-55; pa 10c Supt. of doc. '42
Occupational hazards to young workers; woodworking machines. U S Children's Bur Pub 277:1-53; pa 10c Supt. of doc. '42
Youngest workers in three urban communities. J. H. Lewis and H. Wood. p218-24 U.S. Children's bur, Washington '42
See also
Home labor

Germany

Employment of young persons in Germany. Int Labour R 45:337-9 Mr '42
Juvenile employment in Germany. Int Labour R 45:512-20 My '42; Abstract. Monthly Labor R 55:234-7 Ag '42

Great Britain

Child labour; general emergency order for potteries. Economist 142:250 F 21 '42
Children in agriculture. Economist 142:889 Je 27 '42
Youth in industry. Economist 143:36-7 Jl 11 '42

CHILD labor laws

Brazil

New child-labor law of Brazil. Monthly Labor R 54:72 Ja '42

CHILD study
Method of co-twin control. A. Gesell. bibliog Science 95:446-8 My 1 '42

CHILD welfare
Child congress adopts declaration of rights. Comm & Fin Chr 155:1951 My 21 '42
Maternal and child-health services under the Social security act; development of program, 1936-39. maps U S Children's Bur Pub 259:1-109; pa 15c Supt. of doc. '41
Mental hygiene services in rural areas; the program of the Mental hygiene division, Suffolk County Department of health, New York. G. M. Lott. Pub Health Rep 57:1115-26 Jl 31 '42
See also
Adoption

Dictionaries

Glossary of certain child-welfare terms in Spanish, Portuguese French and English. A. K. Smith. U S Children's Bur Pub 271:1-115; pa 15c Supt. of doc. '42

Great Britain

Feeding of school children in Great Britain. Monthly Labor R 54:917-18 Ap '42
War workers' children. Economist 143:10 Jl 4 '42

CHILDREN
See also
Child labor
Family

Care and hygiene

Child health and the selective service physical standards. A. Ciocco, H. Klein and C. E. Palmer. Pub Health Rep 56:2365-75 D 12 '41
Proceedings of Conference on day care of children of working mothers, with special reference to defense areas, Washington, D.C., July 31-Aug. 1, 1941. U S Children's Bur Pub 281:1-84; pa 15c Supt. of doc. '42
Road to good nutrition. L. J. Roberts. pls U S Children's Bur Pub 270:1-54; pa 15c Supt. of doc. '42
See also
Day nurseries

Charities, protection, etc.

See also
Child welfare
Family allowances

Hospitals

Facilities in the United States for the special care of children with rheumatic heart disease. O. F. Hedley. bibliog Pub Health Rep 56:2321-41 D 5 '41

Law

See also
Child labor laws
Parent and child (law)

CHILDREN, Photography of. See Photography of children

CHILDREN and war. See War and children

CHILDS company
Annual report. Comm & Fin Chr 155:821 F 24 '42
Company urges debenture holders to accept exchange offer. Comm & Fin Chr 156:1016 S 21 '42

CHILE
Engineer looks at South America. J. C. Cosgrove. il maps Explosives Eng 19:336-41, 361-6 N-D '41
See also
Air lines—Chile
Budget—Chile
Copper mines and mining—Chile
Mines and mineral resources—Chile
Public health—Chile

CHILE—*Continued*

Economic conditions

Chile in 1941. Economist 142:sup13-14 Mr 14 '42

Economic recovery in Chile. F. M. Stern. Barron's 22:19-20 O 5 '42

News by countries. Published in Foreign commerce weekly

War's effect on Chilean economy. il For Comm W 9:3-7, 40-3 O 3 '42

Foreign relations

United States

Chilean president defers visit to U.S. incident to speech of Welles. Comm & Fin Chr 156:1549 O 29 '42

Industries and resources

Chile's white gold stages a comeback. K. Falk. il For Comm W 8:3-7, 30-1 S 5 '42; Excerpts. Oil Paint & Drug Rep 142:3+ S 7 '42

Plants for Chile; new trading company buys unused factories which can't be converted. Business Week p84 O 3 '42

Social conditions

Social medicine in Chile. S. Allende G. Int Labour R 45:25-43 Ja '42

CHILEAN nitrate. See Sodium nitrate

CHIMNEYS

Contracts commanding priorities; installation details, forced draft duct, insulation and covering of smokestack breechings; Kings Park state hospital. il diags Sheet Metal Worker 32:28-30 D '41

Easy way to select economical chimney sizes. J. G. Mingle. Power Pl Eng 46:86-7 Ap '42

Height of stacks established by wind-tunnel tests; investigation of flue gas problem at Riverside station, Baltimore. H. L. von Hohenleiten and E. F. Wolf. Power Pl Eng 46:73-5 Ag '42

How to build a fire-safe chimney. diags Am Bld 64:88 Mr '42

New terra cotta chimney uses 80% less metal. diag Brick & Clay Rec 101:26 Jl '42

Observed performance of some experimental chimneys. R. S. Dill, P. R. Achenbach and J. T. Duck. il diags Heating-Piping 14:252-9 Ap '42; Abstract. Sheet Metal Worker 33:50+ S '42; Discussion. Heating-Piping 14:259-60 Ap '42

Spark arresters for stacks. Safety Eng 83:29 Je '42

See also
Heating
Smoke prevention

CHIMNEYS, Concrete

Morenci smelter chimney. C. W. Dunham. il (p283) Min & Met 23:282 My '42

Reinforced concrete chimneys. C. P. Taylor and L. Turner. 64p $3.50 Engineers book shop '40

CHIMNEYS, Steel

Arc welding saves 25 per cent of stack weight. Blast F & Steel Pl 29:[1145] N '41

Steel stack shell thickness; chart. S. Levine. Eng N 128:565 Ap 9 '42

World's tallest arc-welded stack completed in West Virginia. A. F. Davis. il Welding J 21:118 F '42

Repair

Corroded stacks repaired by welding. C. D. Cooper. il Power Pl Eng 46:94 O '42

CHIMPANZEES

Studies of infant chimpanzees. H. W. Nissen. Science 95:159-61 F 13 '42

CHINA

China after five years of war. 233p pa $1 Chinese news service, 1250 6th av, New York '42

China's leap from the middle ages. C. W. Van Patter. il W Soc E J 47:17-21 F '42

Journey into China. V. Cressy-Marcks. 324p $3.75 Dutton '42

See also
Agriculture—China
Cooperation—China
Ethics, Chinese
Finance—China
World war, 1939—China

Civilization

Origin of the Far Eastern civilizations; a brief handbook. C. W. Bishop. 53p bibliog (p51-3) Smithsonian institution, Washington, D.C. '42

Commerce

Significance of China's foreign trade returns. For Comm W 5:8-9+ D 6 '41

See also
Universal trading corporation

Economic conditions

Changes in China's economy. map Economist 143:483-4 O 17 '42

Economic reconstruction in wartime China. H. D. Fong. Harvard Business R 20 no 4: 415-26 [Jl] '42

News by countries. Published in Foreign commerce weekly

Post-war industrialization of China. H. D. Fong. 92p bibliog(p91-2) pa 50c Nat. planning assn, 1721 Eye st, NW, Washington, D.C. '42

State control in Free China. Economist 141: 686-7 D 6 '41

Exterritoriality

Draft treaty ending extra territorial rights. Comm & Fin Chr 156:1637 N 5 '42

End of a chapter. Economist 143:476 O 17 '42

U.S., Britain announce they will surrender extraterritorial rights in China. Comm & Fin Chr 156:1444 O 22 '42

Foreign relations

See also
China—Exterritoriality

Japan

China and Japan. 3d ed 163p pa $1.25 Oxford '42

See also
Chinese-Japanese war

United States

China, America's ally. R. W. Barnett. 48p pa 15c Am. council, Inst. of Pacific relations, New York '42

United States in a new world; series of reports on potential courses for democratic action; Pacific relations. il Fortune 26:supp 18-29 Ag '42

Industries and resources

China's needs. Economist 141:592-3 N 15 '41

Social reconstruction in China; a study in post-war problems. H. D. Fong. Int Labour R 46:299-312 S '42

Japanese occupation

See also
Chinese-Japanese war

Maps

New atlas of China; land, air and sea routes. M. Rajchman. 24p pa $1.50 Day '41

Politics and government

China of Chiang K'ai-shek; a political study. P. M. A. Linebarger. 449p $2.50; pa $1 World peace foundation '41

New deal for all nations. C. L. Hsia. Ann Am Acad 222:124-32 Jl '42

CHINA clay. See Kaolin

CHINA grass. See Ramie

CHINA wood oil. See Tung oil

CHINCHONA. See Cinchona

CHINESE

See also
Scientists—China

CHINESE ethics. See Ethics, Chinese

CHINESE in Thailand

Chinese in Thailand. K. P. Landon. 310p bibliog(p305-6) $2.50 Oxford '41

CHINESE-Japanese war

China's weapon; wits; the third battle for Changsha. diags maps Fortune 26:96-100 S '42

Far Eastern war, 1937-1941. H. S. Quigley. 369p bibliog(p333-42) $2.50; pa $1 World peace foundation '42

FDR hails China fight. Comm & Fin Chr 156: 290 Jl 23 '42

Japan tries a hard bargain for new order. M. Palyi. il Am Business 11:12-14+ N '41

CHINESE natural science association

Chinese scientific society on West coast. Science 95:427 Ap 24 '42

CHIP screens. See Screens

CHIPMAN, John

Portrait. Iron Age 150:53 O 22 '42

CHIPPER knives. See Knives, Chipper

CHIROPODY

Principles and practice of orthodigita. H. A. Budin. 263p bibliog(p259) $4 H. A. Budin, 512 5th av, New York '41

CHITIN

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

CHLORACETOPHENONE. See Chloroacetophenone

CHLORAL hydrate

Decipherment of charred documents by use of chloral hydrate and photography; abstract. W. D. Taylor and H. J. Walls. Sci Am 165:340-1 D '41

CHLORAMINE

Absorption spectra of mono-, di-, and trichloroamines and some aliphatic derivatives. W. S. Metcalf. Chem Soc J p148-50 F '42

Chlorine-ammonia treatment of water; committee report. Am Water Works Assn J 33:2079-123 bibliog(p2120-3) D '41

History of taste and odor control. W. W. Hassler. Am Water Works Assn J 33:2124-52 bibliog(182 titles, p2144-52) D '41

CHLORAMINE-T

Interaction of chloramine-T and hydrogen sulphide, phosphine, and arsine. J. R. Bendall, F. G. Mann and D. Purdie. Chem Soc J p157-63 F '42

CHLORANIL. See Tetrachloroquinone

CHLORATES

Chlorate chemicals under total allocation. Oil Paint & Drug Rep 141:3+ Je 8 '42

See also

Potassium chlorate

CHLORELLA

Photosynthesis in flashing light. S. Weller and J. Franck. bibliog J Phys Chem 45: 1359-73 D '41

CHLORIDES

Comparison of metallic chlorides as catalysts for the Friedel-Crafts ketone synthesis. O. C. Dermer and others. bibliog Am Chem Soc J 63:2881-3; 64:464-5 N '41, F '42

Conductance and ionic mobilities for aqueous solutions of potassium and sodium chloride at temperatures from 15° to 45°C. H. E. Gunning and A. R. Gordon. bibliog diags J Chem Phys 10:126-31 F '42

Determination of the entropy of the chloride ion. H. A. Bernhardt and H. D. Crockford. J Phys Chem 46:473-6 Ap '42

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Formation of cyclopropanes from monohalides; action of sodium alkyls on aliphatic chlorides; relation to the Wurtz reaction. F. C. Whitmore and H. D. Zook. bibliog Am Chem Soc J 64:1783-5 Ag '42

Olefins and diolefins from allylic chlorides. A. L. Henne, H. Chanan and A. Turk. bibliog Am Chem Soc J 63:3474-6 D '41

Rapid estimation of bromides in the presence of chlorides. M. Lane. Ind & Eng Chem Anal ed 14:149 F 15 '42

Variation of the transference numbers of sodium chloride in aqueous solution with temperature. R. W. Allgood and A. R. Gordon. J Chem Phys 10:124-6 F '42

See also

Halides

Salt

CHLORINATION

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides; the addition of chlorine to α-naphthylthiocarbimide and the structure of the compounds obtained. G. M. Dyson and T. Harrington. Chem Soc J p374-5 My '42

Chlorination of methane. E. T. McBee and others. bibliog flow diag il diags Ind & Eng Chem 34:296-300 Mr '42

Chlorination of propyl trichloroacetates. C. W. Gayler and H. M. Waddle. Am Chem Soc J 63:3358-9 D '41

Explosion hazard in the chlorination of alkyl isothioureas to prepare alkyl sulfonyl chlorides. K. Folkers, A. Russell and R. W. Bost. Am Chem Soc J 63:3530-2 D '41

Halogenation of certain esters in the biphenyl series; the chlorination of 4-phenylphenyl acetate. C. M. S. Savoy and J. L. Abernethy. bibliog Am Chem Soc J 64: 2219-21 S '42

Halogenation of phenolic ethers and anilides; some Arrhenius activation energies. B. Jones. Chem Soc J p418-20 Jl '42

Paper dielectrics containing chlorinated impregnants; deterioration in d.c. fields. D. A. McLean and others. bibliog il Ind & Eng Chem 34:101-9 Ja '42

Preparation and directed chlorination of 1,1,1-trifluoropropane. A. L. Henne and A. M. Whaley. bibliog Am Chem Soc J 64:1157-9 My '42

Preparation and properties of three isomeric *n*-hexyl cresols and their chlorinated derivatives. P. P. T. Sah and H. H. Anderson. bibliog Am Chem Soc J 63:3164-7 N '41

Stereoisomeric bromo 1,4-dimesityl unsaturated 1,4-diketones. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2426-30 O '42

Sulfur dioxide as a raw material; chlorination of metal oxides with sodium chloride and sulfur dioxide. H. F. Johnstone and R. W. Darbyshire. bibliog diag Ind & Eng Chem 34:280-6 Mr '42

See also

Rubber—Chlorination

Sewage disposal—Chlorination

Water purification—Chlorination

CHLORINATORS

Electrolytic chlorinators used on east Texas disposal projects. T. P. Sanders. il Oil & Gas J 41:31-2 Jl 23 '42

South District filtration project, Chicago; chemical handling facilities. diags Eng N 128:1014-16 Je 18 '42

CHLORINE

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides. G. M. Dyson and T. Harrington. Chem Soc J p150-3 F '42

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides; the addition of chlorine to α-naphthylthiocarbimide and the structure of the compounds obtained. G. M. Dyson and T. Harrington. Chem Soc J p374-5 My '42

Activated carbon from hydrocarbons and chlorine. G. W. Stratton and D. E. Winkler. bibliog diag Ind & Eng Chem 34:603-6 My '42

Amendment to general preference order No.M-19, to conserve supply and direct distribution of chlorine. Am Water Works Assn J 34:174-8 Ja '42

Bacteriologist looks at chlorine. S. M. Costigan. Am Water Works Assn J 34:353-61 bibliog(39 titles, p359-61); Discussion. J. W. Krasauskas. 361-4 Mr '42

Bleaching with less chlorine. il Pulp & Pa of Can 43:788 S '42

CHLORINE—*Continued*

Chlorine and chlorination developments of the month. Water Works & Sewerage 89: 81-2 F '42

Chlorine civilian use restricted. Oil Paint & Drug Rep 141:3 Mr 2 '42

Chlorine consumed tests for pollution. H. A. Faber. Am Water Works Assn J 34:746-8 My '42

Chlorine control in Canada. Can Chem & Process Ind 26:23 Ja '42

Chlorine essential in many uses in war. Refrig Eng 44:113 Ag '42

Chlorine method for the determination of non-metallic inclusions in steel. E. W. Colbeck, S. W. Craven and W. Murray. diag Iron & Steel Inst J 143:332-44 no 1 '41

Chlorine situation. Pulp & Pa of Can 43:541 Je '42

Chlorine use restrictions tightened. Oil Paint & Drug Rep 141:7 My 4 '42

Conservation of chlorine. Pulp & Pa of Can 43:765-6 S '42

Further restriction of chlorine consumption in Canada. Pulp & Pa of Can 42:785-6 D '41

General preference order no. M-19 as amended February 25, 1942, to conserve the supply and direct the distribution of chlorine and products containing available chlorine. Am Water Works Assn J 34: 644-53 Ap '42

Maintaining open diffuser plates with chlorine at Jackson, Michigan. R. B. Jackson. il Water Works & Sewerage 89:380-2 S '42

Methods of reducing chlorine consumption. T. W. Toovey. Paper Tr J 114:23-6 F 12 '42: Same. Pulp & Pa of Can 43:896-8+ N '42

Paper industry must consume less chlorine. Paper Tr J 113:8-10 N 20 '41

Peroxide versus chlorine bleaching; discussion. Am Dyestuff Rep 31:61-2 F 2 '42

Purging air diffuser plates with chlorine. W. M. Franklin. Water Works & Sewerage 89: sup210 Je '42

Rationed chlorine; latest order on pulp, paper, and paper board. Business Week p33-4 N 29 '41

Rejuvenating wells with chlorine; University of Illinois. H. L. White. il Civil Eng 12:263-5 My '42

Restoring well capacity with chlorine. E. D. Brown. Am Water Works Assn J 34:698-702 My '42

Some economies in chlorine consumption in bleaching chemical wood pulp. J. D. Rue and S. C. Nagel. Paper Tr J 114:23-6 Je 11 '42

Van der Waals sorption of chlorine by silica gel at low temperatures. L. H. Reyerson and C. Bemmels. J Phys Chem 46:31-5 Ja '42

See also

Bleaching
Halogens
Water purification—Chlorination

Analysis

Determination of available chlorine in solutions containing textone. J. F. White. Am Dyestuff Rep 31:484-7 S 28 '42

New method of determining residual chlorine. H. C. Marks and J. R. Glass. bibliog diag Am Water Works Assn J 34:1227-40 Ag '42

Isotopes

Efficiency of the electrolytic separation of chlorine isotopes. H. L. Johnston and D. A. Hutchison. bibliog diag J Chem Phys 10: 469-72 Jl '42

Preparation and properties of long-lived radio-chlorine. D. C. Grahame and H. J. Walke. bibliog Phys R 60:909 D 15 '41

Manufacture

Chlorine and salt cake from salt and sulfur. A. W. Hixson and A. H. Tenney. bibliog diags Ind & Eng Chem 33:1472-84 D '41

Chlorine production by new process; abstract. A. W. Hixson and A. H. Tenney. Oil Paint & Drug Rep 141:7+ Ja 5 '42

Electrolytic chlorinators used on east Texas disposal projects. T. P. Sanders. il Oil & Gas J 41:31-2 Jl 23 '42

Laundry produces bleach electrolytically. il Elec W 118:820+ S 5 '42

Mill-made chlorine bleach; electrolytic equipment. il Textile World 92:70 O '42

Salt-consuming industries of Niagara Falls. J. Searles. bibliog il map Chem & Eng N 20:997-1002 Ag 25 '42

Salt water disposal system utilizes noncorrosive materials; chlorine for sterilization generated by rebuilt electric-welding machine. C. C. Pryor. il Pet Eng 13:44 Ap '42

Statistics

Alkalis and chlorine, 1941. Chem & Met Eng 49:84-6 F '42

CHLORINE compounds

Restricted rotation in aryl olefins; preparation and resolution of β-chloro-β-(2-methoxy-4,6-dimethyl-5-chlorophenyl) - α-methylacrylic and the corresponding acrylic acid. R. Adams and W. J. Gross. bibliog Am Chem Soc J 64:1786-90 Ag '42

See also

Chlorides
Trichloroacetates

CHLORINE fluoride

Absorption spectrum of chlorine fluoride. A. L. Wahrhaftig. bibliog J Chem Phys 10: 248 Ap '42

CHLORINE oxides

Chemistry of chlorites. J. F. White, M. C. Taylor and G. P. Vincent. bibliog(57 references) il Ind & Eng Chem 34:782-92 Jl '42

Chlorine dioxide used as flour bleaching agent; abstract. C. G. Ferrari and others. Food Ind 14:101 Mr '42

Nomograph for the solubility of chlorine monoxide in water. D. S. Davis. Ind & Eng Chem 34:624 My '42

Relation of lignin content to the strength of paper and paperboards; pulpsheets and boards prepared from groundwood delignified by chlorine dioxide, sulphate, and soda processes. E. C. Jahn and C. V. Holmberg. bibliog Paper Tr J 114:33-8 Ap 23 '42

CHLORITES

Chemistry of chlorites. J. F. White, M. C. Taylor and G. P. Vincent. bibliog(57 references) il Ind & Eng Chem 34:782-92 Jl '42; Correction. 34:978 Ag '42

CHLOROACETIC acid

Ban on monochloracetic acid held wise. M. A. Joslyn and W. V. Cruess. Food Ind 14:110-11 S '42

Monochloroacetic acid ban held ridiculous. C. D. Leake. Food Ind 14:102-4 Je '42

CHLOROACETONITRILE

Preparation of orthoesters. S. M. McElvain and J. W. Nelson. bibliog Am Chem Soc J 64:1825-7 Ag '42

CHLOROACETOPHENONE

War gas identification sets. F. C. Hickey and J. J. Hanley. il J Chem Educ 19:363-4 Ag '42

CHLOROAMINE. See Chloramine

CHLOROAMINOACRIDINE

Chemotherapeutic studies in the acridine series; the chloroaminoacridines. F. R. Bradbury and W. H. Linnell. Chem Soc J p377-81 Je '42

CHLOROBENZENE

Analysis of the near ultraviolet absorption spectrum of monochlorobenzene. H. Sponer and S. H. Wollman. bibliog il J Chem Phys 9:816-25 N '41

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Reaction of methyl furoate with benzene and chlorobenzene. C. C. Price and C. F. Huber. bibliog Am Chem Soc J 64:2136-9 S '42

CHLOROBUTENE

Olefins and diolefins from allylic chlorides. A. L. Henne, H. Chanan and A. Turk. bibliog Am Chem Soc J 63:3474-6 D '41

CHLOROCRESOLS

Preparation and properties of three isomeric *n*-hexyl cresols and their chlorinated derivatives. P. P. T. Sah and H. H. Anderson. bibliog Am Chem Soc J 63:3164-7 N '41

CHLORODIBROMOMETHANE

Mechanism of the haloform reaction; the preparation of mixed haloforms. J. G. Aston and others. Am Chem Soc J 64:1413-16 Je '42

CHLORODINITROBENZENE

Preparation of the dinitrochlorobenzenes from the corresponding dinitroanilines. L. H. Welsh. bibliog Am Chem Soc J 63:3276-8 D '41

Reactions of certain thiazoles and glyoxalines with picryl chloride and 2 : 4-dinitrochlorobenzene. J. McLean and G. D. Muir. Chem Soc J p383-6 Je '42

CHLOROETHOXYQUINOLINE

Syntheses in the quinoline series; 2,4-disubstituted quinoline derivatives. F. J. Buchmann and C. S. Hamilton. bibliog Am Chem Soc J 64:1357-60 Je '42

CHLOROETHYLGENTIOBIOSIDE

Synthesis of β-2-chloroethylgentiobioside and β-2-chloroethylprimeveroside acetates. L. P. Miller. bibliog Am Chem Soc J 63:3342-3 D '41

CHLOROETHYL methacrylate

Electrical properties of solids; polymethyl acrylate, polymethyl methacrylate, polymethyl-α-chloracrylate and polychloroethyl methacrylate. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:2389-93 O '42

CHLOROETHYLPRIMEVEROSIDE

Synthesis of β-2-chloroethylgentiobioside and β-2-chloroethylprimeveroside acetates. L. P. Miller. bibliog Am Chem Soc J 63:3342-3 D '41

CHLOROFLUOROBROMOMETHANE

Fluorochlorobromomethane. K. L. Berry and J. M. Sturtevant. bibliog Am Chem Soc J 64:1599-1600 Jl '42

CHLOROFLUOROETHANES

Hindered rotation in halogenated ethanes. G. Glockler and C. Sage. J Chem Phys 9:387-9 My '41

CHLOROFLUOROMETHANES

Freon substitutions. F. H. Faust. Refrig Eng 43:149+ Mr '42

Heat capacity, entropy, heats of fusion and vaporization and vapor pressure of fluorotrichloromethane. D. W. Osborne and others. bibliog Am Chem Soc J 63:3496-9 D '41

Industry committee presents report on Freon refrigerants to the OPM; minimum requires 17 per cent of available carbon tetrachloride. Heating-Piping 14:9-10 Ja '42

Properties and characteristics of refrigerants. R. J. Thompson. Refrig Eng 44:311-18 N '42

Sizing Freon refrigerant lines; reference data. Heat & Ven 39:58a-58b Mr; 66a-66b Ap; 50a-50b My '42

CHLOROFLUOROPROPANES

Preparation and directed chlorination of 1,1,1-trifluoropropane. A. L. Henne and A. M. Whaley. bibliog Am Chem Soc J 64:1157-9 My '42

CHLOROFORM

Adsorption studies of vapors in carbon packed towers. H. C. Engel and J. Coull. bibliog Am Inst Chem Eng Trans 38:947-64; Discussion. 964-5 O '42

Chlorination of methane. E. T. McBee and others. bibliog flow diag il diags Ind & Eng Chem 34:296-300 Mr '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50; Discussion. 50-1 F '42

Inter-relation of first- and second-order asymmetric transformations. M. M. Jamison and E. E. Turner. Chem Soc J p437-40 Jl '42

Mechanism of the haloform reaction; the preparation of mixed haloforms. J. G. Aston and others. Am Chem Soc J 64:1413-16 Je '42

Mixed solvent extraction; batch-extraction stoichiometric computations. T. G. Hunter. bibliog diags Ind & Eng Chem 34:963-70 Ag '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

CHLOROGENIN

Sterols; sapogenins; the configuration of the hydroxyl groups in chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:221-3 F '42

Sterols; sapogenins; the structure of the side-chain of chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:809-12 Ap '42

CHLOROHEPTYNE

Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

CHLOROISOQUINOLINE

Deamination of 5-amino-8-nitroisoquinoline. B. Keilin and W. E. Cass. bibliog Am Chem Soc J 64:2442-4 O '42

CHLOROLEPIDINE

Nitration of lepidine and 2-chlorolepidine. S. E. Krahler and A. Burger. bibliog Am Chem Soc J 64:2417-19 O '42

Reaction of 4-chloroquinaldines and of 2-chlorolepidines with ammonia, and the preparation of the corresponding phenyl ethers. O. G. Backeberg and J. L. C. Marais. Chem Soc J p381-3 Je '42

CHLOROMETHANE. See Methyl chloride

CHLOROMETHYLATION

Structure of the chloromethylation product of trimethylhydroquinone diacetate. L. I. Smith and R. B. Carlin. Am Chem Soc J 64:524-7 Mr '42

CHLOROMETHYLQUINOLINE

Syntheses in the quinoline series; the nitration of 2-chloro-4-methylquinoline and the preparation of some 2-hydroxy-4-methyl-8-(dialkylaminoalkyl)-aminoquinolines. O. H. Johnson and C. S. Hamilton. Am Chem Soc J 63:2867-9 N '41

CHLORONITROANILINO compounds

Intermediates of pentryl analogs; chloronitroanilino alkanols. C. B. Kremer and M. Meltsner. Am Chem Soc J 64:1285-6 Je '42

CHLORONITRODIPHENYLSULFONES

Mobility of groups in chloronitrodiphenylsulphones. J. D. Loudon and N. Shulman. Chem Soc J p722-7 N '41

CHLORONITRONAPHTHALENE

Exchange reactions of 4-nitro-1-naphthyl methyl ether and 4-nitro-1-naphthyl ethyl ether with sodium ethoxide and methoxide respectively, and the reduction of certain 1-nitronaphthalene derivatives. H. H. Hodgson and J. Habeshaw. Chem Soc J p45-7 Ja '42

CHLOROPENTENE

Olefins and diolefins from allylic chlorides. A. L. Henne, H. Chanan and A. Turk. bibliog Am Chem Soc J 63:3474-6 D '41

CHLOROPHENOL

Electron-sharing ability of organic radicals; the effect of the radicals in the solvent molecule. F. A. Landee and I. B. Johns. bibliog Am Chem Soc J 63:2895-900 N '41

CHLOROPHYL

Chemistry of fat spoilage; influence of chlorophyll and xanthophyll; abstract. K. Taufel and R. Müller. Food Ind 14:106 Ag '42

Electrophoresis of the chlorophyll-protein complex. M. Fishman and L. S. Moyer. bibliog Science 95:128-9 Ja 30 '42

Some experiments on chlorophyll and photosynthesis using radioactive tracers. S. Ruben, A. W. Frenkel and M. D. Kamen. bibliog J Phys Chem 46:710-14 Je '42

CHLOROPICRIN

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

War gas identification sets. F. C. Hickey and J. J. Hanley. J Chem Educ 19:362-3 Ag '42

CHLOROPLATINIC acid

Rapid method for determining potassium in plant material; perchloric acid digestion and chloroplatinic acid precipitation. J. L. St John and M. C. Midgley. bibliog Ind & Eng Chem Anal ed 14:301-2 Ap 15 '42

CHLOROQUINALDINE

Reaction of 4-chloroquinaldines and of 2-chlorolepidines with ammonia, and the preparation of the corresponding phenyl ethers. O. G. Backeberg and J. L. C. Marais. Chem Soc J p381-3 Je '42

CHLOROSULFONIC acid

Apparatus for distillation of corrosive liquids as used for purification of chlorosulfonic acid. A. W. Hixson and A. H. Tenney. diag Ind & Eng Chem Anal ed 14:345 Ap 15 '42

Identification of organic compounds; chlorosulfonic acid as a reagent for identification of alkylbenzenes. E. H. Huntress and J. S. Autenrieth. Am Chem Soc J 63:3446-8 D '41

CHLOROTHALLATE

Formal oxidation-reduction potentials of thallous-thallic salts in aqueous hydrochloric acid solutions; formation of chlorothallate complex ions. R. H. Hughes and C. S. Garner. bibliog diag Am Chem Soc J 64:1644-8 Jl '42

CHLOROTOLUENE

Catalysts for the polymerization of benzyl chloride. O. C. Dermer and E. Hooper. Am Chem Soc J 63:3525-6 D '41

CHOCOLATE

Case for concentration; cocoa and chocolate trade. Economist 142:251 F 21 '42

Facts about caffeine, theobromine in foods. P. W. Punnett. il Food Ind 14:52-3+ Mr '42

CHOLANIC acid

Sterols; 21-benzal-pregnen-3(β)-ol-20-one and allied compounds. R. E. Marker and others. Am Chem Soc J 64:1282-3 Je '42

CHOLERA

Cholera and the sulfa drugs; abstract. J. J. Griffitts. Science 96:sup 10-11 Jl 10 '42

Laboratory studies of the effect of sulfonamide drugs on V. cholerae. J. J. Griffitts. Pub Health Rep 57:814-18 My 29 '42

Use of mucin in experimental infections of mice with vibrio cholerae. J. J. Griffitts. Pub Health Rep 57:707-10 My 8 '42

CHOLESTADIENES

Preparation of $\Delta^{6,8(14)}$-, $\Delta^{7,9(11)}$-, $\Delta^{7,14}$- and $\Delta^{8,14}$-cholestadienes. J. C. Eck and E. W. Hollingsworth. bibliog Am Chem Soc J 64:140-4 Ja '42

CHOLESTANTRIOL

Steryl sulfates; preparation of 3,5,6-cholestantriol-I. A. E. Sobel, I. A. Kaye and P. E. Spoerri. bibliog Am Chem Soc J 64:471-2 F '42

CHOLESTENE

Preparation of Δ^{8}-, $\Delta^{8(14)}$- and Δ^{14}-cholestenes. J. C. Eck and E. W. Hollingsworth. bibliog Am Chem Soc J 63:2986-90 N '41

CHOLESTEROL

Epimeric 7-hydroxycholesterols. O. Wintersteiner and W. L. Ruigh. bibliog Am Chem Soc J 64:2453-7 O '42

Steryl sulfates; isolation and separation of sterols. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:361-3 F '42

CHOLESTERYL oxides

Studies on cholesteryl oxides. P. N. Chakravorty and R. H. Levin. bibliog Am Chem Soc J 64:2317-22 O '42

CHOLESTERYL sulfates

See also

Calcium cholesteryl sulfate

CHOLINE

Histogenesis and repair of the hepatic cirrhosis in rats produced on low protein diets and preventable with choline. R. D. Lillie and others. bibliog Pub Health Rep 57:502-8 Ap 3 '42

Possible cure for liver cirrhosis. J. Stafford. Science 94:sup 10 D 5 '41

Significance of choline as a dietary factor. C. H. Best. bibliog Science 94:523-7 D 5 '41

Treatment of dietary liver cirrhosis in rats with choline and casein. J. V. Lowry and others. bibliog Pub Health Rep 56:2216-19 N 14 '41

Analysis

Determination of choline; a photometric modification of Beattie's method. M. H. Thornton and F. K. Broome. bibliog Ind & Eng Chem Anal ed 14:39-41 Ja 15 '42

CHOLINE esterase

Natural and synthetic inhibitors of choline esterase. H. Waelsch and H. Rackow. Science 96:386 O 23 '42

CHORIOMENINGITIS. See Meningitis

CHRISTIANITY

Christian humanism, life with meaning and direction. J. Maritain. Fortune 25:106-7+ Ap '42

Faith for history's greatest crisis. R. Niebuhr. il Fortune 26:98-100+ Jl '42

CHRISTMAS

Christmas comes to Madrid, N.Mex.; colorful celebration by coal mining camp. C. Holbrook. il diag Comp Air M 46:6603-6 D '41

CHRISTMAS business

Merry Christmas. Business Week p57-8 N 15 '41

What's the outlook for Christmas? Adv & Sell 35:122 N '42

CHRISTMAS cards

Christmas greetings; using photographs as cards. R. E. Janssen. il Am Phot 36:29 N '42

See also

Advertisements—
Christmas cards

CHRISTMAS clubs

Christmas club members to get $400,000,000. Comm & Fin Chr 154:1233 N 27 '41

Christmas club savings, 1926-1941; graph. Dun's R 49:31 D '41

Mutual savings bank Xmas clubs at record in New York city. Comm & Fin Chr 154:1132 N 20 '41

CHRISTMAS gifts

Christmas packages out early. il Ptr Ink 201:18-19 N 6 '42

Sets price formula on Christmas lines. Comm & Fin Chr 156:1715 N 12 '42

There'll always be a Christmas. il Mod Packaging 15:33-4 Je '42

Yule gift selection seen nearly normal. H. M. McBain. Comm & Fin Chr 156:1440 O 22 '42

See also

Soldiers, Gifts for

Advertising

Food co-operatives in nation-wide holiday campaigns. il Ptr Ink Mo 43:13 D '41

CHRISTMAS letters

Christmas, a time to be human. Ptr Ink Mo 43:48 D '41

Savings stamps as company remembrance; Mentholatum company. Ptr Ink 198:40 Ja 16 '42

CHRISTMAS lighting

Western Christmas pageantry. il Elec West 87:45 D '41

CHRISTMAS printing

Christmas cards to help your idea file. il Inland Ptr 110:65-8 O '42

CHRISTMAS tree decorations

Bauble business; Christmas tree gewgaws now produced by U.S. firms. Business Week p34+ D 13 '41

CHRISTMAS tree decorations—*Continued*

Plastics competition award to J. M. Gordon & co.; fluorescent Christmas tree ornaments. il Mod Plastics 19:118-19 N '41

CHRISTMAS tree holders

Christmas tree holder. F. W. Klay. diags Sheet Metal Worker 32:40 D '41

CHROM-X

Chrom-X and our chromium problem. M. J. Udy. il Metals & Alloys 14:52-5 Jl '41; Excerpts. Eng & Min J 142:50 D '41

Use of Chrom-X in steel making. J. H. McDonald. bibliog il Metals & Alloys 15:249-53 F '42

CHROMAN

3-Acetoxy-6-hydroxy-2,4,5-trimethylbenzylacetoacetic ester, and its transformation into chromene and chroman derivatives. L. I. Smith and R. B. Carlin. Am Chem Soc J 64:435-40 F '42

CHROMATES

Dyeing of cotton with mineral khaki; a comparison of the penetration, rubbing fastness and handle of cotton dyed with pigments produced by chromate and alkali development methods. E. Race, F. M. Rowe and J. B. Speakman. Soc Dyers & Col J 58:161-2 Ag '42

CHROMATOGRAPHIC analysis

Activation of dicalcium phosphate for the chromatographic determination of carotene. L. A. Moore. Ind & Eng Chem Anal ed 14:707-8 S 15 '42

Azoyl derivatives of sugars and separation by chromatographic adsorption. G. H. Coleman, A. G. Farnham and A. Miller. Am Chem Soc J 64:1501-2 Jl '42

Chromatographic adsorption analysis. H. H. Strain. bibliog diags Ind & Eng Chem Anal ed 14:245-9 Mr 15 '42

Chromatographic adsorption analysis. H. H. Strain. 222p bibliog(p163-203) $3.75 Interscience publishers, New York '41

Chromatographic analysis in reverse. A. Lowman. Science 96:211-12 Ag 28 '42

Chromatographic separation of mixtures of amino acids. J. Wachtel and H. G. Cassidy. Science 95:233 F 27 '42

Chromatography of *cis* and *trans* benzoin and anisoin oximes with application of the brush method. L. Zechmeister, W. H. McNeely and G. Sólyom. bibliog Am Chem Soc J 64:1922-4 Ag '42

Component glycerides of linseed oil; segregation by chromatography. F. T. Walker and M. R. Mills. bibliog diag Soc Chem Ind J 61:125-8 Ag '42

Determination of carotene and cryptoxanthin in yellow corn. G. S. Fraps and A. R. Kemmerer. bibliog Ind & Eng Chem Anal ed 13:806-9 N 15 '41

Erythrina alkaloids; chromatographic analyses of erysodine, erysovine and erysocine and technique for preparative isolation. K. Folkers and J. Shavel, jr. bibliog diag Am Chem Soc J 64:1892-6 Ag '42

Œstrone azobenzene-4-carboxylate. F. Bergel and A. Cohen. Chem Soc J p795-6 N '41

Method for standardization of chromatographic analysis. A. L. LeRosen. bibliog Am Chem Soc J 64:1905-7 Ag '42

Micromethod of chromatographic analysis. M. O. Crowe. bibliog il Ind & Eng Chem Anal ed 13:845-6 N 15 '41

Principles and practice of chromatography. L. Zechmeister and L. Cholnoky. 362p bibliog(p325-39) $5 Wiley '41

Removal of adsorbents from chromatographic tubes. J. Turkevich. Ind & Eng Chem Anal ed 14:792 O 15 '42

Separation of *cis* and *trans* stilbenes by application of the chromatographic brush method. L. Zechmeister and W. H. McNeely. bibliog Am Chem Soc J 64:1919-21 Ag '42

CHROMENE. See Benzopyran

CHROMIC acid

Anodic treatment of aluminum in the chromic acid bath. O. F. Tarr, M. Darrin and L. C. Tubbs. bibliog Ind & Eng Chem 33:1575-80 D '41; Same. Metal Finishing 40:106-11 F '42

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34:920-4 Ag '42; Same. Metal Finishing 40:527-31 O '42

Glass electrode measurements of the pH of chromic acid solutions. W. H. Hartford. bibliog Ind & Eng Chem Anal ed 14:174-6 F 15 '42

CHROMITE

Brazil's chromite production; effect of transport difficulties. For Comm W 6:36 Ja 31 '42

Bureau of mines develops process for recovery of chromium. R. R. Sayers. Blast F & Steel Pl 30:544-6 My '42; Same cond. Steel 110:30-1+ Ap 27 '42

California's chromite assumes new importance. J. B. Huttl. flow sheets il Eng & Min J 143:43-6 O '42

Chromite deposits of Kenai peninsula, Alaska. P. W. Guild. diag map U S Geol S Bul 931-G:139-75, pl 24-31; pa 50c Supt. of doc. '42

Chromite in southeastern Manitoba. J. P. de Wet. Can Min J 63:657-8 O '42

Chromite in the Philippines. W. F. Boericke. il map Eng & Min J 142:38-40 N '41

Ferro-alloy metals, 1941. F. Betz, jr. Eng & Min J 143:47-8 F '42

Low-grade chromite process developed. Oil Paint & Drug Rep 141:3+ Ap 27 '42

Opening Montana chromite deposits. W. J. Moore. il Comp Air M 47:6765-7 Je '42

Race for metals. il map Fortune 25:84-7+ Mr '42

Shetland chromite; refractories from British materials. Chem Age (Lond) 47:210 Ag 29 '42

CHROMITE magnesite brick

Chrome magnesite open hearth linings. A. Mund. Iron Age 148:61 D 4 '41

Improved dry press practice for chrome and magnesia refractories. G. E. Seil. diags Brick & Clay Rec 101:38, 40+ Ag; 46, 48-50 S; 44, 46-7 O '42

CHROMIUM

Chrome and magnesite; abstract. J. W. Craig. Chem & Ind 61:62 Ja 31 '42

Chromium; a strategic material. A. Kemp. Harvard Business R 20 no 2:199-212 [Ja] '42

Chromium and alloy steels; uses and conservation suggestions. Product Eng 13:157-8 Mr '42

Chromium deliveries under full control. Oil Paint & Drug Rep 140:5 D 1 '41

Colored glasses; extinction coefficients for chromium and cobalt. S. R. Scholes and R. H. Dows. Glass Ind 23:301-3+ Ag '42

Electrochemistry of baths of fused aluminum halides; the deposition potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42

Sponge chromium. C. G. Maier. pl diags U S Bur Mines Bul 436:1-109 bibliog(p107-9); pa 20c Supt. of doc. '42

Sponge chromium produced. Blast F & Steel Pl 30:sup30 Ap '42

Structure of evaporated films of chromium and aluminum on glass. A. R. Oliver. bibliog Phys R 61:313-14 Mr 1 '42

Term formulae for the configuration d^5. O. Laporte. bibliog Phys R 61:302-4 Mr 1 '42

Vanadium, tungsten and chromium, 1941. Min Cong J 28:50-2 F '42

Analysis

Colorimetry in metallurgical analysis. R. W. Silverthorn and J. A. Curtis. il Metals & Alloys 15:245-8 F '42

Silicon, manganese, chromium, iron, and copper in a nickel-base alloy; an aliquot-method for routine analysis of an electrical heat-resisting alloy. L. Silverman. Ind & Eng Chem Anal ed 14:554-5 Jl 15 '42

CHROMIUM alloys

Conservation and substitution in Cr-Ni-Fe alloys; true economy in the use of chromium and nickel. M. A. Hunter. Metal Prog 41:49-51 Ja '42; Discussion. F. B. Foley. 41:361-2 Mr '42

CHROMIUM alloys—*Continued*

X-ray investigation of iron-nickel-chromium alloys. A. J. Bradley and H. J. Goldschmidt. bibliog Iron & Steel Inst J 144:273-83; Discussion. 284-8 no 2 '41

See also

Chromium steel

Stellite

Vitallium

CHROMIUM chlorides

Preparation of chromous chloride solution for determination of oxygen in gas. A. E. Sands. Am Gas Assn Mo 24:285-6 Jl-Ag '42

CHROMIUM copper silicon steel

Low carbon low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:191-2 Jl '42

CHROMIUM hydroxide

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

CHROMIUM manganese molybdenum steel

Chromium-manganese-molybdenum steels. H. Cornelius and H. Krainer. Engineer 174:170 Ag 28 '42

CHROMIUM metallurgy

Bureau of mines develops process for recovery of chromium. R. R. Sayers. Blast F & Steel Pl 30:544-6 My '42; Same cond. Steel 110:30-1+ Ap 27 '42

Chromium recovered from ore and stainless scrap. A. L. Feild. Metal Prog 42:530-1 O '42

Chromium recovery in basic openhearth. il Metal Prog 41:506-9+ Ap '42

Increased production of domestic chromium sought by Bureau of mines. R. R. Sayers. Steel 111:56 Jl 20 '42

Sponge chromium. C. G. Maier. pl diags U S Bur Mines Bul 436:1-109 bibliog(p107-9); pa 20c Supt. of doc. '42

CHROMIUM molybdenum steel

Arc welding applications. E. W. P. Smith. il Aero Digest 41:180, 182+ S '42

Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9:213-19 Ap '42

Carburization of cracking-still tubes during service. C. L. Clark. il Oil & Gas J 40:69-70 N 27 '41

Charpy tests on austempered 4140 steel. J. B. Newkirk. Metal Prog 41:90 Ja '42

Flash butt welding of chrome-molybdenum steel. W. S. Evans and V. V. Netchvolodoff. il diags J Aeronautical Sci 9:207-12 Ap '42

High-temperature strength characteristics available for design of cracking-still tubes. C. L. Clark. Oil & Gas J 40:33-4 Ja 8 '42

Influence of columbium or titanium additions to 5 Cr Mo steel. C. L. Clark. Oil & Gas J 40:39+ Ap 2; 72 Ap 23 '42

Study of dimensional and other changes in various die steels due to heat treatment. G. M. Butler, jr. il Am Soc for Metals Trans 30:191-221; Discussion. 221-4 Mr '42

Welding chromium steels; welding aircraft Cr-Mo steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. Welding J 21:sup 390-403 S '42

Testing

Influence of testing conditions on rupture strength. C. L. Clark. Oil & Gas J 40:83 F 26 '42

CHROMIUM nickel steel

Austenitic stainless steels in process industries. G. A. Sands. il Chem & Met Eng 49:132-5 My '42

Conservation and substitution in Cr-Ni-Fe alloys. H. A. Grove; M. A. Hunter; S. L. Hoyt. il Metal Prog 41:47-53 Ja '42

Creep strength of 18-8 Ti. A. M. Portevin. Metal Prog 41:88 Ja '42

Effect of hydrochloric acid plus inhibitor on the corrosion resistance of 18/8 stainless steel. H. H. Uhlig and E. M. Wallace. Electrochem Soc Trans 81 (preprint 25): 381-90 Ap '42

Effect of hydrogen on the ductility of steel. Engineer 172:sup[Metallurgist] 36-9 O 31 '41

Effect on the endurance limit of submerging welded fatigue specimens in a cold chamber. O. H. Henry and S. Cannizzaro. il diag Welding J 21:sup387-8 Ag '42

Effects of welding procedure on joints made in type 304 stainless steel. E. P. Auler. bibliog il diags Welding J 21:sup98-106 F '42

Fabricating alloy steel tubing. il Iron Age 150:62F Jl 30 '42

Fabricating stainless steel without distortion; making dishwashers at the plant of Josiah Anstince & co. il Steel 111:86, 89-90 Ag 3 '42

Magnetic delay in stainless steel; abstract. H. H. Uhlig. Gen Elec R 45:245-6 Ap '42

Nitrogen for nickel in Cr-Ni steels. W. Tofaute and H. Schottky. Iron Age 148:39-43 N 13 '41

Nitrogen's effect on chromium-nickel steels; abstract. R. Scherer, G. Riedrich and H. Kessner. Iron Age 150:70 O 22 '42

Proposed specifications for stainless steel arc-welding electrodes for welding steels of high hardenability. diags Welding J 21:513-14 Ag '42

Quenched austenitic 18-8 (nitrogen free) changes to ferrite at 70°F.; magnetic delay. H. H. Uhlig. Metal Prog 42:391 S '42

Shortcuts in fabricating stainless manifolds. il Steel 111:126-7 Jl 13 '42

Stainless steel arc welding techniques. E. W. P. Smith. il diags Iron Age 149:57-62 Ap 2 '42

Stainless steel movable control surfaces; with data on use of aluminum alloys and fabrics. G. G. Cudhea. bibliog il diags J Aeronautical Sci 9:44-55 D '41

Stainless steel powder; abstract. J. Wulff. Metals & Alloys 14:726+ N '41

Stainless steel wire in aircraft; abstract. J. K. Findley. Metals & Alloys 15:170+ Ja '42

Unique magnetic property in 18-8 demonstrated. Metals & Alloys 15:629 Ap '42

Welding stainless pressure vessels. G. H. Sandberg. il Am Mach 86:293-5 Ap 2 '42

Testing

Huey corrosion test for 18-8 steel. F. Meunier and H. M. Schnadt. Metal Prog 42:564+ O '42

Stress-strain characteristics of cold-rolled austenitic stainless steels in compression as determined by the cylinder test method. R. Franks and W. O. Binder. bibliog il Am Soc T M Proc 41:629-45 '41

Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9:419-38 S '42

CHROMIUM ores

Chrome ore, its conservation and substitution. G. E. Seil. Metal Prog 41:503-6 Ap '42

Chrome ore specifications revised. Min Cong J 28:64 Je '42

Chrome ores in open hearth refractories; abstract. F. L. Toy. Iron Age 149:51 Ap 23 '42

Chrom-X and our chromium problem. M. J. Udy. il Metals & Alloys 14:52-5 Jl '41; Excerpts. Eng & Min J 142:50 D '41

Computing a chromium-to-iron ratio; chart. R. C. Treasher and R. G. Bassett. Eng & Min J 143:68 Je '42

Metals Reserve formulates standard contracts for manganese and chrome ores. Min Cong J 27:60-1 D '41

See also

Chromite

Prices

Chrome ores prices set. Oil Paint & Drug Rep 142:7+ N 9 '42

CHROMIUM oxides

Effect of furnace atmosphere on colors derived from chromic oxide. W. L. Peskin. bibliog il diag Am Cer Soc Bul 20:402-11 N '41

See also
Chromite

CHROMIUM perchlorate

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34:920-4 Ag '42; Same. Metal Finishing 40:527-31 O '42

CHROMIUM plating

Aircraft electroplating. R. R. Janssen. Metal Finishing 40:249+ My '42; Same. Steel 111:163-5 D 7 '42

Chrome-hardening of cylinder bores. H. Van der Horst. diag Mech Eng 63:536-9+ Jl '41; Same. Metal Finishing 40:69-73 F '42; Discussion. Mech Eng 64:395-6 My '42

Chromium plating for improving motor equipment service; abstract and discussion. E. W. Templin. S A E J 49:sup38 D '41

Chromium plating of brass. R. B. Eyre. il Metal Finishing 40:192-5+ Ap '42

Chromium recovery; various methods of treating patent effluent surveyed. Automobile Eng 32:35-7 Ja '42

Cleaning and bright plating steel parts of electric irons. F. A. Maurer. il Metal Finishing 39:657-61 D '41

Conservation by electroplating. D. H. Bissell. Paper Tr J 114:35-7 Je 25 '42

Crankshafts; effect of chromium-deposition; use of nickel; abstract. R. E. Wilson. Automobile Eng 32:272 Jl '42

Cylinder bores; methods for reducing rate of wear. Automobile Eng 32:236 Je '42

Finishing of zinc-base alloy die castings. E. A. Anderson. Am Soc T M Proc 41:949-52 '41

Hard chromium plating. A. Fletcher. Metal Finishing 40:355-8 Jl '42

Hard chromium plating. A. Fletcher. Metal Finishing 40:536 O '42

Hard chromium plating; abstract. A. W. Logozzo. Iron Age 150:71 Jl 2 '42

Recent developments in piston rings for high-speed Diesels. J. O. Holls and T. C. Jarrett. il Diesel Power 20:650 Ag '42

Reclaiming and renewal of worn automotive parts; abstract. E. W. Templin. diags Automotive & Aviation Ind 87:43+ S 1 '42

Rectifiers in hard chrome plating. J. C. Bogle. il Iron Age 149:56-8 F 5 '42

Specification plating; recovery of over and under machined parts as well as worn parts; Platex, inc. T. E. Lloyd. il diag Iron Age 150:58-60 Jl 16 '42

Tank ventilating power costs cut by low velocity systems. W. B. Harris. diags Heat & Ven 39:42-5 Jl '42

Temperature control for chromium plating. L. B. Lumpkin. diags Metal Finishing 40:302-5 Je '42

Valve maintenance on four-cycle engines. J. B. Sims. il Diesel Power 20:212-13 Mr '42

Cost

Silver to replace nickel and chrome plate; comparative costs. A. Bregman. il Iron Age 148:59-62 N 13 '41

CHROMIUM steel

Brittleness in high-chromium steels. Engineer 172:sup[Metallurgist] 43-6 D 26 '41; Abstract. Metal Prog 42:860+ N '42

Chromium and alloy steels; uses and conservation suggestions. Product Eng 13:157-8 Mr '42

Heat-resisting steels. G. Riedrich. Engineer 173:499-501 Je 12 '42; Abstract. Metal Prog 42:140 Jl '42

Heat treating chromium-carbon stainless steels. W. C. Troy and W. E. Mahin. il Steel 110:66+ Je 22; 111:82, 84+ Jl 6 '42

Influence of alloy additions on corrosion resistance. C. L. Clark. Oil & Gas J 40:48+ Mr 19 '42

New standard steels; samples analysed. Chem Age (Lond) 47:112 Ag 1 '42

Nitrogen for nickel in Cr-Ni steels. W. Tofaute and H. Schottky. Iron Age 148:39-43 N 13 '41

Possible alternates for nickel, chromium and chromium-nickel constructional alloy steels. 143p pa 50c Am. iron and steel inst, New York '42

Stainless steel developments in process industries. G. A. Sands. il Chem & Met Eng 49:88-91 Ap '42

Study of dimensional and other changes in various die steels due to heat treatment. G. M. Butler, jr. il Am Soc for Metals Trans 30:191-221; Discussion. 221-4 Mr '42

Tests show effect on steels in cracking coil tubes of changes in chromium content. C. L. Clark. Nat Pet N 34:R147-50 My 13 '42

Use of Chrom-X in steel making. J. H. McDonald. bibliog il Metals & Alloys 15:249-53 F '42

War products consultation; pickling of 3.5% nickel steel and 1.3% chromium steel. il Metal Prog 41:350-1 Mr '42

Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

Welding chromium steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. bibliog il diags Welding J 21:sup353-84, sup389-415 Ag-S '42

See also
Chromium molybdenum steel
Chromium nickel steel
Steel, Stainless

Analysis

Routine colorimetric determination of titanium in chromium steels; separation of titanium and chromium by perchloric acid. L. Silverman. Ind & Eng Chem Anal ed 14:791-2 O 15 '42

CHROMIUM vanadium steel

Spring steels. H. Carlson. Product Eng 13:139-40 Mr '42

CHROMIZING

Chromizing of steel; abstract. I. R. Kramer and R. H. Hafner. Iron Age 150:44-5 O 22 '42

CHROMOISOMERISM. See Isomerism

CHROMOPHORES

Structure and absorption spectra; normal conjugated dienes. R. B. Woodward. Am Chem Soc J 64:72-5 Ja '42

CHROMOSOMES

Chromosome numbers in mammals and man. R. R. Gates. bibliog Science 96:336-7 O 9 '42

Colchicine induced univalents in diploid antirrhinum majus L. A. H. Sparrow. Science 96:363-4 O 16 '42

Sex-determination in melandrium and lymantria. R. Goldschmidt. Science 95:120-1 Ja 30 '42

Study of lampbrush chromosomes by the electron microscope. G. L. Clark, M. R. Barnes and E. R. Baylor. Science 95:250 Mr 6 '42

Tetraploidy in antirrhinum majus induced by sanguinarine hydrochloride. T. M. Little. Science 96:188-9 Ag 21 '42

CHRONOLOGY, Historical

Modern concise encyclopedia; chronology of the world from earliest historical times. W. Hendelson, ed. 2v 440p Unicorn press, New York '41

CHRYSENE

Investigations on the possible carcinogenic effect of anthracene and chrysene and some of their compounds; the effect of subcutaneous injection in rats. J. A. Pollia. J Ind Hygiene 23:449-51 N '41

Ultraviolet absorption spectra of the monomethylchrysenes. W. R. Brode and J. W. Patterson. bibliog diag Am Chem Soc J 63:3252-5 D '41

CHRYSLER corporation

Annual report. Comm & Fin Chr 155:821-2 F 24 '42

CHRYSLER corporation—*Continued*
Chrysler impasse; work continues without wage pact. Business Week p69-70 Je 27 '42
Chrysler in war and peace. H. J. Nelson. Barron's 22:3-4 My 25 '42
Funds for war; Chrysler open credit with 175 banks. Business Week p71 F 28 '42
High yield stocks with first call on earnings. G. Gordon. Mag of Wall St 70:350 Jl 11 '42
Motor cars to munitions. il Am Mach 86:549-61 Je 11 '42
Obtains $100,000,000 credit; revolving fund arrangement over five-year period. Comm & Fin Chr 155:915 Mr 2 '42
Outstanding stocks for income and profit. il Mag of Wall St 70:440-1 Ag 8 '42
Sales promotion for the duration. H. G. Moock. Am Gas Assn Proc 1941:224-7
Saving millions in Chrysler's testing laboratories. R. G. French. il Am Business 11: 28-30+ N '41
Stocks cheap under highest taxes. P. Dobbs. Mag of Wall St 70:240 Je 13 '42
Stocks in strategic market position. Mag of Wall St 69:705 Ap 4 '42

CHRYSLER'S tank arsenal. See Tanks, Military—Manufacture

CHUCKING machines
Turning out 37-mm. shells on automatics. il diags Iron Age 150:50-4 Jl 9 '42

CHUCKS
Chuck changed to hold castings concentric. D. I. Krauss. diags Am Mach 86:162 Mr 5 '42
Non-deforming cylinder boring chuck. C. T. Packer. il Am Mach 86:834 Ag 6 '42
Special chucks for lathe work. J. G. Jergens. diags Am Mach 86:220-1 Mr 19 '42

Manufacture

New plants of 1941; universal drill chucks. il Factory Management 100:B42-B43 Ap '42

CHURCH and social problems
Christian humanism, life with meaning and direction. J. Maritain. Fortune 25:106-7+ Ap '42
Protestant churches in Great Britain and the United States and reconstruction. Int Labour R 45:535-7 My '42

CHURCH and state

France

Churches of Europe. Economist 142:540-1 Ap 18 '42

Germany

Churches of Europe. Economist 142:503-4 Ap 11 '42

Norway

Norwegian church crisis. Economist 143:231-2 Ag 22 '42

CHURCH architecture
Church of Our Lady of the lake, Seattle, Wash.; views, plans, construction outline. Arch Forum 75:378-82 D '41
English church craftsmanship. F. H. Crossley. 120p 8s 6d Batsford, London '41
Tabernacle Church of Christ; with views, plans, construction outline; Eliel and Eero Saarinen, architects. Arch Forum 77:35-44 O '42

See also
St Denis (abbey)
Saint John the Divine, Cathedral of

Designs and plans

Church of Ss. Peter and Paul, Pierre, South Dakota. il diag plans Arch Forum 76:396-8 Je '42

CHURCH decoration and ornament
English church craftsmanship; an introduction to the work of the mediaeval period and some account of later developments. F. H. Crossley. 120p 8s 6d Batsford, London '41

See also
Stained glass

CHURCH life insurance corporation
Advances plan to buy term insurance and war bonds. Comm & Fin Chr 156:1437 O 22 '42; Same abr. East Underw 43:11 O 30 '42

CHURCH pension fund. See Clergy—Pensions

CHURCH printing
Use of class printing by churches means new business. il Inland Ptr 109:23-5 Ap '42

CHURCH publicity
Keeping your church in the news; how to inform the public about your church in action. W. A. Brodie. 125p $1 Revell '42

CHURCHES
See also
Church architecture

Air conditioning

Floor coils heat auditorium of new Community church. il Heating-Piping 14:223-5 Ap '42
Southern church air conditioned by ice storage system. G. H. Watson. il Heat & Ven 38:57-9 N '41

CHURCHILL, Winston Leonard Spencer, 1874-
British Prime Minister Winston Churchill in Washington for war talks with President. Comm & Fin Chr 155:40 Ja 1 '42
Christmas messages to U.S. of President and Prime Minister Churchill of Britain. Comm & Fin Chr 155:26 Ja 1 '42
Long adventure; the story of Winston Churchill. H. Hawthorne. 346p $2.50 Appleton-Century '42
Mr Churchill. P. Guedalla. 346p bibliog(p327-38) $3 Reynal & Hitchcock, New York '42
Prime Minister Churchill addresses Congress on plans of U.S. and Britain; text. Comm & Fin Chr 155:106+ Ja 8 '42

CHUTES
Delivery shoots; patent specification. diags Mech Handling 29:168-9 S '42
Heavy duty chutes. W. B. Lenhart. diag Rock Prod 45:30 Ap '42
Novel swing chute for storage bins. diags Eng & Min J 143:68 Jl '42

CHYMOTRYPSIN
Formation of chymotrypsin from chymotrypsinogen. J. A. V. Butler. bibliog Am Chem Soc J 63:2968-70 N '41
Molecular kinetics of trypsin action. J. A. V. Butler. bibliog Am Chem Soc J 63:2971-4 N '41

CHYMOTRYPSINOGEN
Formation of chymotrypsin from chymotrypsinogen. J. A. V. Butler. bibliog Am Chem Soc J 63:2968-70 N '41

CIBA pharmaceutical products, inc.
Pharmaceutical companies cited in anti-trust action did not engage in pro-Axis practices. Business Week p28-9 Ja 10 '42

CIDER

Analysis

Determination of lead content of commercial ciders and vinegars by spectrographic methods. C. W. Schroeder and H. C. Lythgoe. Ind & Eng Chem Anal ed 13: 829-30 N 15 '41

CIGAR boxes
All-America package competition; award to La Integridad cigar co. il Mod Packaging 15:182-3+ Ap '42

CIGAR factories

Employees

Hours and earnings in the cigar industry, 1940. P. L. Jones, M. Gresham and J. Laciskey. Monthly Labor R 53:1514-37 D '41

Safety measures

Hard way is the only way; Bayuk cigars, inc. M. L. Wurman. il Factory Management 100: 82-4 Ja '42

CIGAR industry and trade
Cigar box problems; abstract. A. W. First. Mod Packaging 15:74+ My '42
Cigar sales rise. Business Week p80+ D 6 '41
Dealer, consumer education takes sag out of cigar sales curve. il Sales Management 49: 50, 52 D 15 '41

CIGAR institute of America
Dealer, consumer education takes sag out of cigar sales curve. il Sales Management 49:50, 52 D 15 '41

CIGARET factories

Employees

Earnings and hours in manufacture of cigarettes, chewing and smoking tobacco, and snuff, December 1940. T. P. Henson. Monthly Labor R 54:184-209 Ja '42

CIGARET industry and trade
Gianninis' smokes; acquire control of Axton-Fisher tobacco co. Business Week p48+ O 10 '42
Liggett & Myers in war and peace. F. Dezendorf. Barron's 22:18 Jl 6 '42

Advertising

Cigarette ads hit; FTC complaints strike at vitals of whole business. Business Week p24+ Ag 15 '42
Cigarette companies accused by Federal trade commission; Philip Morris and Reynolds named in charges involving questionable advertising practices and misrepresentation of product. Ptr Ink 200:52+ Ag 14 '42
Cigarettes panned; Reader's Digest attack. Business Week p58 Jl 11 '42
Copy clinic; printed lying. Adv & Sell 35:32+ O '42
F.T.C. accuses two more cigarette manufacturers; Lucky Strike and Pall Mall. Ptr Ink 200:56-7 S 4 '42
Marlboro cigarettes provide theme for fashion advertising. il Ptr Ink 200:21 S 11 '42
Tobacco manufacturers answer F.T.C. charges. Ptr Ink 201:68 O 9 '42
Tobacco's "big three" testify on advertising. H. M. Wootten. il Ptr Ink Mo 43:5-8, 51-2 D '41

Statistics

Cigarette leaders of 1941-'42. G. R. Dunhill. Adv & Sell 35:177 F '42
Cigarette production by brands in 1941. H. M. Wootten. il Ptr Ink 198:22-3 F 6 '42
Newcomers gain in battle of the brands; pictograph. Sales Management 51:31 Jl 15 '42
Tobacco industry faces profitless prosperity; with table giving production of leading cigarette brands, 1938-1942. H. M. Wootten. Barron's 22:7-8 Ap 13 '42

CIGARET paper
Completely-electrified paper mill. C. E. Miller and F. A. Peschl. il Paper Ind 24:705-8 O '42
Ecusta will double its cigarette paper production. Paper Ind 23:861-2 D '41

CIGARETS
Brief appraisals of factors influencing market values. H. Lawrence. Barron's 22:13 Je 1 '42
Cigarette makers face higher costs. Barron's 22:12 S 28 '42
Wrappers tested for moisture loss. G. W. McBride. Food Ind 14:46-7 Ap '42

Manufacture

It isn't just tobacco; flavors from various parts of the world used in processing all tobacco products. E. M. Schwartztrauber. il For Comm W 8:6-9+ Ag 29 '42

Prices

No cigarette price rise. Comm & Fin Chr 155:1351 Ap 2 '42
OPA establishes price ceiling for cigarettes. Comm & Fin Chr 155:232 Ja 15 '42

CINCHONA
Cinchona bark pact with Bolivia near. Oil Paint & Drug Rep 142:3+ Ag 3 '42
Cinchona contract promotes and extends private projects. Oil Paint & Drug Rep 142:7+ S 7 '42
Cinchona contract sets price of Latin American barks. Oil Paint & Drug Rep 142:7+ Ag 31 '42
Cinchona cultivation in Latin America. W. Popenoe. Oil Paint & Drug Rep 141:3+ Ap 20 '42
Cinchona for quinine: vital Netherlands Indies product. C. K. Moser. il For Comm W 6:6-7+ Ja 10 '42

CINCHONA alkaloids
Cinchona alkaloids in pneumonia; some ethers of 6′-(β-thiolethyl)-apocupreine. R. S. Tipson and L. H. Cretcher. bibliog Am Chem Soc J 64:1162-4 My '42
Cinchona drug doses must be adequate. Oil Paint & Drug Rep 142:7+ Ag 31 '42
Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42
Structure and antipneumococcic activity in the cinchona series. A. G. Renfrew and L. H. Cretcher. Chem R 30:49-68 bibliog (115 references, p65-8) F '42
Totaquine use restricted by WPB. Oil Paint & Drug Rep 141:3+ My 4 '42
Totaquine users affected by WPB order. For Comm W 7:25 My 30 '42

Analysis

Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41

CINCHONIDINE
Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41
Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42
Quinine order extended to related alkaloids. Oil Paint & Drug Rep 141:4+ Je 22 '42

CINCHONINE
Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41
Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42
Quinine order extended to related alkaloids. Oil Paint & Drug Rep 141:4+ Je 22 '42

CINCHONINIC acid
Synthesis from rhodanine-oxindoles of keto and mercapto derivatives of cinchoninic acid. R. V. Jones and H. R. Henze. bibliog Am Chem Soc J 64:1669-72 Jl '42
Utilization of alkoxy ketones in the synthesis of quinolines by the Pfitzinger reaction. S. D. Lesesne and H. R. Henze. Am Chem Soc J 64:1897-1900 Ag '42

CINCINNATI
Cincinnati; a happy blend of industry and culture. E. G. Pierce. Credit & Fin Management 44:30-2 F '42
Queen city of the Ohio valley. E. G. Pierce. il Credit & Fin Management 44:16-18 Mr '42

CINCINNATI and Lake Erie transportation company
Present status; successor to Cincinnati & Lake Erie railroad through reorganization. Comm & Fin Chr 155:259 Ja 17 '42

CINCINNATI milling machine company
Receives Navy E award. Mach 48:157 My '42

CINCINNATI stock exchange
Monthly range of prices, 1941; tabulation. Comm & Fin Chr 155:472-3 Ja 29 '42
Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

CINCINNATI street railway company
Status of Cincinnati street railway bonds. Barron's 22:19 Ja 26 '42

CINCINNATI university
Paleontological collections. K. E. Caster. Science 95:454-5 My 1 '42

CINDERS
Improved N. & W. cinder handling plant. il Ry Age 112:549 Mr 14 '42

CINNABAR
Progress reports, Metallurgical division; cinnabar-reduction plants of the southwestern Arkansas quicksilver district. S. M. Shelton and W. A. Calhoun. pls map U S Bur Mines Rep of Invest 3627:1-24 '42

CINNOLINE
Cinnolines; some new examples. J. C. E. Simpson and O. Stephenson. Chem Soc J p353-8 My '42

CIRCLES
Diameter or circumference of any circle; chart. Can Min J 63:639 O '42

CIRRHOSIS of the liver. See Liver—Cirrhosis

CITIES and towns
Community plan builds morale and new market in small town; Port Jervis, New York. il Sales Management 51:30, 32 N 1 '42
Decentralized cities; effects on urban real estate values. H. Hoyt. Trusts & Estates 73:593-5 D '41
Elements in the urban-fringe pattern. R. B. Andrews. map J Land & Pub Util Econ 18:169-83 My '42
Small town manual for community action! bibliog il U S Bur For & Dom Com Industrial Ser 4:1-46; pa 5c Supt. of doc. '42; Review. Sales Management 51:24-6+ O 20 '42
Urban disintegration and the future of land investments. G. Whitnall. J Land & Pub Util Econ 17:440-51 N '41
War problems of the small city; how Port Jervis, N.Y. met war-depression. A. M. Tucker. Credit & Fin Management 44:16-18 Jl '42

See also
Business districts
City planning
Market areas
Metropolitan districts
Municipal government and other headings beginning Municipal
Rapid transit

Growth

Population trends in Chicago and its metropolitan region. H. Hoyt. map W Soc E J 46:288-310 D '41
Regional water supplies. A. Wolman. map Am Water Works Assn J 33:1875-93; Discussion. 1893-6 N '41
Tip on where to find war boom towns; increased tea and coffee rations; tabulation. Business Week p24 Je 6 '42

Industries

Industrial history of a midwestern town. K. A. Middleton. 91p bibliog(p90-1) 50c Univ. of Kansas, School of business, Lawrence '41 [Free to residents of state]
See also subdivision Industries under names of cities, e.g. Philadelphia—Industries; Pittsburgh—Industries

Moving

Hill, N.H. recreated; a precedent for planners. A. Solow. il plans Arch Rec 90:44-55 N '41

New Mexico

State engineering aid to New Mexico municipalities. W. C. Powell. Am Water Works Assn J 34:56-8 Ja '42

United States

American city, post-war. T. H. Reed. il map Banking 34:28-9 Mr '42
Cities and the national defense program. A. Miles and R. H. Owsley. 73p pa $1 Am. municipal assn, Chicago '41
Localities affected by the defense program, by states and towns. Dun's R 49:55-81 N '41
Main Street; the American town, past and present. H. P. Fairchild. 16p bibliog(p16) 61il $1.75 Greystone press, New York '41
Official statement from the War department concerning facilities in towns near army posts. Arch Rec 90:43 D '41
Record survey of buildings needed for civilian health and welfare in war-time production centers; hospitals, schools, municipal facilities, transportation terminals, recreational facilities, and commercial buildings. il Arch Rec 91:37-40 Ja '42
Sales Management high-spot cities. Published in semi-monthly numbers of Sales management
What types of new construction are essential, today? case in point: Portsmouth, N.H. maps Arch Rec 90:44-7 D '41

CITIES service company
Mexico will pay $1,000,000 for properties. Comm & Fin Chr 155:1830 My 11 '42

CITIES service oil company (Delaware)
Who's who in refining. Oil & Gas J 41:51 Jl 23 '42

CITIES service oil company (Pennsylvania)
Who's who in refining. Oil & Gas J 41:51 Jl 23 '42

CITIES service power and light company
SEC proceedings instituted. Comm & Fin Chr 156:864 S 7 '42

CITIZENSHIP
American citizens handbook. J. E. Morgan, ed. 2d ed 415p $1 Nat. education assn. of the U.S, Washington, D.C. '41
Discipline for democracy. T. V. Smith. 137p $2 Univ. of North Carolina press, Chapel Hill '42
Education for citizen responsibilities. F. L. Burdette, ed. 126p $1.50 Princeton univ. press '42
How to be a responsible citizen. R. V. Wright and E. G. Wright. 2d ed 206p bibliog(p191-7) $2 Association press, 347 Madison av, New York '41
My worth to the world; studies in citizenship. L. I. Capen and D. M. Melchior. enl ed 603p $1.80 Am. book co. '42
What constitutes evidence of citizenship? Management R 31:232 Jl '42

CITRAL
Determination of citral by means of the photoelectric colorimeter. J. Bailey and C. K. Beebe. bibliog Ind & Eng Chem Anal ed 13:834-6 N 15 '41
New source for citral; East African planting experiments. Chem Age (Lond) 46:304 Je 20 '42

CITRIC acid
Relation of urinary citric acid excretion to the menstrual cycle and the steroidal reproductive hormones. E. Shorr, A. R. Bernheim and H. Taussky. bibliog Science 95:606-7 Je 12 '42

Analysis

Determination of citric acid in pure solutions and in milk by the pentabromoacetone method. E. F. Deysher and G. E. Holm. bibliog Ind & Eng Chem Anal ed 14:4-7 Ja 15 '42

Manufacture

Plant design in microbiological processes. S. A. Gregory. Inst Chem Eng Trans 18:133-4 '40

Prices

Citric acid price control tightened. Oil Paint & Drug Rep 141:3+ Je 1 '42
Price ceiling completed. Oil Paint & Drug Rep 141:3+ F 16 '42

CITRININ
Anti-bacterial substances from moulds; citrinin, a metabolic product of penicillium citrinum Thom. H. Raistrick and G. Smith. Chem & Ind 60:828-30 N 22 '41
Anti-bacterial substances from moulds; some observations on the bacteriostatic powers of the mould products citrinin and penicillic acid. A. E. Oxford. Chem & Ind 61:48-51 Ja 24 '42
Color test for citrinin and a method for its preparation. H. Tauber, S. Laufer and M. Goll. Am Chem Soc J 64:2228-9 S '42
More antiseptics from molds. Science 95:626-7 Je 19 '42
Polarographic determination of citrinin. H. W. Hirschy and P. M. Ruoff. Am Chem Soc J 64:1490-1 Je '42

CITRONELLA oil
Java citronella oil. E. Guenther. bibliog il Soap & San Chem 18:24-8, 69-70 F; 25-8, 69-70 Mr; 27-30, 69-70 Ap '42

CITRULLUS colocynthis. See Colocynths

CITRUS fruit

Citrus indictments. Business Week p45 D 27 '41

1940-41 shipments of citrus fruit by destination, from Palestine. For Comm W 6:19 Ja 17 '42

Plight of Jaffa citrus. Economist 143:110-11 Jl 25 '42

Properties of citrus pectates and pectin and their relation to the rubber industry. C. W. Wilson. bibliog Rubber Age 51:121-4 My '42

Serious setback for Palestine's citriculture. For Comm W 7:27 Je 20 '42

Setback to Egypt's citrus-fruit industry; number of trees and production, 1940-1942. For Comm W 7:18 My 16 '42

By-products

Feed yeast and industrial alcohol from citrus-waste press juice. A. J. Nolte, H. W. von Loesecke and G. N. Pulley. il Ind & Eng Chem 34:670-3 Je '42

Prices

Citrus price flops. Business Week p50+ F 14 '42

CITRUS fruit juices

Cheap mud work employed in drilling Trinidad wells; citrus juices substituted for quebracho for viscosity control. C. N. Smith. Oil & Gas J 41:52, 55-6 My 28 '42

Analysis

Further notes on the determination of ascorbic acid and sulphur dioxide in fruit juices. H. F. W. Kirkpatrick. Soc Chem Ind J 60:298-9 N '41

Stability of ascorbic acid in citrus fruit juice products. A. W. E. Downer. bibliog Soc Chem Ind J 61:80-2 My '42

CITY and country

Rural-urban fringe; proceedings of the Commonwealth conference, University of Oregon, April 16-17, 1942. 80p Univ. of Oregon, Eugene '42

CITY College. See College of the city of New York

CITY halls. See Municipal buildings

CITY management. See Municipal government

CITY manager plan. See Municipal government —City manager plan

CITY planning

Act now on local planning! W. S. Parker. Arch Rec 92:57 O '42

American city, post-war. T. H. Reed. il map Banking 34:28-9 Mr '42

American planning and civic annual. H. James, ed. 292p $3 Am. planning and civic assn, 901 Union trust bldg, Washington, D.C. '41

Britain must rebuild; a pattern for planning. F. Pick. 64p 55c Universal distribution co, 38 Union sq. New York '41

City replanning and rebuilding. G. Greer. J Land & Pub Util Econ 18:284-92 Ag '42

City replanning is subject of Urban land institute conference. Comm & Fin Chr 154: 1236-7 N 27 '41

City-wide studies; pt. 1, Basic factors in the planning of the city of New York. 133p Mayor's committee on city planning, New York '42

Communities for living. F. S. Chapin, jr. and S. Schiller. 56p; List of suggested questions. 12p Univ. of Georgia press, Athens '41

Create post-war industrial plant commission; Society of industrial realtors. Comm & Fin Chr 156:638 Ag 20 '42

Defense housing; are we building future slums or planned communities. D. Rosenman. il map Arch Rec 90:56-8+ N '41; Reply and rejoinder. 91:7 F '42

Design for democracy. K. K. Stowell. Arch Rec 92:36-7 Jl; 37 S '42

Effect of defense projects on city plan of Louisville, Ky. C. Berg. il Civil Eng 12: 446-8 Ag '42

Elements in the urban-fringe pattern. R. B. Andrews. map J Land & Pub Util Econ 18: 169-83 My '42

Emergency city planning for Wichita, Kansas; difficulties caused by new housing projects for war workers. P. L. Brockway. il map Civil Eng 12:563-5 O '42

Handbook on urban redevelopment for cities in the United States. 105p U.S. Federal housing administration, Washington; 15c Supt. of doc. '41

Hill, New Hampshire, a planned town. J. L. Hayden. il map N E Water Works Assn J 56:202-11 Je '42

Hill, N.H. recreated; a precedent for planners. A. Solow. il plans Arch Rec 90:44-55 N '41

Land-use clinics aid cities in utilization of tax-reverted property in Michigan. Eng N 129:414 S 24 '42

Long-range engineering planning for Chicago. W. W. DeBerard. il Civil Eng 12: 183-6 Ap '42

Long-range programming of municipal public works, June, 1941. 72p bibliog(p72) National resources planning board, Public works committee, Washington, D.C. '41

Milwaukee's wants; Urban land institute report. Arch Forum 75:sup56+ D '41

National conference on planning; proceedings of the conference held at Indianapolis, Ind., May 25-27, 1942. 228p $2.50 Am. soc. of planning officials, 1313 E. 60th st, Chicago '42

New York, London lay post-war plans. Eng N 129:272 Ag 27 '42

Plan for living; the architect's part. C. Williams-Ellis. 36p pa 1s Faber & Faber, London '41

Plan for pedestrians; C. B. Troedsson's Safety town. il plans Arch Forum 76:sup10 Mr '42

Planning agencies fill vital role. Eng N 129: 106 Jl 16 '42

Planning cities for today and tomorrow. F. A. Crane. 47p pa 32c Row, Peterson and co, New York '42

Planning for the post-war period. W. H. Blucher. Roads & Bridges 80:70, 72, 74, 76 S '42

Planning project enlists three levels of government. Eng N 128:203 Ja 29 '42

Post-war opportunities in blighted areas. G. Greer. Trusts & Estates 74:470-1 My '42

Post-war planning programs begun by New York and New York city. Eng N 129:115 Jl 16 '42

Problem of the cities and towns; report of the Conference on urbanism, Harvard university, March 5-6, 1942. G. Greer, ed. 116p pa $1 Conference on urbanism, Harvard univ, Cambridge, Mass. '42

Tax-reverted land for city expansion. Eng N 128:787 My 7 '42

Technique for delimiting Chicago's blighted areas. R. C. Klove. J Land & Pub Util Econ 17:483-4 N '41

To rebuild London on decentralization plan. H. U. Nelson. Comm & Fin Chr 156:732 Ag 27 '42

To save the cities; Urban land institute proposal for rebuilding blighted city areas. Business Week p33-4 F 7 '42

To stop urban blight; partnership between private and public effort is proposed. A. W. Binns. il Tech R 44:130+ Ja '42

Town and country planning; a study of physical environment: the prelude to post-war reconstruction. G. McAllister and E. G. McAllister. 176p 12s 6d Faber and Faber, London '41

Urban pattern; Urban land institute's mission. Arch Forum 76:sup38+ Mr '42

Urban planning and public opinion; a pilot study. 36p pa 50c Bur. of urban research, Princeton univ, Princeton, N.J. '42

Urban redevelopment and housing; a program for post-war. G. Greer and A. H. Hansen. 24p pa 25c Nat. planning assn, 1721 Eye st, NW, Washington, D. C. '41

War and planning outlook. W. A. Robson. 28p pa 1s Faber & Faber, London '41

CITY planning—*Continued*

War problems of the small city; how Port Jervis, N.Y. met war-depression. A. M. Tucker. Credit & Fin Management 44:16-18 Jl '42

What happened to Haussmann; the great baron who rebuilt Paris. R. Moses. il plan map Arch Forum 77:57-66 Jl '42

When we build again; a study based on research into conditions of living and working in Birmingham. 138p $3 Norton '42

See also

Airports
Building laws and regulations
Business districts
Housing
Neighborhood planning
Parkways
Regional planning
Slums
Streets
Suburban development

Bibliography

Planning bibliography. 3d ed 13 numb l pa 25c Am. soc. of planning officials, 1313 E. 60th st, Chicago '41

Zone system

Twenty years zoning in Kansas. A. B. Martin. 35p bibliog(p33) League of Kansas municipalities, Lawrence, Kan. '41

Zoning by design. G. Whitnall. il Tech R 44: 131-3+ Ja '42

CITY stores company

Annual report. Comm & Fin Chr 155:1830 My 11 '42

CIVIL aeronautics administration

C.A.A. engineers, test pilots aid military work. Civil Aero J 3:86+ Ap 1 '42

CAA geared for defense. D. H. Connolly. Radio N 27:58+ Ja '42

C.A.A. in all-out education and training drive; committee to push aviation teaching in nation's schools. Civil Aero J 3:101+ Ap 15 '42

CAA radio equipment. T. B. Bourne. il Radio N 27:59-61 Ja '42

Regional and district offices, civilian pilot training service; directory. Civil Aero J 3: 75 Mr 15 '42

CIVIL aeronautics board

Important defense measures mark 1941 record. Civil Aero J 3:31+ F 1 '42

CIVIL air patrol

Air taxi service for war plants and the armed services. Business Week p51 Jl 25 '42

Auxiliary air arm. C. B. F. Macauley. Aviation 41:82-3+ F '42

CAP Courier-cargo service passes experimental stage; carries personnel and material for airplane manufacturers. il Aviation 41:215 Ag '42

Civil air patrol liability insurance. Spectator (Property ed) 7:18 My 28 '42

Civil air patrol seeks to enlist 280,000 persons. Civil Aero J 3:17+ Ja 15 '42

Civil air patrol steps ahead. Aviation 41:205 My '42

College flyers asked to join Civil air patrol. Civil Aero J 3:57-8 Mr 1 '42

Important job for the Civil air patrol; suggestion for use of light planes carried by PT boats in combating Nazi submarine. F. Smith. il Aero Digest 40:62 My '42

Insurance men interested in Civil air patrol. Nat Underw 46:10 Ja 15 '42

Let us fully utilize the capabilities of the Civil air patrol. Aero Digest 40:64 Je '42

New field opened in compulsory cover for air patrol. Nat Underw 46:20+ My 21 '42

Private flying and the war. Aviation 41:150+ Mr '42

Purpose stated by Commander Curry. Civil Aero J 3:35 F 1 '42

Suggested organization of local Civil air patrol units. C. B. Ripley. map Aero Digest 40:76+ F '42

Wing commanders. Aero Digest 40:268 F '42

CIVIL engineering

Activities of the Civil engineering division, S. P. E. E. 1940-41. L. G. Straub. J Eng Educ 32:622-30 Ap '42

American society of civil engineers and the Engineering institute of Canada joint meeting, Niagara Falls, Ont. Eng N 129:536-8 O 22 '42

American society of civil engineers annual convention covers broad field of interest. Eng N 128:168-71 Ja 29 '42

American society of civil engineers spring meeting, Roanoke, April 22-23. Eng N 128: 742-3, 746-7 Ap 30 '42

Army cantonment built in sub-zero weather. D. B. Niederlander. il Civil Eng 12:187-90 Ap '42

Civil engineering in 1941. il diags map Engineer 173:2-4 Ja 2 '42

Functions of the Civil engineer corps in the naval establishment. L. B. Combs. il Civil Eng 12:320-3 Je '42

Headline projects of 1941. il Eng N 128:120-34 Ja 15 '42

Record time construction at Quonset naval air station. R. V. Miller. Boston Soc C E J 29:38-49 Ja '42; Same abr. Engineer 174: 29-30 Jl 10 '42

Review and forecast, 1941-1942. Eng N 128: 85-7 Ja 15 '42

West coast cantonment. C. T. Leeds. il Civil Eng 12:541-4, 611-12 O-N '42

Work of the Civil engineer corps of the Navy. J. J. Manning. il Civil Eng 12:73-6 F '42

See also

Airports
Airways
Aqueducts
Blasting
Bridges
Building
Canals
Cofferdams
Culverts
Dams
Drainage
Dredging
Drilling and boring (earth and rocks)
Dry docks
Earthwork
Flood control
Foundations
Highway engineering
Hydraulic engineering
Irrigation
Marine engineering
Mining engineering
Municipal engineering
Piers
Piles and pile driving
Pipe laying
Public works
Railroad engineering
Regional planning
Rivers—Regulation
Roads
Sanitary engineering
Sewerage
Soil mechanics
Steel construction
Strains and stresses
Strength of materials
Subways
Surveying
Tunnels and tunneling
Water supply engineering

Bibliography

Catalogue of the William Barclay Parsons collection. 108p $2 New York public lib, New York '41

Current periodical literature. Published in monthly numbers of Civil engineering

History

French civil engineers of the eighteenth century. S. B. Hamilton. Engineering 153:325-6, 359-60 Ap 24-My 1 '42

Study and teaching

Civil course at Columbia radically revised. Eng N 128:377 Mr 5 '42

Revision of the undergraduate curriculum in civil engineering. J. K. Finch. J Eng Educ 32:728-31 My '42

Tables, calculations, etc.

Quantities of cylindrical intersections; water supply, subway, and other construction. L. J. Sack. diags Eng N 128:618-21 Ap 23 '42

CIVIL engineers

Civil engineer and industrial relations; procedure of U.S. Conciliation service. J. R. Steelman. il Civil Eng 12:599-600 N '42

Civil engineer and the wage and hour law. L. M. Walling. il Civil Eng 12:327-8 Je '42

Civil engineer and the Wagner act; relationship of professional men to collective bargaining must be clarified. H. A. Millis. Civil Eng 12:487-8 S '42

Civil engineer in modern war. E. Reybold. Civil Eng 12:125-6 Mr '42

CIVIL engineers—*Continued*

Civil engineers and the building industry; conference by Institution of civil engineers. Engineer 174:186-8, 241-2 S 4, 18 '42

Cooperation for stability; a triple alliance within the construction industry calls for unity of purpose. F. A. Nikirk. Civil Eng 12:237-8 My '42

Employment conditions among civil engineers, especially as related to collective bargaining. H. F. Peckworth. Civil Eng 12:527-8 S '42

Engineer and defense construction. B. B. Somervell. il Civil Eng 12:3-6 Ja '42

Engineer in the contracting industry. A. J. Ackerman. il Civil Eng 12:91-4 F '42

Engineers attend bombardment school. Eng N 128:371 Mr 5 '42

See also

American society of civil engineers

France

French civil engineers of the eighteenth century. S. B. Hamilton. Engineering 153: 325-6, 359-60 Ap 24-My 1 '42

CIVIL liberty. See Liberty

CIVIL service

Does the average worker prefer public or private employment? A. M. Cooper. Pub Util 29:811-17 Je 18 '42

Governmental personnel; the public service as a career; papers presented at the sixth annual Conference on current governmental problems, Oct. 31-Nov. 1, 1941. C. J. Rohr, ed. 90p pa 50c Bur. of public administration, Massachusetts state college, Amherst '42

Position-classification in the public service. 404p $4.50 Civil service assembly of the United States and Canada, Chicago '41

Study manual for civil service; easy way to prepare for civil service examinations. W. S. Meyer. 206p $2.50 Recorder ptg. & publishing co, 99 S. Van Ness av, San Francisco '42

Who is the labor boss in the publicly owned utilities? A. M. Cooper. Pub Util 28:749-54 D 4 '41

See also

Government employees

France

Regulations regarding civil-service employees in France. Monthly Labor R 54:130-3 Ja '42

Great Britain

Dead hand? what is wrong with the civil service? Economist 142:246-7 F 21 '42

Growth of the British civil service, 1780-1939. E. W. Cohen. 221p bibliog(p213-16) $3.25 Norton '42

United States

Education for the public social services; a report of the Study committee, American association of schools of social work. 324p $3 Univ. of North Carolina press, Chapel Hill '42

Employee relations in the public service. 246p bibliog(p231-46) $3 Civil service assembly of the U.S. and Canada, 1313 E. 60th st, Chicago '42

History of the federal civil service, 1789 to the present. M. B. Taylor. 162p U. S. Civil service commission, Washington; pa 25c Supt. of doc. '41

Improved employment situation of older workers; maximum age for admission to civil-service examinations for specified positions, 1940 and 1941. M. T. Waggaman. Monthly Labor R 54:65-8 Ja '42

Scientific positions under the government. Science 96:35 Jl 10 '42

Study manual for civil service; easy way to prepare for civil service examinations. W. S. Meyer. 206p $2.50 Recorder ptg. & pub. co, 99 S. Van Ness av, San Francisco '42

United States civil service examinations; shortage of technical and skilled workers. Science 94:580 D 19 '41

Variety of engineers wanted by U.S. Civil service. E. J. Stocking. Min & Met 23: 336 Je '42

Working for Uncle; ordnance inspectors carry wage plight to President. Business Week p26 S 26 '42

Your job and American victory. T. Barrett. 294p $2.50 George W. Stewart, 67 W. 44th st, New York '42

CIVIL service pensions

Federal civil-service retirement act. Monthly Labor R 54:673-4 Mr '42

CIVILIAN conservation corps

CCC networks. S. C. Manning, jr. il Radio N 27:68-70 Ja '42

Congress abolishes CCC. Comm & Fin Chr 156:115 Jl 9 '42

President backs NYA and CCC continuance. Comm & Fin Chr 155:1261 Mr 26 '42

Rookie, watch your step; safety in the CCC. G. H. Gilbertson. il Safety Eng 83:12-14 F '42

CIVILIAN defense

Absences for civic defense duties; company policies. Management R 31:35-6 Ja '42

Amateur radio in civilian defense. F. E. Handy. il Radio N 27:66-7+ Ja '42

Architects handle humanity instead of building programs in Britain's civil defense. E. Reid. Arch Rec 91:22+ Mr '42

Baltimore advertising men stir citizens to action for defense. il Ptr Ink 198:90-1 F 6 '42

Channels of defense. V. Einach. 137p bibliog(p129-34) pa $1 Council of social agencies, 70 W. Chippewa st, Buffalo, N.Y. '41

Chemical detection of war gases for civilian defense. T. F. Bradley. il diags Chem & Eng N 20:893-6 bibliog(p893) Jl 25 '42

Chemical warfare agents; reference and training chart prepared by Office of civilian defense. Power Pl Eng 46:116 N '42

Chemist's place in civilian defense. A. Gibson. Chem & Eng N 20:584-7 My 10 '42

Chicago civilian defense plans for water safety control. A. E. Gorman. Am Water Works Assn J 34:1343-56 S '42

Civil defenders. Economist 142:319 Mr 7 '42

Civil defense measures for the protection of children; report of observations in Great Britain, February 1941. M. M. Eliot. pls U S Children's Bur Pub 279:1-186 bibliog(p179-86); pa 30c Supt. of doc. '42

Civilian defense. Sci Am 166:51 F '42

Civilian defense and plant protection. C. H. Woodward. il Nat Safety N 45:12-13+ F '42

Civilian defense buildings. il diags plans Arch Forum 76:60-7 Ja '42

Civilian defense communications; War emergency radio service plan. Electronics 15: 103 Jl '42

Civilian defense measures in public works, borough of Queens, New York city; abstract. W. Raisch. Water Works & Sewerage 89:316-17 Jl '42

Civilian defense of the United States. R. E. Dupuy and H. Carter. 296p bibliog(p 277-85) $2.50 Farrar '42

Civilian defense, protective concealment. 68p U.S. Office of civilian defense, Washington; pa 25c Supt. of doc. '42

Civilian defense reference number. il diags plans map Arch Forum 76:1-68 bibliog (p68+) Ja '42

Civilian defense volunteer office, an official arm of the local defense council. 27p U.S. Office of civilian defense, Washington; pa 10c Supt. of doc. '42

Civilian defense volunteer office; what it is, how it is set up, what it does, how to organize it. 35p U.S. Office of civilian defense, Washington '41

Civilian protection; how to organize it in your community. 12p U.S. Office of civilian defense, Washington '41

Civilians' uniforms; designs for OCD women. il Business Week p22+ Ja 3 '42

Compulsory defense training; anti-air and anti-chemical defense in Russia. P. P. Koblelev. Personnel J 20:236-8 Ja '42

CIVILIAN defense—*Continued*

Defense and the amateur. F. W. Stewart; S. G. Taylor. il Radio N 27:32-3+ F; 30-1+ Mr '42
Defense program of the motion picture theater. H. Anderson. Soc Motion Picture Eng J 38:526-31 Je '42; Same. Weekly Underw 147:1314-15+ D 5 '42
Defense training; Washington speeds program to protect gas supply. H. B. Noyes. Am Gas Assn Mo 24:88-90 Mr '42
Disestablishment of ARP. Economist 142:564-5 Ap 25 '42
Emergency medical service for catastrophes; organization for Detroit metropolitan area and Oakland county. J. S. Lambie. Ind Med 11:248-50 Je '42
Experience in civilian defense training; Racine water department. W. A. Peirce. il Water Works & Sewerage 89:339-40 Ag '42
Facility security plan to be formulated. Comm & Fin Chr 155:2038 My 28 '42
Fire, foe of war production. J. M. Landis. il Chem Ind 51:374-7 S '42
First aid primer; also including civilian defense health aids, emergency feeding, blackout instructions, morale through nutrition. H. L. Wenger and E. Sense. 104p $1 M. Barrows & co, New York '42
Handbook for civilian defense. H. Mayer-Daxlanden. 88p pa $1 Civilian advisory service, 41 Park row, New York '41
Handbook for civilian defense in office buildings. 54p Building managers' assn. of Chicago, 140 S. Dearborn st, Chicago '42
Handbook for rescue squads. 56p U.S. Office of civilian defense, Washington; pa 10c Supt. of doc. '41
Handbook for road repair crews. 44p U.S. Office of civilian defense, Washington; pa 10c Supt. of doc. '41
Handbook of civilian protection. L. L. Snyder, ed. 184p bibliog(p161-9) $1.25 McGraw-Hill '42
Home front digest. M. Logan. 231p pa $1.50 Howell, Soskin, publishers, 11-17 E. 45th st, New York '42
How credit men can aid in civilian defense. Credit & Fin Management 44:18+ N '42
If bombs fall! your health and safety in wartime. G. Baehr and others. 96p pa 25c Review and herald pub. assn, Takoma park, Washington, D.C. '42
Industry takes the offensive; auxiliary defense corps, River works of the General electric company. J. B. Dunne. il Nat Safety N 45:10-11+ F '42
Industry's part in civilian defense. S. J. Singer. il Nat Safety N 46:12-13, 60 Ag '42
Local defense council plans action. Ptr Ink 198:28+ Ja 9 '42
Manual of high explosives, incendiaries and poison gases. I. Fairhurst. 110p pa $1 Fairhurst book co, Greenfield, Mass. '42
NBC defense net. N. Trammell. il Radio N 27:72-3+ Ja '42
Organization of Civilian defense at Birmingham. Gas Age 89:30+ Mr 12 '42
Protecting industry's centers; civilian defense drivers corps. H. J. Stack. Safety Eng 84:34 S '42
Protection against gas. 75p U.S. Office of civilian defense, Washington; pa 25c Supt. of doc. '41
Protective and remedial measures for sanitary and public health engineering services; progress report of the national committee of the Society, on civilian protection in war time. il diags Am Soc C E Proc 68:105-42 bibliog(p137-42) Ja '42; Correction. 68:499-500 Mr '42; Discussion. 68:497-9, 615-18, 1013-20 Mr-Ap, Je '42
Protective and remedial measures for sanitary and public health engineering services; second progress report of the national committee of the Society, on civilian protection in war time. Am Soc C E Proc 68:951-63 Je '42
Public water supply in the civilian defense program. R. E. Tarbett. N E Water Works Assn J 56:221-9 Je '42
Small town manual for community action! U S Bur For & Dom Com Industrial Ser 4:1-46 bibliog(p44); pa 5c Supt. of doc. '42
Suggested regulations for retail stores (department stores, large specialty stores) for blackouts, air raids. 15p U.S. Office of civilian defense, Washington '42
Training manual for auxiliary firemen. H. Bond, W. F. Heisler and R. J. Douglas, eds. 406p pa $1.50 Nat. fire protection assn, 60 Batterymarch st, Boston '42
United States Citizens defense corps. 39p U.S. Office of civilian defense, Washington; pa 20c Supt. of doc. '42
Utility responsibilities in civilian defense; Philadelphia electric company. map Elec W 117:646-7 F 21 '42
Wartime protection of industrial plants [reprinted from Handbook of industrial safety]. 32p Nat. conservation bur, New York '42
Water supply protection in civilian defense. R. E. Tarbett. Am Water Works Assn J 34:1335-42 S '42
What special libraries can do for civilian defense. R. Savord. Special Lib 33:11-14 Ja '42
What the citizen should know about civilian defense. W. D. Binger and H. H. Railey. 183p bibliog(p173-5) $2.50 Norton '42
What you can do in civilian defense. F. J. Meine and H. L. Hitchens, eds. 64p pa 15c Consolidated book publishers, Chicago '42
When the blackout comes; repairs to utilities and the OCD scheme. H. Corey. Pub Util 30:18-24 Jl 2 '42

See also
Air raids—Protective measures
Camouflage
Civil air patrol

Bibliography

Citizen and defense; list of free and inexpensive material. Library Journal [New York] 67:32-5 Ja 1 '42
Civil defence; a selected list of British official publications, issued up to April 30, 1942. 15 numb l British information services, 30 Rockefeller plaza, New York '42
Civilian defense; a selected list of recent references. H. F. Conover, comp. 43p U.S. Lib. of Congress, Div. of bibliography, Washington '41
Civilian defense; a selection of available guide books and pamphlets. H. F. Conover, comp. rev ed 16p U.S. Lib. of Congress, Division of bibliography, Washington '42
Civilian war effort. Cleveland Pub Lib Business Information Bur v 13, no 2:1-4 F '42
Wartime protection. Am Soc C E Proc 68:137-42 Ja '42

CIVILIAN defense, Office of. See United States—Civilian defense, Office of

CIVILIAN war benefits. See World war, 1939—Compensation of war victims

CIVILIZATION

After the war—what? O. G. H. Rasch. Credit & Fin Management 44:7-9 N '42
Destiny of western man. W. T. Stace. 322p $3 Reynal & Hitchcock, New York '42
Edge of the abyss. A. Noyes. il Fortune 26:124-5+ O '42
Edge of the abyss. A. Noyes. 172p $2 Dutton '42
Faith for history's greatest crisis. R. Niebuhr. il Fortune 26:98-100+ Jl '42
Where are we headed? E. E. McCoy and R. C. Hutchison. 45p 75c Revell '42

See also
Education
Industry
Inventions
Social problems
Social progress
also subdivision Civilization under names of countries, e.g. Europe—Civilization; United States—Civilization

History

Geography and world power. J. Fairgrieve. 8th rev ed 376p $2.50 Dutton '41

CIVILIZATION—History—*Continued*

Million years of human progress. I. D. Cardiff. 147p $2 Dorset house, 55 W. 42d st, New York '42

Something went wrong; a summation of modern history. L. Browne. 360p $3 Macmillan '42

United States and civilization. J. U. Nef. 421p $3 Univ. of Chicago press '42

Philosophy

Crisis of our age; the social and cultural outlook. P. A. Sorokin. 338p $3.50 Dutton '41

Path to reconstruction; a brief introduction to Albert Schweitzer's Philosophy of civilization. Mrs C. E. B. Russell. 68p bibliog (p64-8) $1.50 Holt '42

CLAD steel. See Steel, Clad

CLAIMS

See also

Damages

Insurance—Adjustment of claims

Interpleader

Shipping—Claims

CLAISEN rearrangement. See Molecular rearrangements

CLAMPS

Adaptable air clamps for drilling and tapping machines. il Comp Air M 47:6848 S '42

Clamp adapted to line, substation use. il Elec W 117:506 F 7 '42

Clamp for lifting heavy steel bars. F. C. Hudson. il Am Mach 86:113 F 19 '42

Clamping device for use in tapping cast-iron caps. J. W. Gerdel. Mach 48:134 D '41

Clamping device holds castings. E. Grosz. diag Am Mach 86:446 My 14 '42

Clamping screw for finished surfaces. E. Grosz. diag Am Mach 86:957-8 S 3 '42

Handy clamp for aligning pipe for tack-welding operations. diags Can Min J 63:16 Ja '42

Mechanical clamp for carbide tip. diags Iron Age 149:56-7 My 28 '42

Parallel clamps for drilling. B. Frantzreb. diag Am Mach 86:1020-1 S 17 '42

Quick-acting toggle clamp. il diag Engineering 154:16 Jl 3 '42

Rigid toolbit for the heaviest work. M. H. Ball. diags Am Mach 85:1264-5 D 10 '41

Speed clamps for bundling wire. il Iron Age 149:54 My 21 '42

Work clamp with smooth base. M. H. Ball. il Am Mach 86:957 S 3 '42

CLAPEYRON equation

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

CLARASE

Microbiologic assay of natural pantothenic acid in yeast and liver; influence of clarase digestion. E. Willerton and H. W. Cromwell. bibliog Ind & Eng Chem Anal ed 14: 603-4 Jl 15 '42

CLARIFICATION

Filtration and clarification. A. B. Cummins and others. il diags Ind & Eng Chem 34: 403-29 Ap '42

CLARIFIERS

Advantages and disadvantages of continuous clarifiers for refining. J. M. Brown and W. A. Bemis. bibliog diags Ind & Eng Chem 34:419-22 Ap '42

Coolant clarification for grinding, honing, or superfinishing machines. Mach 48:151-2 Mr '42

Jacobs continuous clarifier for phosphoric acid and lime clarification of melted sugar solutions used for white sugar manufacture. J. P. Greven. flow sheet il diags Ind & Eng Chem 34:633-7 My '42

Treatment of filler for newsprint; clarifloc-culator tank at Baie Comeau. C. Dobell. il diags Pulp & Pa of Can 43:727-8 Ag '42

See also

Filters and filtration (technical chemistry)

Thickeners

CLARINETS

Plastics competition award to H. & A. Selmer, inc.; clarinet reeds. il Mod Plastics 19:162-3 N '41

CLARK, Lawrence Twilley, 1881-1942

Sketch. O. Kamm. Science 96:104 Jl 31 '42

CLARK equipment company

Borrows $2,000,000. Comm & Fin Chr 154: 1146 N 22 '41

Clark equipment co.; new manufacturing facilities; axle and transmission divisions. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ S 1 '42

Favored war stocks. J. J. Hipple. Mag of Wall St 69:438 Ja 24 '42

Good earnings despite higher taxes. S. Devlin. Mag of Wall St 70:519 Ag 22 '42

CLARKE, Alfred Carleton, 1888-

Sketch. por Explosives Eng 19:352-3 D '41

CLARKE, John, 1609-1676

Lively experiment; John Clarke of Rhode Island. por Fortune 26:84-5 Jl '42

CLASS distinction

End social inequality. B. A. Wootton. 63p 1s Routledge '41

Evolution of social classes. J. W. McConnell. 228p pa $3 Am. council on public affairs, 2153 Florida av, Washington, D.C. '42

Status system of a modern community. W. L. Warner and P. S. Lunt. 246p $3 Yale univ. press '42; Our drift away from democracy; review by C. S. Slocombe. Personnel J 21:42-6 Je '42

CLASSIFICATION

See also

Files and filing (documents, etc.)

Books

For gas engineering files and libraries; a modern system of classification. S. Shire. 115p loose-leaf $1.50 S. Shire, 1550 E. 63d st, Chicago '42

Library classification for public administration materials. S. H. Glidden and D. Marchus. 512p bibliog(pxii-xiv) $6 Public administration service, Chicago '42

Presenting a system of filing publications for gas engineers. S. Shire. il Gas Age 89:25-6+ Je 4 '42

CLASSIFICATION, Decimal

Specific instructions to allocation classification. Iron Age 149:116+ Je 4; 112-15 Je 11; 119-20 Je 18 '42

CLASSIFICATION of sciences

Organization of knowledge; an introduction to philosophical analysis. G. Negley. 373p bibliog(p357-63) $4; school ed $3 Prentice-Hall '42

CLASSIFIED advertisements. See Advertisements, Classified

CLASSIFIERS

Particle sizing and hydroseparation in phosphate recovery. B. J. Larpenteur. flow sheets il Eng & Min J 143:50-1 Mr '42

Studies in classification and refining of groundwood pulp. J. D. Brown. bibliog il Pulp & Pa of Can (Convention no) 43:131-40 [F] '42

See also

Screens

Separators

CLASSROOMS

Interesting details of Swedish schools. G. E. K. Smith. il Arch Rec 92:51 O '42

Teaching children, not subject matter; today's educational methods require better lighting. C. D. Gibson. il Elec West 88: 53-6 Ja '42

CLAVACIN

Production of two antibacterial substances, fumigacin and clavacin. S. A. Waksman, E. S. Horning and E. L. Spencer. bibliog Science 96:202-3 Ag 28 '42

CLAY

Acidity of Japanese acid clay; abstract. K. Yamamoto. Am Cer Soc Bul 21 (Cer A 21): 150-1 Jl 15 '42

CLAY—*Continued*

Adsorption of vapors by decolorizing clays and earths; abstract. E. Erdheim. Chem & Met Eng 49:182 F '42

Aluminum from clay. Science 96:sup12 Ag 7 '42

Clay impurities thoroughly removed by new refining process. il plan Cer Ind 37:54-7 D '41

Clays and high-silica bauxites for alumina production; summary of report by Advisory committee on metals and minerals. Chem & Met Eng 49:138-40 S '42; Same cond. Metal Prog 42:197-200 Ag '42; Same cond. Min Cong J 28:18-21 O '42; Abstracts. Metals & Alloys 16:300+ Ag '42; Min & Met 23:507-8 O '42

Consumption of domestic clay by the ceramic industry, 1936-1940. Cer Ind 38:150 Ja '42

Earth pressure and shearing resistance of plastic clay; symposium. K. Terzaghi, R. B. Peck and W. S. Housel. diags Am Soc C E Proc 68:857-950 Je '42; Discussion. 68:1216-24 S '42

Effect of steam and hot water with soda ash and a wetting agent on properties of clay. H. G. Schurecht, J. F. McMahon and C. M. Lampman. il Am Cer Soc J 25:346-51 Ag 1 '42

Electrochemical properties of mineral membranes; beidellite membranes and the determination of sodium. C. E. Marshall and C. A. Krinbill. bibliog Am Chem Soc J 64:1814-19 Ag '42

Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42

Electrochemical properties of mineral membranes; the estimation of ammonium-ion activities; the measurement of ammonium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. J Phys Chem 46:325-34 F '42

Explanation of many roadway and runway failures. H. C. Porter. Roads & Bridges 80:84 O '42

Factors entering into the determination of allowable loads on Chicago subsoils. R. B. Peck. diags W Soc E J 47:69-78 Ap '42

Fundamental study of clay; casting as a base-exchange phenomenon. A. L. Johnson and F. H. Norton. bibliog diags Am Cer Soc J 25:336-44 Ag 1 '42

Fundamental study of clay; surface area and its effect on exchange capacity of kaolinite. A. L. Johnson and W. G. Lawrence. bibliog Am Cer Soc J 25:344-6 Ag 1 '42

Heat-of-wetting values of unfired and fired clays. C. W. Parmelee and V. D. Fréchette. bibliog Am Cer Soc J 25:108-12 F 15 '42

Low-cost glazes for structural clay products. R. T. Stull and P. V. Johnson. pl U S Nat Bur Stand Circ C436:1-20; pa 10c Supt. of doc. '42; Abstract. Brick & Clay Rec 101:20-1 D '42

Low-grade domestic bauxite and clay recommended as source of alumina. Steel 111:54-5 Ag 10 '42

Modern concepts of clay materials. R. E. Grim. (Report of investigations 80) p225-75 State geological survey, Urbana, Ill. '42

New adhesive for paper clay coatings; Mazein. C. W. Stewart. Pulp & Pa of Can 43:333 Mr '42

New lubricating-oil-decolorizing and clay-reactivating process. W. B. Chenault and A. E. Miller. flow diag il Am Pet Inst Proc 22(3):59-68 '41; Same cond. Nat Pet N 33:R374, R376-8, R380 N 26 '41; Discussion. Am Pet Inst Proc 22(3):68-9 '41

New pots from the old clays of the West. G. Lukens. Am Cer Soc Bul 21:237-8 O 15 '42

Pills for concrete; use of burnt clay pellets. Business Week p71 D 6 '41

Plasticity and pourability of clays; abstract. A. Spangenberg. Am Cer Soc J 25 (Cer A 21):49 F 1 '42

Plasticity of clays. E. A. Hauser and A. L. Johnson. bibliog Am Cer Soc J 25:223-7 My 1 '42

Principles of microelectrophoresis cells. M. R. Thompson. bibliog diags Electrochem Soc Trans 81 (preprint 27):405-22 Ap '42

Report of the Nonmetals division, fiscal year 1941. O. C. Ralston and A. G. Stern. bibliog pls U S Bur Mines Rep of Invest 3599:1-33 '41

Structural viscosity studies of coating clay compositions; abstract. G. H. Sheets. il diag Paper Ind 24:182+ My '42

Swellability of clays in foundations; abstract. K. Endell. diag Chem & Met Eng 48:176-7 N '41

See also

Bentonite
Bricks
Ceramics
Foundation soils
Fuller's earth
Kaolin
Loess
Porcelain
Pottery
Roads, Earth
Silicates
Soils

Deaeration

Flow of deaired clay. Brick & Clay Rec 101:24 Jl '42

Testing

Effect of exchangeable bases on some properties of ball clays. M. D. Burdick, W. W. Meyer and T. A. Klinefelter. flow sheet graphs Am Cer Soc J 25:327-36 Ag 1 '42

Expansion, contraction, and strength changes of some clays during firing. R. K. Hursh and M. K. Blanchard. il diags Am Cer Soc J 25:351-4 Ag 1 '42

Measuring workability of clay bodies; new body tester. E. C. Henry. bibliog il Cer Ind 38:72, 74 Mr '42

Methods of determining value of native clays used as drilling muds. V. B. Zacher. il Oil & Gas J 40:60 N 27 '41

Stress-strain characteristics of plastic clay masses. R. Russell, jr. and C. F. Hanks, jr. bibliog il diag Am Cer Soc J 25:16-28 Ja '42

Testing and improving the drying behavior of clays. H. G. Schurecht and J. F. McMahon. diag Am Cer Soc J 25:422-4 O 1 '42

Union County mineral resources. L. C. Conant; T. E. McCutcheon. 158p bibliog(p98-100) State geological survey, University, Miss. '42

Workability

Measuring workability of clay bodies; new body tester. E. C. Henry. bibliog il Cer Ind 38:72, 74 Mr '42

Missouri

Use of Missouri refractories in blast furnace service. C. A. Freeman. il Blast F & Steel Pl 29:[1119-22] N '41

Pennsylvania

Clay and shale resources in Pennsylvania. H. Leighton. (Geological survey, 4th ser. Bul. M 23) 245p Dept. of internal affairs, Topographic and geologic survey, Harrisburg, Pa. '41

Tennessee

Probable new bentonitic clay horizon in west Tennessee. Eng & Min J 143:60-1 O '42

Washington (state)

Clays and shales of Washington. S. L. Glover. 368p bibliog(p2-5) Dept. of conservation and development, Division of geology, Olympia, Wash. '41

CLAY cleaning

Improved clay cleaning; American advance in ceramic processing. Chem Age (Lond) 46:89 F 14 '42

Magnetic percolators; cleaning clay for pottery. il diags Elec R (Lond) 130:203-4 F 13 '42

CLAY drying

Dryer stain problem. Brick & Clay Rec 101:25 Jl '42

Electrophoretic dewatering of clay. S. Speil and M. R. Thompson. bibliog Electrochem Soc Trans 81 (preprint 13):145-71 Ap '42

Testing and improving the drying behavior of clays. H. G. Schurecht and J. F. McMahon. diag Am Cer Soc J 25:422-4 O 1 '42

See also

Bricks—Drying

CLAY industries

WPB urges clay plants to produce for anticipated increased demand. Brick & Clay Rec 101:16-17 S '42

See also

Brick industry and trade
Brickmaking
Clay products
Fire brick
Glazes
Pottery

Canada

Review of 1940 Canada clay industry shows 164 plants. Brick & Clay Rec 100:52 My '42

North Carolina

Manufacturing china clay opportunities. 24p North Carolina Dept. of conservation and development, Raleigh '41

CLAY mines and mining

We cut mining costs 50% with an underground shovel; Goshen brick & clay corp. C. C. Russell. il Brick & Clay Rec 99:15-16 N '41

CLAY products

Bomb casings of vitrified clay would cut steel consumption. Brick & Clay Rec 99:36 N '41

Ceramics' big role; substitutes for war materials. Business Week p66+ My 2 '42

Ceramics help industry produce for defense; substitutes for metals. il Cer Ind 38:51-6 Ap '42

Heavy clay products; classes of products and their similarities and differences from a technical and commercial viewpoint; abstract. A. Möser. Am Cer Soc Bul 21 (Cer A 21):134 Je 15 '42

Immediate need for research in structural clay products industry. D. F. Stevens. Am Cer Soc J (Bul) 21:59-60 Ap 15 '42; Abstract. il Brick & Clay Rec 101:20 Jl '42

Relieve metal building products by using clay masonry. il diags Brick & Clay Rec 100:24-7 Ap '42

Replacing metals in construction by using clay products. il Brick & Clay Rec 99:30, 32, 34+ N '41

See also

Brickmaking
Bricks
Ceramics
Clay industries
Efflorescence
Enamel and enameling
Fire brick
Hollow tile
Pipes, Vitrified clay
Porcelain
Pottery
Stoneware
Terra cotta
Tiles

Manufacture

American ceramic society, annual meeting, Cincinnati; abstracts of structural clay products papers. Brick & Clay Rec 100:30-8 My '42

Commercial firing survey of car-tunnel kilns; with fuel cost data and comparison with electric kilns. M. S. Nelson and H. Wilson. Am Cer Soc J 25:237-40 My 1 '42

Flexibility is watchword when making complex and difficult products; the Selas company makes variety of porous porcelain filters and ceramic gas burners. il Cer Ind 39:52, 54+ S '42

Low-cost glazes for structural clay products. R. T. Stull and P. V. Johnson. pl U S Nat Bur Stand Circ C436:1-20; pa 10c Supt. of doc. '42; Abstract. Brick & Clay Rec 101:20-1 D '42

Vacuum plate setting prevents chipping and eliminates fatigue; glass-tank blocks. il Brick & Clay Rec 101:42 Ag '42

Which is the best all around kiln, the round or the rectangular? T. W. Garve. diags Brick & Clay Rec 100:29-30; Discussion. 31 Ap '42

See also

Clay products plants

Strength

Effect of steam and hot water with soda ash and a wetting agent on properties of clay. H. G. Schurecht, J. F. McMahon and C. M. Lampman. il Am Cer Soc J 25:346-51 Ag 1 '42

Expansion, contraction, and strength changes of some clays during firing. R. K. Hursh and M. K. Blanchard. il diags Am Cer Soc J 25:351-4 Ag 1 '42

CLAY products plants

Clay plants urged to investigate food dehydration possibilities. Brick & Clay Rec 101:11-12 S '42

Converting ceramic plants to war production. Cer Ind 38:50, 52 Je '42; Same. Brick & Clay Rec 100:14-15 Je '42

Flexibility is watchword when making complex and difficult products; the Selas company makes variety of porous porcelain filters and ceramic gas burners. il Cer Ind 39:52, 54+ S '42

See also

Brick works

Employees

Clay plants doing government work are subject to labor regulations. Brick & Clay Rec 101:19-20 O '42

Equipment

Annual review section. il Brick & Clay Rec 100:45-62 Ap '42

Cut production cost; how new methods and equipment conserve. il Brick & Clay Rec 100:25-36 Ja; 18-21 F; 23-5 Mr '42

High priority privileges for clay plants for equipment from pit to pugmill. Brick & Clay Rec 100:19-20 Ja '42

How three cutter attachments increased production 10%. il Brick & Clay Rec 100:19-20 Je '42

Making better terra cotta products with applied laboratory control; American terra cotta corp. il Brick & Clay Rec 99:27-8+ D '41

This firm cut power costs 60% by installing a large pulley; Standard clay products. il Brick & Clay Rec 100:42 Ja '42

Vacuum plate setting prevents chipping and eliminates fatigue; glass-tank blocks. il Brick & Clay Rec 101:42 Ag '42

See also

Kilns

Management

New equipment and simple research improve quality and reduce losses; Lehigh sewer pipe & tile co. il Brick & Clay Rec 100:22-3 F '42

CLEANING

Drycleaning department; manual of cleaning room practice. C. B. Randall. rev ed 217p $3.50 Nat. assn. of dyers and cleaners of the U.S. and Canada, Silver Spring, Md. '40

Dry cleaning, laundering, cotton textiles. C. H. Bayley. il Can Chem & Process Ind 26:47-50 Ja '42

How to prevent and remove milk deposits. L. Shere. il Food Ind 14:44-6 Je; 63-6 Jl '42

Modern fabrics; their handling, and troubles encountered in the dry cleaning plant. I. Paul. Am Dyestuff Rep 31:352-5; Discussion. 355-61 Jl 20 '42

Theories of detergency. C. G. Lane and I. H. Blank. Soap & San Chem 18:59-60 Je '42

Water repellents in drycleaning solvents. Textile Col 64:389-90 Ag '42; Same cond. Soap & San Chem 18:55 O '42

See also

Automobiles—Cleaning
Bleaching
Boiler cleaning
Car cleaning
Coal cleaning
Degreasing
Dishwashing
Dust removal
Dyes and dyeing
Factories—Cleaning
Floor cleaning
Foundries—Cleanliness
Gloves—Cleaning
Laundry
Leather—Cleaning
Lighting fixtures—Cleaning
Machinery—Cleaning
Metal cleaning
Milk cans—Cleaning
Motor buses—Cleaning
Paint—Cleaning
Paper making machinery—Cleaning
Pipes—Cleaning
Soap
Steel—Cleaning
Textile mills—Cleaning
Water pipes—Cleaning

CLEANING compositions

Acid detergent makes cans more sanitary. F. M. Scales. il Food Ind 14:51-3+ Ap '42

Alkaline cleaning solution. S. Gaddis. J Chem Educ 19:368 Ag '42

Automobile cleaners and polishes. C. T. Small. il Chem Ind 50:806-9 Je '42

Cleaners for painted and varnished surfaces. C. T. Small. il Chem Ind 51:384-6 S '42

Detergent from the wood ash of avicennia tomentosa. C. D. Mell. Textile Col 63:617-18 N '41

Detergents from petroleum; Nacconol NR as illustration. L. Flett. il Chem & Eng N 20:844-8 Jl 10 '42

Evaluation of a surface active agent for metal cleaning; Nacconol NR alone and with alkalies. O. M. Morgan and J. G. Lankler. il Ind & Eng Chem 34:1158-61 O '42

F.T.C. hits unfair disparaging of product; Columbia appliance corporation. Oil Paint & Drug Rep 141:5+ Ja 19 '42

New detergent specifications for aluminumware, dishwashing-machines, and manual cleaning. Soap & San Chem 18:37 Ja '42

New synthetic detergent; Teepol produced as a by-product of petroleum refining; abstract. Soap & San Chem 18:61 N '42

New trade marks. Published in monthly numbers of Soap and sanitary chemicals

Non-combustible fluids lower cleaning hazards. Weekly Underw 146:709+ Mr 28 '42

Phosphates in water conditioning; general detergent applications. C. Schwartz and C. J. Munter. bibliog Ind & Eng Chem 34:38-9 Ja '42

Realistic management platform for war times; B. T. Babbitt, New York. L. J. Gumpert. il Sales Management 51:18-20 Ag 15 '42

Right cleaning saves floors; cleaners for various types of factory floors. R. W. Mitchell. il Factory Management 100:105-6, 108 F '42

Role of acid detergents in food sanitation; abstract. M. E. Parker. Can Chem & Process Ind 26:587-8 O '42

Shoe polishes and cleaners. C. T. Small. il Chem Ind 50:500-4 Ap '42

Solubility of propylene vapor in water as affected by typical detergents. J. W. McBain and A. M. Soldate. Am Chem Soc J 64:1556-7 Jl '42

Solubilization of water-insoluble dye in aqueous solutions of commercial detergents. J. W. McBain and R. C. Merrill, jr. bibliog Ind & Eng Chem 34:915-19 Ag '42

Some colloid-chemical news of the year; studies of emulsions and detergents. J. J. Bikerman. bibliog Chem Age (Lond) 46:26-7 Ja 10 '42

Studies on solubilization. R. C. Merrill, jr. and J. W. McBain. bibliog J Phys Chem 46:10-19 Ja '42

Value of silicate of soda as a detergent; effect of silicates, phosphates, borax, soda ash, and caustic soda on oleate and stearate soap requirements for sudsing in hard water. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

Washing preparations; abstract. Soap & San Chem 17:67 D '41

See also

Metal cleaning
Saponins
Shampoo
Soap
Sodium hexametaphosphate
Trichloroethylene

Advertising

Advertises to share technical knowledge in all-out effort; MacDermid, incorporated. W. D. MacDermid. il Ptr Ink 198:21 Mr 6 '42

Patents

New patents. Published in monthly numbers of Soap and sanitary chemicals

Testing

Evaluation of metal-cleaning compounds; a quantitative method. O. M. Morgan and J. G. Lankler. il diag Ind & Eng Chem Anal ed 14:725-6 S 15 '42

Soap builder combinations; abstract. J. C. Harris, J. R. Eck and W. W. Cobbs. Soap & San Chem 18:59 Mr '42

Tests on washing agents; abstract. B. Walther. Soap & San Chem 18:56 Ag '42

CLEANING industry

Modern fabrics; their handling, and troubles encountered in the dry cleaning plant. I. Paul. Am Dyestuff Rep 31:352-5; Discussion. 355-61 Jl 20 '42

Insurance requirements

Non-combustible fluids lower cleaning hazards. Weekly Underw 146:709+ Mr 28 '42

CLEANING machinery

See also

Washing machines

CLEANLINESS

Shop cleanliness increases production. W. A. Faris. Ry Mech Eng 116:187 Ap '42

See also

Factories—Cleanliness
Foundries—Cleanliness
Printing offices—Cleanliness

CLEARING houses

Adjusting clearings to war conditions; San Francisco clearing house. Burroughs Clearing House 26:5 Jl '42

Dishonored items returned the day after receipt. Bankers Mo 59:250-3+ Je '42

New York clearing house association annual meeting, Oct. 6. Comm & Fin Chr 156:1433 O 22 '42

See also

Bank clearings
Banks and banking

CLEARING of land

Clearing the Grand Coulee reservoir. il Power Pl Eng 46:54-6 F '42; Same cond. Pub Works 73:28, 30 Ap '42

Clearing the Santee-Cooper. il Power Pl Eng 46:78-81 S '42

Methods of stump blasting. il diags Explosives Eng 20:299-303 O '42

CLEMSON textile school

Clemson textile school, Clemson college, S.C. il Textile Col 64:383 Ag '42

CLERGET inversion

Origin of the Clerget method. C. A. Browne. il Chem & Eng N 20:322-4 Mr 10 '42

CLERGY

Pensions

Report; Church pension fund of the Protestant Episcopal church. Comm & Fin Chr 154:1669 D 25 '41

Report of Church pension fund. Comm & Fin Chr 156:26 Jl 2 '42

CLEVELAND, Grover, 1837-1908

Hall of fame in life insurance. R. W. Sheehan. por Spectator (Life ed) 149:12-14+ S '42

CLEVELAND

Industries

Equality campaign, political pressure exerted in Cleveland. il Business Week p70-2 My 9 '42

Rapid transit

Radio communications installed at St Louis and Cleveland. il Transit J 85:416-17 N '41

Sewerage

Sludge digestion; design studies, observations and developments. W. E. Gerdel. il Water Works & Sewerage 89:409-15 O '42

CLEVELAND electric illuminating company

Hand of the SEC; because of ownership ruling, union proof utility now has an infant independent. Business Week p87 S 5 '42

CLEVELAND stock exchange

Monthly range of prices, 1941; tabulation. Comm & Fin Chr 155:473-4 Ja 29 '42

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

CLIFFS corporation

Common stock. J. A. Nelson. Comm & Fin Chr 156:1339 O 15 '42

CLIMATE

Climate and heating; effect of climate in Britain on consumption of heat; abstracts. R. Grierson. Elec R (Lond) 131:516 O 23 '42; Electrician 129:447-8 O 23 '42

Climate and man; yearbook of agriculture, 1941. bibliog il maps tables 1248p U.S. Dept. of agriculture; $1.75 Supt. of doc. '41

Climate makes the man. C. A. Mills. 320p $3 Harper '42

Indications as to climatic changes from the timberline of Mount Washington. R. F. Griggs. bibliog Science 95:515-19 My 22 '42

See also

Atmospheric temperature

Rain and rainfall

CLIMATOLOGY

Climatology; general and regional. T. A. Blair. 484p bibliog(p467-9) $5 Prentice-Hall '42

Fundamentals of physical climatology. V. Conrad. 121p bibliog(p116) pa $1.25 Harvard univ, Blue Hill meteorological observatory, Milton, Mass. '42

CLIMATOLOGY, Medical

See also

Altitude, Influence of

CLIMAX molybdenum company

Another look. Mag of Wall St 71:133 N 14 '42

Brighter outlook. K. Brandon. Barron's 21:20 D 8 '41

Climax Molybdenum for war and peace. K. Brandon. Barron's 22:7-8 Je 22 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1505 Ap 13 '42

High yield stocks with first call on earnings. G. Gordon. Mag of Wall St 70:351 Jl 11 '42

CLINICAL research, American federation for. See American federation for clinical research

CLINICS

Interstate clinic, Red Wing, Minnesota; views, plans and construction outline. Arch Forum 76:129-33 F '42

Military clinic air conditioned by absorption units. R. Latimer. il Heat & Ven 39:38 O '42

CLINKERS, Cement. See Cement clinkers

CLIONASTEROL

Location of the double bond in clionasterol. W. Bergmann and C. A. Kind. Am Chem Soc J 64:473-4 F '42

CLOCKS

War's timepieces; serious shortage is in skilled labor. Business Week p67-8 Ap 4 '42

Manufacture

Infra-red drying cuts process costs; Sessions clock company. il Elec W 117:532 F 7 '42

Infra-red speeds clock output. il Elec W 116:1918 D 13 '41

Rating

Alarm clocks; non-electric types. il Consumers' Research Bul 9:17-18 My '42

Repair

Practical benchwork for horologists. L. Levin and S. Levin. 2d ed 345p $5 for sale by E. W. Reynolds co, 315 W. 5th st, Los Angeles '42

CLOCKS, Electric

Clock-controlled governor for close speed regulation. J. C. Prescott, M. N. Karaosman. diags Inst E E J 89 pt 2:210-16 Je '42

Electric clocks at sea. S. F. Philpott. il diags Elec R (Lond) 130:35-8 Ja 9 '42

CLOSE corporations. See Corporations—Close corporations

CLOSED shop. See Open and closed shop

CLOSETS

Housing from the tenant's viewpoint; they all want more storage space; study by E. Coit. diags plans Arch Rec 91:80 Ap '42

How to modernize for improved storage space in the home. il diags Am Bld 64:80-2 S '42

CLOSURES. See Bottle caps and seals

CLOTH analysis. See Textile fabrics—Analysis

CLOTHES closets. See Closets

CLOTHING, Protective

Asbestos suit designed for rapid use. il Sci Am 167:73 Ag '42

Clothing for the job. il Nat Safety N 45:20-1 Mr '42

Oil proof aprons and gloves find many uses. il Sci Am 167:32-3 Jl '42

Priorities on safety equipment as they concern the electric utilities; masks, protective clothing, etc. J. B. Davies. Edison Elec Inst Bul 10:97-8 Mr '42

Protection for welding operators; protective lenses and clothing. B. C. Tracey. il Iron Age 149:67-9 Mr 26 '42

Safety clothing for women. il Factory Management 100:64-5 Mr '42

Safety clothing for women in industry. il U S Women's Bur Special Bul 3:1-11; pa 10c Supt. of doc. '41; Abstract. Safety Eng 83:15-16 Mr '42

Sold at the start; new employees learn the value of personal protection; Hawthorne works of Western electric company. il Nat Safety N 45:8-9+ Mr '42

Take it easy; how to make your safety equipment last longer. A. O. Boniface. Safety Eng 84:26, 28-30 O '42

See also

Shoes, Safety

CLOTHING and dress

Arctic raiment; demand of QMC for new cold-weather clothing. Business Week p48+ O 31 '42

Art in home and dress. new ed M. B. Trilling and F. Williams. 527p bibliog(p516-24) $2.20 Lippincott '42

Color and design in apparel. B. G. Chambers. 627p bibliog(p579-84) $4.75 Prentice-Hall '42

Color and line in dress. L. Hempstead. rev ed 350p $3 Prentice-Hall '38

Family expenditures for clothing, five regions. D. Monroe and others. il diags map U S Agric Misc Pub 428:1-387 '41

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Hemline of battle; women's clothing industry adapts itself to WPB regulations. Business Week p32-4 Ap 18 '42

How to dress in wartime. W. Raushenbush. 198p $2 Coward-McCann, 2 W. 45th st, New York '42

Hygroscopic properties of clothing in relation to human heat loss. J. H. Nelbach and L. P. Herrington. Science 95:387-8 Ap 10 '42

Modern pattern design; the complete guide to the creation of patterns as a means of designing smart wearing apparel. H. Pepin. 253p $6 Funk & Wagnalls co, 354 4th av, New York '42

Practical system of units for the description of the heat exchange of man with his environment. A. P. Gagge, A. C. Burton and H. C. Bazett. Science 94:428-30 N 7 '41; Abstract. Heat & Ven 39:33 F '42

War fashions in clothing. Barron's 22:5 Mr 9 '42

What the well-dressed woman will wear in line of war-time duty; Traphagen work and utility garments. il Rayon 23:143 Mr '42

Why is a dress? E. Hawes. 184p $2 Viking press '42

CLOTHING and dress—*Continued*

Your clothes and personality. M. G. Ryan. rev ed 409p bibliog(p371-9) $1.88 Appleton-Century '42

See also

Clothing, Protective
Costume
Fashion
Hats
Hosiery
Textile fabrics
Underwear
Uniforms

Manufacture

How army is clad; operations of Philadelphia quartermaster depot. il Business Week p40+ O 31 '42

Prices

Clothing and house furnishings allowances; prices for San Francisco, March, 1942. 49 numb l pa 50c Univ. of California press, Berkeley '42

Price order arouses discussion on need of defining quality; OPA order on women's outerwear. Ind Stand 13:205-6 Jl '42

Rationing

Clothes ration adjustments. Economist 141:761 D 20 '41

Clothes rationing in Eire. Economist 142:894 Je 27 '42

Clothes rationing, 1941; with table of clothing coupon ratings. Economist 142:sup29 Mr 14 '42

Clothing coupon value changes. Economist 143:494 O 17 '42

Clothing ration. Economist 142:728, 858 My 23, Je 20 '42

Extension of rationing and price control in Great Britain. Monthly Labor R 54:1222-3 My '42

John Bull's rations. Business Week p34, 39-41+ Ja 31 '42

Less clothing. Economist 142:387-8 Mr 21 '42

Rationing in wartime. J. Backman. J Retailing 17:102-3 D '41

Rationing of clothing in Ireland. For Comm W 8:20 Jl 18 '42

Specification of rayon fabrics to be included in the schedule of utility cloths under the limitation of supply (C & A) orders. W. A. Dickie. Textile Inst J 33:P85-7 Je '42

Standards

British develop clothing standards as result of rationing program. Ind Stand 13:207-8 Jl '42

10,000 women are measured for study on garment sizes. Ind Stand 13:96-7 Ap '42

CLOTHING trade

Chain goes co-ed; will add women's suits and coats. Business Week p88 O 24 '42

Job descriptions for the garment manufacturing industry. 237p bibliog(pxxxvii-xxxix) U.S. Employment service, Washington; $1 Supt. of doc. '41

Lady in coveralls wooed by sellers. E. Johns. il Ptr Ink 201:21-3+ O 16 '42

Merchandising of fashions; policies and methods of successful specialty stores. J. B. Swinney. 397p $4 Ronald press '42

Minimizing inventory losses in the men's wear division of the wool-textile industry; an appraisal of the policy of manufacturing styled finished goods to order. R. B. Armstrong. 40p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

Salesmen make new customers, save rubber, gasoline and time; reversion to old-time hotel sample room. Ptr Ink 200:24 S 25 '42

See also

Clothing and dress
Dress industry
Men's suiting fabrics
Men's suits
Underwear
Work clothes

Advertising

Hart, Schaffner & Marx sells civilian clothes to men in khaki. il Sales Management 51:56 S 15 '42

Sellers' market? then we push harder, says Printz-Biederman. il Sales Management 51:58 S 15 '42

Directories

Gold book directory of men's apparel, 1942-1943. 356p pa 50c Men's apparel reporter, 350 5th av, New York '42

Labor conditions

Needle trades. J. Seidman. 356p bibliog(p321-32) $2.50 Farrar '42

Regulation

Hemline of battle; women's clothing industry adapts itself to WPB regulations. Business Week p32-4 Ap 18 '42

See also

Clothing—Rationing

Great Britain

Clothing statistics; effects of clothes rationing. Economist 143:118-19 Jl 25 '42

Control of supplies and prices of utility apparel. For Comm W 5:17 N 29 '41

Economic curiosity; clothes coupons and maximum profit margins. Economist 143:266 Ag 29 '42

More economy; steps to provide utility clothing at reasonably low prices. Economist 142:316-17, 338 Mr 7 '42

Utility clothing. Economist 142:198 F 7 '42

Utility clothing scheme. Economist 141:515-16 O 25 '41

New York (city)

Trends in the New York clothing industry; a study undertaken for the Mayor's business advisory committee and the Committee of fifteen. L. A. Drake and C. Glasser. 181p bibliog(p171-81) $2 Inst. of public administration, 261 Broadway, New York '42

United States

Hidden inflation; manufacturers seek salvation in long-margin lines or in lower quality. Business Week p17-18 Je 27 '42

Overall jackpot. Business Week p56-7+ Mr 14 '42

CLOUD chambers

Beta-ray spectra of arsenic, rubidium, and krypton. G. L. Weil. bibliog diag Phys R 62:229-37 S 1 '42

Cloud-chamber photographs at 4310 meters altitude. W. H. Bostick. bibliog il diag Phys R 61:557-64 My 1 '42

Cloud-chamber study of collision electrons in equilibrium with mesons. L. Seren. bibliog il diags Phys R 62:204-14 S 1 '42

Cloud-chamber track of a mesotron stopped by gas. T. H. Johnson and R. P. Shutt. bibliog il Phys R 61:380-1 Mr 1 '42; Same. Franklin Inst J 234:86-9 Jl '42

Optimum liquid combinations for cloud chambers. C. Beck. diag R Sci Instr 12:602-6 D '41

Some operating characteristics of the Wilson cloud chamber. W. E. Hazen. bibliog il diag R Sci Instr 13:247-57 Je '42

Stars and slow protons at 14,125 feet. W. M. Powell. Phys R 61:670 My 1 '42

CLOUD point

Cloud point of varnish resins in drying oils. P. O. Powers. bibliog Ind & Eng Chem Anal ed 14:387-91 My 15 '42

CLOUDS

Cinematography in the Hollywood studios (1942); putting clouds into exterior scenes. C. G. Clarke. Soc Motion Picture Eng J 39:92-6 Ag '42

Clouds, air and wind. E. Sloane. 75p $2.50 Devin-Adair co, New York '41

CLOVE

Zanzibar clove exports, 1941. For Comm W 7:22 Ap 25 '42

Zanzibar's clove production. For Comm W 9:25-6 O 10 '42

CLOVE oil

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:60 N 9 '42

CLOVER

Mechanism of biological nitrogen fixation; carbon monoxide as an inhibitor for nitrogen fixation by red clover. C. J. Lind and P. W. Wilson. bibliog Am Chem Soc J 63:3511-14 D '41

CLUB mosses

Study of arborescent lycopod leaves associated with lepidodendron selaginoides Sternberg stems in Iowa coal balls. L. R. Wilson and I. Tillapaugh. diags Am J Sci 240:394-402 Je '42

CLUBHOUSES

USO buildings. il plans Arch Forum 77:89-92 Jl '42

See also
Night clubs

Electric equipment

Club's converted kitchen pays. C. L. Hoffman. il Elec West 89:54 Ag '42

CLUBS

See also
Employees' clubs

CLUETT, Peabody and company, inc.

Another look at your company. Mag of Wall St 70:76 My 2 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1505 Ap 13 '42

CLUTCHES

Clutch and brake mechanism for Steelweld presses. il Mach 48:171 Ja '42

Clutch mechanism; shaft within the gear head casing of a coal-cutting machine; patent. diag Mech Handling 29:151-2 Ag '42

Clutches and power takeoffs. diags Power Pl Eng 46:94 Ja '42

Clutches welded oil-tight automatically. il Steel 110:62 Mr 23 '42

Combined bearing and one-way clutch. diags Automotive & Aviation Ind 86:47 Ap 15 '42

Combined slip and positive clutch; patent assigned to Felt & Tarrant manufacturing co. for use in mechanism of calculating machines. diag Machine Design 14:210+ Ap '42

Constant-torque friction clutch for film take-up. W. Hotine. diag Soc Motion Picture Eng J 38:256-61 Mr '42

Improved air clutch for forging machines. il Comp Air M 47:6720 Ap '42

Micarta repairs screw machine clutch. J. L. Witchey. diags Am Mach 86:956 S 3 '42

Overload release clutch mechanism; automatic machine for formed wire product. L. Kasper. diags Mach 48:143 D '41

Sintered metals in friction devices. E. F. Cone. bibliog il diag Metals & Alloys 14:843-50 D '41

Welded strap ends; simplified design for brake and clutch bands. G. Johansson. diags Product Eng 13:262-5 My '42

See also
Automobiles—Clutches

COAGULATION

See also
Blood—Coagulation
Colloids
Water purification—Coagulation

COAGULATION, Heat of

Heat of coagulation of silica and its bearing on the structure of silica gels. A. R. Tourky. bibliog Chem & Ind 61:254-5 Je 6 '42

COAL

Absorption of liquids by coal; application of radiographic methods to the problem. G. W. Land. bibliog il Ind & Eng Chem 34:1078-82 S '42

Better utilization of coal. E. G. Bailey. Mech Eng 64:301-6 Ap '42

Chemists probe hydrogenation, Diesels, oxidation and oiling of coal; meeting of the Division of gas and fuel chemistry, American chemical society. Coal Age 47:74+ My '42

Coal follows through; fuel situation. E. G. Bailey. Mech Eng 64:771-2+ N '42; Same. Min & Met 23:547-50 N '42; Excerpts. Blast F & Steel Pl 30:1276, 1278 N '42; Abstract. Concrete (mill sec) 50:282-3 D '42

Coal paleobotany. R. Thiessen and G. C. Sprunk. pls U S Bur Mines Tech Pa 631:1-56; pa 15c Supt. of doc. '41

Coal used in soil conditioner planned for eastern output. Coal Age 47:87-8 Ag '42

Combustion and research questions analyzed at West Virginia fuel conference. Coal Age 47:87-8+ S '42

Every coal consumer can aid victory by all-out conservation; abstract. T. J. Thomas. il Heating-Piping 14:407 Jl '42

Experiences in briquetting coking coal; Brazeau collieries, ltd. J. Shanks. flow sheet il plan Min Cong J 28:45-7 Ap '42

For the small plant; coal storage and handling. C. F. Hardy. il Power Pl Eng 46:62-4 Jl '42

Hand-firing of bituminous coal in the home. A. P. Kratz, J. R. Fellows and J. C. Miles. il diags Ill U Eng Exp Sta Circ 46:3-33 '42 (pa 25c)

Much progress made in better utilization of coal as fuel. L. A. Shipman. il Min & Met 23:104-5 F '42

Papers presented at the sixth short course in coal utilization, held at the University of Illinois, May 21-23, 1941. il diags Ill U Eng Exp Sta Circ 43:1-112 '42 (pa 50c)

Report of the Nonmetals division, fiscal year 1941. O. C. Ralston and A. G. Stern. pls U S Bur Mines Rep of Invest 3599:11-18 '41

Selection of anthracite for water-gas operations. L. L. Newman. Gas Age 89:19-22+ Je 18 '42

Sizable coal use other than as fuel reported to American chemical society at Buffalo; symposium on uses of coal by various industries. Coal Age 47:156-62+ O '42

Smoke abatement; a problem for the whole coal industry. W. G. Christy. Min & Met 23:209 Ap '42

Steam generation with available fuels. O. de Lorenzi. Steel 111:82, 100-3 O 19; 80, 82+ O 26 '42

Use of anthracite in heavy oil water-gas operation at Pottsville. L. L. Newman and C. C. Wright. il Am Gas Assn Mo 24:33-7 Ja '42

West Virginia coal meeting covers vital fuel needs. Power Pl Eng 46:112+ S '42

What coal equivalents do to fuel performance records; report of Fuel and traveling engineers' committee. Ry Age 113:692-3+ O 31 '42; Same. Ry Mech Eng 116:487-9 N '42

See also
Boilers—Firing
Coal distillation
Coal liquefaction
Coal mines and mining
Coal preparation
Coal trade
Coalite
Coke
Fuel
Gas
Lignite
Locomotives—Fuel

Analysis

Analyses of West Virginia coals. U S Bur Mines Tech Pa 626:1-341 '42

Buying and checking fuel. R. E. Hieronymus. il Heating-Piping 14:96-9 F '42

Coal analyses and their relation to combustion characteristics. J. L. G. Weysser. In Ill U Eng Exp Sta Circ 43:72-82 '42

Determination of ash in coals unusually high in calcite and pyrite. O. W. Rees and W. A. Selvig. Ind & Eng Chem Anal ed 14:209-12 Mr 15 '42

Determining the fusain content of Illinois coals; comparison of chemical and petrographic methods. B. C. Parks, G. W. Land and O. W. Rees. Ind & Eng Chem Anal ed 14:303-5 Ap 15 '42

Equipment for determining moisture in coal; new type of equipment. O. W. Rees and K. F. Bursack. il Ind & Eng Chem Anal ed 14:729-31 S 15 '42

COAL—Analysis—*Continued*

Methods of analysis of coal and coke. 85p Great Britain Dept. of scientific and industrial research. Fuel research board, London '40; $1.50 Chemical pub. co. '41

Mineral matter in coal. G. C. Sprunk and H. J. O'Donnell. il Min Cong J 28:20-3+ Je '42

Rapid method for coal analysis. R. Belcher and C. E. Spooner. diag Power Pl Eng 46:58-9 F '42

Typical analyses of coals of the United States. A. C. Fieldner, W. E. Rice and H. E. Moran. pl U S Bur Mines Bul 446:1-45 '42

Volumetric determination of sulfur in coal and coke. S. S. Tomkins. bibliog Ind & Eng Chem Anal ed 14:141-5 F 15 '42

Ash content

See Coal ash

Bibliography

Bibliography of Bureau of mines investigations of coal and its products, 1935 to 1940. A. C. Fieldner. U S Bur Mines Tech Pa 639:1-43; pa 10c Supt. of doc. '42

Calorific value

Various B.t.u. values of a coal. J. F. Barkley and L. R. Burdick. U S Bur Mines Information Circ 7193:1-26 '41

Chemistry

Molecular weights of hydrogenolysis products from a Pittsburgh seam bituminous coal. J. F. Weiler, J. J. Ward and H. C. Howard. Am Chem Soc J 64:734-6 Ap '42

Oxidizing power of Illinois coal; the effects of extended time. G. R. Yohe and M. H. Wilt. bibliog Am Chem Soc J 64:1809-11 Ag '42

Theory of coal pyrolysis. W. Fuchs and A. G. Sandhoff. bibliog il Ind & Eng Chem 34: 567-71 My '42

Geology

Jointing in the coal beds of Ohio. K. Ver Steeg. Science 96:83 Jl 24 '42

Jointing in the coal beds of Ohio. K. Ver Steeg. map Econ Geol 37:503-9 S '42

See also
Coal balls

Liquefaction

See Coal liquefaction

Moisture content

Equipment for determining moisture in coal; new type of equipment. O. W. Rees and K. F. Bursack. il Ind & Eng Chem Anal ed 14:729-31 S 15 '42

Surface moisture on coal affects both the mechanics of preparation and marketing; abstract. C. S. Westerberg. Coal Age 47:81-3 Jl '42

Technical and economic study of drying lignite and subbituminous coal by the Fleissner process. L. C. Harrington, V. F. Parry and A. Koth. il diags U S Bur Mines Tech Pa 633:1-84; pa 20c Supt. of doc. '42

Plasticity

Plastic and swelling properties of bituminous coking coals. R. E. Brewer. diags U S Bur Mines Bul 445:1-260 bibliog(324 titles, p243-58); pa 30c Supt. of doc. '42

Prices

Bituminous mine realizations and cost released by Coal division. Coal Age 47:74-5 Mr '42

Coal prices, December and year 1941. Monthly Labor R 54:790-3 Mr '42

Higher coal prices. Economist 143:39 Jl 11 '42

Lease-mine coal is subject to Coal act. Comm & Fin Chr 154:1672 D 25 '41

Maximum coal prices set by Henderson office. Coal Age 47:49 Je '42

New minimum bituminous prices established. Coal Age 47:63 O '42

Purchasing

See Coal purchasing

Rationing

Brazilian coal rationing established. For Comm W 9:15-16 O 17 '42

Fuel rations. Economist 142:855-6 Je 20 '42

Sulfur content

Rapid method for coal analysis. R. Belcher and C. E. Spooner. diag Power Pl Eng 46: 58-9 F '42

Swelling

By-product oven operation under present day conditions. W. T. Brown. il Blast F & Steel Pl 30:68-71 Ja '42

Expansion of coal during coking. J. T. McCartney and J. D. Davis. bibliog pls U S Bur Mines Rep of Invest 3644:1-23 '42

Plan to improve blast furnace coke; selection of coking coals. W. T. Brown. diag maps Blast F & Steel Pl 30:1137-45, 1255-63 O-N '42

Plastic and swelling properties of bituminous coking coals. R. E. Brewer. diags U S Bur Mines Bul 445:1-260 bibliog(324 titles, p243-58); pa 30c Supt. of doc. '42

Studies concerning the pressure developed during the carbonization of coal. W. Fuchs and others. (Mineral industries exp. sta. bul. 34) 47p bibliog(p46-7) pa 50c Pennsylvania state college, State College, Pa. '41

Testing

Carbonizing properties and petrographic composition of Bakerstown-bed coal from no. 23 mine, Coketon, Tucker county, W.Va., and the effect of blending this coal with Pittsburgh-bed (Warden mine) coal. J. D. Davis and others. il diags U S Bur Mines Tech Pa 644:1-46 '42

Carbonizing properties and petrographic composition of Lower Hignite-bed coal from the Atlas mine, Middlesboro, Bell county, Ky. and the effect of blending this coal with Pocahontas no. 3 and no. 4 bed coals. J. D. Davis and others. U S Bur Mines Tech Pa 634:1-47 bibliog(p45-7) '42

Carbonizing properties and petrographic composition of Powellton-bed coal from Elk Creek no. 1, Emmett, Logan county, W. Va., and the effect of blending this coal with Pocahontas no. 3- and no. 4-bed coals. J. D. Davis and others. bibliog il U S Bur Mines Tech Pa 630:1-45; pa 10c Supt. of doc. '41

Correlation of domestic stoker combustion with laboratory tests and types of fuels; preliminary studies. L. C. McCabe, S. Konzo and O. W. Rees. (Report of investigations 78) 20p State geological survey, Urbana, Ill. '42

Domestic stoker for bituminous coal; stoker designed to burn highly coking slacks and small sizes. S. W. Guthrie. il diag Mech Eng 64:599-603 Ag '42

Index of coals tested in the Bureau of mines survey of carbonizing properties of American coals. J. E. Wilson and J. D. Davis. U S Bur Mines Tech Pa 637:1-10(bibliog, p7-10) pa 5c Supt. of doc. '42

Midland coke research committee; report of progress during 1940. Chem & Ind 60:845-8 N 29 '41

Physical properties of cokes from Bureau of mines-American gas association tests at 800° and 900°C. D. A. Reynolds and C. R. Holmes. U S Bur Mines Rep of Invest 3650: 1-14 '42

Plastic and swelling properties of bituminous coking coals. R. E. Brewer. diags U S Bur Mines Bul 445:1-260 bibliog(324 titles, p243-58); pa 30c Supt. of doc. '42

Resistance of anthracite to mechanical and thermal shock. C. C. Wright, L. L. Newman and A. W. Gauger. (Mineral industries exp. station bul. 31) 27p Pennsylvania state college, School of mineral industries, State College, Pa. '41

Selection of coals for coke making. J. D. Davis. bibliog pls U S Bur Mines Rep of Invest 3601:1-29 '42

COAL—Testing—*Continued*

Selection of coals for war-time carbonization by means of an improved engineering model of the coke oven; apparatus for studying stresses, strains and other coal characteristics during coking. J. H. Swiniarski, M. C. Cryan and V. J. Altieri. il plan diag Gas Age 89:14-15 Je 18 '42

Size consist, chemical analysis, and physical properties of 2-½-inch subbituminous slack from the Denver (Colo.) region. V. F. Parry and W. S. Landers. pls U S Bur Mines Rep of Invest 3655:1-30 '42

Study of the grindability of coal and the fineness of pulverized coal when using the Lea-Nurse air permeability method for evaluating the subsieve fractions. J. B. Romer. bibliog diag Am Soc T M Proc 41: 1152-66; Discussion. 1167-71 '41

Test results on the use of anthracite in heavy-oil water-gas operation at the Pottsville gas works. L. L. Newman, C. C. Wright and A. W. Gauger. (Mineral industries exp. station bul. 32) 59p Pennsylvania state college, School of mineral industries, State College, Pa. '41

Various B.t.u. values of a coal. J. F. Barkley and L. R. Burdick. U S Bur Mines Information Circ 7193:1-26 '41

Where medium-grade coals should be preferred. E. G. Bailey. diags Coal Age 47:87-8+ S '42

Transportation

Big coal movement into New England. Ry Age 113:348+ Ag 29 '42

Coal for the country's furnaces; Western Maryland contributes to the war effort. il map Ry Age 112:948-51 My 16 '42

Coal handling changes cut costs and increase capacity; Mississippi River improvement makes available coal from three additional districts; new storage and handling facilities. P. Woodnorth. il plan Power Pl Eng 46:60-2 Mr '42

Coal via Chicago; new competition for up-lake cargo trade. Business Week p44-5 D 6 '41

Lake-opening; ore and coal fleets ready for record-breaking season. il Business Week p17-18 Mr 21 '42

New rates for transporting coal. Marine Eng 47:171 Ap '42

Norfolk & Western is ready; operating efficiency and planning. il Ry Age 111:941-5 D 6 '41

Washed oil-treated coal, plus capacity and fast truck loading feature Burning Star agency. il Coal Age 47:76-7 Je '42

Why store coal now? R. E. Turner. maps Power Pl Eng 46:54-7 Jl '42

See also
Coal cars
Coal handling

Weighing

See Coal weighing

Colorado

Size consist, chemical analysis, and physical properties of 2-½-inch subbituminous slack from the Denver (Colo.) region. V. F. Parry and W. S. Landers. pls U S Bur Mines Rep of Invest 3655:1-30 '42

Subbituminous slack from the northern Coloradio field; abstract. V. F. Parry and W. S. Landers. Coal Age 47:83+ Jl '42

Great Britain

Carbonization of Durham coals in continuous vertical retorts. H. Greenwood. Gas J (Lond) 239:318 Ag 26 '42; Discussion. 239: 471+ S 23 '42

Illinois

Burning Illinois coal smokelessly in hand-fired heating plants. J. R. Fellows and J. C. Miles. il diag In Ill U Eng Exp Sta Circ 43:83-99 '42

Oxidizing power of Illinois coal. G. R. Yohe, C. A. Harman and M. H. Wilt. bibliog Am Chem Soc J 63:555-6; 64:1809-11 F '41, Ag '42

Iowa

Experimental plant at University of Iowa produces excellent stoker fuel from Iowa screenings. H. L. Olin and others. il Coal Age 47:67-71 Je '42

Kentucky

Carbonizing properties and petrographic composition of Lower Hignite-bed coal from the Atlas mine, Middlesboro, Bell county, and the effect of blending this coal with Pocahontas no. 3 and no. 4 bed coals. J. D. Davis and others. U S Bur Mines Tech Pa 634:1-47 bibliog(p45-7) '42

Ohio

Jointing in the coal beds of Ohio. K. Ver Steeg. Science 96:83 Jl 24 '42

Jointing in the coal beds of Ohio. K. Ver Steeg. map Econ Geol 37:503-9 S '42

Pennsylvania

Domestic stoker for bituminous coal; stoker designed to burn highly coking slacks and small sizes. S. W. Guthrie. il diag Mech Eng 64:599-603 Ag '42

Dredging Pennsylvania anthracite. J. A. Corgan. pls map U S Bur Mines Information Circ 7213:1-25 '42

Effect of changes in moisture and temperature on mine roof; first report on strata overlying the Pittsburgh coal bed. I. Hartmann and H. P. Greenwald. bibliog pls U S Bur Mines Rep of Invest 3588:1-38 '41

Plan to improve blast furnace coke; selection of coking coals. W. T. Brown. diag maps Blast F & Steel Pl 30:1137-45, 1255-63 O-N '42

See also
Coal mines and mining—Pennsylvania

United States

Coal, petroleum, natural gas, and electricity in the United States, 1929-40. J. R. Bradley. U S Bur Mines Information Circ 7189: 1-26 '41

Typical analyses of coals of the United States. A. C. Fieldner, W. E. Rice and H. E. Moran. pl U S Bur Mines Bul 446: 1-45 '42

See also
Coal miners—United States
Coal mines and mining—United States
Coal trade—United States

Utah

American source of natural resins for the paint and varnish industry; fossil resins recently discovered in Utah. A. Nagelvoort. flow sheet il map Chem & Met Eng 49:80-2 O '42

Virginia

Plan to improve blast furnace coke; selection of coking coals. W. T. Brown. diag maps Blast F & Steel Pl 30:1137-45, 1255-63 O-N '42

West Virginia

Analyses of West Virginia coals. U S Bur Mines Tech Pa 626:1-341 '42

Carbonizing properties and petrographic composition of Bakerstown-bed coal from no. 23 mine, Coketon, Tucker county, and the effect of blending this coal with Pittsburgh-bed (Warden mine) coal. J. D. Davis and others. il diags U S Bur Mines Tech Pa 644:1-46 '42

Carbonizing properties and petrographic composition of Powellton-bed coal from Elk Creek no. 1 mine, Emmett, Logan county, W. Va., and the effect of blending this coal with Pocahontas no. 3- and no. 4-bed coals. J. D. Davis and others. bibliog il U S Bur Mines Tech Pa 630:1-45; pa 10c Supt. of doc. '41

Plan to improve blast furnace coke; selection of coking coals. W. T. Brown. diag maps Blast F & Steel Pl 30:1137-45, 1255-63 O-N '42

COAL—*Continued*

Wyoming

Geology and oil and coal resources of the region south of Cody Park county, Wyoming. W. G. Pierce and D. A. Andrews. diags map U S Geol S Bul 921-B:99-180, pl 11-24; pa $1 Supt. of doc. '41

COAL, Pulverized

Adjustments to pulverized coal burners and furnaces required by various coals. O. Craig. Concrete (mill sec) 50:127 F '42

Adjustments to pulverized coal burners required by various coals. F. G. Ely. Concrete (mill sec) 50:140-2 Mr '42

Better utilization of coal. E. G. Bailey. Mech Eng 64:301-6 Ap '42

Operating pulverized coal systems with safety and efficiency. il Concrete (mill sec) 50: 262-5+ N '42 (to be cont)

Pulverized coal in high-temperature furnaces. C. F. Herrington. il diag Steel 110: 62-3+ Je 1 '42

Steam generation with available fuels. O. de Lorenzi. Steel 111:82, 100-3 O 19; 80, 82+ O 26 '42

See also

Boilers—Pulverized coal firing

Preparation

Adapting automatic combustion control to the characteristics of pulverizers. W. H. Pugsley. Blast F & Steel Pl 30:895-8 Ag '42

Coal pulverized by steam guns; abstract. Mech Eng 64:483-4 Je '42

Cut fuel costs and improve clinker; methods of kiln operation, Alpha portland cement co. B. Nordberg. il diags plans Rock Prod 45:41-2 Mr '42

Filters clean air to pulverizer seal, Iowa electric light & power company. il Elec W 118:466+ Ag 8 '42

More steam; how? pulverizer operation. A. Iddles. Elec W 118:476+ Ag 8 '42

New high pressure boilers in South Wales; pulverising equipment. H. V. Pugh. diags Mech Handling 28:237-9 N '41

Newell pulverized fuel equipment. il Mech Handling 29:70 Ap '42

Powders and cleans coal by blasting its pores by a release of steam. Coal Age 47: 59 Je '42; Heating-Piping 14:472 Ag '42

Pulverisation of coal by high-pressure steam. Engineering 154:145 Ag 21 '42

Pulverizer capacity, fineness and moisture. A. C. Foster. diag Power Pl Eng 46:66-7 Ja '42

Testing

Study of the grindability of coal and the fineness of pulverized coal when using the Lea-Nurse permeability method for evaluating the subsieve fractions. J. B. Romer. bibliog diag Am Soc T M Proc 41:1152-66; Discussion. 1167-71 '41

COAL ash

Ash control in coal washing plants. P. W. F. J. Moran. il In Ill U Eng Exp Sta Circ 43:29-34 '42

Determination of ash in coals unusually high in calcite and pyrite. O. W. Rees and W. A. Selvig. Ind & Eng Chem Anal ed 14: 209-12 Mr 15 '42

Preparation of refractory and of coal-ash test cones. R. J. Smith. Am Cer Soc J 25:282 Je 1 '42

COAL balls

Study of arborescent lycopod leaves associated with lepidodendron selaginoides Sternberg stems in Iowa coal balls. L. R. Wilson and I. Tillapaugh. diags Am J Sci 240:394-402 Je '42

COAL bins

Storage of subbituminous coal in bins. V. F. Parry and J. B. Goodman. pl U S Bur Mines Rep of Invest 3587:1-10 '41

Suspension bunkers; chart for figuring the relations between capacities, widths, sag, length of curve, etc. Mech Handling 29: 5-6 Ja '42

COAL bins, Concrete

Taking full advantage of sliding forms gains speed and economy. S. W. Galloway. il Concrete 50:2-3 S '42

COAL burning equipment

Anthracite in fireplaces. il Sheet Metal Worker 33:38 O '42

Coal follows through; fuel situation. E. G. Bailey. Mech Eng 64:771-2+ N '42; Same. Min & Met 23:547-50 N '42; Excerpts. Blast F & Steel Pl 30:1276, 1278 N '42; Abstract. Concrete (mill sec) 50:282-3 D '42

Commercial, institutional, and industrial buildings must convert to coal if facilities are available. P. M. O'Leary. Heating-Piping 14:620 O '42

Contractor is headquarters for conservation. il Dom Eng 160:42-3 O '42

Conversion from oil to anthracite. Am Bld 64:79-80 O '42

Converting from oil to coal. diags Dom Eng 160:45 S '42

Converting oil heaters to coal. il diag Sheet Metal Worker 33:40+ Jl; 34 Ag '42

East's fuel oil deliveries halved, WPB points switch to coal. Coal Age 47:47 Je '42

Equipment for conversion and conservation. W. W. Timmis. Heating-Piping 14:564-5 S '42

Figuring heat balance, anthracite burning equipment; reference data. R. A. Krauss. Heat & Ven 39:114a-114b Ja '42

From oil to coal. D. M. Myers. il diags Factory Management 100:121-8 S '42

Many obstacles prevent home owners from converting oil burners to coal. A. M. Petty. il Nat Pet N 34:27-8 Jl 8 '42

Oil-to-coal conversion situation. Sheet Metal Worker 33:42 Ag '42

Oil to coal in wartime. il diags Power 86: 696-702 O '42

Principal function of pulverized-coal burners. H. Kreisinger and V. Z. Caracristi. il diags Mech Eng 64:365-8 My '42

Steam generation with available fuels. O. de Lorenzi. Steel 111:82, 100-3 O 19; 80, 82+ O 26 '42

Study of a conversion grate for oil burning plants. R. C. Cross. il Heat & Ven 39:56-60 O '42

Survey shows few easterners have converted to burn coal. Nat Pet N 34:8 Ag 12 '42

Technical developments in the coal space heater. H. A. Eggert. In Ill U Eng Exp Sta Circ 43:13-18 '42

Washington takes the lead on conversion; U.S. senators make special statements. il Dom Eng 160:40-1+ O '42

COAL cars

Increasing coal car capacity by shaking down the load; experiments with loading bin subjected to vibration. G. F. MacGowan. Ry Age 112:1149-50 Je 13 '42

More coal-hauling capacity for Chesapeake & Ohio. il Ry Age 112:1116-17 Je 6 '42

Thousands of coal cars to keep munitions plants running; American car and foundry co. C. O. Herb. il Mach 48:134-41 Ap '42

COAL cleaning

Cleaning coking coals. J. Griffen. Steel 110: 80+ Mr 2 '42

Development of air-cleaning equipment; abstract. D. R. Mitchell. Coal Age 47:93 Mr '42

Lighting on colliery picking belts. C. S. Chubb. Mech Handling 29:50 Mr '42

Mechanical cleaning, 1941. Coal Age 47:71-3 F '42

New developments in air cleaning of coal. W. C. McCulloch. In Ill U Eng Exp Sta Circ 43:25-8 '42

Sales of mechanical loading and cleaning equipment for use in coal mines in 1941. W. H. Young and others. il Min Cong J 28:22-5 F '42; Same. Coal Age 47:66-8 F '42

See also

Coal preparation

Coal washing

COAL cutters

Clutch mechanism; shaft within the gear head casing of a coal-cutting machine; patent. diag Mech Handling 29:151-2 Ag '42

COAL cutters—*Continued*

Coal cutting machines; patent specification. diags Mech Handling 29:94-5 My '42

Cutter chain safety device dropped by clutch lever. H. Caldwell. il Coal Age 46:68 N '41

Gummers on coal cutting machines. il Mech Handling 29:155-6 Ag '42

War maintenance; mining machines. il Coal Age 47:83-4 O '42

Water-tank shortwall spraying. D. H. Davis. Coal Age 47:58-9 Jl '42

COAL delivery

Less coal-toting; Chicago dealers pool their facilities. Business Week p62+ O 3 '42

COAL distillation

Coal carbonisation industries in 1941. G. E. Foxwell. Chem Age (Lond) 46:31-2 Ja 10 '42

Hydrogen from lignite; other products from char produced by low temperature carbonization. W. B. Pratt. Min Cong J 28:16-17 Mr '42

Low temperature carbonization; narrow brick retorts; abstract. J. F. Shaw. Am Cer Soc J 25 (Cer A 21):43-4 F 1 '42

Primary gaseous products of carbonisation. K. Bolton and others. Chem Soc J p252-63 Ap '42

Studies concerning the pressure developed during the carbonization of coal. W. Fuchs and others. (Mineral industries exp. sta. bul. 34) 47p bibliog(p46-7) pa 50c Pennsylvania state college, State College, Pa. '41

See also

Coal liquefaction

Coke manufacture

Gas manufacture

Disco process

Carbonization of coal by the Disco process. C. E. Lesher. In Ill U Eng Exp Sta Circ 43:35-40 '42

Electric heating

Bibliography

Electrical carbonization of coal; a bibliography, 1900-1940. H. Stevens. 24p H. Stevens, 32 Ehrman av, Cincinnati '41

COAL dredging

Dredging Pennsylvania anthracite. J. A. Corgan. pls map U S Bur Mines Information Circ 7213:1-25 '42

Mining coal in the Ohio river; cleaning plant floats along side of dredge. E. Drennen. il diag map Min Cong J 28:38-41 S '42

COAL drying

Coal drying and other auxiliaries of preparation. J. Hyslop. Min Cong J 28:46 Je '42

Roto-Louvre coal dryers. il diags Mech Handling 28:252 N '41

Technical and economic study of drying lignite and subbituminous coal by the Fleissner process. L. C. Harrington, V. F. Parry and A. Koth. il diags U S Bur Mines Tech Pa 633:1-84; pa 20c Supt. of doc. '42

COAL dust

Allaying coal dust at Island Creek coal company mines. J. A. Saxe. plan Min Cong J 28:15-17+ Ja '42

Coal dust allaying in cutting, loading and transportation. J. C. Johnston. il Min Cong J 28:49 Je '42

Coal dust underground where gate-belt conveyors are employed. diags Mech Handling 28:257-8; 29:3-5 D '41-Ja '42

Dust allaying with wetting agents; abstract. C. W. Owings. Coal Age 46:89-91 N '41

How to attain greater shuttle-car safety; stresses control of dust at source. J. C. White. il Coal Age 47:58-9 My '42

Methods of allaying dust in underground mining operations. C. W. Owings. bibliog U S Bur Mines Rep of Invest 3631:1-38 '42

Rock-dusting will be in vain if coal dust is ill covered. Coal Age 46:63 N '41

Second report of the coal dust research committee, 1941; abstract. J Ind Hygiene 24:78-9 Ap '42

Self-promoted dust explosions; direct and indirect causes. S. C. Blacktin. bibliog Chem Age (Lond) 47:53-7 Jl 18 '42

Utilization of coal dust and slurry from mines. J. C. Coutant. Blast F & Steel Pl 30:1038+ S '42

Water-tank shortwall spraying. D. H. Davis. Coal Age 47:58-9 Jl '42

What one anthracite company is doing to solve the dust problem. A. C. Peterson. Coal Age 46:63 N '41

See also

Coal, Pulverized

Coal mines and mining—Rock dusting

COAL handling

Blending of coal; variable speed conveying system. I. A. Given. diags Mech Handling 29:92-3 My '42

Coal and ash handling plant. il diag Engineering 153:285-7, 290, 345-7 Ap 10, My 1 '42

Coal and coke handling at a modern gasworks. diags Mech Handling 29:130-2 Jl '42

Coal handling changes cut costs and increase capacity; Mississippi River improvement makes available coal from three additional districts; new storage and handling facilities. P. Woodnorth. il plan Power Pl Eng 46:60-2 Mr '42

Coal-handling systems for central stations; with cost data. G. C. Daniels. il diags Mech Eng 63:801-6 N '41; Discussion. 64:230-1 Mr '42

Cold weather ore and coal handling safeguarded by electric strip heaters. M. Greenler. diags Steel 110:82+ Mr 16 '42

Effective coal storage depends on know how. il diags plan Power 86:642-3 S '42

Fire hose sluices coal to emergency storage; Illinois iron & bolt co. il Power 86:816 N '42

High-speed coal handling cranes. il Mech Handling 29:176 S '42

Method of coal handling increases yard capacity. diags Elec W 117:1833 My 30 '42

New coal handling system for cement mill. il Rock Prod 45:36 F '42

900-ft conveyor handles three coal-moving jobs. W. G. Hudson. il diag plans Power 86:243-5 Ap '42

Safe ramps for coal-handling walkways. W. E. Rossnagel. diags Power 86:57-8+ Ja '42

Step-up stokers for war loads; coal handling. L. N. Rowley. diags Power 86:167-8 Mr '42

Storage problem. G. C. Daniels. il Power Pl Eng 46:58-61 Jl '42

Storing cost cut at Cannelton coal & coke co. by tractor-grader. il Coal Age 47:61 Mr '42

Truck trade served at Jefferson no. 20 mine by 4-compartment storage and loading plant. il Coal Age 47:57 My '42

Trucks pile 20,000 tons 20 feet deep; building emergency coal pile. il diags Power 86:778-80 N '42

Up-to-date coal handling plant. diags Mech Handling 29:184-5 O '42

See also

Coal delivery

COAL liquefaction

Chemistry of coal hydrogenation. H. H. Storch. Chem R 29:483-99 bibliog(p497-9) D '41

Conversion of coal by hydrogenation described as a future source of hydrocarbon products. bibliog il Nat Pet N 34 pt2:R208-9 Jl 29 '42

Develop synthetic motor fuels and lubes, save petroleum for planes, Congress urged; gasoline-from-coal hearing. diag Nat Pet N 34:17-18 Je 24 '42

Kinetics of hydrogen consumption, oxygen elimination and liquefaction in coal hydrogenation; nature of the catalytic reactions. H. H. Storch, C. O. Hawk and W. E. O'Neill. bibliog Am Chem Soc J 64:230-6 F '42

Oil from coal; abstract. E. W. Sawyer. Chem & Ind 61:256 Je 6 '42

COAL loading machines

Addition of duckbill essential at Rock Springs; abstract. G. B. Pryde. Coal Age 47:88 Mr '42

COAL loading machines—*Continued*

Big cars behind loaders plus underground transfer station increase machine output at Peerless mine. I. A. Given. il diags Coal Age 47:37-40 Mr '42

Completely mechanized new Ditney Hill slope mine serves loading machines with shuttle cars. I. A. Given. il diags Coal Age 47:52-6 Ja '42

Duckbill mechanical loading. P. R. Wickliffe. il Min Cong J 28:41-2 Je '42

Installation costs of service haulage tracks for mobile mechanical loading. il Min Cong J 27:41-2 N '41

Mechanical mining in the Elkhorn district. L. E. Kelley. diags plans Coal Age 47:44-6 Ja '42

Mechanized mining under difficult seam conditions; coal properties of Pardee & Curtin lumber company. C. W. Thompson. il plans Min Cong J 28:26-9 Ap '42

Modern loader mining with shuttle cars and conveyor; Kentucky truck mine. J. H. Edwards. il Coal Age 47:76-8 Ap '42

New practice in slate loading raises coal production; loaded at face with coal and separated by mechanical cleaning equipment at the preparation plant. C. R. Nailler. flow sheet il diag Min Cong J 28:12-16 Jl '42

Recovering barrier pillars with shaker conveyors and duckbills in Pittsburgh Terminal Coal's no. 8 mine. J. T. Federoff. il diags Coal Age 47:39-42 My '42

Sales of mechanical loading and cleaning equipment for use in coal mines in 1941. W. H. Young and others. il Min Cong J 28:22-5 F '42; Same. Coal Age 47:66-8 F '42

Service haulage tracks for mobile loading machines; with cost data. diags plans Min Cong J 28:47-9 S '42

Shuttle car operation with tractor loaders at Peabody coal co. A. F. Phillips. Min Cong J 28:44-5 Je '42

Shuttle cars achieve high output per shift at no. 25 mine; northern West Virginia property of Consolidation coal company. G. B. Southward. il diags plan Min Cong J 28:26-9 O '42

Speeding machine loading; abstracts. A. J. Breitenstein. Coal Age 47:56+ Je '42; Min Cong J 28:43-4 Je '42

Supervision for mobile loading machine operations. charts Min Cong J 28:75-7 F '42

Thick-coal pillars mined with mobile loaders and shakers; Kenilworth (Utah) mine of the Independent coal & coke co. I. A. Given. il diags Coal Age 47:51-6 Ag '42

Track mounted mechanical loading at Snow Hill. il diags Min Cong J 28:39-43 N '42

Training personnel in the problems of mechanical mining; Union Pacific coal company. R. R. Knill. il Min Cong J 27:34-6+ N '41

War maintenance; loading machines. il Coal Age 47:87-8 O '42

Repair

Transfer trucks can save face operating time and cut cost of shopping loading machines. E. Prudent. il Coal Age 47:79+ Ap '42

COAL measurement

Tons of coal in loose piles. W. F. Schaphorst. Am Gas J 156:17 Mr '42

COAL miners

Coal miners' part in war production pictured by WPB and Pittsburgh coal. Coal Age 47:40-1 Jl '42

Human relations and personnel building in the coal-mining industry. O. G. Van Campen. Coal Age 46:37-8 Ag; 43-4 S; 45-6 N; 52-4 D '41; 47:49, 52 Mr '42

Importance of the coal miner in the war effort. L. B. Hershey; D. M. Nelson; W. A. Nelson. Min Cong J 28:38 Ag '42

Man power shortage, a new experience in coal mining. G. B. Southward. Min Cong J 28:38 Jl '42

Occupational hazards to young workers; the coal-mining industry. U S Children's Bur Pub 275:1-55; pa 10c Supt. of doc. '42

Tackling the mine personnel problem in wartime. G. R. Spindler. il Min Cong J 28:21-4 My '42

Training personnel in the problems of mechanical mining; Union Pacific coal company. R. R. Knill. il Min Cong J 27:34-6+ N '41; Abstract. Coal Age 46:88 D '41

War maintenance; deep-mine organization and personnel both influence maintenance. Coal Age 47:67-8 O '42

War sends the coal miner to school; care and repair of the coal industry's mechanized equipment, improved mine safety, etc. D. C. Jones. il Min Cong J 28:23-8 Jl '42

See also

Coal strikes

Mining schools and education

Diseases and hygiene

Anthraco-silicosis among bituminous coal miners. R. H. Flinn, H. E. Seifert and H. P. Brinton. bibliog Ind Med 11:470-3 O '42

Health hazards from inadequate coal-mine ventilation. R. R. Sayers. bibliog U S Bur Mines Information Circ 7221:1-18 '42

Miners' welfare. Economist 142:872 Je 20 '42

Soft coal miners, health and working environment. R. H. Flinn and others. (Pub. health Bul. 270) 118p U.S. Public health service, Washington; pa 25c Supt. of doc. '41; Review. Pub Health Rep 56:2482-4 D 26 '41

Tuberculosis and pneumokoniosis among underground workers; abstract. I. I. Moshkovsky. J Ind Hygiene 24:sup122-3 Je '42

Great Britain

British coal labor troubles. J. E. Norton. il Coal Age 47:45-7 My; 73-5 Je '42

Closed shop in British mining. Economist 141:762 D 20 '41

Closed shop in coal mining. Economist 142:695 My 16 '42

Coal and the guaranteed wage. Economist 142:659 My 9 '42

Coal industry and miners' wages in Great Britain. Int Labour R 46:326-8 S '42

Miners' bonus. Economist 143:296 S 5 '42

Miners' wages. Economist 142:748, 765, 821, 902 My 30, Je 13, 27 '42

Miners' welfare. Economist 142:872 Je 20 '42

Old king coal. R. W. L. Ward. 176p 6s Methuen & co, London '41

One big union? Economist 143:104-5 Jl 25 '42

Recruits for coal mining. Economist 141:663 N 29 '41

This great journey. J. Lee. 298p $2.50 Farrar '42

Travesty of justice? punishment of miners for going on strike illegally. Economist 142:140 Ja 31 '42

Wages of idle miners. Economist 142:20 Ja 3 '42

Young miners. Economist 143:266 Ag 29 '42

Indiana

Six Indiana organizations unite to establish school for coal miners. V. Sappenfield. il Coal Age 47:55-6 My '42

Pennsylvania

History of legislation for the protection of coal miners in Pennsylvania, 1824-1915. A. Trachtenberg. 239p bibliog(p226-7) $2.75 International publishers, New York '42

Unused manpower in Pennsylvania anthracite area. Monthly Labor R 54:1101-6 My '42

United States

Arbitration board orders union shop in captive coal mines; Fairless dissents. Comm & Fin Chr 154:1683 D 27 '41

Coal's manpower problem increases; steady work urged on miners. Coal Age 47:49-50 Ag '42

Dissenting opinion in captive coal mine dispute. B. F. Fairless. Manuf Rec 110:25+ D '41

Labor situation as reported by the Coal division. Min Cong J 28:39-45, 56 Ag '42

Lewis's victory; three arbiters vote 2 to 1 for union shop in captive coal mines. Business Week p28+ D 13 '41

COAL miners—United States—*Continued*

United mine workers sever CIO connections; move to admit women workers to union. Comm & Fin Chr 156:1444 O 22 '42

See also

Coal strikes

Wales

Grass on the slag heaps; the story of the Welsh miners. E. Ginzberg. 228p bibliog(p224-5) $2.50 Harper '42

COAL mines and mining

Absenteeism, other war-production problems debated by Appalachian section, A.I.M.E. Coal Age 47:101-3+ Ag '42

American institute of mining and metallurgical engineers, Coal division, annual meeting, New York, Feb. 9-11. Coal Age 47:86-94 Mr '42

American mining congress, Coal division 19th annual meeting, Cincinnati, April 27-28. Min Cong J 28:38-9+ My; 36-53 Je '42; Coal Age 47:51-8+ Je '42

Coal mining institute of America annual meeting, Pittsburgh, Dec. 11-12. Coal Age 47:76+ Ja '42

Illinois mining institute 49th annual meeting, Springfield, Oct. 31. Coal Age 46:110-11+ D '41

Illinois mining institute 24th summer meeting and boat trip, June 5-7. Coal Age 47:94, 97 Jl '42

Indiana coal mining institute 11th annual meeting, Terre Haute, Dec. 6. Coal Age 47:80, 82+ Ja '42

Indiana coal mining institute spring meeting, Evansville, May 16. Coal Age 47:87-8+ Je '42

Many coal companies now interested in scholarships. G. H. Deike. Min & Met 23:101-3 F '42

Mineral composition and structure of mine roof rocks. P. H. Price and A. J. W. Headley. bibliog il Min Cong J 28:54-6 Ap '42

Mining institute of the fifteenth bituminous district, Barnesboro, Pa. 29th annual meeting, Dec. 6. Coal Age 47:88-9 Ja '42

Research and progress in the production and use of coal. A. C. Fieldner and W. E. Rice. 49p U.S. Nat. resources planning board, Washington; pa 15c Supt. of doc. '41

Rocky Mountain coal mining institute 40th annual meeting, Salt Lake City, June 10-12. Coal Age 47:44+ Jl '42

Ventilation surveying. Min Cong J 28:40-2 Ja '42

West Virginia mining institute 34th annual meeting, Morgantown, Nov. 7. Coal Age 46:114-17 D '41

See also

Coal dredging
Coal handling
Coal miners
Coal mining machinery

Accidents and explosions

All-time record made in coal-mine safety, 1941. R. R. Sayers. Coal Age 47:81-2 F '42

Big coal-mining hazards; falls of roof and coal. Coal Age 46:74+ D '41

Big coal-mining hazards; gas and dust explosions. Coal Age 46:78 D '41

Coal-mine accidents in the United States, 1939. W. W. Adams, L. E. Geyer and M. G. Parry. U S Bur Mines Bul 444:1-123; pa 20c Supt. of doc. '42

Coal-mine accidents in the United States, 1940. W. W. Adams, L. E. Geyer and M. G. Parry. U S Bur Mines Bul 448:1-134; pa 20c Supt. of doc. '42

Coal mine bumps; sudden bursts or failures in pillars, roofs or floors. C. T. Holland. bibliog diags Min Cong J 28:26-30 Je; 34-7 Jl '42

Coal-mine explosions and coal- and metal-mine fires in the United States during the fiscal year ended June 30, 1941. H. Harrington and W. J. Fene. U S Bur Mines Information Circ 7208:1-26 '42

Detailed study of 60-day nonfatal underground accidents in Pennsylvania bituminous coal mines during 1939. L. C. Ilsley. U S Bur Mines Information Circ 7176:1-36 '41

How the injector and atomizer principle modifies gas and dust explosions. diag Coal Age 47:65 S '42

Mine explosions not so deadly in 1941. J. T. Ryan, jr. Min & Met 23:105 F '42

Preventing fatal explosions in coal mines; a study of recent major disasters in the United States as accompaniments of technological change. E. A. Wieck. 156p bibliog(p146-51) pa 75c Russell Sage foundation, New York '42

Reasons for roof falls; abstract. H. P. Greenwald. Coal Age 46:102-4 D '41

Status of safety in mining. D. Harrington. U S Bur Mines Information Circ 7181:1-32 '41

Stretcher-splint developed to facilitate first aid. W. W. Dartnell. il diag Coal Age 47:65-6 Ja '42

What can be done to make explosions cause fewer and less severe accidents. Coal Age 47:69 Ag '42

See also

Coal mines and mining—Fires and fire protection
Coal mines and mining—Safety measures

Blasting

When to drill, charge and fire shotholes, should the charge limit be increased? symposium. Coal Age 47:91-2 Ap '42

Costs

Bituminous mine realizations and cost released by Coal division. Coal Age 47:74-5 Mr '42

Installation costs of service haulage tracks for mobile mechanical loading. il Min Cong J 27:41-2 N '41

Service haulage tracks for mobile loading machines; with cost data. diags plans Min Cong J 28:47-9 S '42

Electric equipment

All-out fan drive tops ventilation work at Pursglove No. 15. il plan Coal Age 47:56-8 Ag '42

Better mine power; abstract. D. E. Renshaw. diag Coal Age 47:88+ Jl '42

Conflicting regulations; construction of overhead lines on colliery premises; abstract. J. McOwat. Elec R (Lond) 130:434-5 Ap 3 '42

Direct current wiring systems for conveyor mining. W. F. Roberts. il diags Min Cong J 28:56-9 Je; 39-41 Jl '42

Electrical power, 1941. il Coal Age 47:74-6 F '42

Helpful hints for repairing trailing cables. J. H. Blair. diags Coal Age 47:73 Ag '42

How Illinois mines put modern electrical equipment at work, improve bad power factor and lower costs. F. W. Richart. il Coal Age 47:47-8 Mr '42

How lightning and surges can be rendered innocuous by two sets of arresters working in tune. F. W. Richart. il diag Coal Age 47:51, 54-5 My '42

Inspection and testing of mine-type electrical equipment for permissibility. L. C. Ilsley, E. J. Gleim and H. B. Brunot. U S Bur Mines Information Circ 7185:1-21, pl 1-6 '41

List of permissible mine equipment approved to January 1, 1942. L. C. Ilsley. U S Bur Mines Information Circ 7207:1-35 '42

Lower costs; why management studies how to improve power factor. F. W. Richart. Coal Age 46:54-5, 58 D '41

Mine locomotives for gathering and main haulage adapt themselves to mining needs of today. G. H. Shapter. il Coal Age 47:42-4 My '42

Operating a two-loading point regenerative incline. M. M. Haley. il plan Min Cong J 28:11-13 My '42

Power distribution and protective devices. R. L. Alpine. Min Cong J 28:51 Je '42

Precautions necessary in the use of electric cables underground. G. F. Newman. Coal Age 47:62-3 Jl '42

Provisions that will assure increased safety in operation of mines by electric power. F. W. Richart. Coal Age 47:52-3 Jl '42

COAL mines and mining—Electric equipment—*Continued*

Rationalization of colliery electrical equipment. J. A. B. Horsley. Inst E E J 89 pt 2:121-4 Ap '42; Abstracts. Elec R (Lond) 129:673-4 D 12 '41; Electrician 127:349-50 D 19 '41; Discussion. Inst E E J 89 pt 2: 124-8, 485-91 Ap, O '42; Elec R (Lond) 129: 705-6 D 19 '41

Suspending five feeders in a 1,000-ft. borehole near Portage, Pa. E. P. Jaggard. il Coal Age 47:60-1 Jl '42

War maintenance; electrical conductors, substations, locomotives, storage batteries, motors, controllers and breakers. il Coal Age 47:78-82, 91-3, 96-8, 105-10 O '42

War maintenance; electrical equipment, strip mines. il Coal Age 47:120-3 O '42

See also

Coal mines and mining—Power

Equipment

Big cars behind loaders plus underground transfer station increase machine output at Peerless mine. I. A. Given. il diags Coal Age 47:37-40 Mr '42

Bituminous mines improve equipment and methods. il Coal Age 47:60-5 F '42

Boom maintenance stepped up at Ayrshire Patoka by using pipe in rebuilding job. M. A. Walsh. il Coal Age 46:61 N '41

Can it be used? Pittsburgh Coal salvage work. R. W. Mackensen. il Coal Age 47: 56-9 S '42

Can rebuilding make old locomotives efficient? with cost data. E. Prudent. il Coal Age 47:57 Mr '42

Control over materials tightened; mining companies on old basis. Coal Age 47:39-40 Jl '42

Conveyor crews average nearly 16 tons per man; Clinton block coal co. W. B. Bannister. il diags Coal Age 46:57-60 N '41

Dust collection at pit head. diags Mech Handling 29:106-7 Je '42

Efficiency raised 80% by experience plus main-line belt; Hart mine in western Kentucky. il plan Coal Age 47:45-6 Jl '42

5x⅜-in. washed coal at Consolidation no. 32 plant; mechanical cleaning, screening and blending plant. I. A. Given. flow sheet il diags plan Coal Age 46:45-51 D '41

Keeping coal in step with victory program: industry must inventory its equipment and supply needs ahead. W. A. Nelson. Coal Age 47:62-3 Ap '42

Locomotive radios solve communication problem at Frances mine. il Coal Age 47:89-90 Ap '42

Maintenance and inspection of mine haulage roads. il Min Cong J 28:33-5 My '42

Maintenance, 1941. il Coal Age 47:78-80 F '42

Maintenance savings offered by welding methods. il Coal Age 47:68+ Jl '42

Material conservation at the mines; reports from scattered mining properties. il Min Cong J 28:30-5 O '42

Mechanical cleaning, 1941. Coal Age 47:71-3 F '42

Mechanical operating methods in northern West Virginia. E. D. Gall. il plans Min Cong J 28:26-9 Ag '42

Men and methods join to keep Castle Gate no. 2 equipment on the job. I. A. Given. il Coal Age 47:52-6 S '42

Mine supplies, 1941. Coal Age 47:77-8 F '42

Modern coal preparation plant. diag Mech Handling 29:145-7 Ag '42

Modern loader mining with shuttle cars and conveyor; Kentucky truck mine. J. H. Edwards. il Coal Age 47:76-8 Ap '42

Modern methods mark Esco 10 mining and preparation. J. H. Edwards. flowsheet il Coal Age 47:43-8 S '42

Modernization program at Kansas strip mine includes use of jig method to wash large sizes. C. Lambur, jr. flow diag il Coal Age 47:43-6 Mr '42

Mogentor monitors lower coal down mountain at Poinsettia conveyor-equipped mine. J. H. Edwards. il diags Coal Age 47:66-8 Je '42

New airshaft at Old Ben no. 8 mine embodies modern ideas in construction. il diags Coal Age 47:71-2 Je '42

New central shop at Pursglove. il Coal Age 47:54-5 Jl '42

New shovel and trucks; Fidelity no. 11 strip mine. il Coal Age 47:82-4 Ap '42

New underground shop of Consolidation mine no. 93. il plan Coal Age 47:85-8 Ap '42

Operating costs cut at new Pine Ridge car-repair shop. R. D. Hall. il diags plan Coal Age 47:47-9 Ja '42

Preheating for expansion aids in welding; cast-iron mine-hoist drum. diag Coal Age 47:94 F '42

Reopening and modernizing an abandoned mine; Jamison coal & coke company. W. B. Jamison. il Min Cong J 28:32-3, 36-8 N '42

Results up, cost down; preparation plant of the Weirton coal co. J. H. Edwards. flow sheet il Coal Age 47:62-5 Ag '42

Safety and efficiency characterize Old Ben no. 8 mine. I. A. Given. il diags plans Coal Age 47:66-70 Ap '42

Sales of mechanical loading and cleaning equipment for use in coal mines in 1941. W. H. Young and others. il Min Cong J 28:22-5 F '42

Shuttle cars achieve high output per shift at no. 25 mine; northern West Virginia property of Consolidation coal company. G. B. Southward. il diags plan Min Cong J 28:26-9 O '42

Some comparisons of track welding methods; Koppers coal division of Eastern gas & fuel associates; thermit and electric welding. il diags Min Cong J 28:8-10+ My '42

Storing cost cut at Cannelton coal & coke co. by tractor-grader. il Coal Age 47:61 Mr '42

Three-hopper sand dryer built over drillhole to mine. S. B. Sage. il diag Coal Age 47: 93 F '42

Transfer trucks can save face operating time and cut cost of shopping loading machines. E. Prudent. il Coal Age 47:79+ Ap '42

War maintenance. il diags Coal Age 47:65-135 O '42

Washers for 7x0, plus heat and mechanical drying, top mine-run blending at new Hanna plant. J. H. Edwards. flow sheet il Coal Age 47:47-52 Jl '42

Welding a must for continuity of operations and low maintenance at mechanical mines. E. Prudent. il Coal Age 47:63-5 Je '42

What's new in coal-mining equipment. Published in monthly numbers of Coal age

See also

Coal cutters
Coal handling
Coal loading machines
Coal mines and mining—Conveyors
Coal mining machinery
Mine cars

Explosives

Distributing and handling explosives underground. B. L. Lubelsky. Min Cong J 28: 47-8 Je '42

Theoretical calculations for explosives; explosion temperatures and gaseous products and the effects of changes in carbonaceous material. F. W. Brown. bibliog U S Bur Mines Tech Pa 632:1-21; pa 5c Supt. of doc. '41

Variations in oxygen condition between individual cartridges and between cases of permissible explosives. A. P. Rowles and A. R. T. Denues. U S Bur Mines Rep of Invest 3621:1-29 '42

Fires and fire protection

Advocate continual use of water spray to quench fires in mine dumps. Coal Age 47: 92 Ap '42

By close sealing, electric fire is held within confines of a single roadway. R. H. Nicholas. diags Coal Age 47:68-9 Ag '42

Chemist can tell what is happening to a sealed fire; abstract. G. S. Scott. Coal Age 46:104+ D '41

Dry ice utilized to complete fire extinguishment. Coal Age 47:51 S '42

COAL mines and mining—Fires and fire protection—*Continued*

Hazards due to electric shock transmitted across discharge spray of compressed carbon dioxide. R. L. Grant. bibliog pls diag U S Bur Mines Rep of Invest 3656:1-7 '42

How fire at Continental mine was slushed out. S. H. Ash, E. W. Felegy and W. C. Jones. Coal Age 47:71 My '42

Rock-dust fighting overcomes Elkhorn-seam mine fire after men are stricken by recirculation. W. Hornsby. il plans Coal Age 47:48-50 My '42

Management

Absenteeism and the mine foreman. J. J. Rutledge. Explosives Eng 20:304-5 O '42

Human relations and personnel building in the coal-mining industry. O. G. Van Campen. Coal Age 46:37-8 Ag; 43-4 S; 45-6 N; 52-4 D '41; 47:49, 52 Mr '42

Initiative. J. J. Rutledge. Explosives Eng 19:342-3 N '41

Keeping coal in step with victory program; industry must inventory its equipment and supply needs ahead. W. A. Nelson. Coal Age 47:62-3 Ap '42

Lick-and-a-promise mine foreman. J. J. Rutledge. Explosives Eng 20:143-4 My '42

Measures taken in Britain to combat absenteeism, listless work and to reestablish the force at the mines. J. E. Norton. il Coal Age 47:73-5 Je '42

Mine foreman who is down on his luck. J. J. Rutledge. Explosives Eng 20:176-8 Je '42

Mine transportation, maintenance, and ventilation, 1941. J. W. Buch. il Min & Met 23:99-100 F '42

Multiple-shift mechanical mining in some bituminous-coal mines; progress report 3. A. L. Toenges and E. R. Maize. diags plans U S Bur Mines Information Circ 7178:1-43 '41

New mine foreman. J. J. Rutledge. Explosives Eng 20:25-6 Ja '42

Supervision for mobile loading machine operations. charts Min Cong J 28:75-7 F '42

Tackling the mine personnel problem in wartime. G. R. Spindler. il Min Cong J 28:21-4 My '42

War maintenance; deep-mine organization and personnel both influence maintenance. Coal Age 47:67-8 O '42

Methods

Addition of duckbill essential at Rock Springs; abstract. G. B. Pryde. Coal Age 47:88 Mr '42

Big cars behind loaders plus underground transfer station increase machine output at Peerless mine. I. A. Given. il diags Coal Age 47:37-40 Mr '42

Bituminous mines improve equipment and methods. il Coal Age 47:60-5 F '42

Coal mine bumps. C. T. Holland. diags Min Cong J 28:34-7 Jl '42

Completely mechanized new Ditney Hill slope mine serves loading machines with shuttle cars. I. A. Given. il diags Coal Age 47:52-6 Ja '42

Conveyor crews average nearly 16 tons per man; Clinton block coal co. W. B. Bannister. il diags Coal Age 46:57-60 N '41

Conveyors save man power. P. R. Wickliffe and W. A. Wickliffe. Coal Age 47:55-6 Je '42

Cutting, drilling and shooting. F. E. Snarr. Min Cong J 28:40-1 Je '42

Drift mining from strip pits. J. M. McCoy. Min Cong J 28:51-2 Je '42

Exeter colliery mines flat beds by conveyors. R. D. Hall. il plan Coal Age 47:71-3 Ap '42

Mechanical mining in the Elkhorn district. L. E. Kelley. diags plans Coal Age 47:44-6 Ja '42

Mechanical operating methods in northern West Virginia. E. D. Gall. il plans Min Cong J 28:26-9 Ag '42

Mechanized mining under difficult seam conditions; coal properties of Pardee & Curtin lumber company. C. W. Thompson. il plans Min Cong J 28:26-9 Ap '42

Multiple-shift mechanical mining in some bituminous-coal mines; progress report 3. A. L. Toenges and E. R. Maize. diags plans U S Bur Mines Information Circ 7178:1-43 '41

New operation replaces depleted mine; Gulf smokeless coal company. W. P. Tams, jr. il plans Min Cong J 28:32-5 S '42

New practice in slate loading raises coal production; loaded at face with coal and separated by mechanical cleaning equipment at the preparation plant. C. R. Nailler. flow sheet il diag Min Cong J 28:12-16 Jl '42

Recovering barrier pillars with shaker conveyors and duckbills in Pittsburgh Terminal Coal's no. 8 mine. J. T. Federoff. il diags Coal Age 47:39-42 My '42

Roof breaks in pillar mining. A. E. Long. diags Min Cong J 28:34-6 Mr '42

Safety and efficiency characterize Old Ben no. 8 mine. I. A. Given. il diags plans Coal Age 47:66-70 Ap '42

Shaker conveyor mining at the Century coal company. J. L. Orr. il diag plans Min Cong J 27:26-9+ D '41

Shuttle cars achieve high output per shift at no. 25 mine; northern West Virginia property of Consolidation coal company. G. B. Southward. il diags plan Min Cong J 28:26-9 O '42

Soft coal miners health and working environment. R. H. Flinn and others. (Pub. health bul. 270) 118p bibliog(p115-18) U.S. Public health service, Washington; pa 25c Supt. of doc. '41

Speeding machine loading. A. J. Breitenstein. Coal Age 47:56+ Je '42

Thick-coal pillars mined with mobile loaders and shakers; Kenilworth (Utah) mine of the Independent coal & coke co. I. A. Given. il diags Coal Age 47:51-6 Ag '42

Track mounted mechanical loading at Snow Hill. il diags Min Cong J 28:39-43 N '42

Two rounds in 3 shifts; abstract. J. E. Willson. Coal Age 47:76+ Jl '42

Water-tank shortwall spraying. D. H. Davis. Coal Age 47:58-9 Jl '42

Why not tandem scrapers to raise efficiency in semi-longwall work? R. Carson. diags Coal Age 47:62-3 S '42

See also

Coal mines and mining—Stripping operations

Coal mines and mining—Subaqueous operations

Power

Analysis of power consumption at coal mines. F. A. Jones and others. pls U S Bur Mines Rep of Invest 3615:1-20 '42

Getting more air with a lower power consumption. J. H. Dickerson. Coal Age 47:48-50 S '42

High voltage power distribution underground. A. L. Lee. il diags Min Cong J 28:30-2+ Ap '42

How, while still using standard equipment, to lift 220-volt secondaries to 254. F. W. Richart. diag Coal Age 47:61 Ja '42

Modern steam generator takes bigger load from tubular boilers; Centralia coal co. F. W. Richart. il diags Coal Age 47:59-61 Ag '42

Origin and meaning of power factor. F. W. Richart. Coal Age 46:48-50 N; 54-5, 58 D '41; 47:47-8 Mr '42

Preformed d.c. power; resistance in generator field for picking up heavy cross-the-line loads. J. M. Rairigh. il diag Coal Age 47:41-3 Ja '42

Though electrical current losses are small its voltage losses are heavy. Coal Age 47:63 Mr '42

Records

War maintenance; records and reports. il Coal Age 47:68-70 O '42

Rock dusting

British Safety in mines research board reports findings for the year 1940. il Coal Age 47:109-10+ Ap '42

COAL mines and mining—Rock dusting—*Cont.*
Fine grinding and stone-dusting. il diags Mech Handling 29:35-8 F '42
Rock-dust fighting overcomes Elkhorn-seam mine fire after men are stricken by recirculation. W. Hornsby. il plans Coal Age 47:48-50 My '42
Rock-dusting will be in vain if coal dust is ill covered. Coal Age 46:63 N '41

Safety measures

Allaying coal dust at Island Creek coal company mines. J. A. Saxe. plan Min Cong J 28:15-17+ Ja '42
Automatic haulage safety appliances. T. Forsyth. diags Mech Handling 29:16-17 Ja '42; Discussion. J. R. Robertson. 29:80-1 Ap '42
British Safety in mines research board reports findings for the year 1940. il Coal Age 47:109-10+ Ap '42
Coal dust allaying in cutting, loading and transportation. J. C. Johnston. il Min Cong J 28:49 Je '42
Coal dust underground where gate-belt conveyors are employed. diags Mech Handling 28:257-8; 29:3-5 D '41-Ja '42
Eddie & Joe mine receives trophy. il Explosives Eng 20:263 S '42
Electrical safeguards and practices in mechanical mining; abstract. J. F. Conrad. Coal Age 46:62 N '41
Examination for coal-mine officials state of Colorado. Coal Age 46:89-90 D '41
Federal inspection and explosives control acts; abstract. E. H. Denny and G. O. Arnold. Coal Age 47:44+ Jl '42
Full-mechanical mine captures safety award of Big Sandy-Elkhorn institute. il Coal Age 47:112-13 Ap '42
Haulage on grade made safer by battery headlights. diag Coal Age 47:83-4 Je '42
Health hazards from inadequate coal-mine ventilation. R. R. Sayers. bibliog U S Bur Mines Information Circ 7221:1-18 '42
How federal coal mine inspection is working. Min & Met 23:387 Jl '42
How to attain greater shuttle-car safety; stresses control of dust at source. J. C. White. il Coal Age 47:58-9 My '42
Implementing safety in war debated by inspectors; Mine inspectors' institute of America meeting, Lexington, Ky. May 25-27. Coal Age 47:41, 99-102+ Jl '42
List of permissible mine equipment approved to January 1, 1942. L. C. Ilsley. U S Bur Mines Information Circ 7207:1-35 '42
Mine air treated; problem of roof falls attacked through installation of conditioning plants. Business Week p57-8 Jl 25 '42
Mine gases; abstract. C. M. Donohue. Coal Age 46:118-20 D '41
Mine safety should be taught as a skill of which workmen will become proud. Coal Age 47:64 S '42
National safety congress, Mining section meeting, Chicago, Oct. 6-10. Coal Age 46:89-94 N '41
Precautions necessary in the use of electric cables underground. G. F. Newman. Coal Age 47:62-3 Jl '42
Prevention of roof falls in coal mine entries; study to be made. G. B. Southward. Min Cong J 27:40 N '41
Provisions that will assure increased safety in operation of mines by electric power. F. W. Richart. Coal Age 47:52-3 Jl '42
Questions asked by state boards. Published in monthly numbers of Coal age
Research on safety in mines. Engineering 153:392 My 15 '42
Rotary dump is interlocked by light beam control. il Coal Age 47:67 Jl '42
Safety committee organized by the Coal division of the American mining congress. Min Cong J 28:60 Je '42
Safety in coal mining, 1941. C. Evans, jr. Min Cong J 28:26-7 F '42
Safety means more tonnage; abstracts of papers; American mining congress, Coal division. Coal Age 47:58+ Je '42
Safety problems in connection with operation of rubber-tired shuttle cars; abstract. G. A. Shoemaker. Coal Age 47:60-1 Ja '42
Self-supporting stairway built in Buckhorn escape shaft. il Coal Age 47:86 Je '42
Sentinels of safety trophy presentations; awards to leaders in bituminous and open-pit groups for 1940. il Explosives Eng 19:323-7 N '41
Signposts to safety set up by Board decisions. Coal Age 46:69-70, 72 D '41; 47:58-9 Ja '42
Special safety section. map Coal Age 46:63-7+ D '41
Tentative coal-mine inspection standards. U S Bur Mines Information Circ 7204:1-48 '42
Training personnel in the problems of mechanical mining; Union Pacific coal company. R. R. Knill. il Min Cong J 27:34-6+ N '41; Abstract. Coal Age 46:88 D '41
What can be done to provide civilian defense at and around the coal mines. il Coal Age 47:83-5 F '42
What one anthracite company is doing to solve the dust problem. A. C. Peterson. Coal Age 46:63 N '41
When roof strain makes it necessary to drive roads in rock; how Coleman did it. J. J. McIntyre. Coal Age 46:87-8 D '41
When to drill, charge and fire shotholes, should the charge limit be increased? symposium. Coal Age 47:91-2 Ap '42

See also

Coal mines and mining—Rock dusting	Safety lamps, Electric
Methane detectors	

Sealing

Sealing worked-out areas. W. E. Buss. Min Cong J 28:48-9 Je '42

Stores systems

War maintenance; maintenance supplies. il Coal Age 47:73-4 O '42

Stripping operations

Bituminous strippers install much new equipment. il Coal Age 47:69-70 F '42
Coal pinning machine. C. M. Guthrie. il Min Cong J 28:37 O '42
Modernization at Pittsburg & Midway coal mining co. C. Lambur, jr. il diags Coal Age 46:52-3, 56 N '41; 47:43-6 Mr '42
New shovel and trucks; Fidelity no. 11 strip mine. il Coal Age 47:82-4 Ap '42
New shovel operation and dragline at Maumee mines in Indiana. il Coal Age 47:40-2 Mr '42
Primary and tandem dragline operation. L. Stewart. il Min Cong J 28:50 Je '42
Spoil reclamation includes setting 7,000,000 trees in Illinois; strip-land reclamation. il map Coal Age 47:66-7 Ag '42
Strip mine haulage in eastern Ohio. A. H. Henry. Min Cong J 28:52-3 Je '42
Stripping enters new paths; abstracts of papers, Coal division, American mining congress. Coal Age 47:106+ Je '42
36 inches of coal mined with ¾- to 2-cu. yd. shovels at Elba. I. A. Given. il diag Coal Age 47:58-60 Mr '42
War maintenance; strip organization. il diags Coal Age 47:116-30 O '42

Study and teaching

See Mining schools and education

Subaqueous operations

Mining coal in the Ohio river; cleaning plant floats along side of dredge. E. Drennen. il diag map Min Cong J 28:38-41 S '42

Waste disposal

Cleaning of ponds and disposal of slurry solved by slackline cableway excavator. il diag Coal Age 46:70+ N '41; Abstract. Mech Handling 29:28-9 F '42
Flexible design features Summerlee refuse-disposal tram. J. E. Howard. il diags Coal Age 46:59-62 D '41; Excerpts. Mech Handling 29:71-2 Ap '42
Gob disposal mechanized at Kathleen mine. il Coal Age 47:84+ Je '42

COAL mines and mining—*Continued*

Alberta

Canadian institute of mining and metallurgy Western meeting, Edmonton, Oct. 1-3. Coal Age 46:95-7 N '41

Brazil

Coal in Brazil. T. Fraser. il Min Cong J 28:43-5 O '42

Canada

Canadian coal mines; operating costs and revenues, 1941. F. G. Neate. Can Min J 63: 665 O '42

Great Britain

British coal labor troubles. J. E. Norton. il Coal Age 47:45-7 My; 73-5 Je '42

British coal row. Business Week p42 Je 13 '42

Coal rights taken; nationalization of royalties. Business Week p36+ Ag 1 '42

Men, mines, and memories. R. A. S. Redmayne. 325p 20s Eyre & Spottiswoode, London '42

See also

Coal trade—Great Britain

Kansas

Modernization at Pittsburg & Midway coal mining co. C. Lambur, jr. il diags Coal Age 46:52-3, 56 N '41; 47:43-6 Mr '42

Kentucky

Kentucky mining institute annual meeting, Lexington, Dec. 5-6. Coal Age 47:95-6 Ja '42

New Mexico

Christmas comes to Madrid; colorful celebration by coal mining camp. C. Holbrook. il diag Comp Air M 46:6603-6 D '41

Ohio

Washers for 7x0, plus heat and mechanical drying, top mine-run blending at new Hanna plant. J. H. Edwards. flow sheet il Coal Age 47:47-52 Jl '42

Pennsylvania

Detailed study of 60-day nonfatal underground accidents in Pennsylvania bituminous coal mines during 1939. L. C. Ilsley. U S Bur Mines Information Circ 7176:1-36 '41

Effect of changes in moisture and temperature on mine roof; first report on strata overlying the Pittsburgh coal bed. I. Hartmann and H. P. Greenwald. bibliog pls U S Bur Mines Rep of Invest 3588:1-38 '41

Federal anthracite coal commission outlines ways to rehabilitate condition of anthracite region. Coal Age 47:50 Je '42

Planning for the anthracite area; from report of Federal anthracite commission. map Min & Met 23:338 Je '42

Reopening and modernizing an abandoned mine; Jamison coal & coke company. W. B. Jamison. il Min Cong J 28:32-3, 36-8 N '42

Unused manpower in Pennsylvania anthracite area. Monthly Labor R 54:1101-6 My '42

Texas

Texas lignite mine develops method of briquetting. il Coal Age 46:51 N '41

United States

Bituminous coal, 1941. Min Cong J 28:18-20 F '42

Coal industry, 1941. J. E. Tobey and others. il Min & Met 23:98-105 F '42

First century and a quarter of American coal industry. H. N. Eavenson. 701p bibliog(p621-64) $8 priv ptd Howard N. Eavenson, Koppers bldg, Pittsburgh '42

Girding for the war effort; what coal-mine presidents see as the big problems. Coal Age 47:50-5 F '42

War and defense reanimate anthracite region. il Coal Age 47:56-60 F '42

See also

Coal miners—United States
Coal trade—United States

also American institute of mining and metallurgical engineers—Coal division

West Virginia

Analyses of West Virginia coals. U S Bur Mines Tech Pa 626:1-341 '42

Mechanized mining under difficult seam conditions; coal properties of Pardee & Curtin lumber company. C. W. Thompson. il plans Min Cong J 28:26-9 Ap '42

Wyoming

Coal in Wyoming; abstract. J. M. Sampson. Coal Age 47:76 Jl '42

COAL mining institute of America

Annual meeting, Pittsburgh, Dec. 11-12. Coal Age 47:76+ Ja '42

COAL mining machinery

Coal pinning machine. C. M. Guthrie. il Min Cong J 28:37 O '42

List of permissible mine equipment approved to January 1, 1942. L. C. Ilsley. U S Bur Mines Information Circ 7207:1-35 '42

Mine machinery repair and maintenance rated higher in amended order. Coal Age 47:101-2+ Ap '42

Multiple-shift mechanical mining in some bituminous-coal mines; progress report 3. A. L. Toenges and E. R. Maize. diags plans U S Bur Mines Information Circ 7178:1-43 '41

Why not tandem scrapers to raise efficiency in semi-longwall work? R. Carson. diags Coal Age 47:62-3 S '42

See also

Coal cutters
Coal loading machines

Conveyors

Belt conveyors for underground gathering haulage. diags Min Cong J 28:44-7 N '42

Conveyor success depends upon how management does its job. T. Quinn. Coal Age 47:57 Ja '42

Conveyors save man power. P. R. Wickliffe and W. A. Wickliffe. Coal Age 47:55-6 Je '42

Direct current wiring systems for conveyor mining. W. F. Roberts. il diags Min Cong J 28:56-9 Je; 39-41 Jl '42

Exeter colliery mines flat beds by conveyors. R. D. Hall. il plan Coal Age 47:71-3 Ap '42

Gathering belts and multiple conveyor units. E. H. Jenks. Min Cong J 28:42 Je '42

Mechanical mining in the Elkhorn district. L. E. Kelley. diags plans Coal Age 47:44-6 Ja '42

Mechanized mining under difficult seam conditions; coal properties of Pardee & Curtin lumber company. C. W. Thompson. il plans Min Cong J 28:26-9 Ap '42

Modern loader mining with shuttle cars and conveyor; Kentucky truck mine. J. H. Edwards. il Coal Age 47:76-8 Ap '42

Mogentor monitors lower coal down mountain at Poinsettia conveyor-equipped mine. J. H. Edwards. il diags Coal Age 47:66-8 Je '42

Recovering barrier pillars with shaker conveyors and duckbills in Pittsburgh Terminal Coal's no. 8 mine. J. T. Federoff. il diags Coal Age 47:39-42 My '42

Shaker conveyor mining at the Century coal company. J. L. Orr. il diag plans Min Cong J 27:26-9+ D '41

Slot welding avoided warp when building conveyor. diag Coal Age 47:70 S '42

Study on belt conveyors for underground gathering. C. Robinson. il diags Min Cong J 28:49-52 Ja '42

Thick-coal pillars mined with mobile loaders and shakers; Kenilworth (Utah) mine of the Independent coal & coke co. I. A. Given. il diags Coal Age 47:51-6 Ag '42

Underground conveyors; patent. diag Mech Handling 29:15 Ja '42

COAL mining machinery—Conveyors—*Cont.*

War maintenance; conveyor equipment. il Coal Age 47:89-91 O '42

Lubrication

War maintenance; lubrication methods. il Coal Age 47:75-7 O '42

Maintenance and repair

Maintenance in war time. C. V. Beck; E. R. Rankin. il Min Cong J 28:42-6 S '42

Men and methods join to keep Castle Gate no. 2 equipment on the job. I. A. Given. il Coal Age 47:52-6 S '42

War maintenance; mining machines; cutters, drills, loading machines, conveyors. il Coal Age 47:83-91 O '42

War sends the coal miner to school; care and repair of the coal industry's mechanized equipment, improved mine safety, etc. D. C. Jones. il Min Cong J 28:23-8 Jl '42

Wartime care of mine equipment; repaired by electric and acetylene welding and metallizing. E. Schweitzer. il Min Cong J 28:20-2 Jl '42

Welding a must for continuity of operations and low maintenance at mechanical mines. E. Prudent. il Coal Age 47:63-5 Je '42

Welding and metallizing mine equipment. E. Schweitzer. Coal Age 47:52+ Je '42

Statistics

Sales of mechanical loading and cleaning equipment for use in coal mines in 1941. W. H. Young and others. il Min Cong J 28:22-5 F '42; Same. Coal Age 47:66-8 F '42

COAL-oil mixtures. See Fuel, Colloidal

COAL oiling

Absorption of liquids by coal; application of radiographic methods to the problem. G. W. Land. bibliog il Ind & Eng Chem 34:1078-82 S '42

COAL operators casualty of Pittsburgh

Pittsburgh insurer settles claims. Nat Underw 46:19 Ja 22 '42

COAL preparation

Clean coal to win the war; abstracts of papers, Coal division, American mining congress. Coal Age 47:102+ Je '42

Experimental plant at University of Iowa produces excellent stoker fuel from Iowa screenings. H. L. Olin and others. il Coal Age 47:69-71 Je '42

Field welding cuts weight, cost and vibration in preparation plants; with cost data. C. S. Roach. diags Coal Age 47:53-6 Mr '42

5x⅜-in. washed coal at Consolidation no. 32 plant; mechanical cleaning, screening and blending plant. I. A. Given. flow sheet il diags plan Coal Age 46:45-51 D '41; Excerpt. Mech Handling 29:92-3 My '42

Mechanical cleaning, 1941. Coal Age 47:71-3 F '42

Mercury vapour lighting horizontal lamps on colliery picking belts; abstract. C. S. Chubb. Engineering 153:312 Ap 17 '42

Mining coal in the Ohio river; cleaning plant floats along side of dredge. E. Drennen. il diag map Min Cong J 28:38-41 S '42

Modern coal preparation plant. diag Mech Handling 29:145-7 Ag '42

Modern methods mark Esco 10 mining and preparation. J. H. Edwards. flowsheet il Coal Age 47:43-8 S '42

Modernization program at Kansas strip mine includes use of jig method to wash large sizes. C. Lambur, jr. flow diag il Coal Age 47:43-6 Mr '42

More responsibility put on preparation plants. C. P. Proctor. Min & Met 23:103 F '42

New developments in the field of coal preparation. H. P. Nicholson. In Ill U Eng Exp Sta Circ 43:19-24 '42

New operation replaces depleted mine; Gulf smokeless coal company. W. P. Tams, jr. il plan Min Cong J 28:34-5 S '42

New practice in slate loading raises coal production; loaded at face with coal and separated by mechanical cleaning equipment at the preparation plant. C. R. Nailler. flow sheet il diag Min Cong J 28:12-16 Jl '42

Oil treatment, drying and power company coal preferences engage preparation men; April meeting of Illinois society of preparation engineers and chemists. il Coal Age 47:83-4 My '42

Preparation plant of the Dawson Daylight coal co. W. J. Borries. flow diag il Min Cong J 28:8-10 Mr '42

Progress in coal utilization and preparation in 1941. J. E. Tobey. il Min Cong J 28:20-2 F '42

Results up, cost down; preparation plant of the Weirton coal co. J. H. Edwards. flow sheet il Coal Age 47:62-5 Ag '42

Sizing and preparation. J. Harrington. il Power Pl Eng 46:74-6 Jl '42

Surface moisture on coal affects both the mechanics of preparation and marketing; abstract. C. S. Westerberg. Coal Age 47:81-3 Jl '42

War maintenance; preparation plants. il diags Coal Age 47:131-5 O '42

War time coal preparation; maintenance of quality standards. W. D. Steele. Min Cong J 28:45-6 Je '42

Washed oil-treated coal, plus capacity and fast truck loading feature Burning Star agency. il Coal Age 47:76-7 Je '42

Washers for 7x0, plus heat and mechanical drying, top mine-run blending at new Hanna plant. J. H. Edwards. flow sheet il Coal Age 47:47-52 Jl '42

See also

Coal, Pulverized—Preparation
Coal cleaning
Coal drying
Coal screening
Coal sizing
Coal washing

COAL products

Aromatics made by dissolving coal; abstract. H. C. Howard. Coal Age 47:158 O '42

Coal as a source material for the plastics industry. R. L. Wakeman and B. H. Weil. Ind & Eng Chem 34:1387-93 N '42; Abstract. Coal Age 47:156-7 O '42

Coal by-products; solubilizing effect of hydrogenation upon aromatic-derived resins. W. H. Carmody. bibliog Ind & Eng Chem 34:74-8 Ja '42

Coal carbonisation industries in 1941. G. E. Foxwell. Chem Age (Lond) 46:31-2 Ja 10 '42

Coal for water purification; abstract. D. Bogard. Coal Age 47:159-60 O '42

Coal in the manufacture of synthetic rubbers. H. L. Fisher. bibliog Ind & Eng Chem 34:1382-6 N '42; Abstract. Coal Age 47:157-8 O '42

Hydrogen from lignite; other products from char produced by low temperature carbonization. W. B. Pratt. Min Cong J 28:16-17 Mr '42

Molecular weights of hydrogenolysis products from a Pittsburgh seam bituminous coal. J. F. Weiler, J. J. Ward and H. C. Howard. Am Chem Soc J 64:734-6 Ap '42

Plastics progress is coal's opportunity; abstract. R. L. Wakeman and B. H. Weil. Coal Age 47:156-7 O '42

Products from coal. il diag Manuf Rec 111:26-7+ F '42

See also

Coal distillation
Coal liquefaction
Coal tar products
Coke
Gas

COAL pulverizing. See Coal, Pulverized—Preparation

COAL purchasing

Buying and checking fuel. R. E. Hieronymus. Heating-Piping 14:11-14, 96-9 Ja-F '42

COAL research

Absorption of liquids by coal; application of radiographic methods to the problem. G. W. Land. bibliog il Ind & Eng Chem 34:1078-82 S '42

Annual report of research and technologic work on coal, fiscal year 1941. A. C. Fieldner and L. D. Schmidt. bibliog pls U S Bur Mines Information Circ 7190:1-60 '41

Coal in the laboratory; Carnegie institute of technology. Power Pl Eng 46:51 Ja '42

COAL research—*Continued*

Coal research active and covering a wide field. E. R. Kaiser. Min & Met 23:100-1 F '42

Coal research and the war effort. A. W. Thorson. Power Pl Eng 46:98-100 My '42

Coal research offers many possibilities. A. W. Thorson. Coal Age 47:64+ O '42; Same cond. Power Pl Eng 46:82 O '42

Combustion and research questions analyzed at West Virginia fuel conference. Coal Age 47:87-8+ S '42

Combustion and utilization surveyed at Battelle; conference and exhibit sponsored by Bituminous coal research, inc. il Coal Age 47:43, 107-9 Jl '42

Defense aided by research projects; with list of projects in progress or completed in 1941 or planned for 1942. il map Coal Age 47: 85-91 F '42

Experimental plant at University of Iowa produces excellent stoker fuel from Iowa screenings. H. L. Olin and others. il Coal Age 47:69-71 Je '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:4 Ja 10 '42

Mineral matter in coal. G. C. Sprunk and H. J. O'Donnell. il Min Cong J 28:20-3+ Je '42

Products from coal. il diag Manuf Rec 111: 26-7+ F '42

Progress in coal utilization and preparation in 1941. J. E. Tobey. il Min Cong J 28:20-2 F '42

Research in coal utilisation. E. Williams. Engineering 152:514-15 D 26 '41

Subbituminous slack from the northern Colorado field; abstract. V. F. Parry and W. S. Landers. Coal Age 47:83+ Jl '42

Technical and economic study of drying lignite and subbituminous coal by the Fleissner process. L. C. Harrington, V. F. Parry and A. Koth. il diags U S Bur Mines Tech Pa 633:1-84; pa 20c Supt. of doc. '42

Theory of coal pyrolysis. W. Fuchs and A. G. Sandhoff. bibliog il Ind & Eng Chem 34:567-71 My '42

Bibliography

Bibliography of Bureau of mines investigations of coal and its products, 1935 to 1940. A. C. Fieldner. U S Bur Mines Tech Pa 639:1-43; pa 10c Supt. of doc. '42

COAL screening

Bumping unit screens stoker at Ohio truck mine. il diag Coal Age 47:69-70 S '42

Size consist, chemical analysis, and physical properties of 2-½-inch subbituminous slack from the Denver (Colo.) region. V. F. Parry and W. S. Landers. pls U S Bur Mines Rep of Invest 3655:1-30 '42

COAL sizing

Relation of coal sizes to fuel economy; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:489-91 N '42

Sizing and preparation. J. Harrington. il Power Pl Eng 46:74-6 Jl '42

COAL stokers. See Stokers, Mechanical

COAL storage

Coal handling changes cut costs and increase capacity; Mississippi River improvement makes available coal from three additional districts; new storage and handling facilities. P. Woodnorth. il plan Power Pl Eng 46:60-2 Mr '42

Coal piling to prevent losses. diags Water Works & Sewerage 89:184 Ap '42

Coal storage manual. R. E. Turner and others. il diags maps Power Pl Eng 46: 53-76, 166 Jl '42

Effective coal storage depends on know how. il diags plan Power 86:642-3 S '42

Expanded coal storage capacity. diag Elec W 117:1830-1 My 30 '42

Fuel storage and heating value data; reference data. Heat & Ven 39:58a-58b Ag '42

Layering coal stops fires and B.t.u. loss. O. H. Pfersdorff. Elec W 118:640 Ag 22 '42

Method of storing coal prevents oxidation. diags Blast F & Steel Pl 29:[1135] N '41

More coal storage by raising handling control point. il Elec W 117:1834 My 30 '42

Pointers on the storage of coal. J. F. Barkley. diag U S Bur Mines Information Circ 7211:1-7 '42; Same. Gas Age 90:12-14 Jl 2 '42

Practical data for solving wartime fuel storage problems. Heat & Ven 39:21-5 Mr '42

Questions and answers on storage of coal in the Rocky Mountain area. V. F. Parry. U S Bur Mines Information Circ 7214:1-9 '42

Storage of coal. R. A. A. Taylor. Mech Handling 29:96-7 My '42

Storage of subbituminous coal in bins. V. F. Parry and J. B. Goodman. pl U S Bur Mines Rep of Invest 3587:1-10 '41; Excerpts. Power Pl Eng 46:64-6 Je '42

Trucks pile 20,000 tons 20 feet deep; building emergency coal pile. il diags Power 86: 778-80 N '42

See also

Coal bins, Concrete

Safety measures

For the large plant; proper storage of coal. R. J. Brandon. il diags Power Pl Eng 46: 69-73 Jl '42

Guard against spontaneous combustion when storing large quantities of coal. W. D. Langtry. il Brick & Clay Rec 100:21-2 My '42

How to make emergency coal storage safe. diags Power 86:640-1 S '42

Rules for safe storage of coal. Heating-Piping 14:167 Mr '42

Skirting coal piles lessens spontaneous combustion; abstract. C. Scholz. Coal Age 47:63 Jl '42

Storing coal safely. M. K. Drewry. il Power Pl Eng 46:65-8 Jl '42

COAL strikes

Benefits for strikers. Business Week p20 F 7 '42

Captive-coal-mine strike and settlement. Monthly Labor R 54:94-7 Ja '42

14 furnaces banked as coal stocks dwindle; strike spreads. il map Steel 109:29-32+ N 24 '41

Labor's national emergency; C.I.O. support of Lewis. Business Week p15-16 N 22 '41

Lewis accepts Roosevelt arbitration plan ending captive-mine walkout. Coal Age 46: 101-2 D '41

Lewis gets a no. Business Week p14 N 15 '41

Mine-boss strike; union of supervisors defined by NLRB as both employers and employees. Business Week p78 Jl 4 '42

Mine workers win captive mine dispute; arbitrators grant union shop. Coal Age 47:85 Ja '42

Strike in captive coal mines is ended; closed shop issue to be arbitrated. Comm & Fin Chr 154:1248 N 27 '41

COAL supply

Great waste. K. Aldinger. Mech Eng 64:807-8 N '42

Europe

Fuel rationing on the Continent. Economist 142:756 My 30 '42

Germany

Coal rationing. Economist 142:684-5 My 16 '42

Great Britain

Coal conservation; introduction of rationing schemes. Elec R (Lond) 130:398 Mr 27 '42

Coal plan put before Parliament. Economist 142:784-5 Je 6 '42

Coal position; Minister of fuel warns industry of waste. Electrician 129:162 Ag 14 '42

Coal position; suspended rationing scheme. Elec R (Lond) 130:753 Je 12 '42

Coal situation. Engineering 154:291-2 O 9 '42

Coal situation. G. Lloyd George. Elec R (Lond) 131:467 O 9 '42

Coal wanted. Economist 143:411 O 3 '42

Consumers of coal; rationing now. Economist 143:231 Ag 22 '42

Electricity and coal. G. Lloyd George. Electrician 128:636-7 Je 26 '42

Fuel and power. G. Lloyd George. Elec R (Lond) 131:114 Jl 24 '42

COAL supply—Great Britain—*Continued*

Fuel economy. G. Lloyd George. Elec R (Lond) 131:176 Ag 7 '42

Fuel economy campaign. Engineering 154: 171-2 Ag 28 '42

Fuel rationing; delaying tactics. Economist 142:640-1 My 9 '42

National fuel economy. W. Rennie. Engineering 154:15-16 Jl 3 '42

National fuel policy. J. Albinson. Gas J (Lond) 239:130 Jl 22 '42

Not enough coal. Economist 142:319 Mr 7 '42

Points for fuel? Economist 142:564 Ap 25 '42

Proposed fuel rationing scheme. Gas J (Lond) 238:412+ Je 10 '42

Shortage of coal. Economist 142:489-90, 526-7 Ap 11-18 '42; Reply. W. A. Lee. 142:569 Ap 25 '42

Success or failure? Economist 143:201-2 Ag 15 '42

Surrender? Economist 142:674 My 16 '42

White paper on coal; fuel rationing postponed; electrical position. Electrician 128: 583-4 Je 12 '42

Russia

Coal supplies diminishing in U.S.S.R. For Comm W 9:25 N 7 '42

Electricity and coal. Economist 143:49 Jl 11 '42

Russia at war. Economist 143:420 O 3 '42

United States

Coal faces transport difficulties in supplying regular demands. il Nat Pet N 34:28, 30+ Jl 8 '42

Conversion and stocking pressed to meet fuel-oil shortage. il Coal Age 47:37-9 Jl '42

Conversion to coal is still urged by Ickes, Davies. Nat Pet N 34:37-8 Jl 15 '42

COAL tar colors

See also

Dyes and dyeing

Statistics

Coaltar unclassified dyes output, 1941; with comparisons for 1940; tabulation. Oil Paint & Drug Rep 142:42 S 21 '42

COAL tar products

Agricultural uses of coal and its products. H. G. Guy. Gas Age 90:56+ O 8 '42

Average monthly quotations in 1941; tabulation. Steel 110:358 Ja 5 '42

Between the lines; steel and coal tar. K. Tator. il Chem Ind 49:616-17 N '41

Coaltar chemicals, 1941. Oil Paint & Drug Rep 141:56+ Ja 12 '42

Determination of fumigants; composition of heavy coal-tar naphtha. N. F. Sarsfield. diag Soc Chem Ind J 61:1-6 Ja '42

Fuel-oil substitutes in Great Britain. For Comm W 7:18 Je 13 '42

New control orders. Chem Age (Lond) 46:233 My 2 '42

Raw material situation in coal-tar disinfectants. J. H. Carpenter. Soap & San Chem 18:114-16 Jl '42

See also

Benzene
Benzol (commercial benzene)
Coal distillation
Creosote
Indene
Naphthalene
Phenol
Toluene

Analysis

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42

Statistics

Coaltar chemicals. Published in weekly numbers of Oil, paint and drug reporter

COAL tipples

Preparation plant of the Dawson Daylight coal co. W. J. Borries. flow diag il Min Cong J 28:8-10 Mr '42

COAL trade

Coal for victory. L. Harr. Heating-Piping 14:563-4 S '42

Washed oil-treated coal, plus capacity and fast truck loading feature Burning Star agency. il Coal Age 47:76-7 Je '42

See also

Coal delivery

Accounting

Costs of retailing coal. G. W. Starr and H. C. George. 35p School of business, Bur. of business research, Indiana univ, Bloomington '41

Advertising

Anthracite institute uses radio to speed sales and aid Nation. Coal Age 47:116-17 Ap '42

Fuel oil shortage brings anthracite advertising program. Ptr Ink 200:30 Ag 14 '42

Finance

Financing coal dealers. Banking 35:54 Jl '42

Fuel oil shortage helps coal companies. H. Lawrence. Barron's 22:20 Mr 2 '42

Hard coal producers' prospects. Barron's 22:12 Ag 10 '42

Regulation

Bituminous coal division moves to abolish abuses. Coal Age 46:120+ D '41

Ickes named coal coordinator; Gray made acting director. Coal Age 46:108 D '41

It's a rebate; High court rules against co-op's patronage dividend on coal as violation of Guffey act. Business Week p68-9 Jl 4 '42

Lease-mine coal is subject to Coal act. Comm & Fin Chr 154:1672 D 25 '41

National bituminous coal commission: administration of the Bituminous coal act, 1937-1941. R. H. Baker. 356p bibliog(p331-44) $3.50; pa $3 Johns Hopkins press, Baltimore '41

Securities

How much prosperity still in coal companies? G. W. Mathis. Mag of Wall St 71:32-3+ O 17 '42

Statistics

Production, consumption, and stocks of bituminous coal, Jan. 1939-Sept. 1941. Survey of Cur Business 21:5 N '41

Production, consumption, and stocks of bituminous coal, 1940-April 1942; chart. Survey of Cur Business 22:2 Je '42

Weekly coal and coke production statistics. Published in weekly Thursday numbers of Commercial & financial chronicle

Brazil

Coal rationing established. For Comm W 9: 15-16 O 17 '42

Europe

Coal mining in German Europe. Economist 141:533-4 N 1 '41

Great Britain

Administration of coal levies. Economist 143: 88 Jl 18 '42

Coal control. Economist 142:855; 143:70-1 Je 20, Jl 18 '42

Coal economy; discussion. Elec R (Lond) 130:79-80 Ja 16 '42

Coal finance. Economist 143:280 Ag 29 '42

Coal in 1941. Economist 142:sup20+ Mr 14 '42

Coal mining companies; with figures of income, March 31, 1939-1942. Economist 143: 307-8 S 5 '42

Coal-mining royalties. Economist 142:619-20 My 2 '42

Coal output problem. Economist 142:369 Mr 14 '42

Coal production, 1913-1918 and 1938-1942. Economist 143:493 O 17 '42

Coal rights taken; nationalization of royalties. Business Week p36+ Ag 1 '42

Coal traffic. Economist 141:574 N 8 '41

Compensation to coal mines. Economist 142: 83 Ja 17 '42

Government takes over control of British coal industry. Coal Age 47:46-7 Ag '42

COAL trade—Great Britain—*Continued*

Higher coal prices. Economist 143:39 Jl 11 '42

Necessitous collieries; financial assistance. Economist 141:515 O 25 '41

New landlord; ownership of Great Britain's coal estate. Economist 143:24 Jl 4 '42

New methods of conserving coal in United Kingdom; equitable distribution to householders. For Comm W 9:25 N 7 '42

Unified coal control. Economist 142:658 My 9 '42

See also

Coal supply—Great Britain

South Africa

South Africa's coal output mounts. For Comm W 8:22 S 5 '42

Switzerland

Increased production of coal in Switzerland. For Comm W 8:24 Ag 1 '42

United States

Anthracite's ills. Business Week p26+ Ag 8 '42

Bituminous coal. Survey of Cur Business 22: 4-5 S '42

Bituminous coal handbook. K. P. Casey, comp. 423p $5 M. Bender & co, Albany, N.Y. '42

Coal for oil; old competitors cooperating and WPB easing the change. Business Week p16-17 My 16 '42

Coal industry, 1941. J. E. Tobey and others. il Min & Met 23:98-105 F '42

Coal shortage? Business Week p17-18 Jl 11 '42

Ending an active year. Coal Age 47:45-50 F '42

First century and a quarter of American coal industry. H. N. Eavenson. 701p bibliog(p621-64) priv ptd Howard N. Eavenson, Koppers bldg, Pittsburgh '42

How much prosperity still in coal companies? G. W. Mathis. Mag of Wall St 71:32-3+ O 17 '42

Mac's directory and handbook of anthracite. W. C. MacQuown, ed. 6th ed 60p pa $7.50 Nat. coal publications, Law bulletin bldg, Pittsburgh '41

New life in coal. il Business Week p55-6 Je 6 '42

Oil situation grows more critical; conversion and coal use pushed. Coal Age 47:45+ Ag '42

Progress in the anthracite industry, 1941. W. H. Lesser. il Min Cong J 28:27-30 F '42

Stock coal now, to avert rationing later. il Coal Age 47:48-9 Je '42

War plans cause Ickes to urge fuel stocking; coordination framework completed. Coal Age 47:104-6 F '42

Why store coal now? R. E. Turner. maps Power Pl Eng 46:54-7 Jl '42

See also

Coal strikes

COAL washing

Ash control in coal washing plants. P. W. F. J. Moran. il In Ill U Eng Exp Sta Circ 43:29-34 '42

Centrifugal dryer; recovering 10-mesh slurry carbon; preparation-plant, Sentry coal mining co., Madisonville, Ky. J. H. Edwards. il Coal Age 46:47 N '41

Coal drying and other auxiliaries of preparation. J. Hyslop. Min Cong J 28:46 Je '42

Coal washing and flocculation. il Mech Handling 29:134-5 Jl '42

Dewatering with profile-bar equipment improved by the use of baffles. F. Goldbeck. diags Coal Age 47:66 Mr '42

Greater efficiency in washery operation secured by attention to details. il diags Coal Age 47:74+ Ag '42

Modernization program at Kansas strip mine includes use of jig method to wash large sizes. C. Lambur, jr. flow diag il Coal Age 47:43-6 Mr '42

Washed coking coal needed for greater output of pig iron; abstract. W. S. McAleer. Iron Age 150:52 O 8 '42

Washer boxes for coal; patent. diags Mech Handling 28:250-1 N '41

See also

Coal cleaning

COAL waste

Utilization of coal dust and slurry from mines. J. C. Coutant. Blast F & Steel Pl 30:1038+ S '42

See also

Coal washing

COAL weighing

Coal scale has dust-tight housing. il Product Eng 13:76-7 F '42

COALING stations

Electric equipment

Coaling station with automatic controls. flow diag il Ry Age 112:548-9 Mr 14 '42

COALITE

Manchuria industrial development corporation to manufacture coalite. For Comm W 5:20 N 22 '41

COAST changes

Mean sea-level and sand movements. H. Leypoldt. diags Science 94:607-9 D 26 '41; Discussion. F. P. Shepard and E. C. La Fond. bibliog 95:193-4 F 20 '42

Shoreline changes on Plum Island, Mass. R. I. Nichols. maps Am J Sci 240:349-55, pl 1 My '42

COAST guard. See United States—Coast guard

COAST guard (Great Britain)

Gallant little Campeador. C. Hunt. 72p $1.50 S. J. Reginald Saunders, 84 Wellington st, W, Toronto

COAST guard cutters

Test of transient conditions in maneuvering a Coast Guard harbor cutter; abstract and discussion. H. H. Curry and J. C. Fink. Marine Eng 46:100+ D '41

COASTAL plains

Base-exchange and sulphate reduction in salty ground waters along Atlantic and Gulf coasts. M. D. Foster. bibliog Am Assn Pet Geologists Bul 26:838-51 My '42

COATED paper. See Paper, Coated

COATING fabrics

Finishing army overcoatings. D. Welsh. il Textile World 92:68-9 Mr '42

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

Manufacturing army overcoatings. F. Sykes. il Textile World 92:66-7 Mr '42

COATING materials. See Finishing materials

COAXIAL cables. See Radio lines

COBALT

Adherence of glass to metals. R. M. King. bibliog Glass Ind 23:421-3+ N '42

Cobalt, its uses and substitutes. Metals & Alloys 15:884+ My '42

Colored glasses; extinction coefficients for chromium and cobalt. S. R. Scholes and R. H. Dows. Glass Ind 23:301-3+ Ag '42

Decomposition of carbon monoxide by ferromagnetic metals. F. Olmer. bibliog diag J Phys Chem 46:405-14 Mr '42

Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42

Emissivities and temperature scales of the iron group. H. B. Wahlin and R. Wright. J Ap Phys 13:40-2 Ja '42

Energy values of the $3d^{8}4p$ electronic configuration of cobalt. M. T. Antunes. Phys R 62:362-8 O 1 '42

Lowering cobalt content of welded coating alloys. Iron Age 149:48 Ap 16 '42

Minor metals, 1941. H. W. Davis. Eng & Min J 143:51 F '42

Priorities division allocates cobalt. News Ed 19:1376 N 25 '41

Sorption of hydrogen by metals; temperature variation experiments. C. W. Griffin. Am Chem Soc J 63:2957-60 N '41

Thermionic properties of the iron group. H. B. Wahlin. bibliog Phys R 61:509-12 Ap 1 '42

COBALT—*Continued*

Uses and possible substitutes for cobalt. J. Koster and H. W. Davis. Steel 111:80-1+ Jl 6 '42

Analysis

Determination of cobalt and manganese by photometric methods. L. Waldbauer and N. M. Ward. bibliog Ind & Eng Chem Anal ed 14:727-8 S 15 '42

Entrainment of cobalt by tin(IV) sulfide. J. F. Flagg. bibliog Am Chem Soc J 63: 3150-3 N '41

Orthonitrosophenol as a new reagent in colorimetric analysis; determination of cobalt. G. Cronheim. bibliog Ind & Eng Chem Anal ed 14:445-7 My 15 '42

Isotopes

Characteristic radiations of Co^{60}. M. E. Nelson, M. L. Pool and J. D. Kurbatov. bibliog Phys R 62:1-3 Jl 1 '42

Nuclear excitations resulting from radioactive decay. E. H. Plesset. bibliog il Phys R 62:181-6 S 1 '42

Radioactive isotopes of cobalt. J. J. Livingood and G. T. Seaborg. bibliog Phys R 60:913 D 15 '41

COBALT alloys

Cobalt-nickel deposition. C. C. Downie. Elec R (Lond) 131:11-12 Jl 3 '42

High-conductivity beryllium-cobalt-copper alloy. Engineering 153:287 Ap 10 '42

Kut-Kost, a new metal-cutting alloy. Mach 49:159 O '42

New alloy for working at high temperature; K-42-B; nickel, cobalt, titanium, iron, chromium. P. H. Brace. il Metal Prog 41: 354-60 Mr '42

See also

Iron alloys—Cobalt tungsten alloys

Stellite

Vitallium

COBALT arsenides

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

COBALT citrate

Catalysts for peroxide decomposition. M. Bobtelsky and A. E. Simchen. Am Chem Soc J 64:2492-8 O '42

COBALT compounds

Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42

COBALT nitrate

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

COBALT plating

Cobalt-nickel deposition. C. C. Downie. Elec R (Lond) 131:11-12 Jl 3 '42

COBALT steel

Cobalt alloy magnets; substitutes and their properties. J. Koster and H. W. Davis. Product Eng 13:399-402 Jl '42

Uses and possible substitutes for cobalt. J. Koster and H. W. Davis. Steel 111:80-1+ Jl 6 '42

COBURN, Frederic Gallup, 1883-

Portrait. Business Week p18 D 6 '41

COCA-COLA

Traveling laboratory control of bottlers' operation; Coca-Cola company. B. Wells. il Am Water Works Assn J 34:1035-41 Jl '42; Same. Water & Sewage 80:23-4+ Jl '42

COCA-COLA company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:643 O 3 '42

Litigation ended amicably between company and Pepsi-Cola co. Comm & Fin Chr 155: 2093 Je 1 '42

See also

Panama Coca-Cola bottling company

COCARBOXYLASE

Cocarboxylase and related esters. J. Weijlard. bibliog Am Chem Soc J 64:2279-82 O '42

COCCIDIOIDES

Isolation of coccidioides from soil and rodents. C. W. Emmons. bibliog Pub Health Rep 57:109-11 Ja 23 '42

COCKROACHES

Pyrethrum vs. roaches. F. L. Campbell. bibliog il Soap & San Chem 18:90-3, 103+ My; 119+ Je '42

Roach testing; a progress report describing a new method of testing roach sprays. E. R. McGovran and J. H. Fales. diag Soap & San Chem 18:101+ Mr '42

Sodium fluoride. bibliog il Soap & San Chem 18:90-3 Ap '42

COCOA

Cocoa in paper; Hershey new wartime paperboard container. il Mod Packaging 16:60 O '42

Cocoa's ascent. Business Week p80 N 15 '41

Doling out cocoa; WPB's 30% reduction in grinding of beans. Business Week p77-8 My 16 '42

Effects of new cocoa restrictions. Barron's 22: 12 Je 29 '42

Foodstuffs and allied products; coffee and cocoa. Published in Foreign commerce weekly

Industrial uses of chemicals and related materials; cocoa beans. Oil Paint & Drug Rep 142:67 O 26 '42

Less cocoa for confections, orders WPB. For Comm W 7:20-1 My 30 '42

Limits use of cocoa. Comm & Fin Chr 155: 1950 My 21 '42

West African cocoa. Economist 141:664 N 29 '41

Why further cocoa restrictions are likely. Barron's 22:6 Jl 13 '42

Prices

Price administrator hits evasions of cocoa pricing provisions. For Comm W 7:23-4 Je 6 '42

COCONUT

Coconut products in British West Indies. For Comm W 7:26 My 30 '42

Coconut shell charcoal; effect of concentration of zinc chloride and of hydrochloric acid on activity. L. Ts'ai and K. Chuang. Ind & Eng Chem 34:812-13 Jl '42

Heats of wetting for the evaluation of gas-adsorbing coconut carbons. H. W. Stone and R. O. Clinton. bibliog diag Ind & Eng Chem Anal ed 14:131-5 F 15 '42

COCONUT oil

Coconut oil. map Soap & San Chem 18:21-4+ Mr '42

Coconut oil extraction; abstract. V. G. Lava, P. E. Torres and S. Sanvictores. Soap & San Chem 18:58 Ja '42

Coconut oil process bypasses copra stage. V. G. Lava, P. E. Torres and S. Sanvictores. Oil Paint & Drug Rep 141:7+ Ja 26 '42

Coconut oil tax discrimination fought. Oil Paint & Drug Rep 141:5+ Mr 9 '42

In place of coconut oil. C. R. Kemp. Soap & San Chem 18:21-3 Ap '42

Nuts, beans, seeds and oil; situation in oils and fats. Sci Am 166:236 My '42

Vegetable oils in sugar confectionery; sweetening agents; solubilising starch. A. E. Williams. Chem Age (Lond) 47:362-4 O 24 '42

War time problems of the soap maker. A. P. Lee. il Soap & San Chem 18:23-6+ Je '42

COD fisheries

Newfoundland codfish industry, 1941. For Comm W 6:19 Ja 17 '42

Newfoundland's codfish business, 1940 and 1942. For Comm W 7:19 Je 13 '42

COD liver oil

Cod-liver oil from Newfoundland; exports, 1939-40 and 1940-41. For Comm W 7:24 Je 13 '42

COD liver oil—*Continued*

Cod liver oil ointment in surgery. R. H. Aldrich. bibliog il Ind Med 11:153-7 Ap '42

Cod liver oil ointment with sulfonamides in wounds and osteomyelitis. S. J. Wolferman and W. F. Adams. Ind Med 11:318-19 Jl '42

Fish oil for New Zealand; imports affected by war conditions. Chem Age (Lond) 45: 215 O 18 '41

CODES (symbols). See Symbols

CODFISH cakes

Advertising

Transitional period copy theme is supplied by tin shortage; Gorton-Pew fisheries. il Ptr Ink 198:44+ Mr 27 '42

COEFFICIENT of elasticity of demand. See Supply and demand

COERCIMETERS

Development and application of the coercimeter. V. H. Gottschalk. pl diags In U S Bur Mines Bul 425:96-108 '41

New method for the rapid determination of carbon in samples of plain carbon open-hearth steel. B. A. Rogers, K. Wentzel and J. P. Riott. pl diag In U S Bur Mines Bul 425:345-53 '41

Use of the coercimeter in grinding tests. F. D. DeVaney and W. H. Coghill. In U S Bur Mines Bul 425:324-34 '41

COES, Harold Vinton, 1883-

Elected president of A.S.M.E. por Mach 49: 154 O '42

Portrait. Mech Eng 64:634 Ag '42

COFFEE

Caramel in roasted coffee; abstract. P. Cattaneo and J. Viggiano. Food Ind 14:100 Mr '42

Coffee jars ride former tin lines. R. Latimer. il Mod Packaging 16:73-5 N '42

Facts about caffeine, theobromine in foods. P. W. Punnett. il Food Ind 14:52-3+ Mr '42

Improved coffee extracts; patents. Food Ind 14:114 O '42

World's largest coffee plant, Hoboken home of Maxwell House; illustrations. Food Ind 14:44-5 Mr '42

Prices

Coffee importing pact. Comm & Fin Chr 156: 815 S 3 '42

Evasions criticized by price administrator. For Comm W 7:17 My 16 '42

OPA ruling on Puerto Rico's green-coffee sales. For Comm W 7:19-20 My 9 '42

Wants coffee roasters to pay importers more. Comm & Fin Chr 156:644 Ag 20 '42

Wholesale price of coffee, Santos, no. 4, New York; new series, monthly, 1913-1940. Survey of Cur Business 22:22 Ap '42

Rationing

Coffee rationing; how it will affect roasters and retailers. Barron's 22:6 N 2 '42

Coffee to be rationed beginning Nov. 28. Comm & Fin Chr 156:1711 N 12 '42

Half-ration coffee. il Business Week p14 O 31 '42

Transportation

Wood, wind, and sail, the coffee fleet; with table giving ports of call, time, and cargo of the sailing fleet. W. C. Taylor. il map For Comm W 7:3-5, 41-2 My 23 '42

COFFEE, Frozen

Frozen coffee; invention of John C. Donnelly. il Sci Am 166:80-1 F '42

COFFEE, Soluble

Rating

Soluble coffees. Consumers' Research Bul 9: 14 Je '42

COFFEE trade

Coffee agreement; countries not signatories of Inter-American agreement. Comm & Fin Chr 156:816 S 3 '42

Coffee and shoes rank high in wartime needs of males; P.I. survey. P. H. Erbes, jr. Ptr Ink 200:15-16+ Jl 10 '42

Coffee freeze. Business Week p82 My 2 '42

Coffee import quotas adjusted to 110% of basic quotas. Comm & Fin Chr 154:1159 N 22 '41

Coffee quotas increased. Comm & Fin Chr 156:285 Jl 23 '42

Coffee quotas raised. Comm & Fin Chr 155: 1039 Mr 12 '42

Coffee rationing; how it will affect roasters and retailers. Barron's 22:6 N 2 '42

Coffee supply situation tightens. Barron's 22:6 O 5 '42

Coffee; volatile brew of cooperation or competition. W. LaVarre. il For Comm W 5: 4-6+ N 15 '41

Coffee; wartime fortunes affect Latin American countries and such United States companies, as Great Atlantic & Pacific tea co., etc. Barron's 22:6 Jl 13 '42

Continental Coffee develops new lines to beat shortage threat. Sales Management 51: 43 N 1 '42

Cut coffee consumption. Comm & Fin Chr 156:816 S 3 '42

Government clarifies coffee-import procedure. For Comm W 8:24 Jl 11 '42

How to measure brand loyalty; four important factors are basis of coffee preference study. H. L. Churchill. Adv & Sell 35: 24+ Ag '42

Many coffee firms adopt glass pack; multiple grinds to go? il Sales Management 50:52-5 Je 15 '42

Plenty of coffee. Business Week p98 Jl 25 '42

Private companies resume insuring coffee imports. Nat Underw 46:1+ Ag 6 '42

Quota coffee authorized for entry for consumption; preliminary figures. For Comm W 7:27 My 23 '42

Restrict coffee delivery. Comm & Fin Chr 155:1781 My 7 '42

To aid coffee trade industry. Comm & Fin Chr 156:375 Jl 30 '42

Ukers' international tea and coffee buyers' guide. W. H. Ukers. 11th ed 244p pa $2 Tea and coffee trade journal co, 79 Wall st, New York '42

War risk insurance on coffee shipments. For Comm W 8:21 Jl 25 '42

Advertising

Advertising can help stop coffee and food hoarders. il Ptr Ink 201:34 O 16 '42

Campaign ready for post-war release; Barrington Hall coffee. il Ptr Ink 201:26+ O 30 '42

Statistics

Green coffee in general-order warehouse and foreign trade zone as of March 31, 1942, by country of production; tabulation. For Comm W 7:22 My 2 '42

Green coffee stocks in U.S., December 31, 1941. For Comm W 6:18 Ja 31 '42

News by commodities; coffee and cocoa. Published in Foreign commerce weekly

United States imports and visible supply of green coffee, 1939-40 and 1940-41. For Comm W 5:23 N 22 '41

Brazil

Brazil's 1940 and 1941 exports, by country of destination. For Comm W 8:24 Jl 4 '42

Colombia

Coffee, and the future of Colombian bonds. F. M. Stern. Barron's 21:8 D 29 '41

Dominican Republic

Dominican coffee export. Comm & Fin Chr 155:961 Mr 5 '42

Great Britain

Coffee control. Economist 141:762 D 20 '41

Guatemala

News by commodities. For Comm W 7:20 My 9 '42

Peru

Peru's coffee industry and trade. For Comm W 7:25 Je 27 '42

Puerto Rico

OPA ruling on Puerto Rico's green-coffee sales. For Comm W 7:19-20 My 9 '42

COFFEE trade—Puerto Rico—*Continued*

War opens new market for Puerto Rico coffee il Ptr Ink 198:52 Mr 6 '42

Salvador

El Salvador weathers the storm. il For Comm W 8:3-5+ S 19 '42

Exports of coffee from El Salvador by countries for 1939, 1940, and 1941; tabulation. For Comm W 6:19 F 14 '42

News by commodities. For Comm W 7:20 My 9 '42

Venezuela

Faces coffee surplus. Comm & Fin Chr 155:1699 Ap 30 '42

COFFEE tree, Kentucky. See Kentucky coffee tree

COFFERDAMS

Big rigs drive cofferdam piles; TVA's big Kentucky dam. J. W. Peerson. il diags Eng N 128:194-9 Ja 29 '42

Cherokee dam. il diags plan Engineer 174:75-7 Jl 24 '42

Cofferdam design for Kentucky dam. A. F. Hedman. il diags plan Eng N 128:30-5 Ja 1 '42

Dropping concrete 50 ft. without segregation. il Eng N 128:193 Ja 29 '42

See also

Bridges—Foundations and piers

COFFIN foundation

Charles A. Coffin fellowship awards, 1942-43. Gen Elec R 45:233 Ap '42

San Diego gas and electric company wins Charles A. Coffin Foundation award. Gen Elec R 45:591 O '42

San Diego receives the Charles A. Coffin award; other awards. Elec W 117:2071 Je 13 '42

COILS

Absolute determination of the ampere, using helical and spiral coils. R. W. Curtis, R. L. Driscoll and C. L. Critchfield. bibliog diag J Research Nat Bur Stand 28:133-57 F '42

Arc-fused field coil repaired in 5 days. diags Elec W 117:1862 My 30 '42

Fluxgraph; machine for plotting the magnetic fields of coils. P. G. Weiller. il diag Electronics 15:52-3 My '42

Formulas for the magnetic-field strength near a cylindrical coil. H. B. Dwight. bibliog diags Elec Eng 61:Trans 327-33 Je '42

New current coils convert meters. il Elec W 118:472 Ag 8 '42

Pantograph jack for regulator coils. il Elec W 118:1462+ O 31 '42

Synthetic resin varnish; advantages for coil insulation. L. E. Frost and G. L. Moses. il Product Eng 13:144-6 Mr '42

Twister protects repaired rotor coils. il diag Elec W 118:1306 O 17 '42

See also

Armatures—Testing
Electromagnets
Inductance coils

Manufacture

Leesona coil winding machine. il Electrician 128:263-4 Mr 20 '42

Testing

Coil testing quickly done with new machine. il Sci Am 166:288 Je '42

Radio frequency coil analyzer. H. L. Poling. il diag Radio N 27:16-17+ Je '42

COILS, Pipe

Cleaning of blast furnace cooling coils increases furnace life. K. I. Robinson. il Blast F & Steel Pl 29:1207-9 D '41

How does the switch to steel affect heating surface performance? Heating-Piping 14:166-7 Mr '42

Tubes expanded to bond fins of cooling coils. il Iron Age 150:53 Jl 16 '42

COIN banks

Bank from beryllium; die construction, use of beryllium copper molds and molding technique for Johnson souvenir banks. il Mod Plastics 19:45 My '42

COIN mechanisms

Metallurgy of the slug racket. F. T. Sisco. Min & Met 23:34 Ja '42

COINAGE

See also

United States—Mint

COINAGE, International

Plowshares and pruning hooks. O. L. Woodbury. 64p $1.25 Christopher pub. house, Boston '41

COINS

Coins of South America, silver and copper. W. Raymond, comp. 44p bibliog(p3) pa $1 Wayte Raymond, New York '42

New coins conserve strategic metals. Burroughs Clearing House 26:20-1 Mr '42

New five-cent piece to contain no nickel. Comm & Fin Chr 155:445 Ja 29 '42

Nickelless nickel; tin being taken from cent. Business Week p23-4 F 28 '42

1942 handbook of United States coins. R. S. Yeoman, L. F. Hewitt and C. E. Green. 123p 50c Whitman pub. co, Racine, Wis. '42

Output of pennies cut to conserve copper. Comm & Fin Chr 156:1433 O 22 '42

Possible substitutes for nickel in the present five-cent coin. C. T. Anderson. U S Bur Mines Rep of Invest 3658:1-6 '42

Silver situation may create shortage of nickels. Burroughs Clearing House 26:21+ S '42

Treasury changes metals for new five-cent piece. Comm & Fin Chr 156:979 S 17 '42

War born currency. B. E. Clough. il Banking 35:34-5 O '42

See also

Dollar

COKE

Carbonization and coke. Am Gas Assn Proc 1941:561-3

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

Future of coke. J. G. Bennett. Gas J (Lond) 237:287, 289, 314-15, 358, 363, 399, 401 bibliog(75 titles, p401) F 25-Mr 18 '42; Same cond. Engineering 153:236-7, 244-5, 297-8 Mr 20-27, Ap 10 '42; Abstract. Chem Age (Lond) 46:112 F 28 '42

Physical properties of cokes from Bureau of mines-American gas association tests at 800° and 900°C. D. A. Reynolds and C. R. Holmes. U S Bur Mines Rep of Invest 3650:1-14 '42

Plan to improve blast furnace coke; selection of coking coals. W. T. Brown. diag maps Blast F & Steel Pl 30:1137-45, 1255-63 O-N '42

See also

Coke ovens
Petroleum coke

Analysis

Volumetric determination of sulfur in coal and coke. S. S. Tomkins. bibliog Ind & Eng Chem Anal ed 14:141-5 F 15 '42

Prices

Beehive coke, 1929-1941; tabulation. Steel 110:362 Ja 5 '42

Coke prices. Published in weekly numbers of Iron age

Furnace and founding coke, monthly, 1929-1941; tabulations. Iron Age 149:185 Ja 1 '42

Price schedule. Iron Age 149:136+ Ja 1 '42

W.P.B. priority rulings; amendment no. 1 to price schedule no. 29, by-product blast furnace and by-product foundry coke. Am Gas J 156:29-30 Mr '42

Semi-coke

Carbonization of coal by the Disco process. C. E. Lesher. In Ill U Eng Exp Sta Circ 43:35-40 '42

Standards

Coke quality; report of the I.G.E. committee. Gas J (Lond) 240:98+ O 21 '42

COKE handling

Coal and coke handling at a modern gasworks. diags Mech Handling 29:130-2 Jl '42

Extracting coke from vertical retorts; patent. diags Gas J (Lond) 237:217 F 11 '42

COKE industry

Beehive coke ovens key to success of expansion program. T. C. Campbell. il Iron Age 149:80-1 Ja 29 '42

Coke diversion; beehive ovens have staged spectacular comeback. il Business Week p24+ Ag 8 '42

Statistics

Gas and coal products, 1941. Chem & Met Eng 49:101-2 F '42

Production of coke in U.S. Gas Age 88:40 D 4 '41

Great Britain

Future of coke. J. G. Bennett. Gas J (Lond) 237:287, 289, 314-15, 358, 363, 399, 401 bibliog(75 titles, p401) F 25-Mr 18 '42; Same cond. Engineering 153:236-7, 244-5, 297-8 Mr 20-27, Ap 10 '42

London and counties coke association 9th annual general meeting, London, Sept. 21. Gas J (Lond) 239:501-2 S 30 '42

COKE manufacture

By-product oven operation under present day conditions. W. T. Brown. il Blast F & Steel Pl 30:67-71, 219-23+ Ja-F '42

Carbonization of coal by the Disco process. C. E. Lesher. In Ill U Eng Exp Sta Circ 43:35-40 '42

Carbonizing properties and petrographic composition of Powellton-bed coal from Elk Creek no. 1 mine, Emmett, Logan county, W.Va., and the effect of blending this coal with Pocahontas no. 3- and no. 4-bed coals. J. D. Davis and others. bibliog il U S Bur Mines Tech Pa 630:1-45; pa 10c Supt. of doc. '41

Cleaning coking coals. J. Griffen. Steel 110: 80+ Mr 2 '42

Coke grading and oxide purification. K. Graham. Gas J (Lond) 237:103, 105; Discussion. 105 Ja 21 '42

Expansion of coal during coking. J. T. McCartney and J. D. Davis. bibliog pls U S Bur Mines Rep of Invest 3644:1-23 '42

Future of coke. J. G. Bennett. Gas J (Lond) 237:287, 289 F 25 '42; Same. Engineering 153:236-7 Mr 20 '42

Physical properties of cokes from Bureau of mines-American gas association tests at 800° and 900°C. D. A. Reynolds and C. R. Holmes. U S Bur Mines Rep of Invest 3650:1-14 '42

Plastic and swelling properties of bituminous coking coals. R. E. Brewer. diags U S Bur Mines Bul 445:1-260 bibliog(324 titles, p243-58); pa 30c Supt. of doc. '42

Processing and carbonization of coal. A. C. Fieldner. il Min & Met 23:103-4 F '42

Selection of coals for coke making. J. D. Davis. bibliog pls U S Bur Mines Rep of Invest 3601:1-29 '42

Selection of coals for war-time carbonization by means of an improved engineering model of the coke oven; apparatus for studying stresses, strains and other coal characteristics during coking. J. H. Swiniarski, M. C. Cryan and V. J. Altieri. il plan diag Gas Age 89:14-15 Je 18 '42

Studies concerning the pressure developed during the carbonization of coal. W. Fuchs and others. 47p bibliog(p46-7) pa 50c Pennsylvania state college, State College, Pa. '41

Vertical retorts and the manufacture of activated coke. A. T. Green. il Gas J (Lond) 237:394, 399 Mr 18 '42

See also

Coke-oven gas

Coke ovens

Gas manufacture—By-products

By-products

Agricultural uses of coal and its products. H. G. Guy. Gas Age 90:56+ O 8 '42

Ammonium sulphate production; low-differential, large-crystal ammonium sulphate process. W. Tiddy. flow sheets il Blast F & Steel Pl 29:1213-17, 1243 D '41; Same cond. Gas Age 89:16-17 Je 18 '42

Between the lines; steel and coal tar. K. Tator. il Chem Ind 49:616-17 N '41

By-product oven operation under present day conditions. W. T. Brown. Blast F & Steel Pl 30:222-3 F '42

See also

Benzol (commercial benzene)

Coke-oven gas

Coke plants, By-product

Toluene

COKE-oven gas

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41

Electric gas treater for removal of nitric oxide from fuel gas; Boston consolidated gas company. E. V. Harlow. il Am Gas Assn Mo 24:114-15 Mr '42

Interesting developments concerning the saving of gas oil by mixing high B.t.u. coke oven gas and blue gas. R. E. Kruger. Am Gas Assn Proc 1941:635-43; Same. Am Gas Assn Mo 24:371-5 O '42; Same cond. Gas Age 88:28-30+ D 4 '41; Excerpts. Gas J (Lond) 237:316 Mr 4 '42; Abstract. Am Gas J 155:65-6 N '41; Discussion. Am Gas Assn Proc 1941:643-5

New principles in heating Koppers-Becker coke ovens. W. C. Rueckel. diags Blast F & Steel Pl 30:331-8, 431-6 Mr-Ap '42; Abstract. Metal Prog 42:926-7 N '42

Recovery of pyridine bases from coke oven gas and methods for determining them. H. J. Meredith. flow diag bibliog Am Gas Assn Proc 1941:656-64; Excerpt. Am Gas J 155: 68-9, 77-8 N '41; Discussion. Am Gas Assn Proc 1941:664-7

COKE ovens

Citizen's gas and coke utility completes 41 new coke ovens. R. Latimer. il Gas Age 89:20-1 F 12 '42

Coke diversion; beehive ovens have staged spectacular comeback. il Business Week p24+ Ag 8 '42

Handrail guard for coke oven platform. A. E. Parker. il diag Nat Safety N 46:31 Jl '42

Heating of coke ovens. U. L. Koski. Blast F & Steel Pl 30:775-7 Jl '42

New principles in heating Koppers-Becker coke ovens. W. C. Rueckel. diags Blast F & Steel Pl 30:331-8, 431-6 Mr-Ap '42; Abstract. Metal Prog 42:926-7 N '42

Rectifier performs well on fluctuating load of coke ovens. L. T. Jones. il Elec W 118: 923-4 S 19 '42

See also

Coke manufacture

Coke-oven gas

Models

Selection of coals for war-time carbonization by means of an improved engineering model of the coke oven; apparatus for studying stresses, strains and other coal characteristics during coking. J. H. Swiniarski, M. C. Cryan and V. J. Altieri. il plan diag Gas Age 89:14-15 Je 18 '42

COKE plants

Accidents

Coke-oven accidents in the United States during the calendar year 1940. W. W. Adams and V. E. Wrenn. U S Bur Mines Tech Pa 640:1-19; pa 5c Supt. of doc. '41

Equipment

See also

Coke handling

Coke ovens

COKE plants, By-product

Byproduct coke plant; flow chart. il Chem & Met Eng 48:104-7 D '41

By-product oven operation under present day conditions. W. T. Brown. il Blast F & Steel Pl 30:67-71, 219-23+ Ja-F '42

See also

Coke manufacture—By-products

COKE plants, By-product—*Continued*

Waste

Investigations at Mellon institute 1941-42; gratifying progress in waste disposal from by-product coking. il Chem & Eng N 20:450 Ap 10 '42

COKE research

Coke research; report of Midland coke research committee for 1941. Engineering 154:337 O 23 '42

Midland coke research committee; report of progress during 1940. Chem & Ind 60:845-8 N 29 '41; Abstract. Engineering 152:450 D 5 '41

COLA

Kola nuts harvested in the colonies of Nigeria, the Gold Coast, and Sierra Leone. For Comm W 5:21 D 27 '41

COLCHICINE

Colchicine induced univalents in diploid antirrhinum majus L. A. H. Sparrow. Science 96:363-4 O 16 '42

Fertile tetraploids of sesame, sesamum indicum Loew, induced by colchicine. D. G. Langham. Science 95:204 F 20 '42

Key to new knowledge on animal reproduction and on cancer; abstract. E. Allen. Science 96:sup12 S 4 '42

Report on experiments with colchicine by laymen scientists during 1941. O. J. Eigsti and B. Tenney. 32p pa 35c Univ. of Oklahoma press, Norman '42

COLD

See also
Cooling
Temperature—
Physiological effect
Temperature, Low

Physiological effect

Life and death at low temperatures. B. J. Luyet and P. M. Gehenio. 341p bibliog (p296-328) $4.50 Biodynamica, Normandy, Mo. '40

Longevity of fowl spermatozoa in frozen condition. C. S. Shaffner. Science 96:337 O 9 '42

Therapeutic use

Refrigeration for insanity; hibernation at lowered temperatures promises value as a treatment. B. M. Newman. il Sci Am 167:160-2 O '42

Shockless surgery; ice anesthesia, boon to aged in limb operations and a promise for war wounded in the field. B. M. Newman. il Sci Am 166:182-4 Ap '42

COLD (disease)

Colds on the payroll. Am Business 12:28-31 O '42

Crowds and colds. Safety Eng 82:43 D '41

Dental services in industry; observations on their effects in the reduction of absenteeism. H. A. Hooper. bibliog Ind Med 11:157-62 Ap '42

Experience with cold vaccines. Management R 31:48 F '42

Respiratory infections; prophylaxis with oral water-soluble antigenic substances. J. C. Sessions. bibliog Ind Med 11:373-5 Ag '42

Sulfadiazine for the treatment of colds; abstract. M. Siegel. Science 96:sup 10 Jl 10 '42

COLD cathode. See Electric lamps, Fluorescent—Cold cathode

COLD creams. See Cosmetics

COLD rooms. See Testing laboratories—Cold rooms

COLD storage

Allies of refrigeration in food preservation. A. W. Ewell. bibliog Refrig Eng 43:159-61; Discussion. 161-2 Mr '42

Apple growers favor private cold storage plants. H. H. Slawson. Refrig Eng 43:390+ Je '42

Cold storage. C. Leech. il Refrig Eng 43:22+ Ja '42

Controlled atmosphere storage for Jonathan apples; storing in four levels of carbon dioxide concentration by restricted ventilation. H. H. Plagge. bibliog il Refrig Eng 43:215-20 Ap '42

Cooling, heating used to protect flying suits; storage of wool-and-fur suits. Refrig Eng 44:321 N '42

External factors affecting water loss from apples in cold storage. S. A. Pieniazek. Refrig Eng 44:171-3 S '42

How to build a basement cold storage room. diags plans Am Bld 64:63 Je '42

How to prevent annoying freezebacks. M. A. Radamaker. diag Power Pl Eng 46:92-3 Ja '42

Kinetics as a function of temperature of lipase, trypsin, and invertase activity from -70 to 50 deg. C. (-94 to 122 deg. F.); abstract. I. W. Sizer and E. S. Josephson. Food Ind 14:113 O '42

Refrigeration in wartime England. T. Raymond. il Refrig Eng 44:80-1 Ag '42

Scientific research and the fish industry. G. A. Reay. Chem & Ind 61:281-3 Je 27 '42

COLD storage locker insurance. See Insurance, Cold storage locker

COLD storage lockers

Case for lockers. Business Week p26+ O 3 '42

Cooperative cold-storage plants. Monthly Labor R 54:116-17 Ja '42

Experiences in the operation of rural community locker plants. L. N. Baker. il plan Refrig Eng 42:375-80 D '41

Experts discuss locker problems. Food Ind 13:78 D '41

Farmer's locker plants are a booming industry; pictograph. Sales Management 49:42 N 15 '41

Frozen assets and a picturesque old mill; Delaware Valley food lockers, Yardley, Pa. A. B. Chamberlain. Refrig Eng 44:308 N '42

Frozen food locker industry; its place in the war program. W. Carver. Refrig Eng 44:147-50, 202+ S '42

Housewife and her locker. N. Orr. Refrig Eng 44:235-6 O '42

New type of frozen foods locker. F. W. Knowles. il plans Refrig Eng 43:157-8+ Mr '42

Plate type evaporators as used in locker plants. A. F. Sawyer. il Refrig Eng 44:17-18 Jl '42

Bibliography

Freezer locker publications. J. E. Nicholas, comp. Refrig Eng 44:242 O '42

Power

Diesel-electric power generation for frozen food plants. J. E. Hubel. il Refrig Eng 43:354-6 Je '42

COLD storage warehouses

Cold storage. C. Leech. il Refrig Eng 43:22+ Ja '42

Office of defense transportation says more refrigerated storage space is needed. Refrig Eng 43:348 Je '42

Railroad storage requirements for quick-frozen foods. il Ry Age 112:862-4 My 2 '42

COLD storage warehouses, Cooperative

Cooperative cold storage in Mississippi. H. H. Slawson. Refrig Eng 43:213-14 Ap '42

COLD treatment of metals. See Metals, Cold treatment of

COLD working of metals. See Metals, Cold working of

COLE, Edwin J. 1867-1941

Sketch. por East Underw 42:24 D 26 '41

COLE, Gordon E.

Portrait. Sales Management 49:76 D 1 '41

COLEMAN, D'Alton Corry, 1879-

Vice-president succeeds to Canadian Pacific's executive post. por Ry Age 112:901-2 My 9 '42

COLGATE-PALMOLIVE-PEET company
Annual report. Comm & Fin Chr 155:1505 Ap 13 '42
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:598 S 19 '42

COLLAGEN
Electron microscope observations of collagen. C. E. Hall, M. A. Jakus and F. O. Schmitt. il Am Chem Soc J 64:1234 My '42
Long X-ray diffraction spacings of collagen. R. S. Bear. Am Chem Soc J 64:727 Mr '42

Analysis

Carbohydrate content of collagen. J. Beek, jr. J Research Nat Bur Stand 27:507-17 D '41

COLLATERAL. See Loans, Bank—Collateral

COLLECTING of accounts
Cash in on your bad debts in good times, now! A. C. Kiechlin. Inland Ptr 109:38-9 Je '42
Charged off loans collected by systematic handling. J. L. Reese. Bankers Mo 58:552-3 D '41
Collecting money and good will. J. G. Ross. Am Gas Assn Proc 1941:180-3; Same abr. Am Gas Assn Mo 23:310-11 S '41
Collection letters are best when written largely from sales angle. C. A. Emley. Ptr Ink 197:79-82 D 5 '41
Collection letters can be friendly, yet firm. Ptr Ink 197:37+ N 21 '41
Commercial credit and collection practice. W. H. Irons. 606p $4.50 Ronald press '42
Definite collection policy; importance of a systemized routine. W. N. Kuntz, jr. Credit & Fin Management 43:12-13+ D '41
Friendly collection letters in times like these. Ptr Ink 199:18-19 Je 19 '42
Joint administration and collection of water and sewer accounts. bibliog Am Water Works Assn J 33:1911-22 N '41; Same. Water Works & Sewerage 88:530-4 N '41; Discussion. Am Water Works Assn J 33:1923-8 N '41; Water Works & Sewerage 88:534-5 N '41
New collection methods to reduce personnel and equipment. H. S. Hahn. Am Gas Assn Mo 24:274-5 Jl-Ag '42
Psychology of credit letters. H. M. Sommers. Credit & Fin Management 44:4-7+ S '42
Relation of residential deposits to uncollectible accounts. H. F. Quad. Am Gas Assn Proc 1941:195-8; Same abr. Edison Elec Inst Bul 9:193-4+ My '41; Same. Am Gas Assn Mo 23:274-5+ Jl-Ag '41
Sales methods collect $3,857,000 from hopeless accounts; Interstate accounts service. il Am Business 12:22-4 Mr '42
Survey of billing and collection practices of cities of 100,000-200,000 population. G. F. Hughes. Am Water Works Assn J 34:1527-32 O '42
These collection letters bring results for Welch. Ptr Ink 197:79-82 N 28 '41
Thirty-six notes replaced by one; Prosperity company, inc., Syracuse; credit for purchasers of pressing machines. G. T. Simpson. Credit & Fin Management 44:13-16 Ap '42
Wholesalers' accounts receivable and collections, January 1942. Credit & Fin Management 44:48 Mr '42 [cont monthly]
Women collectors; Connecticut light & power co. L. A. Mayo. Am Gas Assn Mo 24:413 N '42

See also
Billing
Collection laws
Credit
Credit departments
Salesmen and credit

COLLECTION laws
Account stated. L. E. Schwartz. 255p $7.50 Trial attorney publications, Brooklyn, N.Y. '41
Law of creditors' rights. I. A. Ross. Credit & Fin Management 43:7-9 D '41

COLLECTIVE bargaining
Blanket contract; C.I.O. textile union asks one over-all agreement in New England mills. Business Week p74-6 Mr 21 '42
British employer required to bargain collectively. J. Somerville. Monthly Labor R 53:1165-6 N '41
Civil engineer and the Wagner act; relationship of professional men to collective bargaining must be clarified. H. A. Millis. Civil Eng 12:487-8 S '42
Collective bargaining and accelerated production. C. S. Golden. Ann Am Acad 224:96-103 N '42
Collective bargaining as a basis for labor cooperation. R. J. Watt. Ann Am Acad 224:84-7 N '42
Collective bargaining contracts; techniques of negotiation and administration with topical classification of clauses. 734p $7.50 Bur. of national affairs, Washington, D.C. '41
Collective bargaining in paper and allied products industry. A. W. Frutkin. Monthly Labor R 54:928-43 Ap '42
Collective bargaining in the chemical industry, May 1942. A. Weiss. Monthly Labor R 55:64-85 Jl '42
Collective bargaining survey. Management R 31:4-6 Ja '42
Collective bargaining systems; a study of union-employer responsibilities and problems. F. C. Pierson. 227p bibliog(p212-20) $3.25; pa $2.50 Am. council on public affairs, 2153 Florida av, Washington, D.C. '42
Collective wage determination; problems and principles in bargaining, arbitration, and legislation. Z. C. Dickinson. 640p $5 Ronald press '41
Democracy in collective bargaining; individual rights, now impaired, can be restored without destroying unions. R. B. Hamblett. Barron's 22:13 Ag 31 '42
Employment conditions among civil engineers, especially as related to collective bargaining. H. F. Peckworth. Civil Eng 12:527-8 S '42
Enforcement of union contracts; abstract. D. Ziskind. Management R 31:83-4 Mr '42
Extent of collective bargaining at beginning of 1942. F. Peterson. Monthly Labor R 54:1066-70 My '42
Give and take in bargaining on wages. J. R. Steelman. Advanced Management 7:38-41 Ja-Mr '42
Government of labor relations in Sweden. J. J. Robbins. 367p $3.50 Univ. of North Carolina press, Chapel Hill '42
Hard-won victory; A.F.L. is upheld by NLRB in Curtiss-Wright election. Business Week p74-5 S 5 '42
How collective bargaining works; a survey of experience in leading American industries. 986p $4 Twentieth century fund, 330 W. 42d st, New York '42; Review. Comm & Fin Chr 156:724 Ag 27 '42
How they bargained at Ford. Business Week p92-6 D 6 '41
How to avoid Labor board troubles; arbitrate with absolute fairness. Brick & Clay Rec 100:38+ F '42
Incentive-wage plans and collective bargaining. F. Joiner and V. Kennedy. Monthly Labor R 55:1-14 Jl '42
Industrial relations and the determination of conditions of employment in wartime. I. Bessling. bibliog Int Labour R 46:525-68 N '42
Medical decisions and employee relations. H. W. Anderson. Ind Med 11:275-7 Je '42
Pills in the contract; union's successful demand for daily vitamin dosage. Business Week p52-3 My 16 '42
Rights of individual employee under collective-bargaining agreement; Supreme court of Kansas decision. Monthly Labor R 54:127-8 Ja '42
Telling the boss; report by NLRB examiner on North American Aviation. Business Week p60+ Je 6 '42
Union policies in wartime. S. Barkin. Personnel J 21:54-65 Je '42

COLLECTIVE bargaining—*Continued*

Wage incentives in collective bargaining. Management R 31:252-3 Jl '42

See also

Company unions
Employees—Length of service
Employees' representation in management
National labor relations board
Trade agreements

COLLECTIVISM

Democracy and collectivism; review of Coming showdown, by C. Dreher; and Making of tomorrow, by R. De Roussy de Sales. R. E. Freeman. Mech Eng 64:676-7 S '42

COLLECTORS and collecting

See also

Postage stamps

COLLEGE administration. See Colleges and universities—Administration

COLLEGE and school journalism

Journalism in a nutshell. H. R. Young. 63p pa 35c Case school of applied science, Cleveland '41

Stencil duplicated newspaper. F. S. Knight and D. Knight. 126p pa $2 F. S. Knight, 803 Columbia st, Hood River, Ore. '41

COLLEGE annuals

Canada printer produces university annual by offset process; McGill year book. R. Joiner. il Inland Ptr 108:64-5 N '41

COLLEGE architecture

Buildings to come; Illinois institute of technology. il Arch Forum 76:sup14 F '42

Infirmary; Baldwin house, Vassar college. il plans Arch Rec 90:53 D '41

Technological institute of Northwestern university; structural data, plans, views. D. M. Nelson. Arch Rec 92:37-44 Ag '42

See also

College buildings

COLLEGE buildings

See also

Chemistry buildings
College architecture

Heating and ventilation

Bad humidity conditions almost brought down the roof; improved heating and ventilation with humidity control halts deterioration at Oberlin college. L. S. Ries. il Heating-Piping 14:39-40 Ja '42

Efficiency boosted at University of Idaho central heating plant. H. F. Gauss. il diags plan Power 86:222-5 Ap '42

Power

Building a new power plant; University of Illinois. il Power Pl Eng 46:91 Mr '42

COLLEGE education

Backward look for a forward plan; need for reformulating our educational system. F. C. Hockema. Elec Eng 61:406-14 Ag '42

Educators at Chicago conference discuss premilitary training. Elec Eng 61:219-20 Ap '42

Essentials of liberal education. D. L. Evans. 200p $1.50 Ginn '42

Need for college-trained professional personnel. Monthly Labor R 55:60-3 Jl '42

They went to college; a study of 951 former university students. C. R. Pace. 148p, 52p $2.50 Univ. of Minnesota press, Minneapolis '41

Utilization of potential college ability found in the June, 1940, graduates of Kentucky high schools. H. L. Davis. 98p bibliog(p97-8) pa 50c Bur. of school service, College of education, Univ. of Kentucky, Lexington '42

What constitutes an education? E. McAuliffe. Min & Met 23:325 Je '42

What's the dollar value of a college education? pictograph. Sales Management 49:44 N 15 '41

See also

College graduates
College students
College women

COLLEGE entrance requirements

Did they succeed in college? the follow-up study of the graduates of the thirty schools. D. Chamberlin and others. 291p $2.50 Harper '42

COLLEGE geology teachers, Association of. See Association of college geology teachers

COLLEGE graduates

College men have large place in modern railroading; door is open for qualified graduates. J. H. Cooper. Ry Age 112:412-14 F 21 '42

Pointing the graduates towards success in railroading. J. H. Cooper. J Eng Educ 32: 866-70 Je '42; Same abr. Ry Age 112:412-14 F 21 '42

Postgraduate and his world. K. T. Compton. il Tech R 44:444-6+ Jl '42

They went to college; a study of 951 former university students. C. R. Pace. 148p $2.50 Univ. of Minnesota press, Minneapolis '41

What can colleges do to assist industry in training executives. A. R. Kelso. Advanced Management 7:2-6 Ja-Mr '42

See also

Engineering graduates

COLLEGE hygiene

Proceedings of the twenty-second annual meeting of the American student health association, New York city, Dec. 30-31, 1941. (Bul. 25) 98p Am. student health assn, R. I. Canuteson, sec-treas, Univ. of Kansas, Lawrence '42

COLLEGE libraries

Carnegie study of the libraries of technological colleges. T. R. Barcus. J Eng Educ 32:424-33 Ja '42

College and university library consolidations. M. H. Lowell. 136p pa $1 Oregon state system of higher education, Eugene '42

Development of university centers in the South. A. F. Kuhlman, ed. 128p $1 Peabody press, Nashville, Tenn. '42

See also

Harvard university—Library
New York university—Libraries

Departmental libraries

Functional independence in special libraries. E. M. Grieder. Special Lib 33:73-5+ Mr '42

COLLEGE of the city of New York

City College. I. Rosenthal. il J Eng Educ 32: 494-7 Mr '42

COLLEGE printing

See also

College annuals

COLLEGE professors and instructors

Academic man; a study in the sociology of a profession. L. Wilson. 248p $3 Oxford '42

Salaries

Salaries in colleges and universities, 1939-40. Monthly Labor R 54:497-9 F '42

COLLEGE students

Army enlisted reserve corps; text of official statement of Secretary of war. J Eng Educ 33:95-6 O '42

Did they succeed in college? the follow-up study of the graduates of the thirty schools. D. Chamberlin and others. 291p $2.50 Harper '42

Future supply of professionally trained manpower. C. S. Marsh. Monthly Labor R 55: 247-50 Ag '42

Military personnel and the colleges. C. E. Hixon. J Eng Educ 33:27-32; Discussion. 45-7 S '42

Report by committee on utilization of colleges and universities for the purposes of war. Comm & Fin Chr 156:824 S 3 '42

Students in the Army enlisted reserve; Stimson's statement. Science 96:312 O 2 '42

Employment

Imperial college of science and technology vacation apprenticeship scheme. Chem & Ind 61:51-2 Ja 24 '42

COLLEGE students—Employment—*Continued*

Working your way through college and other means of providing for college expenses. W. J. Greenleaf. U S Office of Educ, Vocational Div Bul 210, Occupational Information and Guidance Ser 4:1-175 bibliog (p167-9); pa 20c Supt. of doc. '41

See also

National youth administration

Federal aid

$5,000,000 federal loan for technical students. Roads & Sts 85:78-9 Ag '42

COLLEGE women

Women after college; a study of the effectiveness of their education. R. G. Foster and P. P. Wilson. 305p $2.75 Columbia univ. press '42

COLLEGE year

Analysis of educational speed-up plans. L. E. Grinter. J Eng Educ 32:518-22 Mr '42

Twelve-month college year: an all-out program. A. Silverman. Science 95:192-3 F 20 '42

COLLEGES and universities

What can colleges do to assist industry in training executives. A. R. Kelso. Advanced Management 7:2-6 Ja-Mr '42

What colleges are doing to assist industry in training executives. R. C. Davis. Advanced Management 7:7-9 Ja-Mr '42

See also

Business schools and colleges
College buildings
College year
Engineering colleges
Medical colleges
University presses

also names of colleges and universities, e.g.

American university, Washington, D.C.
Great Lakes college, Ferndale, Michigan
Harvard university
Hebrew university, Jerusalem
Illinois university
Michigan university
Yale university

Consult Education index for additional material

Administration

Degrees at any time: brain conservation; advocating abolition of grade system and 4 year terms. A. Silverman. Science 95:354-6 Ap 3 '42

Curriculum

American Builder pioneering bears fruit; universities having four-year courses leading to degrees of Bachelor of science in housing construction and marketing. Am Bld 64:56 Jl '42

Factors associated with participation in cooperative programs of curriculum development. J. G. Saylor. 255p bibliog(p240-4) $2.85 Teachers college '41

Symposium on professional training of chemists or chemical engineers. J. C. Warner and others. J Chem Educ 18:560-80 D '41

Enrollment

Effect of the war on college enrollment. Monthly Labor R 55:250-4 Ag '42

Future supply of professionally trained manpower. C. S. Marsh. Monthly Labor R 55:247-50 Ag '42

Finance

Financial problems of educational institutions; Harvard university. A. C. Smith. Bankers M 143:510-11 D '41

Harvard reports on investments. Trusts & Estates 73:549 N '41

Smith college's investments. Barron's 22:18 O 19 '42

Gifts, legacies, etc.

Gifts and bequests to Cornell university for 1941. Science 95:474 My 8 '42

Graduate work

Postgraduate and his world. K. T. Compton. il Tech R 44:444-6+ Jl '42

Personnel service

See also

Engineering colleges—Personnel service

Placement service

Employment services of colleges and universities. L. B. Anderson. Monthly Labor R 54:681-2 Mr '42

Placement service. A. S. Levens. J Eng Educ 32:746-52 My '42

Public relations

Public relations for higher education. S. Harral. 292p bibliog(p269-85) $3 Univ. of Oklahoma press, Norman '42

Research

Directory of commercial testing and college research laboratories. A. E. Rapuzzi, comp. U S Nat Bur Stand Misc Pub M171:1-63; pa 15c Supt. of doc. '42

Importance of research in the war emergency; resolution adopted by the Council on research of the Pennsylvania state college. Science 96:246-7 S 11 '42

Obligation of the universities. C. Epling. Science 94:487 N 21 '41

Research activity and the quality of teaching in medical schools. A. E. Casey. Science 96:110-11 Jl 31 '42

Research at the University of Illinois. Science 96:33-4 Jl 10 '42

Great Britain

Universities in transformation. A. Löwe. 62p 40c Macmillan '41

New York (city)

City College, Columbia, Cooper Union, Manhattan college. I. Rosenthal. il J Eng Educ 32:494-503 Mr '42

Tennessee

Educational institutions of the Memphis section, American chemical society. il Chem & Eng N 20:233-9 F 25 '42

United States

University and the present crisis. A. J. Carlson. Science 95:369-72 Ap 10 '42

Wartime maintenance of scientific production. J. S. Nicholas. Science 96:393-5 O 30 '42

COLLEGES and universities, Municipal

See also

College of the city of New York

COLLINS and Aikman corporation

Another look at your company. Mag of Wall St 70:77 My 2 '42

COLLOIDAL graphite. See Graphite

COLLOIDS

Action of light on cellulose; a method for the measurement of the osmotic pressure of colloidal solutions. R. E. Montonna and L. T. Jilk. bibliog diags J Phys Chem 45:1374-81 D '41

Catalytic decomposition of hydrogen peroxide by basic beryllium iodide hydrosols. B. Cohen. bibliog Am Chem Soc J 64:1340-1 Je '42

Colloidal properties of aqueous dispersions of titanium dioxide. S. W. Martin. bibliog diags Paper Tr J 115:31-8 Jl 23 '42

Colloids in your daily life. E. A. Hauser. diags J Chem Educ 18:590-5 D '41

Concentration of enzymes and other biological colloids by dialysis. G. E. Youngburg. Science 94:498 N 21 '41

Depolarization of the Tyndall-scattered light of bentonite and ferric oxide sols. C. R. Hoover, F. W. Putnam and E. G. Wittenberg. bibliog il diag J Phys Chem 46:81-93 Ja '42

Effect of electrical forces on the stability of colloidal sols. W. G. Eversole and A. L. Hanson. bibliog J Chem Phys 10:460-3 Jl '42

COLLOIDS—*Continued*

Effect of potassium salts upon aluminum oxychloride hydrosol. M. W. Kelly and K. S. Rostler. bibliog J Phys Chem 46:317-25 F '42

Effect of small concentrations of hexametaphosphate on iron oxide surfaces. F. Hazel. bibliog J Phys Chem 46:516-24 Ap '42

Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42

Electrochemical properties of mineral membranes; the estimation of ammonium-ion activities; the measurement of ammonium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. J Phys Chem 46:325-34 F '42

Electrokinetic equations for gels and the absolute magnitude of electrokinetic potentials. J. J. Bikerman. bibliog J Phys Chem 46:724-30 Je '42

Electro-optical properties of colloids. H. Mueller and B. W. Sakmann. bibliog il diag Opt Soc Am J 32:309-17 Je '42

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

Fractionation of colloidal systems; selection of operating conditions for the supercentrifuge. G. Fancher, S. C. Oliphant and C. R. Houssiere, jr. Ind & Eng Chem Anal ed 14:552-4 Jl 15 '42

Frictional phenomena; structural viscosity. A. Gemant. bibliog diags J Ap Phys 13:210-21 Ap '42

Frictional phenomena; viscosity of colloidal solutions; application to synthetic polymers. A. Gemant. bibliog diags J Ap Phys 13:90-6 F '42

Handbook of feedwater treatment; carbonate and sulphate hardness, colloids, oil. diags Power 85:874-5 D '41

Hugo Rudolph Kruyt. H. S. van Klooster. J Chem Educ 19:165 Ap '42

Industrial chemistry of colloidal and amorphous materials. W. K. Lewis, L. Squires and G. Broughton. 540p $5.50 Macmillan '42

Intermediate colloid state in the formation of gold and platinum ions. C. G. Fink. bibliog J Phys Chem 46:76-81 Ja '42

Ionic competition in base-exchange reactions. R. H. Bray. bibliog Am Chem Soc J 64:954-63 Ap '42

Isolation of radioactive yttrium and some of its properties in minute concentrations. J. D. Kurbatov and M. H. Kurbatov. bibliog J Phys Chem 46:441-57 Ap '42

Magneto-optical properties of ferromagnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42

Migration of colloids through the interface between immiscible liquids under the influence of an electric field, and the formation of ultra-colloids. G. E. Gibson and L. Baldwin. J Chem Phys 10:247-8 Ap '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

Plasticity of clays. E. A. Hauser and A. L. Johnson. bibliog Am Cer Soc J 25:223-7 My 1 '42

Processing paper with colloids. H. S. Scherbak. Paper Ind 24:605 S '42

Properties of alginic acid; ammonium alginate as a protective colloid; abstract. Y. K. Novodranov and E. K. Smirnova. Chem & Met Eng 49:204 My '42

Reversible aggregations of colloidal particles; the isothermal and reversible change of absorption in thixotropic iron oxide sols. W. Heller and G. Quimfe. bibliog diag J Phys Chem 46:765-77 Je '42

Scattering of light by an aggregate of small dielectric particles. R. Landshoff. J Phys Chem 46:778-81 Je '42

Sensitization and surface charge of lyophilic colloids. E. A. Hauser and M. R. Cines. bibliog J Phys Chem 46:705-9 Je '42

Simplified electrosmosis apparatus. J. D. Porter. bibliog diags J Chem Educ 19:533-6 N '42

Some colloid-chemical news of the year; studies of emulsions and detergents. J. J. Bikerman. bibliog Chem Age (Lond) 46:26-7 Ja 10 '42

Stability properties of hydrophobic colloidal solutions. S. Levine and G. P. Dube. bibliog J Phys Chem 46:239-80 F '42

Stable hydrogen peroxide aerosol. H. A. Abramson. Science 96:238 S 4 '42

Studies on aging and coprecipitation; aging of lead chromate in the colloidal state; thermal aging. I. M. Kolthoff and F. T. Eggertsen. J Phys Chem 46:458-63 Ap '42

Studies on aging and coprecipitation; mixed-crystal formation of lead molybdate with colloidal and flocculated lead chromate. I. M. Kolthoff and F. T. Eggertsen. bibliog J Phys Chem 46:616-20 Je '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl- decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

Studies on solubilization. R. C. Merrill, jr. and J. W. McBain. bibliog J Phys Chem 46:10-19 Ja '42

Studies on the hydrogel of zirconia; the time of set. C. B. Hurd, W. A. Fallon and R. W. Hobday. bibliog Am Chem Soc J 64:110-14 Ja '42

Text-books on colloidal chemistry. W. Seifriz. Science 96:339-40 O 9 '42

Thirty years of colloid chemistry. W. D. Bancroft. J Phys Chem 46:1-9 Ja '42

Viscosity of certain ferric oxide hydrosols. L. M. Greenstein and A. W. Thomas. bibliog J Chem Phys 10:229-40 Ap '42

See also

Adsorption
Catalysis
Cellulose
Collagen
Dispersion
Electrophoresis
Emulsions
Gelatin
Gelation
Micelles
Proteins
Silica gel
Smoke
Suspensions
Thixotropy

COLOCYNTHS

Colocynth in Anglo-Egyptian Sudan. For Comm W 7:30 Je 20 '42

COLOMBIA

See also

Bonds, Government—Colombia
Coffee trade—Colombia
Electric apparatus industry—Colombia
Gold mines and mining—Colombia
Housing—Colombia
Labor and laboring classes—Colombia
Mines and mineral resources—Colombia
Petroleum industry and trade—Colombia
Petroleum pipe lines—Colombia
Soap industry and trade—Colombia

Economic conditions

News by countries (cont). For Comm W 5:12-13 N 22 '41; 7:12-13 My 16; 8:12-13 Ag 8 '42

War's effect on Colombia's economy. il For Comm W 9:4-8+ O 31 '42

Foreign relations

United States

American society of Colombia another hemisphere asset; address to the Society. S. Braden. For Comm W 6:8-9+ F 14 '42

COLONIAL utilities corporation

Reorganization completed. Comm & Fin Chr 155:1917 My 18 '42

Reorganization plan. Comm & Fin Chr 155:259-60 Ja 17 '42

COLONIES

Dependent areas in the post-war world. A. N. Holcombe. 108p 50c; pa 25c World peace foundation '41

COLONIES—*Continued*

Progress and welfare in southeast Asia; a comparison of colonial policy and practice. J. S. Furnivall. 84p pa 75c Inst. of Pacific relations, New York '41; Review (Social welfare in southeast Asia). Int Labour R 46:433-41 O '42

See also

Geopolitics
Great Britain—Colonies

COLOR

Color and camouflage. G. W. Kadel. il Paint Oil & Chem R 104:13-14+ Mr 12 '42

Color and constitution; absorption of 2-*p*-dimethylaminostyrylquinoline and its salts; the effect on absorption of a benzene ring in the chromophoric chain of dyes. L. G. S. Brooker and R. H. Sprague. bibliog Am Chem Soc J 63:3203-13 N '41

Color and constitution; absorptions of some related vinylene-homologous series. L. G. S. Brooker and others. bibliog Am Chem Soc J 63:3192-203 N '41

Color and constitution; the absorption of phenol blue. L. G. S. Brooker and R. H. Sprague. Am Chem Soc J 63:3214-15 N '41

Color and constitution; the absorption of unsymmetrical cyanines; resonance as a basis for a classification of dyes. L. G. S. Brooker, G. H. Keyes and W. W. Williams. bibliog Am Chem Soc J 64:199-210 F '42

Color harmony and pigments. H. Hiler. 61p bibliog(p53-61) $7.50 Favor, Ruhl & co, Chicago '42

Color harmony manual. E. Arens. il Mod Packaging 16:54-5+ O '42

Color notation. A. H. Munsell. 9th ed rev 74p $2 Munsell color co, Baltimore '41

Color of light on the projection screen. M. R. Null, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:219-28 Mr '42

Color reactions of organic nitrogen compounds with selenious acid-sulfuric acid solution. B. T. Dewey and A. H. Gelman. bibliog Ind & Eng Chem Anal ed 14:361-2 Ap 15 '42

Colour reactions of reducing pyrimidines. E. B. Knott. bibliog Soc Chem Ind J 60:313-14 D '41

Color reactions of sympathomimetic amines with diazonium compounds. K. H. Beyer. Am Chem Soc J 64:1318-22 Je '42

Color selector; light demonstration box to test effect of fluorescent and incandescent light on color of various materials. il Elec West 88:60 My '42

Colors of furniture. P. Moon. Opt Soc Am J 32:293-8 My '42

Fluorescent light's effect on color. O. P. Cleaver. Elec W 116:1918 D 13 '41

Importance of color. W. H. Dooley. Textile Col 64:325-30 Jl '42

Interpretation of spectral distribution data in practical color applications. R. L. Oetting and C. L. Amick. bibliog diags Illum Eng 36:1369-90; Discussion. 1390-6 D '41

Methods of designating color. D. B. Judd. bibliog il diags Am Cer Soc Bul 20:375-80 N '41

New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

Old color mystery may hold solution to color problem; color phenomenon noticed during tests of lubricant, later duplicated in ceramic firing tests. Cer Ind 39:21+ Jl '42

Preparation and properties of some perihydroxyquinone inner complexes. B. P. Geyer and G. M. Smith. Am Chem Soc J 64:1649-51 Jl '42

Recording color of opaque objects. M. E. Stansby and J. A. Dassow. Ind & Eng Chem Anal ed 14:13-15 Ja 15 '42

Systems of color organization; abstract. M. E. Bond and D. Nickerson. Am Dyestuff Rep 31:126-7 Mr 16 '42

Temperature-indicating paints; Thermindex. Engineering 152:416 N 21 '41

Temperature sensitive paints; Thermindex colours. il Automobile Eng 31:458 D '41

See also

Camouflage
Chromophores
Colorimeters and colorimetry
Colorimetric analysis
Dyes and dyeing
Enamel and enameling—Color
Food—Color
Glass—Color
Inter-society color council
Light, Colored
Lubricating oils—Color
Moving pictures, Colored
Paint
Paper—Color
Pigments
Sugar—Color
Television—Color

Psychology

Emotions versus measurement in teaching color; abstract. N. C. Meier. bibliog Am Dyestuff Rep 31:125-6 Mr 16 '42

What color for the office? G. D. Gaw. Am Business 11:38-40 D '41

Standards

New machine tool gray; standard color for machine tools. W. E. Whipp. Am Mach 86:52 F 5 '42

Report of Tappi delegates to the Inter-society color council; with proposed American defense emergency standard for the specification and description of color. J. L. Parsons. bibliog Paper Tr J 114:44-6 Mr 5 '42

Symposium on color standards and measurements. D. B. Judd and others. bibliog il diags Am Cer Soc Bul 20:375-402 N '41

Visual sensitivities to color differences in daylight. D. L. MacAdam. bibliog diags Opt Soc Am J 32:247-74 My '42

War standard for color. Mod Packaging 16:56 O '42

Study and teaching

Emotions versus measurement in teaching color; abstract. N. C. Meier. bibliog Am Dyestuff Rep 31:125-6 Mr 16 '42

Terminology

Central notations for ISCC-NBS color names. D. Nickerson and S. M. Newhall. bibliog Opt Soc Am J 31:587-91 S '41; Same. Am Dyestuff Rep 31:292-6 Je 8 '42

Color nomenclature in qualitative analysis; ISCC-NBS color names. L. P. Biefeld and M. Griffing. bibliog J Chem Educ 19:282-6, 307-12 Je-Jl '42

COLOR blindness

Color blindness and borderline cases. E. Murray. bibliog Science 96:133-5 Ag 7 '42; Discussion. K. Dunlap and R. D. Loken. 96:251-2 S 11 '42

Colour blindness and industry. F. H. G. Pitt. Light & Lighting 35:7 Ja '42

Colour matching and colour blindness. W. Garner. bibliog diags Soc Dyers & Col J 58:65-70; Discussion. 70-1 Ap '42

Vitamin A for color-blindness. K. Dunlap and R. D. Loken. Science 95:554 My 29 '42

COLOR charts

Color standards for opaque ceramic materials. C. Robertson. Am Cer Soc Bul 20:385-6 N '41

COLOR fastness. See Dyes, Fastness of

COLOR in advertising

Pepsodent back in newspapers; new comic color technique. il Ptr Ink 198:24 Mr 20 '42

Uncovering color faults in layouts for advertising display. A. L. Liversedge. il Inland Ptr 109:41-3 Ag '42

COLOR in architecture

See also

House painting

COLOR in factory management

Colored V's used to match machines and scrap metals in Wright salvage system. il Steel 110:59 My 4 '42

COLOR in industry

Bright paint on machines increases production. il Marine Eng 47:266 O '42

Color-conditioning in modern industry. F. Birren. il Dun's R 50:13-15+ Jl '42; Abstract. Management R 31:261-2 Ag '42

COLOR in industry—*Continued*
Color for efficiency. M. Denning and A. A. Brainerd. il Product Eng 13:19-22 Ja '42
Color for production, an analysis of the part of paint and other pigments in providing a better seeing environment in industrial buildings, by Faber Birren. il Arch Forum 77:85-8 Jl '42
Empirical use of color in industry. F. Birren. Opt Soc Am J 32:400-1 Jl '42
Improved vision in machine tool operations by color contrast. A. A. Brainerd and M. Denning. il diags Illum Eng 36:1397-1409 D '41; Excerpts. Elec W 117:324+ Ja 24 '42; Discussion. Illum Eng 36:1409-13 D '41
Make-up for better seeing; study of colors for machinery. A. P. Peck. il Sci Am 165: 318-21 D '41
New machine tool gray; standard color for machine tools. W. E. Whipp. Am Mach 86:52 F 5 '42
Salvaging waste light for victory. A. A. Brainerd and R. A. Massey. il diag Edison Elec Inst Bul 10:341-3+ S '42; Abstract. Iron Age 150:53 O 15 '42
Scientific painting for more light and safety. Eng N 129:sup180+ O 22 '42
What color for the office? G. D. Gaw. Am Business 11:38-40 D '41
See also
Machinery—Painting
Paper—Color

COLOR in plastic materials
Availability of coloring materials. W. H. Peacock. Mod Plastics 19:56-7 Mr '42
Dressing table jewels; injection molding of colorful brush backs. il Mod Plastics 19: 38-9+ F '42
Printing and coloring acetate. il Mod Plastics 19:54 My '42

COLOR in the ceramic industries
Color standards for opaque ceramic materials. C. Robertson. Am Cer Soc Bul 20:385-6 N '41
Effect of furnace atmosphere on colors derived from chromic oxide. W. L. Peskin. bibliog il diag Am Cer Soc Bul 20:402-11 N '41
Spectrophotometry of ceramic materials. F. H. Emery. bibliog Am Cer Soc Bul 20:381-4 N '41

COLOR in the textile industries
Prediction and control of colored fiber blends by optical means. Am Dyestuff Rep 30:698-700 D 8 '41
See also
Dyes and dyeing
Textile printing

COLOR lighting. See Light, Colored

COLOR matching
Colour matching and colour blindness. W. Garner. bibliog diags Soc Dyers & Col J 58:65-70; Discussion. 70-1 Ap '42
Spectrophotometry of ceramic materials. F. H. Emery. bibliog Am Cer Soc Bul 20: 381-4 N '41
Tentative specification for standard illuminants in textile color matching. Am Dyestuff Rep 31:267-8 My 25 '42; Same. Rayon 23:388 Jl '42
Tentative specification for standard illuminants in textile color matching, rev. June 26, 1942. Am Dyestuff Rep 31:363-4 Jl 20 '42
Visual sensitivities to color differences in daylight. D. L. MacAdam. bibliog diags Opt Soc Am J 32:247-74 My '42

COLOR measurement
Attributive limens in selected regions of the Munsell color solid. B. R. Bellamy and S. M. Newhall. bibliog il Opt Soc Am J 32: 465-73 Ag '42
Color group discusses the meaning and measurement of whiteness; abstracts of papers by J. G. Holmes, V. G. W. Harrison and C. G. Heys-Hallett. Light & Lighting 34:152 O '41
Color of paint; abstract. A. H. Stuart. Paint Oil & Chem R 104:33 F 12 '42
Colour vision and colour measurement; abstract. D. Tilleard. Light & Lighting 35: 81 Je '42
Colorimetry of pulp and paper with special reference to brightness and whiteness. D. B. Judd. Pulp & Pa of Can (Convention no) 43:94-100 bibliog(74 titles, p99-100) [F] '42
Effect of furnace atmosphere on colors derived from chromic oxide. W. L. Peskin. bibliog il diag Am Cer Soc Bul 20:402-11 N '41
Measurement and designation of small color differences. I. A. Balinkin. bibliog il Am Cer Soc Bul 20:392-402 N '41
Measurement of color and turbidity in solutions of white granulated sugars. E. E. Morse and R. A. McGinnis. bibliog Ind & Eng Chem Anal ed 14:212-17 Mr 15 '42
Measurement of the fading rate of paints. A. J. Eickhoff and R. S. Hunter. bibliog diags J Research Nat Bur Stand 28:773-93 Je '42; Same. Paint Oil & Chem R 104:9-11, 41 Je 18; 6-8 Jl 2 '42
Photoelectric photometer for rapid grading of naval stores products. R. H. Osborn. il diag Ind & Eng Chem Anal ed 14:572-5 Jl 15 '42
Projective transformations of color-mixture diagrams. D. L. MacAdam. bibliog Opt Soc Am J 32:2-6 Ja '42
Readily visualized system of measuring the color of surfaces. R. M. Robertson and L. H. Milligan. il Am Cer Soc Bul 20:387-91 N '41
Recording color of opaque objects. M. E. Stansby and J. A. Dassow. Ind & Eng Chem Anal ed 14:13-15 Ja 15 '42
X-Z planes in the 1931 I.C.I. system of colorimetry. E. Q. Adams. bibliog Opt Soc Am J 32:168-73 Mr '42
See also
Color matching
Colorimeters and colorimetry
Colorimetric analysis

COLOR of food. See Food—Color

COLOR of plants
Autumn colors. F. Thone. Science 96:sup8+ O 9 '42
See also
Anthocyanins
Carotenoids
Chlorophyl

COLOR photography
Balance in color photography. L. M. Condax. Photo Tech 3:48-9 D '41
Beginner tries color. V. McGarrett. Am Phot 36:40-1 Ja '42
Color copying with color film. H. L. Woodward, jr. Am Phot 36:36-7 S '42
Color correction of lenses. M. I. Schwalbe. Am Phot 36:12-13 N '42
Color photography. J. S. Friedman. Published in monthly numbers of American photography
Color photography; Gasparcolor. J. S. Friedman. Am Phot 36:30-3+ Mr '42
Color photography; silver-dye bleach processes. J. S. Friedman. Am Phot 35:855-60; 36:38-40+ D '41, F '42
Color separation technique. A. E. Wolff. Photo Tech 3:47-8 D '41
Color with average equipment. A. B. Walker, jr. il Am Phot 36:22-3 Jl '42
Direct processes for making photographic prints in color. C. E. K. Mees. Franklin Inst J 233:41-50 Ja '42; Same. Am Phot 36:8-10 Mr '42
Exploring the new Kodacolor. V. McGarrett. Am Phot 36:45-7+ Jl '42
Exposure and quality control on wash-off relief from kodachrome transparencies. F. A. Smyth. il Am Phot 36:12-13 Je '42
Kodachrome and kodacolor from all angles. F. Bond. 232p $6.50 Camera craft pub. co, 425 Bush st, San Francisco '42
Kodachrome slides of advertising layouts. R. L. Pepperburg. il diag Am Phot 36:33 S '42
Kodacolor. J. S. Friedman. diags Am Phot 36:46-8+ Ap; 40-3 Je '42
Kodacolor film; abstract. C. E. K. Mees. Science 95:sup10 Ja 2 '42

COLOR photography—*Continued*

Kodacolor prints. J. Deschin. Sci Am 166:101-2 F '42

Learn imbibition printing the easy way. A. B. Walker, jr. Am Phot 36:20-2 Ja '42

New color film; designed by Eastman for box and other types of cameras. Business Week p52-3 D 27 '41

Quantity color printing. H. C. Colton. il diags Photo Tech 3:20-3 N '41

Revolution in portraiture by direct color. J. Bicknell. Am Phot 36:17 Ja '42

Separation negatives from 35mm kodachrome. J. E. Wilson. il diags Am Phot 36:14-17 O '42

Small-town photographer makes carbro pay. R. C. Gesheider. il Photo Tech 3:46-7 N '41

Transparent washoff relief method. H. N. Gosner. Photo Tech 3:44-5 N '41

You take a portrait in natural color. W. S. Kals. il Am Phot 36:8-11 Ag '42

COLOR printing

Color variation on patent-coated news-back cardboard. J. Stark. Inland Ptr 109:65-6 Ap '42

Demand for color, bleed, and speed requires new equipment; McCall printing plant. C. C. Westland. il diags Inland Ptr 108:40-4 N '41

Electrical developments of 1941; printing; photoelectric color-register equipment. G. Bartlett. Gen Elec R 45:30-1 Ja '42

Experimental study of beater practice in the manufacture of offset papers. C. G. Weber and others. bibliog J Research Nat Bur Stand 28:241-64 Mr '42

How to maintain positioning for successive operations in multicolor printing. W. L. Wright. il diags Gen Elec R 44:629-31 N '41; Abstract. Electronics 15:72 F '42

New contact screen method revolutionizes making of kodachrome process plates. J. T. Wrigley. il Inland Ptr 110:38-40 O '42

Regensteiner career an inspiration to all in graphic arts; pioneered color printing in this country. A. G. Fegert. il Inland Ptr 108:34-8 F '42

Three-color dry offset. J. Stark. Inland Ptr 108:72 N '41

Uncovering color faults in layouts for advertising display. A. L. Liversedge. il Inland Ptr 109:41-3 Ag '42

See also
Textile printing

COLOR prints

Direct processes for making photographic prints in color. C. E. K. Mees. Franklin Inst J 233:41-50 Ja '42; Same. Am Phot 36:8-10 Mr '42

Linoleum block printing with color. H. Frankenfield. 2d ed 47p pa 50c C. Howard Hunt pen co, Camden, N.J. '41

New color film; designed by Eastman for box and other types of cameras. Business Week p52-3 D 27 '41

COLOR sense

How many tones? determining gradation of gray seen in prints by persons with normal sight. E. Leighten. il Photo Tech 3:37-9 D '41

Nela test of color vision. R. D. Loken. 37p bibliog(p35-7) Williams & Wilkins '42

Visual sensitivities to color differences in daylight. D. L. MacAdam. bibliog diags Opt Soc Am J 32:247-74 My '42

COLOR television. See Television—Color

COLOR temperature

Color of light on the projection screen. M. R. Null, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:219-28 Mr '42

Color temperature meter holder. L. P. Flory. il Photo Tech 3:47 N '41

Metal melting temperatures; melting points keyed to color scale; data sheet. Power 86:521 Jl '42

COLOUR users' association

Annual meeting address by N. G. McCulloch. Soc Dyers & Col J 57:339-40 N '41

COLORADO

See also
Geology—Colorado
Mines and mineral resources—Colorado

COLORADO & southern railway

Bondholders indicate adoption of plan. Comm & Fin Chr 156:1235 O 5 '42

Colorado & southern and the McLaughlin act. O. Lasdon. Comm & Fin Chr 156:1699+ N 12 '42

ICC permits extension of issues held by the RFC. Comm & Fin Chr 156:864 S 7 '42

Submits new plan to the Interstate commerce commission. Comm & Fin Chr 156:77 Jl 6 '42

To pay interest on general mortgage bonds; listing of certificates of deposit. Comm & Fin Chr 156:1466-7 O 26 '42

COLORADO-BIG THOMPSON project

Processing plant for rock-earth dam; Green Mountain dam in Colorado. il diags Eng N 128:188-91 Ja 29 '42

Water power for war; west portal of 13-mile Continental Divide tunnel, key link in Colorado-Big Thompson project. T. L. Wells. il diag map Explosives Eng 20:204-11 Jl '42

COLORADO fuel and iron company

C.I.O. vs. C.F.I.; steelworkers' vote spells the end of Colorado Fuel & Iron employee organization. Business Week p92-3 Ag 15 '42

COLORADO river

Boulder Dam project

1,327,000 hp at Boulder dam. plan Power 86:486 Jl '42

War speeds generator installation in power plant at Boulder dam. diag Eng N 129:182 Jl 30 '42

Power utilization

Boulder transmission line utilizes poured-in-place foundations. K. A. Reeder. il diags map Civil Eng 11:722-5 D '41

Reclamation bureau starts Davis dam on the Colorado river. il plan Eng N 128:960 Je 11 '42

COLORADO River aqueduct

Colorado aqueduct water offered outside districts. Eng N 129:78 Jl 16 '42

COLORIMETERS and colorimetry

Determination of certain quercetinlike substances using a Klett-Summerson photoelectric colorimeter. C. W. Wilson, L. S. Weatherby and W. Z. Bock. Ind & Eng Chem Anal ed 14:425-6 My 15 '42

Determination of citral by means of the photoelectric colorimeter. J. Bailey and C. K. Beebe. bibliog Ind & Eng Chem Anal ed 13:834-6 N 15 '41

Fundamental criterion of uniform representability of equiluminous colors on a geometrical surface. L. Silberstein. Opt Soc Am J 32:552-6 S '42

Photoelectric color; description and mensuration of the color of petroleum products. I. M. Diller, R. J. De Gray and J. W. Wilson, jr. bibliog Ind & Eng Chem Anal ed 14:607-14 Ag 15 '42

Photoelectric color test proposed for lubricating and refined oils. Nat Pet N 34 pt 2:R369-70, R372-3 O 28 '42

Photoelectric colorimeter for rapid reactions. B. Chance. il diags R Sci Instr 13:158-61 Ap '42

Photoelectric tristimulus colorimetry with three filters. R. S. Hunter. Opt Soc Am J 32:509-38 bibliog(51 titles, p536-8) S '42; Same. U S Nat Bur Stand Circ C429:1-46; pa 10c Supt. of doc. '42

Portable field colorimeter for industrial hygiene use. T. R. Thomas and L. Silverman. bibliog il diags Ind Med 11:188-90 Ap '42

Prediction and control of colored fiber blends by optical means. Am Dyestuff Rep 30:698-700 D 8 '41

COLORIMETERS and colorimetry—*Continued*

Recording spectrophotometer and spectropolarimeter. W. R. Brode and C. H. Jones. il diags Opt Soc Am J 31:743-9 D '41

See also

Color measurement

Colorimetric analysis

Reflectometers

COLORIMETRIC analysis

Adaptation of an indirect method for potassium to the photoelectric colorimeter. C. P. Sideris. bibliog Ind & Eng Chem Anal ed 14:821-2 O 15 '42

Analytical experiments in spectrophotometry. M. G. Mellon. bibliog J Chem Educ 19: 415-18 S '42

Carbohydrate content of collagen. J. Beek, jr. J Research Nat Bur Stand 27:507-17 D '41

Color reaction for dehydroascorbic acid useful in the determination of vitamin C. J. H. Roe and C. A. Kuether. Science 95:77 Ja 16 '42

Colorimetric detection and determination of palladium with compounds containing the *p*-nitrosophenylamino group. L. G. Overholser and J. H. Yoe. Am Chem Soc J 63: 3224-9 N '41

Colorimetric determination of diethylstilbestrol. M. Tubis and A. Bloom. bibliog Ind & Eng Chem Anal ed 14:309 Ap 15 '42

Colorimetric determination of low concentrations of sodium nitrate in sodium nitrite. W. Seaman and others. bibliog Ind & Eng Chem Anal ed 14:420-2 My 15 '42

Colorimetric determination of nickel with ammonia; a spectrophotometric study. J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:289-92 Ap 15 '42

Colorimetric determination of phenothiazine. H. L. Cupples. Ind & Eng Chem Anal ed 14:53 Ja 15 '42

Colorimetric determination of phenothiazine with palladous chloride. L. G. Overholser and J. H. Yoe. Ind & Eng Chem Anal ed 14:646-7 Ag 15 '42

Colorimetric determination of phosphorus in biological materials. R. A. Koenig and C. R. Johnson. Ind & Eng Chem Anal ed 14:155-6 F 15 '42

Colorimetric determination of phosphorus in iron ore. E. J. Center and H. H. Willard. Ind & Eng Chem Anal ed 14:287-8 Ap 15 '42

Colorimetric determination of phosphorus in soils; provision for eliminating the interference of arsenic. M. S. Sherman. bibliog Ind & Eng Chem Anal ed 14:182-5 F 15 '42

Colorimetric determination of readily soluble phosphate in soils. E. G. Williams and A. B. Stewart. Soc Chem Ind J 60:291-7 N '41

Colorimetric determination of silver with 2-thio-5-keto-4-carbethoxy-1, 3-dihydropyrimidine. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:148-9 F 15 '42

Colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in the presence of metaphosphate and pyrophosphate. H. E. Wirth. Ind & Eng Chem Anal ed 14:722-5 S 15 '42

Colorimetric method for phosphates; modification of A.O.A.C. molybdenum blue method. L. S. Stoloff. Ind & Eng Chem Anal ed 14:636-7 Ag 15 '42

Colorimetric microdetermination of arsenic. M. B. Jacobs and J. Nagler. bibliog diag Ind & Eng Chem Anal ed 14:442-4 My 15 '42

Colorimetric microdetermination of arsenic after evolution as arsine. E. B. Sandell. diag Ind & Eng Chem Anal ed 14:82-3 Ja 15 '42

Colorimetric microdetermination of iron. C. P. Sideris. Ind & Eng Chem Anal ed 14: 756-8 S 15 '42

Colorimetric test for vitamin K. F. Irreverre and M. X. Sullivan. bibliog Science 94:497-8 N 21 '41

Colorimetry in metallurgical analysis. R. W. Silverthorn and J. A. Curtis. il Metals & Alloys 15:245-8 F '42

Convenient colorimetric test for phosphates. G. A. Johns. il Power 86:112 F '42

Detection and quantitative determination of 4-amino-2-methyl-1-naphthol; a synthetic vitamin K. A. R. Menotti. Ind & Eng Chem Anal ed 14:601-2 Jl 15 '42

Determination of certain quercetinlike substances using a Klett-Summerson photoelectric colorimeter. C. W. Wilson, L. S. Weatherby and W. Z. Bock. Ind & Eng Chem Anal ed 14:425-6 My 15 '42

Determination of choline; a photometric modification of Beattie's method. M. H. Thornton and F. K. Broome. bibliog Ind & Eng Chem Anal ed 14:39-41 Ja 15 '42

Determination of citral by means of the photoelectric colorimeter. J. Bailey and C. K. Beebe. bibliog Ind & Eng Chem Anal ed 13:834-6 N 15 '41

Determination of combined nitrogen in steel; a rapid method. H. F. Beeghly. bibliog il diag Ind & Eng Chem Anal ed 14:137-40 F 15 '42

Determination of copper in textile materials treated to prevent mildew. C. L. Hoffpauir and R. T. O'Connor. bibliog Am Dyestuff Rep 31:395-8 Ag 17 '42

Determination of divalent iron. G. Cronheim and W. Wink. Ind & Eng Chem Anal ed 14:447-8 My 15 '42

Determination of germanium in silicate rocks. A. G. Hybbinette and E. B. Sandell. Ind & Eng Chem Anal ed 14:715-16 S 15 '42

Determination of lead in sugars and sugar products; an adaptation of the diphenylthiocarbazone reaction. T. D. Gray. bibliog il Ind & Eng Chem Anal ed 14:110-14 F 15 '42

Determination of nitrites; discussion of the Shinn method as applied to examination of water. N. F. Kershaw and N. S. Chamberlin. bibliog Ind & Eng Chem Anal ed 14: 312-13 Ap 15 '42

Determination of tannin substances in boiler waters. A. A. Berk and W. C. Schroeder. bibliog Ind & Eng Chem Anal ed 14:456-9 Je 15 '42

Electrophotometric microdetermination of phosphorus in lipide extracts. W. M. Sperry. bibliog Ind & Eng Chem Anal ed 14:88-90 Ja 15 '42

Estimation of $COOH$ groups in commercial starches modified by oxidation; silver method; copper method. L. H. Elizer. Ind & Eng Chem Anal ed 14:635-6 Ag 15 '42

Estimation of small amounts of antimony with rhodamine B. W. G. Fredrick. Ind & Eng Chem Anal ed 13:922-4 D 15 '41

Extraction of metals from aqueous solutions with dithizone lead. L. P. Biefeld and T. M. Patrick. bibliog Ind & Eng Chem Anal ed 14:275-8 Mr 15 '42

Fluorescent light used in molybdenum assay. Eng & Min J 143:65 S '42

pH control in waterproofing; simple colorimetric methods. G. S. Ranshaw. Textile Col 64:429-30 S '42

Improved photometric method for ascorbic acid. C. Carruthers. bibliog Ind & Eng Chem Anal ed 14:826-8 O 15 '42

Improvements in the colorimetric microdetermination of phosphorus. C. P. Sideris. bibliog Ind & Eng Chem Anal ed 14:762-4 S 15 '42

Komarowsky color reaction for aliphatic alcohols; limitations and sensitivity. H. W. Coles and W. E. Tournay. bibliog il Ind & Eng Chem Anal ed 14:20-2 Ja 15 '42

Methods of determining fluorides; committee report. bibliog diags Am Water Works Assn J 33:1965-2017 N '41; Discussion. E. Elvove; R. F. Goudey. 33:2210-14 D '41

Microestimation of bromide as pentabromorosaniline. W. J. Turner. bibliog Ind & Eng Chem Anal ed 14:599-600 Jl 15 '42

Modification of the fluoride determination. R. D. Scott. Am Water Works Assn J 33:2018-20 N '41; Addendum. 34:522 Ap '42

Molybdenum blue reaction; a spectrophotometric study. J. T. Woods and M. G. Mellon. bibliog(76 references) Ind & Eng Chem Anal ed 13:760-4 N 15 '41

New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

COLORIMETRIC analysis—*Continued*

New colorimetric method for determining small quantities of nicotinic acid. R. P. Daroga. bibliog Soc Chem Ind J 60:263-6 O '41

New colorimetric method for the determination of TNT (2,4,6,trinitrotoluene) in air. S. S. Pinto and J. P. Fahy. bibliog J Ind Hygiene 24:24-6 F '42

Orthonitrosophenol as a new reagent in colorimetric analysis; determination of cobalt. G. Cronheim. bibliog Ind & Eng Chem Anal ed 14:445-7 My 15 '42

Photometric determination of acetone-insoluble material in soybean oil; relation of acetone-insoluble material to break. C. A. Murray and E. B. Oberg. Ind & Eng Chem Anal ed 14:785-7 O 15 '42

Photometric determination of copper and iron in distilled liquors. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:364-6 Ap 15 '42

Photometric determination of potassium. I. W. Wander. bibliog Ind & Eng Chem Anal ed 14:471-2 Je 15 '42

Preparation of a solution of *o*-phthalaldehyde for use as a glycine reagent. W. M. Sandstrom and H. A. Lillevik. bibliog Ind & Eng Chem Anal ed 13:781 N 15 '41

Quantitative determination of 2-methyl-1,4-naphthoquinone. A. R. Menotti. il Ind & Eng Chem Anal ed 14:418-20 My 15 '42

Rapid photometric determination of ascorbic acid in plant materials. S. A. Morell. bibliog Ind & Eng Chem Anal ed 13:793-4 N 15 '41

Recovery of pyridine bases from coke oven gas and methods for determining them. H. J. Meredith. Am Gas Assn Proc 1941:660-3

Routine colorimetric determination of titanium in chromium steels; separation of titanium and chromium by perchloric acid. L. Silverman. Ind & Eng Chem Anal ed 14:791-2 O 15 '42

Shortcuts for determining sulphur and molybdenum in alloy steels. E. R. Vance. il Steel 111:56+ Ag 31 '42

Spectrophotometric determination of phosphorus. T. D. Fontaine. Ind & Eng Chem Anal ed 14:77-8 Ja 15 '42

Stability of the permanganate-periodate color system. J. P. Mehlig. Ind & Eng Chem Anal ed 13:819 N 15 '41

Studies on the measurement of water vapor in gases. F. C. Todd and A. W. Gauger. il diags Am Soc T M Proc 41:1134-51 '41

See also
Indicators and test papers

COLORING materials

Coloring agents for rubber. Oil Paint & Drug Rep 142:62 Ag 31 '42

COLORING matter

Constitution of natural tannins; coloring matters derived from anthracene-9-aldehyde. A. Russell and W. B. Happoldt, jr. Am Chem Soc J 64:1101-3 My '42

See also
Dyes and dyeing
Pigments

COLORING matter in food

Colours in foods; discussion. Chem & Ind 61:195-6 Ap 25 '42

See also
Food—Color

COLORS

Analysis

Rapid spectrographic determination of minute amounts of arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

See also
Black
Blue
Brown
Color
Gray
Green
Khaki
Pigments
Purple
Red
Yellow

COLUMBATES

See also
Potassium oxyfluocolumbate

COLUMBIA, Missouri

Sewerage

Study of infiltration in privately laid sewer. D. Welch. il Pub Works 73:19+ Ag '42

COLUMBIA broadcasting system

Annual report. Comm & Fin Chr 155:1597 Ap 20 '42

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags plan maps Inst Radio Eng Proc 30:118-29 Mr '42

CBS Latin network. Business Week p46 Je 6 '42

CBS radio nets; broadcasters have organized their networks to meet any emergency. D. Coulter. il Radio N 27:31+ F '42

Gallery; with a purr; Paul Kesten, taken upstairs at CBS. V. M. Ratner. Adv & Sell 35:28+ Ag '42

COLUMBIA gas and electric corporation

Columbia Gas preferred stocks depressed; company's position would brighten if SEC approves refunding plan. O. Ely. Barron's 21:7 D 29 '41

Decision is upheld in pipe-line case; to end anti-trust suit. Comm & Fin Chr 156:77 Jl 6 '42

SEC approves plan for sale of company's holdings in Panhandle eastern pipe line co. Comm & Fin Chr 156:1324 O 12 '42

SEC approves steps on corporate simplification plan. Comm & Fin Chr 155:499-501 Ja 31 '42

To purchase debentures. Comm & Fin Chr 156:601 Ag 17 '42

COLUMBIA oil and gasoline corporation

Annual report. Comm & Fin Chr 155:1505-6 Ap 13 '42

Details of plan for liquidation. Comm & Fin Chr 156:1467 O 26 '42

Plan opposed. Comm & Fin Chr 156:864 S 7 '42

Sale of Panhandle eastern pipe line co. holdings approved by SEC; to be liquidated. Comm & Fin Chr 156:1324 O 12 '42

SEC group favors liquidation plan; sale of Panhandle stock to Phillips petroleum included. Comm & Fin Chr 156:778 Ag 31 '42

To sell holdings of Panhandle Eastern common stock to Phillips Petroleum. Comm & Fin Chr 156:250 Jl 20 '42

COLUMBIA river

Bonneville dam

Bonneville spillway gates; abstract. T. M. Ober. Power 85:977 Mid-D '41

Grand Coulee dam

Falsework for arches set on drum gates; highway bridge across Grand Coulee Dam spillway. il diag Eng N 128:552-3 Ap 9 '42

Grand Coulee firms Columbia River hydro. I. A. Winter and S. M. Denton. il diags Elec W 117:988-90 Mr 21 '42

Grand Coulee; its story in pictures and diagrams. Elec West 87:29-44 N '41

Grand Coulee pumps; abstract. R. V. Terry and F. E. Jaski. Power 85:976 Mid-D '41

Power utilization

Bonneville stepup. Business Week p29-30 Mr 21 '42

Bonneville transmission system; major substations; tabulation. Elec West 88:58-9 F '42

Clearing the Grand Coulee reservoir. il Power Pl Eng 46:54-6 F '42; Same cond. Pub Works 73:28, 30 Ap '42

Fight for the control of public power; controversy revolving around control and management of Bonneville and Grand Coulee projects. A. Barnes. Pub Util 29:750-3 Je 4 '42

Grand Coulee and Bonneville power in the national war effort. V. M. Murray. J Land & Pub Util Econ 18:134-9 My '42

Grand Coulee linked to Bonneville by 230 kv. S. E. Schultz. il diag Elec W 117:1168-70 Ap 4 '42

COLUMBIA river—Power utilization—*Cont.*
Master craftsmen erect Grand Coulee. il Power 86:36 Ja '42
Strange marriage; transmission deal with two utility companies. il Business Week p32 My 2 '42
Substations by the dozen built by Bonneville. R. F. Stevens. il Elec W 116:1568-70+ N 15 '41

COLUMBIA university

Zoology department

Fiftieth anniversary of the Department of zoology of Columbia university. Science 96: 354-5 O 16 '42

COLUMBIAN carbon company
Consolidated income statement, 1938-1941. Comm & Fin Chr 155:1506 Ap 13 '42
Dividend earned. H. Lawrence. Barron's 22: 20 Ap 13 '42

COLUMBIUM
Columbium a decreaser of temper brittleness. S. T. Kishkin. Iron Age 150:67 O 1 '42
Influence of columbium or titanium additions to 5 Cr Mo steel. C. L. Clark. Oil & Gas J 40:39+ Ap 2; 72 Ap 23 '42
Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

COLUMBIUM compounds
Formation of complex fluorides in anhydrous liquid hydrogen fluoride; sodium fluocolumbates. A. W. Laubengayer and C. G. Polzer. bibliog Am Chem Soc J 63:3264-6 D '41

COLUMBUS, Christopher, 1446?-1506
Columbus; victory through one great compelling idea. W. LaVarre. For Comm W 9:3, 33 O 10 '42
Fictionalized portrait. Fortune 25:96 Ap '42

COLUMBUS, Indiana

Architecture

Tabernacle Church of Christ; with views, plans, construction outline; Eliel and Eero Saarinen, architects. Arch Forum 77:35-44 O '42

COLUMBUS, Ohio

Rapid transit

How mass transportation is conducted in Columbus. M. A. Jarrow. il plan Mass Transportation 38:172-9+ Jl '42

COLUMN footings
Effect of wind on hangar footings by moment distribution. S. U. Benscoter. diags Civil Eng 12:457-8 Ag '42

COLUMNS
Buckling of a column with non-linear lateral supports. H. S. Tsien. bibliog J Aeronautical Sci 9:119-32 F '42
Eccentricity in columns. K. G. Merriam. J Aeronautical Sci 9:135-7 F '42
Numerical procedure for computing deflections, moments, and buckling loads. N. M. Newmark. bibliog diags Am Soc C E Proc 68:691-718; Discussion. B. Johnston. 783-7 My '42; reprinted without discussion Ill U Eng Exp Sta Reprint Ser 23 pa 15c
Relationship between bending moments in columns and beams. A. G. Strandhagen. Civil Eng 12:625-6 N '42
Safe columns from standard pipes. W. F. Schaphorst. Water Works & Sewerage 89: 450 O '42
Suggestion for columns of varying section. C. O. Harris. J Aeronautical Sci 9:97-9 Ja '42
See also
Architecture
Strains and stresses
Strength of materials

COLUMNS, Concrete
Comparison of reinforced concrete tied column formulas. C. A. Willson. Am Concrete Inst J 13:181-3 N '41
Design diagrams for square concrete columns eccentrically loaded in two directions. P. Andersen. Am Concrete Inst J 13:149-63 N '41
Design of eccentrically loaded concrete columns. J. C. Spotts. diags Civil Eng 12: 275-6 My '42
Fabricating and erecting column forms. C. Macklin. diags Am Concrete Inst J 13:273-4 Ja '42
Overpass with minimum obstruction; reinforced-concrete supports for an overpass at Sacramento, Calif. il diags Eng N 129: 348-9 S 10 '42
Studies of steel economy in concrete slabs and columns. A. J. Boase. Eng N 128: 866-7 My 21 '42

COLUMNS, Steel
Cylinder columns carry shipyard cranes. il diags Eng N 128:324-6 F 26 '42
Design of structural members; first progress report of committee of structural division. Am Soc C E Proc 68:569-72 Ap '42
Office designed to save critical materials; wood frame with interior columns of steel filled with concrete. il Eng N 129:636-7 N 5 '42
Perforated cover plates for steel columns; compressive properties of plates having ovaloid perforations and a width-to-thickness ratio of 40. A. H. Stang and M. Greenspan. pl diags J Research Nat Bur Stand 28:687-712 Je '42
Perforated cover plates for steel columns; compressive properties of plates having ovaloid perforations and a width-to-thickness ratio of 68. A. H. Stang and M. Greenspan. diags J Research Nat Bur Stand 29:279-302, pl 1-2 O '42
Perforated cover plates for steel columns; program and test methods. A. H. Stang and M. Greenspan. bibliog diags pls J Research Nat Bur Stand 28:669-86 Je '42

COLUMNS, Wooden
Construction glue for wooden columns. il Am Bld 64:92-3 Mr '42

COMBED yarn spinners association, Southern. See Southern combed yarn spinners association

COMBUSTION
Automatic combustion control of traveling grate stokers. W. H. Pugsley. Blast F & Steel Pl 30:358+ Mr '42
Coal analyses and their relation to combustion characteristics. J. L. G. Weysser. In Ill U Eng Exp Sta Circ 43:72-82 '42
Combustion calculations simplified for liquid and gaseous hydrocarbon fuel. H. Cooney. Power Pl Eng 46:71 Ja '42
Combustion efficiencies as related to performance of domestic heating plants. A. P. Kratz, S. Konzo and D. W. Thomson. diags Ill U Eng Exp Sta Circ 44:1-30 '42 (pa 40c)
Combustion of common gases; tabulation. Metal Prog 42:652 O '42
Combustion testing; advantages and means. W. H. Pugsley. diag Dom Eng 158:63-4+ D '41
Diesel engine combustion; some factors influencing utilisation of air charge. C. B. Dicksee. diags Automobile Eng 31:420-2 N '41
Exhaust gas, dew points and engine lubrication. B. Maddock. Power Pl Eng 46:64-6 F '42
Fluid flames; study of the relation of combustion to flame shape. Tech R 44:470 Jl '42
New principles in heating Koppers-Becker coke ovens. W. C. Rueckel. diags Blast F & Steel Pl 30:331-8, 431-6 Mr-Ap '42
New theory of combustion in Diesel engines. M. G. Fiedler. il diags Franklin Inst J 233: 17-39, 143-59; Discussion. 159-71 Ja-F '42
Trends in combustion control. M. J. Boho. il diags Paper Tr J 114:38-42 Ap 30 '42
See also
Boilers—Control
Boilers—Firing
Flame propagation
Fuel
Gas and oil engines—Combustion research
Gas burners
Ignition
Inflammable mixtures
Kilns—Firing
Oxidation
Smoke prevention

COMBUSTION, Heat of

Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42

Heat of combustion of acetone. C. B. Miles and H. Hunt. bibliog diags J Phys Chem 45:1346-59 D '41

Heat of combustion of benzoic acid, with special reference to the standardization of bomb calorimeters. R. S. Jessup. bibliog J Research Nat Bur Stand 29:247-70 O '42

COMBUSTION, Submerged

Submerged combustion increases pickling output in shipyards. Marine Eng 47:274 O '42

COMBUSTION research. See Gas and oil engines—Combustion research

COMETS

Comet or asteroid? fast-moving object in the constellation of Leo. C. A. Federer, jr. Science 95:sup 10 Ap 3 '42

Cometary tails. H. N. Russell. il Sci Am 167:158-9 O '42

Latest comet to return this year. C. A. Federer, jr. Science 95:sup10 My 22 '42

Molecular spectra of astronomical interest. H. N. Russell. Sci Am 166:18-19 Ja '42

New Whipple comet and the total eclipse of the moon. Science 95:sup8+ F 13 '42

Reappearance of Schwassmann-Wachmann comet. Science 96:sup8 O 9 '42

COMIC periodicals. See Periodicals, Comic

COMMERCE

Commercial anthology; English extracts for commercial students. E. Sladen, comp. 87p bibliog(p87) 80c Pitman '41

Economic survey of the Pacific area; pt. 2, Transportation, by K. R. C. Greene; Foreign trade, by J. D. Phillips. 208p bibliog(p207-8) $2 Inst. of Pacific relations, New York '42

Foreign trade; principles and practices. G. G. Huebner and R. L. Kramer. rev ed 554p $4 Appleton-Century '42

Future of world trade. J. A. de Haas. Harvard Business R 21 no 1:100-8 [S] '42

Network of world trade; a companion volume to Europe's trade. 172p pa $2.75 Columbia univ. press '42

Transportation, key to future trade. W. C. Taylor. For Comm W 9:3+ O 31 '42

See also

Accounting
Advertising
Balance of payments
Banks and banking
Business
Canals
Commercial law
Commercial statistics
Competition
Contracts
Credit
Delivery of goods
Exchanges
Export trade
Foreign exchange
Imports
Insurance, Marine
Interstate commerce
Maritime law
Marketing
Merchandizing
Merchant marine
Money
Ports
Prices
Purchasing
Restraint of trade
Shipment of goods
Shipping
Tariff
Trade marks
Transportation
Trusts, Industrial—International trusts
Warehousing
Waterways
World war, 1939—Commerce

also subdivision Commerce under names of countries, cities, e.g. Great Britain—Commerce; United States—Commerce; New York (city)—Commerce

Bibliography

U.S. Department of commerce, International reference service, v 1, nos 1-67; price list. For Comm W 7:39 My 16 '42

Terminology

New revised foreign trade definitions. L. Kerr. Bankers M 144:12-18 Ja '42

COMMERCE and industry association of New York (formerly Merchants association of New York city)

Annual report. Comm & Fin Chr 154:1228 N 27 '41

COMMERCIAL aeronautics. See Aeronautics, Commercial

COMMERCIAL arithmetic. See Arithmetic, Commercial

COMMERCIAL bronze. See Brass

COMMERCIAL buildings

Commercial building follows population trends; Locatelli building, Belmont, Mass. il plans maps Arch Rec 90:82-5 D '41

Office and commercial buildings; building types study. il diags plans maps Arch Rec 90:81-8 D '41

See also

Bank buildings
Industrial buildings
Insurance company buildings
Office buildings
Store buildings

COMMERCIAL correspondence

Better business correspondence in war. C. C. Parkhurst. Credit & Fin Management 44:19-21+ N '42

Blue pencil control for better business letters. W. V. Doyle. il Ptr Ink Mo 43:39+ D '41

Business letters should be planned; here's formula. V. Young. Ptr Ink 200:28+ Jl 31 '42

How a bulletin series can be used to step up correspondence quality. P. H. Erbes, jr. il Ptr Ink 197:33, 36, 75-6 D 12 '41

How De Long handles correspondence about deliveries. C. A. Emley. Ind Marketing 27:30-1 F '42

How one firm cuts correspondence costs. Management R 31:374 N '42

How to answer requests for donations; some De Long letters. C. A. Emley. Ptr Ink 199:65 My 1 '42

How to cut correspondence costs; abstract. Management R 31:7-8 Ja '42

How to dictate better letters. J. F. Grady and M. Hall. 118p $1.50 Harper '42

Let's save words too; too many needless words in business letters. L. G. Holland. Ptr Ink 199:53+ My 29 '42

Let's write good letters. S. Perry. 176p $1 Am. rolling mill co, Middletown, Ohio '42

Letter program for overworked offices. Am Business 12:14-15 O '42

Mechanics of business letter writing. B. R. Haynes and I. Whitmore. (Bur. of research, School of business administration study 12) 67p pa 50c Univ. of Tennessee, Division of univ. extension, Knoxville '42

Methods study applied to correspondence; centralized stenographic pool; abstract. C. C. Fambrough. Management R 31:124-5 Ap '42

Modern business English. A. C. Babenroth. 3d ed rev 625p bibliog(p613-19) $3.75 Prentice-Hall '42

Post haste; a manual for modern letter writers. M. C. Foley and R. G. Gentles. 275p bibliog(p270-1) $1.50 Harper '39

Practical problems in business correspondence. W. H. Butterfield. 98p bibliog(pvii-viii) pa $2 Prentice-Hall '42

Psychology of credit letters. H. M. Sommers. Credit & Fin Management 44:4-7+ S; 10-12+ O; 12-15, 26-30 N '42

Soliloquy by the boss' secretary. V. Young. il Ptr Ink 198:30, 32+ Ja 2 '42

Theory of business communication. O. W. Phelps. diag J Business 15:343-60 O '42

Understanding, human reply to a letter is important in building public friendship. R. L. Barbour. Ins Field (Life ed) 71:6 Jl 10 '42

See also

Christmas letters
Collecting of accounts
Mailing lists
Sales letters
Stenographers

COMMERCIAL correspondence, Spanish

Correspondencia comercial al día; con datos útiles para la exportación. M. A. Luria. rev & enl ed 310p $1.80 Silver Burdett co, New York '41

Spanish commercial correspondence. A. F. Whittem, M. J. Andrade and G. Rivera. rev ed 273p $1.72 Heath '42

Spanish letter writing. L. H. Turk and A. M. Brady. 104p pa 60c Heath '42

COMMERCIAL credit company
Acquires engineering firm. Comm & Fin Chr 156:338 Jl 27 '42
Acquires Pennsylvania casualty firm. Comm & Fin Chr 156:778 Ag 31 '42
Annual report. Comm & Fin Chr 155:693-4 F 14 '42
Commercial Credit buys Pennsylvania Casualty; now has 4 insurers. Nat Underw 46:15-16 Ag 27 '42
Earnings; consolidated balance sheet, June 30. Comm & Fin Chr 156:616 Ag 17 '42
Volume for 1941 exceeded $1,000,000,000. Comm & Fin Chr 155:87 Ja 6 '42

COMMERCIAL geography. See Geography, Commercial

COMMERCIAL investment trust corporation
Acquires Holtzer-Cabot electric company. Comm & Fin Chr 156:778 Ag 31 '42
Annual report. Comm & Fin Chr 155:822 F 24 '42
Shares selling below net cash assets. H. Lawrence. Barron's 22:20 F 9 '42

COMMERCIAL law
American business law. R. R. Rosenberg. 632p $1.80 Gregg '42
Business law; with social and personal applications. R. O. Skar and B. W. Palmer. 478p $2.50 McGraw-Hill '42
See also
Advertising—Laws and regulations
Arbitration
Banking law
Bankruptcy
Collecting of accounts
Competition, Unfair
Contracts
Corporation law
Debtor and creditor
Food laws and legislation
Foreign exchange
Fraud
Government regulation of industry
Insurance law
Maritime law
Mortgages
Partnership
Patent laws and legislation
Payment
Price fixing
Price fixing, Resale
Prices—Regulation
Railroad law
Real property
Restraint of trade
Sales
Trade marks
Trust companies
Trusts, Industrial
Trusts and trustees

Examinations

American institute of accountants examination in commercial law. J Account 73:179-82, 564-6; 74:271-5 F, Je, S '42

Brazil

Preparing shipments for Brazil. For Comm W 8:9+ Ag 1 '42

Mexico

Doing business in Mexico. R. W. Zimmermann. Harvard Business R 20 no 4:508-16 [Jl] '42
Preparing shipments to Mexico; documentation, and consular and customs requirements. R. M. Sams. For Comm W 9:11-13, 36-7 N 7 '42

COMMERCIAL Mackay corporation
Commercial Mackay buys in its bonds. M. Pescatello. Barron's 21:19 N 17 '41

COMMERCIAL paper
Commercial paper and bankers' acceptances outstanding, Aug. 1940-Nov. 1941. Fed Res Bul 28:44 Ja '42 [cont monthly]
Commercial paper outstanding, monthly, March 30, 1940-Feb. 28, 1942. Comm & Fin Chr 155:1162 Mr 19 '42 [cont monthly]

COMMERCIAL policy
American engineer looks at Europe. C. A. Powel. Power Pl Eng 46:75-7+ S '42
Economic front of the western hemisphere during the war and after. V. L. Horoth. il Mag of Wall St 70:323-6 Jl 11 '42
Foreign trade; principles and practices. G. G. Huebner and R. L. Kramer. rev ed 554p $4 Appleton-Century '42
Foreign trade's pattern of the future. W. Chatfield-Taylor. For Comm W 7:3+ My 30 '42; Excerpts. Comm & Fin Chr 155:2036 My 28 '42
Future of world trade; Anglo-American proposals. Electrician 128:244-5 Mr 20 '42
Necessary evil; post-war policy. C. J. Hitch. Economist 142:820 Je 13 '42
New trends for trade after the war. V. L. Horoth. il Mag of Wall St 70:372-4+ Jl 25 '42
Raw materials and inter-American solidarity. A. R. Upgren. For Comm W 8:6-7+ Jl 4 '42
Restraint of trade; reports on reconstruction. Economist 142:781-2 Je 6 '42
Trade policies of foreign countries during 1941. H. Chalmers. For Comm W 6:6+ Ja 17; 6-7+ Ja 24; 8-9, 33-4 Ja 31; 8-9+ F 7 '42
See also
Commercial treaties and agreements
Free trade and protection—Free trade
Tariff
also subdivision Commercial policy under names of countries, e.g. Germany—Commercial policy; Great Britain—Commercial policy; United States—Commercial policy

COMMERCIAL products
Civilian hardship? Business Week p16-18 Ag 8 '42
Finished commodities since 1879; output and its composition. W. H. Shaw. 49p 25c Nat. bur. econ. research '41
Gross flow of finished commodities and new construction, 1929-41. W. H. Shaw. Survey of Cur Business 22:13-20 Ap '42
See also
Raw materials

COMMERCIAL solvents corporation
Earnings, 1938-1941. Comm & Fin Chr 155:1011 Mr 9 '42
Favored stocks priced from $1 to $10. Mag of Wall St Manual p8 Ap '42

COMMERCIAL standard insurance company, Fort Worth, Texas
Company analysis. Spectator (Property ed) 7:36-7 My 14 '42

COMMERCIAL statistics
Barron's business index revised. Barron's 22:1 S 7 '42
Barron's revised annual index. E. Frickey. Barron's 22:20 S 7; 7-8 S 14; 18-19 S 28 '42
Commercial history and review of 1941. Economist 142:sup3-30 Mr 14 '42
How's business? weekly and monthly indexes of production and trade. Published in weekly numbers of Barron's
International trade and finance, 1941. Survey of Cur Business 22:47-51 F '42
See also
Balance of payments
Export trade—Statistics
Imports—Statistics
Market statistics

COMMERCIAL treaties and agreements
Argentina-Canada; reciprocal most-favored-nation trade agreement. For Comm W 5:15 N 15 '41
Argentina-Peru unconditional, most-favored-nation commercial treaty. For Comm W 6:10 Mr 21 '42
Argentine-U.S. trade pact. Comm & Fin Chr 156:275 Jl 23 '42
Brazil-Canada trade agreement. For Comm W 5:9 N 22 '41
Brazil-Chile new most-favored-nation commercial treaty; specified duty reductions provisionally effective. For Comm W 6:11-12 Ja 24 '42
Brazil-U.S. sign vegetable oils pact. Oil Paint & Drug Rep 142:5+ Ag 31 '42
Brazil-U.S. trade pact. Comm & Fin Chr 156:462 Ag 6 '42
Brazil-United States; U.S. to get major Brazilian products. Oil Paint & Drug Rep 142:5 Ag 10 '42
Cuban-United States second supplementary trade agreement. For Comm W 6:10-11 Ja 3 '42
Cuban-United States trade pact. Comm & Fin Chr 155:25 Ja 1 '42
Cuban-United States trade pact signed. Oil Paint & Drug Rep 140:4+ D 29 '41
Denmark-Sweden agreement governing trade during second half of 1942. For Comm W 9:18 O 3 '42

COMMERCIAL treaties and agreements—*Cont.*
Germany agreement governing trade and payments during 1942 concluded with Sweden. For Comm W 6:14-15 Ja 10 '42
Haiti-U.S. defense and trade plan. Comm & Fin Chr 155:1631 Ap 23 '42
Indochina and Japan agreement. For Comm W 5:4-5+ N 29 '41
Mexico, U.S. to formulate program to develop Mexican resources and aid U.S. war effort. Comm & Fin Chr 155:1539 Ap 16 '42
More tariff bargains made, 1941. Oil Paint & Drug Rep 141:44 Ja 12 '42
Nicaragua-France most-favored-nation commercial treaty denounced and duty concessions canceled. For Comm W 7:17 My 9 '42
Peru and the United States trade agreement. For Comm W 7:15 My 23 '42
Peru-U.S. trade pact hearing. Oil Paint & Drug Rep 141:5+ Ja 5 '42
Peru-U.S. trade treaty. Comm & Fin Chr 155:1861 My 14 '42
Peru-U.S. trade treaty. Comm & Fin Chr 156:116 Jl 9 '42
Russia-U.S. pact extended. Comm & Fin Chr 156:462 Ag 6 '42
Swedish state credit is denied Germany; new trade agreement. Comm & Fin Chr 155:234 Ja 15 '42
Trade agreement calendar, Aug. 1934 to May 1942. For Comm W 8:34 Jl 4 '42
Trade agreement negotiations with Mexico and Bolivia; Mining congress presents industry's position. J. D. Conover. il Min Cong J 28:32-3+ Je '42
Turkey-Bulgaria new compensation and payments agreement. For Comm W 8:18 Ag 8 '42
Uruguay trade pact cuts many duties. Oil Paint & Drug Rep 142:4+ Jl 27 '42
Uruguay-United States trade agreement. For Comm W 8:10+ Ag 1 '42
Uruguay-U.S. trade treaty. Comm & Fin Chr 156:275 Jl 23 '42
See also
Favored nation clause

COMMISSIONS (compensation)
See also
Brokers—Commissions
Insurance agents—Commissions
New York stock exchange—Commissions
Salesmen—Salaries and commissions

COMMISSIONS, Administrative. See Administration, Public

COMMISSIONS, Federal. See United States—Executive departments

COMMITTEES (in management)
Technical committee system; General electric company. S. H. Blake. Gen Elec R 45:447-50 Ag '42

COMMODITY control. See European war, 1914-1918—Commodity control; Priorities and allocations, Industrial; World war, 1939—Commodity control

COMMODITY corporation
National securities & research corporation distributor for Commodity corp. stock; statement by H. J. Simonson, jr. on inflation and investments in commodities. Comm & Fin Chr 154:1539+ D 18 '41

COMMODITY credit corporation
CCC cotton sales program. Comm & Fin Chr 155:685 F 12 '42
CCC wheat for feed. Comm & Fin Chr 155:427 Ja 29 '42
Real lids on farm prices. Barron's 22:6 F 9 '42
Securities fully guaranteed by U.S. government, by issuing agencies, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:47 Ja '42 [cont monthly]
Sees ever-normal granary food reserves defense contribution; annual report of C.C.C. J. B. Hutson. Comm & Fin Chr 154:1668-9 D 25 '41
Southern agents hit by loss of loan agency covers. Nat Underw 46:8 Ja 22 '42
That farm battle; farm bloc campaign to forbid CCC to sell stocks of products below parity prices. Business Week p30+ Mr 7 '42
Wheat bugaboo; storage space problem. Business Week p54 My 23 '42

COMMODITY exchanges. See Exchanges

COMMON trust fund. See Trusts and trustees—Common trust funds

COMMONS, John Rogers, 1862-
John R. Commons' point of view. K. H. Parsons. bibliog J Land & Pub Util Econ 18:245-66 Ag '42

COMMONWEALTH and southern corporation
Action on plan sought. Comm & Fin Chr 156:1688 N 9 '42
Annual report. Comm & Fin Chr 155:2004-5 My 25 '42
C & S denied rehearing on one-stock order by SEC. Elec W News ed 117:1733 My 23 '42
Death sentence actions against corporation renewed. Comm & Fin Chr 155:2275 Je 15 '42
Outlook for Commonwealth & Southern preferred. W. W. Amos. Barron's 22:9 Ag 24 '42
Petition to review SEC order filed at Philadelphia. Comm & Fin Chr 156:1603 N 2 '42
President Whiting explains reasons for not paying preferred dividends. Comm & Fin Chr 156:512 Ag 10 '42
SEC brief defends order issued against corporation. Comm & Fin Chr 156:1324 O 12 '42
SEC integration of holding company systems. R. Blum. J Land & Pub Util Econ 17:423-39 N '41
Statement of president J. R. Whiting in connection with action omitting payment of preferred dividend. Comm & Fin Chr 155:2182 Je 8 '42
TVA gives notice of cancellation of contracts. Comm & Fin Chr 155:598 F 7 '42

COMMONWEALTH Edison company
Annual report. Comm & Fin Chr 155:915-16 Mr 2 '42
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:643 O 3 '42
$25,000,000 financing authorized. Comm & Fin Chr 155:598 F 7 '42

COMMONWEALTH fund
Commonwealth fund fellowships in medicine and public health. Science 96:56 Jl 17 '42
Health services. Science 95:187-8 F 20 '42
To do something for the welfare of man-kind. B. C. Smith. Science 95:384 Ap 10 '42

COMMONWEALTH insurance company of New York
Company analysis. Spectator (Property ed) 7:28-30 D 25 '41

COMMUNICABLE diseases. See Infectious diseases

COMMUNICATION, Electric. See Electric communication

COMMUNICATION, Military
Calling all planes, tanks, etc.; vital importance to the army of signals and methods of communication of information in modern warfare. H. Corey. Pub Util 29:803-10 Je 18 '42
See also
Radio communication, Military

COMMUNICATION and traffic
Bill to give President Roosevelt broad control over all communication lines. Pub Util 29:98-100 Ja 15 '42
Critical occupations in communications industries. Comm & Fin Chr 156:381 Jl 30 '42
FDR given power to control wires and cables. Comm & Fin Chr 155:679 F 12 '42
How it works; an encyclopedia of mechanical knowledge. E. Hawks. 512p $1.98 Garden City pub. co, Garden City, N.Y. '41
Major industry supports general defense; United States now communications center of world. W. H. Hillyer. il Barron's 22:9 Jl 27 '42
Print, radio, and film in a democracy. D. Waples, ed. 197p bibliog(p183-9) $2 Univ. of Chicago press '42

COMMUNICATION and traffic—*Continued*

Problems arising in regulating the communication facilities of the Nation in the interests of the present war effort. R. C. Wakefield. Pub Util 30:596-604 O 22 '42

See also

Aeronautics
Aeronautics, Commercial
Air lines
Airways
Canals
Commerce
Electric traction
Highway transportation
Motor vehicles
Postal service
Radio communication
Radio facsimile
Railroads
Rapid transit
River traffic
Road traffic
Roads
Shipping
Street railroads
Street traffic
Telautograph
Telegraph
Telephone
Television
Transportation
Travel
Waterways

History

Communications carried the tidings of war before serving its peacetime uses. J. Early. il Barron's 22:7 Mr 16 '42

COMMUNISM

Leninism; selected writings. J. Stalin. 479p $2.75 International publishers, 381 4th av, New York '42

New horizons. J. T. Murphy. 352p $4 Nelson (Toronto) '41

Theory of capitalist development; principles of Marxian political economy. P. M. Sweezy. 398p bibliog(p379-84) $4 Oxford '42

Toward integrated democracy. H. Waton. 77p; pa 50c for sale by East Side publicity, 243 E. 14th st, New York '42

COMMUNITY centers

Community recreation center, Seaford, Delaware. il diags plan Arch Forum 77:67-70 Jl '42

FPHA duration dormitories for industrial war workers; scheme proposed by Paul Nelson, architect; community building groups. plan Arch Rec 92:46 Jl '42

Health and recreational center, Houston, Texas; views, plans, and construction outline. Arch Forum 76:134-6 F '42

Town hall tonight; Fred Kistler, Kansas oil jobber, builds hall for welfare meetings. il Nat Pet N 34:30, 32 My 13 '42

War needs community facilities. il diags plans Arch Rec 91:47-62 My '42

COMMUNITY chests

Cabots speak to the people; Boston shows the way to make charity flourish in wartime. il Fortune 25:88-91, 118+ My '42

FDR makes appeal for community chest funds. Comm & Fin Chr 156:1368 O 15 '42

COMMUNITY life

Community life in a democracy. F. C. Bingham, ed. 246p bibliog(p222-46) $1 Nat. congress of parents and teachers, Chicago '42

Community organization and adult education; a five-year experiment. E. de S. Brunner. 124p $2 Univ. of North Carolina press, Chapel Hill '42

Community plan builds morale and new market in small town; Port Jervis, New York. il Sales Management 51:30, 32 N 1 '42

Small community, foundation of democratic life; what it is and how to achieve it. A. E. Morgan. 312p bibliog(p283-303) $3 Harper '42

Small town manual for community action! bibliog il U S Bur For & Dom Com Industrial Ser 4:1-46; pa 5c Supt. of doc. '42; Review. Sales Management 51:24-6+ O 20 '42

Social life of a modern community. W. L. Warner and P. S. Lunt. 460p $4 Yale univ. press '41

COMMUNITY power and light company

Stockholders approve merger. Comm & Fin Chr 156:692 Ag 24 '42

Stockholders meeting to vote on merger. Comm & Fin Chr 156:338-9 Jl 27 '42

COMMUNITY trusts

Community trust. J. L. Toomey. Banking 34:23+ Ja; 47 F '42

Community trust figures, 1941. Trusts & Estates 75:52 Jl '42

New York community trust ups payment in 1941. Comm & Fin Chr 155:341 Ja 22 '42

COMMUTATION

Commutation; theories, faults and remedies. diags Electrician 128:111-13, 163-4 F 13, 27 '42

COMMUTATORS

Commutation; theories, faults and remedies. diags Electrician 128:111-13, 163-4 F 13, 27 '42

Commutators kept clean with non-clogging stone. il Sci Am 166:299 Je '42

Correcting uneven commutator wear. diag Textile World 92:117 S '42

How to change commutator leads; illustrated instructions. Power 86:512 Jl '42

How to repair commutators. E. Swan. il Factory Management 100:122 My '42

How to resurface a commutator; illustrated instructions. Power 86:272-3 Ap '42

Something new in the care of commutators and rings. L. A. Leonard. Metal Finishing 40:203-5 Ap '42

COMPANY reports. See Corporations—Reports and yearbooks

COMPANY schools. See Corporation schools

COMPANY towns

Preview of tomorrow's industrial life; story of an American institution and a living trust. A. Stoddart. il Trusts & Estates 74:89-92 Ja '42

See also

Mining towns

COMPANY unions

Hand of the SEC; because of ownership ruling, union proof utility now has an infant independent. Business Week p87 S 5 '42

Matt Smith: independent. Business Week p78 Ag 22 '42

New utility union; independent organizations in 12 power companies join forces. Business Week p54 Ag 1 '42

Rival for C.I.U.; group of independents launches national organizing effort in Michigan. Business Week p38+ S 26 '42

Supreme court upholds right of employer to express his views on labor issues. Comm & Fin Chr 155:26 Ja 1 '42

Thompson, again. Business Week p38 S 26 '42

Utility labor unions organize national group. Elec W 118:1457 O 31 '42

See also

Confederated unions of America (Independent)
Employees' representation in management
United utilities union of America

COMPARATORS

Optigage optical comparator. il diag Engineering 153:486 Je 19 '42

Venwick mechanical comparator. il diags Engineering 154:307 O 16 '42

COMPASS

Compass and other aids to navigation. F. C. Stewart. Engineer 172:298-9 O 31 '41; Same abr. Engineering 152:326-7 O 24 '41

Device useful in teaching of air navigation; drawing and description. Why compass heading differs from the true heading. H. L. Bloxom. diag Civil Aero J 2:304 D 1 '41

Some fallacies about the magnetic compass. H. H. Howe. maps Aero Digest 41:84-6+ S '42

Treatise on compass compensation. L. V. Kielhorn. 195p $2.25 Van Nostrand '42

See also

Gyro compass
Radio compass

Bibliography

Flight instruments; bibliography giving references for research. J Aeronautical Sci Aeronautical R Sec 9:55, 57 N '41

COMPENSATION (law)

Law and practice of war damage compensation; a guide to the War damage acts, 1941, for practitioners. H. B. Williams and M. Evans. 416p 21s W. Heffer & sons, Cambridge, Eng. '41

War and merchant seamen; unemployment indemnities and compensation for loss of effects in the event of loss of the ship; detention and family allowances. Int Labour R 45:490-511 My '42

See also

Damages
Eminent domain
Workmen's compensation

COMPENSATORS, Optical

Plastic wedge compensator. C. T. Piecewicz. R Sci Instr 13:296-7 Jl '42

COMPETITION

Competition under rationing. C. I. Gragg, A. Grimshaw and S. F. Teele. Harvard Business R 20 no 2:141-55 [Ja] '42

Four rights. C. W. Phelps. Banking 35:32 O '42; Reply. A. A. Friedrich. 35:27+ N '42

Theory of competitive price. G. J. Stigler. 197p $3 Macmillan '42

See also

Chain stores
Monopolies
Price fixing
Trusts, Industrial

COMPETITION, International

Coffee; volatile brew of cooperation or competition. W. LaVarre. il For Comm W 5:4-6+ N 15 '41

U.S. company wages all-out war to smash Nazi control of Latin America drug outlets; Sterling products seizes I. G. Farbenindustrie propaganda machine. G. A. Nichols. il Ptr Ink 198:13-15, 48+ F 13 '42

COMPETITION, Unfair

FTC-Elasti-glass hearings. Glass Ind 23:25+, 94+, 138, 306 Ja, Mr-Ap, Ag '42

F.T.C. hits unfair disparaging of product; Columbia appliance corporation. Oil Paint & Drug Rep 141:5+ Ja 19 '42

Marmola loses. Business Week p62 My 9 '42

Marmola unfair sales ruling upheld. Oil Paint & Drug Rep 141:3+ My 4 '42

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

What is unfair competition? 348 FTC orders answer. Sales Management 50:40+ F 1 '42

See also

Federal trade commission
Restraint of trade

COMPETITIVE bidding. See Securities—Marketing

COMPLAINTS

Customer is always right, but; Mrs Pierson's complaint in connection with packaging of Gold Medal flour. Adv & Sell 35:50+ N '42

Sales contest technique to speed service to user; Westinghouse service opportunity contest. E. J. Hegarty. Ptr Ink 200:26+ Jl 31 '42

COMPLEMENT (physiology)

Terminology of the components of complement. L. Pillemer and E. E. Ecker. bibliog Science 94:437 N 7 '41

COMPLEMENT fixation

Use of the complement fixation test in Rocky Mountain spotted fever. H. Plotz and K. Wertman. Science 95:441-2 Ap 24 '42

COMPLEX numbers. See Numbers, Complex

COMPLEX salts. See Salts, Complex

COMPOUND words

War hyphen-time copy trend. J. B. Gray. Adv & Sell 35:30+ N '42

COMPRESSED air

Acidizing oil wells by air pressure. diag Comp Air M 47:6742 My '42

Additional receivers increase compressed-air capacity. C. A. Armstrong. il diags Power 86:503-5 Jl '42

Air motor drives model airplane. il Comp Air M 47:6823 Ag '42

Compressed air film doubles stamping speed. Aero Digest 41:154+ Jl '42

Compressed air for ammonia oxidation. D. G. Morrow. il Am Inst Chem Eng Trans 38:377-86 Ap '42

Compressed-air gun used for movie effects. il Comp Air M 47:6768 Je '42

Compressed air helps clean machine-gun barrels. il Comp Air M 47:6721 Ap '42

Compressed air in Hollywood; illustrations. Comp Air M 46:6623 D '41

Compressed air institute awards contest prizes. Comp Air M 47:6871 O '42

Compressed-air operating mechanism for oil circuit breakers. R. C. Cunningham and A. W. Hill. il diag Elec Eng 61:Trans 695-8 S '42; Excerpts. Machine Design 14:144, 160 N '42

Compressed-air plant and air liquefaction. J. Creevey. Chem Age (Lond) 46:301 Je 20 '42

Compressed air provides twenty-one flexible services for office building; piped to all parts of the Metropolitan Life building; actuates radiator valves, powers dampers, blows soot, etc. il Power 86:180-2 Mr '42

Compressed air speeds bomber part testing job. R. Gross. il Heating-Piping 14:495 Ag '42

Compressed air supply for breakers. R. C. Cunningham. diag Elec W 117:505-6 F 7 '41

Compressed air used for insulation. diag Elec W 117:111 Ja 10 '42

Compression and expansion of air. A. L. Egan. diags Engineering 153:423-4, 443-5 My 29-Je 5 '42

99 and 44/100% dry air for circuit breakers. C. Thumim. il diags Power 86:240-2 Ap '42

Oil reservoir drainage increased by intermittent air-injection. F. R. Cozzens. Pet Eng (Annual no) 13:120 [Jl] '42

Pneumatic loading of soil samples. E. J. Kilcawley. il Civil Eng 12:393-4 Jl '42

Prizes doubled in compressed air contest. Blast F & Steel Pl 30:679-80 Je '42

Producing suction with air blast. il Comp Air M 47:6827 Ag '42

Redesigned compressed air radiation unit. il Ry Age 112:820 Ap 25 '42; Same, with diags. Ry Mech Eng 116:341-2 Ag '42

2,500,000-kva compressed-air powerhouse breaker. L. R. Ludwig, H. M. Wilcox and B. P. Baker. il diags Elec Eng 61:Trans 235-41 My '42

See also

Air brakes
Air compressors
Caissons
Pneumatic control
Pneumatic conveying
Pneumatic tools

Physiological effects

Human life and death at high pressures; abstract. J. B. S. Haldane. J Ind Hygiene 24:sup104 My '42

Safety measures

Air under pressure. J. H. Mathewson. il Nat Safety N 45:28-9 Ja '42

COMPRESSED air circuit breakers. See Electric circuit breakers—Oilless

COMPRESSED air lines

Compressed air pipe friction; chart to determine pressure drop at a given temperature; data sheet. H. Gartmann. Power 86:281 Ap '42

Get the most from your air tools. Steel 111:106, 108 S 7 '42

COMPRESSED gases. See Gases, Compressed

COMPRESSIBILITY

Composition cork; with list of patents. L. P. Hart, jr. and others. bibliog il Ind & Eng Chem 34:649-58 Je '42

Compressibilities of gaseous mixtures of methane and normal butane; the equation of state for gas mixtures. J. A. Beattie, W. H. Stockmayer and H. G. Ingersoll. bibliog J Chem Phys 9:871-4 D '41

Compressibility of and an equation of state for gaseous isobutene. J. A. Beattie, H. G. Ingersoll and W. H. Stockmayer. bibliog Am Chem Soc J 64:548-50 Mr '42

Compressibility of liquid *n*-octane. W. A. Felsing and G. M. Watson. Am Chem Soc J 64:1822-3 Ag '42

COMPRESSIBILITY—*Continued*

Freezings and compressions to 50,000 kg/cm^2. P. W. Bridgman. J Chem Phys 9:794-7 N '41

Generalized thermodynamic properties of gases at high pressures. S. H. Maron and D. Turnbull. bibliog il Ind & Eng Chem 34:544-51 My '42

Second virial coefficient for gas mixtures. J. A. Beattie and W. H. Stockmayer. bibliog J Chem Phys 10:473-6 Jl '42

Simple method of applying the compressibility correction in the determination of true air speed. W. C. Schoolfield. bibliog J Aeronautical Sci 9:457-64 O '42

Superliquid in two dimensions and a first-order change in a condensed monolayer. W. D. Harkins and L. E. Copeland. J Chem Phys 10:272-86 My '42

COMPRESSORS

Application of heat exchangers for increasing evaporator capacity and improving compressor performance. K. M. Newcum. diags Refrig Eng 43:77-9 F '42

Commercial compressors; their design and development. W. W. Higham. il Refrig Eng 43:351-3 Je '42

Compressor design for the process industries. R. York, jr. bibliog il Ind & Eng Chem 34:535-44 My '42

History of the centrifugal refrigeration machine. W. A. Grant. diags Refrig Eng 43:82-6+ F '42

How rotary compressors operate. il Power 86:129-31 F '42

Improved rotary compressors. A. G. Arend. Chem & Ind 61:121-3 Mr 7 '42

Mineral lubricating oils; derivation, production and properties; use in refrigerating system compressors. E. S. Ross. Refrig Eng 44:27-33 Jl '42

Reporting what's new in equipment. il diag Chem & Met Eng 48:107-8 N '41

Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46:64-85 Mr '42

Unavailable compressor parts fabricated by pipe-line employees; distributor heads and collector rings made for magnetos of foreign manufacture. M. M. Heller. il diag Pet Eng 13:134-6 Mr '42

Variable capacity radial compressors. C. R. Neeson. il diags Refrig Eng 43:73-6, 150-3+ F-Mr '42

See also

Air compressors
Ammonia compressors
Gas compressors

Manufacture

Automatically welded seal; electric refrigerator compressor. il Steel 110:94+ Mr 9 '42

Testing

Proposed A.S.R.E. standard methods of rating and testing refrigerant compressors; A.S.R.E. circular no. 23. Refrig Eng 43: insert 1-14 [324g+] My '42 [ptd separately 20c]

COMPTON, Arthur Holly, 1873-
Sketch. Science 95:134 F 6 '42

COMPULSORY insurance. See Insurance, Compulsory

COMPULSORY labor. See Labor, Compulsory

COMPULSORY loans. See Loans, Compulsory

COMPULSORY military service. See Military service, Compulsory

COMPULSORY saving. See Saving, Compulsory

COMSTOCK lode, Nevada

We talked of yesterday; a diary of the Comstock lode 1863-1864. G. E. Cole. il maps Can Min J 62:755-62 N '41

CONANT, Gordon Daniel, 1885-
Portrait. Business Week p64 O 31 '42

CONANT, James Bryant, 1893-
Sketch. Chem & Ind 61:293 Jl 4 '42

CONCENTRATED food. See Food, Concentrated

CONCENTRATION camps

By order of the Gestapo; a record of life in Dachau and Buchenwald concentration camps. P. Wallner. 279p $2.50 Musson book co, 480 University av, Toronto, 2 '41

CONCENTRATORS

Dialyzing concentrator. C. C. Smith and C. D. Stevens. bibliog il diag Ind & Eng Chem Anal ed 14:348-9 Ap 15 '42

CONCILIATION service. See United States—Labor, Department of—Conciliation service

CONCRETE

Cement dispersion and concrete quality. E. W. Scripture, jr. il Eng N 127:804-7 D 4 '41

Concrete bottoms in rundown tanks solve light-oil corrosion problems. J. M. Vyn. diag Oil & Gas J 40:157 Ap 30 '42

Effects of grinding aids on portland cement concrete. C. H. Scholer. Am Concrete Inst J 14:61-2 S '42

First annual technical progress section; materials, equipment, and services. il diags Am Concrete Inst J 13:373-420 F '42

Forty-fifth annual meeting of A.S.T.M. to discuss vital problems; summaries of concrete and cement reports and papers. Concrete 50:8 Je '42

How to anchor pipe hangers in concrete. A. H. Korn. diags Power 86:720-2 O '42

Portland cement and the plastic concrete. R. H. Bogue. il J Chem Educ 19:36-42 Ja '42

Progress report on reflectivity of white portland cement concretes. C. W. Muhlenbruch. diags Concrete 50:8-10+ Ja '42

See also

Bridges, Concrete
Cement
Concrete, Reinforced
Concrete construction
Concrete lining
Concrete products
Gunite
Pavements, Concrete
Pipes, Concrete
Roads, Concrete

Aggregate

Aggregate production for Friant dam. C. T. Douglass. flow diag il Civil Eng 12:127-30 Mr '42

California experience with the expansion of concrete through reaction between cement and aggregate. T. E. Stanton and others. bibliog il Am Concrete Inst J 13:209-36 Ja '42; Discussion. 13:sup236^{1}-236^{39} N '42

Concrete failure attributed to aggregate of low thermal coefficient; cast stone steps. J. C. Pearson. il Am Concrete Inst J 13:29-34 S '41; Discussion. 13:sup36^{1}-36^{27} Je '42

Crush million tons of stone for T.V.A; Birmingham slag co. il Rock Prod 44:43-5 D '41

Developments in methods of testing and specifying coarse aggregates. L. H. Tuthill. Am Concrete Inst J 14:21-32 S '42

Effect of belt transportation on concrete aggregate grading at Shasta dam. G. L. Williams. il diags Am Concrete Inst J 13:329-32 F '42

Effect of fine aggregate on the durability of mortars. C. A. Hughes and K. A. Anderson. Am Soc T M Proc 41:987-1002 '41

Effect of grinding in the large mixers on aggregate grading at Hiwassee dam. W. R. Waugh. il Am Concrete Inst J 14:9-20 S '42

Expansion of concrete due to reaction between andesitic aggregate and cement. H. A. Coombs. Am J Sci 240:288-97, pl 1-2 Ap '42

Gravel for porous concrete; Becker County sand and gravel co. il Rock Prod 44:38-40+ D '41

Improving durability of concrete. S. Walker. Rock Prod 45:53 Mr '42

Influence of vibration, consistency, and grading of aggregate upon the design of concrete. G. W. Hutchinson. il Am Concrete Inst J 13:9-28 S '41; Discussion. 13:sup28^{1}-28^{15} Je '42

Lightweight aggregates for concrete. F. T. Moyer. U S Bur Mines Information Circ 7195:1-26 bibliog(p25-6) '42

CONCRETE—Aggregate—*Continued*

Pills for concrete; use of burnt clay pellets. Business Week p71 D 6 '41

Pops in slag concrete. F. Hubbard. Am Concrete Inst J 13:278-80 Ja '42

Properties of lightweight structural concrete made with Waylite aggregate. G. W. Washa and K. F. Wendt. il Am Concrete Inst J 13:505-17 Je '42; Discussion. 13:sup 520^1-520^3 N '42

Sand blending; simple mathematical methods of determining size distribution. F. C. Bond. Rock Prod 45:60+ O '42

Stone sand for Cherokee dam; American limestone co. B. Nordberg. il Rock Prod 44:46-8+ D '41

Study allowable tolerances in grading of aggregates. Concrete 50:37 O '42

Study of the cause of nonuniformity in the compressive strength of concrete pavement cores; effect of aggregate. V. L. Glover. diags Am Concrete Inst J 13:133-46 N '41; Discussion. 13:sup148^1-148^{12} Je '42

Switches quickly from lightweight units to heavy concrete ballast; use of slag as aggregate. il Concrete 50:16+ S '42

Air content

Determining air content of fresh concrete; report of committee C-9 on concrete and concrete aggregates. Concrete 50:8 S '42

Vacuum method of measuring the air content of fresh concrete. G. L. Pigman. diags Am Concrete Inst J 13:121-9 N '41

Bibliography

Current reviews of significant contributions in foreign and domestic publications, prepared by the Institute's reviewers. Published in American concrete institute journal

Cinder concrete

Builders of America is radio theme of Kansas City products program; Cinder concrete products, inc. il Concrete 50:20+ Je '42

Consider research program; National cinder concrete products association. Rock Prod 45:74 F '42

Selling block to the coal mines; Chartiers cinder block co. B. Nordberg. il Rock Prod 45:64, 66+ S '42

Selling concrete building units in a 300-year-old clay brick market; Cinder block company. E. A. Smith. il Concrete 50:46, 48+ Ja '42

Curing

Canal lining cured by sprayed coats of white-pigmented compound. O. G. Boden. il Am Concrete Inst J 13:449-51 Ap '42

Concrete curing compound, made on the job. P. A. Jones. Am Concrete Inst J 13:521-3 Je '42

Membrane curing method is successful in concrete highway construction. Concrete 50:35 O '42

New high water retaining concrete curing compound; Tru-Cure. il Pub Works 73:59 S '42

Proposed specifications for waterproof curing paper. Concrete 50:8 Ag '42

Wartime concrete curing. H. F. Clemmer. Roads & Bridges 80:78 S '42

Durability

Effect of fine aggregate on the durability of mortars. C. A. Hughes and K. A. Anderson. Am Soc T M Proc 41:987-1002 '41

Improving durability of concrete. S. Walker. Rock Prod 45:53 Mr '42

Observations on the durability of dry tamped silo staves. C. A. Hughes and K. A. Anderson. bibliog il Am Concrete Inst J 13:237-52 Ja '42; Discussion. 13:sup252^1-252^9 N '42

Progress in the long-time study of cement performance in concrete. F. R. McMillan. il Am Concrete Inst J 13:441-6 Ap '42

TDA, a catalyst dispersing agent; effects on quality of concrete. il Am Concrete Inst J 13:382-7 F '42

See also
Pavements, Concrete
—Scaling

Expansion and contraction

California experience with the expansion of concrete through reaction between cement and aggregate. T. E. Stanton and others. bibliog il Am Concrete Inst J 13:209-36 Ja '42; Discussion. 13:sup236^1-236^{39} N '42

Concrete under sustained working loads; evidence that shrinkage dominates time yield. G. A. Maney. bibliog Am Soc T M Proc 41:1021-30 '41; Abstract. Eng N 127:88-9 Jl 17 '41; Discussion. Am Soc T M Proc 41:1031-7 '41

Cracking of concrete. R. W. Carlson. il Boston Soc C E J 29:98-109 Ap '42

Early concrete volume changes and their control. M. A. Swayze. bibliog il Am Concrete Inst J 13:425-40 Ap '42

Effect of change in moisture-content of the creep of concrete under a sustained load. G. Pickett. bibliog diags Am Concrete Inst J 13:333-55 F '42; Discussion. R. W. Carlson. 13:sup356^1-356^2 N '42

Expansion of concrete due to reaction between andesitic aggregate and cement. H. A. Coombs. Am J Sci 240:288-97, pl 1-2 Ap '42

Prevention of cracking. E. W. Dienhart. Concrete 50:24-7 My '42

Prevention of cracking; proper curing of block and construction of walls essential. il diags Rock Prod 45:79-80 Mr '42

Problem of shrinkage in masonry units. W. G. Kaiser; J. C. Pearson. Am Concrete Inst J 14:66-8 S '42

Failure

California experience with the expansion of concrete through reaction between cement and aggregate. T. E. Stanton and others. bibliog il Am Concrete Inst J 13:209-36 Ja '42; Discussion. 13:sup236^1-236^{39} N '42

Concrete failure attributed to aggregate of low thermal coefficient; cast stone steps. J. C. Pearson. il Am Concrete Inst J 13:29-34 S '41; Discussion. 13:sup36^1-36^{27} Je '42

Cracking of concrete. R. W. Carlson. il Boston Soc C E J 29:98-109 Ap '42

Finishing

Whiteman concrete-finishing machines. il Roads & Bridges 80:44 Ap '42

Freezing

Concrete failure attributed to aggregate of low thermal coefficient; cast stone steps. J. C. Pearson. il Am Concrete Inst J 13:29-34 S '41; Discussion. 13:sup36^1-36^{27} Je '42

Effect of calcium chloride on strength of concrete at low temperatures. Franklin Inst J 233:76 Ja '42

Effect of calcium chloride on the strength of concrete. J. C. Yates. Roads & Bridges 80:96 Mr '42

Observations on the durability of dry tamped silo staves. C. A. Hughes and K. A. Anderson. bibliog il Am Concrete Inst J 13:237-52 Ja '42; Discussion. 13:sup252^1-252^9 N '42

Strength development of concrete affected by calcium chloride in low temperatures. Concrete 50:8 F '42

Use of calcium chloride as an admixture in concrete for high early strength and low temperature protection. Am Concrete Inst J 13:400-1 F '42

See also
Concrete construction in winter

Mixing

See Concrete mixing

Moisture content

Concrete specifications and water content of concrete. S. J. Warberg. diag Am Concrete Inst J 13:169-72 N '41

CONCRETE—Moisture content—*Continued*

Effect of change in moisture-content of the creep of concrete under a sustained load. G. Pickett. bibliog diags Am Concrete Inst J 13:333-55 F '42; Discussion. R. W. Carlson. 13:sup356^1-356^2 N '42

Forced air drying of concrete masonry units. il Concrete 50:10-11, 18+ Je '42

Prevention of cracking. E. W. Dienhart. Concrete 50:24-7 My '42

Painting

Applying portland cement paint to concrete masonry walls. P. M. Woodworth. il Concrete 50:10-11+ Ap '42; Abstract. Rock Prod 45:86-7 My '42

How to get satisfactory results when applying paint to concrete masonry walls; abstract. L. McCandless. il Rock Prod 45:86 F '42

Nature of portland cement paints and proposed recommended practice for their application to concrete surfaces; report of ACI committee 616. Am Concrete Inst J 13:485-501 Je '42

Painting cement and concrete; abstract. E. Stern. Paint Oil & Chem R 104:7 Ag 13 '42

Prestressing

First prestressed gunite water tank for a Canadian municipality; Ste Anne de Bellevue, Que. E. Fancott. il Water & Sewage 80:17+ My '42

Relative merits of wire and bar reinforcement in pre-stressed concrete beams; abstract. R. H. Evans. Am Concrete Inst J 14:81-2 S '42

Some experience with prestressed steel in small concrete units. R. E. Dill. diag Am Concrete Inst J 13:165-8 N '41

Setting

Rapid hardening is urgent in military and winter work. Concrete 50:44 Mr '42

Shrinkage

See Concrete—Expansion and contraction

Specifications

Concrete specifications and water content of concrete. S. J. Warberg. diag Am Concrete Inst J 13:169-72 N '41

Practical specifications for structural concrete. L. H. Tuthill. Am Concrete Inst J 13:361-3 F '42

Standards

Discussion of dynamic methods of testing concrete with suggestions for standardization. L. Obert and W. I. Duvall. diags Am Soc T M Proc 41:1053-70; Discussion. 1071 '41

Strength

Determining proportions of concrete for desired compressive strengths. A. T. Goldbeck and J. E. Gray. Eng N 129:638-9 N 5 '42

Effect of calcium chloride on the strength of concrete. J. C. Yates. Roads & Bridges 80:96 Mr '42

Effect of capping methods and end conditions before capping upon the compressive strength of concrete test cylinders. G. E. Troxell. diag Am Soc T M Proc 41:1038-44; Discussion. il 1045-52 '41

Effect of carbon black on the strength of mortar. D. O. Woolf. Pub Roads 22:231-2 D '41

How relative height of test specimens affects strength of concrete. J. W. Johnson. Concrete 50:5-6 O '42

Influence of vibration, consistency, and grading of aggregate upon the design of concrete. G. W. Hutchinson. il Am Concrete Inst J 13:9-28 S '41; Discussion. 13:sup28^1-28^{15} Je '42

Research proves value of precast concrete floor systems. E. W. Dienhart. diags Concrete 50:10-11+ Jl; 20-2+ Ag '42

Statistical theory of the effect of dimensions and of method of loading upon the modulus of rupture of beams. J. Tucker, jr. bibliog Am Soc T M Proc 41:1072-88; Discussion. 1089-94 '41

Strength development of concrete affected by calcium chloride in low temperatures. Concrete 50:8 F '42

Strength of cement-lime mortars and concretes. W. F. Cassie. Engineering 152:301-3 O 17 '41

Study of the cause of nonuniformity in the compressive strength of concrete pavement cores; effect of aggregate. V. L. Glover. diags Am Concrete Inst J 13:133-46 N '41; Discussion. 13:sup148^1-148^{12} Je '42

Use of calcium chloride as an admixture in concrete for high early strength and low temperature protection. Am Concrete Inst J 13:400-1 F '42

Temperature

High temperature recorded in large monolith of concrete. il Eng N 128:852 My 21 '42

Testing

A.S.T.M. convention hears many papers on concrete. Concrete 50:5-6 Jl '42

Determining air content of fresh concrete; report of committee C-9 on concrete and concrete aggregates. Concrete 50:8 S '42

Device for studying the workability of concrete. T. C. Powers and E. M. Wiler. bibliog il Am Soc T M Proc 41:1003-15; Discussion. 1016-20 '41

Discussion of dynamic methods of testing concrete with suggestions for standardization. L. Obert and W. I. Duvall. diags Am Soc T M Proc 41:1053-70; Discussion. 1071 '41

Early concrete volume changes and their control. M. A. Swayze. bibliog il Am Concrete Inst J 13:425-40 Ap '42

Effect of capping methods and end conditions before capping upon the compressive strength of concrete test cylinders. G. E. Troxell. diag Am Soc T M Proc 41:1038-44; Discussion. il 1045-52 '41

Effect of carbon black on the strength of mortar. D. O. Woolf. Pub Roads 22:231-2 D '41

How relative height of test specimens affects strength of concrete. J. W. Johnson. Concrete 50:5-6 O '42

Idaho's testing laboratory spells better highways. B. Snyder. il Concrete 49:6+ D '41

Measuring the length of drilled core specimens. L. W. Teller. Concrete 50:33-5 O '42

Properties of lightweight structural concrete made with Waylite aggregate. G. W. Washa and K. F. Wendt. il Am Concrete Inst J 13:505-17 Je '42; Discussion 13:sup 520^1-520^3 N '42

Strength of cement-lime mortars and concretes. W. F. Cassie. Engineering 152:301-3 O 17 '41

Treated cement concrete resists scaling; use of treated portland cements and blends with natural cement. A. A. Anderson. il Explosives Eng 20:10-14, 26-30 Ja '42

Vacuum method of measuring the air content of fresh concrete. G. L. Pigman. diags Am Concrete Inst J 13:121-9 N '41

See also
Concrete—Durability
Concrete, Reinforced
—Testing

Transportation

Cut cost of concrete deliveries; contract to protect ready-mixed producer when bad roads cause truck damage and delays. il Rock Prod 45:101-2 Ag '42

Vibration

Internal vibration of concrete. F. Wackenhut. diags Transit J 85:465-6 D '41

Tractor-mounted vibrator used by German troops. Eng N 128:561 Ap 9 '42

Waterproofing

See Waterproofing

CONCRETE—*Continued*

Workability

Device for studying the workability of concrete. T. C. Powers and E. M. Wiler. bibliog il Am Soc T M Proc 41:1003-15; Discussion. 1016-20 '41

Wrecking

Wrecking of old concrete building provides interesting data. il Eng N 129:357 S 10 '42

CONCRETE, Effect of chlorides on

Effect of calcium chloride on the strength of concrete. J. C. Yates. Roads & Bridges 80:96 Mr '42

Treated cement concrete resists scaling; use of treated portland cements and blends with natural cement. A. A. Anderson. il Explosives Eng 20:10-14, 26-30 Ja '42

CONCRETE, Effect of sulfates on

Effect of fine aggregate on the durability of mortars. C. A. Hughes and K. A. Anderson. Am Soc T M Proc 41:987-1002 '41

Effect of metal sulfates on concrete. H. M. Larmour and W. F. Keyes. Rock Prod 45:64 Mr '42

Study of resistance of portland cements to sulfate solutions. G. R. Gause. Concrete (mill sec) 50:145-6 Mr '42

CONCRETE, Porous

Gravel for porous concrete; Becker County sand and gravel co. il Rock Prod 44:38-40+ D '41

Making a porous concrete pipe; Jourdan concrete pipe co. W. B. Lenhart. il Rock Prod 45:64-6 Ap '42

CONCRETE, Ready-mixed. See Concrete mixing—Ready-mixed concrete

CONCRETE, Reinforced

Air-raid shelter for fifty people; Windham Center, Conn. il diags Eng N 128:904-5 Je 4 '42

Air-raid shelters for single families and for apartment buildings. plans Concrete 50:16, 22+ Mr '42

Aluminum powder to increase bond of concrete to reinforcing steel. F. R. McMillan. Am Concrete Inst J 13:183-4 N '41

Building regulations for reinforced concrete. 63p pa 50c; to members 40c Am. concrete inst, 7400 2d blvd, Detroit '41

Cement for steel; conserving vital metal in nation's huge military and industrial construction program. Business Week p58+ Ap 11 '42

Comparison of reinforced concrete tied column formulas. C. A. Willson. Am Concrete Inst J 13:181-3 N '41

Computing stirrup spacing in non-rectangular shear diagrams. W. C. Goodwin. Am Concrete Inst J 13:478-80 Ap '42

Concrete frames designed to save steel. J. J. Polivka. diags Eng N 128:981-4 Je 18 '42

Concrete rockers for Hawaiian bridges. R. C. Brinker. il diags Eng N 128:421-2 Mr 12 '42

Constructing the La Grande reservoir. E. H. Ford. il diags Pub Works 73:19-20 O '42

Council Bluffs builds twin reservoirs of prestressed reinforced concrete. il Concrete 50:2-3 Ap '42; Same. Pub Works 73:11-12 Je '42; Same. Eng N 128:608-9 Ap 23 '42

Developments in concrete-construction methods. R. Hammond. il diags Engineering 152:481-3, 501-3 D 19-26 '41

Economy in light structural steel shapes as concrete reinforcement. V. P. Saxe. il diags Concrete 50:8 My '42

Essentials of reinforced concrete design. O. Albert. diags Concrete 50:11-14+ Ja; 41-4 F; 41-3 Mr; 33-7 Ap '42

Formula and a diagram for the spacing of stirrups. E. Zbinden. Am Concrete Inst J 13:528-32 Je '42

How structural designers may conserve steel. Concrete 50:6+ My '42

Integral centering for concrete arch ribs; unusual construction procedure expedites building of asphalt plant for borough of Manhattan, New York. G. M. Serber. il diags Civil Eng 12:439-41 Ag '42

New ways to save steel in concrete. il Arch Rec 91:59-60 F '42

Proposed recommended practice for use of metal supports for reinforcement. diags Am Concrete Inst J 13:173-6 N '41

Reinforced concrete creates second floor within old industrial building. il Concrete 50:2-3 Je '42

Relative merits of wire and bar reinforcement in pre-stressed concrete beams; abstract. R. H. Evans. Am Concrete Inst J 14:81-2 S '42

Saving critical materials in bridge and highway construction. S. Mitchell. diags Roads & Sts 85:32-7 Ap '42

Saving steel by substituting concrete. H. Cross. il diag Civil Eng 12:365-7 Jl '42

Saving steel in concrete. C. M. Siquot. Eng N 129:9 Jl 2 '42

Saving steel in factory design; use of concrete cuts need for critical material. diags Am Bld 64:60+ Je '42

Saving steel in reinforced concrete design. R. L. Bertin. Am Concrete Inst J 13:281-7 F '42; Discussion. 13:sup288^{1}-288^{35} Ap; sup 288^{37}-288^{38} N '42

Some experience with prestressed steel in small concrete units. R. E. Dill. diag Am Concrete Inst J 13:165-8 N '41

Studies of steel economy in concrete slabs and columns. A. J. Boase. Eng N 128:866-7 My 21 '42

This C.N.R. bridge designed to economize in steel; deck of Dorval, Que. bridge largely of reinforced concrete. il diag Ry Age 112:691-2+ Ap 4 '42

Thrust and symmetrical bending in reinforced concrete. S. U. Benscoter. Civil Eng 12:214-16 Ap '42

What concrete coverage to protect reinforcing. Am Concrete Inst J 13:360-1 F '42

Wire saves steel in concrete joists. il diags Eng N 128:930-2 Je 4 '42

See also

Bridges, Concrete

Concrete construction

Concrete slabs

Testing

Bond stress in concrete pull-out specimens. D. Watstein. il diags Am Concrete Inst J 13:37-50 S '41; Discussion. 13:sup52^{1}-52^{8} Je '42

Influence of steel grade upon strength and deflections of reinforced concrete beams; abstract. E. Suenson. Am Concrete Inst J 13:188-9 N '41

Tests of reinforced concrete beams with recommendations for attaining balanced design. K. C. Cox. bibliog il diags Am Concrete Inst J 13:65-80 S '41; Discussion. 13:sup80^{1}-80^{11} Je '42

CONCRETE barges. See Barges, Concrete

CONCRETE blocks

Concrete spandrel beam blocks. S. S. Neff. diags Civil Eng 12:395 Jl '42

Modernizing housing in Latin America; English and Spanish text. G. W. Hoffmann. il Rock Prod 45:77-8 My '42

Modify dimensions of concrete units on housing project. Concrete 50:26 Ag '42

New types of masonry; demonstrations and discussions by National concrete masonry assn. il Rock Prod 45:80-1+ F '42

Pennsylvania war workers well housed in concrete masonry buildings. il Concrete 50:17+ Jl '42

Precast concrete replaces scarce metals and keeps products plants busy. il diags Concrete 50:14-16 Ag '42

Prevention of cracking; proper curing of block and construction of walls essential. il diags Rock Prod 45:79-80 Mr '42

Protection of waterworks against sabotage and bomb damage; use of concrete-masonry units. il diags Water & Sewage 80:21-2 Ag '42

Quality + salesmanship + merchandising sell a million blocks in Kansas City. il Concrete 50:20-1 Mr '42

CONCRETE blocks—*Continued*

Realtor-builder's experience with concrete masonry. G. S. Clarke. Concrete 50:18, 20 Ap '42

Sell architect first; Katterjohn concrete products co. merchandising plan. B. Nordberg. il Rock Prod 45:53-4 Jl '42

Selling block to the coal mines; Chartiers cinder block co. B. Nordberg. il Rock Prod 45:64, 66+ S '42

Selling concrete building units in a 300-year-old clay brick market; Cinder block company. E. A. Smith. il Concrete 50:46, 48+ Ja '42

Selling concrete in a clay market; Concrete manufacturing co. il Rock Prod 45:73, 76 My '42

Where products plants should get business through 1942. W. G. Kaiser. Concrete 50: 22, 24 Ja '42

Manufacture

Batcher to block machine without a hitch; Concrete specialties, inc. il Rock Prod 45: 69-70 Je '42

Builders of America is radio theme of Kansas City products program; Cinder concrete products, inc. il Concrete 50:20+ Je '42

Defense doubles production in one year at Baltimore products plant; V. Paturzo bro. & son. il Concrete 49:18-19+ D '41

Fluorescent lighting for block plant; May sand and gravel co. il Rock Prod 45:68-9 Ap '42

Forced air drying of concrete blocks; abstract. P. M. Woodworth. il Rock Prod 45: 84-5 Mr '42

Forced air drying of concrete masonry units. il Concrete 50:10-11, 18+ Je '42

Making a porous concrete pipe; Jourdan concrete pipe co.; also fire-resistant pumice concrete masonry unit. W. B. Lenhart. il Rock Prod 45:66 Ap '42

No waste motion in block plant; Cinder products corp. il Rock Prod 44:63-4+ D '41

Speed handling and delivery of blocks with high-lift fork trucks. H. Paulson. il Concrete 50:18-19 F '42

Switches quickly from lightweight units to heavy concrete ballast; use of slag as aggregate. il Concrete 50:16+ S '42

Use ready mix practices for concrete block; Continental block co. il Rock Prod 45:100 Ag '42

Testing

Concrete masonry vs. sabotage; firearms test. il Concrete 50:14+ Ap '42

CONCRETE bridges. See Bridges, Concrete

CONCRETE buildings

Earthquake stresses in frame structures. R. E. Glover. bibliog il Am Concrete Inst J 13:453-70 Ap '42; Discussion. 13:sup472^{1}-472^{12} N '42

How reinforced concrete structures resist air raids. Concrete 50:8 N '42

Modern adaptation of architectural concrete; water and sewage disposal plants. il Water Works & Sewerage 89:133-5 Mr '42

News from London; prefabrication in England. J. E. Reid. diags Arch Rec 92:18 Ag '42

Now a low-cost court house, and it's concrete; Gallatin County courthouse, New Shawneetown, Ill. il Concrete 49:26 D '41

Reinforced concrete mercantile building in Kansas City has long service record. il Concrete 50:27 Je '42

Single-story concrete factory. il diag Eng N 129:583-8 O 22 '42

Structural-framed buildings resist shock of heaviest air-raid bombs. Concrete 49:3 D '41

Wrecking of old concrete building provides interesting data. il Eng N 129:357 S 10 '42

See also

Concrete houses

Silos, Concrete

CONCRETE columns. See Columns, Concrete

CONCRETE construction

Air-raid shelters for single families and for apartment buildings. plans Concrete 50:16, 22+ Mr '42

Architectural concrete on the new Naval medical center. H. C. Fischer. il diags plans Am Concrete Inst J 13:289-311 F '42

Beauty in concrete; abstract. D. McCormick. Concrete 50:11+ Mr '42

British emergency buildings made from precast concrete. Eng N 128:988 Je 18 '42

Builders put hogs on concrete for bigger pork profits; how to plan and build permanent sanitary hog house and feeding floor. il plan Am Bld 64:82-3 Ap '42

Building feeding floors of concrete keeps Michigan contractor busy. il diag Concrete 50:16+ N '42

Building regulations for reinforced concrete. 63p pa 50c; to members 40c Am. concrete inst, 7400 2d blvd, Detroit '41

City contractors find farm construction a profitable field. diags Concrete 50:10+ Ag '42

Combined hangar and office building, Denver airport. il diag Eng N 128:402-3 Mr 12 '42

Concrete and laminated wood framing; machine shop, built by the Defense plant corp. il diags Eng N 129:566-8 O 22 '42

Concrete arched aeroplane hangars. Engineer 173:247 Mr 20 '42

Concrete beehive for munitions storage. F. R. MacLeay. il diags Eng N 128:498-500 Mr 26 '42

Concrete bomb shelter is integral part of big aircraft plant. W. E. Reynolds. il Concrete 50:4-5+ N '42

Concrete building; new Chrysler plant. Business Week p69-70 Je 13 '42

Concrete in the war. il Rock Prod 45:59-62 Ag '42

Concrete masonry speeds construction of modern flying school; Roscoe Turner aeronautical corporation. il Concrete 50:6 Ap '42

Concrete structures expand navy yard at Charleston. il Concrete 49:34 D '41

Concrete work, dealing with plain and reinforced concrete construction, concrete roads, and road repairs. E. Molloy, ed. 140p $2.50 Chemical pub. co. '42

Concreting a 100-acre office building; War department office building in Arlington, Va. il Eng N 128:920-4 Je 4 '42

Dairy-barn improvements offer big market to concrete contractors. diags Concrete 50: 11+ S '42

Developments in concrete-construction methods. R. Hammond. il diags Engineering 152:481-3, 501-3 D 19-26 '41

Economy in light structural steel shapes as concrete reinforcement. V. P. Saxe. il diags Concrete 50:8 My '42

Factory construction; new warspeed method of concrete roof and girder construction. il Arch Forum 77:89-92 O '42

Factory that shortage built; Wright aeronautical corp. building containing no structural steel. Fortune 26:26+ Ag '42

Flat slabs reduce cubage in six-story building; Exchange building, La Crosse, Wis. il diags plans Arch Rec 90:86-8 D '41

Good practice in concrete masonry wall construction. K. C. Tippy. il diags Am Concrete Inst J 13:317-28 F '42; Discussion. 13:sup328^{1}-328^{15} N '42

How the present emergency opens the way to more concrete construction. A. E. Jordan. Concrete 50:26, 28 Ja '42

How to build out rats with concrete floors, foundations and walls. diags Am Bld 64:60 Ag '42

How we did it before; rapid construction and employment management in building Navy and munitions building, Washington, D.C. in 1918. il Eng N 129:236-8 Ag 13 '42

Inland plant for bomber assembly and plane testing field. il Eng N 128:606-7 Ap 23 '42

Integral centering for concrete arch ribs; unusual construction procedure expedites building of asphalt plant for borough of Manhattan, New York. G. M. Serber. il diags Civil Eng 12:439-41 Ag '42

CONCRETE construction—*Continued*

Modern hospital at Charleston navy yard is all-concrete construction. il Concrete 50:6 S '42

Monolithic concrete restores deteriorated cathedral; St Joseph's cathedral, Sioux Falls. R. A. Perkins. il Concrete 49:4-5 D '41

More concrete being used in Britain. Eng N 129:365 S 10 '42

Navy builds concrete hangars at San Diego; thin-shell barrel-type arch structures. il Eng N 127:786-8 D 4 '41

New ways to save steel in concrete. il Arch Rec 91:59-60 F '42

1001 ways to use concrete. H. O. Hayes, ed. 2d ed 238p $1.98 Popular mechanics press, Chicago '41

Permissible construction jobs should keep concrete contractors busy. Concrete 50:24-5 Je '42

Planning the world's largest building; War department office building. il plans Eng N 129:569-75 O 22 '42

Precast concrete framing units for navy warehouse. il diags Eng N 127:879-81 D 18 '41

Precast concrete in wartime building; with time-saver standards. il diags Arch Rec 91:55-62 Mr '42

Precast concrete replaces scarce metals and keeps products plants busy. il diags Concrete 50:14-16 Ag '42

Precision concrete for 194x. il diags Arch Forum 77:136-7 S '42

Progress in the structural elements of buildings. T. L. Condron. il diag W Soc E J 47: 229-34 O '42

Pumping high-early-strength concrete on building construction. il plan Concrete 50: 2-4 Mr '42

Reinforced concrete school replaces a firetrap; Ocean View elementary school, Norfolk, Va. il plans Arch Rec 91:74-5 Mr '42

Resourceful contractor can obtain needed building material. Concrete 50:28 F '42

Shipyard uses basins instead of ways. il Eng N 129:293-5 Ag 27 '42

Sliding scaffolds speed cement plant. il diags Eng N 128:474-7 Mr 26 '42

Specification for mortar for concrete masonry. Concrete 50:17-18 Ag '42

Substantial service roads speed army base construction; warehouses for a quartermaster base; concrete and wood construction. il Eng N 128:768-71 My 7 '42

Surface type of shelter; diagrams. Rock Prod 45:74-5 O '42

War plant buildings without footings; unreinforced-concrete floor slabs, integral with wall sills and column pedestals. il diags Eng N 129:350-2 S 10 '42

Wartime building construction. 151p $4 Chemical pub. co. '42

See also

Bridges, Concrete
Coal bins, Concrete
Columns, Concrete
Concrete, Reinforced
Concrete blocks
Concrete buildings
Concrete houses
Concrete lining
Concrete mixing
Concrete placing
Concrete plants
Concrete slabs
Concrete stone
Dams, Concrete
Floors, Concrete
Footings, Concrete
Railroads—Concrete construction
Reservoirs, Concrete
Roofs, Concrete
Ships, Concrete
Silos, Concrete
Walls, Concrete
Water conduits, Concrete

Bibliography

Current reviews of significant contributions in foreign and domestic publications. Published in American concrete institute journal

Design

Auditorium building redesigned in concrete. W. H. Wheeler. plans Eng N 129:578-9 O 22 '42

Comparison of reinforced concrete tied column formulas. C. A. Willson. Am Concrete Inst J 13:181-3 N '41

Computing stirrup spacing in non-rectangular shear diagrams. W. C. Goodwin. Am Concrete Inst J 13:478-80 Ap '42

Concrete frames designed to save steel. J. J. Polivka. diags Eng N 128:981-4 Je 18 '42

Design diagrams for square concrete columns eccentrically loaded in two directions. P. Andersen. Am Concrete Inst J 13:149-63 N '41

Design of box culverts. C. R. Burky. diags Am Concrete Inst J 14:33-52 S '42

Design of concrete retaining walls. O. Albert. diags Concrete 50:33-6 Je; 33-5 Jl; 33-5 Ag '42

Design of eccentrically loaded concrete columns. J. C. Spotts. diags Civil Eng 12: 275-6 My '42

Essentials of reinforced concrete design. O. Albert. diags Concrete 50:11-14+ Ja; 41-4 F; 41-3 Mr; 33-7 Ap '42

Formula and a diagram for the spacing of stirrups. E. Zbinden. Am Concrete Inst J 13:528-32 Je '42

Grid system floor of record spans; service building for Chevrolet motor co. S. D. Szego. il diag Eng N 128:16-18 Ja 1 '42

How structural designers may conserve steel. Concrete 50:6+ My '42

Monolithic concrete barrel-roof design for U.S. navy supply depot. il diag Concrete 50:5-6 My '42

Reinforced-concrete structures in air attack. Engineering 152:328 O 24 '41

Saving reinforcing steel by balancing the design. A. J. Boase. diags W Soc E J 47: 195-202 O '42

Saving reinforcing steel by rationalizing safety factors. A. J. Boase. Eng N 128:785-7 My 7 '42; Discussion. M. Hirschthal. 128:900-1 Je 4 '42

Saving steel by substituting concrete. H. Cross. il diag Civil Eng 12:365-7 Jl '42

Saving steel in factory design; use of concrete cuts need for critical material. diags Am Bld 64:60+ Je '42

Saving steel in reinforced concrete design. R. L. Bertin. Am Concrete Inst J 13:281-7 F '42; Discussion. 13:sup288^1-288^{35} Ap; sup288^{37}-288^{38} N '42

Single-story concrete factory. il diag Eng N 129:583-7 O 22 '42

Slide rule for designing reinforced concrete beams. W. N. Hazen. il Civil Eng 12:37 Ja '42

Slide rule for designing reinforced concrete slabs. W. N. Hazen. diag Civil Eng 11: 731-2 D '41

Studies of steel economy in concrete slabs and columns. A. J. Boase. Eng N 128:866-7 My 21 '42

Tests of reinforced concrete beams with recommendations for attaining balanced design. K. C. Cox. bibliog il diags Am Concrete Inst J 13:65-80 S '41; Discussion. 13: sup80^1-80^{11} Je '42

Thrust and symmetrical bending in reinforced concrete. S. U. Benscoter. Civil Eng 12:214-16 Ap '42

WPB concrete specifications established for steel saving. Eng N 129:463 O 8 '42

Warehouse designed to speed construction. il Eng N 128:622-4 Ap 23 '42

Wide-span hangars for the U.S. navy; reinforced concrete structures of unique design. A. Tedesko. il diags Civil Eng 11: 697-700 D '41

See also

Columns, Concrete

Failure

Part of old brick and concrete building collapses from overloading. il Concrete 50:4-5 S '42

Prevention of cracking. E. W. Dienhart. Concrete 50:24-7 My '42

Prevention of cracking; proper curing of block and construction of walls essential. il diags Rock Prod 45:79-80 Mr '42

Fire resistance

Incendiary-proof houses; precast concrete slabs used in California. A. R. Boone. il Rock Prod 45:124, 126 Ja '42

CONCRETE construction—*Continued*

Forms

Absorptive form lining. E. N. Vidal and R. F. Blanks. bibliog il diag Am Concrete Inst J 13:253-68 Ja '42; Discussion. 13:sup268^1-268^4 Je '42
Absorptive form lining tests at Friant. il diag Eng N 127:884-6 D 18 '41
Fabricating and erecting column forms. C. Macklin. diags Am Concrete Inst J 13:273-4 Ja '42
How absorptive form liner was utilized on Friant Dam project. W. Waterfall. il Concrete 50:18+ My '42
Inflated rubber forms used to construct experimental igloo houses. il Eng N 127:757 N 27 '41
Irrigation conduit gunited on simple movable forms. C. R. Browning. il Civil Eng 12:272-3 My '42
Planned formwork speeds construction; Fort Greene houses. il plan Eng N 129:302-4 Ag 27 '42
Rubberized cotton fabric balloons used in construction of defense homes; used as forms for concrete; Falls Church defense homes project. il Rubber Age 50:189-90 D '41; Same cond. Concrete 50:8 Ap '42
Stovepipe forms speed winter concreting; foundations for 150 barracks and officers' quarters at three New England projects. il Eng N 129:346-7 S 10 '42
Taking full advantage of sliding forms gains speed and economy. S. W. Galloway. il Concrete 50:2-3 S '42

Joints

What contraction joint in a reinforced concrete wall. J. W. Kelly; L. H. Tuthill. Am Concrete Inst J 14:65-6 S '42

Repair

C.N.R. uses new method of repairing concrete and masonry structures. E. J. Napier. il Roads & Bridges 80:25-7+ S '42
Repairing a cracked concrete flume without stopping water service. diag Eng N 127:878 D 18 '41

Standards

Proposed recommended practice for measuring, mixing and placing concrete. diags Am Concrete Inst J 13:93-117 N '41; Discussion. 13:sup120^1-120^4 Je '42
Proposed recommended practice for use of metal supports for reinforcement. diags Am Concrete Inst J 13:173-6 N '41

CONCRETE construction, Subaqueous
Concrete in sea water; a revised viewpoint needed. H. M. Hadley. il Am Soc C E Proc 67:33-46 Ja '41; Discussion. 67:152-3, 687-90, 918-22, 1150-6, 1456-60, 1757-8, 1893-1909 Mr-Je, O-D '41
Evolution of tremie-placed concrete dry docks. F. R. Harris. il diags Civil Eng 12:309-12 Je '42
Navy drydocks make construction history. il(insert) Eng N 128:472 Mr 26 '42
Navy graving dock built offshore in the dry; dredging, wells, pumps, etc. used to dewater site. E. C. Seibert. il diag Eng N 127:871-4 D 18 '41
Precast concrete jetties create beaches and prevent shore erosion. S. M. Wood. il diags Concrete 50:2-4 Ag '42
Putting a river underground; pressure conduit to carry the Park river underground through Hartford, Conn. il diag map Eng N 128:180-3 Ja 29 '42
Sand fill reduces weight of bridge pier. il diags Eng N 129:296-8 Ag 27 '42
Stopping leakage under Hales Bar dam. C. H. Vivian. il diags Comp Air M 47:6749-55 Je '42

See also
Bridges—Foundations and piers
Dams, Concrete

CONCRETE construction, Underground
Air-raid shelter for fifty people; Windham Center, Conn. il diags Eng N 128:904-5 Je 4 '42
Four-story underground parking space in downtown San Francisco. il diags Eng N 127:714-16 N 20 '41
Parking space four stories down; garage under San Francisco's Union square. il Eng N 129:520-1 O 15 '42
Storage cellars of unreinforced concrete offer opportunity to contractors. il diags Concrete 50:14-15 Jl '42; Same. Am Bld 64:42-3 Jl '42

See also
Concrete piling

CONCRETE construction in mines
Selling block to the coal mines; Chartiers cinder block co. B. Nordberg. il Rock Prod 45:64, 66+ S '42
Use of gunite in mines. C. Dobell. Can Min J 63:513-14 Ag '42
Waterproofing of concrete structures. J. F. Cameron. Can Min J 62:834-5 D '41

CONCRETE construction in winter
Building standardized bridges for a county. J. F. Mollenkopf. Pub Works 73:26-7 Jl '42
Fast foundations in frozen ground. il Eng N 128:853 My 21 '42
How high-early-strength cement simplifies winter concreting. Concrete 50:24-5 O '42
How new concrete work is protected during cold weather. il Concrete 49:20+ D '41
Laminated decking speeds pier construction and protects deck concreting in winter. il diags Eng N 128:976-9 Je 18 '42
Placing concrete in cold weather; calcium chloride protects concrete at much lower temperature than formerly thought possible. J. A. Knight. Roads & Bridges 80:43, 96, 98 O '42
Rapid hardening is urgent in military and winter work. Concrete 50:44 Mr '42
Stovepipe forms speed winter concreting; foundations for 150 barracks and officers' quarters at three New England projects. il Eng N 129:346-7 S 10 '42

CONCRETE dams. See Dams, Concrete

CONCRETE domes. See Domes, Concrete

CONCRETE feeding floors. See Feeding floors, Concrete

CONCRETE floors. See Floors, Concrete

CONCRETE flumes. See Flumes, Concrete

CONCRETE footings. See Footings, Concrete

CONCRETE handling
Cableway system of distributing concrete found ideal on big dam project; Shasta dam. il plan Concrete 50:2-4 F '42
Internal stopper for dump bucket handling concrete. Eng N 128:44 Ja 1 '42
Methods of handling and placing concrete at Shasta dam. C. S. Rippon. il plan Am Concrete Inst J 14:1-8 S '42

See also
Concrete placing

CONCRETE houses
Ballyhooed balloon; concrete four-room house based on a dumbbell floor plan and built on balloons, Falls Church, Va. il Arch Forum 75:421 D '41; Arch Rec 90:22, 108 D '41
How concrete masonry conserves scarce materials. diag Concrete 50:11 O '42
Incendiary-proof houses; precast concrete slabs used in California. A. R. Boone. il Rock Prod 45:124, 126 Ja '42
Inflated rubber forms used to construct experimental igloo houses. il Eng N 127:757 N 27 '41
Low-cost concrete houses for war workers. plans Concrete 50:10-11 O '42
Materials for $6,000 concrete masonry defense house will get priorities; plan. Concrete 49:11 D '41
Modernizing housing in Latin America; English and Spanish text. G. W. Hoffmann. il Rock Prod 45:77-8 My '42
Pennsylvania war workers well housed in concrete masonry buildings. il Concrete 50:17+ Jl '42
Precast slabs for housing, Alexandria, Va. il diags Arch Rec 91:58 Mr '42
Precision concrete for 194x. il diags Arch Forum 77:136-7 S '42

CONCRETE houses—*Continued*

Realtor-builder's experience with concrete masonry. G. S. Clarke. Concrete 50:18, 20 Ap '42

Rubberized cotton fabric balloons used in construction of defense homes; used as forms for concrete; Falls Church defense homes project. il Rubber Age 50:189-90 D '41; Same cond. Concrete 50:8 Ap '42

CONCRETE industry

Concrete mix in sacks. A. Avril. il Rock Prod 45:92-6 O '42

Repair and conversion into smaller units offer market in private home building. Concrete 50:20-2 S '42

See also

Concrete products

CONCRETE joists. See Joists, Concrete

CONCRETE lining

Canal lining cured by sprayed coats of white-pigmented compound. O. G. Boden. il Am Concrete Inst J 13:449-51 Ap '42

Chicago River subway crossing. G. S. Salter and H. J. Bartz. il Civil Eng 12:479-82 S '42

Concrete lining for ore cars. diag Eng & Min J 143:66 Mr '42

Concrete pumped downhill for a dam; control works of the earth and rock Indian Rock dam. C. M. Glines. il diag plan Eng N 128:863-5 My 21 '42

Constructing the Delaware aqueduct under the Shawangunk range. F. W. Stiefel. il Civil Eng 12:201-2 Ap '42

Delaware aqueduct. il diag Engineer 174:271-2, 290-2 O 2-9 '42

Distribute concrete by pipe line in tunnel for dam; outfall for Marshall Creek dam. C. Campbell. il diags Concrete 50:2-4+ Ja '42

Grouting tunnel lining on the Delaware aqueduct. il diags plan Eng N 128:19-21 Ja 1 '42

Lining a concrete reservoir. H. J. Cook. diag N E Water Works Assn J 56:70-5 Mr '42

Lining the world's longest tunnel; New York City's Delaware water supply system. il diag Eng N 127:792-7 D 4 '41

Machine methods for trimming subgrade and placing concrete canal lining. O. G. Boden. il Am Concrete Inst J 13:177-80 N '41

Merriman dam and Delaware aqueduct; construction progress and methods on water supply project for New York city. R. W. Armstrong. il Civil Eng 12:449-52 Ag '42

New airshaft at Old Ben no. 8 mine embodies modern ideas in construction. il diags Coal Age 47:71-2 Je '42

Observations on experimental malaria control drainage ditch linings. J. L. Robertson, jr. and others. Pub Health Rep 57:451-63, pl 1-8 Mr 27 '42

Shipyard uses basins instead of ways. il Eng N 129:293-5 Ag 27 '42

Transit mixers used effectively on the Contra Costa canal. O. G. Boden. il Am Concrete Inst J 13:269-72 Ja '42

See also

Concrete placing

CONCRETE masonry. See Concrete blocks; Concrete slabs; Concrete stone

CONCRETE masonry association, National. See National concrete masonry association

CONCRETE mixers

Concrete mixers; trailer truck and stationary. il Concrete 50:62-4 Ja '42

Concrete mixing machines; patent specification. diags Mech Handling 29:117 Je '42

Effect of grinding in the large mixers on aggregate grading at Hiwassee dam. W. R. Waugh. il Am Concrete Inst J 14:9-20 S '42

More production from truck mixers. H. W. Hunt. il Eng N 129:360-5 S 10 '42

Transit mixers used effectively on the Contra Costa canal. O. G. Boden. il Am Concrete Inst J 13:269-72 Ja '42

CONCRETE mixing

Cement dispersion and concrete quality. E. W. Scripture, jr. il Eng N 127:804-7 D 4 '41

Concrete mix in sacks. A. Avril. il Rock Prod 45:92-6 O '42

Concrete mixing plant for Friant dam. C. T. Douglass. il Civil Eng 12:191-3 Ap '42

Concrete production and control for Saugatuck dam. W. R. Miller. il Civil Eng 12:88-90 F '42

Determining proportions of concrete for desired compressive strengths. A. T. Goldbeck and J. E. Gray. Eng N 129:638-9 N 5 '42

Early strength concrete; the use of calcium chloride in concreting. (Bul. 28) 64p Calcium chloride assn, 4145 Penobscot bldg, Detroit '42

Mixing time for concrete. H. M. Hadley. Eng N 128:838 My 21 '42

Proportioning concrete materials by the unit layer method. J. C. Witt. chart Rock Prod 44:73-5 D '41

Proposed recommended practice for measuring, mixing and placing concrete. diags Am Concrete Inst J 13:93-117 N '41; Discussion. 13:sup120^1-120^4 Je '42

Proposed recommended practice for the design of concrete mixes; reported by ACI committee 613. Am Concrete Inst J 13:193-202 bibliog(p208) Ja '42; Discussion. 13:202-7, sup208^1-208^{23} Ja, Je '42

Some details in designing and mixing concrete. H. G. Collins. Am Concrete Inst J 13:276-8 Ja '42

See also

Concrete—Aggregate

Concrete mixers

Ready-mixed concrete

Add fine aggregate to improve mix; Eau Claire sand and gravel co. il Rock Prod 45:80+ My '42

Auxiliary ready-mixed concrete plant serves huge wartime project. il Concrete 50:11+ N '42

Big output of ready-mixed concrete for war industries in Lansing. il Concrete 50:18+ O '42

Cut cost of concrete deliveries; contract to protect ready-mixed producer when bad roads cause truck damage and delays. il Rock Prod 45:101-2 Ag '42

Effect of length of haul on ready-mixed concrete. S. Walker. Concrete 50:30 N '42

Efficient material handling methods; Erie materials co. il Rock Prod 45:89-90 F '42

Efficient operation is key to success of Des Moines ready-mix plant. il Concrete 49:14-15 D '41

France stone co. producing concrete to serve farmers and small communities. il Rock Prod 45:88-9 O '42

How to make quality concrete; discussion. Rock Prod 45:87-8+ Mr '42

Increase concrete sales by pumping on the job; Ready mixed corp. il Rock Prod 45:60 Jl '42

Install separate ready mixed plant to supply huge project. il Concrete 50:16+ Ap '42

Large depreciation reserve for ready mix equipment; Shaw coal and material co. L. Fanald. il Rock Prod 45:72 S '42

Marketing slag as ready mix; Cleveland slag co. builds modern batching plant as a service in supplying concrete to dealers. il Rock Prod 45:104-5 Ag '42

Modern design is big factor in success of ready-mix plant. il Concrete 50:26+ F '42

More production from truck mixers. H. W. Hunt. il Eng N 129:360-5 S 10 '42

Preference ratings for ready mix; proper procedure in securing equipment and repair parts. D. C. Gallagher. Rock Prod 45:35-6 Mr '42

Reaching farm markets for ready mix concrete. il Rock Prod 45:66, 68 Je '42

Ready mix concrete trucks have dual function; New enterprise stone & lime co. il Rock Prod 45:68-9 S '42

Ready-mixed concrete and mortar plant serves good demand in Atlanta. il Concrete 50:14+ Je '42

Ready-mixed concrete is big factor in defense construction. il Concrete 50:30, 32, 38 Ja '42

CONCRETE mixing—Ready-mixed concrete—*Continued*

Selling concrete by specification; Gottron bros. co. R. S. Torgerson. il Rock Prod 45:63+ Ap '42

Speed up defense work using ready mix; Battle Creek gravel co. R. S. Torgerson. il Rock Prod 45:117+ Ja '42

Use ready mixed concrete to make large pipe. il Rock Prod 45:134 Ja '42

Use ready mix practices for concrete block; Continental block co. il Rock Prod 45:100 Ag '42

War demands for ready mix. il Rock Prod 45:100-1+ Ja '42

CONCRETE panels

Architectural concrete on the new Naval medical center. H. C. Fischer. il diags plans Am Concrete Inst J 13:289-311 F '42

CONCRETE pavements. See Pavements, Concrete

CONCRETE piling

Boulder transmission line utilizes poured-in-place foundations. K. A. Reeder. il diags map Civil Eng 11:722-5 D '41

Concrete jackets make up for unequal pile lengths. il diags Eng N 129:544-7 O 22 '42

Concrete trestle-bridge construction on the Missouri Pacific railroad. R. P. Hart. il diags Engineering 154:161-3, 170, 201-2, 203, 210 Ag 28, S 11 '42

Drives 65-ft. concrete piles weighing 14½ tons; pile-trestle approaches; bridge-renewal job on the Norfolk & Western. il diags Ry Age 113:412-14 S 12 '42

Highway crossing, Morganza floodway, Louisiana. N. E. Lant. il Roads & Sts 85:30-1 Ag '42

Open steel caissons for cast-in-place piles; foundation for grain elevator, Buffalo, N.Y. G. B. Sowers. il Eng N 127:717 N 20 '41

Piled foundations. S. Packshaw. diags Mech Handling 29:85-6 My '42

Precast concrete jetties create beaches and prevent shore erosion. S. M. Wood. il diags Concrete 50:2-4 Ag '42

Three-lead driver speeds pier work. il Eng N 129:299 Ag 27 '42

Two-pipe pile jetting rig speeds driving on navy pier job. il Eng N 128:200 Ja 29 '42

CONCRETE pipes. See Pipes, Concrete

CONCRETE placing

Buggymobile for road and airport paving; mobile concrete-placing unit. il Roads & Bridges 80:44 Ag '42

Concrete pumped downhill for a dam; control works of the earth and rock Indian Rock dam. C. M. Glines. il diag plan Eng N 128:863-5 My 21 '42

Concrete pumped for elevated roadway deck; Gowanus elevated parkway in Brooklyn, N.Y. il Eng N 128:150-1 Ja 22 '42

Constructing the La Grande reservoir. E. H. Ford. il diags Pub Works 73:19-20 O '42

Construction plant and methods, Friant dam. D. S. Walter. il Civil Eng 12:261-2 My '42

Council Bluffs builds twin reservoirs of prestressed reinforced concrete. il Concrete 50:2-3 Ap '42; Same. Pub Works 73:11-12 Je '42

Crane and tower on flatcar expedite pouring concrete. il Roads & Sts 85:35 Mr '42

Distribute concrete by pipe line in tunnel for dam; outfall for Marshall Creek dam. C. Campbell. il diags Concrete 50:2-4+ Ja '42

Dropping concrete 50 ft. without segregation. il Eng N 128:193 Ja 29 '42

Drydock concreting by belt conveyor. il plan Eng N 127:736-8 N 20 '41

Evolution of tremie-placed concrete dry docks. F. R. Harris. il diags Civil Eng 12:309-12 Je '42

From mixer truck to the job by detachable conveyor. R. Baker. il Rock Prod 45:133 Ja '42

Gain high speed in concreting operations on piers of new Hartford bridge. I. Shapiro. il Concrete 49:2-3 D '41

How concrete was distributed on big stadium project. Concrete 50:6 Ag '42

How high a lift of concrete at one placing. J. W. Kelly; R. B. Young; L. H. Tuthill. Am Concrete Inst J 14:63-5 S '42

Increase concrete sales by pumping on the job; Ready mixed corp. il Rock Prod 45:60 Jl '42

Methods of handling and placing concrete at Shasta dam. C. S. Rippon. il plan Am Concrete Inst J 14:1-8 S '42

Planned formwork speeds construction; Fort Greene houses. il plan Eng N 129:302-4 Ag 27 '42

Pours foundation through 400-foot pipe line; foundations for a blast furnace. il Steel 111:159 S 14 '42

Proposed recommended practice for measuring, mixing and placing concrete. diags Am Concrete Inst J 13:93-117 N '41; Discussion. 13:sup120^1-120^4 Je '42

Pumping high-early-strength concrete on building construction. il plan Concrete 50:2-4 Mr '42

Putting a river underground; pressure conduit to carry the Park river underground through Hartford, Conn. il diag map Eng N 128:180-3 Ja 29 '42

Single-story concrete factory. il Eng N 129:587-8 O 22 '42

Three aids for concrete pouring. H. W. Young. il Comp Air M 46:6621-2 D '41

Work expedited by pumping concrete; foundations for blast furnace, Bethlehem steel company. il Blast F & Steel Pl 30:907 Ag '42

See also

Concrete—Vibration
Concrete construction, Subaqueous
Concrete lining

CONCRETE plants

Auxiliary ready-mixed concrete plant serves huge wartime project. il Concrete 50:11+ N '42

Efficient operation is key to success of Des Moines ready-mix plant. il Concrete 49:14-15 D '41

Ready-mixed concrete and mortar plant serves good demand in Atlanta. il Concrete 50:14+ Je '42

Selling concrete by specification; Gottron bros. co. R. S. Torgerson. il Rock Prod 45:63+ Ap '42

See also

Concrete construction
Concrete mixers
Concrete mixing—Ready-mixed concrete
Concrete placing
Concrete products plants
Roads, Concrete—Construction equipment

Equipment

Concrete mixing plant for Friant dam. C. T. Douglass. il Civil Eng 12:191-3 Ap '42

Efficient material handling methods; Erie materials co. il Rock Prod 45:89-90 F '42

From beer to concrete; batching equipment inside former brewery; Henderson concrete co. il Rock Prod 45:81-2 My '42

Marketing slag as ready mix; Cleveland slag co. builds modern batching plant as a service in supplying concrete to dealers. il Rock Prod 45:104-5 Ag '42

Modern design is big factor in success of ready-mix plant. il Concrete 50:26+ F '42

Preference ratings for ready mix; proper procedure in securing equipment and repair parts. D. C. Gallagher. Rock Prod 45:35-6 Mr '42

Speed up defense work using ready mix; Battle Creek gravel co. R. S. Torgerson. il Rock Prod 45:117+ Ja '42

CONCRETE products

Alert products manufacturer finds market for precast units for air base; drainage grids. diag Concrete 50:16+ O '42

Cast stone group takes up manufacture of substitute precast products. il Concrete 50:19 Jl '42

Concrete catch basin grates for airport drainage; also precast mullions and manhole fittings. il Rock Prod 45:87+ O '42

Concrete sash weights added to lines of products manufacturers. diags Concrete 50:24+ Ag '42

English bridges repaired with pre-cast concrete. Eng N 129:228 Ag 13 '42

CONCRETE products—*Continued*

Precast concrete catch-basin grates find market in airport runways. diags Concrete 50: 14-15 S '42

Precast concrete products replacing steel and cast iron. Concrete 50:26 Ag '42

Precast concrete shower bases; Badger concrete co., Oshkosh, Wis. also making concrete manhole fittings and milk cooling tanks. il Rock Prod 45:82-3+ O '42; Discussion. C. G. Walker. 45:107 D '42

Precast reinforced concrete and tile bath tub introduced in Columbus. il Concrete 50:26-7 N '42

War uses for concrete products. B. Nordberg. il diags plans Rock Prod 45:68-72+ O '42

See also

Concrete blocks
Concrete slabs
Concrete stone
Pipes, Concrete

Manufacture

Casting concrete curbing. B. Nordberg. il diags Rock Prod 45:120, 122+ Ja '42

Concrete products industry sets all time record. il Rock Prod 45:118-19+ Ja '42

Precast concrete framing units for navy warehouse. il diags Eng N 127:879-81 D 18 '41

Precast concrete manhole covers to help keep your products plant busy. diags Concrete 50:10-11 My '42

See also

Concrete blocks—Manufacture
Concrete products plants

CONCRETE products industry

Selling concrete in a clay market; Concrete manufacturing co. il Rock Prod 45:73, 76 My '42

This is concrete; from manholes and tanks to traffic signs and bathtubs. Business Week p62-4 Mr 7 '42

WPB urges products men to push their output for wartime construction. Concrete 50: 18+ N '42

Where products plants should get business through 1942. W. G. Kaiser. Concrete 50: 22, 24 Ja '42

Advertising

Builders of America is radio theme of Kansas City products program; Cinder concrete products, inc. il Concrete 50:20 Je '42

CONCRETE products plants

Making a porous concrete pipe; Jourdan concrete pipe co.; also fire-resistant pumice concrete masonry unit. W. B. Lenhart. il Rock Prod 45:64-6 Ap '42

Michigan plants diversify. il Rock Prod 45: 84-6 O '42

Employees

Training our youth for the future; National youth administration set up concrete block plant. E. M. Waggoner. il Rock Prod 45: 108-9 Ag '42

Equipment

Batcher to block machine without a hitch; Concrete specialties, inc. il Rock Prod 45: 69-70 Je '42

Defense doubles production in one year at Baltimore products plant; V. Paturzo bro. & son. il Concrete 49:18-19+ D '41

Fluorescent lighting for block plant; May sand and gravel co. il Rock Prod 45:68-9 Ap '42

1942 concrete industries exposition in print. il Concrete 50:57+ Ja '42

No waste motion in block plant; Cinder products corp. il Rock Prod 44:63-4+ D '41

One-man controls pipe manufacture; Charleston concrete pipe co. il Rock Prod 45:56, 58 Jl '42

Speed handling and delivery of blocks with highlift fork trucks. H. Paulson. il Concrete 50:18-19 F '42

CONCRETE pumping. See Concrete placing

CONCRETE research

Effect of change in moisture-content of the creep of concrete under a sustained load. G. Pickett. bibliog diags Am Concrete Inst J 13:333-55 F '42; Discussion. R. W. Carlson. 13:sup356^1-356^2 N '42

General observations on concrete scaling; organic admixtures showed satisfactory resistance. J. W. Kushing. il Roads & Sts 84:23-30 D '41

Influence of vibration, consistency, and grading of aggregate upon the design of concrete. G. W. Hutchinson. il Am Concrete Inst J 13:9-28 S '41; Discussion. 13:sup28^1-28^{15} Je '42

Pills for concrete; use of burnt clay pellets. Business Week p71 D 6 '41

Progress in the long-time study of cement performance in concrete. F. R. McMillan. il Am Concrete Inst J 13:441-6 Ap '42

Research proves value of precast concrete floor systems. E. W. Dienhart. diags Concrete 50:10-11+ Jl; 20-2+ Ag '42

CONCRETE reservoirs. See Reservoirs, Concrete

CONCRETE roads. See Roads, Concrete

CONCRETE roofs. See Roofs, Concrete

CONCRETE scaling. See Pavements, Concrete —Scaling

CONCRETE sewer pipes. See Sewer pipes, Concrete

CONCRETE ships. See Ships, Concrete

CONCRETE sidewalks. See Sidewalks, Concrete

CONCRETE silos. See Silos, Concrete

CONCRETE slabs

Concrete frames designed to save steel. J. J. Polivka. diags Eng N 128:981-4 Je 18 '42

Effect of deflection of the supporting beams on the bending moments in a uniformly loaded slab; abstract. A. Burns. Am Concrete Inst J 13:368 F '42

Incendiary-proof houses; precast concrete slabs used in California. A. R. Boone. il Rock Prod 45:124, 126 Ja '42

New precast floor slab; information on Flexicore. il diag Am Bld 64:50-1 Ag '42

Precast concrete in wartime building; with time-saver standards. il diags Arch Rec 91:55-62 Mr '42

Saving steel on heavy-duty concrete pavements by simplified design procedure. A. A. Anderson. diags Roads & Bridges 80: 30-1+ Ag '42

Slide rule for designing reinforced concrete slabs. W. N. Hazen. diag Civil Eng 11: 731-2 D '41

Some experience with prestressed steel in small concrete units. R. E. Dill. diag Am Concrete Inst J 13:165-8 N '41

Strengthening our highway bridges; integrating a concrete roadway slab with the steel floor system. E. L. Pavlo. il diags Eng N 128:339-42 F 26 '42

Studies of steel economy in concrete slabs and columns. A. J. Boase. Eng N 128:866-7 My 21 '42

War plant buildings without footings; unreinforced-concrete floor slabs, integral with wall sills and column pedestals. il diags Eng N 129:350-2 S 10 '42

Testing

Research proves value of precast concrete floor systems. E. W. Dienhart. diags Concrete 50:10-11+ Jl; 20-2+ Ag '42

Tests of monolithic brick pavement slabs. W. F. Kellermann. il Pub Roads 23:85-8, 97-8 Jl-S '42

CONCRETE staves

Observations on the durability of dry tamped silo staves. C. A. Hughes and K. A. Anderson. bibliog il Am Concrete Inst J 13:237-52 Ja '42; Discussion. 13:sup252^1-252^9 N '42

CONCRETE stone

Cast stone group takes up manufacture of substitute precast products. il Concrete 50: 19 Jl '42

CONCRETE stone—*Continued*

Concrete failure attributed to aggregate of low thermal coefficient; cast stone steps. J. C. Pearson. il Am Concrete Inst J 13:29-34 S '41; Discussion. 13:sup36^{1}-36^{27} Je '42

Specifications

Proposed specification for cast stone, reported by ACI committee 704. Am Concrete Inst J 13:313-15 F '42; Discussion. 13:sup 316^{1}-316^{7} Je; sup316^{9}-316^{11} N '42

CONCRETE tanks. See Tanks, Concrete

CONCRETE water tanks. See Water tanks, Concrete

CONCRETE-wood slabs

Attention turned to timber bridges by priorities on structural steel; composite timber-concrete decks. W. C. Hopkins. il diags Eng N 128:281-4 F 12 '42

CONCRETIONS

Concretions of the Thomson formation, Minnesota. G. M. Schwartz. Am J Sci 240:491-9, pl 1 Jl '42

CONDEMNATION of land. See Eminent domain

CONDENSATE wells. See Gas, Natural—Distillate wells

CONDENSATION

Condensation of vapors from noncondensing gases; a modified method of design. J. C. Smith. bibliog Ind & Eng Chem 34:1248-52 O '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

Statistical mechanics of change of state. H. Snyder. Phys R 62:63-7 Jl 1 '42

CONDENSATION, Chemical

Alkyl carbonates in synthetic chemistry; condensation with nitriles; synthesis of α-cyano esters. V. H. Wallingford, D. M. Jones and A. H. Homeyer. bibliog Am Chem Soc J 64:576-8 Mr '42

Bimolecular condensation of *p*-propenylanisole (anethole) under the influence of heat. N. R. Campbell. Chem Soc J p672-4 O '41

Cannabis indica; the isolation of 3′ : 4′ : 5′: 6′-tetrahydrodibenzopyran derivatives from pulegone-orcinol and pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

Catalytic dehydrogenation and condensation of aliphatic alcohols. V. I. Komarewsky and J. R. Coley. bibliog Am Chem Soc J 63:700-2, 3269-70 Mr, D '41

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

Condensation of *o*-phenylenediamine with ethyl acetoacetate. W. A. Sexton. Chem Soc J p303-4 Ap '42

Condensation of some secondary aliphatic alcohols with benzene in the presence of aluminum chloride. R. C. Huston and I. A. Kaye. bibliog Am Chem Soc J 64:1576-80 Jl '42

Condensation products of ketene with ketones. B. H. Gwynn and E. F. Degering. bibliog Am Chem Soc J 64:2216-18 S '42

Condensation reactions; alkylidene cyanoacetic and malonic esters. A. C. Cope and others. bibliog diag Am Chem Soc J 63:3452-6 D '41

Condensation reactions of isoquinaldaldehyde. R. S. Barrows and H. G. Lindwall. Am Chem Soc J 64:2430-2 O '42

Condensations by sodium. A. A. Morton and others. bibliog Am Chem Soc J 64:2239-53 O '42

Condensations; the acylation of the anions of certain alkyl esters with phenyl esters; a new method for the preparation of ethyl propionylacetate and certain related β-keto esters. B. Abramovitch and C. R. Hauser. bibliog Am Chem Soc J 64:2271-4 O '42

Condensations; various acylations and alkylations of the sodium enolates of aliphatic esters; methods for the syntheses of α,α-disubstituted β-keto esters and of certain other compounds. B. E. Hudson, jr. and C. R. Hauser. bibliog Am Chem Soc J 63:3156-62 N '41

Hydrogen fluoride as a condensing agent; reactions of carbon monoxide. J. H. Simons and A. C. Werner. Am Chem Soc J 64:1356-7 Je '42

Intermediates of pentryl analogs; chloronitroanilino alkanols. C. B. Kremer and M. Meltsner. Am Chem Soc J 64:1285-6 Je '42

Intramolecular condensations in polymers. F. T. Wall. Am Chem Soc J 64:269-73 F '42

Poly-condensation of α-amino acid esters; poly-condensation of alanine ethyl ester. M. Frankel and E. Katchalski. Am Chem Soc J 64:2268-71 O '42

Poly-condensation of α-amino acid esters; poly-condensation of glycine esters. M. Frankel and E. Katchalski. bibliog Am Chem Soc J 64:2264-8 O '42

Random reorganization of molecular weight distribution in linear condensation polymers. P. J. Flory. bibliog Am Chem Soc J 64:2205-12 S '42

Reactions of furan compounds; constitution of the coloured condensation product from furfural, aniline, and aniline hydrochloride. G. Williams and C. L. Wilson. Chem Soc J p506-7 Ag '42

Reactions with tetraphenylcyclopentadienone; condensation with cyclic 1,3-diene systems. O. Grummitt, R. S. Klopper and C. W. Blenkhorn. bibliog Am Chem Soc J 64:604-7 Mr '42

Self-condensation of acetyl*cyclo*hexene. E. R. H. Jones and H. P. Koch. Chem Soc J p393-5 Je '42

Statistics of intramolecular aldol condensations in unsaturated ketone polymers. P. J. Flory. Am Chem Soc J 64:177-9 Ja '42

See also

Phenol condensation products

CONDENSED milk. See Milk, Condensed

CONDENSERS

Economics of water conditioning for scale and corrosion control; with cost data. R. C. Rohrdanz. Pet Eng 13:135-6, 138 My '42

Evaporative condensers. C. N. Deverall. flow diag diags Refrig Eng 43:295-300, 361-5 My-Je '42

Installation and service instructions for refrigeration condensing units; proposed commercial standard. Heating-Piping 14:556 S '42; Testing for methyl chloride leaks; dangerous use of halide torch. 14:660 N '42

Support for reflux condensers. E. J. Benne. il Ind & Eng Chem Anal ed 14:264 Mr 15 '42

See also

Distillation apparatus

Design

Condensation of vapors from noncondensing gases; a modified method of design. J. C. Smith. bibliog Ind & Eng Chem 34:1248-52 O '42; Correction. 34:1495 D '42

Condenser-subcooler performance and design. A. P. Colburn, L. L. Millar and J. W. Westwater. bibliog diag Am Inst Chem Eng Trans 38:447-64 Je '42; Abstract. Chem & Met Eng 49:155-6 Je '42; Discussion. Am Inst Chem Eng Trans 38:464-8 Je '42

Testing

Ingenious sound room tests units on conveyer line; Westinghouse electric & manufacturing company. A. L. Atherton. il diags Mech Eng 64:799-801 N '42

Proposed A.S.R.E. standard methods of rating and testing water-cooled refrigerant condensers; A.S.R.E. circular no. 22. Refrig Eng 43:insert 324a-324f My '42 [ptd separately 15c]

CONDENSERS (electricity)

Added protection for condensers. Elec W 117:2238+ Je 27 '42

CONDENSERS (electricity)—*Continued*

Aerovox temperature compensating capacitors. R Sci Instr 12:615-16 D '41

Better power; capacitor installed on gold dredge. Gen Elec R 45:361 Je '42

Capacitor-booster costs less than $100. il diag Elec W 117:332+ Ja 24 '42

Capacitor-transformers. S. Silbermann. diags Engineer 173:51-2, 70-1, 90-2 Ja 16-30 '42

Capacitors aid machine plant; Geometric tool company. il Elec W 117:1497-9 My 2 '42

Capacitors alternated on night duty; Stedfast rubber company. il Elec W 116:1590 N 15 '41

Capacitors benefit Cambridge system. il Elec W 117:2260 Je 27 '42

Capacitors bolster street light circuit. Elec W 117:831-2 Mr 7 '42

Capacitors bring system relief; Northwestern electric co. C. McLean. il Elec West 89:68-70 S '42

Capacitors; effect on circuit performance when connected in series or in shunt. J. W. Butler. bibliog diags Gen Elec R 45:577-83 O '42

Capacitors for higher line thermal loading. J. W. Butler. Elec W 117:510 F 7 '42

Capacitors forestall feeder overloading. W. G. Robinson. il Elec W 117:2262 Je 27 '42

Capacitors help Attleboro lift power factor, cut peak. H. W. Thompson. il diag Elec W 117:1337-9 Ap 18 '42

Capacitors improve power factor on summer peak. W. L. Bryant. il Elec W 118:642+ Ag 22 '42

Capacitors increase capacity of metal casting shop. L. M. Duryee. il Elec W 117:341 Ja 24 '42

Capacitors increase generating capacity. H. M. Myers. Elec W 118:478+ Ag 8 '42

Capacitors preferred to machine reactive; pole top capacitors to supply shortage at Cahokia station. G. P. Gamble, R. C. Morris and A. W. Howell. il Elec W 118:935 S 19 '42

Capacitors save $6900 in first year of operation. Power Pl Eng 46:72 Ag '42

Compact control for capacitors. il Elec W 117:1023 Mr 21 '42

Compact layout for capacitor units. il Elec W 117:844 Mr 7 '42

Condenser discharge welding of aluminum alloys. J. W. Dawson and B. L. Wise. il Welding J 20:857-64 D '41

D.c.-a.c. correlation in dielectrics. J. B. Whitehead and G. S. Eager, jr. bibliog il diags J Ap Phys 13:43-9 Ja '42

Discharge voltage and return voltage curves for absorptive capacitors. B. Gross. Phys R 62:383-7 O 1 '42

Factors contributing to improving electric service by means of high-speed switching and utilization of stored energy. J. T. Logan and J. H. Miles. il Elec Eng 60: Trans 1012-16 D '41

Flicker reduction affords comparison of alternatives. J. W. Anderson. diag Elec W 118:284-7 Jl 25 '42

Generator of 1906 put to work as condenser. Elec W 117:1851 My 30 '42

How series capacitors are used to reduce peak demands of resistance welding machines. R. E. Marbury. il diag Steel 110:88, 91-2 F 23 '42

How to connect controls, meters and relays for synchronous condensers; wiring diagram. Elec W 118:1480 O 31 '42

Lower costs; why management studies how to improve power factor. F. W. Richart. Coal Age 46:54-5, 58 D '41

999 capacitors in one 15,000-kva. block. il diag Elec W 118:963 S 19 '42

Power factor and power factor economy; with cost data. R. E. Marbury. il Power Pl Eng 46:60-3 F '42

Power factor improvement. M. I. Alimansky and R. E. Insley. il Paper Tr J 113:37-8 D 25 '41; Same. Steel 110:62+ Ja 26 '42; Same. India Rubber W 106:141+ My '42

Protective device for series capacitor. il Elec W 117:670 F 21 '42

Reduction of system power and energy losses by power-factor improvement. F. M. Starr. Gen Elec R 45:165-71 Mr '42

Series capacitors correct welder voltage fluctuations. E. L. Harder and L. Gise. diags Elec W 117:1656-8 My 16 '42

Sewing alclad aluminum; spot welding by the condenser discharge method. W. E. Klingeman. il Iron Age 149:69-71 My 7 '42

Shunt and series capacitor use. W. E. Enns. diag Elec West 88:100-3 Je '42

Shunt capacitors ease municipal distribution. map Elec W 118:308 Jl 25 '42

Some measurements on the validity of the principle of superposition in solid dielectrics. H. Silva and B. Gross. Phys R 60:684-7 N 1 '41

Static capacitors save investment dollars. R. G. Hooke. Elec W 117:1008-10, 1180-2 Mr 21-Ap 4 '42

Tests and analysis of circuit-breaker performance when switching large capacitor banks. T. W. Schroeder, E. W. Boehne and J. W. Butler. il diags Elec Eng 61:Trans 821-31 N '42

To speed up capacitor mounting. il Elec W 118:153 Jl 11 '42

Var-wattmeter aids capacitor studies. diags Elec W 117:1026 Mr 21 '42

Vibration of piezoelectric plates. A. W. Lawson. Phys R 62:71-6 Jl 1 '42

What capacitor for welders. R. E. Marbury. il diag Factory Management 100:113-14 S '42

See also

Radio condensers

CONDENSERS (steam)

Air-cooled condenser solves feedwater problem. J. C. Albright. il Power 86:654-5 S '42

Chickasaw plant solves unusual condensing problems. E. C. Gaston. il diag plan Elec W 116:1717-19+ N 29 '41

Condenser retubing pays. J. B. Cotter. diags Power Pl Eng 46:94 Jl '42

Drilling, reaming, and tapping the thousands of holes in condenser tubesheets. il Mach 48:157 F '42

For condensers; one pump or two? H. R. Mueller. Power 86:475-7 Jl '42

Hydraulic ram cleans condenser tubes fast. diags Elec W 117:1869 My 30 '42

Prolonging life of condenser tubing. C. A. Gleason. Elec W 118:1435 O 31 '42

Propeller pump solves water problem; condenser water supply system at Morrow station. Elec W 118:949 S 19 '42

Steam condensers; factors determining design and operation. V. Walker. diag Elec R (Lond) 130:11-13 Ja 2 '42

Tropical plant condensing problems uniquely solved; use of ocean water for condensing and cooling. J. T. Farmer. diags plan Elec W 117:800-3 Mr 7 '42

What is the collapsing pressure of a condenser tube? il Power Pl Eng 46:101-3 Jl '42

See also

Steam engines
Steam plants—Equipment
Steam turbines

CONDENSERS, Radio. See Radio condensers

CONDUCTIVITY cells. See Electric conductivity

CONDUCTOMETRIC titration. See Volumetric analysis

CONDUITS

See also

Aqueducts
Culverts
Electric conduits
Pipe lines
Water conduits

CONES

Testing

Fixture for detecting concentricity. J. Kautsky. diag Am Mach 86:1229-30 O 29 '42

CONFECTIONERY
Vegetable oils in sugar confectionery; sweetening agents; solubilising starch. A. E. Williams. Chem Age (Lond) 47:362-4 O 24 '42

See also
Candy trade
Ice cream
Marshmallow cream

CONFEDERATED unions of America (Independent)
C.I.U. to C.U.A.; career of Confederated unions of America starts. Business Week p86+ O 10 '42
Independent labor group organized. Comm & Fin Chr 156:1554 O 29 '42
Matt Smith: independent. Business Week p78 Ag 22 '42
New federation; Conference of independent unions. Business Week p53-4 Ag 1 '42

CONFERENCE of executives of state and local trade associations
Proceedings of the sixth annual Conference held at the Ohio state university, March 24-25, 1942. 92p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '42

CONFERENCE of independent unions. See Confederated unions of America (Independent)

CONFERENCE of state and territorial health officers
Fortieth annual conference of the United States Public health service with the State and territorial health officers, Washington, D.C., March 25-26. Pub Health Rep 57:696-707 My 8 '42

CONFERENCE on theoretical physics
Annual Washington conference on theoretical physics, 8th, April 23-25. Science 95: 579-81 Je 5 '42

CONFERENCES
See also
Conventions
Sales conferences

CONFLICT of laws
Cases and materials on conflict of laws. E. E. Cheatham and others. 2d ed 1158p bibliog(pxlix-lxiii) $7 Foundation press, Chicago '41
Conflict of laws and life insurance contracts. C. W. Carnahan. 760p bibliog(p723-33) $12 Callaghan '42
Shorter selection of cases on the conflict of laws. J. H. Beale, jr. 3d ed 1032p $7 Callaghan '41

CONGLOMERATE
Spitzenberg conglomerate as a triassic outlier in Pennsylvania. L. Whitcomb. bibliog map Geol Soc Bul 53:755-64, pl 1-2 My '42

CONGO, Belgian

Industries and resources

Belgian Congo supplies civilization's weapons. H. W. Newman. il map For Comm W 7: 3-5+ Ap 25 '42
Production drive in Belgian Congo. Economist 142:796-7 Je 6 '42

CONGRESS. See United States—Congress

CONGRESS of American industry. See National association of manufacturers

CONGRESS of industrial organizations
AFL-CIO merger favored by members, leaders, but faces difficulties. Steel 110:49-50 Ja 26 '42
C.I.O. schism. Business Week p14 Je 6 '42
C.I.O. vs. Lewis; elections at Harbison-Walker plants. Business Week p92+ O 24 '42
Convention, Detroit, Nov. 17-22. Monthly Labor R 53:1452-3 D '41
How organized labor views the problems of transition. E. E. Ward. Ann Am Acad 222: 179-83 Jl '42
Labour situation at Kirkland lake. Can Min J 62:774-80 N '41
Labor's national emergency; C.I.O. support of Lewis. Business Week p15-16 N 22 '41
Miners quarrel with the CIO grows; organization changes approved. Coal Age 47:42 Jl '42
NDMB's quietus? if C.I.O. boycott continues, Board may be supplanted by new agency. Business Week p75 N 15 '41
President in message to CIO says labor disputes shall not interrupt defense. Comm & Fin Chr 154:1243 N 27 '41
Program and policies of the CIO. J. B. Carey. Ann Am Acad 224:25-31 N '42

See also
Dairy farmers union
Federation of architects, engineers, chemists and technicians
Steel workers organizing committee
United mine workers of America

CONGRESSMEN
Case against the 77th Congress; facts congressmen must explain in their 1942 campaigns for re-election. pors Fortune 25:72-5+ My '42

Pensions

Repeal Congress pensions. Comm & Fin Chr 155:960 Mr 5 '42
Vote pensions for retired Congressmen. Comm & Fin Chr 155:765 F 19 '42

CONIFERS
Cone-bearing trees of the Pacific coast. N. A. Bowers. 169p $2.50 McGraw-Hill '42

See also
Douglas fir
Pine
Spruce

CONJURING
How they do it by prestidigitation; Dunninger. il Sci Am 166:20-1 Ja '42
Who threw them? Dunninger plays the role of poltergeist by dexterous digital manipulation. A. D. Rathbone, 4th. il Sci Am 165: 324-5 D '41

CONNECTICUT
See also
Paleontology—Connecticut

CONNECTICUT company
Connecticut co.; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:533-4 N '41

CONNECTICUT general life insurance company
Company analysis. L. S. Fisher. Spectator (Life ed) 149:72-5+ Ag '42

CONNECTICUT light and power company
Financial and expansion program approved. Comm & Fin Chr 154:1491 D 13 '41
Preferred stock offered. Comm & Fin Chr 155:260-1 Ja 17 '42

CONNECTICUT valley
Late pleistocene and recent deposits in the Connecticut valley, Massachusetts. R. H. Jahns and M. E. Willard. bibliog pls diags maps Am J Sci 240:161-91, 265-87 Mr-Ap '42
Merchants and trade of the Connecticut River valley, 1750-1820. M. E. Martin. 284p bibliog(p269-74) pa 75c Dept. of history, Smith college, Northampton, Mass.

CONNECTING rods
Bearings for Diesel engines. A. B. Willi. il diags Mech Eng 64:439-48 Je '42
Connecting-rod angularity. C. B. Hudson. diag Power 86:594+ Ag '42
Connecting-rod bearing clearance indicator. diags Engineering 153:6 Ja 2 '42
How to inspect a Diesel engine. E. R. Spencer. diags Power 86:264-5 Ap '42; Same. Power Pl Eng 46:82 Ap '42
Silver for bearings. A. Bregman. il Iron Age 150:65-7 Ag 13 '42

Manufacture

Broaching speeds production of articulated connecting rods. il diags Steel 111:168 S 14 '42
Semi-automatic control operates standard machine tools. il Steel 110:82 Je 29 '42; Iron Age 150:63 Ag 27 '42

CONNECTING rods—*Continued*

Testing

Intermittently loaded sleeve bearings. R. W. Dayton, J. G. Lowther and H. W. Russell. diag Mech Eng 64:667-8 S '42

CONODONTS

Lower Pennsylvanian (Dimple limestone) conodonts of the Marathon region, Texas. S. Ellison and R. W. Graves, jr. bibliog pls Mo U Sch Mines & Met Bul tech ser v 14 no 3:1-21 '41

Ordovician conodonts of the Marathon basin, Texas. R. W. Graves, jr. and S. Ellison pls map Mo U Sch Mines & Met Bul tech ser v 14 no 2:1-26 bibliog(p15-16) '41

CONRAD, Frank, 1874-1941

Sketch. por Elec W News ed 116:1979 D 20 '41; Inst Radio Eng Proc 30:109 F '42

CONSCIENTIOUS objectors

Cat and mouse; clause in the new National service act; Quakers' contribution. Economist 141:782 D 27 '41

Conscripts of conscience. R. A. Hassler. 71p pa 25c Fellowship of reconciliation, 2929 Broadway, New York '42

Letters of a prisoner for conscience sake. C. Catchpool. 163p pa 2s G. Allen & Unwin, London '41

CONSCRIPTION. See Military service, Compulsory

CONSENT decrees

RCA, guinea pig; test case will determine whether consent decrees can be terminated. Business Week p16-17 S 12 '42

CONSERVATION of resources

American conservation in picture and in story. O. Butler, ed. rev ed 160p bibliog (p152-60) $2.50 Am. forestry assn, 919 17th st, NW, Washington, D.C. '41

Conservation of national resources; an educational approach to the problem. G. T. Renner. 228p $2.75 Wiley '42

Foundations of conservation education. 242p $1; pa 60c Nat. wildlife federation, Washington, D.C. '41

Story of conservation in North Carolina. P. Kelly and J. C. Baskervill. 386p Dept. of conservation and development, Raleigh, N.C. '41

Waste of wealth; its causes and costs; its conquest through conservation. H. H. Helbie and O. H. Reinholt. 72p bibliog(p72) 85c C. C. Nelson pub. co, Appleton, Wis. '41

See also

Gas, Natural—Conservation
Mines and mineral resources
Petroleum—Conservation
Raw materials
Regional planning
Water conservation
Water supply

Bibliography

Conservation of natural resources in the United States. A. L. Baden, comp. 51p U.S. Lib. of Congress, Division of bibliography, Washington '42

CONSERVATIVE party (Great Britain)

Churchill's Tory party. Fortune 25:104-5, 122-4 Ap '42

CONSIGNMENT selling

Help for Arnold; Supreme court's decisions in Masonite and Univis cases. Business Week p28 My 16 '42

CONSOLIDATED aircraft corporation

52-acre plant at San Diego fabricates parts for Consolidated bombers. il diag Arch Forum 75:423-5 D '41

Income, 1938-1940. Comm & Fin Chr 155:1406 Ap 6 '42

Tom Girdler's truce; with the new deal and labor. il Fortune 26:88-93+ S '42

CONSOLIDATED Edison company of New York

Annual report. Comm & Fin Chr 155:694-5 F 14 '42

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:598-9 S 19 '42

Consolidated Edison; some bright aspects. C. MacDonald. Barron's 22:18 Ag 10 '42

Dim-out causes loss in revenues. Comm & Fin Chr 156:1016+ S 21 '42

Great metropolitan utility company prepares for war. J. B. Walker. Pub Util 29:818-20 Je 18 '42

Reappraising Consolidated Edison. Pub Util 29:104-6 Ja 15 '42

Study in taxation; figures, 1929-1942. Mag of Wall St 70:349 Jl 11 '42

CONSOLIDATED electric and gas company

Annual report. Comm & Fin Chr 155:1831-2 My 11 '42

Corporate simplification. Comm & Fin Chr 154:1262 N 29 '41

Plans $9,400,000 issues of bonds. Comm & Fin Chr 156:602 Ag 17 '42

Sale of property approved by SEC. Comm & Fin Chr 155:1507 Ap 13 '42

Simplified structure and securities divestment are placed before SEC. Comm & Fin Chr 156:160 Jl 13 '42

CONSOLIDATED gas, electric light and power company of Baltimore

Annual report. Comm & Fin Chr 155:1917-18 My 18 '42

CONSOLIDATED oil corporation

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1597-8 Ap 20 '42

CONSOLIDATED schools

Community school, College Station, Texas. il plans Arch Rec 90:66-7 D '41

CONSOLIDATED statements

Cintas v. American car and foundry co.; summary of accounting affidavits filed on behalf of the company. J Account 74:380-3 O '42

Consolidated and separate statements. J Account 74:293 O '42

Treatment of subsidiaries in consolidated statements. J Account 73:383-4 Ap '42

CONSOLIDATED textile company

Consolidated Textile debentures an interesting speculation. Comm & Fin Chr 155:1854 My 14 '42

CONSOLIDATION coal company

Improved status for Consolidation Coal 5s, 1960. Barron's 22:19 My 25 '42

CONSTELLATIONS

See also

Pleiades

CONSTIPATION

Help your doctor to help you when you have constipation. W. C. Alvarez and others. 59p Harper '42

CONSTITUTIONAL law

Limits of legislative delegation. J. Hart. bibliog Ann Am Acad 221:87-100 My '42

CONSTITUTIONS

Indexes

Topical index to national constitutions. R. C. Spencer and P. C. Spencer. 84p bibliog(p9-14) pa $1 Am. acad. of political and social science, 3457 Walnut st, Philadelphia '42

CONSTRUCTION camps

Accident-free erection of 104-mile, 138-kv. line; field safety and medical programs at portable construction camps. G. I. Page. il Elec W 117:1661-3 My 16 '42

Camp life at Shasta. V. P. May. il Civil Eng 12:7-9 Ja '42

Construction at outlying bases; living and working conditions in Newfoundland, Bermuda, Jamaica, Puerto Rico, Antigua, St Lucia, Trinidad, and British Guiana. E. Reybold. il Eng N 128:109-11 Ja 15 '42

Demountable housing for defense workers; Tennessee Valley Authority portable dormitories and recreation building. il diags plan Am Bld 64:76-7 Mr '42

CONSTRUCTION equipment

Changing pattern of industry; the iron and steel, heavy construction, and shipbuilding industries. il Adv & Sell 35:38+ O '42

Construction equipment sale and rental placed under strict federal control. Eng N 128:760 My 7 '42

CONSTRUCTION equipment—*Continued*

Construction machinery purchases to be placed on A-1 priority basis by WPB. Eng N 128:581 Ap 16 '42

Equipment for speed and profit in airport construction. J. C. Coyle. il Pub Works 73:25-6+ Ap '42

Federal regulations for construction equipment interpreted. Roads & Sts 85:40 Jl '42

Idle construction equipment will be drawn into war work. Eng N 129:201 Ag 13 '42

Machine methods for trimming subgrade and placing concrete canal lining. O. G. Boden. il Am Concrete Inst J 13:177-80 N '41

Materials handling for Santa Fe dam. il diags map Eng N 129:434-7 S 24 '42

Organization of Construction machinery branch of War production board. Roads & Sts 85:79-81 Mr '42

Three aids for concrete pouring. H. W. Young. il Comp Air M 46:6621-2 D '41

Used construction equipment order as amended Sept. 28. Roads & Sts 85:53+ O '42

WPB equipment survey. L. Levenson. Eng N 128:764 My 7 '42

See also

Cableways
Concrete plants
Cranes, derricks, etc.
Excavating machinery
Hoisting machinery
Roads—Construction equipment

also Associated equipment distributors

Cleaning

Cleaning construction equipment. R. W. Mitchell. Roads & Sts 85:66 Ag '42

Maintenance and repair

Equipment maintenance on huge earth job; operation of 376 pieces of heavy equipment on a 6,000,000-cu. yd. dirt-moving job at War department office building, Arlington, Va. il Eng N 129:34-6 Jl 2 '42

Getting the most from shovels and cranes; suggestions from manufacturers include: warnings against counterweights, hints on speeding excavation by use of smaller buckets, and directions for proper methods of shovel bucket filling. il Eng N 129:176-8 Jl 30 '42

Making equipment last longer. il Eng N 128:871-2 My 21 '42

Repairing by welding and brazing; Builders-Providence, inc., Providence. D. Duffney. il Factory Management 100:146-7 Ag '42

War job maintenance plan conserves vital construction machines; maintenance of 482 mobile machines. il Eng N 129:116-17 Jl 16 '42

Manufacture

Earnings in the construction-machinery industry. H. R. Hosea and others. Monthly Labor R 55:117-23 Jl '42

Rental prices

Equipment rental prices issued by OPA. Roads & Sts 85:66-9 My '42

Equipment rental rates. Eng N 128:716 Ap 23 '42

OPA clarifies construction equipment rental and operation charge ceilings. Eng N 129:535 O 22 '42

CONSTRUCTION schedules. See Building—Rapid construction

CONSUMER-retailer council, National. See National consumer-retailer council

CONSUMERS

A.N.A. study punctures grade labeling charges. Ptr Ink 197:61-2 D 12 '41

Consumer education; a working outline of a course for secondary schools. F. Parker. rev ed 75p pa $1 Frank Parker, 1737 Chestnut st, Philadelphia '42

Consumers and the market. M. G. Reid. 3d ed 617p bibliog(p582-99) $3.85 Crofts '42

Facts for an effective consumer standards program. W. B. Floyd. Ind Stand 13:217-20 S '42

Going local; war conditions open way for National council to put its consumer-retailer relations program on city-by-city basis. Business Week p50+ Mr 28 '42

Impact of national defense on the consumer. 44p Personal loan league of Pennsylvania, 12 S. 12th st., Philadelphia '41

Miss Elliott & co. Business Week p77-8+ D 6 '41

Mrs America revises her standard of values. A. R. Hahn. Sales Management 50:38 My 1 '42

National consumer federation organized at CU conference. P. H. Erbes, jr. Ptr Ink 199:11-12+ Je 19 '42

N.Y. consumer bureau would be a pooh-bah. Oil Paint & Drug Rep 141:3+ Mr 2 '42

OPA establishes consumer centers of information. Sales Management 50:33-4 Ap 20 '42

Rôle of management in relation to consumer satisfaction. J. W. Young. J Business 14:1-10 pt 2 O '41; Same. il Dun's R 50:7-10+ Mr '42

Science education in consumer buying. G. L. Bush. 228p bibliog(p208-23) $2.35 Teachers college '41

Science in the service of the consumer. 92p Consumers union of United States, New York '41

Using dollars and sense; consumer economics. O. R. Floyd and L. B. Kinney. 314p $1.40 Newson & co, New York '42

What consumers can do. Consumers' Research Bul 9:2+ Je '42

What consumers really think about advertising. D. Starch. Ptr Ink 200:26-7 Jl 24 '42

See also

Consumption (economics)

Bibliography

Consumer education; an annotated bibliography. E. Dale and N. Vernon. 35p pa 25c Bur. of educational research, Ohio state univ, Columbus; Inst. for consumer education, Stephens college, Columbia, Mo. '41

CONSUMERS' union of the United States

National consumer federation organized at CU conference. P. H. Erbes, jr. Ptr Ink 199:11-12+ Je 19 '42

CONSUMPTION (economics)

Boom towns, and others; increased war expenditures and the effect on consumer purchasing power in 100 centers. map Dun's R 49:15-28 N '41

Civilian consumption at depression levels seen by National industrial conference board. Comm & Fin Chr 155:567 F 5 '42

Consumer rationing; diverse effects on industry and trade. J. D. C. Weldon. Mag of Wall St 69:529-31+ F 21 '42

Consumer spending, inflation and the wage earner in the United States. O. Nathan and M. Fried. bibliog Int Labour R 45:125-41 F '42

Creation of purchasing power; a study in the problem of economic stabilization. D. M. Wright. 251p bibliog(p233-41) $3 Harvard univ. press '42

Economics and the consumer. E. M. Andres and C. D. Cocanower. 553p $3.50 Houghton '42

40 billion dollars for discretionary spending. E. R. Smith. Ptr Ink 199:13-15+ Je 12 '42

How the Nation will spend its income; government will control consumers' pocketbook in first year of managed economy. J. W. Hazard. Barron's 22:20 Je 15 '42

More consumers and jobs after the war. J. K. Baillie. Trusts & Estates 73:603-4 D '41

Morgenthau urges cut in personal spending. Comm & Fin Chr 155:2211 Je 11 '42

$19 billions of new money; who is getting it and what are they doing with it? J. D. C. Weldon. Mag of Wall St 70:476-8+ Ag 22 '42

Priorities hit home; where shortages pinch consumer. Business Week p62+ Mr 21 '42

CONSUMPTION (economics)—*Continued*

Rationing consumer expenditure. S. Weintraub. Harvard Business R 21 no 1:109-14 [S] '42

Scarcities faced by retailers in 1941. W. Hayes and W. Mitchell, jr. Dun's R 50:5-8+ Je '42

Theory of consumer's demand. R. T. Norris. 206p $3 Yale univ. press '41

Trends in consumption of chemicals in industry. Chem & Met Eng 49:80-1 F '42

Uses of national income in peace and war. S. S. Kuznets. 42p pa 25c Nat. bur. econ. research '42

Using dollars and sense; consumer economics. O. R. Floyd and L. B. Kinney. 314p $1.40 Newson & co, New York '42

Vast post-war demand for goods expected; Chamber of commerce of the United States survey. Bankers M 145:227-8 S '42

Wise consumer. R. Barry. 47p pa 32c Row, Peterson and co, Evanston, Ill. '42

Wise spending; an introduction to consumer economics. S. B. Hamblen and G. F. Zimmerman. 448p $1.80 Harper '41

See also

Budget, Household
Buying habits
Consumers
Industry
Market surveys
Prices
Production
Purchasing
Quality of products

Statistics

Changing relation of consumer income and expenditure. R. B. Bangs. Survey of Cur Business 22:8-12 Ap '42

Consumer expenditures for selected groups of services, 1929-41. E. F. Denison. Survey of Cur Business 22:23-30 O '42

Consumer expenditures for services, 1929-1941; chart. Survey of Cur Business 22:3 Mr '42

Consumer purchases declining in terms of real goods; chart showing consumer expenditures, half-year totals, 1939-1942. Survey of Cur Business 22:2 O '42

Does consumption lag behind incomes? J. Tinbergen. R Econ Statis 24:1-8 F '42

Estimates of savings of American families; criticism of National resources committee volume, "Consumer expenditures in the United States." R. S. Tucker. R Econ Statis 24:9-21 F '42

Food consumption and nutrition in the Americas. R. M. Woodbury. Int Labour R 46:245-83 bibliog(p281-3) S '42

How to spend increased incomes; percentage increase in various consumer expenditures, 1934-1936-1940. Dun's R 49:37 O '41

Income and spending and saving of city families in wartime. A. C. Hanson and others. Monthly Labor R 55:419-34 S '42

Increased income payments; with charts showing disposal of consumer income, 1941 and first quarter of 1942. Survey of Cur Business 22:4-5 My '42

Money disbursements of wage earners and clerical workers in thirteen small cities, 1933-35. F. M. Williams and G. S. Weiss. diags U S Bur Labor Statistics Bul 691:1-173; 20c Supt. of doc. '42

Money disbursements of wage earners and clerical workers, 1934-36; summary volume. F. M. Williams and A. C. Hanson. U S Bur Labor Statistics Bul 638:1-401, pl 1-11; pa 55c Supt. of doc. '41

Monthly estimates of total consumer expenditures, 1935-42. W. C. Shelton and L. J. Paradiso. Survey of Cur Business 22:8-14+ O '42

Spending and saving of the nation's families in wartime. A. C. Hanson and J. Cornfield. Monthly Labor R 55:700-13 O '42

See also

Market statistics

CONTACT angle

Contact angle, its role in paper sizing. R. M. K. Cobb. bibliog il Paper Ind 24:598-9 S '42

Contact angles at liquid-liquid-air interfaces. W. Fox. bibliog il J Chem Phys 10:623-8 O '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

Reproducible contact angles on reproducible metal surfaces; contact angles of water against silver and gold. F. E. Bartell and P. H. Cardwell. bibliog il diags Am Chem Soc J 64:494-7 Mr '42

Reproducible contact angles on reproducible metal surfaces; interfacial contact angles between water and organic liquids on surfaces of silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1530-4 Jl '42

Role of surface chemistry and profile in boundary lubrication. J. T. Burwell. S A E J 50:453-6 O '42

Surface wettability of paper (angle-of-contact method); TAPPI suggested method T 458 sm-42. diag Paper Tr J 115:31-2 S 3 '42

CONTACT print method. See Mineralogical analysis

CONTAINER corporation of America

Annual report. Comm & Fin Chr 155:1119 Mr 16 '42

Prepackaged war; Container corp. will make more paper boxes than ever in its history. il Fortune 24:86-9+ D '41

Thumbnail stock appraisal. Mag of Wall St 69:202 N 29 '41

CONTAINER glass. See Glass containers

CONTAINER industries

Can industry outlook. Barron's 22:12 Ag 10 '42

Containers industry meets war conditions. il Manuf Rec 111:36-7+ O '42

Difficulties of can makers. Barron's 21:12 N 24 '41

Insecticide, disinfectant makers discuss priorities, containers, etc. Oil Paint & Drug Rep 140:7+ D 8 '41

New outlook for containers. J. C. Clifford. il Mag of Wall St 69:268-9+ D 13 '41

OPM forms can makers advisory committee. Oil Paint & Drug Rep 140:4 D 15 '41

Packages in war dress. Barron's 22:5 Ja 26 '42

Tin conservation studies underway. Oil Paint & Drug Rep 141:5+ Mr 16 '42

Unit packaging; abstract. J. Y. Lund. Chem Ind 50:646 My '42

See also

American can company
Paper board industry

Directories

Alphabetical listing of equipment and container manufacturers and dealers. Chem Ind 49:533-6 pt 2 (Buyer's guidebook) O '41

Equipment and container buying section; an alphabetical list of apparatus, containers, equipment, laboratory supplies and packaging and labeling machinery, with a buyer's guide of manufacturers. Chem Ind 49:537-607 pt 2 (Buyer's guidebook) O '41

Finance

How the can companies are adjusting to war. A. B. Wells. il Mag of Wall St 70:26-7+ Ap 18 '42

SEC issues reports 20 and 21 on more listed corporations. Comm & Fin Chr 156:376 Jl 30 '42

Great Britain

Britain on total war basis. D. V. Baker. il Mod Packaging 15:40-1+ Jl '42

London editor looks at the future. D. V. Baker. il Mod Packaging 15:56, 58+ Ja '42

CONTAINER system (freight handling)

Dry-ice containers secure new traffic. il Ry Age 111:799-800 N 15 '41

Frisco uses portable refrigerator containers. il Ry Age 112:618 Mr 21 '42

CONTAINERS

Alternate materials in product design. H. S. Van Vleet. Metals & Alloys 15:76-7 Ja '42

American Can develops new fiber container. il Oil Paint & Drug Rep 142:63 Jl 20 '42

Award winners, 11th annual all-America package competition. il Mod Packaging 15: 121-284 Ap '42

Chemical stoneware containers; recent developments. D. Eyles. diags Chem Age (Lond) 46:315-16 Je 27 '42

Conservation measures. il Mod Packaging 15: 39-42 Ja '42

Container outlook; W.P.B. packaging limitations will affect manufacturers of soaps, insecticides, etc. Soap & San Chem 18:19-22, 70 O '42

Container styles reduced from 50 to 11; Turco products, inc., Los Angeles and Chicago. Mod Packaging 15:104 My '42

Containers and the war program. M. F. Crass, jr. Chem Ind 50:348-50+ Mr '42

Containers for dog food. il Mod Packaging 15:78+ Je '42

Containers; small containers. L. Kiefer. Paint Oil & Chem R 104:75-6 N 5 '42; Abstract. Oil Paint & Drug Rep 142:54 N 2 '42

Effect of container on soluble silica content of water samples. C. A. Noll and J. J. Maguire. bibliog Ind & Eng Chem Anal ed 14:569-71 Jl 15 '42

Lines shift for the duration; Bristol-Myers co. il Mod Packaging 15:74-6 Jl '42

Monsanto licks package puzzle of 500 items squeezed by war. il Sales Management 51: 46+ Jl 15 '42

New containers conserving tin. Steel 111:49 S 28 '42

New plastic product may solve container closure problem. Cer Ind 39:28 Jl '42

Package changes in offing; new container materials. Ptr Ink 198:20 F 20 '42

Packaging catalog, 1942. 14th ed 641p $5; outside U.S. $6 Packaging catalog corp, New York '42

Packaging chemicals and chemical specialties in wartime; report of American management association conference. P. Slawter. il Chem Ind 50:644-8 My '42

Packaging problems for drugs; abstract. E. C. Merrill. Mod Packaging 15:68 My '42

Plastics competition award to Excitement, inc., div., Eisenberg & sons; perfume container. il Mod Plastics 19:130-1 N '41

Plastics competition award to Shulton, inc.; cosmetic containers of Catalin. il Mod Plastics 19:132-3 N '41

Silver linings for chemical containers. Chem Ind 51:564 O '42; Same abr. Sci Am 167: 207 N '42

Symposium on containers. Soap & San Chem 18:98-100, 105-9 Jl '42

Who's who in the Washington WPB on package and container problems; chart. Sales Management 50:24-5 My 15 '42

See also

Beer containers
Bottle caps and seals
Bottles
Cellophane
Container industry
Containers, Transparent
Cotton bags
Food containers
Glass containers
Labels
Milk containers
Oil cans
Oil containers
Package goods
Paper bags
Paper containers
Pressure vessels
Tanks
Tin cans
Tubes (containers)

Manufacture

Drawn rigid plastic containers and displays. il Mod Packaging 15:83-4, 86 Ja '42

Patents

U.S. patent digest. Published in monthly numbers of Modern packaging

Reuse

All-America package competition; award to General vault products co.; metal protective equipment. il Mod Packaging 15:176-7 Ap '42

Holiday dress for bakery products. il Mod Packaging 15:44-5+ F '42

Standards

Can we standardize containers? H. H. Hatch. il Comp Air M 47:6712-13 Ap '42

How three companies save with standard packages; abstracts from papers presented at the American management association's twelfth annual conference and exposition on packaging, packing, and shipping. C. K. Royce; H. F. Loughlin; A. W. First. Ind Stand 13:127-30 My '42

CONTAINERS (for shipping)

Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42

Award winners, 11th annual all-America package competition. il Mod Packaging 15: 215-19 Ap '42

Chemical container charge depends on user's profits. Oil Paint & Drug Rep 142:3+ O 19 '42

Cigar box problems; abstract. A. W. First. Mod Packaging 15:74+ My '42

Containers for war-time transport; features that provide for maximum length of service; steel drums and other containers. il Chem Age (Lond) 46:311-12+ Je 27 '42

Containers; large containers. E. E. Hoffman. Paint Oil & Chem R 104:76-80 N 5 '42; Same cond. Oil Paint & Drug Rep 142:53-4 N 2 '42

Engineered containers designed and constructed of wood. G. T. Walne. il Steel 110:98, 100 My 18 '42

Engineered containers for lock washers help streamline packing and shipping methods; Geo. K. Garrett co. il Steel 111:64+ Ag 31 '42

Great Britain and the container problem. Chem Ind 50:522 Ap '42

How to stack and load corrugated shipping boxes. diags Steel 111:81+ O 19 '42

Loose-Wiles aqua-proof seal for weatherproof solid-fibre shipping container. il Mod Packaging 16:42-4 O '42

Meeting the shipping container shortage; conservation, substitution, reclamation. 46p Am. management assn, New York '41

Nine steps that insure return of containers. J. M. Robins. Factory Management 100:95 My '42

OPM tests cheap box for lease-lend food; tight wrapper of treated kraft paper. il Food Ind 13:68 D '41

Our goal for 1942: a million pounds of cardboard saved; Goodrich went to work on package styles, eliminated unnecessary carton sizes and models. L. Hostetler. il Factory Management 100:90-1+ My '42

Packaging and container forum. R. W. Lahey. Published in monthly numbers of Chemical industries

Paint glass containers. E. A. Leveille. Oil Paint & Drug Rep 141:7+ Mr 23 '42

Paint in glass containers may use 3 carton types. Oil Paint & Drug Rep 141:7+ Ap 6 '42

Refrigerated containers for express shipments. il Sci Am 166:287 Je '42

Safe shipment of aircraft surfaces; steel containers. il Aero Digest 41:204+ O '42

Saving on crates; fewer shipping containers. Business Week p72+ Mr 14 '42

Shipping container weights. Glass Ind 22:541-2 D '41

Ten-step plan to stop waste; Hibbard, Spencer, Bartlett and company conserves supplies of paper, cartons, boxes. H. E. Fleming. il Am Business 12:22-4 F '42

Weatherproof cases. il Mod Packaging 16:37-41+ O '42

What woods are best for military shipping boxes? T. A. Carlson. il Mod Packaging 15:41+ F '42

See also

Barrels
Containers, Steel
Cotton bags
Food containers

Reuse

Re-using shipping cartons and other savings; abstract. F. F. Threadgold. Mod Packaging 15:68+ My '42

CONTAINERS (for shipping)—Reuse—*Cont.*
Shipping case seal which permits reuse. diag Food Ind 14:40-1 Ap '42
Wartime container plans bring marketing changes. Nat Pet N 34:8 Ap 22 '42; Same. Chem Ind 50:651-2 My '42

Standards

Chemical industry starts standardization of containers. R. W. Lahey. Chem Ind 49:819+ D '41
Manufacturing chemists association offers plan to standardize drums. Oil Paint & Drug Rep 140:7+ D 15 '41
Plans drafted standardizing containers used in industry. H. D. Ralph. Oil & Gas J 40: 25 Ja 1 '42
Standard shipping container weighs less, saves materials, cost, and freight. A. W. First. Ind Stand 13:130 My '42

Testing

Method of making rough-handling test of containers explained in detail; with special reference to the revolving drum and the incline impact testing device. E. Dahill. il diags Chem Ind 49:642-3 N '41

CONTAINERS, Glass. See Glass containers

CONTAINERS, Metal
Export licenses for drums. Chem Ind 51:80 Jl '42
Outlook serious for metal containers, will improve in 1943. L. V. Burton. il Food Ind 14:41-3 Ap '42

CONTAINERS, Paper. See Paper containers

CONTAINERS, Steel
Containers for war-time transport; features that provide for maximum length of service; steel drums and other containers. il Chem Age (Lond) 46:311-12+ Je 27 '42
Finishing steel containers. J. W. Gifford. il Metal Finishing 40:169-70 Mr '42
Lacquer-coated steel containers explored as tin can substitute. Steel 110:26-7 F 2 '42
Linings for steel drums and containers. M. W. Frishkorn. Chem Ind 50:56+ Ja '42
Metal drum exports further curbed. Oil Paint & Drug Rep 141:7+ Je 29 '42
New steel drums put under total allocation. Oil Paint & Drug Rep 142:5+ N 9 '42
Safe shipment of aircraft surfaces; steel containers. il Aero Digest 41:204+ O '42
Sheet steel for steel drums; new OPM orders. For Comm W 6:26 Ja 24 '42
Steel container advisory group formed by WPB. Oil Paint & Drug Rep 141:7 F 23 '42
Steel containers. D. C. Knapp. Soap & San Chem 18:98-100+ Jl '42; Abstract. Chem Ind 51:88+ Jl '42
Steel drum order; text. Soap & San Chem 18:57+ O '42
Steel drums and pails. G. D. Zuck. Soap & San Chem 18:108-9 Jl '42
Steel drums are barred for shipping many chemicals. Oil Paint & Drug Rep 142:7+ S 21 '42
Steel frame containers for aircraft parts. il Aviation 41:137 My '42
WPB limits steel drum use. R. W. Lahey. Chem Ind 51:563-4 O '42
Welded containers for chemicals; excellent results of ten years' test conditions. il Chem Age (Lond) 46:313 Je 27 '42

See also
Tanks, Steel

Painting

Limits drum painting. Chem Ind 51:80+ Jl '42

Prices

OPA sets ceiling on second hand steel drum prices. R. W. Lahey. Chem Ind 49:818-19 D '41
Price schedule; second hand steel drums. Iron Age 149:148+ Ja 1 '42
Reused steel drum prices ceiled by OPA. Oil Paint & Drug Rep 140:5+ D 1 '41

CONTAINERS, Transparent
Drawing transparent containers. H. K. Haviland. diags Mod Plastics 19:66-7, 104+ F '42
Ethylcellulose sheeting in package fabrication. F. C. Dulmage, jr. and T. A. Kauppi. il diags Mod Packaging 15:88, 90, 92 Ja '42
Green light for window carton. il Mod Packaging 16:51-3+ N '42
Show boxes give new life to candy sales. il Mod Packaging 15:64 D '41

CONTINENTAL baking company
Consolidated income account, 1938-1941. Comm & Fin Chr 155:2275 Je 15 '42

CONTINENTAL can company
Annual report. Comm & Fin Chr 155:916 Mr 2 '42
Another look. Mag of Wall St 70:649 O 3 '42
How the can companies are adjusting to war. A. B. Wells. il Mag of Wall St 70:26-7+ Ap 18 '42

CONTINENTAL-diamond fibre company
Another look. Mag of Wall St 71:133 N 14 '42

CONTINENTAL drift. See Continents

CONTINENTAL gas and electric corporation
Proposed transactions to be considered by SEC. Comm & Fin Chr 155:916 Mr 2 '42
Purchase of Kansas properties approved by SEC. Comm & Fin Chr 156:339 Jl 27 '42

CONTINENTAL insurance company of New York
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:644 O 3 '42

CONTINENTAL motors corporation
Annual report. Comm & Fin Chr 155:155 Ja 10 '42
Favored stocks priced from $1 to $10. Mag of Wall St Manual p8 Ap '42

CONTINENTAL oil company
Annual report. Comm & Fin Chr 155:1507 Ap 13 '42
Who's who in refining. Oil & Gas J 41:64 Ag 13 '42

CONTINENTAL steel corporation
Special situations for income and appreciation. H. F. Travis. Mag of Wall St 71:30 O 17 '42

CONTINENTS
Continental drift and plant distribution. D. H. Campbell. Science 95:69-70 Ja 16 '42
Resources of the continents. K. F. Mather. Science 96:125-7 Ag 7 '42

CONTRACT bonds. See Insurance, Surety and fidelity—Contract bonds

CONTRACTORS
Construction census mirrors the industry's operating pattern; market analysis underlining the importance of big business builders. map Arch Forum 75:338-40 N '41
Engineer in the contracting industry. A. J. Ackerman. il Civil Eng 12:91-4 F '42
How the defense program is affecting buying and selling contracts. C. R. Rosenberg, jr. Heat & Ven 38:48-50 D '41

See also
Construction equipment
Electric contractors

Accounting

Book-keeping for contractors. S. H. Withey. Electrician 128:313-14 Ap 3 '42
Vinson bill is unfair, dangerous; text of Defense contracts profit limitation act. Ptr Ink 197:25, 28-30 D 19 '41

Directories

Contractors, Canada; roads, bridges, airports. Roads & Bridges 80:98-110 Jl '42

CONTRACTORS' equipment. See Construction equipment

CONTRACTS
Cases on contracts. E. W. Patterson and G. W. Goble. 2d ed 1285p $6.50 Foundation press, 222 W. Adams st, Chicago '41

See also
Arbitration
Building contracts
Engineering contracts
Joint adventure
Labor contracts
Mortgages
Restraint of trade
Sales
Street lighting—Contracts

CONTRACTS—*Continued*

Great Britain

Case law; frustrated contract. Economist 142:890 Je 27 '42

Contracts: decision requires refund of deposit on impossibility of performance. For Comm W 8:20-1 Ag 1 '42

Impossibility of performance. R. G. McElroy. 255p $3.50 Macmillan '41

CONTRACTS, Cost-plus

Cost-plus-fixed-fee contracts. Nat City Bank p74 Jl '42

See also
Contracts, Government—Cost-plus contracts

Accounting

Accounting for a cost-plus-a-fixed-fee contract. J Account 74:452-3 N '42

Auditing costs of army contractors. J Account 74:281-2 S '42

CONTRACTS, Government

Adaptation to war; Lyon metal products plants are busy as result of effort to bring in high-priority business. Business Week p22+ Ap 25 '42

Advice to the molder. L. T. Barnette. Mod Plastics 19:34+ D '41

American ingenuity speeds war production. il Steel 110:38-41 My 18 '42

Amortization jam. Business Week p18 D 27 '41

Bid crackdown; price collusion on defense bids; indictments charging hat firms, unions with conspiracy. Business Week p26+ D 6 '41

Boom towns, and others; factual reports from 750 communities as to the impact of increased war expenditures. map Dun's R 49:15-28, 55-81 N '41

Bureau of contract information has an important place. D. Porter. Ins Field (Fire ed) 71:8-9+ Ja 1 '42

But what's to become of all the salesmen? Lyon metal products lets them dig for war orders. il Fortune 25:84-7+ My '42

Campaign for war business; Cruver manufacturing company, Chicago. il Mod Plastics 20:37-41 S '42

Certified aid; defense awards to alleviate priorities disemployment. Business Week p28+ D 6 '41

Coast forges a plan to help small business weather the war. E. Gidlow. Sales Management 51:36-9 Ag 1 '42

Construction bids; army is working to get back to competitive system. Business Week p30 Mr 21 '42

Contacts will get you contracts. il Steel 110:30-3 Je 15 '42

Contract distribution offices of the Production division of the War production board. Oil Paint & Drug Rep 141:3+ Mr 30 '42

Contract questions frequently asked. Iron Age 148:88-9+ N 20 '41

Contracts, prime and sub. G. T. Trundle, jr. Am Mach 86:151-3 Mr 5 '42

Control of contractors' profits. Banking 35:17 N '42

Conversion, American industry's number one job. E. Whitmore. il Am Business 12:9-11, 44-5 Mr '42

Conversion in jig-time follows sales approach to Uncle Sam; Roper corp., Rockford, Ill. il Sales Management 51:58-9 Ag 15 '42

Converting a linoleum plant to produce shells, bombs, and aircraft parts; prime and subcontracts. Mach 48:113-16 My '42

Converting ceramic plants to war production Cer Ind 38:50, 52 Je '42; Same. Brick & Clay Rec 100:14-15 Je '42

Converting civilian production to war production. W. H. Wheeler, jr. Edison Elec Inst Bul 10:136-8+ Ap '42

Converting the small plant to war production. R. M. Garrison. Mech Eng 64:477-8 Je '42

Corps of engineers abandons formal competition on bids. Eng N 128:893 Je 4 '42

Cutting credit corners. H. Bratter. Banking 34:19-21, 68-9 My '42

Defense awards to under-industrialized areas increasing, says Conference report. Comm & Fin Chr 154:1313, 1321 D 4 '41

Defense brings credit problems. N. E. Paine, jr. Credit & Fin Management 44:12-14 Ja '42

Do you fully realize that this is a total war; converting your production facilities to handle war work. il Steel 110:38-41 Ap 6 '42

Drafting and operating under government contracts. il Steel 110:76, 79-80+ Je 8; 92, 95+ Je 15; 74-5 Je 22 '42

Dramatized sales plan sells Schick production facilities to Uncle Sam. L. M. Hughes. il Sales Management 50:32, 34 Mr 1 '42

Dubious promoters barred from defense production associations. Steel 109:22-3 D 29 '41

Follow these simple rules if you want to get government business. A. R. Boone. Sales Management 51:25-6 Ag 15 '42; Abstract. Management R 31:391-2 N '42

From stoves and ranges to steel lifeboats; Globe American corporation. il Am Business 12:14-15 F '42

Getting war contracts for a small plant; Hosdreg company, Huntington, Ind. C. H. Drew. Factory Management 100:99-100 Ag '42

Government contract problems. L. M. Cherne, ed. 954p $5 Research inst. of Am, 292 Madison av, New York '42

Government contract procedure and accounting. 948p $5 Prentice-Hall '42

Government contracts and contacts. il Arch Rec 91:42-3 My '42

Guidebook to war business; report to executives, with directory of army purchasing agencies. Business Week p25-40 Je 27 '42

Helped ourselves to war work; Fogel refrigerator company, Philadelphia. W. Fogel. Factory Management 100:99 S '42

Hints on obtaining war contracts. Sheet Metal Worker 33:26 O '42

How an A-E-M contract works; details of architect-engineer manager organization. Eng N 129:179-82 Jl 30 '42

How Cook Electric landed millions in orders from Uncle Sam; interview with W. C. Hasselhorn. il Sales Management 50:22-4 Je 15 '42

How one company is successfully tackling the war-production problem; Lyon metal products inc. Steel 110:74-6 My 4 '42

How Plomb laid the groundwork for huge sales to Uncle Sam. F. Kirwin. il Sales Management 51:69-71 Jl 1 '42

How to do business with Uncle Sam; summary of steps to take to get contract, and to get materials and capital to fill it. Am Mach 86:742m-742x Jl 9 '42

How to get an army contract. Manuf Rec 111:32+ Ja; 40+ F; 36 Mr '42

How to get small war contracts. J. W. Hazard. Barron's 22:3 Je 22; 3-4 Ag 10 '42

How to handle inspections in war production work. il Steel 110:75-6+ Je 1 '42

How to utilize facilities of small business for larger war production. D. L. Miller. Steel 110:61-2 Mr 16 '42

How war business is distributed. Business Week p22 N 7 '42

How we go get war work; Lyon metal products, inc. E. D. Power. il Factory Management 100:68-71+ My '42

If you can't do business, it's your own fault. R. H. Morris. Power Pl Eng 45:80-4 D '41

Keep the whistle blowing! Lyon metal products goes after defense orders. il Am Business 11:12-13+ D '41

Listing of major War department supply contracts by state, June 1940 through Sept. 1941, with Oct. 1941 supplement. 90p Office for emergency management, Div. of information, Washington, D.C. '42

Lyon Metal's all-out effort for war business gets results. L. Rhodes. il Ind Marketing 27:20-1+ My '42

Managed by U.S.? War department's ouster of Air Associates head. Business Week p18-19 D 6 '41

CONTRACTS, Government—*Continued*

Materials for a course in government contract problems, taken from the Business and defense coordinator of the Research institute of America. L. M. Cherne, ed. 894p pa $5 Research inst. of Am, New York '41

Michigan leads in major war contracts. E. L. Warner, jr. Automotive & Aviation Ind 87:17, 70+ S 15 '42

Minimizing risk in government contracts; abstract. J. R. Janssen. Management R 31: 317-18 S '42

New War scheduling board proposed in General Motors' warrant plan for production control. Iron Age 150:72+ Ag 27 '42

Procedure in bidding and building a lump-sum camp job. il Eng N 128:726, 730, 732 Ap 23 '42

Refrigeration and defense business; analysis of the war load carried by the industry in 1941 and 1942. D. L. Fiske. Refrig Eng 43:71-2+ F '42

San Francisco clinic helps small business win battle for survival; permanent exhibit and information clearing house. E. Gidlow. il Sales Management 51:22-4 Ag 15 '42

San Jose defense pool: what it is, and how it works. E. Gidlow. Sales Management 51:38-41 S 15 '42

Simplify procedure on major army engineering contracts. Eng N 128:387 Mr 12 '42

Small business given broader opportunity to aid in national effort. il Steel 110:225-7 Ja 5 '42

Some views on plastics in wartime; government contracts. A. Philipson. Mod Plastics 19:44-5+ Ap '42

Technical teams with war work; architectural-engineering groups. Arch Rec 91:36-7, 94 Je '42

They kept open; Studebaker dealers convert repair shops to war work. Business Week p61-2+ O 17 '42

Three types of contracts for 100-octane plants. Oil & Gas J 40:14-15 Ja 8 '42

Types and operations of defense contracts. M. S. Massel. J Account 73:45-53 Ja '42

U.S. as customer is much like customers in general; small business man must do intelligent and earnest selling. W. K. Smith. Ptr Ink 199:22, 26+ Je 5 '42

Unusual costs in war work. Mod Plastics 20: 69-70+ N '42

War construction projects from a contractor's viewpoint. Eng N 128:874 My 21 '42

War damage clause inserted in all engineer contracts. Eng N 128:233 F 12 '42

War production board outlines how small plants can get work. Marine Eng 47:102 Mr '42

War-production bottlenecks broken by brainwork. il Steel 110:38-41 Ap 13 '42

War work for small industries. Sheet Metal Worker 33:32+ Mr '42

Wartime accounting; government war contracts, wartime financial statements, income taxes, price control, and priorities and allocations. G. N. Farrand. J Account 73: 401-28 My '42

Wartime guides for your business; government orders and how to get them. W. H. Hillyer. Barron's 22:7 N 2 '42

Wartime guides for your business; what the government needs and where to negotiate contracts. W. H. Hillyer. Barron's 22:7-8 N 9 '42

War-time problems of a company standards department; General electric company. L. F. Adams. Ind Stand 13:164-6 Je '42

Wartime purchasing procedures. L. M. Cherne, ed. 632p $4 Research inst. of America, New York '42

What small plants can do to get war orders. H. Deas. Factory Management 100:103+ N '42

When the small business goes after war contracts; American well and prospecting company, Corsicana, Tex. C. N. Tunnell. il Am Business 12:14-15+ Je '42

Where to look for war work; ten suggestions. Am Business 12:32-3 Ap '42

Why we scrapped our war production plan; Los Angeles Chamber of commerce. H. W. Wright. il Am Business 12:34-6, 42-3 Ap '42

See also

Contracts, State
Priorities and allocations, Industrial
Purchasing, Government
Smaller war plants corporation
United States—War production board

Accounting

Advertising as government sees it; an interpretation; "green book" applies to cost-plus contracts. Ptr Ink 201:13-14+ O 9 '42

Allowable advertising fees in war contracts. Comm & Fin Chr 156:1437 O 22 '42

Army sifts contract costs; Chicago ordnance district's questionnaire. Business Week p15-17 Ag 1 '42

Auditing costs of army contractors. J Account 74:281-2 S '42

Comments on explanation of government contract costs. G. N. Farrand. J Account 73:510-15 Je '42

Cost estimating for government contracts. M. F. Thompson. N A C A Bul 23:1415-28 Jl 1 '42; Abstract. Management R 31:247-9 Jl '42

Costing of government contracts in England. J Account 73:536 Je '42

Determination of contract costs by the War department. J. W. McEachren. J Account 74:400-2 N '42

Explanation of principles for determination of costs under government contracts; text of handbook prepared by Accounting advisory branch of War production board [10c Supt. of doc.]. J Account 73:516-29 Je '42

Fact finding for War department Price adjustment board. M. C. Troper. J Account 74:423-32 N '42

General accounting office review procedure of war contracts. E. W. Bell. J Account 74:406-10 N '42

Government contract cost determination. Ptr Ink 199:26 My 22 '42

Navy cost inspection; auditing of war contracts. P. Grady. J Account 74:403-5 N '42

New guides to wartime advertising policy as set by government agencies. Business Week p74 O 17 '42

OK advertising for war contractors; Nelson explains difference and how to charge costs under fixed-price and cost-plus-fixed-fee contracts. Ind Marketing 27:48 N '42

Paper work in defense jobs; Packard's experience. R. G. French. il Am Business 11:20-2 D '41

Principles of cost for government contracts. Comm & Fin Chr 155:1872 My 14 '42

Profit limitations by Treasury directive; interpretation of T.D. 5000, how it controls cost plus accounting, and how it affects aviation earnings and securities. S. Altschul. Aviation 41:100+ O '42

Reasonable advertising to be allowed under war contracts. Ind Marketing 27:23 O '42

Renegotiation of war contracts; Accounting research bulletin no. 15. J Account 74:319-25 O '42

Selective audit; army's shortcut system. Business Week p26-7 S 5 '42

Some special features in the audit of war contract costs. J. S. Seidman. J Account 74:199-201 S '42

Subcontracting expands the internal audit program; Eclipse aviation division, Bendix aviation corp., Bendix, N.J. C. H. Martin. N A C A Bul 23:1049-61 Ap 1 '42

Trends in accepted accounting and their relation to cost accounting. M. E. Peloubet. N A C A Bul 23:835-47 F 15 '42

Types and operations of defense contracts. M. S. Massel. J Account 73:45-53 Ja '42

U.S. would listen to reason if advertiser groups spoke up; discrimination against advertising in connection with goods sold to government. E. Wolff. Ptr Ink 201:15-16 O 2 '42

Vinson bill is unfair, dangerous; text of Defense contracts profit limitation act. Ptr Ink 197:25, 28-30 D 19 '41

CONTRACTS, Government—Accounting—*Cont.*

Wartime accounting; government war contracts, wartime financial statements, income taxes, price control, and priorities and allocations. G. N. Farrand. J Account 73:408-17 My '42

What are costs? being redefined both in war contracts and in computation of taxes. Business Week p17-18 Je 13 '42

Assignment of claims

Position of surety under agreement; Assignment of claims act amendment does not subvert surety's rights. A. Foster, jr. East Underw 43:30 Ag 28 '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:315-22 O '42

Cost-plus contracts

Advertising as government sees it; an interpretation; "green book" applies to cost-plus contracts. Ptr Ink 201:13-14+ O 9 '42

Cost plus, a World war evil, returns. J. T. Flynn. Barron's 22:3+ Ag 31 '42; Abstract. Management R 31:355-6 O '42

Cost-plus criteria. Business Week p15-16 Ag 22 '42

Determination of contract costs by the War department. J. W. McEachren. J Account 74:400-2 N '42

General accounting office review procedure of war contracts. E. W. Bell. J Account 74:406-10 N '42

Government contracts to be renegotiated on a fixed price basis. Credit & Fin Management 44:32-3 S '42

Service charges in service contracts. Banking 35:63 Ag '42

U. S. would listen to reason if advertiser groups spoke up; discrimination against advertising in connection with goods sold to government. E. Wolff. Ptr Ink 201:15-16 O 2 '42

War housing for peacetime use; project of 350 dwelling units at Fort Benning, Ga. W. J. Henry. il diags plans Eng N 129:104-6 Jl 16 '42

Finance

Credit hazards in war industries. W. Becker. Credit & Fin Management 44:18-19+ S '42; Abstract. Management R 31:394-5 N '42

Easy arms credit; wide variety of financing aids. Business Week p75-6 Ap 4 '42

Federal Reserve board issues rules for financing of war contracts. Comm & Fin Chr 155:1542 Ap 16 '42

Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42

Financing defense contracts; abstract. B. D. Nash. Bankers M 143:461-2 N '41

Financing of contracts for war production; with text of order authorizing War and Navy departments and Maritime commission to enter into financing contracts. Fed Res Bul 18:298-301 Ap '42

Government-guaranteed loans to war plants; four months. Comm & Fin Chr 156:526 Ag 13 '42

How to do business with Uncle Sam; where to get money. Am Mach 86:742w Jl 9 '42

Industrial finance in war. Economist 143: sup3-4 S 19 '42

Opportunity in Regulation V. H. V. Odle. il Burroughs Clearing House 26:20-2+ Je '42

Our move; guaranteed war loans. W. R. Kuhns. Banking 34:75 Je '42

Producers' loans; War Department program uses government guarantee to extend credit. Business Week p77+ Ap 18 '42

Raising V funds; U.S.-guaranteed loans aid growing number of contractors. Business Week p93-5 Jl 25 '42

Regulation V gets started. H. Bratter. Banking 34:24-6 Je '42

This husky infant, Regulation V. K. R. Cravens. Banking 35:26+ N '42

Value of defense contracts for industrial facilities financed with government and private funds through November 1941; chart. For Comm W 7:23 Ap 11 '42

War financing; Regulation V. Fed Res Bul 28:424-7 My '42

WPB aids war financing. Comm & Fin Chr 155:1951 My 21 '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:306-42 O '42

Insurance aspects

A.M.A. insurance parley; war time problems. Nat Underw 46:19+ Je 4 '42; East Underw 43:33 Je 5 '42

Army bond terms purely war measure. M. Lewis. Nat Underw 46:67+ S 24 '42

Aspects of comprehensive insurance rating plan. C. J. Haugh. East Underw 43:34+ My 29 '42

Bay State sanctions war department plan. East Underw 43:32 Je 5 '42

Bonding again restricted by War department. Spectator (Property ed) 8:9 Ag 6 '42

Bulletin on government risks; Joint committee says deviations must be submitted for approval. East Underw 43:35 Mr 13 '42

Caminetti rules upon defense rating plans. East Underw 43:30 F 6 '42

Companies getting relief on war project premiums. East Underw 43:33 F 20 '42

Compensation insurance in war time; duties of the insurance advisor under the war projects plan. R. A. Braddock. Ins Field (Fire ed) 71:20-1+ O 15 '42

Contract bonds on army jobs about finished. East Underw 43:29 Je 19 '42

Defense contracts and itching feet. E. D. Johnson. Ins Field (Fire ed) 71:20-1 F 19 '42; Abstract. Nat Underw 46:27 Ja 22 '42

Explains recent cut in advisors' fees; abstracts. R. F. Hill. Ins Field (Chicago Conv Daily ed) 71:1+ S 23 '42; East Underw 43:24+ S 25 '42; Nat Underw 46:19+ S 24 '42

Foreign war risk assumed by U.S. Nat Underw 46:19 F 19 '42

Insurance activities in Washington cover many offices. J. C. O'Connor. Nat Underw 45:15+ D 4 '41

Insurance requirements of government contractors; war damage insurance discussion. J. A. Coleman and W. F. Lund. 22p Am. management assn, 330 W. 42d st, New York '42

Must supply water damage insurance. Nat Underw 46:2 O 29 '42

National defense contract bond rates cut by Towner bureau. East Underw 42:33 N 14 '41

New standardized insurance adviser's agreement. D. Porter. Ins Field (Fire ed) 71: 9-10 S 17 '42

New war contract bond setup gets good response. Nat Underw 46:19+ S 10 '42

Official bond schedule for navy. Nat Underw 46:19 F 12 '42

Official order revising insurance advisor's fees. East Underw 43:44 S 25 '42; Ins Field (Fire ed) 71:11-12 O 1 '42

Premiums overdue from U.S. cut into surplus showings. Nat Underw 46:18 Ja 22 '42

Prime contractor to buy insurance for subcontractors. Nat Underw 46:15+ Ag 13 '42

Producers jolted by proposed slash in insurance advisor's fees on war jobs. East Underw 43:24+ S 11 '42

Relieve sureties in renegotiated contracts. Nat Underw 46:13 Jl 2 '42

Revised scale of advisers' fees. Nat Underw 46:17 O 8 '42

Role insurance plays in defense effort. R. F. Hill. Weekly Underw 146:5+ Ja 3 '42; Abstract. East Underw 43:26+ Ja 2 '42

Surety men eye effect of excess war profits act. Nat Underw 46:20+ Je 11 '42

Towner bureau and War department agree on rates for contract bonds. East Underw 43:28 S 4 '42; Weekly Underw 147:485+ S 5 '42; Nat Underw 46:19+ S 3 '42; Credit & Fin Management 44:28+ O '42

U.S. navy insurance requirements embrace wide range of coverages. East Underw 42: 73 D 12 '41

CONTRACTS, Government—Insurance aspects —*Continued*

War department's comprehensive insurance rating plan. W. L. Clapp. East Underw 42: 91+ D 12 '41

War department's comprehensive rating plan. East Underw 42:56+ D 12 '41; Same. Management R 31:30-1 Ja '42

Weigh problems of the Hill plan. Nat Underw 46:19 N 5 '42

Labor problems

Bar NLRB from plants with secret war work. Comm & Fin Chr 156:463 Ag 6 '42

Birth certificates no longer required to prove citizenship for war jobs. Comm & Fin Chr 156:295 Jl 23 '42

Clay plants doing government work are subject to labor regulations. Brick & Clay Rec 101:19-20 O '42

Employment of girls on government contracts. Monthly Labor R 54:1328-9 Je '42

Handicapped workers under Public contracts act. Monthly Labor R 55:843-4 O '42

Navy labor staff; department swinging away from its stand-off attitude in disputes affecting its suppliers. Business Week p62-3 Ja 31 '42

Wage determinations under Public contracts act. Monthly Labor R 55:367 Ag '42

Laws and regulations

Appraising the Vinson bill. C. A. Baker. Civil Eng 11:741-2 D '41

Contractors on public work benefited by legal decisions; Callahan and Hirsch cases. G. R. Shields. Eng N 128:201-3 Ja 29 '42

Draft of bill permitting small business to participate in war production completed. Comm & Fin Chr 155:1156 Mr 19 '42

Executive order dealing with war contracts, December 27, 1941. Fed Res Bul 28:105-8 F '42

Executive order dealing with war contracts of Office of coordinator of inter-American affairs, Civil aeronautics administration, National housing agency, Veterans' administration, and Federal communications commission. F. D. Roosevelt. Fed Res Bul 28:432 My '42

Government contracts; extension of provisions of executive order to Board of economic warfare. F. D. Roosevelt. Fed Res Bul 28:990 O '42

Government indicts cable concerns on price plot; Department of justice action charging conspiracy on bids for navy cable. Elec W News ed 118:688 Ag 29 '42

House passes bill to aid small business. Comm & Fin Chr 155:2125 Je 4 '42

Informer loses; judgment won from Pittsburgh contractors is set aside by court. Business Week p32 Ap 4 '42

Informer socked; Arnold's asking court to throw out citizen's $315,000 case against contractors in Pittsburgh. Business Week p40-1 Mr 7 '42

Law of government defense contracts. T. W. Graske. 402p bibliog(p369-74) $7.50 Baker, Voorhis & co, New York '41

Place construction industry under price regulation. Eng N 129:613 N 5 '42

Priorities pinch, war orders rush not valid excuse for not performing contract. Nat Underw 46:19+ Ja 29 '42

SEC widens restrictions on defense disclosures. Comm & Fin Chr 155:27 Ja 1 '42

Senate approves aid for small manufacturing plants. Comm & Fin Chr 155:1448 Ap 9 '42

Set $25,000 salary limit in case of war contracts. Comm & Fin Chr 156:113 Jl 9 '42

Small plant safety advanced under the provisions of the Walsh-Healey public contracts act. Safety Eng 84:42 O '42

Supreme court holds states may tax defense contracts. Comm & Fin Chr 154:1219 N 27 '41

Supreme court in Bethlehem shipbuilding case rules that Congress can draft business. Comm & Fin Chr 155:745+ F 19 '42

Uncle Sam pays; ruling by Supreme court makes cost-plus contractors liable for state sales taxes. Business Week p20 N 15 '41

Urges that state taxes on U.S. defense contracts be permitted. C. L. Kades. Comm & Fin Chr 154:1425+ D 11 '41

WPB given power to waive anti-trust acts. Comm & Fin Chr 155:2216 Je 11 '42

Wide contract power extended government by executive order. Credit & Fin Management 44:31-2 Ap '42

Pooling

Dealers' life rafts; auto agencies of Denver bid for navy contract. Business Week p20 F 21 '42

54 national defense committees now at work in NACM; pooling arrangement in securing government contracts. Credit & Fin Management 44:28-9+ Mr '42

Four bid as one; Four V structural steel companies. Business Week p70-1 F 7 '42

Furniture's war; Grand Rapids plants pool for war orders. Business Week p62 Je 13 '42

How 19 small plants found war work contracts. A. R. Boone. il Am Business 12:14-16 My '42

Jobs for garages; pooling of shop facilities is urged upon auto dealers of Pennsylvania. Business Week p24 F 7 '42

Los Angeles's war pool. Business Week p68 F 7 '42

Machine shop pools on Pacific coast. C. F. Berry. Barron's 21:5 D 22 '41

New arms pool; New England small arms corporation. Business Week p86 Je 27 '42

North Penn plant pool on war orders stimulates 7 towns. T. E. Lloyd. il Iron Age 149: 81-3+ Ag 16 '42

Parts manufacturers pool production equipment; group of 25 key companies formed at Detroit. E. L. Warner, jr. Automotive Ind 85:19+ D 1 '41

Plan for organization of small manufacturers for participation in production for war. A. Rodriquez. J Business 15:49-55 Ja '42

Pool is born; Allentown program of joint action on war orders. Business Week p64-7 Mr 7 '42

Pool recipe; rules for getting defense contracts set by Hillman. Business Week p28+ N 22 '41

Small pool clicks; De Land, Fla. shows way. Business Week p20+ Jl 25 '42

Small St Louis firms pool for whopping war sub-contracts. Sales Management 50:34 Je 15 '42

Teamwork wins war contracts; San Jose plan, pool of small shops and manufacturers. il Am Mach 86:47-9 F 5 '42

War work for idle plants; auto part makers find jobs; metal working manufacturers committee. R. G. French. il Am Business 12:26-8 Ap '42

Ypsilanti bids for war work. R. G. French. il Am Business 12:9-11, 40 F '42

Renegotiation

Army studies re-negotiation of construction contracts. Eng N 129:141 Jl 30 '42

Case for renegotiation. K. G. Kramer. Barron's 22:10 S 28 '42

Change of rules? the services urge eight amendments to renegotiation law. Business Week p27+ O 10 '42

Changes relating to renegotiation of U.S. contracts outlined. Iron Age 150:114-15 N 5 '42

Commerce association urges action to repeal law for renegotiation of war contracts. Comm & Fin Chr 156:1456 O 22 '42

Contract renegotiation law changes hit snag. Oil Paint & Drug Rep 142:3+ O 12 '42

Fact finding for War department Price adjustment board. M. C. Troper. J Account 74:423-32 N '42

Formal regulations issued on contract renegotiation. Eng N 129:257 Ag 20 '42

Friendly treatment accorded manufacturers renegotiating war contracts. Steel 111:48-9+ N 2 '42

Government contracts to be renegotiated on a fixed price basis. Credit & Fin Management 44:32-3 S '42

CONTRACTS, Government—Renegotiation—*Continued*

Loosely-drawn renegotiation act works hardships on contractors. Steel 111:92-3 S 14 '42

No need to approach bankruptcy to prove your patriotism; renegotiation of contracts. M. K. Karker. Steel 111:40 N 2 '42

Profits in a vise; renegotiation puts limit on net before taxes but excess profit levy isn't eased. Business Week p14 Ag 15 '42

Renegotiate war contracts to bar excess profits. Comm & Fin Chr 155:1712 Ap 30 '42

Renegotiation; Congress accepts most of War department's amendments. Business Week p86-7 O 31 '42

Renegotiation of contract prices. T. H. Sanders. J Account 74:411-22 N '42

Renegotiation of contracts. G. R. Shields and H. J. Galloway. Eng N 129:424-5 S 24 '42

Renegotiation of war contracts; Accounting research bulletin no. 15. J Account 74:319-25 O '42

Renegotiation with U.S. nothing to fear; abstract. M. Karker. Ptr Ink 201:83 N 6 '42

Repeal of law governing renegotiation of war contracts urged by N.Y. Chamber committee. Comm & Fin Chr 156:1436 O 22 '42

Rules for renegotiation. Business Week p14-15 Ag 22 '42

Rules given on renegotiated contracts. Comm & Fin Chr 156:1192 O 1 '42

Sees danger in renegotiation of war contracts; abstracts. R. Seybold. Comm & Fin Chr 156:1181 O 1 '42; Steel 111:22 S 28 '42

Senate committee studies war contract renegotiation changes. Comm & Fin Chr 156:1177+ O 1 '42

Tax effect in renegotiation of war contracts; statement of policy of Bureau of internal revenue. J Account 74:479-80 N '42

This husky infant, Regulation V; renegotiation of contracts. K. R. Cravens. Banking 35:26+ N '42

Treasury establishes rules for return of excess war profits. Steel 111:23-4 S 28 '42

Vinson bill is unfair, dangerous; text of Defense contracts profit limitation act. Ptr Ink 197:25, 28-30 D 19 '41

War contract price readjustments to be primarily reappraisal of costs. Steel 111:35-6 Ag 24 '42

War contract renegotiation—how, when, why. Iron Age 150:92C-92D O 29 '42

Subcontracting

All utilities share in Canadian war effort; Public utilities wartime workshop board. J. K. Wilson. il Elec W 118:281-2 Jl 25 '42

Automotive industry intensifies its subcontracting in war production program. Automotive & Aviation Ind 86:36-7+ My 15 '42

Bomb box order keeps builder busy. il Am Bld 64:42-3 My '42

Contract by code; Stanley plan. Business Week p22+ My 9 '42

Conversion of Forry Laucks from safes and vaults to guns and shells. il Fortune 25:88-91, 153-4+ Ap '42

Conversion or shut down? il Steel 110:30-3 Je 8 '42

Defense leadership; how a 108-year-old Boston bank has pioneered in helping clients obtain defense work. R. B. Cox. il Burroughs Clearing House 26:11-13+ D '41

Easy contracting; new system of matching machines and jobs with simplified code. Business Week p41-2+ Je 20 '42

Farming out part of the work; Stewart-Warner corporation, Chicago. R. F. Stiles. Factory Management 100:98+ Ag '42

Five-man shop tackles precision work, develops into important sub-contractor. A. W. Jessup. Am Mach 84:466h My 14 '42

Forgotten man in defense. J. W. Collins. Chem & Met Eng 48:71-2 D '41

Gets into gun production rapidly by subcontracting 462 out of 471 parts; Oldsmobile. il Am Mach 86:588-91 Je 11 '42

Getting out the guns; prime contractor finds use of standards makes subcontracts click. T. R. Jones. il Ind Stand 13:160-2 Je '42

Handling war material sub-contracts efficiently; American machine and foundry co. H. L. Horton. Mach 48:147-50 Ja '42

Here are the reasons why you must convert your plant to war production. il Steel 110:22-4 Ap 27; 38-40 My 4 '42

How subcontracting can be made to work. il Factory Management 100:58-60+ Mr '42; Excerpts. Management R 31:205-6 Je '42

How WPB helps the subcontractor. L. V. Spencer. il Aero Digest 41:230, 233+ O '42

How we subcontract; Westinghouse electric & manufacturing company. G. P. Longabaugh. il Am Mach 86:271-4 Ap 2 '42

Idle tools work for Hitler; many small shops can make war products. J. Haydock. Am Mach 86:105-6 F 19 '42

In selling war business, easy picking days are gone; 15-point program for landing sub-contracts; Lyon metal products company, Aurora, Ill. P. H. Erbes, jr. il Ptr Ink 200:15-16+ Ag 14 '42

Is subcontracting the answer? L. L. Bollinger. Harvard Business R 20 no 2:171-83 [Ja] '42

Jobber helps build turbines; Lewis supply co. of Memphis, turning out worm gears and packing rings for turbines in U.S. Navy destroyers. Fortune 26:32 Jl '42

Mohawk Valley plan speeds production 55 per cent; advances delivery five months. Steel 110:87+ Ap 13 '42

Need a subcontractor? Manuf Rec 111:39 F '42 [cont monthly]

New machinery price schedule to give aid on subcontracts. Iron Age 149:108-10 My 21 '42

North American Aviation's extensive subcontracting program. il Aero Digest 39:168+ D '41

Obtaining war contracts by redesigning parts. T. I. Byrd. il Aero Digest 41:94, 96+ O '42

Organizing little plants for big production; Aircraft parts manufacturing association. J. Frost. il Aviation 41:108+ F '42

Outline of steps in seeking war production; lists of helpful agencies. Iron Age 149:86-7 Ja 1 '42

Pennsylvania Power plan aids small business in procuring defense business. N. F. Vidal. il Elec W 117:1003-5 Mr 21 '42

Plant problems in war production. F. B. Heitkamp. Power Pl Eng 46:49 S '42

Securing war work contracts is similar to obtaining peacetime orders; Baltimore enamel & novelty co. surveys local prime contractors for orders. A. F. Macconochie. il Cer Ind 39:40, 42+ S '42

Show 'em how; Link-Belt's new plant has farmed out 50% of its output in five months. Business Week p62-4 Ag 15 '42

Small town shops handle a $2,500,000 war contract, DeLand, Fla. B. O'Shea. il Am Business 12:12-13+ Je '42

Some of the problems involved in converting the plating industry. C. B. F. Young. Steel 110:70, 72+ Je 8 '42

Some points on sub-contracting in war material manufacture. Mach 48:178 Ja '42

South's all-welded ships; Ingalls shipbuilding corp. R. H. Macy. il Manuf Rec 110:22-3+ D '41

Spreading the work for victory; subcontracting gains momentum. Aviation 41:167+ My '42

Spring manufacturer awarded $306,000,000 in armor plate orders; company accepts responsibility for subcontracting to 15 former competitors. Steel 110:30 Mr 23 '42

Standard code speeds letting of subcontracts; Stanley plan. Ind Stand 13:112-13 My '42

Standards smooth the path of the subcontractor. W. L. Fenn. il Ind Stand 13:162-4 Je '42

Stanley subcontracting plan gets tryout. Am Mach 86:354j-354k Ap 16 '42

Subcontracting can speed war production. L. V. Ross. Elec West 88:33-5 My '42

Subcontracting expands the internal audit program; Eclipse aviation division, Bendix aviation corp., Bendix, N.J. C. H. Martin. N A C A Bul 23:1049-61 Ap 1 '42

CONTRACTS, Government—Subcontracting—*Continued*

Subcontracting helps speed the defense job. il Am Mach 85:1215-16 N 26 '41

Subcontracting plays major role in Curtiss-Wright production. J. F. Reinhart. il Aero Digest 41:98-100, 103 O '42

Subcontracting precise work; Federal products co. manufacture of special gage fixture; abstract. I. A. Hunt. Iron Age 150:67 O 22 '42

Subcontracting will win the war; methods of York safe & lock co. il Steel 110:46-9 My 11 '42

Subcontractors section. il Aviation 41:167+ My; 165-7 Je; 217+ Jl; 179-80+ Ag; 189-90+ S; 189+ O; 189+ N '42

Subcontracts for all; radio set makers. Business Week p15 Ap 18 '42

Successful city-wide sub-contracting program; nearly all of Hagerstown's factory labor is now engaged in aircraft production. il Aero Digest 41:222 O '42

Successful method of putting idle equipment to work on munitions. Mach 48:204 Ap '42

Teamwork for production; North American aviation, inc. R. Monroe. il diag Aviation 40:86-7, 96, 98 D '41

Test of Stanley subcontracting plan makes progress. Am Mach 86:466j My 14 '42

Textile war manual; how to get a subcontract. Textile World 92:90 F '42

The tougher they come. R. A. Foulke. Banking 34:22-4 My '42

Under-one-roof case against subcontracting. J. B. Hawley, jr. Fortune 25:91 Ap '42

Utilizing an effective subcontracting system; experiences of eleven Chicago companies. Factory Management 100:100-1+ Ag '42

Want sub-contracts for war merchandise? list of field offices of Division of contract distribution. Ptr Ink 197:57, 60-2 D 26 '41

Want sub-contracts? go after them! Standard gas equipment company. il Ptr Ink 201:24 O 16 '42

Wanted, subcontractors by these 13 companies; list with data on requirements. Iron Age 148:90 N 20 '41

Wanted: subcontracts! story of a metallurgical engineering shop. F. P. Peters. il Metals & Alloys 15:773-5 My '42

WPB considers country-wide adoption of Stanley plan. Iron Age 149:72+ My 14 '42

WPB creates field organization to speed subcontracting to smaller manufacturers. R. Le Grand. Am Mach 86:532g My 28 '42

What can I do to speed war production? F. B. Heitkamp. Steel 110:76+ My 25 '42

Where to go for assistance on priorities and subcontracts. Business Week p34-5 Je 27 '42

Your Uncle Sam is a busy man; converting plant facilities to war work. il Steel 110: 14-15 Mr 30 '42

See also

Industrial cooperation

also Canadian pulp and paper association—Wartime machine shop board

Germany

Subcontracting in German defense industries. H. Block. 21p bibliog(p20-1) Graduate faculty of political and social science, New school for social research. New York '42

CONTRACTS, Letting of

Corps of engineers abandons formal competition on bids. Eng N 128:893 Je 4 '42

Engineer as a negotiator. P. R. Elfstrom. W Soc E J 46:311-16 D '41

See also

Contractors

CONTRACTS, State

Court interprets bond law; rules Pitcher act in New York protects materialmen. Credit & Fin Management 44:22-3 S '42

CONTROL, Electric. See Electric control

CONTROL, Radio. See Radio control

CONTROL, Remote. See Electric control

CONTROL charts

Application of statistical methods to ordnance engineering. L. E. Simon. Am Statis Assn J 37:313-24 S '42

CONTROL equipment

Automatic control of rayon warp slashing. W. W. Humecky. il diags Rayon 23:276-8 My '42

Automatic control: opportunities in the post-war chemical industry. Electrician 128: 564-7 Je 5 '42

Automatic control problem. F. J. Van Antwerpen. il Ind & Eng Chem 34:387-91 Ap '42

Automatic level controllers. M. F. Behar. il diags Instruments 14:326-80 N '41

Automatic precision control; its application in the chemical industries. Electrician 129: 249-50 S 4 '42

Characteristics of hydraulic and pneumatic relays as energy-converting devices. H. Ziebolz. diags Instruments 15:340-5 S '42

Conserve control instruments in design of wartime plants, refiners urged. M. B. Miller. Nat Pet N 34 pt 2:R353-4 O 28 '42

Control makes great advances; forty years of progress. K. C. Logan. Pulp & Pa of Can 43:604-5 Jl '42

Control of direct-heated sulphite digesters. J. F. Inderdohnen. il diag Paper Tr J 115: 35-7 Jl 30 '42

Control problems. N. Minorsky. diags Franklin Inst J 232:451-87, 519-51 bibliog(p550-1) N-D '41

Controlling apparatus to eliminate waste of water in using the ordinary filter pump. F. E. Holmes. diag Ind & Eng Chem Anal ed 13:759-60 N 15 '41

Cycle timers on Houdry unit control board show how catalyst cases are functioning. il Nat Pet N 34 pt 2:R315 S 30 '42

How to make thermometers and control instruments last longer. E. F. Nordstrom. Power Pl Eng 46:104 O '42

How to select, install and maintain control equipment. E. H. Alexander. il Gen Elec R 45:387-91 Jl '42; Same. Marine Eng 47:144-8 Ag '42; Same. Paper Ind 24:495-8+ Ag '42; Same. Steel 111:84-5+ Ag 17 '42; Same. Aero Digest 41:217-18, 221+ S '42; Same. Eng & Min J 143:66-7 N; 71-2 D '42; Same cond. Am Mach 86:764-6 Jl 23 '42; Same cond. Food Ind 14:61-2 O '42; Same cond. Heating-Piping 14:597-9 O '42

Industrial gas controls as used in war plants. A. H. Koch. Am Gas J 156:26-8 Je '42

Instrumentalize for production. il Rayon 23: 171-5 Mr '42

Instrumentation and automatic control; Calco chemical division reports on engineering and maintenance of instruments for Bound Brook, N.J., plant. W. B. Heinz and W. T. Henrichson. il Chem Ind 50:210-13 F '42

Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42

Instruments in the pulp and paper industry. J. N. Franklin. Pulp & Pa of Can 43:306-10, 434-5+, 695-7, 817-20+ Mr, My, Ag, O '42 (to be cont)

Load control boosts station efficiency. il Elec W 116:1736 N 29 '41

Maintenance of control equipment in water purification works. A. A. Wood. Am Water Works Assn J 34:237-42; Discussion. R. A. McQuade. 242-6 F '42

Maintenance of control instruments in the pulp, paper, and paperboard industry. H. O. Ehrisman. Paper Tr J 114:92-3 Je 25 '42; Same. Paper Ind 24:426 Jl '42

New equipment; heat treating and processing controls. il Iron Age 149:67-8 Mr 5; 150:53-7 O 29 '42

OPC issues recommendations on use of refinery instruments. diags Oil & Gas J 41: 48-9 O 15 '42

Reporting what's new in equipment. il Chem & Met Eng 48:109-13 N '41

South District filtration project, Chicago; instruments for operating control. diag Eng N 128:1017-18 Je 18 '42

Taylor Fulscope time schedule controller. il Rubber Age 51:157 My '42

CONTROL equipment—*Continued*
Technique of precision control in refining processes. R. B. Werey. diags Pet Eng 13:86+ My '42
Testing and control instruments. Metal Prog 42:687-96 O '42
Textiles lead in instrumentation advance. R. Trautschold. il Rayon 23:623-5+ O '42
Trends in combustion control. M. J. Boho. il diags Paper Tr J 114:38-42 Ap 30 '42
See also
Electric controllers
Hydraulic control
Pneumatic control
Pressure regulators
Temperature—Regulation
also subdivision Control under special subjects, e.g.
Airplanes—Control
Boilers—Control
Dyeing machines—Control
Electric motors—Control
Steam turbines—Control

CONTROLLED materials plan. See United States—War production board—Controlled materials plan

CONVENTIONS
Conventions. Published in Printer's ink
Defer conventions, fairs. J. B. Eastman. Comm & Fin Chr 155:2396 Je 25 '42
Profitable convention programs based on banking experience. J. W. Brown, jr. Bankers Mo 59:245-7+ Je '42; Discussion. 59:294-6+ Jl '42
These vacant chairs at conventions; J. W. McPherrin plans National wholesale druggists convention. il Ptr Ink Mo 43:17, 46+ D '41
Transport crisis threatens convention industry; pictograph. Sales Management 51:34 Jl 15 '42
Wartime curtailment of banking conventions. Burroughs Clearing House 26:3 Ag '42
Whether to hold conventions being studied. Nat Underw 46:6 Ja 1 '42
See also
Insurance conventions
Sales conventions

CONVERSION, Factory. See Contracts, Government—Subcontracting; Factories—Conversion

CONVERSION tables
Technical data section; a selection of miscellaneous tables. Chem Ind 49:525-31 pt 2 (Buyer's guidebook) O '41

CONVERTERS
Acid and basic Bessemer refractories. J. H. Chesters. bibliog il diags Iron Age 150:43-8 N 5; 58-64 N 12 '42
Converter smelting. F. E. Wing. Eng & Min J 142:70 N '41; Discussion. M. W. Krejci. 142:70 D '41
Converter's place in war production. A. W. Gregg. il Foundry 70:66-7+ Mr '42; Same. Steel 110:110, 112+ My 11 '42; Abstract. Metals & Alloys 15:846+ My '42
Efforts to make a lady out of Bessemer steel in the foundry. A. H. Allen. il Foundry 70:76, 78 Je '42
Production of uniform steel for a light castings foundry. C. H. Kain and L. W. Sanders. Engineer 174:39-40 Jl 10 '42; Same cond. Iron Age 150:101-2+ O 1 '42
Revival of converter cast steel. A. W. Gregg. Metal Prog 42:527 O '42
Steel produced by the cupola-converter method; abstract. C. E. Sims and F. B. Dahle. Iron Age 150:59-60 Jl 9 '42; Same. Steel 111:86 Jl 6 '42
See also
Bessemer process

CONVERTERS, Electric. See Electric converters

CONVEYANCING
Cases and materials on the law of conveyances. M. R. Kirkwood, ed. 2d ed 765p $6 Foundation press, Chicago '41
See also
Land titles

CONVEYING machinery
Bulk-flow conveyors. il diag Mech Handling 28:253 N '41
Coal and ash handling plant. il diag Engineering 153:285-7, 290, 345-7 Ap 10, My 1 '42
Coal and coke handling at a modern gasworks. diags Mech Handling 29:130-2 Jl '42
Combat trainers from Texas plains; North American aviation, inc. H. F. Schwedes. il Mach 48:190-3 Jl '42
Continuous handling of materials; forty years of progress. Pulp & Pa of Can 43:617-18 Jl '42
Conveying in cement packing plants. il diags plan Mech Handling 29:23-5 F '42
Conveyor comparisons. W. H. Atherton. il diags Mech Handling 28:166-7, 189-93, 209-13, 239-45, 268-71; 29:6-9+ Jl-S, N '41-Ja '42
Conveyor crews average nearly 16 tons per man; Clinton block coal co. W. B. Bannister. il diags Coal Age 46:57-60 N '41
Conveyor-powered machine; soldering automobile radiators. il Steel 110:110 Ap 13 '42
Conveyorized plant finishes shells by the million; Iowa ordnance plant. il Factory Management 100:80-1+ F '42
Conveyors save space in aircraft plant; finishing operations on sheet-metal parts. F. M. Bates. il diags Am Mach 86:1244-9 O 29 '42
Conveyors speed billets to bullets. il Steel 110:98+ Je 15 '42
Data and observations on cable conveyor performance; report of the wood handling subcommittee, Canadian pulp and paper association. Pulp & Pa of Can (Convention no) 43:101-8 [F] '42
Efficiently designed dip wheel solves conveyor problem; Floyd Wells stove co. il Cer Ind 39:47 S '42
Elevators and conveyors for handling powdery, granular, pulverulent or like material; patent. diags Mech Handling 28:249 N '41
Handling equipment for speeding aircraft production. L. V. Spencer. il Aero Digest 41:197-8+ Ag '42
Heat treating high-explosive shell. J. McElgin. diags Steel 109:70, 72+ D 1 '41
Hire purchase agreements and owners and users; recent judicial decision. F. E. Sugden. Mech Handling 29:56-7 Mr '42
How we doubled the output of our inspectors; Hoover ball & bearing company, Ann Arbor. D. W. Saxton. il diags Factory Management 100:85-7 N '42
Ingenious sound room tests units on conveyer line; Westinghouse electric & manufacturing company. A. L. Atherton. il diags Mech Eng 64:799-801 N '42
Loading pulpwood ships by conveyor on scow. il Pulp & Pa of Can 43:525-6 Je '42
Maximum capacity, minimum labor with engineered conveyor system. W. R. Schlehr. il diag Cer Ind 38:66, 68, 70, 72 F '42
Mechanical handling and machining of shells. il diag plan Mech Handling 29:10-12 Ja '42
Mechanical handling and the adjustment of cost in production, from a legal aspect. F. E. Sugden. Mech Handling 29:118-19 Je '42
Mechanical handling in the foundry. D. C. Paterson. il diags plan Mech Handling 29:123-9 Jl '42
Mechanized handling speeds tractor manufacture; International harvester company. il Steel 109:67-8 D 22; 70-2 D 29 '41
Mile long beer line. il plans Mod Packaging 16:81-6+ S '42
Movable bumper for roller conveyor. S. R. Teranes. diag Factory Management 99:78+ D '41
900-ft conveyor handles three coal-moving jobs. W. G. Hudson. il diag plans Power 86:243-5 Ap '42
Pickling capacity increased by mechanization of materials handling system; Buffalo bolt co. il Steel 110:108+ Ap 13 '42
Power conveyor systems in mass production of fighting planes. il Steel 110:40, 42-3 F 2 '42
Roller-line assembly; Aircooled motors corporation. il Aviation 41:78-9+ Ja '42

CONVEYING machinery—*Continued*

Roller reception speeds parts inspection; Gemmer conveyor carries incoming materials from truck platform to inspection benches. C. B. Gordy. il diags Factory Management 100:70-2 Mr '42

Speed up operations with conveyors. il Rock Prod 45:94-5 Ja '42

Worm reduction drives for steel plant bridges. A. E. Gibson. il diags Steel 110: 72, 74-5+ Ja 19 '42

See also

Cableways
Coal handling
Coal mining machinery—Conveyors
Cranes, derricks, etc.
Electric driving—Conveying machinery
Elevators, Portable
Freight handling
Hoisting machinery
Hydraulic conveying
Loading and unloading
Mechanical handling
Mine haulage
Mine hoisting
Monorail conveyors
Ore handling
Pneumatic conveying
Sheet metal handling

Belt conveyors

Ash conveyors; patent. diag Mech Handling 29:151 Ag '42

Belt conveying at the Morenci ore reduction plant. J. H. Johansen. il diags plan Min & Met 23:286-9 My '42

Belt conveyor helps beat the Axis; Douglas aircraft company. il Am Mach 86:912 Ag 20 '42

Belt conveyors and belt elevators. F. V. Hetzel and R. K. Albright. 3d ed rev & enl 439p $6 Wiley '41

Belt conveyors for underground gathering haulage. diags Min Cong J 28:44-7 N '42

Belt conveyors in metal mining. W. E. Philips. il Min Cong J 28:24-5+ Je '42

Blending of coal; variable speed conveying system. I. A. Given. diags Mech Handling 29:92-3 My '42

Coal dust underground where gate-belt conveyors are employed. diags Mech Handling 28:257-8; 29:3-5 D '41-Ja '42

Conserving the conveyor. Eng & Min J 143: 65-6 Jl '42

Conveyor belts speed assembly of plane parts; Douglas aircraft co. il Steel 111:66 Jl 13 '42

Detecting tramp iron on belt. il Eng & Min J 143:71 My '42

Drydock concreting by belt conveyor. il plan Eng N 127:736-8 N 20 '41

Effect of belt transportation on concrete aggregate grading at Shasta dam. G. L. Williams. il diags Am Concrete Inst J 13:329-32 F '42

Lighting on colliery picking belts. C. S. Chubb. Mech Handling 29:50 Mr '42

Martin's belt-conveyor line speeds production of special sub-assemblies. il Aero Digest 39:228 D '41

Mechanization of foundries. A. S. Beech. diags Inst Mech Eng J & Proc 147:Proc 53-60, pl 1-6 My '42; Same cond. Engineering 153:298-300, 317 Ap 10-17 '42; Same cond. Mech Handling 29:51-6 Mr '42; Same cond. Engineer 173:189-91 F 27 '42; Discussion. Inst Mech Eng J & Proc 147:Proc 61-8 My '42; Engineering 153:195-6 Mr 6 '42

Operating a 9-mile belt conveyor at Shasta dam. A. H. Whitmore. il Eng N 129:218-20 Ag 13 '42

Practical operation conveyor belts. M. C. Dow and H. A. Harnden il Rock Prod 45: 52+ F; 56-7 Ap; 42-3 Jl; 47 S '42

Radiating conveyor system speeds storage and shipping; Highland sand and gravel co. il Rock Prod 45:40-1 Jl '42

Radius of vertical curves in belt conveyor design. diags Mech Handling 28:260-1 D '41

Ship loading plant. il Mech Handling 29: 107-8 Je '42

Study on belt conveyors for underground gathering. C. Robinson. il diags Min Cong J 28:49-52 Ja '42

With right care, conveyor belts will carry on. P. D. Suloff. il Factory Management 100:105-6 Je; 116-17 Jl '42

Chain conveyors

Aircraft materials take to the air; Glenn L. Martin's bomber factory. il Manuf Rec 111: 31 Ap '42

Chain conveyor speeds shell core production. il Steel 110:92 My 4 '42

Glenn L. Martin company; new materials-handling system. Aeronautical Eng R 1:57 My '42

Handling and cooling of shell forgings. diags Mech Handling 28:272-3 D '41

Improvements in hot-coil conveyors. J. E. McBride. il diags Steel 110:70, 72, 74 Mr 30 '42

Overhead conveyor system saves thousands of man-hours; Bell aircraft, Buffalo. il Steel 110:68-9 My 11 '42

Control

Complete solenoid control speeds Olean's carton conveyor system. L. H. Cargill. il Glass Ind 23:297-300 Ag '42

Lighting

Mercury vapour lighting horizontal lamps on colliery picking belts; abstract. C. S. Chubb. Engineering 153:312 Ap 17 '42

Manufacture

Arc-welded design and construction applied to conveyors. P. A. Smith. il Welding J 20:168-70 Mr '41; Same. Mech Handling 29:103-5 Je '42

Patents

War and patents relating to conveyors. S. T. Madeley. Mech Handling 29:27-8 F '42

Safety measures

Guarding against accidents in operation of conveyors. il Concrete (mill sec) 50:246-8+ O '42

Safeguarding of conveyors and their legal consequences. F. E. Sugden. Mech Handling 29:18-19 Ja '42

Screw conveyors

Non-flushing feeder for fine materials. il diag Rock Prod 45:24 Ag '42

Travels around corners; patent. diag Machine Design 14:132+ F '42

Utilization of wood refuse for steam raising. R. B. Gillham. Inst Mech Eng J & Proc 147:Proc 35-9, pl 1-2 Ap '42; Same cond. Engineer 173:71-3 Ja 23 '42; Same cond. Engineering 153:199-200 Mr 6 '42; Discussion. diags Inst Mech Eng J & Proc 40-8 Ap '42; Engineering 153:55-6 Ja 16 '42

CONVEYING machinery, Portable

From mixer truck to the job by detachable conveyor. R. Baker. il Rock Prod 45:133 Ja '42

Handy portable conveyor; T. and T. works. il Chem Age (Lond) 46:314 Je 27 '42

Johnson unit type conveyor. il Mech Handling 29:69 Ap '42

CONVEYOR belting. See Belting, Conveyor

CONVICT labor

Federal-prison labor and defense. Monthly Labor R 54:704-5 Mr '42

CONVOY

War on the western ocean; a personal account of two Atlantic crossings. S. Pribichevich. il Fortune 26:98-103, 130, 132+ O '42

CONVULSIONS

Occurrence of fits in pyridoxine deficient rats. S. Lepkovsky, M. E. Krause and M. K. Dimick. Science 95:331-2 Mr 27 '42

COOKE, Morris L.

Portrait. Business Week p30 S 12 '42

COOKERY

Destruction of riboflavin by light; study of losses in cookery in open vessels. R. R. Williams and V. H. Cheldelin. Science 96: 22-3 Jl 3 '42

Home preparation and preservation of food. M. C. Pfund. J Chem Educ 19:138-43 Mr '42

COOKERY—*Continued*

Housing census: fuels used for cooking. Gas Age 90:21+ N 5 '42

See also

Bakers and bakeries
Baking
Bread
Cake
Desserts
Electric cooking
Gas cooking
Shortening
Stoves
Thermometers, Cooking

COOKIES

Better baking through magic eyes; photoelectric reflectometer used in testing ovens. M. Zare. Am Gas Assn Mo 23:453-4 D '41

Displays that coax women to say,"—and some cookies, too." W. E. Rehmann. il Sales Management 49:30+ N 15 '41

COOKING schools

Right kind of food dramatized as powerful war-winning aid, Westinghouse Health for victory club. E. Peterson. il Ptr Ink 199:14-15+ Je 19 '42

COOKING thermometers. See Thermometers, Cooking

COOLIDGE, Calvin, 1872-1933

Coolidge's letters given to Nation. Comm & Fin Chr 156:1724 N 12 '42

COOLIDGE, William David, 1873-

Response in accepting the Duddell medal at the meeting of the American physical society, May 1, 1942. J Ap Phys 13:478-80 Ag '42

COOLING

Balconies designed to cut cooling load; Longfellow building, Washington, D.C. il diags Heating-Piping 13:754 D '41

Comfort with summer air conditioning; report of the ASHVE research technical advisory committee. map Heating-Piping 13:649-54 O '41; Discussion. 14:204-5 Mr '42

Consider evaporative cooling for blackout plants. W. L. Fleisher. Heating-Piping 14:28-9 Ja '42

Cooling a five room house; Purdue housing research. C. F. Boester. il plan Heat & Ven 39:19-21 Ap '42

Cooling a mine to win the war. diags Dom Eng 159:63+ My '42

Effect of attic fan operation on the cooling of a structure. W. A. Hinton and A. F. Poor. il diag plans Heating-Piping 14:244-50 Ap '42; Abstract. Sheet Metal Worker 33:52-4 My '42; Discussion. Heating-Piping 14:250-1 Ap '42 [reprint, Georgia School of technology, Atlanta 20c]

Evaporative cooling with air washers. il Sheet Metal Worker 33:52-3 Jl '42

Is this tomorrow's method of heating and cooling? radiant heating within reflective enclosures; heat absorbing device for cooling. C. F. Boester. il Heat & Ven 39:53-6 Ag '42

Lights on! air in! blackout! factory ventilation and cooling. L. Hungerford. il diags Dom Eng 159:50-1+ My '42

New Orleans public service sold itself first; installs gas air conditioning in its own building. R. Latimer. il Gas Age 89:24+ Je 4 '42

Panel heating and cooling performance studies. B. F. Raber and F. W. Hutchinson. il Heating-Piping 14:125-32 F '42; Discussion. 14:199-200 Mr '42

69 evaporative units in 69 days; J. A. Brucken co. experience in evaporative cooling business. il Sheet Metal Worker 33:36, 38+ Je '42

Southern church air conditioned by ice storage system. G. H. Watson. il Heat & Ven 38:57-9 N '41

Storage refrigeration provides air conditioning for mortuaries. il Refrig Eng 42:404+ D '41

Temperature control cuts air cooling load; KoolShade sun screens prove highly effective. diag Rayon 23:358-9 Je '42

Where is the sun? charts for determining the azimuth, altitude and incident angles; useful in calculating solar heat gains. M. J. Wilson and J. M. Van Swaay. diags map Heat & Ven 39:41-6 My; 59-61 Je '42

See also

Air conditioning
Airplane engines—Cooling
Car cooling
Cold storage
Condensers
Cooling equipment
Cooling of water
Refrigeration and refrigerating machinery
Water, Underground—Cooling uses

Tables, calculations, etc.

Graphical analysis of periodic loads. B. F. Raber and F. W. Hutchinson. Heating-Piping 14:241-2 Ap '42; Discussion. 14:298 My '42

Summer wet-bulb temperatures; map; data sheet. Power 86:135 F '42

COOLING, Industrial

Between wars portland cement industry expands, retracts, and is detracted; kilns and coolers. N. C. Rockwood. il Rock Prod 45:51, 54-5 Ag '42

Collecting rotary cooler dust; Medusa portland cement co. B. Nordberg. il Rock Prod 45:26-7 My '42

Conditioned air equipment company designs shot testing equipment. Refrig Eng 44:320 N '42

Cool welding refrigerated points last longer, weld better. il Sci Am 165:344 D '41

Cooling storage rooms by brine spray system. G. O. Weddell. il Food Ind 14:59-61 S; 56-8 O '42

Diffusion of heat through a rectangular bar and the cooling and insulating effect of fins; the steady state. M. Avrami and J. B. Little. diag J Ap Phys 13:255-64 Ap '42

Douglas cold room. il Aviation 40:155 D '41

Explosion of lard cooling roll kills 2, injures 12. Locomotive 44:113+ O '42

Fiberglas insulation in the low-temperature field. J. B. Schneller. il diags Refrig Eng 43:280-2 My '42

Free-convection cooling of mild steel bars and rods; graphical time-temperature relations. J. Griswold and O. S. Jenkins. Am Soc for Metals Trans 29:1002-12 D '41

Freihofer baking co.; equipment for cooling bread. E. C. Pfaffhausen. il plan Heat & Ven 39:55-7 Ja '42

Handling and cooling of shell forgings. diags Mech Handling 28:272-3 D '41

Performance of refinery gas absorbers with and without intercoolers. R. M. Jackson and T. K. Sherwood. flow sheets Nat Pet N 34:R134, R136-7, R140+ Ap 29 '42

Photoelectric cooling control; TVA fertilizer works. P. Ewald. il diag Electronics 14:55+ N '41

Progressive welder company; refrigerating units for welding machines. J Aeronautical Sci Aeronautical R Sec 9:41+ N '41

Properties and structures of case hardened steel affected by cooling practice after carburizing. O. W. McMullan. il Am Soc for Metals Trans 29:913-28; Discussion. 929-36 D '41

Refrigerated tips; Frostrode welding process. H. Lawrence. il diags Steel 111:62, 64, 66 Ag 24 '42

Refrigeration increases number of spot welds obtained without dressing electrode points. il Am Mach 85:1165 N 12 '41

Refrigeration unit for shock testing at ordnance plant. R. C. Lindblom. il Heating-Piping 14:669-70 N '42

Spot welding aluminum and stainless steel with refrigerated points. Iron Age 148:55 N 20 '41

Steam cooling for mechanical-stoker grates. B. M. Thornton. bibliog diags Engineering 154:183-5, 214-15 S 4-11 '42

Troposphere; studies carried out near sea-level; cold room at Douglas aircraft factory. Sci Am 166:27-8 Ja '42

COOLING, Industrial—*Continued*

W. F. Hall printing company. R. E. Hattis. il Heat & Ven 39:64-5 Ja '42

See also

Cold storage
Cooling water
Lubrication and lubricants (cutting and grinding)
Steel, Quenching of
Testing laboratories—Cold rooms

COOLING equipment

American pharmaceutical co. installs cooling and dehydration equipment. H. J. Bragger. flow diag il plan Heat & Ven 39:86-9 Ja '42

Ammonia brine-cooler tubes of charcoal iron. Power 86:828-9+ N '42

Development and testing of mechanical equipment for liquid cooling. J. J. Corey. il diags Refrig Eng 44:231-4 O '42

How to protect equipment against failure of flow; new data allow easy selection of orifices for use with differential pressure switches. W. Goodman. diags Heating-Piping 14:347-50, 417-21 Je-Jl '42

How we sold evaporate cooling. A. W. Buschmann. il Sheet Metal Worker 33:36, 38+ Ap '42

No interruption to business; replacing an air cooling system in restaurant. il diags plan Sheet Metal Worker 33:52-4 Ag '42

Profits in evaporative cooling; Union sheet metal works. il Sheet Metal Worker 33: 51-2+ Ja '42

Refrigeration for comfort conditioning to be drafted for essential production; machines needed for synthetic rubber plants. E. P. Heckel. il Heating-Piping 14:650-2 N '42

Removal of refrigeration equipment from existing comfort conditioning systems for use in war production; disconnecting, removing, and re-installing. A. E. Vroome. il Heating-Piping 14:647-9 N '42

Simplification stressed in air conditioning system for a St Louis department store. W. P. Norris. il Heat & Ven 39:19-20 Je '42

Tubes expanded to bond fins of cooling coils. il Iron Age 150:53 Jl 16 '42

See also

Cooling towers

Testing

Proposed A.S.R.E. methods of rating and testing complete can-type milk coolers; revised draft; A.S.R.E. circular no. 21-42. Refrig Eng 44:insert 1-4 [348a+] N '42 [ptd separately 15c]

Proposed A.S.R.E. standard methods of rating and testing forced-circulation air coolers for commercial and industrial refrigeration; A.S.R.E. circular no. 25. Refrig Eng 43:insert 400g-400j Je '42 [ptd separately 15c]

Proposed A.S.R.E. standard methods of rating and testing water and brine coolers; A.S.R.E. circular no. 24. Refrig Eng 43: insert 400a-400e Je '42 [ptd separately 15c]

Research in gas; summer air conditioning at A.G.A. laboratories. R. M. Conner. il diag Am Gas Assn Mo 24:306-9 S '42

Tentative A.S.R.E. standard methods of rating and testing forced-circulation air coolers for commercial and industrial refrigeration; A.S.R.E. circular no. 25-42. Refrig Eng 44:insert 1-4[56a+] Jl '42 [ptd separately 15c]

COOLING of water

Cooling Diesel jacket water. G. C. Boyer. il diags Power 86:79-81 F '42

Development and testing of mechanical equipment for liquid cooling. J. J. Corey. il diags Refrig Eng 44:231-4 O '42

New model coolers by Fairbanks-Morse. il Diesel Power 20:490 Je '42

Refrigeration for drinking water cooling systems. J. F. Kern. Refrig Eng 43:1-8 sec 2 F '42

Refrigeration requirements affect design of water cooling equipment. L. T. Mart. il Refrig Eng 42:365-8; 43:17-21 D '41-Ja '42

See also

Cooling towers
Electric water coolers

COOLING ponds

Design of spray cooling ponds. S. Hori, U. A. Patchett and L. M. K. Boelter. il diags Heating-Piping 14:624-6 O '42

COOLING towers

Cooling a five room house; Purdue housing research. C. F. Boester. il plan Heat & Ven 39:19-21 Ap '42

Cooling Diesel jacket water. G. C. Boyer. il diags Power 86:80-1 F '42

Cooling tower at Keswick dam. il Eng N 128:565-6 Ap 9 '42

Efficiency of cooling towers. W. F. Schaphorst. chart Chem Ind 51:558 O '42

Fan blades for cooling towers; phenolic-resin-impregnated wood. il Mod Plastics 19:46+ D '41

Stops freezing on spray type cooling towers. M. A. Rae. diag Power Pl Eng 46:90 Mr '42

Young Radiator's quad cooling tower. il Refrig Eng 44:323 N '42; Pet Eng 13:148-9 S '42

Design

Design and performance of cooling towers; abstracts. W. K. Hutchison and E. Spivey. Chem & Ind 61:97-8 F 21 '42; Chem & Met Eng 49:160 Je '42

Psychrometry of cooling towers. E. Simons. bibliog Chem & Met Eng 49:82-6 Ap; 138-41 My; 83-8 Je '42

Refrigeration requirements affect design of water cooling equipment. L. T. Mart. il Refrig Eng 42:365-8; 43:17-21 D '41-Ja '42

COOLING water

Economics of water conditioning for scale and corrosion control; with cost data. R. C. Rohrdanz. Pet Eng 13:135-6, 138 My '42

Organic fouling of cooling water; treatment with sodium pentachlorphenate; abstract. F. J. Matthews. Chem Age (Lond) 45:258 N 15 '41

Sampling of steam and boiler water; corrosion resistant metals in sampling equipment. A. R. Belyea and A. H. Moody. Am Soc T M Proc 41:1264-73; Discussion. il 1274-6 '41

Scale and corrosion control in water and brine systems. J. A. Holmes. il Refrig Eng 43: 145-8+ Mr '42

COONLEY, Howard, 1876-

Howard Coonley heads up WPB simplification work. por(cover) Ind Stand 13:53-4 Mr '42

New boss for simplification. por Business Week p7 Mr 21 '42

COOPER, Peter, 1791-1883

Bibliography

Peter Cooper; a critical bibliography of his life and works. C. S. Spalding. 25p pa 20c New York public library, New York '41

COOPER union

Cooper union. il Arch Forum 77:6, 10 S '42

Cooper union. E. L. Jones. il J Eng Educ 32:499-501 Mr '42

COOPERATION

Cooperative democracy through voluntary association of the people as consumers. J. P. Warbasse. 4th ed 285p bibliog(p271-3) $2.50 Harper '42

Cooperative movement and the war. Monthly Labor R 55:547-66 S '42

Co-operative politics inside capitalist society; Great Britain. F. Longden. 252p 8s 6d Cornish bros, Birmingham, Eng. '41

How to teach consumers' cooperation. C. M. Wieting. 206p bibliog(p189-90, 198-9) $2 Harper '42

Problems of cooperation; a study of the deficiencies of the cooperative method of economic organization and the difficulties in the way of its expansion. J. P. Warbasse. 212p $2 Island press, New York '42

COOPERATION—*Continued*
Socialistic trend as affecting the cooperative movement. J. P. Warbasse. 32p 15c Cooperative league of the U.S.A., New York '40

See also
Advertising, Cooperative
Benefit societies
Building and loan associations
Cold storage warehouses, Cooperative
Cooperative associations
Credit unions
Housing, Cooperative
Marketing, Cooperative
Medical service—Group plan
Petroleum refineries, Cooperative
Profit sharing
Trade unions

Bibliography

Bibliographical review of literature on legal phases of cooperation. V. J. Tereshtenko and others. 243p Work projects administration, New York '41
Cooperative education. V. J. Tereshtenko. pt 1 363p U.S. Work projects administration, New York '41

China

Industrial co-operatives in China. Int Labour R 44:660-7 D '41

South Africa

Cooperative movement in South Africa. Monthly Labor R 54:119-22 Ja '42

United States

Consumers' cooperatives in 1941. Monthly Labor R 54:683-92 Mr '42
Co-op label gains; National cooperatives, inc. holds first merchandising clinic. Business Week p60-3 Je 27 '42
Co-ops, hit by war, fight back with aggressive advertising. P. H. Erbes, jr. Ptr Ink 198:24, 28 F 27 '42
People's business; the progress of consumer cooperatives in America. J. K. Bolles. 170p bibliog(p161-5) $2 Harper '42
TNEC statement on consumers' cooperatives. Monthly Labor R 54:114-16 Ja '42

COOPERATION, International. See International cooperation

COOPERATION, Library. See Library cooperation

COOPERATIVE advertising. See Advertising, Cooperative

COOPERATIVE associations
A.&P. co-op flops; chain drops plan to market big share of nation's produce through Atlantic commission. Business Week p54+ Mr 21 '42
Consumer cooperative leadership; organizing and running consumer cooperatives. 173p bibliog(p164-8) $1.25 Edward A. Filene good will fund, 31 Milk st, Boston '42
Cooperative not controlled by members held subject to wage-hour law. Monthly Labor R 54:1357 Je '42
Farmers' use of cooperatives. Monthly Labor R 54:117-19 Ja '42

See also
Cooperative food distributors of America
Cooperative fruit and vegetable association
Credit unions
Farmers' cooperative associations
National cooperatives, inc.
New York state fruit testing cooperative association

Advertising

Certified grocers stand pat: push national brands, continue advertising. J. M. Yunker. Sales Management 50:24-6 F 15 '42
Co-ops ditch idealism for modern merchandising. Ptr Ink 200:44+ Ag 7 '42
Co-ops, hit by war, fight back with aggressive advertising. P. H. Erbes, jr. Ptr Ink 198:24, 28 F 27 '42
Co-ops off the air; NBC and CBS refuse to sell time to League. Business Week p78+ O 17 '42
Food co-operatives in nation-wide holiday campaigns. il Ptr Ink Mo 43:13 D '41

Taxation

Taxation of consumers' cooperatives, 1940. F. E. Parker and T. Zorach. Monthly Labor R 54:968-88 Ap '42

COOPERATIVE associations, Wholesale
Cooperative wholesaling in grocery distribution; a case study of White Villa grocers, inc. E. B. O'Leary. 130p $2 Bur. of business research, Ohio state univ, Columbus '42
It's a rebate; High court rules against co-op's patronage dividend on coal as violation of Guffey act. Business Week p68-9 Jl 4 '42

COOPERATIVE committee on science teaching
Work in progress; committee members. Science 95:38 Ja 9 '42

COOPERATIVE food distributors of America
New strategist for independents. Business Week p44 F 28 '42

COOPERATIVE fruit and vegetable association
Moving surpluses; fruit and vegetable co-op, dropping its A.&P. ties, takes its place among groups set up to move farmers' excess output. Business Week p53-4 Ag 15 '42

COOPERATIVE house organs. See House organs, Cooperative

COOPERATIVE housing. See Housing, Cooperative

COOPERATIVE league of the United States of America
Co-ops off the air; NBC and CBS refuse to sell time to League. Business Week p78+ O 17 '42

COOPERATIVE radio advertising. See Radio advertising, Cooperative

COOPERATIVE research council
Cooperative research council starts operation from Radio City headquarters; sponsored jointly by SAE and API. S A E J 50:sup23 Je '42

COOPERATIVE stores. See Cooperation

COORDINATION (chemistry)
Stabilization of valences by coördination. M. J. Copley, L. S. Foster and J. C. Bailar, jr. bibliog Chem R 30:227-38 Ap '42

COPALS
Belgian Congo copal gum production. For Comm W 6:21 Ja 31 '42
Manila gums; the use of Manila copals in bright drying floor waxes. R. W. Allan. bibliog il Soap & San Chem 17:118-21+ D '41
Production of gum copal in the Netherlands Indies. For Comm W 5:29 D 20 '41

COPENHAGEN, Denmark
Undertakes port expansion. For Comm W 6:12 Ja 10 '42

COPOLYAMIDES. See Amides

COPOLYMERIZATION. See Polymerization

COPPER
Allot funds for tin can processing plant; cans prepared for use in leaching process in precipitation of copper from mines. Eng N 128:302 F 19 '42
Cathode drop of an arc. G. H. Fett. bibliog diag Welding J 21:sup27-9 Ja '42; Same cond. J Ap Phys 12:436-8 My '41
Concentration of dilute solutions of electrolytes by base-exchange materials; zeolites for recovery of metal ions. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41
Copper. 18p pa 5c Pan American union, Washington, D.C. '42
Copper(II) and nickel(II) complex ions of diethylenetriamine. H. M. Haendler. bibliog Am Chem Soc J 64:686-8 Mr '42
Copper dilemma, Glenwood range company's shutdown blamed on restriction order. Business Week p26+ N 29 '41
Copper mirrors. P. W. Selwood. diag J Chem Educ 19:375 Ag '42
Copper recovery program aiding many war plants. Comm & Fin Chr 156:1095 S 24 '42

COPPER—*Continued*

Copper situation in ordnance work; important substitutions. A. F. Macconochie. il Steel 111:194-6+ O 5 '42

Copper supplies. Economist 143:210-11 Ag 15 '42

Direct blackening process for copper and copper alloys. Metal Finishing 40:139 Mr '42; Mach 48:160 Je '42; Chem & Met Eng 49:142 Je '42

Dye extremely sensitive to copper. E. I. Stearns. Ind & Eng Chem Anal ed 14:568-9 Jl 15 '42

Effect of inhibitors on the rate of oxidation of copper by oxygen in phosphoric acid solutions. R. W. Lawrence and J. H. Walton. J Phys Chem 46:609-16 Je '42

Effect of lightning on thin metal surfaces. K. B. McEachron and J. H. Hagenguth. il diag Elec Eng 61:Trans 559-64 Ag '42

Enzymes in ontogenesis (orthoptera); the importance of copper for protyrosinase. T. H. Allen and J. H. Bodine. Science 94:443-4 N 7 '41

Equilibrium between cuprous and cupric compounds in presence of metallic copper. J. E. B. Randles. diag Chem Soc J p802-11 D '41

Far ultraviolet reflectivities of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42

Hydrogenation of alkyl phenyl ketones in the presence of copper alumina catalysts. V. N. Ipatieff and V. Haensel. Am Chem Soc J 64:520-1 Mr '42

Influence of external factors in catalytic reactions; dehydrogenation of ethyl alcohol with copper catalyst. T. J. Suen, T. P. Chien and P. S. Chu. bibliog Ind & Eng Chem 34:674-6 Je '42

Isolation of a copper bearing protein from cow's milk. W. L. Dills and J. M. Nelson. bibliog Am Chem Soc J 64:1616-18 Jl '42

It's the little things that count; off-flavors, rancidity, etc. can often be traced to presence of minute quantities of metals, acting as catalysts. J. A. Dunn. Food Ind 14:41-4+ Ag '42

K-absorption edges of metal ions in aqueous solution. W. W. Beeman and J. A. Bearden. bibliog Phys R 61:455-8 Ap 1 '42

Mechanism for self-diffusion in metallic copper. H. B. Huntington and F. Seitz. bibliog Phys R 61:315-25 Mr 1 '42

Native copper deposit near Jefferson City, Montana. J. D. Forrester. maps Econ Geol 37:126-35 Mr '42

Nickel and copper in bitumens; abstract. G. A. Fester and J. Cruellas. Chem & Met Eng 49:167 Ag '42

Optical dispersion of copper and beryllium. M. P. Givens. bibliog diag Phys R 61:626-30 My 1 '42

Over-all linear expansion of three face-centered cubic metals (Al, Cu, Pb) from —190 degrees cent. to near their melting points. J. W. Richards. diags Am Soc for Metals Trans 30:326-34 bibliog(45 references, p333-4); Discussion. 334-6 Je '42

Parabolic and logarithmic oxidation of copper. A. L. Dighton and H. A. Miley. Electrochem Soc Trans 81 (preprint 24):375-80 Ap '42

Plan three plants to prepare used tin cans for copper precipitation. Steel 110:44 F 16 '42

Rate of oxidation of copper at room temperature. A. H. White and L. H. Germer. bibliog il Electrochem Soc Trans 81 (preprint 9):91-104 Ap '42; Abstract. Metal Prog 42:962+ N '42

REA gets copper to finish pending projects. Elec W News ed 116:1779 D 6 '41

Secondary copper situation. E. E. Thum. Metals & Alloys 15:850+ My '42; Same cond. Steel 110:81 Je 22 '42

Secondary copper; sources, amount, treatment; report by advisory committee, National academy of sciences. il Metal Prog 41:819-21+; 42:66-9, 421-6+ Je-Ag '42

Self-diffusion of copper; rates of diffusion by employing artificially produced radioactive elements. C. L. Raynor, L. Thomassen and L. J. Rouse. bibliog Am Soc for Metals Trans 30:313-25 Je '42

Spectrographic studies of coprecipitation; fourth-period elements with barium sulfate, and copper and zinc with lead sulfate. L. Waldbauer, F. W. Rolf and H. A. Frediani. bibliog Ind & Eng Chem Anal ed 13:888-9 D 15 '41

Standardisation of sodium thiosulphate with potassium dichromate. B. D. Sully. Chem Soc J p366-8 My '42

Swords and plowshares; metal implements of war spurred tremendous advances in peaceful arts. J. Early. Barron's 22:40 Ja 12 '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research Nat Bur Stand 29:177-81, pl 1-4 Ag '42

See also

Brass
Bronze
Copper alloys
Copper industry and trade
Copper metallurgy
Copper mines and mining
Copper ores
Roofing, Copper
Wire, Copper

Analysis

Amperometric titration of copper with benzoinoxime. A. Langer. bibliog Ind & Eng Chem Anal ed 14:283-5 Mr 15 '42

Analysis of tin-base bearing metal; permanganate and iodometric methods for antimony and copper. J. R. Andrews and A. J. Bender. bibliog Ind & Eng Chem Anal ed 14:713-14 S 15 '42

Determination of copper and nickel in steels; determination of copper by electrodeposition and nickel by cyanide titration. L. Silverman, W. Goodman and D. Walter. Ind & Eng Chem Anal ed 14:236-7 Mr 15 '42

Determination of copper in textile materials treated to prevent mildew. C. L. Hoffpauir and R. T. O'Connor. bibliog Am Dyestuff Rep 31:395-8 Ag 17 '42

Determination of copper reduced by sugars; use of ceric sulfate as a volumetric reagent. A. H. Best, A. H. Peterson and H. M. Sell. bibliog Ind & Eng Chem Anal ed 14:145-6 F 15 '42

Determination of traces of copper in wort, beer, and yeast. I. Stone. Ind & Eng Chem Anal ed 14:479-81 Je 15 '42

Direct spectrographic determination of copper and manganese in dyestuffs. G. L. Buc, G. L. Royer and A. R. Norton. Opt Soc Am J 32:454-6 Ag '42

Estimation of copper in mildewproofed fabrics. B. J. Brown. Textile World 92:92 S '42

Luminol as reagent for hydrogen peroxide, copper, iron, and cyanide. A. Steigmann. Soc Chem Ind J 61:36 F '42

Mildewproofing army fabrics; determination of percentage of copper. R. A. Allen. Textile World 92:73 Ap '42

Photographic emulsions as specific reagents for traces of mercury and copper. A. Steigmann. Soc Chem Ind J 61:51-2 Mr '42

Photometric determination of copper and iron in distilled liquors. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:364-6 Ap 15 '42

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

Rapid spectrographic determination of minute amounts of arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

COPPER—Analysis—*Continued*

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

Separation of copper, lead, and zinc with salicylaldoxime. L. P. Biefeld and W. B. Ligett. bibliog Ind & Eng Chem Anal ed 14:359-61 Ap 15 '42

Silicon, manganese, chromium, iron, and copper in a nickel-base alloy; an aliquot method for routine analysis of an electrical heat-resisting alloy. L. Silverman. Ind & Eng Chem Anal ed 14:554-5 Jl 15 '42

Spectrographic analysis; photographic aspects of the internal standard method; estimation of copper and antimony in an alloy. A. C. Coates and E. H. Amstein. Soc Chem Ind J 61:27-9 F '42

Conservation

Carbon situation and copper conservation. E. A. Williford. Soc Motion Picture Eng J 39:3-5 Jl '42

Composite railroad bearing conserves copper. E. S. Pearce. diag Metal Prog 42:368-9+ S '42

Copper products banned. Sheet Metal Worker 33:32 Je '42

Copper saved to make magnesium; busbar and feeder system for the electrolytic plant located at Basic magnesium, inc. il Elec West 89:48-50 O '42

Curtailment of the use of copper; modified design of journal bearing. V. R. Hawthorne. diags Ry Age 112:264 Ja 24 '42

High-voltage distribution saves copper. il diags Factory Management 100:92, 94 Mr '42

Make one pound of copper do the work of two. L. A. Umansky. Gen Elec R 45:555-6 O '42; Abstract. Power 86:920c+ D '42

Output of pennies cut to conserve copper. Comm & Fin Chr 156:1433 O 22 '42

Saving copper. Business Week p40+ N 15 '41

Utilities and the copper situation. C. W. Kellogg. Edison Elec Inst Bul 9:482-4 D '41

Utility organizations pledged to save copper. Elec W News ed 116:1969 D 20 '41

War metallurgy group reports on salvaging brass-clad steel scrap. Steel 111:37 O 19 '42

See also

Copper, Substitutes for

Metallography

Bright copper plating in acid baths. F. L. Clifton and W. M. Phillips. il Metal Finishing 40:460-2 S '42

Electrolytic polishing of brass and copper. G. J. Foss, jr. and L. Shiller. il Metal Prog 42:77-9+ Jl '42

Influence of crystal structure on the cold rolling and annealing of copper strip. M. Cook and T. L. Richards. Metal Prog 41:53+ Ja '42

Prices

Electrolytic copper, Connecticut valley, monthly, 1929-1941; tabulation. Iron Age 149:186 Ja 1 '42

Premium price plan for copper, lead, and zinc. Eng & Min J 143:63 Mr '42

Price schedule; copper and copper scrap. Iron Age 149:132, 134 Ja 1 '42

Rules established for payment for over-quota nonferrous production. Steel 110:44 F 16 '42

Testing

Electrolytic behavior of ferrous and nonferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42

Fatigue tests on some copper alloys. A. R. Anderson and C. S. Smith. bibliog diags Am Soc T M Proc 41:849-57; Discussion. 858 '41

Impact strength of copper. M. Cook and E. C. Larke. Engineering 153:437 My 29 '42

Soil-corrosion studies, 1939: ferrous and nonferrous corrosion-resistant materials. K. H. Logan. J Research Nat Bur Stand 28:390-7 Mr '42

Tensile properties of some copper alloys. C. S. Smith and R. W. Van Wagner. Am Soc T M Proc 41:825-45; Discussion. 846-8 '41

Welding

Inspection of copper welds. Metal Prog 42:102+ Jl '42

Welding of copper. A. P. Young. bibliog il diag Welding J 20:sup513-21 N '41

COPPER, Powdered

Effect of inhibitors on the rate of oxidation of copper by oxygen in phosphoric acid solutions. R. W. Lawrence and J. H. Walton. bibliog J Phys Chem 46:609-16 Je '42

COPPER, Substitutes for

Iron for line construction; use of solid and stranded steel wire in place of copper. il Elec West 89:38-9 Jl '42

Let's look at substitutes. il Factory Management 100:73-5+ F '42

Plastic material to replace copper in industry; Saran. Metal Finishing 39:679-80 D '41; Same cond. Am Bld 64:94-5 Ja '42

Plumbing jitters; substitutes tested. Business Week p38+ N 22 '41

Release silver stock as copper substitute. Comm & Fin Chr 155:1560 Ap 16 '42

Shells of steel? substitution for copper. Business Week p14 N 22 '41

Silver as a substitute for copper in electric wiring; abstract. R. E. McConnell. Science 94:sup10+ N 7 '41

Wide extrusions; U.S. navy, already a large user of plastic materials, has adopted extruded vinyl for flashing and capping strips. il Mod Plastics 20:44+ S '42

COPPER alloys

Alloys for springs; development of beryllium-bronze. Chem Age (Lond) 46:7-8 Ja 3 '42

Alloys of manganese and copper; microstructure. R. S. Dean, C. T. Anderson and J. H. Jacobs. bibliog il Am Soc for Metals Trans 29:881-98 D '41

Alloys of manganese-nickel and copper; the coefficient of thermal expansion. R. S. Dean, C. T. Anderson and E. V. Potter. il Am Soc for Metals Trans 29:907-12 D '41

Alloys of manganese-nickel and copper; the electrical resistance and temperature coefficient of electrical resistance. R. S. Dean and C. T. Anderson. Am Soc for Metals Trans 29:899-906 D '41

Bearings and lubrication; copper-lead bearings. R. J. S. Pigott. il Mech Eng 64:265-8 Ap '42

Beryllium copper. Electrician 129:42 Jl 10 '42; Same. Chem Age (Lond) 47:112 Ag 1 '42

Copper alloy ingots and castings; British standard. Chem & Ind 61:267 Je 13 '42

Copper alloys; economy specifications for ingots and castings. Chem Age (Lond) 46:285 Je 6 '42

Creep of copper alloys; abstracts. H. L. Burghoff, A. I. Blank and S. E. Maddigan. Iron Age 150:62 Jl 9 '42; Min & Met 23:390 Jl '42; Engineering 154:290 O 9 '42

Cupro-nickels; properties, charts. R. A. Wilkins and E. S. Bunn. Product Eng 13:350-4 Je '42

Diffusion theory of the codeposition of gold and copper. M. Dole. Electrochem Soc Trans 82 (preprint 15):145-59 O '42

Direct blackening process for copper and copper alloys. Metal Finishing 40:139 Mr '42; Mach 48:160 Je '42

Economising nickel; alternative alloys for control gear. Elec R (Lond) 131:387-91 S 25 '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

G.E.C. Heavy alloy, made by sintering tungsten powder with copper and nickel. Engineer 172:sup[Metallurgist] 39-40 O 31 '41

Hard soldering cold-worked copper; Tempobrazing. il diags Steel 110:100+ Je 8 '42

COPPER alloys—*Continued*

Heavy alloy developed by the British General electric co. G. H. S. Price, S. V. Williams and G. J. O. Garrard. Metal Prog 41:337+ Mr '42

High-conductivity beryllium-cobalt-copper alloy. Engineering 153:287 Ap 10 '42

Homogenization of copper-nickel powder alloys. F. N. Rhines and R. A. Colton. bibliog diag Am Soc for Metals Trans 30:166-88; Discussion. 188-90 Mr '42

Increasing production by elimination of unnecessary alloys. D. K. Crampton. Metal Prog 41:352-3 Mr '42

Materials for springs for electric equipment. P. M. G. Thorpe. il Elec R (Lond) 130:465-7 Ap 10 '42

Metal pickling with ferric sulfate. J. O. Percival, C. P. Dyer and M. H. Taylor. bibliog il Ind & Eng Chem 33:1529-35 D '41

Navy Tombasil; a new silicon bronze casting alloy. H. L. Edsall. il Iron Age 150:54-9 Jl 30 '42

New bronze alloy; Ajax navy Tombasil. Electrician 128:582 Je 12 '42

Order in the alloy Cu_3Au. L. H. Germer, F. E. Haworth and J. J. Lander. il Phys R 61:93 Ja 1 '42

Order in the alloy Cu_3Au; electron diffraction by transmission method used to investigate superstructure. L. H. Germer, F. E. Haworth and J. J. Lander. il diags Phys R 61:614-26 My 1 '42

Precipitation hardening. W. L. Fink. bibliog il diags J Ap Phys 13:75-83 F '42

Silver additions to copper. Iron Age 150:67 Jl 2 '42; Same abr. Steel 111:86 Jl 13 '42

Single metal, binary and ternary alloy deposition from thiosulfate solutions; binary alloy deposition of copper-nickel, copper-cadmium and copper-zinc alloys from thiosulfate solutions. D. C. Gernes and G. H. Montillon. Electrochem Soc Trans 81 (preprint 20):297-315 Ap '42

Springs of beryllium copper. R. W. Carson. il Aero Digest 41:150, 153+ Jl '42; Excerpts. Metals & Alloys 16:344+ Ag '42

See also

Aluminum bronze
Brass
Brazing
Bronze
Bronze powders
Gilding metal
Monel metal
Muntz metal
Speculum metal

Specifications

Specification numbers for copper alloys; reference book sheet. R. A. Wilkins and E. S. Bunn. Product Eng 13:423-6, 483-6 Jl-Ag '42

Testing

Fatigue tests on some copper alloys. A. R. Anderson and C. S. Smith. bibliog diags Am Soc T M Proc 41:849-57; Discussion. 858 '41

Soil-corrosion studies, 1939: ferrous and non-ferrous corrosion-resistant materials. K. H. Logan. J Research Nat Bur Stand 28:390-7 Mr '42

Tensile properties of some copper alloys. C. S. Smith and R. W. Van Wagner. Am Soc T M Proc 41:825-45; Discussion. 846-8 '41

COPPER chromite

Studies on lignin and related compounds; high pressure hydrogenation of wood using copper chromite catalyst. H. P. Godard, J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3061-6 N '41

COPPER coating

Metal coatings on non-conducting materials; chemical deposition of copper films on glass. S. Wein. Metal Finishing 39:671-2; 40:24 D '41-Ja '42

COPPER compounds

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

Equilibrium between cuprous and cupric compounds in presence of metallic copper. J. E. B. Randles. diag Chem Soc J p802-11 D '41

COPPER cyanide

High efficiency cyanide copper bath. H. L. Benner and C. J. Wernlund. Electrochem Soc Trans 80 (paper 38):531-6 O '41

COPPER halides

Interpretation of the Sandmeyer reaction. H. H. Hodgson, S. Birtwell and J. Walker. Chem Soc J p770-6 N '41

COPPER hydroxide

Cupriethylenediamine as a solvent for cellulose fractionation. F. L. Straus and R. M. Levy. bibliog Paper Tr J 114:33-7 Ap 30 '42; Abstract. Paper Ind 24:762-4 O '42

Cupri-ethylene diamine disperse viscosity of cellulose. F. L. Straus and R. M. Levy. bibliog diag Paper Tr J 114:31-4 Ja 15 '42

Effect of method of preparation upon the activity of coprecipitated copper hydroxide-magnesium hydroxide catalysts. J. W. Holmes and E. H. Taylor. Am Chem Soc J 63:2911-15 N '41

Hydrous cupric hydroxide and basic cupric sulfates. H. B. Weiser, W. O. Milligan and E. L. Cook. bibliog Am Chem Soc J 64:503-8 Mr '42

Inhomogeneity in coprecipitated copper hydroxide-magnesium hydroxide catalysts and its effect upon their activity. E. H. Taylor. Am Chem Soc J 63:2906-11 N '41

COPPER industry and trade

Copper situation in ordnance work; important substitutions. A. F. Macconochie. il Steel 111:194-6+ O 5 '42

See also

Anaconda copper mining company

Finance

High copper quotas prevent premium prices. Barron's 22:8 My 18 '42

Prospects for copper shares. K. Brandon; M. Pescatello. Barron's 22:7-8 Jl 27 '42

Securities

Outlook for copper fabricators. W. J. Nolle. Barron's 21:7 D 29 '41

What price copper? P. Dobbs. Mag of Wall St 69:144-5+ N 15 '41

Statistics

Copper in 1941. T. H. Miller. il Min Cong J 28:45-7 F '42

Copper, 1941. H. H. Wanders. Eng & Min J 143:42-3+ F '42

Recent copper statistics. Barron's 21:6 N 24 '41

Summary of copper statistics, annually, 1935-1941; monthly, 1941. Comm & Fin Chr 155:347 Ja 22 '42

United States copper statistics; tabulation. Eng & Min J 143:101 F '42

Rhodesia

Rhodesian copper prospects. Economist 141:632 N 22 '41

Sweden

Increased output of Swedish copper ores. For Comm W 8:26 Jl 25 '42

United States

Anaconda Copper; in 1942 it will produce over one-third of U.S. supply. il Fortune 25:52-5+ Ja '42

Copper and brass industry prospects for 1942. C. D. Dallas. Comm & Fin Chr 155:448 Ja 29 '42

Copper jackpot; companies told to give up 300,000 tons. Business Week p93-4 My 23 '42

Developments in the field of commodities. Barron's 22:6 Ap 6 '42

COPPER industry and trade—United States —*Continued*

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Earnings in the smelting and refining of nonferrous metals, August 1941. H. Ober and J. Loft. Monthly Labor R 55:129-47 Jl '42

Heavy war requirements necessitate sharp curtailment of civilian uses; domestic output increased. Survey of Cur Business 22:6-7 Jl '42

Non-ferrous metals at war. T. E. Lloyd. Iron Age 149:112-13 Ja 1 '42

Utilities and the copper situation. C. W. Kellogg. Edison Elec Inst Bul 9:482-4 D '41

What price copper? P. Dobbs. Mag of Wall St 69:144-5+ N 15 '41

COPPER metallurgy

American copper mine and reduction works; Morenci district of Arizona; Phelps Dodge corporation. plans Engineer 174:99-100, 120 Jl 31-Ag 7 '42

Converter smelting. F. E. Wing. Eng & Min J 142:70 N '41; Discussion. M. W. Krejci. 142:70 D '41

Copper metallurgy, 1941. E. A. Peretti. il Eng & Min J 143:83-4 F '42

Design of the primary crushing plant; Morenci mine. L. R. MacLeod. il diag Min & Met 23:265-8 My '42

Development of the flowsheet for the Morenci concentrator. E. Wittenau and B. H. Cody. flow sheets Min & Met 23:262-4 My '42

Loss of copper in slags. A. C. Halferdahl. Eng & Min J 143:72 S '42

Making a three-metal separation at the Duquesne group; Callahan Zinc-lead's flotation plant. J. B. Huttl. flowsheet il Eng & Min J 142:56-8 N '41

Metallurgy of copper. J. Newton and C. L. Wilson. 518p bibliog(p499) $6 Wiley '42

Metallurgy of copper, 1941. A. E. Wheeler and H. Y. Eagle. il Min & Met 23:75-6 F '42

Mining tour of South America. J. B. Huttl. il Eng & Min J 143:47-51 Je '42

Mining tour of South America; Chuquicamata mine and plant. J. B. Huttl. il Eng & Min J 143:52-3 My '42

Morenci concentrator. A. P. Svenningsen. flow sheet il diag plan Min & Met 23:272-7 My '42

Morenci reduction works. C. W. Dunham; J. H. Johansen; A. C. Babcock. il diags plans Min & Met 23:283-92 My '42

Recovery of copper from poor residues; improved rotary process. A. G. Arend. il Chem Age (Lond) 46:283-4 Je 6 '42

Roasters eliminated in arrangement of smelter at Morenci. L. R. MacLeod. il diag Min & Met 23:278-81 My '42

Secondary crushing plant; Morenci mine. A. P. Svenningsen. il diags Min & Met 23:270-1 My '42

Electrometallurgy

Copper refining; advantages of the electrolytic method. C. C. Downie. Elec R (Lond) 128:405-6 O 17 '41

COPPER miners

Housing, health, education and safety at Morenci. G. C. Davis. il Min & Met 23:297-9 My '42

COPPER mines and mining

Cooling a mine to win the war. diags Dom Eng 159:63+ My '42

See also
Anaconda copper mining company

Arizona

American copper mine and reduction works; Morenci district of Arizona; Phelps Dodge corporation. plans Engineer 174:70-1, 99-100, 120 Jl 24-Ag 7 '42

Copper mining at Morenci. L. S. Cates and others. flow sheets il diags plans maps Min & Met 23:246-99 My '42

Chile

Chile; its name synonymous with copper, also produces iron and several ferroalloy metals. F. Benitez. il map Eng & Min J 143:75-7 Ag '42

Chuquicamata; Chile exploration co. is working world's largest deposit of copper ore; illustrations. Eng & Min J 142:cover, 59 N '41

Mining tour of South America; Chuquicamata mine and plant. J. B. Huttl. flow sheet il Eng & Min J 143:51-3 My '42

Germany

Origin of the Mansfeld copper deposits. C. H. White. Econ Geol 37:64-8 Ja '42

Idaho

Idaho mine increases strategic mineral output; Coeur d'Alene company becomes important producer of copper-antimony-silver ore. R. D. Baily. il Eng & Min J 143:52-4 Jl '42

Montana

Victory drive for greater domestic metal output inaugurated at Butte, Montana. Min Cong J 28:48-50 Jl '42

Nevada

Block caving with slusher hoists and scrapers; Emma Nevada mine of Consolidated coppermines corporation. P. J. Sirkegian. diags Min Cong J 28:11-15 Mr '42

Rhodesia

Copper in Africa; the copper belt of Northern Rhodesia. T. C. Brown. 24p pa 3d Edinburgh house press, London '41

Tennessee

Planned war-time maintenance and salvage program; Tennessee copper company. L. Weaver. il Eng & Min J 143:53-4 O '42

COPPER naphthenate

Mildewproofing army fabrics; copper naphthenate process. il Textile World 92:101 F '42

COPPER nitrate

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

COPPER ores

Genesis of some ore deposits of southeastern Maine. C. Li. maps Geol Soc Bul 53:15-51 bibliog(p46-7) pl 1-5 Ja '42

Mineralization of the Ajo copper district, Arizona. J. Gilluly. bibliog diags maps Econ Geol 37:247-309 Je '42

Origin of the Mansfeld copper deposits. C. H. White. Econ Geol 37:64-8 Ja '42

COPPER oxides

Copper-oxide rectifiers for electroplating and anodizing. L. W. Burton. diags Metal Finishing 40:243-6 My '42

Hall effect and conductivity of cuprous oxide. S. J. Angello. bibliog diags Phys R 62:371-7 O 1 '42

Metal rectifiers. A. L. Williams and L. E. Thompson. diags Inst E E J 88 pt 1:353-71 bibliog(130 references, p369-71) O '41; Discussion. 88 pt 1:371-83; 89 pt 1:357-62 O '41, Ag '42

Analysis

Determination of oxide copper. R. S. Young and D. G. M. Graham. Ind & Eng Chem Anal ed 14:787-8 O 15 '42

COPPER peroxide

Copper-peroxide reaction of dyeings. H. P. Baumann. Textile Col 64:36 Ja '42

COPPER pipes. See Pipes, Copper

COPPER plating

Bright copper plating in acid baths. F. L. Clifton and W. M. Phillips. il Metal Finishing 40:457-62 S '42; Abstract. Iron Age 149:66 Je 25 '42

COPPER plating—*Continued*

Diffusion theory of the codeposition of gold and copper. M. Dole. Electrochem Soc Trans 82 (preprint 15):145-59 O '42

High efficiency cyanide copper bath. H. L. Benner and C. J. Wernlund. Electrochem Soc Trans 80 (paper 38):531-6 O '41

Motion and time study in electroplating. P. J. Lopresti. flow charts Metal Finishing 40:196-9 Ap '42

Self-diffusion of copper; rates of diffusion by employing artificially produced radioactive elements. C. L. Raynor, L. Thomassen and L. J. Rouse. bibliog Am Soc for Metals Trans 30:313-25 Je '42

Single metal, binary and ternary alloy deposition from thiosulfate solutions; binary alloy deposition of copper-nickel, copper-cadmium and copper-zinc alloys from thiosulfate solutions. D. C. Gernes and G. H. Montillon. Electrochem Soc Trans 81 (preprint 20):297-315 Ap '42

Use of copper in selective carburizing. M. M. Thompson. bibliog il Metal Finishing 40:579-82 N '42; Abstract. Iron Age 149:64-5 Je 25 '42

COPPER recovery corporation

Copper recovery corp. ready to buy 300,000 tons of frozen inventory. Steel 110:38 Je 22 '42

COPPER roofing. See Roofing, Copper

COPPER sulfate

Chlorine-ammonia treatment of water; use of copper, chlorine and ammonia in plankton control. C. K. Calvert. Am Water Works Assn J 33:2108-12 D '41

Clean? simple test for metal parts. il Sci Am 166:298 Je '42

Concentration of dilute solutions of electrolytes by base-exchange materials; zeolites for recovery of metal ions. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41

Copper sulphate as an aid to sewer maintenance and sewage treatment; odor control and root removal. J. W. Hood. Water Works & Sewerage 89:121-3 Mr '42

Copper sulfate dispersion and settlement in reservoirs. H. C. Medbery. Am Water Works Assn J 34:735-6 My '42

Copper sulphate for aquatic nuisances; toxic effects upon fish. L. F. Warrick, F. J. McKee and A. E. Bartsch. Pub Works 73:21+ S '42

Copper treatment of sewers does not injure trees. Water Works & Sewerage 89:365 Ag '42

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

Diffusion coefficient of cupric sulfate from 0.0 to 0.35 molar at 25°C. W. G. Eversole, H. M. Kindsvater and J. D. Peterson. diag J Phys Chem 46:370-5 Mr '42

Hydrous cupric hydroxide and basic cupric sulfates. H. B. Weiser, W. O. Milligan and E. L. Cook. bibliog Am Chem Soc J 64:503-8 Mr '42

Operation of water treatment plants; second edition, revised. W. A. Hardenbergh and others. Pub Works 73:61-2 Je '42

See also
Fehling's solution

COPPER sulfides

Determination of oxide copper. R. S. Young and D. G. M. Graham. Ind & Eng Chem Anal ed 14:787-8 O 15 '42

COPPER sulfinates

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

COPPER sulfonates

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

COPPERAS. See Iron sulfates

COPPERWORK

Copper products banned. Sheet Metal Worker 33:32 Je '42

Metallic arc welding of copper pressure vessels. G. H. Sandberg. il Welding J 21:507-9 Ag '42

COPPERWORK, Architectural

Eighteen miles of sheet copper; expansion joints and flashing for plant of Republic aviation corp. il diags Sheet Metal Worker 33:23-5 Je '42

Ornamental semi-hexagonal tower; New York City's recreational building, East River park. il diags plans Sheet Metal Worker 32:25-7 D '41

Repairing roofs without priority materials; two sprayed on coatings of transparent mastic and slate granules. il Sheet Metal Worker 33:27-8+ O '42

Two noteworthy roofing contracts; interlocking ceramic tile and lead-coated copper ventilators for one contract; mile-long flashing, plus copper tile on the other. il Sheet Metal Worker 33:25-6+ Jl '42

See also
Roofing, Copper

COPRA

Netherlands Indies production of copra. For Comm W 5:29-30 N 22 '41

See also
Coconut oil

COPRECIPITATION. See Precipitation

COPROSMA

Dyes from the species of coprosma. C. D. Mell. Textile Col 64:272-3 Je '42

COPY preparation. See Printing, Practical—Copy preparation

COPY writers. See Advertising copy writers

COPYING processes

Chemistry of duplication; with list of 148 patents. J. Bjorksten. il Chem Ind 50:68-72 Ja '42; Same cond. without patent list. Chem Age (Lond) 46:153-4 Mr 21 '42

Duplicating Flying Fortress work templates; electrolytic transfer process. il Iron Age 150:40 Ag 20 '42

Duplicating templates by the X-ray process; sensitized film over fluorescent lacquer base used in North American Aviation photo-reproduction system. il Automotive & Aviation Ind 86:44-5+ My 15 '42

Electrolytic process of template reproduction; Boeing, Douglas and Vega. il Aero Digest 40:120+ Je '42

Electrolytic transfer process speeds template production; Vega aircraft corp. il Steel 110:56 My 25 '42

Mass production of large-size aircraft templates speeded by advanced electrolytic etching process. R. R. Nolan. S A E J 50:sup43-5 Je '42

Methods of template reproduction; photographic, X-ray and electrolytic methods. C. O. Prest. il Aero Digest 40:240 Mr '42

Photo-copying methods in the drawing office. il Engineer 173:415-16 My 15 '42

Plane templets duplicated by etching; Northrop process. F. M. Gibian and W. Chatten. il diags Am Mach 86:676-80 Je 25 '42; Same abr. Aviation 41:142, 144-5+ Jl '42

Reproducing drawings; black and white (B.W.) direct printing process. Mech Eng 64:135 F '42

Template manufacture; duplicating process developed by Westland aircraft co. il Iron Age 149:60-2 F 5 '42

Templates; rapid process used in aviation industry; electrolytic process, developed by Lockheed Aircraft. A. Klemin. Sci Am 166:254-5 My '42

See also
Blueprints

COPYRIGHT

Copyright law. H. A. Howell. 280p bibliog(p250-1) $5 Bur. of nat. affairs, 2201 M st, N.W. Washington, D.C. '42

Copyrights seized as alien property. Oil Paint & Drug Rep 141:7+ Je 1 '42

COPYRIGHT—*Continued*
Ideas pirate considers printers gullible victims. il Inland Ptr 108:39-40 F '42
See also
Patent laws and legislation
Trade marks

Music

Important things to know about use of copyrighted music in advertising. P. H. Pumphrey. Ptr Ink 197:27, 30+ N 14 '41

COPYRIGHT, International
Copyright law. H. A. Howell. 280p bibliog(p250-1) $5 Bur. of nat. affairs, 2201 M st, N.W. Washington, D.C. '42

CORALS, Fossil
New Permian corals from Kansas, Oklahoma, and Texas. R. C. Moore and R. M. Jeffords. (Bul. 38, pt. 3) p65-120 bibliog(p115-20) Geological survey, Univ. of Kansas, Lawrence '41

CORDAGE
Effect of rate of loading on tensile strength of cord and yarn. M. Castricum and A. N. Benson. bibliog Am Soc T M Proc 41:1214-16 '41
Plymouth Cordage shows buyers how to carry on under priorities. E. G. Roos. il Sales Management 50:40-2 Mr 15 '42
Standards for rot-proofing cordage and jute hessian or canvas. Textile Col 64:35 Ja '42
See also
Manila hemp
Rope

CORDIERITE
Improved ceramic dielectric materials. M. D. Rigterink. bibliog il R Sci Instr 12:527-34 N '41

CORDITE
Manufacture of cordite. il Can Chem & Process Ind 26:576-8 O '42

CORDUROY
Rising fashion for cotton piles. J. Black. il Textile World 92:78-9 O '42

CORE sampling. See Petroleum—Well drilling—Sampling

COREOPSIN
Anthochlor pigments; the pigments of cosmos sulphureus. T. A. Geissman. bibliog Am Chem Soc J 64:1704-7 Jl '42

CORES
Blows molding sand into cores. P. Dwyer. il Foundry 70:62-4+ Mr '42
Chain conveyor speeds shell core production. il Steel 110:92 My 4 '42
Interesting technique used on large motor frame. R. L. Hartford. il Foundry 70:71+ F '42
Motion study; it works in the core room, too; right- and left-hand charts. W. S. Hansen. diag Factory Management 100:91-2 S '42
Mould and core washes. W. Y. Buchanan. diags Engineering 152:176-7 Ag 29 '41; Discussion. Iron Age 148:60 N 27 '41
Principles and practice of core-blowing; abstract. H. H. Jones. Metals & Alloys 14:748+ N '41

CORI ester. See Glucose phosphates

CORK
Accounting problems under priority regulations of production and sales. I. W. Keller. N A C A Bul 23:425-34 D 1 '41
Chemistry of cork; industrial research in Spain. Chem Age (Lond) 47:192-3 Ag 22 '42
Closures and the bottleneck; cork imports. il Mod Packaging 16:47-8 S '42
Composition cork; with list of patents. L. P. Hart, jr. and others. bibliog il Ind & Eng Chem 34:649-58 Je '42
Cork faces trouble. Sci Am 166:67 F '42
Cork for insulation. Product Eng 13:165 Mr '42
Cork from fir. Business Week p78-9 N 7 '42
Cork growing industry for the South. il map Manuf Rec 111:26-7 Ag '42
New OEM order affects cork trade. For Comm W 7:19-20 Ap 18 '42
Spaniards envisage cork pool. For Comm W 8:50 Jl 11 '42
Toward self-sufficiency in cork. G. B. Cooke. il Chem & Eng N 20:956-7 Ag 10 '42
Treating bark corks. E. A. M. Bradford and A. W. Haynes. Chem & Ind 61:369 Ag 29 '42
Why cork is a critical material. F. W. Gustafson. Barron's 21:7 N 24 '41

CORK, Substitutes for
Cork substitute found in product of sugar cane. Sci Am 167:154 O '42
Cork substitute from Brazil? D. R. Crone. For Comm W 7:6-7+ My 30 '42
Substitute for cork and kapok. T. J. McInerney. Barron's 22:5 Ag 31 '42
Substitutes readily available for cork's many uses. Product Eng 13:112 F '42

CORN
Absorption of selenium by corn from astragalus extracts and solutions containing proteins. S. F. Trelease, S. S. Greenfield and A. A. DiSomma. Science 96:234-5 S 4 '42
Butylene glycol from corn by fermentation. il Chem & Met Eng 49:95 O '42
Can waxy corn replace tapioca? For Comm W 7:19 My 16 '42
Chemical examination of corn bran. F. E. Hooper. Ind & Eng Chem 34:728-9 Je '42
Corn-hog coup; ever-normal granary system getting supernormal flow of hogs to wartime markets. Business Week p62+ My 2 '42
Corn loan redemption. Comm & Fin Chr 155:964 Mr 5 '42
Corn situation in Argentina. For Comm W 7:28 My 23 '42
How much corn will go under loan? Barron's 21:6 D 1 '41
How plant breeding programs complicate plant disease problems. N. E. Stevens. bibliog Science 95:313-16 Mr 27 '42
National grain board of Argentina authorized to purchase 1941-42 crop. For Comm W 7:14 Je 20 '42
Nation's food; cereals as food; the chemical composition and nutritive value of maize, rice, rye, and barley. W. P. Ford. bibliog Chem & Ind 60:875-8 D 13 '41
Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64:2144-6 S '42
1941 corn and wheat loans. Comm & Fin Chr 155:1039 Mr 12 '42
Removes insurance requirement on mortgaged corn; Commodity credit corporation ruling. Nat Underw 45:3+ D 4 '41
Waxy get a job; variety of hybrid corn may substitute for tapioca. Business Week p64 My 2 '42
World's corn production and consumption gaining; review of production and trade, 1925-1939. Comm & Fin Chr 155:2316 Je 18 '42

Analysis

Determination of carotene and cryptoxanthin in yellow corn. G. S. Fraps and A. R. Kemmerer. bibliog Ind & Eng Chem Anal ed 13:806-9 N 15 '41
Studies on the carotenoids; spectrophotometric determination of the carotenoids of yellow corn grain. J. W. White, jr., A. M. Brunson and F. P. Zscheile. bibliog Ind & Eng Chem Anal ed 14:798-801 O 15 '42

Drying

Kiln drying corn for distilleries; abstract. S. L. Adams, W. H. Stark and P. Kolachov. Chem & Met Eng 49:158+ Jl '42

Moisture content

Precision instruments speed quality control; determining sweet corn maturity by refractometer and new semi-automatic moisture tester. J. K. Cameron, K. G. Dykstra and J. E. Fix. Food Ind 14:60-3+ Jl '42

Prices

Corn price advance is declared unjustified by Secretary Wickard. Comm & Fin Chr 155:676 F 12 '42

CORN—*Continued*

Testing

Precision instruments speed quality control; determining sweet corn maturity by refractometer and new semi-automatic moisture tester. J. K. Cameron, K. G. Dykstra and J. E. Fix. Food Ind 14:60-3+ Jl '42

CORN, Frozen

Brief summaries of AMS standards. Food Ind 14:66-7 Jl '42

Determining the maturity of frozen vegetables; a rapid objective method for whole-kernel corn. F. A. Lee, D. DeFelice and R. R. Jenkins. Ind & Eng Chem Anal ed 14:240-1 Mr 15 '42

CORN as fuel

Argentina manufacturing corn briquets. For Comm W 8:23 Ag 1 '42

CORN exchange bank trust company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:20 O 17 '42

CORN insurance. See Insurance, Corn

CORN products

Corn refiners limited by capacity. Barron's 22:12 F 2 '42

See also

Corn sirup
Cornstarch
Zein

CORN products plants

Scheduled lubrication saves oil, machinery, and time; American maize-products company. J. L. Looney. il Factory Management 100:115-17 My '42

CORN products refining company

Annual report. Comm & Fin Chr 155:1507 Ap 13 '42

Another look at your company. Mag of Wall St 70:234 Je 13 '42

F.T.C. hits glucose marketing scheme. Oil Paint & Drug Rep 141:7+ Mr 30 '42

Investment audit. Barron's 22:13 F 9 '42

Investment value of a blue chip stock. C. MacDonald. Barron's 22:7-8 O 19 '42

CORN silker

Corn silker for canners. il Food Ind 14:85 F '42

CORN sirup

Corn sirups of high fermentability. R. W. Kerr, H. Meisel and N. Schink. Ind & Eng Chem 34:1232-4 O '42

Enzyme-converted corn sirup produces better glacé fruit. D. K. Tressler. il Food Ind 14:60-2 Je '42

Structure of the dextrins isolated from corn sirup. M. Levine, J. F. Foster and R. M. Hixon. bibliog Am Chem Soc J 64:2331-7 O '42

Analysis

Determination of moisture in sugar products; corn sugar "70" or "80." J. E. Cleland and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 14:124-7 F 15 '42

Determination of moisture in sugar products; filter paper method for corn sirup. J. W. Evans and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 13:855-7 D 15 '41

Determination of moisture in sugar products; maltose and dextrose. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:27-30 Ja 15 '42

Determination of moisture in sugar products; use of Filter-Cel for corn sirup. J. E. Cleland and W. R. Fetzer. bibliog il diags Ind & Eng Chem Anal ed 13:858-60 D 15 '41

CORN sugar. See Dextrose

CORNCOBS

Plastics from agricultural materials. O. R. Sweeney and L. K. Arnold. bibliog il diags Iowa Eng Exp Sta (Ames) Bul 154:24-46 '42

CORNEA

Physiologic studies on the cornea. D. G. Cogan and V. S. Kinsey. Science 95:607-8 Je 12 '42

CORNELIUS, David William, 1883-1942

Sketch. M. W. White. Science 96:419-20 N 6 '42

CORNELIUS, Jack

Jack of many handicaps. por Adv & Sell 35:38, 40 Ja '42

CORNELL-DUBILIER electric corporation

Debentures offered. Comm & Fin Chr 155:695 F 14 '42

CORNELL university

Gifts and bequests for 1941. Science 95:474 My 8 '42

Olin hall of chemical engineering at Cornell university dedicated on October 3, 1942. il Mech Eng 64:827 N '42

CORNETS

Directivity and the acoustic spectra of brass wind instruments. D. W. Martin. diags Acoustical Soc Am J 13:309-13 Ja '42

Lip vibrations in a cornet mouthpiece. D. W. Martin. il diags Acoustical Soc Am J 13:305-8 Ja '42

CORNICES

Wood cornices, their design and construction. R. J. Alexander. diags Am Bld 64:52-3+ Ag '42

CORNSTARCH

Can waxy corn replace tapioca? For Comm W 7:19 My 16 '42

Corn sirups of high fermentability. R. W. Kerr, H. Meisel and N. Schink. Ind & Eng Chem 34:1232-4 O '42

Dextrines and semi-dextrines from minor starches; standard processes with potato and maize starch. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:189-91 Ap 11 '42

Enzyme conversions of cornstarch. E. P. Gillan. Paper Tr J 115:109-11 O 1 '42; Same cond. Paper Ind 24:742+ O '42; Abstract. Oil Paint & Drug Rep 142:7 O 12 '42

Fractionation of waxy and ordinary cornstarch. C. G. Caldwell and R. M. Hixon. bibliog Am Chem Soc J 63:2876-80 N '41

Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64:2144-6 S '42

Waxy starch of maize and other cereals; a possible competitor for tapioca. R. M. Hixon and G. F. Sprague. bibliog il Ind & Eng Chem 34:959-62 Ag '42

By-products

Gluten meal in paper making. C. W. Stewart. Chem Age (Lond) 45:212 O 18 '41

CORONA (electricity)

Blown generator coils show corona cutting. H. A. Knutsen. il diag Elec W 117:530 F 7 '42

Corona discharge on liquid dielectrics; materials responsible for increases in power factor. J. Sticher and J. D. Piper. bibliog diag Ind & Eng Chem 33:1567-74 D '41

Grid-controlled corona. R. M. Ashby and A. O. Hanson. diag R Sci Instr 13:128 Mr '42

Maintenance and corona blackout; use of semi-conducting material, Coronox, to protect windings. J. S. Askey. il diags Power Pl Eng 46:76-9 Ag '42

Pulses in negative point-to-plane corona. L. B. Loeb, A. F. Kip and G. G. Hudson. bibliog il diags Phys R 60:714-22 N 15 '41

Streamering in negative corona. W. H. Bennett. J Ap Phys 13:199-200 Mr '42

Threshold field studies of various positive corona phenomena. K. E. Fitzsimmons. bibliog Phys R 61:175-82 F 1 '42

CORONENE

Synthesis of 2,7-naphthalenedialdehyde; an attempted synthesis of coronene. J. H. Wood and J. A. Stanfield. Am Chem Soc J 64:2343-4 O '42

Ultraviolet absorption spectra of coronene. J. W. Patterson. Am Chem Soc J 64:1485-6 Je '42

CORONERS

Dust problems in industry as related to the coroner. C. O. Sappington. Ind Med 11:127-30 Mr '42

CORPORATION law

Cases and materials in the law of corporation finance. A. A. Berle, jr. and R. Magill. new ed 912p $6.50 West '42

Corporate executives' compensation. G. T. Washington. 519p $7 Ronald press '42

Directors' indemnity; corporate policy or public policy? G. E. Bates and E. M. Zuckert. Harvard Business R 20 no 2:244-64 [Ja] '42; Abstract. Management R 31:141-2 Ap '42

Investor and the Securities act. H. V. Cherrington. 255p bibliog(p247-51) $3.25; pa $2.50 Am. council on public affairs, Washington, D.C. '42

Randall *v.* Bailey: New York court of appeals. J Account 74:473-7 N '42

See also

Banking law
Commercial law
Corporations—Reorganization
Dividends
Proxies
Public utilities—Law
Public utilities commissions
Railroad law
Securities—Law
Trusts, Industrial

Canada

Company law of Canada. C. A. Masten and W. K. Fraser. 4th ed 1041p $18 Carswell co. '41

New York (state)

Corporation laws of New York; revised to May 1941. 345p pa $1 Commerce clearing house '41

New York laws affecting business corporations, rev. to May 24, 1942. J. B. R. Smith, ed. 23d ed 579p pa $2 United States corp. co, New York '42

Ohio

Treatise on the law of corporations, based on the General corporation act of Ohio, with all amendments to 1942. E. G. Davies. 2v $25 W. H. Anderson co, Cincinnati '42

CORPORATION schools

Vestibule school for greater war production; Warner & Swasey co. W. Seeley. il Iron Age 150:60-2 S 10 '42

CORPORATIONS

Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:60-70 [S] '42

See also

Banks and banking
Building and loan associations
Corporation law
Electric utilities
Gas companies
Government ownership
Insurance companies
Insurance trusts
Investment trusts
Oil companies
Proxies
Public utilities
Railroads
Securities—Law
Stockholders
Stocks
Street railroads
Trust companies
Trusts, Industrial
Water companies

Accounting

Accountants and accounts. Economist 143:392-3 S 26 '42

Accounting for interest during construction. J Account 73:466-7 My '42

Accounting for special reserves arising out of the war. J Account 73:155-9 F '42

American accounts. Economist 143:178-9 Ag 8 '42

Companies' income tax. Economist 141:722-3 D 13 '41

Company control by publicity. Economist 142:574-5 Ap 25 '42

Corporation and manufacturing accounting. H. A. Finney. 534p $4 Prentice-Hall '42

Corporations and the 1941 taxes. J. K. Lasser. il Dun's R 49:5-14 O '41

Current practice in accounting for special war reserves; based upon examination of reports of 429 industrial companies, published in 1942. J Account 74:125-32 Ag '42

Difficulties of measuring profits in a wartime economy. W. A. Staub. il Dun's R 50:5-10+ Jl '42

Directors and auditors. Economist 142:507-8 Ap 11 '42

Equity invested capital in merger of corporations. J Account 74:263 S '42

Interrelation of taxes, costs, profits. W. J. Casey. N A C A Bul 23:1465-79 Jl 15 '42

Last call for last-in; how to measure risk of continuing old inventory systems. A. Cotter. Barron's 21:7 D 15 '41

Liquidation of bond indebtedness by issue of par value stock. J Account 74:68-9 Jl '42

Need for post-war reserves. Nat City Bank p93-5 Ag '42; Abstract. Trusts & Estates 75:125-6 Ag '42

Present value as a factor in the selection of a refunding plan; case study of a regulated hydroelectric utility with a single bond issue outstanding. E. S. Loane and A. C. Thomas. J Account 74:230-41 S '42

Problem of rising inventories. Nat City Bank p129-30 N '41; Same abr. Credit & Fin Management 43:32 D '41

Problems of capital surplus. C. V. Koehn. J Account 73:321-6 Ap '42

Profits or capital tax? inadequate depreciation charges lead to dissipation of capital. F. M. Dannenberg. Trusts & Estates 74:19-21 Ja '42

T.N.E.C. monograph no. 9, taxation of corporate enterprise. I. Sack. J Account 74:58-61 Jl '42

Tip to controllers; Institute warns of need for reserves to meet postwar problems. Business Week p63-4 Ja 24 '42

Treatment of debt discount and premiums upon refunding. R. E. Healy. J Account 73:199-212 Mr '42; Abstract. Pub Util 29:698-9 My 21 '42

War and accounting procedures. G. O. May. J Account 73:393-400 My '42

Wartime accounting; government war contracts, wartime financial statements, income taxes, price control, and priorities and allocations. G. N. Farrand. J Account 73:401-28 My '42

See also

Bank accounting
Cost accounting
Financial statements
Inventories
Profit
Public utilities—Accounting
Surplus

Close corporations

Converting close corporations into partnerships or individual proprietorships. W. H. Whitney. J Account 72:514-23 D '41

Directors

Democracy in directorates; an alternative to managerial revolution. Trusts & Estates 75:359 O '42

Directors' indemnity; corporate policy or public policy? G. E. Bates and E. M. Zuckert. Harvard Business R 20 no 2:244-64 [Ja] '42; Abstract. Management R 31:141-2 Ap '42

Directors' remuneration. Economist 142:615 My 2 '42

Need for liability insurance for corporation directors. Weekly Underw 145:1110-11 N 8 '41

Tax-free fees. Economist 143:244-5 Ag 22 '42

Finance

American industry at war. Barron's 22:8-9 Ag 3 '42

Attraction of stocks in spite of high taxes; latter tend to stabilize, and inflation to boost, corporate earnings. A. A. Mol. Barron's 22:5-6 Ag 24 '42

Blueprint for freedom. E. E. Wilson. Trusts & Estates 74:466-7 My '42

Calls for proxy rule changes to prevent corporate mismanagement. G. Purcell. Comm & Fin Chr 156:893 S 10 '42

Cleaning house for 1942 taxes; practical steps business can take to minimize impact of new levies. C. J. Siegel. Barron's 22:18+ My 11 '42

Companies paying no excess profits tax. H. Lawrence. Barron's 22:20 Mr 30 '42

Company earnings down 20% in first half. Comm & Fin Chr 156:821 S 3 '42

Company notes. Published in weekly numbers of the Economist

Conference board finds third quarter net of industrial companies slightly higher. Comm & Fin Chr 154:1201+ N 27 '41

CORPORATIONS—Finance—*Continued*

Corporate earning power this year; effect of House committee tax proposals. H. Lawrence. Barron's 22:20 My 11 '42

Corporate earnings and dividends, 1941. Fed Res Bul 28:291-8 Ap '42; Excerpts. Comm & Fin Chr 155:1632 Ap 23 '42

Corporate earnings drop in first half. Comm & Fin Chr 156:897 S 10 '42

Corporate earnings, first quarters, 1940-1942. Mag of Wall St 70:247 Je 13 '42

Corporate earnings higher in 1941. Survey of Cur Business 21:7-8 D '41

Corporate earnings in 1941. Survey of Cur Business 22:7-8 Mr '42

Corporate income and federal taxes; tax reserves and adjustments prevented earnings from making year-end rise. Dun's R 50:22 Mr '42

Corporate profits and national income estimates, quarterly, 1938-42. T. Smith and C. Merwin. Survey of Cur Business 22:13-18 Je '42

Corporate profits show 3d quarter advance. Comm & Fin Chr 154:1563 D 18 '41

Corporate profits, taxes and working capital. Nat City Bank p142-3 D '41

Corporate tax compromise sought; lower tax or post-war credit. G. B. Bryant, jr. Barron's 22:4-5 Je 1 '42

Corporation finance. O. P. Decker. 479p $4 Am. inst. of banking, New York '41

Corporations restore only eighth of lost savings; reduced by $31 billion 1930-38. Comm & Fin Chr 156:1271 O 8 '42

Crucial inventory; tabulation showing inventory, cash, and net working capital for some 60 large companies. Business Week p72-3 Mr 28 '42

Dividend casualties; which companies? how much? J. S. Williams. Mag of Wall St 70:66-7 My 2 '42

Dividend prospects in the light of third quarter earnings. J. C. Clifford. il Mag of Wall St 71:67-9, 115-17+ O 31-N 14 '42

Earnings and incentive. Economist 141:507-8 O 25 '41

Earnings as dividends; source of payment may be illusory. E. L. Maas. Trusts & Estates 74:415-17 Ap '42

Earnings of leading companies in 1941, and comparisons with 1940. Nat City Bank p43-7 Ap '42

Earnings of manufacturing companies in 1941 and comparisons with 1940. Nat City Bank p29-32 Mr '42

Earnings suffer first quarter of 1942. Business Week p79+ My 2 '42

Estimated first quarter net incomes of 481 companies having common stocks listed on the New York stock exchange, by industrial groups; tabulation. Mag of Wall St 70:293 Je 27 '42

Expansion funds. Business Week p62-3 Ja 24 '42

Financial industry, now and after the war. A. H. Gordon. Inv Banking 12:9-12 O '42

Financial policies of business enterprise. W. B. Taylor. 867p $4.25 Appleton-Century '42

Financial policy of corporations. A. S. Dewing. 4th ed 2v $10 Ronald press '41

First quarter corporate earnings down despite gains before federal taxes. Comm & Fin Chr 155:2214 Je 11 '42

First quarter earnings round-up; clues to 1942 profits and dividends. J. C. Clifford. Mag of Wall St 70:112-14+, 170-1 My 16-30 '42

First quarter earnings; with comparisons for 1941. Nat City Bank p53-5 My '42

Forecasting 1942 earnings now; net profits of companies in excess profits category. H. Lawrence. Barron's 22:3 My 18 '42

Half year's earnings; net income of leading corporations; with comparisons for 1941. Nat City Bank p90-2 Ag '42; Excerpt (table). Trusts & Estates 75:175 Ag '42

How industrial profits compare with 1940; composite figures often misleading. R. S. Conway. Barron's 21:20 D 15 '41

How investors value war earnings. H. Lawrence. Barron's 22:20 Ag 31 '42

How war will affect leading industries. H. Lawrence. Barron's 21:3-4 D 22 '41

Increased earnings for NYSE listed companies. Comm & Fin Chr 155:1227 Mr 26 '42

Increased taxes impose ceiling on corporate income; statistical data, 63 representative corporations. Steel 110:54-5 Je 22 '42

Industrial profits in 1941; with comparisons, 1931-1940. Economist 142:sup6-7 Mr 14 '42

Industrial profits up slightly for year. Barron's 22:1 Mr 2 '42

Late 1941 earnings reports of representative companies. Mag of Wall St 69:661 Mr 21 '42

Leaders and laggards in corporate earning power. J. C. Clifford. Mag of Wall St 69:129-31+ N 15 '41

Liquidity of war producers. C. B. Nickerson. Harvard Business R 20 no 3:369-74 [Ap] '42

Lower first quarter company profits reflects mounting burden of increased taxes. Comm & Fin Chr 155:1689 Ap 30 '42

Machine tool maker's dilemma; Warner & Swasey has boosted turret-lathe production 700 per cent; what happens to W. & S. while they are wearing out? il Fortune 26:104-7+ O '42

Manufacturing facilities more effectively employed than ever, Conference board finds. Comm & Fin Chr 156:812 S 3 '42

Market evaluation of war earnings and dividends. J. C. Clifford. Mag of Wall St 70:437-9+ Ag 8 '42

Market valuation of war earnings. W. Gates. Mag of Wall St 69:422-4+ Ja 24 '42

Modern corporation finance. W. H. Husband and J. C. Dockeray. 853p $4.25 R. D. Irwin, Chicago '42

Need for post-war reserves. Nat City Bank p93-5 Ag '42; Abstract. Trusts & Estates 75:125-6 Ag '42

New corporate security issues; proposed uses of proceeds, yearly 1934-1941, monthly June 1940-Dec. 1941. Fed Res Bul 28:247 Mr '42 [cont monthly]

New industrial set-up in 1942; changing character of production in transition to full war effort. W. Gates. Mag of Wall St Manual p3-5 Ap '42

New limitations on war order profits. J. C. Clifford. Mag of Wall St 70:8-10+ Ap 18 '42

New statistics on quarterly earnings and dividends of large corporations; tables giving annual figures, 1929-1938 and quarterly, 1939-1941. Fed Res Bul 28:214-17, 248 Mr '42 [cont monthly]

New wave of pessimism hits stock market. G. G. Munn. Bankers M 143:449-50 N '41

Nine months' industrial profits down 30%. Barron's 22:1 N 9 '42

1941 corporation net profits 17% above 1940; with table giving figures by industrial groups. Comm & Fin Chr 155:1425+ Ap 9 '42

1942 earnings and dividend prospects, in the face of freezing of profits, wages and prices. W. Gates. Mag of Wall St 70:60-2, 103-4 My 2 '42

1942 mid-year security appraisals and dividend forecasts. Mag of Wall St 70:385-97+, 443-51+, 493-504+, 541-53+ Jl 25-S 5 '42

Only manufacturing corporations show net savings between world wars, Board reports. Comm & Fin Chr 156:1641 N 5 '42

Pennroad payoff; stockholders win decision against Pennsylvania railroad. Business Week p64-5 D 27 '41

Plan for financing small business. R. L. Weissmann. Bankers M 144:491-4 Je '42

Potential leaders of recovery. F. K. Dodge. Mag of Wall St 70:222-3+ Je 13 '42

Price-wage control bullish for stocks. B. Ravits. Barron's 22:3 O 19 '42

Profits, a new series. Economist 142:720-1, 798-9 My 23, Je 6 '42

Profits and dividends of industrial corporations; new series; quarterly, 1929-1941. Survey of Cur Business 22:21 Ap '42

Profits of large industrial corporations, January-September, 1940 and 1941. Fed Res Bul 27:1216 D '41

CORPORATIONS—Finance—*Continued*

Profits, prejudice and production; tables giving Economist profits index quarterly, 1938-1941, profits by industrial groups, 1940 and 1941, and distribution of profits and return on capital, quarterly, 1940 and 1941. Economist 142:110-11 Ja 24 '42

Proposes government machinery to guide corporate financing. G. Purcell. Comm & Fin Chr 154:1360 D 4 '41

Report of industrial securities committee, I.B.A. Comm & Fin Chr 154:1443 D 11 '41

Reported 1941 net incomes of 534 companies having common stocks listed on the New York stock exchange; assembled by industrial groups. Mag of Wall St 69:709 Ap 4 '42

Reports on shipbuilding, manufacture of engines and turbines, lumber and lumber products and cement; SEC Survey of American listed corporations. Comm & Fin Chr 155:2318 Je 18 '42

Reserves will cushion higher taxes. H. Lawrence. Barron's 22:5 Mr 23 '42

Restatement of earnings; war and post-war taxes as greater factor in corporate analysis. E. L. Maas. Trusts & Estates 74:297-8 Mr '42

Safeguarding against dividend casualties; tabulation covering 1940 earnings, interim earnings, dividends paid or declared to Nov. 18, and current price times dividend ratios. Mag of Wall St 69:191-3, 253-5, 314-16 N 29-D 27 '41

SEC issues survey of listed corporations. Comm & Fin Chr 155:1938 My 21 '42

Should your company reduce its dividend? L. O. Hooper. Mag of Wall St 70:554-6+ S 5 '42

Stabilised profits. Economist 143:365-6 S 19 '42

Suppose profits are limited to 6 per cent; effects on individual companies. B. M. Fullerton. Mag of Wall St 69:585-7+ Mr 7 '42

Tax uncertainties in corporate financing. D. T. Smith and M. Mace. Harvard Business R 20 no 3:315-26 [Ap] '42

Taxes cut deeper; but most corporations did better in 1941 than in 1940. Business Week p82-3 F 14 '42

Taxes cut deeper into profits. Business Week p98 N 7 '42

Taxes cut net. Business Week p60-1 Ag 1 '42

Third quarter earnings; net income of leading corporations for the first nine months, 1942, with comparisons for 1941. Nat City Bank p125-6 N '42

U.S. court rules discount in exchange of bonds for stock deductible from income tax. Comm & Fin Chr 156:1272 O 8 '42

Varied profit potentials under proposed new taxes. B. M. Fullerton. Mag of Wall St 70:132-3+ My 16 '42

What 80% corporate tax ceiling means to profits and dividends. S. Devlin. Mag of Wall St 70:635-7+ O 3 '42

What 1941 reports disclose for 1942. W. Gates. Mag of Wall St 69:481-3+, 537-9+, 593-5+ F 7-Mr 7 '42

Why corporate profits will be better than you think. J. C. Clifford. Mag of Wall St 70:375-7+ Jl 25 '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:306-42 O '42; Abstract. Management R 31:428-30 D '42

See also

Dividends
Government loans to industry
Profit
Public utilities—Finance
Railroads—Finance
Stockholders
Stocks
Surplus

Reorganization

McKesson & Robbins reorganization. W. H. Baldwin. Harvard Business R 20 no 4:473-81 [Jl] '42

Supreme court ruling on tax deductions of reorganized companies. Comm & Fin Chr 155:781 F 19 '42

When reorganization occurs; powers and duties of trustees to participate. R. P. Schur. Trusts & Estates 74:409-10, 412-14 Ap '42

See also

Railroads—Receiverships

Reports and yearbooks

Accountants and accounts. Economist 143:392-3 S 26 '42

American accounts. Economist 143:178-9 Ag 8 '42

Auditing under wartime conditions; joint report of committee on auditing procedure of American institute of accountants and committee on practice procedure of New York state society of certified public accountants. J Account 74:113-24 Ag '42

Company control by publicity. Economist 142:574-5 Ap 25 '42

Directors and auditors. Economist 142:507-8 Ap 11 '42

How some companies humanize annual reports. il Ind Marketing 27:19-21 Ja '42

Human interest in annual reports is aid to employe relations. C. D. Pendergrast. il Inland Ptr 108:43-6 F '42

OPA seeks financial data from corporations. Comm & Fin Chr 155:1871 My 14 '42

Quarterly reports may be suspended. Comm & Fin Chr 155:1940 My 21 '42

12 ideas for making stockholder reports attractive, readable. il Ptr Ink 201:20-1, 48-9 O 2 '42

Useless earnings reports. H. Lawrence. Barron's 22:20 My 4 '42

Wartime reports to stockholders are passed by U.S. censor. P. H. Erbes, jr. il Ptr Ink 199:13-14+ Ap 3 '42

What the new SEC proxy rules will mean to you. L. Stern. Mag of Wall St 70:652-3+ O 3 '42

See also

Employees, Reports to

Taxation

Advertising expense and corporate income tax returns; clarifying explanation regarding deductibility. Ptr Ink 200:19+ S 4 '42; Same. Adv & Sell 35:16a-16b S '42; Same. Ind Marketing 27:32, 35-6 S '42

Advertising expenses and your tax bill. Management R 31:351-3 O '42

Avoidance of double taxation: new convention with Canada. J. H. Barkmeier. For Comm W 8:10-11+ Ag 22 '42

Bond salesman has some more to say about taxes. Comm & Fin Chr 155:1615 Ap 23 '42

Challenge of 1942 taxes to corporate profits. W. Gates. Mag of Wall St 69:358-60+ Ja 10 '42

Cleaning house for 1942 taxes; practical steps business can take to minimize impact of new levies. C. J. Siegel. Barron's 22:18+ My 11 '42

Companies' income tax. Economist 141:722-3 D 13 '41

Converting close corporations into partnerships or individual proprietorships. W. H. Whitney. J Account 72:514-23 D '41

Corporate earning power this year; effect of House committee tax proposals. H. Lawrence. Barron's 22:20 My 11 '42

Corporate tax proposals. Nat City Bank p66 Je '42

Corporate taxation and procedure in Pennsylvania. L. P. Stradley and others. v 2 660p $10 Commerce clearing house '42

Corporate taxes, United States versus Great Britain. Pub Util 30:435-7 S 24 '42

Corporations and the 1941 taxes. J. K. Lasser. il Dun's R 49:5-14 O '41

Corporations obtain tax relief; Senate bill carries provisions for backward adjustment of payments. G. B. Bryant, jr. Barron's 22:5 O 12 '42

Effect of latest tax rates proposed by the House committee. H. Lawrence. Barron's 22:20 Jl 20 '42

CORPORATIONS—Taxation—*Continued*

Effect of tax ceiling offset by lower profit margins on war contracts. H. Lawrence. Barron's 22:5-6 S 7 '42

Employees' trusts under the new tax bill; enactment would compel discontinuance and liquidation. P. G. Evans. Trusts & Estates 75:151-3 Ag '42

Equal sacrifice for whom? H. Lawrence. Barron's 22:20 Ap 6 '42

Fiduciary Counsel offers new tax plan; post-war recovery bonds. Comm & Fin Chr 155:1944 My 21 '42

Five stocks cheap under highest taxes; Chrysler, Inland Steel, Borg Warner, W. T. Grant, National Distillers Products. P. Dobbs. Mag of Wall St 70:240-1+ Je 13 '42

Gearing your investment capital to meet new tax problems. J. S. Williams. Mag of Wall St 69:692-3+ Ap 4 '42

High federal corporation taxes may cause larger bank borrowing, Conference board finds. Comm & Fin Chr 156:105 Jl 9 '42

House group works to relieve corporate tax. Comm & Fin Chr 155:2393+ Je 25 '42

How new tax bill compares with present law. G. B. Bryant, jr. Barron's 22:9 O 26 '42

How to estimate the new taxes. O. Ely. Pub Util 29:691-2 My 21 '42

Increased taxes impose ceiling on corporate income; statistical data, 63 representative corporations. Steel 110:54-5 Je 22 '42

Industry paying more than half of earnings in income, profits taxes. Steel 110:50-1 Ja 26 '42

Interrelation of taxes, costs, profits. W. J. Casey. N A C A Bul 23:1465-79 Jl 15 '42

Killing the goose that lays the golden eggs. L. Stern. Mag of Wall St 70:528-30+ S 5 '42

Lower first quarter company profits reflects mounting burden of increased taxes. Comm & Fin Chr 155:1689 Ap 30 '42

Market implications of the new tax bill. L. O. Hooper. Mag of Wall St 71:112-14+ N 14 '42

Morgenthau charges attempt to escape war time taxation by some corporations. Comm & Fin Chr 155:2126 Je 4 '42

New limitations on war order profits. J. C. Clifford. Mag of Wall St 70:8-10+ Ap 18 '42

New preferred stock yardstick; former methods of determining safety margin outmoded by present taxes. C. MacDonald. Barron's 22:7-8 My 4 '42

New York income and franchise taxes. B. Harrow and I. Sack. 862p $10 Alexander pub. co, New York '41

1942 mid-year special security appraisals and dividend forecasts. Mag of Wall St 70:385-97+, 443-51+, 493-504+, 541-53+ Jl 25-S 5 '42

1942 Revenue act; adverse effect of federal taxes on earnings of utility companies as compared with earnings of manufacturing enterprises. C. W. Kellogg. Edison Elec Inst Bul 10:181-2 My '42

Proposed changes in corporation tax. L. J. Freeman. Barron's 22:20 Jl 27 '42

Question: why tax business? L. Owen. Bankers M 144:202-7 Mr '42

Recommendations for new tax legislation; statement of Walter A. M. Cooper, chairman of the committee on federal taxation of the American institute of accountants, before the Senate finance committee. J Account 74:202-9 S '42

Review of recommendations for revision of the internal revenue code. T. G. Thurston. J Account 73:489-501 Je '42

Rise in taxes. Nat City Bank p126 N '42

Significance of 1942 tax law to investors. Comm & Fin Chr 156:1618+ N 5 '42

Silver lining in the war tax bill. Comm & Fin Chr 156:1543 O 29 '42

Stable base of net exempt earnings. H. Lawrence. Barron's 22:13 Jl 6 '42

Stockholders' forum; growing demand by shareholders for a real voice in corporate affairs and a square deal from their government. Mag of Wall St 70:180-2 My 30 '42

Stocks face war taxation. H. Lawrence; L. Tomlinson. Barron's 21:3-4 D 15 '41

Suppose profits are limited to 6 per cent; effects on individual companies. B. M. Fullerton. Mag of Wall St 69:585-7+ Mr 7 '42

Supreme court ruling on tax deductions of reorganized companies. Comm & Fin Chr 155:781 F 19 '42

Supreme court upholds Capital stock tax act. Comm & Fin Chr 155:39 Ja 1 '42

Tax casualties; with table giving effect of proposed taxes on representative companies. W. Gates. Mag of Wall St 70:186-7 My 30 '42

Tax deductions made for advertising. Comm & Fin Chr 156:810 S 3 '42

Tax effect in renegotiation of war contracts; statement of policy of Bureau of internal revenue. J Account 74:479-80 N '42

Tax impact deferred. H. Lawrence. Barron's 22:20 Mr 16 '42

Tax strangulation and the business corporation. W. J. Herrman. Pub Util 30:411-16 S 24 '42

Tax uncertainties in corporate financing. D. T. Smith and M. Mace. Harvard Business R 20 no 3:315-26 [Ap] '42

Taxation of war profits. Nat City Bank p55-9 My '42

Taxes: 26 billions on the line. Business Week p15-16 O 24 '42

T.N.E.C. monograph no. 9, taxation of corporate enterprise. I. Sack. J Account 74:58-61 Jl '42

Treasury gives in on average earnings option. E. Blair. Barron's 22:4 Mr 2 '42

Treasury's corporate tax proposals drastic. Barron's 22:20 Mr 9 '42

Varied profit potentials under proposed new taxes. B. M. Fullerton. Mag of Wall St 70:132-3+ My 16 '42

Varying effects of new taxes on common stocks. C. H. Owen. Mag of Wall St 70:333-5+ Jl 11 '42

Warns high corporate taxes planned will kill incentive to expansion so vital to war effort. A. W. Robertson. Comm & Fin Chr 155:2193+ Je 11 '42

Wartime guides for your business; when a partnership may be preferable to corporate form of organization. W. H. Hillyer. Barron's 22:3-4 O 26 '42

Washington fiscal policy; its war and postwar aims. G. Colm and G. M. Alter. Fortune 26:122-3+ O '42; Excerpts. Trusts & Estates 75:343-4 O '42

What 80% corporate tax ceiling means to profits and dividends. S. Devlin. Mag of Wall St 70:635-7+ O 3 '42

Your corporation tax. J. K. Lasser. 1942 ed 144p pa $1 Simon & Schuster '42

See also

Cooperative associations—Taxation

Excess profits tax

Insurance companies—Taxation

Mine taxation

Public utilities—Taxation

CORRELATION (geology)

Correlation and metamorphism of the Thomson formation, Minnesota. G. M. Schwartz. bibliog map Geol Soc Bul 53:1001-20, pl 1-4 Jl '42

Correlation charts prepared by the Committee on stratigraphy of the National research council. Geol Soc Bul 53:429-33 Mr '42

Correlation of the outcropping cretaceous formations of the Atlantic and Gulf Coastal plain and trans-Pecos Texas. L. W. Stephenson and others. Geol Soc Bul 53:435-48, pl 1 bibliog(p444-7) Mr '42

Correlation of the Silurian formations of North America. C. K. Swartz and others. bibliog fold chart Geol Soc Bul 53:533-8 Ap '42

CORRELATION (geology)—*Continued*

Distribution of helium and radioactivity in rocks; mineral separates from the Cape Ann granite. N. B. Keevil. bibliog Am J Sci 240:13-21 Ja '42

Interbasin Pennsylvanian correlations, Illinois and Iowa. J. M. Weller and others. il Am Assn Pet Geologists Bul 26:1585-93 O '42

New Devonian (Hamilton) correlations. G. A. Cooper and A. S. Warthin. diags map Geol Soc Bul 53:873-88 bibliog(p887-8) Je '42

Permian of west Texas and southeastern New Mexico; regional correlations. P. B. King. bibliog maps Am Assn Pet Geologists Bul 26:664-711 Ap '42

Some Silurian correlations in lower Mississippi drainage basin. J. R. Ball. bibliog il map Am Assn Pet Geologists Bul 26:1-18 Ja '42

CORRELATION (statistics)

Accumulating cubes with punch cards. M. M. Sandomire. Am Statis Assn J 36:507-14 D '41

Added column method for computing multiple correlation constants. J. H. Smith. 32 numb l pa 55c Univ. of Chicago bookstore, Chicago '41

Correlation analysis. A. E. Treloar. 64 numb l $1.50 Burgess pub. co, Minneapolis '42

Correlation analysis by margins. E. J. Broster. Am Statis Assn J 37:359-66 S '42

Methods of correlation analysis. M. Ezekiel. 2d ed 531p bibliog(p522) $5 Wiley '41

Rapid method of correlation for continuous time series; tests on rainfall-tree growth data. W. S. Glock. Am J Sci 240:437-42 Je '42

CORRESPONDENCE schools and courses

Advertising

Coupons in advertising prove to be mine of information. P. V. Barrett. il Ptr Ink 200: 22+ S 11 '42

CORRESPONDENT banks. See Banks and banking—Correspondent banks

CORRONIZING. See Metal protection

CORROSION and anti-corrosives

Apparatus for distillation of corrosive liquids as used for purification of chlorosulfonic acid. A. W. Hixson and A. H. Tenney. diag Ind & Eng Chem Anal ed 14:345 Ap 15 '42

Care of flux in light alloy welding. diags Iron Age 150:49-52 Jl 16 '42

Casing corrosion in oil fields producing sour gas. T. D. Bailey and A. M. Crowell. diags map Oil & Gas J 41:31-4 O 15 '42

Cathodic protection. R. H. Brown and R. B. Mears. il diags Electrochem Soc Trans 81 (preprint 19):269-95 bibliog (73 references, p294-5) Ap '42

Chromate corrosion inhibitors in bimetallic systems; compared by a scoring method based on visual observations. M. Darrin. bibliog il Ind & Eng Chem Anal ed 13: 755-9 N 15 '41

Corrosion control with calgon at Thomaston; abstract. E. Thompson. Water Works & Sewerage 88:495-6 N '41

Corrosion in the cooling system of power rectifiers; abstract. H. D. Holler. Chem & Met Eng 49:171-2 F '42

Corrosion-inhibiting additive for clear lacquers, nitrocellulose solutions, and alcoholic shellacs. J. M. Crowe. Chem Ind 50:792 Je '42

Corrosion inhibitor for lacquers. Metal Finishing 40:450-1 Ag '42

Corrosion inhibitors. Pulp & Pa of Can 42: 753 N '41

Effect of inhibitors on the rate of oxidation of copper by oxygen in phosphoric acid solutions. R. W. Lawrence and J. H. Walton. bibliog J Phys Chem 46:609-16 Je '42

Gas service manual; corrosion in gas water heaters. W. L. Riehl. Gas Age 88:34 N 20 '41

Influence of the steel-base composition on the rate of formation of hydrogen-swells in canned-fruit tinplate containers. T. P. Hoar, T. N. Morris and W. B. Adam. bibliog diags Iron & Steel Inst J 140:55-92, pl 9 no 2 '39; 144:133-55 no 2 '41; Discussion. 140:93-4 no 2 '39

Internal corrosion chief enemy of storage equipment. diag Oil & Gas J 40:177-8 Ap 30 '42

Lacquer inhibitor; eliminates need for shipping tin-lined drums. Chem & Met Eng 49:140 Je '42

Maintenance conserves strategic metals. R. T. Barnes, jr. Pulp & Pa of Can 43:436-7 My '42

Maintenance of elevated tanks and standpipes. C. J. Leary. Am Water Works Assn J 34:63-8 Ja '42

Man outwits an ancient foe; prevention of rust and other forms of surface deterioration essential to modern civilization. J. Early. il Barron's 22:20 Ag 10 '42

New lacquer additive is rust inhibiting. Steel 110:88 My 18 '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31: 446-8, 460-2 S 14 '42

Null methods applied to corrosion measurements. J. M. Pearson. diags Electrochem Soc Trans 81 (preprint 21):317-40 Ap '42

Results of corrosion inhibitor demonstrated in products line. S. S. Smith. il Oil & Gas J 41:85, 87+ S 24 '42

Rust-proofing cadmium plated aircraft tubular parts. B. Gross. il Iron Age 150:52-3 Jl 30 '42

Some aspects of museum laboratory work. H. J. Plenderleith. Chem & Ind 60:807-12 N 15 '41

Some corrosion characteristics of high purity magnesium alloys. R. E. McNulty and J. D. Hanawalt. diags Electrochem Soc Trans 81 (preprint 12):135-44 Ap '42

Some mechanisms of alloy corrosion. R. Landau. bibliog diags Electrochem Soc Trans 81 (preprint 23):363-74 Ap '42

Sulfur limits in gasoline. C. D. Lowry, jr. and G. Egloff. bibliog Oil & Gas J 40:52, 54 D 11 '41

Theory of oxidation and tarnishing of metals; the linear, parabolic and logarithmic laws. H. A. Miley. bibliog Electrochem Soc Trans 81 (preprint 14):173-86 Ap '42

See also

Acid resisting materials
Brass—Corrosion
Corrosion resisting materials
Galvanizing
Metal coating
Metal protection
Paint, Protective
Petroleum refineries—Corrosion
Pipe coating
Pipe lines—Protection
Steel—Protection
Water pipes—Corrosion
Water pipes—Protection
Water purification—Corrosion control

Testing

Accelerated atmospheric corrosion test. H. Pray and J. L. Gregg. diags Am Soc T M Proc 41:758-65 '41

Amount and the measurement of internal corrosion in gasoline pipe lines. J. M. Pearson. bibliog il diags Am Pet Inst Proc 22(4):30-5 '41; Excerpts. Oil & Gas J 40: 169-70 N 6 '41; Discussion. Am Pet Inst Proc 22(4):39-45 '41

Atmospheric exposure tests on copper-bearing and other irons and steels in the United States. E. S. Taylerson. Iron & Steel Inst J 143:287-94 no 1 '41; Same. Engineer 171: 308-9 My 9 '41; Excerpts (chart and table). Iron Age 148:44 Ag 28 '41

Castor oil base hydraulic fluids. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Corrosion of unstressed steel specimens and various alloys by high-temperature steam; abstract. Solberg, Hawkins and Potter. Oil & Gas J 40:54 Mr 12 '42

Corrosion tests in a water-recirculating air conditioning system. W. Z. Friend. il Heating-Piping 14:187-90 Mr '42

CORROSION and anti-corrosives—Testing— *Continued*

Corrosion tests of soldered joints on copper tubes. A. W. Tracy. il diag Heating-Piping 14:538-40 S '42

Effect of hydrochloric acid plus inhibitor on the corrosion resistance of 18/8 stainless steel. H. H. Uhlig and E. M. Wallace. Electrochem Soc Trans 81 (preprint 25):381-90 Ap '42

Electroplated coatings on steel; abstract and discussion. G. A. Lux. Iron Age 150:70-1 Jl 2 '42

Equation representing the rate of development of rust on galvanized iron sheets as estimated by the A.S.T.M. test. J. B. Austin. Am Soc T M Proc 41:766-74; Discussion. 775-8 '41

Fatigue evaluates corrosion; abstract. W. H. Mutchler and J. A. Kies. Iron Age 150:62-3 Jl 9 '42

Fretting corrosion and fatigue strength; brief results of preliminary experiments. E. J. Warlow-Davies. bibliog Inst Mech Eng J & Proc 146:Proc 32-8, pl 1-2 N '41; Discussion. 147:Proc 83-7 My '42

Huey corrosion test for 18-8 steel. F. Meunier and H. M. Schnadt. Metal Prog 42:564+ O '42

Influence of external stresses on tendency of brass wires to stress-corrosion crack, as indicated by the mercurous nitrate test. H. P. Croft. diag Am Soc T M Proc 41:905-17; Discussion. 928-30 '41

Methods of cleaning corrosion coupons. C. E. Lee and A. C. Alter. diag Pet Eng (Annual no) 13:92, 94, 96 [Jl] '42

New A.S.T.M. test for rust-preventing characteristics of turbine oils. Nat Pet N 34 pt 2:R216, R218 Jl 29 '42

Oil corrosion tester; a simplified apparatus for testing corrodibility of bearings and corrosiveness of lubricants. N. MacCoull, E. A. Ryder and A. C. Scholp. il diags S A E J 50:338-45 Ag '42; Abstract. Automotive & Aviation Ind 86:35-6 F 1 '42

Pitting and its effect on the fatigue limit of steels corroded under various conditions. D. J. McAdam, jr. and G. W. Geil. bibliog il Am Soc T M Proc 41:696-731; Discussion. 732 '41

Practical corrosion tester for chemical engineers. M. H. Heeren. il diag Chem & Met Eng 49:126-7 F '42; Same. Chem Age (Lond) 46:237-8 My 2 '42

Report of A.S.T.M. subcommittee VI on atmospheric corrosion; non-ferrous metals. Am Soc T M Proc 41:172-6 '41

Report of A.S.T.M. wire inspection committee on field tests of wire and wire products. Am Soc T M Proc 41:101-23 '41

Salt spray and ocean spray testing compared; abstract. C. E. Heussner. Iron Age 149:65-6 Je 25 '42

Salt spray evaluation of oiled black oxide coatings on steel. A. K. Graham. Metal Finishing 40:254-5 My '42

Soil-corrosion studies, 1939: ferrous and non-ferrous corrosion-resistant materials. K. H. Logan. J Research Nat Bur Stand 28:379-400 Mr '42

Test for corrosion of painted iron. R. B. Gibney. il diag Metal Finishing 39:701-2 D '41

Tests on the cathodic method of protecting steel water tanks. G. L. O'Brien. bibliog il diag Water Works & Sewerage 89:285-9 Jl '42

Use of soil surface potential in locating pipeline corrosion. O. C. Mudd. diags Oil & Gas J 41:50, 52+ My 14 '42

Underground corrosion

Bonding pipe lines as protection against electrolysis. E. E. Claggett. diags Pet Eng (Annual no) 13:128+ [Jl] '42

Cable coating cuts sheath corrosion; addition of sodium silicate and sodium dichromate to asphalt; abstract. W. D. Sanderson. Elec W 116:1740 N 29 '41

Corrosion coupons and pipe-line predictions. Oil & Gas J 41:174+ S 24 '42

Corrosion of buried metals. J. C. Hudson, T. A. Banfield and H. A. Holden. Engineering 154:124-5 Ag 14 '42

Corrosion study of bolting materials and coatings. O. A. Halvorson. Am Water Works Assn J 34:76-84 Ja '42

Corrosive soil action study develops new information. Eng N 128:333 F 26 '42

Determination of efficiency of a cathodic-protection system. H. C. Gear. Gas Age 88:26-8 D 18 '41

Electrolytic behavior of ferrous and non-ferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42

Lead cable corrosion; causes and remedies. A. S. Brookes. Elec W 117:106 Ja 10 '42

Method of determining pipe line corrosivity due to soils. P. F. Marx. il diags Pet Eng 13:29-32 F '42

Practical application of zinc anode protection to an 18-in. pipe line. C. L. Brockschmidt. diag Pet Eng 13:74-6, 78+ F '42

Protecting buried metals against corrosion. S. Thayer. Oil & Gas J 40:37 Ap 2 '42

Soil-corrosion studies, 1939; coatings for the protection of metals underground. K. H. Logan. J Research Nat Bur Stand 28:57-71 Ja '42

Soil-corrosion studies, 1939: ferrous and non-ferrous corrosion-resistant materials. K. H. Logan. J Research Nat Bur Stand 28:379-400 Mr '42

Study of corrosion aids in protection of pipe lines. bibliog Oil & Gas J 41:191-2+ S 24; 37 O 1 '42

Use of soil surface potential in locating pipeline corrosion. O. C. Mudd. diags Oil & Gas J 41:50, 52+ My 14 '42

CORROSION research

Corrosion of binary alloys; systems Fe-Ni, Me-Co, Fe-Mn, Ni-Cu, Ni-Co, Ni-Mn, Ni-Ta. R. Landau and C. S. Oldach. diags Electrochem Soc Trans 81 (preprint 16):199-231 bibliog(62 references, p229-31) Ap '42

Corrosion of steel by dissolved carbon dioxide and oxygen. G. T. Skaperdas and H. H. Uhlig. bibliog diag Ind & Eng Chem 34:748-54 Je '42

Corrosion research. J. T. J. Thomas. il Can Chem & Process Ind 26:169-71 Mr '42

Corrosion resistance of welded joints; a review of the literature from Jan. 1, 1937 to Jan. 1, 1941. W. Spraragen and H. H. Chiswik. bibliog(p97 references) il diags Welding J 21:sup209-37 My '42

Effect of small concentrations of hexametaphosphate on iron oxide surfaces. F. Hazel. bibliog J Phys Chem 46:516-24 Ap '42

Electrochemical behavior of the lead-tin couple in carbonate solutions; abstract. G. Derge, H. Markus and A. Grobe. Iron Age 149:59 F 19 '42

Electrolytic behavior of ferrous and non-ferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42

Rust protection studied; abstract. E. A. Gulbransen. il Blast F & Steel Pl 30:461 Ap '42

Rust weighed by supersensitive balance. il Comp Air M 47:6746 My '42

Some corrosion characteristics of high purity magnesium alloys. R. E. McNulty and J. D. Hanawalt. diags Electrochem Soc Trans 81 (preprint 12):135-44 Ap '42

Synthetic corrosion pits and the analysis of their contents. E. D. Parsons, H. H. Cudd and H. L. Lochte. bibliog diags J Phys Chem 45:1339-45 D '41

Use of statistical control in corrosion and contact resistance studies. W. E. Campbell. Electrochem Soc Trans 81 (preprint 26):391-404 Ap '42

Water immersion testing of metal protective paints; influence of bare metal areas. W. W. Kittelberger. il Ind & Eng Chem 34:943-8 Ag '42

CORROSION resisting materials

Aluminum-magnesium alloys resist attack. L. J. Benson and R. B. Mears. bibliog Chem & Met Eng 49:88-91 Ja '42

Application of corrosion resistant alloys to natural gasoline plants. B. B. Morton. il Nat Pet N 34 pt 2:R308-13 S 30 '42

CORROSION resisting materials—*Continued*

Concrete bottoms in rundown tanks solve light-oil corrosion problems. J. M. Vyn. diag Oil & Gas J 40:157 Ap 30 '42

Corrosion resistance of electro-galvanized steel; composite of abstracts. Metals & Alloys 15:680 Ap '42

Corrosion-resisting materials in bleaching, dyeing and finishing industry. W. W. Chase. Textile World 92:72-4 Ja '42

Linings for tanks in the plating shop. E. Coffin. Metal Finishing 40:128+ Mr '42

Metals and alloys for construction of chemical engineering equipment; tabulated data. Chem & Met Eng 49:105-28 S '42

Methods to avoid corrosion; redesign for use of available materials. il diags Product Eng 13:192-203 Ap '42

New alloy for working at high temperature; K-42-B; nickel, cobalt, titanium, iron, chromium. P. H. Brace. il Metal Prog 41:354-60 Mr '42

New technical coating; Alkacite. il Rayon 23:553 S '42

Non-metallic chemical plant. A. E. Williams. il diags Engineer 174:5-6, 25-7, 44-6 Jl 3-17 '42

Sampling of steam and boiler water; corrosion resistant metals in sampling equipment. A. R. Belyea and A. H. Moody. Am Soc T M Proc 41:1264-73; Discussion. il 1274-6 '41

Silver offers resistance to many chemicals. A. Butts and J. Giacobbe. il Chem & Met Eng 48:76-9 D '41

Soil-corrosion studies, 1939: ferrous and non-ferrous corrosion-resistant materials. K. H. Logan. J Research Nat Bur Stand 28:379-400 Mr '42

Transite for chemical fumes; Searle chemical co. il Sheet Metal Worker 33:82-3 Ja '42

Vinidur; synthetic material developed in Germany to replace rubber. India Rubber W 107:196+ N '42

See also

Acid resisting materials
Bakelite
Chemical plants—Equipment
Chromium nickel steel
Chromium steel
Corrosion and anticorrosives
Glass lining
Monel metal
Paint, Protective
Rubber
Rubber lining
Steel, Corrosion resisting
Steel, Stainless
Stoneware

CORRUGATED board. See Paper board, Corrugated

CORRUGATED pipes. See Pipes, Corrugated

CORRUPTION in politics

Corrupt practices legislation in the 48 states. S. S. Minault. 39p bibliog(p39) pa 50c Council of state governments, 1313 E. 60th st, Chicago '42

CORSETS

Curve control crisis: frenzied femmes want guns *and* girdles. L. B. Colby. il Sales Management 50:72-4 F 15 '42

Rubberless girdle? Business Week p57-8+ S 19 '42

Soft-spoken promotion widens markets for ethical products; S. H. Camp & co. scientific supporting garments. il Sales Management 50:28, 30, 32 Ja 15 '42

Advertising

American Lady builds strong promotion around perfect fit; Vital dimension plan. il Sales Management 50:59-61 Ja 15 '42

Rating

Lightweight girdles and corsets. Consumers' Research Bul 9:12-14 F '42

CORUNDUM

Corundum placed under full allocation. Oil Paint & Drug Rep 141:5 F 16 '42

Grinding wheels; composition of abrasives from electric furnaces. A. G. Arend. il Elec R (Lond) 131:391-2 S 25 '42

COSMETICS

All-America package competition; award to Milkmaid, inc. il Mod Packaging 15:162-3 Ap '42

Beauty's beast; WPB's order on cosmetics. Business Week p70+ Jl 25 '42

Chemistry and manufacture of cosmetics. M. G. de Navarre. 745p bibliog(p711-28) $8 Van Nostrand '41

Contemplated L-order. H. L. Brooks; C. A. Willard. Oil Paint & Drug Rep 141:63-4 Je 22 '42

Cosmetic buying trends as shown by survey. Ptr Ink 201:40 O 9 '42

Cosmetic distributors F.T.C. charges dropped. Oil Paint & Drug Rep 141:5+ Je 15 '42

Cosmetic kits hit wartime stride. il Mod Packaging 16:62-3+ O '42

Cosmetic order L-171 amended. Oil Paint & Drug Rep 142:5+ O 5 '42

Cosmetic order L-171 revoked. Oil Paint & Drug Rep 142:3+ O 19 '42

Cosmetics. F. E. Wall. bibliog J Chem Educ 19:435-40 S '42

Face powder and lipstick, tops among indispensables; 1,000 women tell P. I. investigators what they can and can't get along without. Ptr Ink 199:13-14 Ap 24 '42

Gay dress for cosmetics despite restrictions. il Mod Packaging 16:58-60+ N '42

Hand protective creams. C. A. Tyler. il Soap & San Chem 18:19-21+ S '42

On the wartime sales front. Sales Management 51:46 Ag 1 '42

Over here and over there; U.S. chain-store cosmetics continue climb; Britain bemoans beauty black market. il Ptr Ink 201:60+ N 6 '42

Perfume and cosmetic industry in wartime in England. W. Carsch. Oil Paint & Drug Rep 141:7+ Ap 27 '42

Perfumes, cosmetics and soaps; with special reference to synthetics. W. A. Poucher. 3v v 1 5th ed; v2-3 6th ed 459p; 430p; 234p v 1-2 ea $8; v3 $7 Van Nostrand '42

Plastics competition award to Shulton, inc.; cosmetic containers of Catalin. il Mod Plastics 19:132-3 N '41

Shortages in cosmetics affect a big industry. C. Vogel. Barron's 22:5 F 23 '42

Skin protective creams; abstract. F. H. Sedgwick. Soap & San Chem 18:57 N '42

United Kingdom cosmetic industry in wartime. For Comm W 7:28 Ap 18 '42

What's ahead for cosmetics. M. G. deNavarre. il Adv & Sell 35:16+ Ag '42

See also

Lipsticks
Toilet goods

Advertising

Cosmetic legs attract advertisers. il Ptr Ink 200:36 Jl 24 '42

Vitamin cosmetic boosting stopped. Oil Paint & Drug Rep 141:7+ Je 1 '42

Manufacture

Luxury goods, too, must be closely controlled; production planning, Helena Rubinstein, inc. H. F. Waterhouse. il Factory Management 99:73-6+ D '41

Prices

Prices during war; pricing new products under the GMPR. R. W. Burns. Oil Paint & Drug Rep 141:64-5 Je 22 '42

COSMIC rays

Cosmic-ray radio sonde. H. V. Neher and W. H. Pickering. il diags R Sci Instr 13:143-7 Ap '42

Cosmic-ray theory. B. Rossi and K. Greisen. bibliog Rs Mod Phys 13:240-309 O '41

Cosmic rays and the magnetic disturbance of September 18, 1941. V. F. Hess and E. B. Berry. Phys R 60:746 N 15 '41

Electric fields in interstellar space. F. Evans. Phys R 60:911 D 15 '41

Frequency of proton and alpha-tracks in cosmic-ray stars. M. M. Shapiro. bibliog Phys R 61:115-20 F 1 '42

Hypothesis as to the origin of cosmic rays and its experimental testing in India and elsewhere. R. A. Millikan, H. V. Neher and W. H. Pickering. Phys R 61:397-407 Ap 1 '42

COSMIC rays—*Continued*

Inefficiency and other sources of error in cosmic-ray measurements with self-quenching counters. K. Greisen and N. Nereson. diags Phys R 62:316-29 O 1 '42

Meson theory and the magnetic moments of protons and neutrons. H. Fröhlich. bibliog Phys R 62:180 Ag 1 '42

Mesotron studies with dual telescope. F. A. Benedetto, G. O. Altmann and V. F. Hess. bibliog diags Phys R 61:266-9 Mr 1 '42

Physics in 1941. T. H. Osgood. il J Ap Phys 13:10-13 Ja '42

Production of neutrons and protons by the cosmic radiation at 14,125 feet. S. A. Korff and E. T. Clarke. bibliog Phys R 61:422-7 Ap 1 '42

Results of a high altitude cosmic-ray survey near the magnetic equator. H. V. Neher and W. H. Pickering. Phys R 61:407-13 Ap 1 '42

Components

Intensities of the hard and soft components of cosmic rays as functions of altitude and zenith angle. K. Greisen. bibliog diags Phys R 61:212-21 Mr 1 '42

Mesotron component of cosmic rays. H. D. Rathgeber. bibliog Phys R 61:207-11 Mr 1 '42

Nature of the soft component of cosmic rays at 3500 meters altitude. P. V. Auger. Phys R 61:684-5 Je 1 '42

Origin of the soft component of cosmic rays. B. Rossi and K. Greisen. bibliog Phys R 61:121-8 F 1 '42

Intensity

Electric and magnetic effects of cosmic rays. F. Evans. bibliog Phys R 61:680-3 Je 1 '42

Intensities of the hard and soft components of cosmic rays as functions of altitude and zenith angle. K. Greisen. bibliog diags Phys R 61:212-21 Mr 1 '42

Ionization effects

Cloud-chamber photographs at 4310 meters altitude. W. H. Bostick. bibliog il diag Phys R 61:557-64 My 1 '42

Complete proportional counter arrangement for cosmic-ray measurements. P. Weisz and W. E. Ramsey. diags R Sci Instr 13:258-64 Je '42

Showers

Absorption of extensive atmospheric showers of cosmic rays in air and lead. P. Auger and J. Daudin. Phys R 61:91-2 Ja 1 '42

Cloud-chamber photographs at 4310 meters altitude. W. H. Bostick. bibliog il diag Phys R 61:557-64 My 1 '42

Cosmic-ray electrons of low energy in the atmosphere. B. Rossi and S. J. Klapman. Phys R 61:414-21 Ap 1 '42

Cosmic-ray theory. B. Rossi and K. Greisen. bibliog Rs Mod Phys 13:269-309 O '41

Diurnal variation of extensive showers. P. Auger and J. Daudin. Phys R 61:95 Ja 1 '42

Multiple secondary effects of the penetrating cosmic radiation at sea level. P. Auger and J. Daudin. diags Phys R 61:549-56 My 1 '42

Transition curves for electron and photon produced showers. N. Nereson. bibliog diag Phys R 61:111-15 F 1 '42

COSMOGONY

Age of the sun and stars; abstract. G. Gamow. Science 94:sup10 N 7 '41

COSMOLOGY

See also

Astronomy
Earth
Life in other worlds
Universe

COSMOS sulfureus

Anthochlor pigments; the pigments of cosmos sulphureus. T. A. Geissman. bibliog Am Chem Soc J 64:1704-7 Jl '42

COST

Costs and prices. Business Week p91 N 15 '41

Distributive costs of consumption commodities. B. M. Fowler and W. H. Shaw. Survey of Cur Business 22:12-17 Jl '42

See also

Cost accounting
Cost of living
Labor cost
Power cost
Prices
Sales costs

also subdivision Cost, Cost of operation and Costs under special subjects, e.g. Building—Cost; Automobiles—Cost of operation; Railroads—Costs

COST accountants, National association of. See National association of cost accountants

COST accounting

Accounting for excess labor costs and overhead under conditions of increased production. N A C A Bul 22:1551-70 sec 3 Ag 15 '41; Abstract. Management R 31:59-61 F '42

Accounting system of the Atlantic City auditorium. I. Tenner. 8p pa 15c Municipal finance officers assn. of the U.S. and Canada; 1313 E. 60th st. Chicago '42

Accuracy and flexibility with tailor-made indexes. C. A. Mees. Eng N 128:688, 690, 692 Ap 23 '42

Allocation of the Tennessee Valley authority projects. T. B. Parker. map Am Soc C E Proc 67:1813-26 D '41; Discussion. 68:339-40, 483-96, 837-8, 1001-8, 1465-70, 1807-8 F-Mr, My-Je O, D '42

Application of standard costs to an operating budget; Crown can company, Philadelphia. H. C. Heiser. N A C A Bul 24:121-36 O 1 '42

Basis for inventory and carrying charges on commodity in storage. J Account 74:69 Jl '42

Bonus or penalty on purchase of vessel. J Account 72:535-6 D '41

Carter products, incorporated; what can cost records do for management? J. H. Hill. Factory Management 100:96+ Je '42

Case problem in lumber costs. E. S. Rittler. N A C A Bul 23:599-613 Ja 1 '42

Case studies in distribution cost accounting for manufacturing and wholesaling. 215p U.S. Federal trade commission, Washington; 25c Supt. of doc. '41

Change in cost system poses serious problem. Inland Ptr 108:17-20 D '41

Comments on explanation of government contract costs. G. N. Farrand. J Account 73: 510-15 Je '42

Cost accounting and time and motion studies. A. E. Werolin. N A C A Bul 23:1217-24 My 15 '42

Cost accounting for war production. W. B. Lawrence. 350p $4.65; school ed $3.50 Prentice-Hall '42

Cost accounting for water utilities. R. M. Sedgwick. Am Water Works Assn J 34: 564-8 Ap '42

Cost accounting; principles and practice. J. J. W. Neuner. rev ed 819p $4.25 R. D. Irwin, 332 S. Michigan av, Chicago '42

Cost estimating for government contracts. M. F. Thompson. N A C A Bul 23:1415-28 Jl 1 '42; Abstract. Management R 31:247-9 Jl '42

Costing in relation to port operation. G. Wilson. Engineering 152:415 N 21 '41

Costs for paper mill executives. F. J. Hickling. Paper Ind 24:275-7 Je '42

Cotton gin profit charts. W. E. Paulson. map N A C A Bul 23:1093-1112 Ap 15 '42

Engineering progress and cost control; relationship between the respective functions of cost and weight control. E. E. Roberts. Aero Digest 40:188, 191+ My '42

Essentials of cost accounting. J. G. Blocker. 430p bibliog(p417-19) $3 McGraw-Hill '42

Essentials of cost control. J. A. Willard. J Eng Educ 32:548-65 Mr '42

Establishing relative burden rates on a machine-hour basis; J. L. Clark mfg. co., Rockford, Ill. F. O. Kudert. N A C A Bul 23:435-46 D 1 '41

Explanation of principles for determination of costs under government contracts; text of handbook prepared by Accounting advisory branch of War production board [10c Supt. of doc] J Account 73:516-29 Je '42

COST accounting—*Continued*

Figures for management. G. R. Kleinau. N A C A Bul 23:848-54 F 15 '42

Heat treat costs; Caterpillar tractor, Peoria, Ill. G. T. Krider. N A C A Bul 23:1429-38 Jl 1 '42

Industrial accounting. S. W. Specthrie. 243p $3.75; school ed $3.25 Prentice-Hall '42

Industrial cost accounting; an intensive course. J. J. W. Neuner. 480p $3.50 R. D. Irwin, 332 S. Michigan av, Chicago '42

National association of cost accountants, year book, 1941. 410p $3 Nat. assn. of cost accountants, New York '41

National association of cost accountants year book, 1942; proceedings of the twenty-third International cost conference, Chicago, June 22-24, 1942. 213p $3 Nat. assn. of cost accountants, 385 Madison av, New York '42

Nature of cost and its uses. W. P. Fiske. N A C A Bul 23:980-93 Mr 15 '42

Oil refinery accounting. S. K. Waters. N A C A Bul 24:3-26 S 1 '42

Original cost, invested capital, depreciation base, and other determinations of old costs. H. A. Horne. J Account 73:251-9 Mr '42

Plant values and their effect on costs and inventory valuations; productive replacement value. N. H. Foley. N A C A Bul 24:57-64 S 15 '42

Relation of cost to output for a leather belt shop. J. Dean; C. R. Noyes. 72p 50c Nat. bur. econ. research '41

Renegotiation of war contracts; Accounting research bulletin no. 15. J Account 74:319-25 O '42

Some special features in the audit of war contract costs. J. S. Seidman. J Account 74:199-201 S '42

Tentative statement on accounting for excess labor costs, Research and technical service department, National association of cost accountants. N A C A Bul 23:1205-13 sec 3 My 1 '42

Trends in accepted accounting and their relation to cost accounting. M. E. Peloubet. N A C A Bul 23:835-47 F 15 '42

U.T.A. official outlines advantages of accounting plan. D. Rein. Inland Ptr 108:33-6 Ja '42

War-time cost accounting; outline of practical system for electrical contractors. S. H. Withey. Electrician 127:335 D 12 '41

What are costs? being redefined both in war contracts and in computation of taxes. Business Week p17-18 Je 13 '42

See also

Accounting
Budget, Business
Contracts, Government—Accounting
Depreciation
Factories—Accounting
Labor cost—Accounting
Machinery, Replacement of
Obsolescence
Overhead expense
Payrolls—Accounting

Bibliography

Complete topical index, N.A.C.A. publications, April, 1920 to January, 1942. N A C A Bul 23:715-89 sec 3 Ja 15 '42

Current cost literature. N A C A Bul 23:455+ sec 2 D 1 '41 [cont monthly]

Standard costs

Controlling manufacturing costs. A. F. Gurr. Pulp & Pa of Can (Convention no) 43:129-30 [F] '42

COST of living

Cost of living controls; a brief panel discussion. W. Atkins; P. Cadman and others. Banking 35:18-22, 169 S '42

Drafting tomorrow's trust; meeting changes in living costs. R. H. Bolman. Trusts & Estates 74:275-8 Mr '42

Rise in cost of living resulted chiefly from higher food prices, Board finds. Comm & Fin Chr 156:1267 O 8 '42

See also

Budget, Household
Food—Prices
Prices
Rent
Saving

Bibliography

Cost of living; sources of information. (Business literature, v 15, no 1) 2p Business branch, Newark public lib, Newark, N.J. S '42

Statistics

Around the map with the cost of living; per cent gain in 33 key cities since the start of the war; chart. Business Week p48 N 22 '41

Canada; publication of additional statistical series. Fed Res Bul 28:451, 520-1 My '42

Canadian indexes of cost of living; revised series, monthly, Jan. 1914-Nov. 1941. Survey of Cur Business 22:19 Ja '42

Changes in cost of living in large cities in the United States, 1913-41. U S Bur Labor Statistics Bul 699:1-112; pa 15c Supt. of doc. '41

Changes in cost of living in large cities, November 15, 1941. Monthly Labor R 54:143-5 Ja '42 [cont monthly]

Changes in living costs, World war I and today; chart. Survey of Cur Business 21:2 N '41

Cost of living, 1935-Sept. 1942. Fed Res Bul 28:985-7 O '42

Cost of living, United States, Canada, United Kingdom, Germany, Netherlands, Switzerland, 1932-1941 and monthly March 1941-March 1942. Fed Res Bul 28:521 My '42 [cont monthly]

Estimated intercity differences in cost of living, June 15, 1942. Monthly Labor R 55:570-3 S '42

Family expenditures in the United States. H. Kneeland, S. E. Fine and J. H. Murray. 209p U.S. National resources planning bd, Washington; 50c Supt. of doc. '41

Index numbers of cost of living and food prices in various countries. Int Labour R 44:464-9; 45:114-19, 465-71; 46:110-16, 505-11 O '41, Ja, Ap, Jl, O '42

Indexes of cost of living of wage earners and lower-salaried workers in large cities in World war I and World war II; charts. Survey of Cur Business 22:4 My '42

Living-cost indexes for workers in industry groups. F. R. Rice. Monthly Labor R 54:1363-6 Je '42

Money disbursements of wage earners and clerical workers in thirteen small cities, 1933-35. F. M. Williams and G. S. Weiss. diags U S Bur Labor Statistics Bul 691:1-173; 20c Supt. of doc. '42

Money disbursements of wage earners and clerical workers, 1934-36; summary volume. F. M. Williams and A. C. Hanson. U S Bur Labor Statistics Bul 638:1-401, pl 1-11; pa 55c Supt. of doc. '41

Rise in living costs smaller in this war. Barron's 22:1 O 26 '42

That cost of living index; NWLB's wage-increase formula. Business Week p78+ O 10 '42

Variations in living costs between cities; pictograph. Sales Management 50:30 Ap 20 '42

What is the cost-of-living index? Monthly Labor R 55:268-77 Ag '42

What's happening to the cost of living; Aug. 1939-Jan. 1942; tabulation. Business Week p58 Mr 7 '42 [cont monthly]

Argentina

Cost-of-living indexes, Argentina, during first and second World wars. Monthly Labor R 54:710 Mr '42

Living and office operating costs in Argentina. il For Comm W 7:8-9+ My 30 '42

British Guiana

Living conditions and office-operating costs in British Guiana. For Comm W 8:11+ Jl 18 '42

Canada

Canada; publication of additional statistical series. Fed Res Bul 28:451, 520-1 My '42

Canadian indexes of cost of living; revised series, monthly, Jan. 1914-Nov. 1941. Survey of Cur Business 22:19 Ja '42

COST of living—Canada—*Continued*

Holes in the price ceiling; how unseen price rises are jacking up living costs in Canada. W. A. McKague. Barron's 22:13 Je 15 '42

Cuba

Living and office operating costs. For Comm W 6:6-7+ Mr 7 '42

Great Britain

Wartime changes in living costs in Great Britain. Monthly Labor R 54:1003-5 Ap '42

Latin America

Rise in living costs in Latin American cities, as compared with rising living costs in the United States, 1939 to 1941; tabulation. For Comm W 8:34 Ag 1 '42

Mexico

Living and office-operating costs in Mexico. For Comm W 7:9-10 Je 27 '42

Nicaragua

Living and office operating costs in Nicaragua. For Comm W 6:8-9 Mr 21 '42

San Francisco

Clothing and house furnishings allowances; prices for San Francisco, March, 1942; supplement to Quantity and cost budgets for three income levels, Quantity and cost budget for dependent families or children, and Quantity and cost budget for a single working woman. 49 numb l pa 50c Univ. of California press, Berkeley '42

Quantity and cost budget for a single working woman; prices for San Francisco, March, 1942. 14 numb l pa 15c Univ. of California press, Berkeley '42

Quantity and cost budget for dependent families or children; prices for San Francisco, March, 1942; including Adequate food at low cost, by R. Okey and E. H. Huntington. 37p pa 25c Univ. of California press, Berkeley '42

Quantity and cost budgets for four income levels. 108 numb l; Supplement: Clothing budgets, prices for San Francisco, Mar. 1941. 35 numb l Univ. of California press, Berkeley '41

Quantity and cost budgets for three income levels; 1, Family of an executive; 2, Family of a white-collar worker; 3, Family of a wage earner; prices for San Francisco, March, 1942. 95p pa 85c Univ. of California press, Berkeley '42

United States

Analysis of increases in living costs, August 1939 to December 1941. F. R. Rice and E. C. Hobbs. Monthly Labor R 54:833-42 Ap '42

Changes in cost of living in large cities in the United States, 1913-41. U S Bur Labor Statistics Bul 699:1-112; pa 15c Supt. of doc. '41

Changes in living costs in large cities. Published in Monthly labor review

Living costs and NWLB's wage rule. Business Week p84 Ag 15 '42

Money disbursements of wage earners and clerical workers, 1934-36; summary volume. F. M. Williams and A. C. Hanson. U S Bur Labor Statistics Bul 638:1-401, pl 1-11; pa 55c Supt. of doc. '41

President demands stabilization of wages and profits, with new ceiling on farm products; message to Congress; text. Comm & Fin Chr 156:889, 896-7 S 10 '42

Rising cost of living. Fed Res Bul 27:1211-16 D '41

Wages and cost of living in two world wars. W. Bowden. Monthly Labor R 53:1103-25 N '41

What's happening to the cost of living; statistics, Oct. 1940-Oct. 1941. Business Week p41 N 29 '41 [cont monthly]

See also

Cost of living—Statistics

Uruguay

Wages and cost of living in Uruguay. Monthly Labor R 55:365-6 Ag '42

COST of living bonus. See Wage payment plans

COST-plus contracts. See Contracts, Cost-plus; Contracts, Government—Cost-plus contracts

COSTA RICA

See also

Geology—Costa Rica

Insurance, Social—Costa Rica

Commerce

Foreign trade of Costa Rica for 1939 and 1940. 8p Pan American union, Washington, D.C. '42

Economic conditions

News by countries. For Comm W 7:12-13 Ap 25; 19-20 Je 20 '42

COSTUME

How to make historic American costumes. M. Evans. 178p bibliog(p171-3) $3 A. S. Barnes and co, New York '42

Latin American costumes. D. G. Spicer. 83p $5 Hyperion press, New York '41

Lipson's artistic costume designing. L. Lipson. 2d rev ed 93p $3.50 Cosde publications, 3142 Wilshire blvd, Los Angeles '41

Lipson's textbook of practical costume designing; create with confidence. L. Lipson. 2d rev ed 220p $7.50 Cosde publications, 3142 Wilshire blvd, Los Angeles '41

Mode in costume. R. T. Wilcox. 395p bibliog(p393-5) $5 Scribner '42

Modern pattern design. H. Pepin. 253p $5 Funk & Wagnalls co, 354 4th av, New York '42

See also

Clothing, Protective

Clothing and dress

COTTAGES

Desert cottage in Scottsdale, Arizona. il plan Arch Forum 76:104-5 F '42

See also

Country houses

Week-end houses

COTTON

Cotton pulps; effects of supplementary materials on beating. D. M. Musser and H. C. Engel. bibliog Paper Tr J 115:33-5 Ag 20 '42

Cotton pulps; modification by oxidizing and hydrolyzing agents. D. M. Musser and H. C. Engel. bibliog Paper Tr J 114:29-31 Ap 9 '42

Cotton; yesterday, today, and tomorrow. H. G. Knight. il Chem & Eng N 20:581-3 My 10 '42

Effects of various reagents on cotton and pulp; abstract. A. Marschall. Paper Ind 24:652 S '42

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

Hydrolysis and catalytic oxidation of cellulosic materials; hydrolysis of mercerized cottons. R. F. Nickerson. bibliog Ind & Eng Chem 34:85-8 Ja '42

Mechanical harvesting of cotton; as affected by varietal characteristics. H. P. Smith and D. T. Killough. Mech Eng 64:604-6 Ag '42

Proceedings of the American association of textile chemists and colorists; open forum meeting, Southeastern section, Columbus, Ga. March 21, 1942, reported by R. W. Philip. Am Dyestuff Rep 31:174-81 Ap 13 '42

Structure, properties, and utilization of cotton; influences of common agencies on behavior. R. F. Nickerson. bibliog il Ind & Eng Chem 34:1149-54 O '42

COTTON—*Continued*

Viscosity determination of cotton in dimethyl dibenzyl ammonium hydroxide. W. W. Russell and L. N. Hood, jr. bibliog diag Ind & Eng Chem Anal ed 14:202-5 Mr 15 '42

See also

Bleaching—Cotton
Cellulose
Cotton fabrics
Cotton fibers
Cotton manufacture
Cotton mills
Cotton trade
Cottonseed
Cottonseed oil
Dyes and dyeing—Cotton
Vulcanized fiber

Analysis

Cellulose content of cotton and southern woods. W. Wan Chen and F. K. Cameron. Ind & Eng Chem 34:224-5 F '42

Detection of second-hand white cotton filling materials used in articles of bedding and upholstered furniture; chemical, fluorescence and hydrogen ion concentration tests. C. M. Jephcott and W. H. H. Bishop. bibliog Ind & Eng Chem Anal ed 14:400-4 My 15 '42

Determination of copper in textile materials treated to prevent mildew. C. L. Hoffpauir and R. T. O'Connor. bibliog Am Dyestuff Rep 31:395-8 Ag 17 '42

Quantitative determination of cellulose in raw cotton fiber; a simple and rapid semi-micro method. J. H. Kettering and C. M. Conrad. bibliog Ind & Eng Chem Anal ed 14:432-4 My 15 '42

Volumetric determination of moisture in cotton textiles. J. F. Keating and W. M. Scott. bibliog Am Dyestuff Rep 31:308-10 Je 22 '42

Diseases and pests

Cotton insects of the United States. V. A. Little and D. F. Martin. 130 numb l $2.25 Burgess pub. co, 426 S 6th st, Minneapolis '42

Insecticides for control of cotton insects. R. C. Roark. bibliog il Chem & Eng N 20:1169-72 S 25 '42

Moisture content

Volumetric determination of moisture in cotton textiles. J. F. Keating and W. M. Scott. bibliog Am Dyestuff Rep 31:308-10 Je 22 '42

Prices

Cotton climbs. Business Week p76+ Ap 4 '42

Market forecasting significance of market movements. L. C. Wilcoxen. Am Statis Assn J 37:343-51 S '42

New ceiling prices on carded yarns are based on spot cotton. Rayon 22:648-9 N '41

New cotton peg. Business Week p84-5 My 9 '42

Statistics

See also

Cotton trade—Statistics

Testing

See also

Cotton fabrics—Testing
Cotton yarn—Testing

Uses

Cotton straw hat. Business Week p54 Ag 15 '42

Sandals for tires; made of rug-like cotton impregnated with asphalt emulsion. il Business Week p16-17 Ag 29 '42

Shortages of other materials give cotton its big chance; new fashions in cotton clothes, rugs, wallpaper, insulation, etc. il Sales Management 51:64-6 Ag 15 '42

Smokeless powder; chopped-up cotton speeds production. Sci Am 166:59 F '42

Structure, properties, and utilization of cotton; influences of common agencies on behavior. R. F. Nickerson. bibliog il Ind & Eng Chem 34:1153 O '42

War uses of farm products. H. G. Knight. il Manuf Rec 111:24-5, 50+ Ag '42

See also

Cotton fabrics—Uses

Wax content

Green lint cotton valuable for wax. Franklin Inst J 233:172 F '42

Nyasaland

Cotton; cultivation in Nyasaland. Textile Inst J 33:A58-9 F '42

Peru

Peruvian cotton purchase by U.S. not for import. Comm & Fin Chr 156:22 Jl 2 '42

Russia

Soviet cottons; abstracts. Textile Inst J 33: A2-4 Ja '42

United States

Cotton for war. Business Week p92-4 Mr 14 '42

Cotton production in 1941. Comm & Fin Chr 155:1783 My 7 '42

King Cotton comes back. Barron's 22:6 Mr 23 '42

Long staple cotton price in the Southwest; government aid to growers. Comm & Fin Chr 156:1549 O 29 '42

1942 cotton allotments about same as 1941. Comm & Fin Chr 154:1658 D 25 '41

Reduction in cotton yield from stated causes. Comm & Fin Chr 155:1779 My 7 '42

Urges cotton farmers to plant full acreage. C. Wickard. Comm & Fin Chr 155:1034 Mr 12 '42; Correction. 155:1152 Mr 19 '42

See also

Cotton trade—United States

COTTON bags

Bag production increased. R. W. Lahey. Chem Ind 50:520 Ap '42

Converting to cotton osnaburgs; suggestions to weavers. Textile World 92:67 Je '42

Cotton in cotton; drive to cover American bales with cloth made from domestic fiber. Business Week p75+ My 16 '42

Cotton wrapping for cotton. C. T. Murchison. il Manuf Rec 111:22-3 S '42

1942 cotton bagging. Comm & Fin Chr 155:784 F 19 '42

1943 cotton bagging. Comm & Fin Chr 156: 1550 O 29 '42

Parts for assembling held in cotton and cellophane bags. Mach 48:157 D '41

To market in cotton bags. C. K. Everett. il Mod Packaging 16:42-4 N '42

COTTON baling

Cotton in cotton; drive to cover American bales with cloth made from domestic fiber. Business Week p75+ My 16 '42

Cotton wrapping for cotton. C. T. Murchison. il Manuf Rec 111:22-3 S '42

1942 cotton bagging. Comm & Fin Chr 155:784 F 19 '42

1943 cotton bagging. Comm & Fin Chr 156: 1550 O 29 '42

COTTON carding

Carding and spinning problems discussed at Auburn meeting of Alabama textile operating executives. Textile World 92:94-5 Ja '42

Higher card speeds tested; abstract. G. H. Dunlap. Textile World 92:128 Je '42

Increasing card speeds; abstract. A. R. Marley. Textile World 92:122 Jl '42

Increasing cotton card speeds. G. H. Dunlap. il Textile World 92:78-9 Ap '42

COTTON combing

Maintenance of cotton combers. il Textile World 92:69 Ag '42

COTTON fabrics

Action of sweat on dyed cotton goods. F. Jordinson. Textile Col 63:628+ N '41

Adding variety to pique fabrics. T. R. Hart. il Textile World 92:70-1 Jl '42

Army requirements for combed cotton cloth; abstract. E. B. Gregory. Textile World 92: 75 O '42

COTTON fabrics—*Continued*

Black-out cloths. il Textile World 92:56-7 Ja '42

Blackout draperies and curtains. H. E. Millson. Textile Col 64:281-3 Je '42

British standard utility cloths. J. G. Oliver. il Textile World 92:65 Ag '42

Cloth, cotton; herringbone twill used for the manufacture of suits, working (one-piece) for enlisted men of the army. Textile Col 64:226+ My '42

Cloth, cotton; uniform, twill used for uniforms, U.S. army personnel. Textile Col 64:236+ My '42

College girls' victory fabrics; style show sponsored by Textile school of North Carolina state college. T. R. Hart. il Textile World 92:75 Ap '42

Cotton fabric constructions in relation to water resistance. il Am Dyestuff Rep 31:6-12 Ja 5 '42

Cotton vs. rayon; rumpus in Senate over tire cord for army. Business Week p19-20 O 31 '42

Fabric specifications for army; cloth, cotton; wind resistant used for windbreakers. Textile Col 64:241+ My '42

Fabrics for military purposes; cotton and acetate rayon fabrics for sleeping-bags. il Textile World 92:68 My '42

Fabrics for military purposes; cotton drills sought by army and navy; cotton canvas padding, and 48-oz. duck. il Textile World 92:63 Ag '42

Fabrics for military purposes; data on cotton drills and substitutes. il Textile World 92:66 Je '42

Fabrics for military purposes; gray constructions of army fabrics. Textile World 92:74 Mr '42

Fabrics for military purposes; osnaburgs for sand bags; water-repellent duck; wristlets. il Textile World 92:127 F '42

Fabrics for military purposes; twill and silesia uniform linings used by the army, navy and Marine corps. il Textile World 92:65 Jl '42

Fabrics for military use; uniform twill modified; facing-cloth specification. il Textile World 92:59+ Ja '42

Fabrics for national defense; elastiques, silesia lining cloth and woolen suiting. Textile World 91:86 N '41

Fabrics for national defense; wool lining fabric, unbleached cotton drill, and pressed wool felt. il Textile World 91:78 D '41

Imperfections in woven fabrics. T. Nelson. il Textile World 92:72-3 Ag '42

Preventing neps in army twill. Textile World 92:99-100 Ag '42

Recommended commercial standard for cotton and rayon velvet. Rayon 23:134-5 Mr '42

Rising fashion for cotton piles. J. Black. il Textile World 92:78-9 O '42

Staple cotton fabrics; names, descriptions, finishes, and uses of unbleached, converted, and mill finished fabrics. J. Hoye. 241p $3.50 McGraw-Hill '42

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

Why QM rejects cotton fabrics; most common yarn faults and finishing defects. il Textile World 92:73 Mr '42

Why QM rejects cotton fabrics; weaving imperfections; other defects. il Textile World 92:55 Ja '42

See also

Automobile fabrics
Cotton finishing
Cotton weaving
Cotton weighting
Duck (textile)
Dyes and dyeing—Cotton
Huckaback
Khaki
Mercerizing
Net fabrics
Osnaburg
Rubber liner fabrics
Seersucker
Sheets

Shrinkage

Controlled shrinkage; discovery of process for mechanically compressing cotton fabrics. Textile Col 64:364-5 Jl '42

Finishing of cotton and rayon fabrics so that they do not shrink. A. J. Hall. Textile Col 64:379-80 Ag '42

Shrink-proofing fabrics with formaldehyde. Textile Col 63:701-2 D '41

Stamp plan

End cotton stamp program. Comm & Fin Chr 155:1717 Ap 30 '42

Testing

Analysis of 84 qualities of cotton dress prints. M. B. Hays and G. B. Frankenberg. bibliog Rayon 23:620-2, 669 O-N '42

Comparison of fabric tensile test results obtained in different laboratories. B. D. Porritt, J. R. Scott and W. H. Willott. Textile Inst J 33:S9-21 Je '42

Determining the deterioration of cellulose caused by fungi; improvements in methods. G. A. Greathouse, D. E. Klemme and H. D. Barker. bibliog il Ind & Eng Chem Anal ed 14:614-20 Ag 15 '42

Planoflex, a simple device for evaluating the pliability of fabrics. E. C. Dreby. bibliog J Research Nat Bur Stand 27:469-77, pl 1-2 N '41; Same. Am Dyestuff Rep 30:651-4, 665-6 N 24 '41

Testing sulphur-dyed goods to determine amount of deterioration during storage. J. L. Crist. Textile World 92:138 Ap '42

Variability of tensile strength tests on cotton fabric. A. W. Bayes. Textile Inst J 33:S22-3 Je '42

Uses

Cotton fabric for erosion control; experiments on roadside slopes and ditches in Mississippi. W. B. King. il Pub Roads 23:94-6 Jl-S '42; Excerpts. Eng N 129:547 O 22 '42

Cotton fabric reinforcement in bituminous surfacing. S. Hallberg and A. Hjelmer. Roads & Bridges 80:78+ S '42

Girdles and sandals for tires. il Textile World 92:61-2 O '42

Rubberized cotton fabric balloons used in construction of defense homes; used as forms for concrete; Falls Church defense homes project. il Rubber Age 50:189-90 D '41

Wool mixtures

See Woolen and worsted fabrics—Cotton mixtures

COTTON fibers

Alignment of cellulose strands is key to cotton fiber strength; abstract. E. E. Berkley. Franklin Inst J 232:603 D '41

Behavior of cotton fiber with ammonium oxalate and cuprammonium solution. E. Heuser and J. W. Green. bibliog diags Ind & Eng Chem 33:868-72 Jl '41; Abstract. Textile Col 64:14-15 Ja '42

Review on the structure of cellulose fibers. W. Marquette. bibliog Rayon 23:518-19 S '42

Structure, properties, and utilization of cotton; influences of common agencies on behavior. R. F. Nickerson. bibliog il Ind & Eng Chem 34:1149-54 O '42

COTTON finishing

Cellulose ether and textile applications. J. A. Clark. Am Dyestuff Rep 31:110-14 Mr 2 '42

Cotton fabric constructions in relation to water resistance. il Am Dyestuff Rep 31:6-12 Ja 5 '42

Cotton; yesterday, today, and tomorrow. H. G. Knight. il Chem & Eng N 20:581-3 My 10 '42

Finishing of cotton and rayon fabrics so that they do not shrink. A. J. Hall. Textile Col 64:379-80 Ag '42

Improving the fastness of cellulose ether finishes. A. J. Hall. Textile Col 64:14 Ja '42

Linen finish for cotton huckabacks. Textile Col 64:284 Je '42

COTTON finishing—*Continued*

Modern finishing plant in Mexico for rayon and cotton piece goods. A. R. Gerstel. il Rayon 23:327-8 Je '42

Permanent finishes. Textile World 92:82 Ag '42

Processing products for replacement materials to be used in the manufacture of silk hose. C. B. Kinney. Am Dyestuff Rep 31:87-90 F 16 '42

Water repellent fabrics. Textile Col 63:671-2 D '41

Why QM rejects cotton fabrics; most common yarn faults and finishing defects. il Textile World 92:73 Mr '42

See also

Cotton fabrics
Cotton sizing
Cotton weighting
Mercerizing

COTTON flock

Fillers; swelling properties and structure. R. J. Kent and J. Seiberlich. il Mod Plastics 19:65-9+ Je '42

COTTON garment industry. See Garment industry

COTTON ginning

Accounting

Cotton gin profit charts. W. E. Paulson. map N A C A Bul 23:1093-1112 Ap 15 '42

COTTON goods

Advice to full-fashioned knitters; possibilities of substitute yarns. M. C. Miller. il diags Textile World 92:90-1+ Ap; 78-80 My; 83-4 Je '42

Bleaching cotton knit goods. E. S. Dunlap. il Textile World 92:94-5 Ap '42

Shortages of other materials give cotton its big chance; new fashions in cotton clothes, rugs, wallpaper, insulation, etc. il Sales Management 51:64-6 Ag 15 '42

See also

Cotton fabrics
Cotton yarn
Rugs, Cotton

COTTON growing

Cotton-breeding research pays off. M. G. Barnwell. il Textile World 92:73-6 My '42

New settlement in the delta of the lower Mississippi valley. P. E. Jones, J. E. Mason and J. T. Elvove. J Land & Pub Util Econ 17:465-76 N '41

COTTON insurance. See Insurance, Cotton

COTTON linters

Alkaline purification of cellulose. G. Goldfinger and H. Mark. bibliog Paper Tr J 115: 27-9 O 15 '42

Buckeye cotton oil co.; Chemical pulp division. il Chem & Eng N 20:439-40 Ap 10 '42

CCC to purchase entire supply of cotton linters. Comm & Fin Chr 156:887 S 10 '42

Dissolving pulp in war-time; supplementing linters with wood pulp in production of smokeless powder, rayon and plastics. A. D. Styles. Chem & Met Eng 48:80-2 D '41

O-pentaacetyl-*d*-gluconates of polyhydric alcohols and cellulose. M. L. Wolfrom and P. W. Morgan. Am Chem Soc J 64:2026-8 S '42

COTTON machinery

Card-room maintenance. E. H. Helliwell. il Textile World 92:96-7 S; 94-5 O '42

Rayon staple fiber spinning on the cotton system. R. Bouvet. il Rayon 23:272-3, 330-1 My-Je '42

See also

Looms
Spinning machinery
Textile machinery

COTTON manufacture

Georgia operating executives meet; discuss carding and spinning problems. Textile World 92:72-3 Ap '42

Machine-hour expansion needed. W. R. Bell. Textile World 92:71 Ap '42

See also

Cotton carding
Cotton finishing
Cotton machinery
Cotton mills
Cotton spinning
Cotton weaving
Cotton yarn

COTTON mills

Half cotton output must be converted to war goods. Comm & Fin Chr 155:1712 Ap 30 '42

20 years of progress; history of Dixie mercerizing company. E. Mauldin. il Textile World 92:80-1 Mr '42

Weave room is underground; windowless plant of Macon Textiles designed to provide uniform conditions. il Textile World 92:72-3 Jl '42

See also

Cotton manufacture

Accounting

Less work, more speed in the payroll department; Riverside and Dan River cotton mills. il Am Business 12:18-19, 47 Ap '42

Employees

Cotton trade wages. Economist 142:300 F 28 '42

Cotton wage advances. Textile World 92:122 Ag '42

Developments affecting productivity in cotton-goods industry. I. H. Siegel and C. S. Gody. Monthly Labor R 55:47-53 Jl '42

Earnings in the men's cotton-garment industries, 1939 and 1941. L. M. David and D. S. Stone. Monthly Labor R 55:335-51 Ag '42

Farms for mill workers; Avondale mills. il Textile World 91:103-4 D '41

Guarding employee health; Pepperell manufacturing company's new health clinic. il Am Business 12:18-19 My '42

Hours and earnings in manufacture of cotton goods, Sept. 1940 and April 1941. E. B. Morris and E. M. Bunn. Monthly Labor R 53:1490-1513 D '41

WLB orders cotton wage increase. B. Stubblefield. Textile World 92:83-4 S '42

Workers on defense wear badges; Bibb mfg. co. il Textile World 91:79 D '41

See also

Cotton weavers

Equipment

Better prepared by $1,600; annual saving effected by ball bearing lineshaft hangers. Rayon 23:361 Je '42

For faster war-fabric production; Mills mill, Greenville, S.C. il Textile World 92:63-4 Ja '42

Maintenance and repair

Card-room maintenance. E. H. Helliwell. il Textile World 92:68 Ag '42

Maintenance of cotton combers. il Textile World 92:69 Ag '42

Maintenance under present conditions; abstract. D. M. Benson. Textile World 92: 122 Jl '42

Management

Card-room maintenance. E. H. Helliwell. il Textile World 92:96-7 S; 94-5 O '42

Controlling stocks of cotton print cloth; some problems of inventory management in the manufacture of multi-purpose gray goods. H. S. Davis. 66p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

Inventory guides in cotton fine-goods manufacture; an analysis of mill experience in producing staple and styled gray goods. G. W. Taylor. 46p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

Plan doffing by percentage. C. McElroy and M. Gross. il Textile World 92:76-7 Je '42

Plant protection at Bibb. T. O. Ott, jr. il Textile World 92:101-3 Jl '42

Plant protection at West Point. il Textile World 92:105-6 Jl '42

Proper housekeeping, labor training and safety discussed at STA Eastern Carolina div. meeting. il Textile World 91:92 N '41

Records

Card-room maintenance. E. H. Helliwell. il Textile World 92:94-5 O '42

COTTON oil

Recovery of oil from whole cotton. E. L. Powell and F. K. Cameron. bibliog Ind & Eng Chem 34:358-9 Mr '42

COTTON picking machines

Mechanical harvesting of cotton; as affected by varietal characteristics. H. P. Smith and D. T. Killough. Mech Eng 64:604-6 Ag '42; Abstract. Science 95:sup10 Mr 27 '42

COTTON research

Cotton-breeding research pays off. M. G. Barnwell. il Textile World 92:73-6 My '42

Cotton; yesterday, today, and tomorrow. H. G. Knight. il Chem & Eng N 20:581-3 My 10 '42

Dry cleaning, laundering, cotton textiles. C. H. Bayley. il Can Chem & Process Ind 26:47-50 Ja '42

Investigations at Mellon institute 1941-42; another year of success in cotton research. Chem & Eng N 20:453-4 Ap 10 '42

Review on the structure of cellulose fibers. W. Marquette. bibliog Rayon 23:518-19 S '42

To make research pay; industry needs central organization. P. M. Strang. Textile World 92:88 Mr '42; Same. Rayon 23:164 Mr '42

COTTON rugs. See Rugs, Cotton

COTTON sizing

Sizing in war time. A. Sumner. Textile Col 64:62+ F '42

COTTON spinning

Carding and spinning problems discussed at Auburn meeting of Alabama textile operating executives. Textile World 92:94-5 Ja '42

Plan doffing by percentage. C. McElroy and M. Gross. il Textile World 92:76-7 Je '42

Spinning-room practice. W. Stockton. Textile World 91:127-8 S; 116 O; 143 N; 101-2 D '41; 92:103-4 Mr; 112 My '42

See also

Cotton yarn

COTTON stamp plan. See Cotton fabrics—Stamp plan

COTTON textile institute

Annual meeting, 15th, New York, Oct. 30-31. Textile World 91:78-9+ N '41

COTTON trade

Cotton manufacturers association of Georgia 42d annual meeting, Atlanta, May 29-30. Textile World 92:75 Je '42

Cotton textile program. Survey of Cur Business 22:8 My '42

See also

Cotton—Prices

Cotton yarn

Advertising

Cooperative cotton campaign. E. Peterson. il Ptr Ink 200:35-6+ S 11 '42

Statistics

Cotton consumption sets new record. C. T. Murchison. il Manuf Rec 111:28-9 Ja '42

Here's to cotton; demand topping all records. Business Week p94, 97 O 17 '42

Brazil

Conditions in Brazil. For Comm W 7:28 My 30 '42

Great Britain

Cotton textile shares. Economist 142:329-30 Mr 7 '42

Cotton textiles in 1941. Economist 142:sup26 Mr 14 '42

Cotton trade difficulties. Economist 142:117-18 Ja 24 '42

England's lesson in concentration. Textile World 92:64 Ag '42

Latin America

Latin American cotton exports are declining. For Comm W 6:24 F 7 '42

Peru

U.S. to buy Peru cotton; Peru will shift to other farm crops. Comm & Fin Chr 155:1786 My 7 '42

United States

Business behavior, 1919-1922. W. F. Payne. bibliog J Business 15:sup82-115 Jl-O '42

CCC conditions of cotton sales program. Comm & Fin Chr 155:349 Ja 22 '42

CCC cotton sales program. Comm & Fin Chr 155:685 F 12 '42

Cotton climbs. Business Week p76+ Ap 4 '42

Cotton consumption sets new record. C. T. Murchison. il Manuf Rec 111:28-9 Ja '42

Cotton supply-demand prospects. Barron's 21:6 N 24 '41

Cotton textile industry must increase use of machines to meet new demands. W. R. Bell. Comm & Fin Chr 155:1345 Ap 2 '42

Cotton textile problems; conversion order indicated because of supply situation; other industries attract labor. Barron's 22:6 Ap 13 '42

Cotton textiles. Survey of Cur Business 22:5-6 S '42

Export subsidy on cotton products ended. Comm & Fin Chr 154:1672 D 25 '41

Helping cotton. Business Week p63 N 22 '41

Industry gets into wartime swing. B. Stubblefield. Textile World 92:60-1 My '42

Less cotton textile stringency indicated. Barron's 22:6 My 4 '42

Loan differentials on irrigated cotton. Comm & Fin Chr 155:1347 Ap 2 '42

1941 cotton textile production set record. Comm & Fin Chr 155:680 F 12 '42

Only the best; cotton trade, busy filling war orders, buys mostly finer fiber. Business Week p97-8 Ag 15 '42

Price control effects in dairy, baking and textile industries. Barron's 22:6 Je 8 '42

20% more cotton looms needed. F. Walton. Rayon 23:257-8 My '42

Urges allocating 50% of cotton textile production for preferred contracts. W. R. Bell. Comm & Fin Chr 155:1148 Mr 19 '42

COTTON weavers

Guaranteed wage for cotton weavers in Great Britain. Monthly Labor R 53:1579-80 D '41

COTTON weaving

Axminster loom conversion; substitute for duck in military and essential civil uses. H. E. Reed. il Textile World 92:68-9 Je '42

Conversion of jacquard looms to weaving duck; abstract. T. W. Mullen. Textile World 92:122 Jl '42

Converting to cotton osnaburgs; suggestions to weavers. Textile World 92:67 Je '42

Cotton loomfixers' manual. I. Moberg. 197p $2.50 McGraw-Hill '42

Effective weave-room control. R. H. Rositzke. il Textile World 91:72-3+ D '41; 92:76-7 Ja '42

How to make cotton duck; adapting various types of looms. diag Textile World 92:61-4 Ap '42

Loomfixers' manual; cotton (cont). I. Moberg. diags Textile World 91:108 D '41; 92:98-9 Ja; 107-8 Mr; 115-16 Ap; 133 S '42

Making cotton ducks to meet government specifications. il Textile World 92:105-6 F '42

Preventing kinky filling. Textile World 92:129 S '42

Seersucker and its variations. J. Hoye. il Textile World 92:84-5 O '42

Two sets of doups for 3-end leno. A. E. McKenna. il Textile World 91:90 N '41

Weaving duck on carpet looms. il Textile World 92:69+ My '42

Why QM rejects cotton fabrics; weaving imperfections; other defects. il Textile World 92:55 Ja '42

Why warp ends break in weaving. W. T. Schreiber. il Textile World 92:75 Ja '42

See also

Cotton fabrics

COTTON weighting

Cold process weighting of bleached cotton underwear and similar fabrics; example of woolen knit goods. Textile Col 63:699-700 D '41

COTTON workers
See also
Cotton mills—Employees
Cotton weavers

COTTON yarn
Knitting the new hosiery; handling cotton and rayon on full-fashioned machines. W. A. Simond. il diags Textile World 92:86-7 O '42
New ceiling prices on carded yarns are based on spot cotton. Rayon 22:648-9 N '41
Package testing previous to pressure dyeing. D. C. Hardman. diags Am Dyestuff Rep 31: 345-8, 367-72 Jl 20 '42
Preventing kinky filling. Textile World 92: 129 S '42
Why QM rejects cotton fabrics; most common yarn faults and finishing defects. il Textile World 92:73 Mr '42

Testing

Determination of the load to straighten but not stretch single cotton yarns of different numbers. H. J. Ball. Rayon 23:421-2 Jl '42; Same cond. il diag Textile World 92:86-7 Mr '42

COTTONING machines. See Bottling machines

COTTONSEED
Amino acid composition of cottonseed globulin preparations. T. D. Fontaine, H. S. Olcott and A. Lowy. bibliog Ind & Eng Chem 34:116-18 Ja '42
Chemistry of allergens; chemical composition and properties of an active carbohydrate-free protein from cottonseed. J. R. Spies and E. J. Umberger. Am Chem Soc J 64:1889-91 Ag '42
Chemistry of allergens; the amino acid content of active protein and polysaccharidic protein fractions from cottonseed. J. R. Spies. bibliog Am Chem Soc J 63:2994-6 N '41
Commercial cottonseed production in Brazil. T. E. R. Singer. Chem Ind 51:243 Ag '42

Prices

Cottonseed, linseed pricing plan issued. Oil Paint & Drug Rep 142:3+ S 7 '42

Statistics

Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter

COTTONSEED meal
Cottonseed meal in phenolic plastics. F. Rosenthal. bibliog il Ind & Eng Chem 34: 1154-7 O '42
Effect of cooking on solubility of cottonseed-meal proteins. H. S. Olcott and T. D. Fontaine. bibliog Ind & Eng Chem 34:714-16 Je '42

COTTONSEED oil
Antioxidants and autoxidation of fats; the isolation of new antioxidants from vegetable fats. C. Golumbic. bibliog Am Chem Soc J 64:2337-40 O '42
Buckeye cotton oil co. il Chem & Eng N 20: 438-9 Ap 10 '42
Chemistry's contribution to the cottonseed industry. G. Holcomb. il Chem & Eng N 20:440-2 Ap 10 '42
Cottonseed-oil industry in the state of Sao Paulo. For Comm W 7:26 My 2 '42
Diesel reduces costs 70 percent in cottonseed-oil mill. C. P. Thomas. il Diesel Power 20:571-2 Jl '42
Expression of vegetable oils; general equation on oil expression. E. C. Koo. bibliog Ind & Eng Chem 34:342-5 Mr '42
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38: 891-930 O '42
Wanted: fats, oils. Business Week p100+ D 6 '41

Statistics

Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter

COTTONWOOD
Hemicelluloses of cottonwood; abstract. E. Anderson, R. B. Kaster and M. G. Seeley. Paper Ind 24:776 O '42

COUGH drops
Vick's new cough drop plant. flow chart il Mod Packaging 15:75-7 Ag '42

COUMARAN. See Dihydrobenzofuran

COUMARONE resins. See Resinous products

COUNCIL BLUFFS, Iowa

Water supply

Council Bluffs builds twin reservoirs of prestressed reinforced concrete. il Concrete 50:2-3 Ap '42; Same. Pub Works 73:11-12 Je '42

COUNCIL of electric operating companies
National membership for operating company group; Council of electric operating companies organized to cooperate with government. Elec W 117:1019 Mr 21 '42

COUNCIL of ironfoundry associations
British foundry groups form national council. Foundry 69:115-16 D '41

COUNCIL of national library associations
Constitution. Special Lib 33:90-1 Mr '42
Council of national library associations. Special Lib 33:25 Ja '42

COUNCIL of organized consumers
National consumer federation organized at CU conference. P. H. Erbes, jr. Ptr Ink 199:11-12+ Je 19 '42

COUNTER displays. See Display of merchandize

COUNTERCURRENT leaching. See Extraction processes

COUNTERFEITS and counterfeiting
Big bad bill; cartoons. J. H. Irwin and B. Kirkpatrick. Banking 34:26-7 My '42
By their faces ye shall know them. J. T. Baber. Bankers M 144:300-4 Ap '42
Our United States secret service. I. Crump. 264p $2 Dodd '42

COUNTERPOISES
Lightning investigation at high altitudes in Colorado. L. M. Robertson, W. W. Lewis and C. M. Foust. bibliog il diag Elec Eng 61:Trans 201-8 Ap '42
Lightning investigation on Wallenpaupack-Siegfried 220-kv line of Pennsylvania power and light company. E. Bell and F. W. Packer. bibliog diags Elec Eng 61:Trans 196-201 Ap '42
Pick-up and resistance of counterpoise systems. W. W. Lewis. Elec W 116:1720-1+ N 29 '41
Practical design of counterpoise for transmission-line lightning protection. E. Hansson and S. K. Waldorf. bibliog diags Elec Eng 61:Trans 599-603 Ag '42
Study of driven rods and counterpoise wires in high-resistance soil on Consumers power company 140-kv system. T. G. Hemstreet, W. W. Lewis and C. M. Foust. Elec Eng 61:Trans 628-33 S '42

COUNTERS (electrons, ions, etc.)
Behavior of proportional counter amplification at low voltages. M. E. Rose and W. E. Ramsey. diag Phys R 61:198-9 F 1 '42; Same. Franklin Inst J 233:500-2 My '42
Complete proportional counter arrangement for cosmic-ray measurements. P. Weisz and W. E. Ramsey. diags R Sci Instr 13: 258-64 Je '42
Detection of radon by means of a proportional counter. S. C. Brown, L. G. Elliott and R. D. Evans. diags R Sci Instr 13:147-51 Ap '42
Inefficiency and other sources of error in cosmic-ray measurements with self-quenching counters. K. Greisen and N. Nereson. diags Phys R 62:316-29 O 1 '42
Operation of proportional counters. S. A. Korff. bibliog diags Rs Mod Phys 14:1-11 Ja '42

COUNTERS (electrons, ions, etc.)—*Continued*

Production of neutrons and protons by the cosmic radiation at 14,125 feet. S. A. Korff and E. T. Clarke. bibliog Phys R 61:422-7 Ap 1 '42

Proportional counter amplification at low voltages. M. E. Rose and W. E. Ramsey. bibliog diag Phys R 61:504-9 Ap 1 '42

Temperature coefficients in self-quenching counters. S. A. Korff, W. D. B. Spatz and N. Hilberry. R Sci Instr 13:127 Mr '42

Theory of the initial avalanche in the breakdown of a discharge counter in helium. S. C. Brown. diags Phys R 62:244-54 S 1 '42

See also

Geiger-Müller counters

COUNTERSINKS

Sheet metal stops chattering countersink. F. S. McGibbon. diag Am Mach 86:1094 O 1 '42

COUNTING

Weigh to get quick counts; scales determine output of screw machine operators on piece work. R. F. Nortman and W. S. Hansen. il Factory Management 100:65-6 Jl '42

See also

Stars—Counting

COUNTING machines and devices

Boosts mechanical impulse; device used in conjunction with counter on loom; patent assigned to Veeder-Root company. diags Machine Design 14:128+ My '42

Electric recording marking counter for the consecutive counting of small objects; counting projected cross sections of wool fibers. H. W. Wolf. diag Science 96:409-10 O 30 '42

Electronic counter for rapid impulses; study of the spontaneous activity of nerves. B. Wellman and K. Roeder. diags Electronics 15:74+ O '42

Movable scales speed weigh-counting; Waukesha motor co. il Steel 110:104+ My 11 '42

See also

Traffic counters

COUNTRY banks. See Banks and banking—Country banks

COUNTRY houses

English country houses. V. Sackville-West. 46p $1.85 Chanticleer press, 347 Madison av, New York '41

Five houses in St Joseph's, New York, forming small private summer resort. il plans Arch Forum 76:248-52 Ap '42

House in Frenchtown, N.J.; addition built from materials salvaged from barn on the property; views and plans. Arch Forum 75:350-2 N '41

Project for a country house; Antonin Raymond, architect; views and plans. Arch Forum 75:347 N '41

Raymond farm, New Hope, Pa., house including architectural office. il diag plans Arch Forum 75:341-6 N '41

Summer house in Duxbury, Mass.; views, plans, and construction outline. Arch Forum 75:402-3 D '41

COUNTRY stores

Merchandise availability in Utah. D. E. Faville, D. M. Jones and R. B. Sonne. 229p $3 Stanford univ. press '42

Will the war bring back the hick store? R. B. Simpson. il Adv & Sell 35:46+ Je '42

See also

Retail trade—Small town stores

COUNTY buildings

See also

Courthouses

COUNTY employees

Employment and pay rolls in state and local governments, 1941. Monthly Labor R 53:1168-71 N '41

COUNTY engineering

Careful planning and training of WPA workers. E. G. Hurst. il Pub Works 72:19-20+ D '41

How one county keeps within the road budget; Cherokee county, Kansas, engineering department; system of records and reports. C. M. Cooper. Pub Works 73:16-18 Ja '42

See also

Roads, County

COUNTY government

County government in Virginia; a symposium. 62p bibliog(p59-62) pa 50c Bur. of public administration, box 1667, University station, Charlottesville, Va. '42

County unit of local government. E. P. Rosenthal. 195p $1 Edgar Phillip Rosenthal, 2530 N. 52d st, Milwaukee '41

COUNTY libraries

County library primer. M. W. Sandoe. 221p bibliog(p170-216) $2.25 Wilson, H.W. '42

COUNTY planning

Ordnance causes ordinance in Crawford county, Pennsylvania; TNT plant results in zoning. L. F. Diehl. J Land & Pub Util Econ 18:357-63 Ag '42

COUNTY roads. See Roads, County

COUPLINGS

Affords vernier adjustment in coupling magnetos to multicylinder engines; patent. diag Machine Design 14:130+ F '42

Barcus gear coupling. il Mach 49:210 S '42

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

Flexible coupling for screen drive. R. A. Harker. diag Rock Prod 45:37 F '42

Hydraulic couplings in a cable-making factory. il diags Engineer 173:165-6 F 20 '42

Lovejoy floating shaft coupling. diag Paper Tr J 113:116 N 27 '41

Reversible magnetic coupling. diags Engineering 152:305-6 O 17 '41

Salvaging power in engine testing; how to pump power from a varying-speed source into a constant-frequency system. G. E. Cassidy. diag Aviation 41:88-9 Ap '42

Temporary repairs to flexible couplings. W. W. McClow. diags Power 86:809 N '42

Tool for re-forming two-piece compression copper tubing couplings. J. C. Whitwell and W. T. McKee. diags Chem & Eng N 20:1109-10 S 10 '42

See also

Clutches

Joints

COURAGE

War worker cited for heroism on the job. Nat Safety N 45:69 Ap '42

COURTHOUSES

Criminal courts building and city prison, New York city. il plans Arch Forum 76:253-60 Ap '42

Now a low-cost court house, and it's concrete; Gallatin County courthouse, New Shawneetown, Ill. il Concrete 49:26 D '41

COURTNEY, Thomas Earl, 1895-

Farewell to loans; how a finance company converted itself. por Business Week p19-20 Ap 4 '42

COURTS

United States Courts of appeals for administration. F. F. Blachly and M. E. Oatman. Ann Am Acad 221:170-82 My '42

See also

United States—Supreme court

COURTS, Industrial

Government of labor relations in Sweden. J. J. Robbins. 367p $3.50 Univ. of North Carolina press, Chapel Hill '42

COURTS, International

International courts in the postwar world. M. O. Hudson. Ann Am Acad 222:117-23 Jl '42

COVER plates. See Columns, Steel

COVERLETS
All-America package competition; award to Bates fabrics, inc.; display for showing bedspreads, by means of shadow box and colored transparencies. il Mod Packaging 15:208-9 Ap '42
Bedspread and cushion cover fabrics; practical considerations in dyeing and finishing mixed viscose and acetate rayon textures. Textile Col 64:179-81 Ap '42

COVERS (printing)
Typographic clinic; Baker University booklet. F. H. Young. il Inland Ptr 109:52-3 My '42

COVERT cloth
Fabrics for military purposes; WAACS winter uniforms made of covert cloth. il Textile World 92:76 O '42

COW sprays. See Fly sprays and repellents

COWLES, Walter Goodman, 1857-1942
Sketch. por East Underw 43:37 Je 5 '42; por Nat Underw 46:19+ Je 4 '42; Weekly Underw 146:1294-5 Je 6 '42

COWS
See also
Cattle trade
Pastures

COX, William Junkin, 1896-
Connecticut highway commissioner is cleared of all misconduct charges. Eng N 129:188-9 Ag 6 '42

COZY corners. See Architecture, Domestic—Details

CRAM, Ralph Adams, 1864-1942
Sketch. por Arch Forum 77:104 O '42; Tech R 45:52+ N '42

CRAMP shipbuilding company
Cramp's rehabilitated shipyard. M. Guralnick. il Marine Eng 46:60-6 D '41

CRANBROOK institute of science, Bloomfield Hills, Michigan
Cranbrook, an educational and cultural community. M. T. Bingham. Special Lib 33:155-9 My-Je '42

CRANBROOK schools, Bloomfield Hills, Michigan
Cranbrook, an educational and cultural community. M. T. Bingham. Special Lib 33:155-9 My-Je '42

CRANE company
Annual report. Comm & Fin Chr 155:1507 Ap 13 '42
Investment audit. H. J. Nelson. Barron's 22:13 Mr 2 '42

CRANES, derricks, etc.
Automatic welding gantry for making long continuous welds. il Mach 48:186 D '41
Baker-Raulang heavy-duty locomotive type crane truck. il Am Mach 86:1198 O 15 '42
Better handling scheme doubles number of engine tests. F. L. Spangler. il Steel 111:100, 103 Jl 6 '42
Boom crane weight indicator increases speed, safety. il Marine Eng 47:140 My '42
Bridge travelers erect aircraft building; airplane repair buildings and hangars. il Eng N 129:108-9 Jl 16 '42
Crane and tower on flatcar expedite pouring concrete. il Roads & Sts 85:35 Mr '42
Crane locomotive with lifting magnet. il Engineering 153:467-8 Je 12 '42
Crane rides old turntable to prepare pit for new one. il Eng N 128:481 Mr 26 '42
Cranes speed war work. il Roads & Sts 85:35 S '42
Cylinder columns carry shipyard cranes. il diags Eng N 128:324-6 F 26 '42
Diesel crane used on breakwater construction. il Diesel Power 19:1032 D '41
4½-ton mobile crane for railway work. il(p370) Engineering 152:375 N 7 '41
Getting the most from shovels and cranes; suggestions from manufacturers include: warnings against counterweights, hints on speeding excavation by use of smaller buckets, and directions for proper methods of shovel bucket filling. il Eng N 129:176-8 Jl 30 '42
Guyless erection method; construction of a 50,000-gallon watersphere at Fall River, Wis. il diags Steel 110:86, 88 My 4 '42
Handling equipment for speeding aircraft production. L. V. Spencer. il Aero Digest 41:206+ Ag '42
Handling time cut 96 per cent; receiving and storing sheet steel at plant of A. S. Campbell co. il Steel 110:82+ Ap 6 '42
Hanging a water main under a bridge; mobile pipe-lifting derrick. H. M. Neighbour. il Pub Works 73:18 Jl '42
High-speed coal handling cranes. il Mech Handling 29:176 S '42
Hydraulic braking systems for overhead traveling cranes. J. S. Smith. il Steel 111:80, 82 Jl 27 '42
New inland ruling on insurance of cranes. East Underw 42:27 N 28 '41
Osgood's new mobilcrane. il Roads & Bridges 80:54 S '42
Reducing outage time of bucket cranes; preformed rope found to be advantageous. F. L. Spangler. il Mass Transportation 38:103 Ap '42
Short jib crane simplifies parts handling. M. T. Pate. il Eng N 128:43 Ja 1 '42
Tournapull cranes. il Ry Age 112:550 Mr 14 '42
Travelling cranes, hoists, etc.; patent specification. diags Mech Handling 29:167-8 S '42
Travelling gantry for continuous welds. il Engineering 154:46 Jl 17 '42
Versatile materials handling aid; truck crane. il Steel 111:120+ S 14 '42

Electric equipment

Alternating-current operation of overhead cranes. Engineering 152:496-7 D 19 '41
Controller resistances. W. de Renzi. diags Electrician 129:93-7 Jl 24 '42
Electric control systems on overhead travelling cranes. Mech Handling 29:161-2 S '42
Heavy-duty trolley bus service cranes. il Elec W 117:525 F 7 '42

Manufacture

Boat crane booms are welded from tubular members. il diags Steel 110:96, 99-100 My 25 '42
Welding design saves steel; welders show designing ingenuity in utilizing scrap pipe. A. F. Davis. il Welding J 21:269-70 Ap '42

Safety measures

Air-conditioned crane cab; protection from smoke and fumes; American smelting & refining co. diag Eng & Min J 143:64 Ja '42
Crane cab air-conditioners now highly developed; Lintern corp. il Steel 111:89 Jl 6 '42
Crushing without danger; metal by-products plant. F. S. Bixby. il Safety Eng 83:22-3 F '42
Design of rail clamps for traveling cranes. G. F. Wolfe. il Steel 109:72, 74 N 17 '41
Regular crane inspection reduces maintenance, avoids breakdowns, assures safety. T. Marney. il Steel 111:135+ O 5 '42
Safe crane operation. W. J. Savage. il Safety Eng 82:15-16 N '41
Safety up above. W. R. Stewart. il Safety Eng 84:51-3 O '42
Standard signals make crane operation safer and faster. F. M. Blum. il Steel 111:67 Ag 24 '42; Same. Factory Management 100:115 S '42
Steel production aided by air conditioned crane cabs. H. W. Moore. il Heating-Piping 14:111-13 F '42; Same abr. Steel 110:102+ Je 15 '42

CRANIOMETRY
Analysis of merycoidodon skulls. F. B. Phleger, jr. and W. S. Putnam. bibliog Am J Sci 240:547-66 Ag '42

CRANKCASES
How to secure rigidity in aluminum crankcase. diags Automotive & Aviation Ind 87:76+ Ag 15 '42

CRANKSHAFTS
Axial vibration of Diesel engine crankshafts. R. Poole. diags Inst Mech Eng J & Proc 146:Proc 167-82, pl 1-2 F '42; Same cond. Engineer 173:29-31, 60-2 Ja 9-16 '42

CRANKSHAFTS—*Continued*

Control of torsional vibration in radial aircraft engines by means of tuned pendulums. V. Moore. diags J Aeronautical Sci 9:229-44 My '42

Crankshaft failures; investigations in research department of Institution of automobile engineers. C. G. Williams and J. S. Brown. il diags Automobile Eng 31:401-5 N '41

Crankshafts; effect of chromium-deposition; use of nickel; abstract. R. E. Wilson. Automobile Eng 32:272 Jl '42

Dynamic absorber and its application to multi-throw crankshafts. S. B. Bailey and C. H. Bulleid. Inst Mech Eng J & Proc 145:Proc 73-82 My '41; Discussion. 146:Proc 81-95 D '41

Electric welding repairs broken crankshaft. G. Barrett. diags Power 86:586-7 Ag '42

German crankshaft design; Junkers Jumo 211-B aircraft engine. diag Automobile Eng 32:402 O '42

Inspection procedure for Diesel engines. E. R. Spencer. il diag Power Pl Eng 46:70-3 F '42; Same cond. Power 86:188-90 Mr '42

Investigations on shaft fillets. P. Grodzinski. diags Engineering 152:321-4 O 24 '41

Manufacture

Aircraft engine crankshafts by the thousands; Ohio crankshaft co. il Steel 110:62-4 Je 22 '42

Alloy cast-irons; Midland motor cylinder co., ltd. il Automobile Eng Extra no 31:384-5 N 6 '41

Cast engine parts; Ford motor co., ltd. il Automobile Eng Extra no 31:379-81 N 6 '41

Crankshafts for the Wright Cyclone; Ohio crankshaft company. J. Geschelin. il Automotive & Aviation Ind 86:8-15 Mr 1 '42

Design of cast crankshafts; abstract. E. M. Currie and R. B. Templeton. Metals & Alloys 15:1056+ Je '42

Forging Buick crankshafts. A. F. Macconochie. il Steel 110:66-8 Mr 2 '42

Induction hardening. il Automobile Eng 32:101-2 Mr '42

Manufacture of high test cast iron crankshafts. E. M. Currie and R. B. Templeton. il Iron Age 149:42-6 My 21 '42; Excerpts. Metals & Alloys 16:308 Ag '42

New plants of 1941; airplane engine crankshafts. il Factory Management 100:B39-B41 Ap '42

Planned to speed a war product; Ohio crankshaft plant. H. W. Sellers. il Factory Management 100:64-8 Ja '42

Precision machining operations on the Cyclone 14 crankshaft. J. F. McCarthy. il plans Aero Digest 39:198, 201-2+ D '41

Reducing aviation crankshaft rejects. Iron Age 149:61 Je 4 '42

Testing

Crankshaft failures; investigations in research department of Institution of automobile engineers. C. G. Williams and J. S. Brown. il diags Automobile Eng 31:401-5 N '41

Effect of magnetic field distribution in magnetic inspection. F. L. Fuller. il diags J Aeronautical Sci 9:202-6 Ap '42

Fatigue strength of crankshafts. C. G. Williams and J. S. Brown. il diags Engineering 154:58-9, 78-80 Jl 17-24 '42

CRATERS

Origin of Haleakala crater, Island of Maui, Hawaii. H. T. Stearns. bibliog il Geol Soc Bul 53:1-13, pl 1 Ja '42

CRAVENETTE

War dumps new sales opportunities on Cravenette doorstep. Sales Management 51:41-2 Ag 15 '42

CRAZING. See Glazes

CREAM

Further studies on the use of salt for improving the quality of cream for buttermaking; abstract. F. E. Nelson, W. J. Caulfield and W. H. Martin. Food Ind 14:106 Ag '42

CREAMS, Cleansing. See Cosmetics

CREASING of textiles

Anti-crease finish. Textile Col 64:258 My '42

Making fabrics crease resistant and water-repellent, use the lower alkyl ethers of dimethylol urea. A. J. Hall. Textile Col 64:173-4 Ap '42

CREATION (literary, artistic, etc.)

Psychology of artistic creation as evidenced in autobiographical statements of artists. H. E. Rees. 209p bibliog(p181-92) $2.35 Teachers college '42

CREDIT

Big new problems facing credit men. H. J. Delaney. Credit & Fin Management 44:20-1 Jl '42

Care in checking credit risks; system of Pass & Seymour, inc, Syracuse, N.Y. R. M. Wilder. Credit & Fin Management 44:10-11+ Mr '42

Change as a challenge in credit; improvements must be based upon more accurate knowledge. P. M. Millians. Credit & Fin Management 44:22, 24-5 Ja '42

Colonial America; a financial experiment. R. A. Foulke. il Dun's R 50:13-18, 42-4 Mr '42

Commercial credit analysis; appraising the soundness and liquidity of inventories. E. F. Gee. Credit & Fin Management 44:15-18+ Ja '42

Commercial credit analysis; bad debt losses and reserves. E. F. Gee. Credit & Fin Management 43:16-19 D '41

Commercial credit analysis; methods of evaluating inventories. E. F. Gee. Credit & Fin Management 44:12-15+ Mr '42

Commercial credit analysis; the further analysis of inventories. E. F. Gee. Credit & Fin Management 44:12-14+ F '42

Commercial credit and collection practice. W. H. Irons. 606p $4.50 Ronald press '42

Consumer credit outlook. J. Burgess. Banking 35:53 S '42

Credit analysis a problem for banks. R. A. Foulke. Bankers M 144:197-201 Mr '42

Credit control; a study of the genesis of the qualitative approach to credit problems. H. J. Mellon. 134p bibliog(p130-4) $2 Am. council on public affairs, Washington, D.C. '41

Credit for the duration, and after; address at 47th annual credit convention. H. H. Heimann. Credit & Fin Management 44:4-7 Je '42

Credit granting that pleases people. K. Hampton. Elec West 88:56 Mr '42

Credit hazards in war industries. W. Becker. Credit & Fin Management 44:18-19+ S '42; Abstract. Management R 31:394-5 N '42

Credit in a war economy; varied problems challenge executives. E. N. Felio. Credit & Fin Management 44:10-12 Jl '42

Credit in the insurance business. D. C. Campbell. Credit & Fin Management 43:20-1 D '41

Credit lessons of the last war. J. W. Edenburn. Credit & Fin Management 44:7-10 Ap '42

Credit man talks to retailers; why good credit is so valuable in business. G. T. Brian, jr. Credit & Fin Management 44:17-18+ Ap '42

Credit outlook for railroads. E. H. Bunnell. Credit & Fin Management 44:22, 24-7 F '42

Credit problem in sales; talk to salesmen in the flour industry. Credit & Fin Management 43:28-30 D '41

Credit problems in a war economy. R. A. Foulke. 71p Dun & Bradstreet, New York '42; Review. Bankers M 144:357-8 Ap '42

Credit ratings for 15 occupations; pictograph. Sales Management 51:36 S 15 '42

Credit year book shows changing trend. Comm & Fin Chr 156:1272 O 8 '42

Defense brings credit problems. N. E. Paine, jr. Credit & Fin Management 44:12-14 Ja '42

Discourage useless consumer borrowing. W. B. French. Comm & Fin Chr 154:1344 D 4 '41

Easy arms credit; wide variety of financing aids. Business Week p75-6 Ap 4 '42

CREDIT—*Continued*

Factors affecting credit ratings of consumers located in Franklin county, Ohio. D. A. Stewart. 86p pa 50c Ohio state univ, Bur. of business research, Columbus '42

Financial statements in credit appraisals. L. S. Day. Credit & Fin Management 44:16-18 N '42

Important credit problems for 1942. E. B. Gausby. Credit & Fin Management 44:4-7, 30 Ja '42

Less credit buying. Business Week p57-8 S 26 '42

Liquidation of many credit agencies seen. Comm & Fin Chr 156:991 S 17 '42

Open letter to the industrialists; urgency of skillful credit management in a war economy. F. H. Eichler. Credit & Fin Management 44:10-11 N '42

Our powerful credit weapon. R. A. Foulke. il Banking 34:19-22+ F '42

Philosophy for new accounts. R. N. Harwood. il Credit & Fin Management 44:12-13 S '42

Place of credit in marketing available civilian supplies. J. H. Stehman. Credit & Fin Management 44:19-20 Je '42

Plan that cut credit period; reduced average account from 120 to 60 days. R. McDaniel. Credit & Fin Management 44:39 Ja '42

Proceedings, consumer credit conference, American bankers association, St Louis, April 23-25, 1941. 214p $2.50 Am. bankers assn, Consumer credit dept, New York '41

Ratios; what they tell us. F. S. Lunt. Credit & Fin Management 44:8-11+ F '42

Reducing credit losses; better credit information will lower default ratios. C. L. Jamison. Credit & Fin Management 44:26-9 Ja '42

Retail credit. N. A. Brisco and R. M. Severa. 645p $5.35; school ed $4 Prentice-Hall '42

Retail credit survey, 1939. M. L. Merriam. maps U S Bur For & Dom Com, Domestic Commerce Ser 112:1-193; pa 20c Supt. of doc. '41

Retailers serene; new credit rules. Business Week p45-6 My 16 '42

Some after-the-war credit problems. R. Johnson. Credit & Fin Management 44:19-20+ O '42

Thirty-six notes replaced by one; Prosperity company, inc, Syracuse; credit for purchasers of pressing machines. G. T. Simpson. Credit & Fin Management 44:13-16 Ap '42

Use of credit for accumulation of inventories. M. S. Eccles. Fed Res Bul 28:645-6 Jl '42

War time credit complications; fatalities among retailers. J. E. Bullard. Credit & Fin Management 44:11+ N '42

See also

Accounts receivable
Agricultural credit
Assignment of book accounts
Bankruptcy
Banks and banking
Billing
Business failures
Cash on delivery system
Charge accounts (retail trade)
Collecting of accounts
Credit departments
Credit unions
Debtor and creditor
Discount, Cash
Federal reserve banks—Credit policy
Finance companies
Financial statements
Government loans and grants
Government loans to industry
Instalment plan
Insurance—Credit aspects
Loans, Small
Military service—Credit aspects
Salesmen and credit
Securities
Shopping services
Warehouse receipts

also National association of credit men

Economic aspects

Instalment credit in our national economy. G. Haberler. Credit & Fin Management 44:11 S '42

Professional credit management; it is vital part of our economic life. W. B. White. Credit & Fin Management 44:6-8 Ag '42

History

Evolution of financing institutions from 1841. R. A. Foulke. il Dun's R 50:13-17+ Je '42

Law

Appeal credit inquiry case; bank held liable for report on customer. Credit & Fin Management 44:13-14 Ag '42

See also
Collection laws

Statistics

Credit losses from business failures compared with the volume of business transacted in the United States, 1900 to 1940; table. Credit & Fin Management 44:28 Ja '42

Great Britain

Check trading. Economist 143:370-1 S 19 '42

Latin America

Latin America as a credit risk. A. O. Stanley. il Dun's R 50:16-19 Jl '42

Latin-American credit survey; 28th semi-annual report on collections. P. J. Gray. Credit & Fin Management 44:17-18 Ag '42

Latin-American credits continue up-turn; semi-annual survey. K. H. Campbell. Credit & Fin Management 44:19-20 F '42

CREDIT (economics)

Fundamentals of credit do not change. P. F. Cadman. Credit & Fin Management 44:4-7+ Mr '42

See also

Agricultural credit
Banks and banking
Inflation (finance)
Money

CREDIT, Bank

Automatic credit gives small borrowers a break. Sales Management 50:34 Ap 20 '42

Credit analysis a problem for banks. R. A. Foulke. Bankers M 144:197-201 Mr '42

Management policies by industries; retail druggists. J. J. Shine. il Bankers Mo 59:18-20+ Ja '42

Many advantages in participation credits. W. S. Woods. Bankers M 144:410-12 My '42

New wrinkles; check-credit plan of Merchandise national bank of Chicago; designed to meet the needs of small wage earner, provides automatic credit extension. Barron's 22:5 Ap 20 '42

Our powerful credit weapon. R. A. Foulke. il Banking 34:19-22+ F '42

Travel on bank credit shows rapid increase. Burroughs Clearing House 26:3 D '41

Value of an audit to a banker. R. D. Withington. Bankers M 144:212-15 Mr '42

See also

Agricultural credit
Banks and banking—Credit departments
Insurance—Credit aspects
Loans, Bank

CREDIT, Foreign

See also
Credit—Latin America

CREDIT agencies, Government. See Government loans and grants

CREDIT and insurance. See Insurance—Credit aspects

CREDIT associations

See also
Credit unions
National association of credit men

CREDIT departments

Better business correspondence in war. C. C. Parkhurst. Credit & Fin Management 44:19-21+ N '42

Credit department cooperation; wholesaler shows how team-work boosts firm's profits. T. B. Hendrick. Credit & Fin Management 44:19-21+ Ja '42

Credit in a war economy; Colgate-Palmolive-Peet company. E. N. Felio. Credit & Fin Management 44:10-12 Jl '42

Definite collection policy; importance of a systemized routine. W. N. Kuntz, jr. Credit & Fin Management 43:12-13+ D '41

CREDIT departments—*Continued*

Financial statements in credit appraisals; W. F. Schrafft & company, Boston. L. S. Day. Credit & Fin Management 44:16-18 N '42

Good will side of credits; credit manager looks over the fence at sales. D. A. Grant. Credit & Fin Management 44:22, 24 N '42

Problems in non-defense industries. S. C. Munroe. Credit & Fin Management 44:20-1 S '42

Psychology of credit letters. H. M. Sommers. Credit & Fin Management 44:4-7+ S; 10-12+ O; 12-15, 26-30 N '42

See also

Banks and banking—Credit departments
Credit managers
Salesmen and credit

Records

Care in checking credit risks; system of Pass & Seymour, inc, Syracuse, N.Y. R. M. Wilder. Credit & Fin Management 44:10-11+ Mr '42

14 questions to ask salesmen; a plan used to revise credit files periodically. W. J. Claussen. Credit & Fin Management 44:16-17+ S '42

Full information all along the line; General aniline and film corporation, Agfa Ansco division. C. E. King. il Credit & Fin Management 44:7-9+ My '42

Functional credit system combines accounts receivables and credits; A. E. Staley mfg. company, Decatur, Ill. C. V. Cox. il Credit & Fin Management 43:4-6+ D '41

New system speeds up credit routine; credit cards replace ledger sheets; Norwich pharmacal co. H. A. Cunningham. il Credit & Fin Management 44:4-7, 37 F '42

System saves time and work; original invoice replaces ledger card in handling accounts receivable; American chicle co. A. H. Mader. il Credit & Fin Management 44:4-7+ O '42

Thirty-six notes replaced by one; Prosperity company, inc, Syracuse; credit for purchasers of pressing machines. G. T. Simpson. Credit & Fin Management 44:13-16 Ap '42

CREDIT education

Adult education in business. C. D. Smith. Credit & Fin Management 44:15-16 F '42

Education, for adults! NACM summer institute of credit management. M. G. Kroger. Credit & Fin Management 44:18-19 My '42

Summer institute of credit management faculty. Credit & Fin Management 44:19 Ap '42

CREDIT insurance. See Insurance, Credit

CREDIT interchange bureaus

Credit interchange problem. M. V. Johnston. Credit & Fin Management 44:8-9 O '42

Watching credits; merchants in Philadelphia pool their data in single bureau. Business Week p58 Ap 18 '42

CREDIT interchange reports

Our own credit interchange; its added effectiveness under present conditions. G. C. Klippel. Credit & Fin Management 44:8-10+ Je '42

CREDIT managers

Education, for adults! NACM summer institute of credit management. M. G. Kroger. Credit & Fin Management 44:18-19 My '42

Good will side of credits; credit manager looks over the fence at sales. D. A. Grant. Credit & Fin Management 44:22, 24 N '42

How'm I doin? a credit manager gets a rating on himself. H. E. Bucher. Credit & Fin Management 44:16-18+ O '42

Important credit problems for 1942. E. B. Gausby. Credit & Fin Management 44:4-7, 30 Ja '42

Professional credit management. W. B. White. Credit & Fin Management 44:6-8 Ag '42

CREDIT men

Big new problems facing credit men. H. J. Delaney. Credit & Fin Management 44:20-1 Jl '42

How credit men can aid in civilian defense. Credit & Fin Management 44:18+ N '42

CREDIT men, National association of. See National association of credit men

CREDIT unions

Credit union boosts defense bond sales; Illinois Central Cicero. il Am Business 12:29-30 Ap '42

Credit union: the worker's bank. E. Stone. Management R 31:262 Ag '42

How to abolish the loan shark; credit unions meet employees' needs. Ry Age 112:1108-10 Je 6 '42

Operations of credit unions in 1941. Monthly Labor R 55:540-7 S '42

See also

Loans, Small

CREEP of materials

Creep tests on cellulose acetate. W. N. Findley. il diag Mod Plastics 19:71-3+ Ag '42

Effect of change in moisture-content of the creep of concrete under a sustained load. G. Pickett. bibliog diags Am Concrete Inst J 13:333-55 F '42

Plastics and the time factor. H. Leaderman. Am Dyestuff Rep 31:227-30, 246-8 My 11 '42

CREEP of metals

Creep of copper alloys; abstracts. H. L. Burghoff, A. I. Blank and S. E. Maddigan. Iron Age 150:62 Jl 9 '42; Min & Met 23:390 Jl '42; Engineering 154:290 O 9 '42

Creep of malleable iron; abstract. J. J. Kanter and G. Guarnieri. Iron Age 150:62 Jl 9 '42

Creep of metals determined by new method. S. Dushman. Comp Air M 46:6625 D '41

Creep rates of cold-drawn nickel-copper alloy (monel metal). J. A. Bennett and D. J. McAdam, jr. pl diags J Research Nat Bur Stand 28:417-37 Ap '42

Creep recovery of a 0.17 per cent carbon steel. A. E. Johnson. bibliog Inst Mech Eng J & Proc 145:Proc 210-20 O '41; Discussion. 146:Proc 187-8 F '42

Creep strength of 18-8 Ti. A. M. Portevin. Metal Prog 41:88 Ja '42

Effect of carbide spheroidization upon the creep strength of carbon-molybdenum steel. S. H. Weaver. il Am Soc T M Proc 41:608-27; Discussion. 628 '41

Electronic robot measures creep of metals. il Mach 49:160-1 O '42; Electronics 15:86+ N '42

Heat-resisting steels. Automobile Eng Extra no 31:372-3 N 6 '41

Influence of structure on high-temperature strength. C. L. Clark. il Oil & Gas J 41:44+ My 21; 48 Je 4 '42

Measuring microscope for use in creep-rate analysis. il diag Machine Design 14:60 Jl '42

Mechanics of creep for structural analysis. J. Marin. bibliog diags Am Soc C E Proc 68:719-35 My '42; Discussion. 68:1205-15 S '42

Structural changes in carbon steels caused by creep; abstract. C. H. M. Jenkins, G. A. Meller and E. A. Jenkinson. Iron Age 149:48 Ap 23 '42

See also

Steel—Testing—Temperature effects

CRENOTHRIX. See Iron bacteria

CREOSOTE

Creosote oil as a fuel in compression ignition engines. R. J. Bramhall. Gas J (Lond) 236:390+ D 10 '41

Imports and domestic production statistics. Oil Paint & Drug Rep 141:36 My 25 '42

Tests of glued laminated wood beams impregnated with creosote. W. A. Oliver. il Am Soc T M Proc 41:1198-1211; Discussion. 1212-13 '41

Physiological effect

Dermatitis from creosote-treated wooden floors. L. Schwartz. Ind Med 11:387 Ag '42

CREPE

Crepe fabric processing. Textile Col 64:259-60 My '42

CRÊPE—*Continued*

Discharge printing on acetate rayon crepes. Textile Col 63:697-8 D '41

Discharge printing on acetate rayon crepes; hand block printing. Textile Col 64:216-17 My '42

Finishing rayon crepes. C. P. Atkinson. Textile Col 64:451-4 S '42

Preparing, dyeing and finishing of rayon crêpe fabrics. C. P. Atkinson. il Soc Dyers & Col J 58:89-93 My '42; Abstract. Textile Col 64:380-1 Ag '42

CREPE paper

Crepe paper men file answer to complaint by Federal trade commission charging them with conspiracy and price fixing. Paper Tr J 113:128 N 27 '41

Advertising

Most effective appeal for volume usage of a product; ingenious testing methods employed by Dennison. W. A. Sturgis. il Ptr Ink 200:20-2+ S 4 '42

CRESOL

Factors influencing the cresolase activity of tyrosinase; the effect of gelatin and *p*-cresol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 64:2344-8 O '42

Formation and rearrangement of the diphenylmethyl ether of *o*-cresol. H. A. Iddles and others. bibliog Am Chem Soc J 64:2154-7 S '42

CRESOL red

Acidimetric orthophosphoric acid assay. J. A. Calamari and R. Hubata. Ind & Eng Chem Anal ed 14:55-6 Ja 15 '42

CRESOLASE

Factors influencing the cresolase activity of tyrosinase; the effect of gelatin and *p*-cresol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 64:2344-8 O '42

CRESOLS

Petroleum cresols; abstract. W. Weinrich. Oil Paint & Drug Rep 142:65 S 21 '42

Preparation and properties of three isomeric *n*-hexyl cresols and their chlorinated derivatives. P. P. T. Sah and H. H. Anderson. bibliog Am Chem Soc J 63:3164-7 N '41

See also
Phenols

CRESYLIC acid

Imports of English cresylic. Oil Paint & Drug Rep 142:40 S 21 '42

CREUSOT, France

Air force targets; Schneider armament works. il map Engineer 174:336-8 O 23 '42

CRIBS

Metal crib retaining wall holds fill on mountainside. il Roads & Sts 84:50-1 D '41

Sand fill reduces weight of bridge pier. il diags Eng N 129:296-8 Ag 27 '42

CRICKETS

Stridulations of insects; effect of temperature. H. D. Matthews. Science 95:324-5 Mr 27 '42

CRIME and criminals

Criminology, a scientific study of the modern crime problem. E. Weir. 329p bibliog(p303-6) $3 Inst. for the scientific study of crime, 404 N. Hickory st, Joliet, Ill. '41

Criminology; an attempt at a synthetic interpretation with a cultural emphasis. D. R. Taft. 708p $4.50 Macmillan '42

Human wolves; seventeen years of war on crime. L. B. Reed. 419p $3 Brown-White-Lowell press, 115 E. 31st st, Kansas City, Mo. '41

Phenomena in crime: racketeers unlimited. V. Davis. 256p 10s 6d J. Long, London '41

Women in crime. F. Monahan. 306p $2.75 I. Washburn, New York '41

See also
Counterfeits and counterfeiters
Embezzlement
Forgery
Fraud
Homicide
Juvenile delinquency
Photography, Legal
Police
Prisons
Swindlers and swindling

Statistics

Statistics on crime and criminals. W. A. Lunden. 263p $5 Stevenson and Foster co, Pittsburgh '42

CRIMINAL law

Terminology

5000 criminal definitions, terms and phrases. C. W. Fricke. 89p bibliog(p87-9) pa $1.65 O. W. Smith, 106 S. Broadway, Los Angeles '41

CRINOIDEA, Fossil

Ampelocrinus, a new crinoid genus from the upper Mississippian. E. Kirk. Am J Sci 240:22-8, pl 1-2 Ja '42

CRIPPLED children. See Cripples, Schools for

CRIPPLES

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1235-75 Ag 21 '42

See also
Disabled—Rehabilitation

CRIPPLES, Schools for

School for crippled children, Kansas City, Mo.; view and plan. Arch Rec 90:72 D '41

CRIPPS, Sir Stafford, 1889-

Portrait. Business Week p14 F 28 '42

Portrait. Fortune 25:102 Ap '42

CRITICAL constants

Correlating vapor pressure and latent heat data; use of critical constants. D. F. Othmer. Ind & Eng Chem 34:1072-8 S '42

Critical states of two-component paraffin systems. F. D. Mayfield. bibliog Ind & Eng Chem 34:843-9 Jl '42

Determination of Beattie-Bridgeman constants from critical data. F. W. Brown. Ind & Eng Chem 33:1536-7 D '41

Determination of critical temperatures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. Ind & Eng Chem Anal ed 14:171-4 F 15 '42

Determination of recalescent points in steels. il Metal Prog 41:822-4 Je '42

Equation for the isotherms of pure substances at their critical temperatures. C. H. Meyers. bibliog J Research Nat Bur Stand 29:157-76 Ag '42

Equation of state for gases at high pressures involving only critical constants. S. H. Maron and D. Turnbull. bibliog Am Chem Soc J 64:2195-8 S '42

Indirect estimation of critical temperature and of molar refractivity. R. Livingston. J Phys Chem 46:341-3 Mr '42

Molecular refraction, critical temperature nomograph. D. S. Davis. Ind & Eng Chem 34:689 Je '42

P-V-T-x relations of the system propane-isopentane. W. E. Vaughan and F. C. Collins. bibliog Ind & Eng Chem 34:885-90 Jl '42

Prediction of critical constants. H. P. Meissner and E. M. Redding. bibliog il Ind & Eng Chem 34:521-6 My '42

Vapor pressures and critical constants of isobutene. J. A. Beattie, H. G. Ingersoll and W. H. Stockmayer. bibliog Am Chem Soc J 64:546-8 Mr '42

CRITICAL point

Dilatometric equipment from the Lunkenheimer co., Cincinnati. H. E. Montgomery and J. W. Bolton. il diag Metals & Alloys 16:52-5 Jl '42

CRITICAL solution temperature

Effect of salts on the mutual miscibility of normal butyl alcohol and water. L. A. Reber, W. M. McNabb and W. W. Lucasse. bibliog J Phys Chem 46:500-15 Ap '42

Region of critical solution of binary liquids, evidence for an anomalous first-order transition in the system triethyl amine-water. L. D. Roberts and J. E. Mayer. bibliog diags J Chem Phys 9:852-8 D '41

CRITICAL tools service

Mobilizing tools; problem WPB is attacking through CTS. Business Week p83-5 O 17 '42

CROATIA
Totalitarian economy in Croatia. Economist 141:472-3 O 18 '41

CROP insurance. See Insurance, Agricultural

CROPS
Agricultural department general crop report as of October 1. Comm & Fin Chr 156:1446-7 O 22 '42
Crop prospects best on record. Food Ind 14:82 S '42
Field crops. H. C. Rather. 545p $3.75 McGraw-Hill '42
High acreage yields boost crop totals. Barron's 22:6 S 21 '42
Record farm output possible. Barron's 22:6 Je 22 '42

See also
Alfalfa
Barley
Corn
Cotton
Droughts
Flax
Insurance, Agricultural
Jute
Rice
Rye
Tobacco
Wheat

Statistics

Crop report, by Federal reserve districts. Published in monthly numbers of Federal reserve bulletin
Planting intentions as of March 1, 1942. Comm & Fin Chr 155:1346 Ap 2 '42

CROPS and climate
Ecological crop geography. K. H. W. Klages. 615p $4.50 Macmillan '42

CROSBY, John
Trained by TVA; sharecropper to journeyman machinist. por Business Week p60-1 N 29 '41

CROSBY research foundation
Guiding inventors; some contributions to the war. Business Week p59-60 Ag 8 '42

CROSLEY corporation
Conversion of facilities. Comm & Fin Chr 155:1675-6 Ap 27 '42

CROSS connections. See Water distribution—Cross connections

CROSS-hauling. See Transportation in war

CROSSLEY, Moses Leverock, 1884-
Personalities in chemistry. A. D. McFadyen. por Chem Ind 51:510-11+ O '42

CROTALARIA grantiana
Alkaloid of crotalaria grantiana; grantianine. R. Adams, M. Carmack and E. F. Rogers. Am Chem Soc J 64:571-3 Mr '42

CROTONIC acid
Crotonic acid series; nitrogen derivatives of α-phenylcrotonic acid. M. A. Phillips. Chem Soc J p220-3 Ap '42

CROTOXIN
Electrophoresis of crotoxin. Choh Hao Li and H. Fraenkel-Conrat. il Am Chem Soc J 64:1586-8 Jl '42

CROTYL chloride
Allylic rearrangements; kinetics and mechanisms of the conversion of crotyl and methylvinylcarbinyl chlorides to acetates and ethyl ethers. J. D. Roberts, W. G. Young and S. Winstein. bibliog Am Chem Soc J 64:2157-64 S '42
Olefins and diolefins from allylic chlorides. A. L. Henne, H. Chanan and A. Turk. bibliog Am Chem Soc J 63:3474-6 D '41

CROTYL dichlorosalicylic acid
Rearrangement of O-crotyl-3,5-dichlorosalicylic acid and related compounds. D. S. Tarbell and J. W. Wilson. bibliog Am Chem Soc J 64:607-12 Mr '42

CROTYLOXYDICHLOROBENZOIC acid
Rearrangement of 4-crotyloxy-3,5-dichlorobenzoic acid. D. S. Tarbell and J. W. Wilson. bibliog Am Chem Soc J 64:1066-70 My '42

CROWLEY, Leo T.
U.S. takes over from the enemy. por Business Week p15-16 Je 6 '42

CROWN cork and seal company
Another look. Mag of Wall St 69:153 N 15 '41
Consolidated income account, 1941. Comm & Fin Chr 155:2365 Je 22 '42

CROWN tested rayon. See Rayon fabrics—Testing

CROWN Zellerbach corporation
Forestry program. Paper Tr J 114:60 F 19 '42

CRUCIBLE steel company of America
Consolidated income statement, 1938-1941. Comm & Fin Chr 155:1508 Ap 13 '42
Favored war stocks. J. J. Hipple. il Mag of Wall St 69:438-9 Ja 24 '42

CRUCIBLES
Efficient crucible melting; abstract. G. K. Eggleston. Metals & Alloys 16:714+ O '42

Manufacture

Crucibles and smelting pots; Armaco, ltd, Acton, Ont. il Can Chem & Process Ind 25:652 D '41

CRUM and Forster group
Wrote $36,322,000 in premiums; 1941 statement. Weekly Underw 146:530 Mr 7 '42

CRUSHED stone. See Stone, Crushed

CRUSHED stone association, National. See National crushed stone association

CRUSHING
Advances in milling methods, 1941; current fine grinding practice and recent developments in equipment. R. Hatch. Min Cong J 28:67-9 F '42
Fractionation of wheat starch. L. H. Lampitt, C. H. F. Fuller and N. Goldenberg. bibliog pls Soc Chem Ind J 60:1-6, 25-9, 47-50, 69-72, 99-111, 137-41, 231-41, 301-5 Ja-Je, S, D '41
Mills with 1000% circulating load; Lehigh's modernized plant at Alsen, N.Y. B. Nordberg. Rock Prod 45:35-7+ Ag '42
Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42
Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42
Use of the coercimeter in grinding tests. F. D. DeVaney and W. H. Coghill. In U S Bur Mines Bul 425:324-34 '41

See also
Ball mills
Coal, Pulverized—Preparation
Grinding mills
Ore treatment
Stone, Crushed
Tube mills

CRUSHING machinery
Advances in milling methods, 1941; reduction crushing. M. W. Bowen. diag Min Cong J 28:65-7 F '42
All crushing by impact; Melvin stone co., Melvin, Ohio. B. Nordberg. flow diag il Rock Prod 45:26-7+ Ag '42
Between wars portland cement industry expands, retracts, and is detracted. N. C. Rockwood. il plan map Rock Prod 45:46-9+ Ag '42
Carter & Wright swarf crushing machine. il Mech Handling 29:190 O '42
Cleanliness achieved in new crushing laboratory; Richards mineral dressing laboratory at M.I.T. R. Schuhmann, jr. il diags plan Eng & Min J 143:59-61 S '42
Crusher developments. il Rock Prod 45:90-1+ Ja '42
Crusher poses severe drive problems. H. W. Riley. Machine Design 14:116+ Ap '42
Crushing apparatus; patent specifications. diags Mech Handling 29:78 Ap '42
Design of the primary crushing plant; Morenci mine. L. R. MacLeod. il diag Min & Met 23:265-8 My '42
Dust control in the Morenci reduction works. A. C. Babcock. diag plan Min & Met 23:290-2 My '42
Floating gravel crushing plant; Richmond sand and gravel corp. has Diesel-powered auxiliary plant to crush and screen oversize from two ladder dredges. il Rock Prod 45:52-3 O '42
Flow production; modern methods at a Scottish quarry. il Elec R (Lond) 130:811-15 Je 26 '42

CRUSHING machinery—*Continued*

Getting along with obsolete machinery. J. B. Hess. diags Eng & Min J 143:67-8 S; 67-8 O '42

How cracked crusher head is salvaged by bronze-welding. il Concrete (mill sec) 50: 194 Je '42

Increased power and capacity emphasized in crushing and grinding units. il Concrete (mill sec) 50:150-1 Ap '42

Reducing grinding costs; new developments in pulverizers and crushers. il Rock Prod 45: 64-6+ Ja '42

Results up, cost down; preparation plant of the Weirton coal co. J. H. Edwards. flow sheet il Coal Age 47:62-5 Ag '42

Secondary crushing plant; Morenci mine. A. P. Svenningsen. il diags Min & Met 23: 270-1 My '42

Using two systems of grinding; production of aggregates for Pennsylvania Turnpike. il diag Rock Prod 45:56-8 My '42

See also

Ball mills
Grinding mills
Pebble mills
Pulverizers
Tube mills
Wood grinders

Repair

Hard-facing magic, it overcomes abrasion. Eng & Min J 143:66-7 Je '42

Safety measures

Crushing without danger; metal by-products plant. F. S. Bixby. il Safety Eng 83:22-3 F '42

CRYOGENIC laboratories

Equipment

Non-fouling hydrogen liquefier. E. R. Blanchard and H. W. Bittner. bibliog il diags R Sci Instr 13:394-405 S '42

CRYOGENIC research. See Temperature, Low

CRYOSCOPY. See Freezing points

CRYPTOSTEGIA grandiflora

Growing rubber in North America. H. L. Trumbull. bibliog il Ind & Eng Chem 34: 1328-35 N '42

CRYPTOXANTHIN

Analysis

Determination of carotene and cryptoxanthin in yellow corn. G. S. Fraps and A. R. Kemmerer. bibliog Ind & Eng Chem Anal ed 13:806-9 N 15 '41

CRYPTOXANTHOL

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

CRYSTAL oscillators. See Oscillators, Crystal

CRYSTAL violet

Isomers of crystal violet ion; their absorption and re-emission of light. G. N. Lewis, T. T. Magel and D. Lipkin. bibliog Am Chem Soc J 64:1774-82 Ag '42

CRYSTALLIZATION

Active carbon in crystallization processes. M. Faye and R. A. Hagberg. il Chem Ind 50:358-9 Mr '42

Apparatus for crystallization and filtration at low temperatures. F. W. Quackenbush and H. Steenbock. diags Ind & Eng Chem Anal ed 14:736-7 S 15 '42

Crystallization of metals from aqueous solutions. B. P. Planner. diags Iron Age 149: 66-9 Je 11 '42

Direction of flow of mineralizing solutions. W. H. Newhouse. il diags Econ Geol 36: 612-29 S '41; Discussion. M. C. Bandy. 37: 330-3 Je '42

Electric furnace study of the $MgO-SiO_2$ system. R. R. Ralston and G. T. Faust. bibliog il diag Am Cer Soc J 25:294-310 Jl 1 '42

Enclosed laboratory apparatus for effecting repeated crystallizations from solvents. J. D. Piper, N. A. Kerstein and A. G. Fleiger. bibliog diags Ind & Eng Chem Anal ed 14: 738-9 S 15 '42

Ice ghosts; difference between solids and liquids is not sharp. Sci Am 166:246-7 My '42

Low crystallization rate of tertiary phosphates; abstract. W. Rathje. Chem & Met Eng 49:154+ Ja '42

Low-purity beet sugar factory materials; rates of crystallization in crystallizer fillmass. R. A. McGinnis, S. Moore, jr. and P. W. Alston. il Ind & Eng Chem 34:171-3 F '42

Mixed unsaturated glycerides of liquid fats; low-temperature crystallisation of olive oil. T. P. Hilditch and L. Maddison. Soc Chem Ind J 60:258-62 O '41

Rate of crystal growth in drawn tungsten wires as a function of temperature. C. S. Robinson, jr. il J Ap Phys 13:647-51 O '42

Statistical treatment of crystallization phenomena in high polymers. T. Alfrey and H. Mark. bibliog diag J Phys Chem 46:112-18 Ja '42

System $CaO-FeO-Al_2O_3-SiO_2$; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

System $CaSiO_3$—diopside—anorthite. E. F. Osborn. bibliog diags Am J Sci 240:751-88 N '42

Theoretical and industrial aspects of crystallization. H. B. Caldwell. bibliog il diags Chem & Met Eng 49:116-19 My '42; Discussion. 49:134+ Jl '42

See also

Crystallography
Crystals
Solutions, Solid

CRYSTALLIZATION, Water of. See Water of hydration

CRYSTALLIZERS

Theoretical and industrial aspects of crystallization. H. B. Caldwell. bibliog il diags Chem & Met Eng 49:116-19 My '42

CRYSTALLOGRAPHIC society

Meeting, Cambridge, Mass. Nov. 17. Science 95:20-1 Ja 2 '42

CRYSTALLOGRAPHY

Character tables for two space groups. C. Herring. diags Franklin Inst J 233:525-43 Je '42

Crystal-chemical studies of the alums; coefficients of linear thermal expansion. H. P. Klug and L. Alexander. bibliog Am Chem Soc J 64:1819-20 Ag '42

Crystal structure of calcium cyanamide. M. A. Bredig. Am Chem Soc J 64:1730-1 Jl '42

Crystal structure of β-glycylglycine. E. W. Hughes and W. J. Moore. Am Chem Soc J 64:2236-7 S '42

Crystal structure of pond ice observed with polaroid spectacles. W. S. Von Arx. J Chem Educ 19:478-9 O '42

Crystallographic structure of alkaline-earth oxide mixtures; investigations on oxide cathodes with the help of Röntgen rays and electron beams; abstract. H. Huber and S. Wagener. Wireless Eng 19:270-1 Je '42

Crystals; secrets of the inorganic. J. Killian. 263p 8s 6d J. Gifford, London '41

Crystals; structure demonstrated by steel balls. il Sci Am 166:24 Ja '42

Determination of extinction angles in monoclinic pyroxenes and amphiboles. F. J. Turner. bibliog Am J Sci 240:571-83 Ag '42

Electric furnace boroaluminate. H. N. Baumann, jr. and C. H. Moore, jr. bibliog il Am Cer Soc J 25:391-4 O 1 '42

Indexing powder diffraction patterns of isomorphous substances. L. K. Frevel. J Ap Phys 13:109-12 F '42

Internal structure of synthetic fibers and its influence on their physical properties. E. H. Freund and H. Mark. bibliog diags Rayon 23:515-17, 605-6 S-O '42

Phase transitions; the heat capacity of nickel nitrate hexammoniate from 54 to 300°K; the transition at 243°K. E. A. Long and F. C. Toettcher. bibliog Am Chem Soc J 64:629-32 Mr '42

Scientific career of William J. Pope. W. H. Mills. Chem Soc J p700-15 O '41

CRYSTALLOGRAPHY—*Continued*

Stoichiometric calculations on the basis of crystal lattices. A. Silverman. J Chem Educ 19:16 Ja '42

System CaO-FeO-Al_2O_3-SiO_2; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

Tabulated diffraction data for cubic isomorphs. L. K. Frevel. bibliog Ind & Eng Chem Anal ed 14:687-93 S 15 '42

Tridymite problem; abstract. M. J. Buerger. Science 95:21 Ja 2 '42

Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. il diags Machine Design 14:70-4+ S '42

See also

Crystallization

Mineralogy

Solutions, Solid

also names of minerals, e.g. Feldspar; Quartz

Study and teaching

Lantern slides of actual crystals. H. H. Fillinger. il J Chem Educ 19:369-71 Ag '42

X ray studies

Catalytic activity; X-ray patterns of metal catalysts. Chem Age (Lond) 47:37 Jl 11 '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; results of X-ray studies of the raw material and of used silica brick. A. H. Jay. Iron & Steel Inst J 144:247-50, pl 24-5 no 2 '41

Crystal structure of cementite, Fe_3C. H. Lipson and N. J. Petch. bibliog diags Iron & Steel Inst J 142:95-103; Discussion. 104-6 no 2 '40; Correction. 144:309 no 2 '41

Crystal structure of diphenylselenium dichloride. J. D. McCullough and G. Hamburger. Am Chem Soc J 64:508-13 Mr '42

Crystal structure of hydrazinium difluoride. M. L. Kronberg and D. Harker. il diags J Chem Phys 10:309-17 Je '42

Crystal structure of *trans-trans*-methyl fumarate and *trans-trans*-methyl muconate. I. E. Knaggs and K. Lonsdale. Chem Soc J p417-18 Jl '42

Crystalline structure of Pt_3O_4. E. E. Galloni and A. E. Roffo, jr. bibliog il diags J Chem Phys 9:875-7 D '41

Effects of heat, solvents and hydrogen-bonding agents on the crystallinity of cellulose esters. W. O. Baker, C. S. Fuller and N. R. Pape. bibliog Am Chem Soc J 64:776-82, pl 1-2 Ap '42

Extra reflections to be seen on X-ray photographs of single crystals. K. Lonsdale. il Engineering 153:254-5 Mr 27 '42

Ghosts in X-rays show movement of atoms; abstract. R. Smoluchowski. Steel 109:70 D 15 '41

Physics in 1941. T. H. Osgood. il J Ap Phys 13:3-6 Ja '42

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

Sir W H. Bragg. Engineering 153:234-6 Mr 20 '42

Structures of complex fluorides; ammonium hexafluosilicate-ammonium fluoride, $(NH_4)_2SiF_6 \cdot NH_4F$. J. L. Hoard and M. B. Williams. bibliog Am Chem Soc J 64:633-7 Mr '42

X-ray crystallography; an introduction to the investigation of crystals by their diffraction of monochromatic X-radiation. M. J. Buerger. 531p $6.50 Wiley '42

X-ray data on several phosphate minerals. D. McConnell. bibliog Am J Sci 240:649-57 S '42

X-ray interference in partially ordered layer lattices. S. Hendricks and E. Teller. J Chem Phys 10:147-67 Mr '42

X-ray investigation of the structure of lead chromate. S. B. Brody. bibliog J Chem Phys 10:650-2 O '42

X-ray microscope. Science 95:sup10 Je 5 '42

CRYSTALS

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

Can silicon take a six-fold coordination in glass? K. Sun and A. Silverman. bibliog Am Cer Soc J 25:101-3 F 15 '42

Change in the electric resistance of a single crystal of magnetite by magnetic field at low temperatures. H. Masumoto and Y. Shirakawa. Phys R 60:835 D 1 '41

Crystal structure in steel and the effect of hot and cold work. A. F. Macconochie. il diags Steel 110:66-8+ F 16 '42

Crystalline aliphatic esters of vitamin A. J. G. Baxter and C. D. Robeson. pls Am Chem Soc J 64:2407-10 O '42

Crystalline modifications of D-manno-D-galaheptose, and the preparation of some of its derivatives. E. M. Montgomery and C. S. Hudson. bibliog Am Chem Soc J 64:247-54 F '42

Crystalline solids and liquids; abstract. J. G. Kirkwood. Science 95:sup10 Mr 13 '42

Crystalline vitamin A. J. G. Baxter and C. D. Robeson. pls Am Chem Soc J 64:2411-16 O '42

Darkening of materials by light. F. Seitz. diag J Ap Phys 13:639-43 O '42

Density of sodium chloride; the atomic weight of fluorine by combination of crystal density and X-ray data. H. J. Johnston and D. A. Hutchison. Phys R 62:32-6 Jl 1 '42

Distribution of lattice vibrations of the KCl crystal. M. Iona, jr. bibliog Phys R 60:822-6 D 1 '41

Effect of polarized light on the absorption spectrum of the neodymium ion in crystals. E. L. Kinsey and R. W. Krueger. il Phys R 62:82 Jl 1 '42

Elasticity and creep of Pb single crystals. I. H. Swift and E. P. T. Tyndall. Phys R 61:359-64 Mr 1 '42

Electric breakdown of ionic crystals. H. Fröhlich. bibliog Phys R 61:200-1 F 1 '42

Electron diffraction studies on thin films; powder patterns containing anomalies produced by secondary scattering. L. H. Germer. bibliog il Phys R 61:309-12 Mr 1 '42

Electron reflections in MgO crystals with the electron microscope. R. D. Heidenreich. il Phys R 62:291-2 S 1 '42

Energy of immersion of crystalline powders in water and organic liquids. G. E. Boyd and W. D. Harkins. bibliog diags Am Chem Soc J 64:1190-4 My '42

Energy relations of the surface of solids; surface energy of the diamond. W. D. Harkins. diags J Chem Phys 10:268-72 My '42

Equilibrium diagram of the system carbon tetrachloride-*t*-butyl chloride as revealed by dielectric constant measurements. W. P. Conner and C. P. Smyth. Am Chem Soc J 63:3424-8 D '41

Equilibrium studies in the system FeO—Al_2O_3—SiO_2. R. B. Snow and W. J. McCaughey. bibliog il diags Am Cer Soc J 25:151-60 Mr 15 '42

Field emission from tungsten and thoriated tungsten single crystals. J. H. Daniel. bibliog il diag Phys R 61:657-67 My 1 '42

Fluorescence of manganese in glasses and crystals. S. H. Linwood and W. A. Weyl. bibliog Opt Soc Am J 32:443-53 Ag '42

Frequency spectrum of crystalline solids. E. W. Montroll. J Chem Phys 10:218-29 Ap '42

Heat treatment of refractory materials. N. W. Taylor and S. Zerfoss. bibliog il Blast F & Steel Pl 30:536-41 My '42

CRYSTALS—*Continued*

High intensity X-ray monochromator, rock salt crystals. P. Kirkpatrick. bibliog diag R Sci Instr 12:552-4 N '41

Hydration of β-lactoglobulin crystals. T. L. McMeekin and R. C. Warner. bibliog Am Chem Soc J 64:2393-8 O '42

Induced color in crystals by deuteron bombardment. J. M. Cork. Phys R 62:80-1 Jl 1 '42

Inelastic scattering of neutrons by crystal lattices. R. J. Seeger and E. Teller. Phys R 62:37-40 Jl 1 '42

Influence of crystal structure on the cold rolling and annealing of copper strip. M. Cook and T. L. Richards. Metal Prog 41: 53+ Ja '42

Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41

Isolation of an ultrasonic crystal radiator from conducting liquids. J. W. McGrath and A. R. Kurtz. diag R Sci Instr 13:128-9 Mr '42

Natural rotatory power of nickel sulphate at low temperature. P. Rudnick and L. R. Ingersoll. Opt Soc Am J 32:622-6 O '42

Observation of crystalline reflections in electron microscope images. J. Hillier and R. F. Baker. il Phys R 61:722-3 Je 1 '42

Order in the alloy Cu_3Au. L. H. Germer, F. E. Haworth and J. J. Lander. il Phys R 61:93 Ja 1 '42

Photomicroscopy of salt in petroleum. L. F. Christianson and J. W. Horne. bibliog il U S Bur Mines Tech Pa 638:1-56; pa 25c Supt. of doc. '42; Abstract. Nat Pet N 34 pt 2:R333-6 S 30 '42

Piezo quartz. A. W. G. Wilson. il Can Chem & Process Ind 26:10-14+ Ja '42

Piezometer for transient pressures. A. W. Lawson and P. H. Miller, jr. R Sci Instr 13:297-8 Jl '42

Polarization of luminescence in crystals. B. V. Thosar. bibliog J Chem Phys 10:246-7 Ap '42

Probable structure of a crystalline substance derived from starches oxidized with periodate. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:585-8 Mr '42

Quartz-crystal accelerometer. R. O. Fehr. il diag Gen Elec R 45:269-72 My '42

Radio progress during 1941; piezoelectricity. bibliog Inst Radio Eng Proc 30:69-70 F '42

Raw quartz crystals. C. F. Baldwin. il Gen Elec R 45:415 Jl '42

Resistivity of antimony-tin single crystals at low temperatures. C. T. Lane and W. A. Dodd. Phys R 61:183-6 F 1 '42

Single crystals, metallurgical paradox. F. T. Sisco. Min & Met 23:514 O '42

Studies of lead oxides; the effect of grinding on the X-ray diffraction patterns of mixtures containing lead oxides. G. L. Clark and S. F. Kern. Am Chem Soc J 64: 1637-41 Jl '42

Temperature diffuse diffraction maxima and crystal perfection. D. S. Teague. Phys R 62:179 Ag 1 '42

Temperature diffuse scattering of X-rays by potassium chloride and potassium bromide crystals. J. H. Hall. bibliog Phys R 61: 158-67 F 1 '42

Theory of the elasticity of polycrystals with viscous grain boundaries. C. Zener. bibliog Phys R 60:906-8 D 15 '41

Thermal expansion of single and optically mosaic zinc crystals. W. P. Staker. bibliog diags Phys R 61:653-7 My 1 '42

Thermal scattering of X-rays in crystals. J. Weigle and C. S. Smith. diags Phys R 61: 23-34 Ja 1 '42

Ultraviolet rotatory power of crystalline nickel sulfate at the temperature of liquid oxygen. W. C. Knopf, jr. and W. C. Gilmore, jr. bibliog diag Opt Soc Am J 32: 619-21 O '42

Variation with temperature of the principal elastic moduli of NaCl near the melting point. L. Hunter and S. Siegel. bibliog il diag Phys R 61:84-90 Ja 1 '42

Vibration of piezoelectric plates. A. W. Lawson. Phys R 62:71-6 Jl 1 '42

X-ray diffraction studies on heavy-metal iron-cyanides. H. B. Weiser, W. O. Milligan and J. B. Bates. bibliog diags J Phys Chem 46:99-111 Ja '42

See also

Oscillators, Crystal
Piezoelectricity
Quartz
Radio frequency—Crystal control

CUBA

Living and office operating costs. For Comm W 6:6-7+ Mr 7 '42

See also

Finance—Cuba
Labor laws and legislation—Cuba
Oil industries—Cuba
Paint industry and trade—Cuba
Paleontology—Cuba
Public utilities—Cuba
Sugar industry and trade—Cuba
Wages—Cuba

Control of exchange and movement of foreign currencies, Office of

Cuban restrictions on foreign currency movements. For Comm W 8:15-16 S 5 '42

Economic conditions

Cuba's business trends; economy as war comes to the Caribbean. il For Comm W 7:6-7, 35-6 My 16 '42

News by countries. Published in Foreign commerce weekly

Economic policy

Wartime commodity controls, etc. For Comm W 8:14-16 Ag 22 '42

Foreign relations

United States

Good neighbor policy succeeds in Cuba. L. C. Mann. Pub Util 29:737-44 Je 4 '42

CUBAN-AMERICAN sugar company

Common stocks in strategic position. Mag of Wall St 69:502 F 7 '42

Earnings, years ended Sept. 30, 1940 and 1941. Comm & Fin Chr 155:87 Ja 6 '42

CUBE root

Machine method for the extraction of cube root. O. E. Lancaster. Am Statis Assn J 37:112-15 Mr '42

CUBES, Calculation of

Accumulating cubes with punch cards. M. M. Sandomire. Am Statis Assn J 36:507-14 D '41

CUBISM

Great flight of culture; twelve artists in U.S. exile; portfolio. il Fortune 24:102-15 D '41

CUDAHY packing company

Annual report, year ended Oct. 31, 1941. Comm & Fin Chr 154:1727 D 30 '41

CULLEN, William, 1867-

Portrait. Chem & Ind 61:front Jl 11 '42

CULLET. See Glass making materials

CULTIVATORS

Electrically driven cultivators. il Electrician 129:356 O 2 '42

CULTURAL resources

Protection of cultural resources against the hazards of war; a preliminary handbook. 46p bibliog(p39-46) Nat. resources planning board, Washington, D.C; pa 10c Supt. of doc. '42

CULTURE

See also

Civilization

CULTURE mediums

New culture medium for the growth of chaetomium globosum. W. G. Chace and G. S. Urlaub. bibliog il Am Dyestuff Rep 31:331-3 Jl 6 '42

Rearing fabric pests. F. W. Fletcher and E. E. Kenaga. bibliog Soap & San Chem 18:92-3+ S '42

CULTURE mediums—*Continued*
Sporulation stock medium for yeasts and other fungi. E. M. Mrak, H. J. Phaff and H. C. Douglas. Science 96:432 N 6 '42
Sterile culture of paramecium multimicronucleata. W. H. Johnson and E. G. S. Baker. bibliog Science 95:333-4 Mr 27 '42
Use of complete fertilizers in cultivation of microorganisms. V. L. Loosanoff and J. B. Engle. Science 95:487-8 My 8 '42
See also
Bacteriology—Culture mediums

CULVER, Bernard Mott, 1873-
Sketch. por Nat Underw 46:4+ Ja 1 '42

CULVERTS
Armco designs wood culvert to conserve critical material il Eng N 128:540 Ap 9 '42; Roads & Sts 85:88 Ap '42
Creosoted-timber culverts on the Alaska highway. il Roads & Bridges 80:44+ O '42
Culverts of wood, to replace metal. il Sci Am 167:33-4 Jl '42
Drainage problems on new Lake Mead road. G. D. Whittle. il map Civil Eng 12:196-8 Ap '42
Emergency wood culvert for drainage. il Engineering 154:66 Jl 24 '42
Macpherson patented pressure creosoted wood stave pipe culvert. il Pub Works 73:80-1 O '42
Rubble masonry for road culverts and retaining walls. L. M. Winsor. il Civil Eng 12:36-7 Ja '42
Save steel by using big concrete pipe. il Rock Prod 45:64-5 Je '42
Steel culvert substitutes; specifications, for non-reinforced concrete pipe. Eng N 128: 559 Ap 9 '42
Strong wood construction replaces steel pipe. il Product Eng 13:436 Ag '42
Structural design of flexible pipe culverts. M. G. Spangler. il diags Iowa Eng Exp Sta (Ames) Bul 153:1-84 bibliog(p67-8) '41
Substitutes for critical materials for highways, bridges and culverts. Eng N 128: 824-5 My 14 '42

CULVERTS, Concrete
Concrete pipe speeds bridge job. il Eng N 129:653 N 5 '42
Design of box culverts. C. R. Burky. diags Am Concrete Inst J 14:33-52 S '42
Double tracking on U.S. route 12 to serve war industry; with cost data. il diags Roads & Sts 85:37-9 O '42
Wisconsin's concrete highway culverts eliminate steel reinforcement. diags Concrete 50:8 O '42

CUMBERLAND river

Power utilization

More dams likely on Cumberland river as engineers prepare fund request. map Eng N 128:237 F 12 '42

CUMMINS engine
Late developments in automotive Diesels. il Diesel Power 20:664, 666 Ag '42

CUNARD steam ship company
British shipping prospects; statement to stockholders. P. E. Bates. Economist 142: 587 Ap 25 '42

CUNNINGHAM, Frank S. d. 1941
Sketch. por Ptr Ink 197:17-18 D 5 '41

CUPOLA furnaces
Cupola practice with briquettes. W. A. Hambley and K. Geist. il Iron Age 150:39-42 Ag 27; 60-3 S 3 '42
Develops cupola mixing spout. W. A. O'Brien. diags Foundry 70:104+ S '42
Improving cupola performance. D. J. Reese. il Foundry 70:62-3+ Ja; 68-9+ F '42
Increasing foundry production with existing equipment. D. J. Reese. il Foundry 70:106-7, 187-91 My '42
Melting quality iron in the cupola. H. S. Austin. il Foundry 69:58-9+ N; 58-9+ D '41
Scrap and combustion in cupolas are reviewed; abstracts of A.F.A. convention papers. Foundry 70:104 Je '42
Small-cupola practice; abstract. W. Pola. Metals & Alloys 14:900-1 D '41

Air supply

Control of cupola air improves filter press castings. W. H. O'Connell. il diags Comp Air M 47:6641-3 Ja '42
Cupola blast control; abstract. S. A. Herres and C. H. Lorig. Metals & Alloys 16:732+ O '42
Effect of moisture in blast air. R. J. Cowan. il diag Iron Age 150:43-50 N 12 '42

Lining

Cupola refractories are important materials; abstracts of A.F.A. convention papers. Foundry 70:101+ Je '42
Lining the cupola with firestone. S. G. Koon. Foundry 70:128-31 F '42

CUPOLAS
Ornamental semi-hexagonal tower; New York City's recreational building, East River park. il diags plans Sheet Metal Worker 32:25-7 D '41

CUPRAMMONIUM solution
Comparison of the capillary flow and falling sphere methods of determining the viscosity of cellulose in cuprammonium solutions. R. S. Hatch, R. N. Hammond and J. J. McNair. Paper Ind 24:436+ Jl '42
Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41
Importance of cuprammonium viscosity testing in the preparation of rag half-stock. H. U. Kiely and E. A. Bieniek. Paper Tr J 115:29-31 Ag 20 '42
Improvement in the method for dissolving cellulose in cuprammonium solution for fluidity measurements. R. T. Mease. diag J Research Nat Bur Stand 27:551-3 D '41

CUPRITE

Analysis

Determination of oxide copper. R. S. Young and D. G. M. Graham. Ind & Eng Chem Anal ed 14:787-8 O 15 '42

CUPS, Paper. See Paper cups

CURARE
Curare will be made available in medicine; studies by O. Wintersteiner and J. D. Dutcher. F. Thone. Science 95:sup10 My 1 '42

CURB exchange. See New York curb exchange

CURBS
Casting concrete curbing. B. Nordberg. il diags Rock Prod 45:120, 122+ Ja '42
Divided highways in California. F. Grumm. il diags Eng N 128:176-9 Ja 29 '42
Progress report on reflectivity of white portland cement concretes. C. W. Muhlenbruch. diags Concrete 50:8-10+ Ja '42

CURIE, Mme Marie (Sklodowska) 1867-1934
Radium treasure and the Curies. I. Eberle. 105p $2 Crowell '42

CURME, George Oliver, 1888-
Portrait. Fortune 25:64 Ap '42

CURRENT list of medical literature
Current list of medical literature; an explanation. C. F. Mayer. Science 95:43-5 Ja 9 '42

CURTAINS
Black-out cloths. il Textile World 92:56-7 Ja '42
Blackout draperies and curtains. H. E. Millson. Textile Col 64:281-3 Je '42
Dyeing lace curtain fabric in fast colors. Textile Col 64:255-7 My '42

CURTIS, Frank W.
Portrait. Sci Am 167:206 N '42

CURTIS, Heber D. 1872-1942
Sketch. K. Burns. Science 95:161-2 F 13 '42

CURTISS-WRIGHT corporation
Annual report. Comm & Fin Chr 155:1752 My 4 '42
Subcontracting plays major role in Curtiss-Wright production. J. F. Reinhart. il Aero Digest 41:98-100, 103 O '42

CURUA nuts
Brazil's curua nuts. For Comm W 8:26 S 5 '42

CURVE plotting
Determining operating points of centrifugal pumps working on pipe lines. A. J. Stepanoff. Oil & Gas J 40:45-6, 48-9+ D 4 '41
Precision autographic data-plotting method. F. S. Eastman. il diag Instruments 15: 116, 118, 120-1 Ap '42
Profile curves for open-channel flow. D. F. Gunder. diags Am Soc C E Proc 68:535-42 Ap '42; Discussion. 68:1035-6, 1244-6, 1413-23 Je, S-O '42
Statistical analysis in hydrology. L. R. Beard. Am Soc C E Proc 68:1077-88 S '42; Discussion. 68:1458-64 O '42

CURVES
Method of finding the equations of curves. J. C. Barnes. Engineering 152:334 O 24 '41; Discussion. 152:434 N 28 '41
Method of finding the equations of curves. J. C. Williamson. Engineering 153:15 Ja 2 '42

CURVES in engineering
Changing grades for vertical curves simplified by formulas. E. J. Smith. Eng N 129:42 Jl 2 '42
Elevations on vertical curves. E. A. Hindman. Eng N 126:628 Ap 23 '42
Radius of vertical curves in belt conveyor design. diags Mech Handling 28:260-1 D '41
Transforming vertical curves. S. Gisser. Eng N 127:747 N 20 '41; Discussion. C. Macklin. 128:81 Ja 15 '42
Vertical curves solved by slide-rule. C. M. Bennett. Eng N 128:355-6 F 26 '42
See also
Railroads—Curves and turnouts
Roads—Curves

CUSHIONS
Bedspread and cushion cover fabrics; practical considerations in dyeing and finishing mixed viscose and acetate rayon textures. Textile Col 64:179-81 Ap '42

CUSTOMER relations
Droves of customers pitch in to help Lee save auto agency; Don Lee Cadillac, San Francisco. Sales Management 50:45-7 Je 15 '42
Human relations in business. Published in monthly numbers of American business
Inactive customers. Inland Ptr 108:28 N '41
Promotion to hold customer interest; Hines lumber company. F. C. Minaker. il Am Business 12:40, 42 Mr '42
Today's customer relations problem. Am Business 11:17 N '41
See also
Banks and banking—Customer relations
Christmas letters
Complaints
Dealer relations
Electric utilities—Customer relations
Gas companies—Customer relations

CUSTOMERS, New
Constant combing of field essential to secure new customers. Inland Ptr 109:25-6 Jl '42
Don't save advertising; make it work! new customers won for packaged goods by offering them something extra to try the product. D. Jones. Sales Management 50: 16-18 Je 1 '42

CUSTOMS administration
Accords free entry to allies' soldiers articles. Comm & Fin Chr 156:273 Jl 23 '42

CUT glass
Commercial art glass; original modern Czecho-Slovakian art creations. L. Moser. il Glass Ind 23:101-3 Mr '42

CUTCH. See Catechu

CUTLER-HAMMER, incorporated
Everything's under control; Cutler-Hammer's output of electrical equipment is up 500 per cent. il Fortune 26:96-8+ Ag '42

CUTTING
Cemented carbide tools; German practice. Automobile Eng 32:91-4 Mr '42
Coated abrasives, a tool. E. B. Gallaher. Metal Finishing 40:51-4+ Ja '42
How to use abrasive cutting. H. G. Robinson. il Am Mach 86:275-7 Ap 2 '42
Why use abrasive cutting? H. G. Robinson. il Am Mach 86:206-8 Mr 19 '42
See also
Coal cutters
Electric cables—Cutting
Gear cutting
Metal cutting
Milling
Oxyacetylene cutting
Oxygen cutting
Steel cutting
Thread cutting

CUTTING lubricants. See Lubrication and lubricants (cutting and grinding)

CUTTING machines
DeWalt high-speed and heavy-duty metal-cutting machines. il Mach 48:167-8 D '41
Gasket cutter for maintenance shop. Elec W 117:2086 Je 13 '42
Guillotine cutters; hazards and precautions. Nat Safety N 45:54, 56 F '42
New applications of contour machining speed production. H. J. Chamberland. il Aero Digest 41:168+ O '42
See also
Broaching machines
Cutting tools
Gear cutting machines
Metal cutting
Milling cutters
Oxyacetylene cutting
Reamers
Saws
Screw machines
Shears (machines)

CUTTING of metals. See Metal cutting

CUTTING-OFF machines
Abrasive cut-off wheels; where and how to use them. F. A. Upper. il Iron Age 150: 48-51 S 10; 68-73 S 17 '42
Ballinger abrasive wheel cutting-off machine. il Automobile Eng 32:361-2 S '42
Cutting-off by abrasive wheels. Engineering 154:26 Jl 10 '42
Pines semi-automatic cut-off machines. il Mach 48:214-15 Ap '42
See also
Saws, Metal working

CUTTING oils. See Lubrication and lubricants (cutting and grinding)

CUTTING tools
Brazing salvages cutters. W. H. Handrock. Steel 111:73 Ag 24 '42
Broken, multi-edge tools reclaimed by welding; Suttonizing process. T. Sutton. il Iron Age 150:68-70 O 22 '42
Built-up tools save high-speed steel. P. L. Budwitz. diags Am Mach 86:384-5 Ap 30 '42
Control of tool shapes. J. C. Hinton. il diags Iron Age 148:67-72 D 18 '41
Converting standard tools to special shapes. K. R. Beardslee. diags Metals & Alloys 15: 124 Ja '42
Cutting tools for metal machining. M. Kurrein and F. C. Lea. 219p bibliog(p212-14) $6 Lippincott '41
Cutting tools with high-speed steel tips. Engineering 154:106 Ag 7 '42
Develops new alloy for metal cutting tools; Stellite cobalt-chromium-tungsten alloy. Steel 111:105 Jl 13 '42
Gage and cutter conservation in Canada. il Am Mach 86:233-44 Mr 19 '42
Getting the greatest service out of cutting tools; abstract. A. H. d'Arcambal. Iron Age 149:70 Ap 2 '42
Getting the most out of cutting tools; abstract. R. T. Wise. Metals & Alloys 15:482+ Mr '42
Grinding and setting metal-turning cutters; Warner & Swasey uses moving picture for instruction. il diags Aero Digest 40:192, 195-6 My '42
Heat treating tips. G. B. Berlien. Iron Age 149:68-9 Mr 12 '42
How to select efficient cutting tools; Kut Kost tools; with chart. L. J. St Clair. Iron Age 150:60-7 O 1 '42
Kut-Kost, a new metal-cutting alloy. Mach 49:159 O '42
More cuts by correct sharpening. R. T. Wise. il diags Am Mach 85:1314-16 D 24 '41

CUTTING tools—*Continued*

More cuts from cutting tools. R. T. Wise. il diags Am Mach 85:1253-5 D 10 '41

Mutual aid for small tools. Engineer 174: 285-6 O 2 '42

New conception in tool grinding; Bura-Way machine and method. il diags Iron Age 149:39-41 My 21 '42

New stellite alloy for machining steel. il Mach 48:164 Ag '42

Performance of cutting tools; abstract. L. J. St Clair. Metals & Alloys 15:308 F '42

Salvaging worn tools; International harvester co. H. E. Fleming. il Steel 110:58-9+ F 23 '42

Scheduling of cutting tool output ordered. Am Mach 86:1042c S 17 '42

Tool and holder for form-turning copper band on shells. D. A. Baker. diags Mach 48: 137 My '42

Tool conservation and materials substitution; war production conference, American society of tool engineers. Iron Age 150:64-5 O 22 '42

Tool conservation control plan; Henry Disston & sons. Business Week p44 Ja 3 '42

Tool conservation in the navy. F. J. Oliver. il Iron Age 150:56-8 Ag 27 '42

Tool hardening; practice, not theory. R. C. Stewart. il diags Metal Prog 42:378-83+ S '42

Tools for machining aluminum. Metals & Alloys 15:636 Ap '42

Trouble shooting in tool hardening. R. C. Stewart. il diags Iron Age 149:25-32 Ja 15 '42

Warner & Swasey motion picture on the grinding and setting of cutting tools. il Mach 48:156-7 My '42

What every operator ought to know about cutters; illustrations from Warner and Swasey's sound film. Factory Management 100:94 My '42

Wide tool for machining babbitt. A. Havens. il diag Am Mach 86:113 F 19 '42

Wright's new precision tool grinding process. il Aero Digest 41:134+ O '42; Aeronautical Eng R 1:103 O '42

See also

Machine tools	Saws
Milling cutters	Tool steel

Manufacture

Casting high speed steel; sand and centrifugal casting methods, using permanent molds, employed at Gorham tool co. W. F. Sherman. il plan Iron Age 150:40-4 S 24 '42

Cementing high speed steel tips; Cinch steel cement; illustrations. Iron Age 149:48-51 Je 25 '42

Cutting tools tipped with high speed steel; General tool & die corp. il Iron Age 149: 53-5 Mr 26 '42

Fine tool finish increases tool life 2000 per cent. C. J. Wiberg and W. K. Heath. il diags Iron Age 150:33-7 Jl 23 '42; Abstract. Metals & Alloys 16:752+ O '42

High speed steel tips cemented to low alloy shanks; Cinch steel cement. G. Shuler. il Iron Age 149:35-8 Ap 16 '42

Tipped high speed steel tools give improved performance. L. J. St Clair. diags Iron Age 150:52-5 Ag 6 '42; Same. Engineer 174:417-19 N 20 '42

Standards

Standardization; success with new lathe tools leads to work on cutting bits for other machine tools. Business Week p72 O 24 '42

CUTTING tools, Carbide

Carbide-tipped face mills; reference book sheets. F. W. Lucht. diags Am Mach 86: 81, 83, 131, 133 F 5-19 '42

Carbide tipped planer tools. A. Havens. Am Mach 86:349-50 Ap 16 '42

Carbide tooling usually involves decreased forces on work and tools. P. H. Miller. Steel 110:85+ F 23 '42

Carbide tools applied to interrupted cuts. H. E. Lewis. diags Am Mach 86:222 Mr 19 '42

Carbide tools for shell work. G. G. Thompson. il diags Iron Age 149:41-4 My 14 '42

Carbides turn 550-Brinell steel. il Iron Age 148:59 D 11 '41

Carboloy introduces small caliber gun drills. il Iron Age 150:64 S 17 '42

Carboloy shear type tools designed for interrupted cuts. il Mach 49:199 S '42

Cemented carbide gun drills. W. R. Meyer and W. A. Kimsey. il diags Iron Age 150: 53-7 Ag 13 '42

Cemented-carbide tipped tools increase efficiency in railroad maintenance shops. diags Mach 49:186-8 O '42

Cemented carbide tools; German practice. Automobile Eng 32:91-4 Mr '42

Chip breaker for turret lathe tools. E. T. Larson. diags Am Mach 85:1142 N 12 '41

Clamped-on tool tips eliminate strains. diags Steel 111:86 Ag 24 '42

Dry vs. wet grinding of carbide tools. diags Iron Age 150:45-6 O 8 '42

Get the most from carbide tools. R. B. Weeks. il diags Am Mach 86:158-61 Mr 5 '42

High-speed milling with carbides. E. G. Moffat. il diags Am Mach 86:933-6 S 3 '42

How one large company uses carbide tools on small-lot production. Mach 48:145 My '42

How to machine cast armor plate. F. W. Lucht. diags Am Mach 86:1023-38 S 17 '42

How to select efficient cutting tools; Kut Kost tools; with chart. L. J. St Clair. Iron Age 150:60-7 O 1 '42

Incorrectly ground tools produce desired results; preparation of surfaces prior to metal spraying. il diags Ry Mech Eng 116: 384 S '42

Machining shell with carbide tools. M. F. Judkins. Mech Eng 63:859-60+ D '41

Mechanical clamp for carbide tip. diags Iron Age 149:56-7 My 28 '42

More production from old machine tools; application of cemented carbides. il Iron Age 149:55 F 5 '42

New method for milling with carbide-tipped cutters. M. F. Judkins. il Mach 49:186-7 S '42

New processes for tipping tools with high-speed steel. Mach 48:138 F '42

Reclaiming carbide-tipped tools; old shanks are utilized by brazing on new tips. il Steel 111:87+ Ag 17 '42

Recommended grinding procedure for wet or dry hand grinding carbide tools. diags Steel 111:74 S 28 '42

Recommended tool angles for carbide tools; data sheets. Mach 48:223 Jl; 119 Ag '42

Report of committee on shop tools; Locomotive maintenance officers' assn. Ry Mech Eng 116:474-6 N '42

Sintered carbide tools on railroad machining jobs. E. T. Broaddus. il Ry Mech Eng 116: 220-2 My '42

Steel milled faster with negative rake carbide cutters. il Iron Age 150:50 S 24 '42

Tipped tools in a hurry. F. W. Curtis. il diags Am Mach 86:204-5 Mr 19 '42

Tool loads and carbide tools. P. H. Miller. Ry Mech Eng 116:110-11 Mr '42

Tungsten economy in high-speed tool steels. Engineer 173:452-3 My 29 '42

Tungsten saver; Kennametal. il R Sci Instr 13:87-8 F '42

Use of carbide dies for drawing special shapes. J. R. Longwell. diags Steel 110:80, 82 F 2 '42

Using carbides on large machines. F. W. Lucht. diags Iron Age 149:60-1 Je 11 '42; Same. Aero Digest 41:156+ Ag '42; Same. Ry Mech Eng 116:357-8 Ag '42; Same. Steel 111:84-6 Ag 24 '42

Wanted: tools to cut rough, not smooth. F. W. Lucht. il diags Metals & Alloys 16:708 O '42

Manufacture

Brazing carbide tips on tools. il diags Automotive Ind 86:25+ Ja 1 '42

Buick makes its own carbide tools. il Mach 18:154 Ja '42; Same. J Aeronautical Sci Aeronautical R Sec 9:57 Ja '42; Same. Aero Digest 40:141 F '42; Same. Iron Age 149:44 Ja 29 '42

Cemented-carbide spot-facer made quickly. L. F. Southwick. diags Am Mach 85:1143 N 12 '41

CUTTING tools, Carbide—Manufacture—*Cont.*

Electric tool tipper. il Engineer 173:168-9 F 20 '42

Electrical brazing machine for carbide-tipped tools. il Engineering 153:126 F 13 '42

Fast tool-brazing setup; Buick motor division of General motors corp. il Steel 110:92, 95 Ap 27 '42

CYANATES

Cyanates and thiocyanates of phosphorus, arsenic and antimony. H. H. Anderson. Am Chem Soc J 64:1757-9 Ag '42

CYANIDE plants

Flow sheet mill and cyanide plant, Hedley Mascot mines, B.C. Can Min J 63:166 Mr '42

CYANIDE process

Basic theory of the cyanide process. D. C. McLaren. Can Min J 63:570-7 S '42

Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42

Filtering cyanide slimes. E. C. Bitzer. diags Eng & Min J 143:60-3 Je '42

Heating cyanide solutions. diag Eng & Min J 142:64 N '41

Precipitation of gold from cyanide solution by zinc dust. R. Leblanc. bibliog diags Can Min J 63:213-19, 297-306, 371-9 Ap-Je '42

Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42

CYANIDE process of hardening. See Case hardening

CYANIDE products service laboratory

Du Pont cyanide service laboratory. News Ed 19:1402 D 10 '41

CYANIDES

See also

Nitriles

Sodium cyanide

CYANINES

Color and constitution; the absorption of unsymmetrical cyanines; resonance as a basis for a classification of dyes. L. G. S. Brooker, G. H. Keyes and W. W. Williams. bibliog Am Chem Soc J 64:199-210 F '42

Thiazinocyanines; carbocyanines containing the 2 : 4-benzthiazine nucleus. B. Beilenson and F. M. Hamer. Chem Soc J p98-102 F '42

CYANITE

How and where kyanite refractories are used. Brick & Clay Rec 100:50-1 Mr '42

Kyanite from home and abroad. R Sci Instr 13:274 Je '42

Kyanite in Graves mountain, Georgia. J. H. Watkins. il diag Am Cer Soc Bul 21:140-1 Jl 15 '42

CYANOACETIC ester

Condensation reactions; alkylidene cyanoacetic and malonic esters. A. C. Cope and others. bibliog diag Am Chem Soc J 63:3352-6 D '41

Investigation of pyrazole compounds; the reaction product of phenylhydrazine and ethyl cyanoacetate. A. Weissberger and H. D. Porter. bibliog Am Chem Soc J 64:2133-6 S '42

CYANOETHYLATION

Chemistry of acrylonitrile; cyanoethylation of active methylene groups. H. A. Bruson. bibliog Am Chem Soc J 64:2457-61 O '42

CYANOGEN

Heat of dissociation of cyanogen. N. C. Robertson and R. N. Pease. J Chem Phys 10:490 Jl '42

CYANOGEN compounds

Alkyl carbonates in synthetic chemistry; condensation with nitriles; synthesis of α-cyano esters. V. H. Wallingford, D. M. Jones and A. H. Homeyer. bibliog Am Chem Soc J 64:576-8 Mr '42

See also

Hydrocyanic acid

CYANOHYDRINS

Mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents; the aldehydecyanohydrin reaction: evidence for the mesomeric effects of alkyl groups. J. W. Baker and M. L. Hemming. diags Chem Soc J p191-8 Mr '42

Reaction of β-isodurylaldehyde cyanohydrin with phenylmagnesium bromide. A. Weissberger and D. B. Glass. bibliog Am Chem Soc J 64:1724-7 Jl '42

CYANOSTILBENE

Symmetrical cyanostilbenes. J. B. Niederl and A. Ziering. bibliog Am Chem Soc J 64:2486-7 O '42

Unsymmetrical cyanostilbenes. J. B. Niederl and A. Ziering. bibliog Am Chem Soc J 64:885-6 Ap '42

CYANURIC triamide. See Melamine

CYCADEOIDEA

Cycadeoid types of the Kansas cretaceous. G. R. Wieland. il pl Am J Sci 240:192-203 Mr '42

CYCLIC compounds

Carbonyl bridge compounds. C. F. H. Allen and J. Van Allan. bibliog Am Chem Soc J 64:1260-7 Je '42

Reaction between cyclic β-diketones and Grignard reagents; 1,3-diketo-2,2-dimethylhydrindene. T. A. Geissman and V. Tulagin. Am Chem Soc J 63:3352-6 D '41

Studies of the physical properties of alicyclic hydrocarbons; molal volumes of monoalicyclic hydrocarbons at 20°C. G. Egloff and R. C. Kuder. bibliog J Phys Chem 46:281-95 F '42

Synthesis of condensed ring compounds. L. W. Butz, L. M. Joshel and J. Feldman. Am Chem Soc J 63:3344-51 D '41

Synthesis of condensed ring compounds; further application of the dienyne double addition reaction. L. W. Butz and L. M. Joshel. bibliog Am Chem Soc J 64:1311-13 Je '42

Tautomeric character of the imidazole ring. H. Green and A. R. Day. bibliog Am Chem Soc J 64:1167-73 My '42

CYCLOBUTANE

Micromethod for identification of volatile liquids; vapor pressure, boiling point, and olefin content of cyclobutane and *cis*-2-butene. S. W. Benson. bibliog Ind & Eng Chem Anal ed 14:189-91 F 15 '42

CYCLOBUTANONE

Photochemical decomposition of cyclic ketones. S. W. Benson and G. B. Kistiakowsky. bibliog diag Am Chem Soc J 64:80-6 Ja '42

CYCLOGERANIOL

Condensation of β-cyclogeraniol with leucoisonaphthazarin. M. D. Gates and F. Misani. Am Chem Soc J 64:1979-80 Ag '42

CYCLOHEPTADECANOL

American musk; chemical constitution of the musk of the Louisiana muskrat. P. G. Stevens and J. L. E. Erickson. bibliog Am Chem Soc J 64:144-7 Ja '42

CYCLOHEXADIENE

Decomposition of cyclohexene oxide and 1,4-cyclohexadiene from the standpoint of the principle of least motion. F. O. Rice and A. L. Stallbaumer. Am Chem Soc J 64:1527-30 Jl '42

Dehydration of 1,5-hexadiene-3-ol to 1,3,5-hexatriene and 1,3-cyclohexadiene. L. W. Butz. Am Chem Soc J 64:1978-9 Ag '42

CYCLOHEXANE

Determination of small amounts of benzene in the presence of cyclohexane and of toluene in the presence of methylcyclohexane. B. B. Corson and L. J. Brady. il Ind & Eng Chem Anal ed 14:531-3 Jl 15 '42

Diffraction of X-rays by liquid benzene-cyclohexane mixtures. A. Eisenstein and N. S. Gingrich. diags J Chem Phys 10:195-9 Ap '42

CYCLOHEXANE—*Continued*

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

Influence of solvent on the ultraviolet absorption maximum of vitamin A. K. Morgareidge. bibliog Ind & Eng Chem Anal ed 14:700-2 S 15 '42

Ternary systems involving cyclohexane, water, and isopropyl and normal propyl alcohols. E. R. Washburn and others. bibliog Am Chem Soc J 64:1886-8 Ag '42

CYCLOHEXANOL

Dipole moments of cyclohexanol and cyclohexanone in dioxane. I. F. Halverstadt and W. D. Kumler. Am Chem Soc J 64:1982 Ag '42

Oxidative cleavage of cyclic α-keto alcohols by means of lead tetraacetate. E. Baer. Am Chem Soc J 64:1416-21 Je '42

CYCLOHEXANONE

Dipole moments of cyclohexanol and cyclohexanone in dioxane. I. F. Halverstadt and W. D. Kumler. Am Chem Soc J 64:1982 Ag '42

Photochemical decomposition of cyclic ketones. S. W. Benson and G. B. Kistiakowsky. bibliog diag Am Chem Soc J 64:80-6 Ja '42

CYCLOHEXENE

Action of alkali on cyclohexenecarbonals. H. E. French and D. M. Gallagher. Am Chem Soc J 64:1497-9 Jl '42

Course of autoxidation reactions in polyisoprenes and allied compounds; the structure and reactive tendencies of the peroxides of simple olefins. E. H. Farmer and A. Sundralingam. Chem Soc J p121-39 F '42

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

Rubber, polyisoprenes, and allied compounds; the molecule-linking capacity of free radicals and its bearing on the mechanism of vulcanisation and photo-gelling reactions. E. H. Farmer and S. E. Michael. Chem Soc J p513-19 Ag '42

CYCLOHEXENE carboxylic acid

1 : 3 : 3-Trimethyl-Δ^1-*cyclo*hexene-4-carboxylic acid; its formation from *l*-Δ^3-carene-5 : 6-epoxide. A. R. Penfold and J. L. Simonsen. Chem Soc J p206-9 Mr '42

CYCLOHEXENE oxide

Decomposition of cyclohexene oxide and 1,4-cyclohexadiene from the standpoint of the principle of least motion. F. O. Rice and A. L. Stallbaumer. Am Chem Soc J 64:1527-30 Jl '42

CYCLOPENTADECANOL

American musk; chemical constitution of the musk of the Louisiana muskrat. P. G. Stevens and J. L. E. Erickson. bibliog Am Chem Soc J 64:144-7 Ja '42

CYCLOPENTADIENE

Thermal decomposition of five-membered rings. F. O. Rice and M. T. Murphy. bibliog Am Chem Soc J 64:896-9 Ap '42

CYCLOPENTADIENONE

Reactions with tetraphenylcyclopentadienone; condensation with cyclic 1,3-diene systems. O. Grummitt, R. S. Klopper and C. W. Blenkhorn. bibliog Am Chem Soc J 64:604-7 Mr '42

CYCLOPENTANE

Thermal decomposition of five-membered rings. F. O. Rice and M. T. Murphy. bibliog Am Chem Soc J 64:896-9 Ap '42

CYCLOPENTANONE

Photochemical decomposition of cyclic ketones. S. W. Benson and G. B. Kistiakowsky. bibliog diag Am Chem Soc J 64:80-6 Ja '42

CYCLOPENTENE

Thermal decomposition of five-membered rings. F. O. Rice and M. T. Murphy. bibliog Am Chem Soc J 64:896-9 Ap '42

CYCLOPENTENOPHENANTHRENE

Synthesis of 2′-ketodihydro-1,2-cyclopentenophenanthrene and derivatives of phenanthro[1,2-*b*]furan. A. L. Wilds. bibliog Am Chem Soc J 64:1421-9 Je '42

CYCLOPROPANE

Formation of cyclopropanes from monohalides; action of sodium alkyls on aliphatic chlorides; relation to the Wurtz reaction. F. C. Whitmore and H. D. Zook. bibliog Am Chem Soc J 64:1783-5 Ag '42

CYCLOTRON

Cooling an atom smasher. il Dom Eng 159:67+ F '42

Cyclotron. W. M. Brobeck. il diags Elec Eng 61:348-53 Jl '42

Cyclotron treatment of cancer; abstract. J. C. Larkin and R. S. Stone. Science 94:sup 12 D 12 '41

Domed building fitted to research needs; structure to house cyclotron at University of California. il diags Eng N 128:536-8 Ap 9 '42

Molecular films, the cyclotron and the new biology. H. S. Taylor, E. O. Lawrence and I. Langmuir. 95p $1.25 Rutgers univ. press, New Brunswick, N.J. '42

Transformer uses two load ratio adjusters; autotransformer built for the University of California cyclotron. E. F. Christensen. il diag Elec W 117:2077 Je 13 '42

Use of elkonite for cyclotron ion sources. B. R. Curtis and R. S. Bender. R Sci Instr 13:266 Je '42

Voltage stabilizer for a direct-current generator. W. M. Schwarz. diag R Sci Instr 13:213-14 My '42

CYLINDERS

Contents of horizontal cylinders; multiple use chart for vertical and horizontal tanks, pipe lines, etc. J. Tarrant. Water Works & Sewerage 89:282-3 Je '42

Flame hardening cylindrical surfaces. S. Smith. il diags Steel 111:76, 82+ Jl 20; 92, 95+ Ag 3 '42; Same. Welding J 21:443-8 Jl '42

Oxyacetylene flame hardening; cylindrical surface hardening. J. G. Magrath. il diags Am Mach 85:1317-19 D 24 '41

Portable rollers turn cylinders for welding. il Factory Management 100:124 Jl '42

Quantities of cylindrical intersections; water supply, subway, and other construction. L. J. Sack. diags Eng N 128:618-21 Ap 23 '42

Study of the collapsing pressure of thin-walled cylinders. R. G. Sturm. il diags Ill U Eng Exp Sta Bul 329:1-77 bibliog(p75-7) '41 (pa 80c)

Virtual masses and moments of inertia of disks and cylinders in various liquids. Y. Yu. diag J Ap Phys 13:66-9 Ja '42

CYLINDERS (engines, etc.)

Cylinder proportions; experiments showing the influence upon air movement in a compression-ignition engine. C. B. Dicksee. diag Automobile Eng 32:159-61 Ap '42

Hydraulic cylinders. J. E. Thompson and R. B. Campbell. il diags Product Eng 13:122-7, 274-7 Mr, My '42

Locomotive cylinder heads welded; with cost data. L. W. Sagle. il diags Am Mach 86:937-9 S 3 '42

Lining

How to inspect a Diesel engine. E. R. Spencer. diags Power 86:263-4 Ap '42; Same. Power Pl Eng 46:81-2 Ap '42

Rolls Royce cylinder liners cut from seamless steel tubing. il Aviation 41:155, 157, 159 Jl '42

Manufacture

Arc welding relieves cylinder headaches. F. A. Jones. il Welding J 21:183 Mr '42

Automatic metal spraying; equipment applies protective finish for aircraft cylinders. il Steel 110:92+ Mr 9 '42

Cast-iron; future developments and possibilities in the automobile industries. il Automobile Eng 32:237-42 Je '42

Deep finned airplane cylinder heads made on production line. E. Bremer. il Foundry 70:74-7+ S; 80-2+ O '42

CYLINDERS (engines, etc.)—Manufacture—*Continued*

Die-casting aluminum aircraft cylinder heads. il diag Iron Age 148:63 N 20 '41

Forged cylinder head developed by Wright. il Aviation 41:117+ Je '42

Forged cylinder heads increase power of Cyclone engine. H. E. Linsley. il Aero Digest 40:141-2 Je '42

Wear

Chrome-hardening of cylinder bores. H. Van der Horst. diag Mech Eng 63:536-9+ Jl '41; Same. Metal Finishing 40:69-73 F '42; Discussion. Mech Eng 64:395-6 My '42

Cylinder bores; methods for reducing rate of wear. Automobile Eng 32:236 Je '42

Diesel cylinder wear. Diesel Power 20:677 Ag '42

Practical application of gas producers to road transport; gaseous impurities and cylinder wear; abstracts. S. G. Ward and W. J. Morison. Engineer 173:386-7, 405-7 My 8-15 '42; Engineering 153:418-20, 438-40 My 22-29 '42

CYMENE

p-Cymene studies; vapor pressure of *p*-cymene, some of its derivatives and related compounds. K. A. Kobe and others. bibliog diag Am Chem Soc J 63:3251-2 D '41

Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34:1028-34 S '42

Synthetic para-cymene. J. M. Crowe. Chem Ind 50:65 Ja '42

CYPRUS

Water supply

Water supply in Cyprus; abstract. C. Raeburn. Am Water Works Assn J 34:306-8 F '42

CYSTINE

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. bibliog il Ind & Eng Chem 34:1398-1402 N '42; Abstract. Textile World 92:76-7 N '42

Cystine linkage in wool fibers; abstract. W. I. Patterson and others. Textile Col 64:63-5 F '42

New cystine tests of photographic importance. A. Steigmann. Soc Chem Ind J 61:52 Mr '42

Role of cystine in the structure of the fibrous protein, wool. W. I. Patterson and others. bibliog J Research Nat Bur Stand 27:89-103 Jl '41; Same. Am Dyestuff Rep 30:425-30, 447-8 Ag 18 '41; Discussion. J. B. Speakman. bibliog Am Dyestuff Rep 31:25; Reply. M. Harris and W. B. Geiger. 25-6 Ja 5 '42

CYTOCHROMES

Cytochrome B_2. E. Haas, B. L. Horecker and T. R. Hogness. Science 95:406 Ap 17 '42

CYTOPLASM. See Cells

CZECHOSLOVAKIA

Economic conditions

Czechoslovakia in 1941. Economist 142:sup17 Mr 14 '42

German occupation

Germanisation in Czechoslovakia. Economist 141:790 D 27 '41

Germany's economic conquest of Czechoslovakia. A. Basch. 29p bds 10c Czechoslovak nat. council of America, 2608 S. Central park, Chicago '41

New puppet government in the protectorate. Economist 142:149 Ja 31 '42

Three years of occupation. Economist 142:358 Mr 14 '42

D

DAFOE, John Wesley, 1866-

Greatest man in Canada; an appreciation of editor of Winnipeg Free press. B. Hutchison. pors Fortune 25:106-11, 114, 116+ Je '42

DAIRIES

See also
Milk houses
Milk plants

Electric equipment

Condensed milk; motorised factory, Wilts united dairies. il Elec R (Lond) 129:657-60 D 12 '41

Electrical sterilizing equipment for farm dairies. J. R. Tavernetti and K. F. McIntire. (Agric. exp. sta. bul. 650) 28p Univ. of California, Berkeley '41

Utensil sterilizer rated at 1½ kw. J. E. Nichols. il Elec W 117:1704-6 My 16 '42

Wired help pinch-hitting for hired help; equipping and operating a modern sanitary electric dairy farm. il Elec West 89:49 Ag '42

Equipment

Dairy engineering. A. W. Farrall. 405p $4 Wiley '42

How to prevent and remove milk deposits. L. Shere. il Food Ind 14:44-6 Je; 63-6 Jl '42

Sanitary glass piping developed for dairy industry. il Cer Ind 39:35 Ag '42

Stainless steel fabrication simplified; R. G. Wright co. dairy equipment. R. F. Ellis. il Steel 110:94, 97+ My 11 '42

DAIRY farmers' union

Cool to Lewis; West Coast farm groups prepare to fight U.M.W. drive to organize dairymen. Business Week p61 My 30 '42

Dairymen in C.I.O. Business Week p79 F 14 '42

Milk miners; Lewis and his U.M.W. open drive to organize dairy farmers of Northeast. Business Week p70-1 Ap 18 '42

DAIRY laws

State milk and dairy legislation. 595p Work projects administration, Washington, D.C; $1.50 Supt. of doc. '41

DAIRY products

All-America package competition; award to the Borden co. il Mod Packaging 15:202-3+ Ap '42

Dairy chemurgy; abstract. F. C. Atwood. Chem Ind 50:510 Ap '42

Dairy products goals by Agriculture dept. Comm & Fin Chr 154:1687 D 27 '41

European situation deteriorating. For Comm W 7:21-2 My 30 '42

Food industry supports general defense; problems being met in feeding the nation, its armed forces and its allies. W. H. Hillyer. Barron's 22:9 My 25 '42

How to calculate gallon weights of dairy products. A. J. Hahn and P. H. Tracy. Food Ind 14:55 Je '42

How to prevent and remove milk deposits. L. Shere. il Food Ind 14:44-6 Je; 63-6 Jl '42

Ideal terminal plant for handling dairy products. M. Bridston. il Refrig Eng 43:48+ Ja '42

Price control effects in dairy, baking and textile industries. Barron's 22:6 Je 8 '42

Up-a-daisy dairies. Business Week p63-6 Ag 1 '42

See also
Butter
Casein
Cheese
Lactic acid
Milk
Milk trade

Prices

Dairy price adjustments to assure record output. Comm & Fin Chr 156:379 Jl 30 '42

Why the butter buying price was raised. Barron's 22:6 Ag 3 '42

Statistics

Lend-lease purchases of milk and milk products during first 18 months. For Comm W 9:27 N 7 '42

Testing

Tests for dairy products. F. Shaw. bibliog Chem & Ind 61:177-80 Ap 18 '42

DAIRY products—*Continued*

Transportation

Trucks best trains on 1,500-mile run with perishables; Crowley's tractor and Fruehauf all-aluminum trailer fleet run between Binghamton, N.Y. and Miami, Fla. il map Food Ind 14:65-7 Je '42

DAIRY waste

Alternating double filtration. A. Parker. Water & Sewage 80:27+ Mr '42; Same cond. Engineering 152:484-5 D 19 '41; Excerpts. Engineer 172:422 D 12 '41

Combined complete treatment of medium and high concentration wastes; regenerative digestion process and oxidized sludge process. E. B. Mallory. flow diag il diags Water Works & Sewerage 89:143-55; Discussion. E. F. Eldridge. 155 Ap '42

Treatment of milk waste; patent. Food Ind 13:97-8 D '41

Two-stage filtration; milk and cheese wastes. Eng N 127:746 N 20 '41

DAIRYING

Dairy engineering. A. W. Farrall. 405p $4 Wiley '42

See also

Dairy farmers union
Milk
Milk trade

Bibliography

Dairy industry in the United States, 1940-1941; selected references on the economic aspects of the industry. N. G. Larson. (Agricultural economics bibliog. 97) 133p U.S. Bur. of agricultural economics, Washington '42

Finance

Outlook for dairy companies. Barron's 22:6 Mr 30 '42

Australia

News by commodities. For Comm W 6:20 Ap 4 '42

Brazil

News by commodities; foodstuffs. For Comm W 6:19-20 F 14 '42

Great Britain

Maypole dairy company, limited, annual general meeting, London. Economist 142:772-3 My 30 '42

Latin America

Latin American dairy industries studied by U.S. technologists. For Comm W 7:25 Je 6 '42

Switzerland

Dairy products, 1939-1941. For Comm W 5:23-4 D 20 '41

United States

How rationing may affect dairy companies. Barron's 22:6 O 5 '42

How the dairy companies are adjusting to war. A. B. Wells. il Mag of Wall St 69:702-4+ Ap 4 '42

DAKAR, French West Africa

Dakar and its back-country. il For Comm W 8:11+ S 12 '42

DAKIN, Henry Drysdale, 1880-

Award of the Davy medal of the Royal society. Science 95:66 Ja 16 '42

DALANTIN. See Demerol

DALGETY and company

Annual general meeting, 57th, London. Economist 142:202 F 7 '42

DALI, Salvador, 1904-

Twelve artists in U.S. exile. Fortune 24:110 D '41

DALLAS, Texas

Family mobility in Dallas, Texas, 1923-1938. C. M. Rosenquist and W. G. Browder. 96p Univ. of Texas, Austin '41

Rapid transit

How mass transportation is conducted in Dallas. M. A. Jarrow. il Mass Transportation 38:120-8 My '42

In the vanguard for staggered hours; Dallas railway & terminal company, in cooperation with civic bodies, is working out plan. Transit J 86:127-9 Ap '42

DAMAGES

Defense against claims for damage from blasting; abstract. H. Williams. Rock Prod 45:58 Mr '42

See also

Accidents, Industrial
Employers' liability
Negligence
Personal injuries
Workmen's compensation

DAMMAR gum

Netherlands Indies gum damar production. For Comm W 6:21 Ja 10 '42

DAMPERS

Practical aspects of damper control. P. S. Dickey and H. L. Coplen. diags Power Pl Eng 46:60-2 Ja '42

DAMPING of vibration. See Vibration

DAMPNESS in buildings

Bad humidity conditions almost brought down the roof; improved heating and ventilation with humidity control halts deterioration at Oberlin college. L. S. Ries. il Heating-Piping 14:39-40 Ja '42

Dampness in underground air raid shelters; abstract. F. S. Smith. Eng N 128:422 Mr 12 '42

How to estimate the amount of water vapor transmitted through building walls. Heat & Ven 39:43-7 S '42

How to prevent condensation in houses. L. V. Teesdale. diag Am Bld 64:78 S '42

Humidity control in underground bomb-proof spaces. E. Ledoux. il Heating-Piping 14:6-8, 364-6 Ja, Je '42

Simultaneous heat and vapor transfer characteristics of an insulating material. F. G. Hechler, E. R. McLaughlin and E. R. Queer. bibliog diags Heating-Piping 14:574-8; Discussion. 578-9 S '42

DAMS

American bridges and dams. P. Zucker. 16p bibliog 48il $1.75 Greystone press, New York '41

Arkabutla dam to be completed in October. il diag Eng N 128:220-1 F 5 '42

Civil engineering in 1941. il diags map Engineer 173:2-3, supp 1 Ja 2 '42

Clearwater Dam outlet works completed. il diags Eng N 127:758-9 N 27 '41

Concrete pumped downhill for a dam; control works of the earth and rock Indian Rock dam. C. M. Glines. il diag plan Eng N 128:863-5 My 21 '42

Defense against deluge; Whitney Point dam provides protection to New York state area devastated in 1935 flood disaster. R. Siegrist. il diags maps Explosives Eng 20:45-52 F '42

Delaware aqueduct. il diags plans Engineer 174:184-6, 208-10, 226-8 S 4-18 '42

Douglas dam out, TVA starts Fontana, South Holston and Watauga dams. Eng N 127:904 D 25 '41

Dual water supply for Oklahoma City. il map Eng N 128:788-9 My 7 '42

Emergency program of the TVA. T. B. Parker. il map Eng N 127:866-70 D 18 '41

Energy loss at the base of a free overfall. W. L. Moore. il diags Am Soc C E Proc 67:1697-1714 N '41; Discussion. 68:187-90, 635-49, 1057-66 Ja, Ap, Je '42

Federal dam projects require many railroad relocations. il Ry Age 111:1073-7 D 27 '41

Geology of dam sites on the upper tributaries of the Columbia river in Idaho and Montana; Katka, tunnel no. 8 and Kootenai Falls Dam sites, Kootenai river, Idaho and Montana. C. E. Erdmann. diag U S Geol S Water-supply Pa 866-A:1-36. pl 1-6; pa 25c Supt. of doc. '41

Halts dam projects. Comm & Fin Chr 156:1721 N 12 '42

Headline projects of 1941. il Eng N 128:124-9 Ja 15 '42

Hydraulic fill at Knightville dam. W. L. Maschmeyer. il diags Eng N 127:808-12 D 4 '41

Kingsley dam. il diags Engineer 174:35-8, 46-8 Jl 10-17 '42

DAMS—*Continued*

Materials handling for Santa Fe dam. il diags map Eng N 129:434-7 S 24 '42

Merriman dam and Delaware aqueduct; construction progress and methods on water supply project for New York city. R. W. Armstrong. il Civil Eng 12:449-52 Ag '42

Mud Mountain dam on the White river, Washington, U.S.A. il diags Engineering 154:1-3, 10, 41-3, 50 Jl 3, 17 '42

Nottely dam closed month ahead of schedule. il Eng N 128:298 F 19 '42

Permeability of Mud Mountain Dam core material. A. S. Cary, B. H. Walter and H. T. Harstad. diag Am Soc C E Proc 68:1089-98 S '42; Discussion. 68:1843-6 D '42

Pioneer hydro plant modernized; Moline water power co. il diags plan map Power Pl Eng 46:62-4 Ja '42

Processing plant for rock-earth dam; Green Mountain dam in Colorado. il diags Eng N 128:188-91 Ja 29 '42

Reclamation bureau starts Davis dam on the Colorado river. il plan Eng N 128:960 Je 11 '42

Relation of river dams to community water supplies; experience of Tennessee Valley authority. W. G. Stromquist and L. H. Clouser. Am Water Works Assn J 34:367-73 Mr '42

Rolled-fill methods at Sepulveda dam. J. G. Morgan. il diags Eng N 129:170-2 Jl 30 '42

Soils engineering at Kentucky dam. M. N. Sinacori. il plan Civil Eng 12:423-6 Ag '42

Some observations on dimensional analysis. F. O. Rose. Boston Soc C E J 29:245-63 O '42

Stability of granular materials. R. E. Glover and F. E. Cornwell. diags Am Soc C E Proc 67:1639-56 N '41; Discussion. 67:1723-4; 68:501-5, 651-60, 1399-1403 N '41, Mr-Ap, O '42

TVA starts construction of $30,000,000 Douglas dam. Eng N 128:213-14 F 5 '42

TVA's wartime program. C. H. Vivian. il diags map Comp Air M 47:6698-704 Ap '42

Three dams to end Houston floods. il map Eng N 129:239-40 Ag 13 '42

See also

Cofferdams
Colorado river—Boulder Dam project
Columbia river—Bonneville dam
Columbia river—Grand Coulee dam
Earth pressure
Hydroelectric plants
Irrigation
Reservoirs
Rivers—Regulation
Spillways

Cost

Berlin dam, Ohio; unit prices. Eng N 128:162 Ja 22 '42

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:200-10 Ap 23 '42

Davis dam and powerhouse, Arizona-Nevada; unit prices. Eng N 128:1027-8 Je 18 '42

Pitch reservoir, Waterbury, Connecticut; unit prices. Eng N 128:523 Ap 2 '42

See also

Dams, Concrete—Cost

Design

Corrugated sheet-steel catenary dam. il Engineering 152:387, 390 N 14 '41

Design and construction of San Gabriel dam no. 1; rock-fill dam; with cost data. P. Baumann. il diags plan Am Soc C E Proc 67:1199-1238 S '41; Discussion. 67:1783, 1886; 68:182-6, 295-6, 506, 580-2 N '41-Ap '42

Fundamentals for designing low dams. il diags Pub Works 73:14-16+ S; 14-16, 68-70 O; 19-21+ N '42

Model tests on structures for hydroelectric developments. L. M. Davis. il diags plans Am Soc C E Proc 68:543-63; Discussion. 575-9, 1039-40 Ap, Je '42

More power for bomber production; two dams being constructed by the Aluminum company of America. il diag Eng N 128:334-7 F 26 '42

Nomograph for computing elevations of stilling basin aprons. C. Freeman. Civil Eng 12:157-8 Mr '42

Failures

Fort Peck slide. T. A. Middlebrooks. il diags Am Soc C E Proc 66:1729-48 D '40; Discussion. 67:488-90, 723-6, 891-8, 1242-4, 1887-8; 68:152-6 Mr-My, S, D '41-Ja '42

Foundations

Asphalt cutoff wall at Claytor dam; sand-asphalt mix used to stop underflow. H. S. Slocum. il diag Eng N 128:490-2 Mr 26 '42; Discussion. V. A. Endersby. 128:900 Je 4 '42

Big rigs drive cofferdam piles; TVA's big Kentucky dam. J. W. Peerson. il diags Eng N 128:194-9 Ja 29 '42

Cherokee dam. il diags plan Engineer 174:75-7 Jl 24 '42

Cofferdam design for Kentucky dam. A. F. Hedman. il diags plan Eng N 128:30-5 Ja 1 '42

Compaction of cohesionless foundation soils by explosives. A. K. B. Lyman. il diags plan map Am Soc C E Proc 67:769-80 My '41; Same cond. Engineer 172:45-6 Jl 18 '41; Discussion. Am Soc C E Proc 67:1511-12; 68:164-6, 285-6 O '41, Ja-F '42

Construction plant and methods, Friant dam. D. S. Walter. il diag Civil Eng 12:259-61 My '42

Fort Peck slide. T. A. Middlebrooks. il diags Am Soc C E Proc 66:1729-48 D '40; Discussion. 67:488-90, 723-6, 891-8, 1242-4, 1887-8; 68:152-6 Mr-My, S, D '41-Ja '42

Sliding plug for drill holes limits zone to be grouted; Shasta dam. il diag Eng N 128:412-13 Mr 12 '42

Stopping leakage under Hales Bar dam. C. H. Vivian. il diags Comp Air M 47:6749-55 Je '42

Model testing

Dam outlet works in a western state; model-prototype conformity. S. P. Wing. diags Am Soc C E Proc 68:1325-33 O '42

Hydraulic conditions at approach to a lock and dam; model-prototype conformity. W. J. Hopkins. il diags Am Soc C E Proc 68:1369-77 O '42

Hydraulic structures; model-prototype conformity. J. E. Warnock and H. G. Dewey, jr. il diags Am Soc C E Proc 68:1269-94 O '42

Meter measurements of dam discharge; model-prototype conformity. E. Soucek. Am Soc C E Proc 68:1352-65 O '42

Pressure heads on a western dam; model-prototype conformity. J. C. Stevens and R. B. Cochrane. il diag Am Soc C E Proc 68:1343-51 O '42

Spillway coefficients at an eastern dam; model-prototype conformity. G. H. Hickox. diag plan Am Soc C E Proc 68:1334-42 O '42

Protection

Old dam anchored with stay bolts. diags Elec W 117:1838 My 30 '42

Repair

Locating and stopping a leak in a water works dam. H. L. Field and C. I. Sterling, jr. il Water Works & Sewerage 88:553-4 D '41

Testing

Oil used in testing earthfill density; Green Mountain Dam embankment. S. Poe. il Eng N 127:814-16 D 4 '41

DAMS, Concrete

Absorptive form lining tests at Friant. il diag Eng N 127:884-6 D 18 '41

Aggregate production for Friant dam. C. T. Douglass. flow diag il Civil Eng 12:127-30 Mr '42

Apalachia project of the TVA; dam, conduit and penstock. C. H. Vivian. il map Comp Air M 47:6723-32 My '42

Arch dam built between gravity abutments; project to supply additional water for Camp San Luis Obispo, Calif. il Eng N 128:530 Ap 9 '42

Cableway system of distributing concrete found ideal on big dam project; Shasta dam. il plan Concrete 50:2-4 F '42

DAMS, Concrete—*Continued*
Cement plant for Shasta dam. il Engineer 174:13-14 Jl 3 '42
Central Valley project. il map Engineer 173: 518-21 Je 19 '42
Cherokee dam. il diags plan Engineer 174: 75-7, 84-6 Jl 24-31 '42
Claytor hydroelectric power plant. P. Sporn and H. A. Kammer. il diags plan Engineering 152:421-4 N 28 '41
Concrete mixing plant for Friant dam. C. T. Douglass. il Civil Eng 12:191-3 Ap '42
Concrete placing goes into high gear at Center Hill dam. il Eng N 129:192 Ag 6 '42
Concrete production and control for Saugatuck dam. W. R. Miller. il Civil Eng 12: 88-90 F '42
Construction plan and methods, Friant dam. D. S. Walter. il diag Civil Eng 12:259-62 My '42
Effect of belt transportation on concrete aggregate grading at Shasta dam. G. L. Williams. il diags Am Concrete Inst J 13: 329-32 F '42
Effect of grinding in the large mixers on aggregate grading at Hiwassee dam. W. R. Waugh. il Am Concrete Inst J 14:9-20 S '42
Equipment used at Friant dam now employed in constructing dam in Tennessee. il Eng N 129:193 Ag 6 '42
Excavation and concreting methods; Scanlon dam on the Lois river, British Columbia. W. Jamieson. il Can Eng R & B 79:16-18 D '41
Fabrication and installation practices in building the Shasta penstocks. H. W. Young. il diags Steel 111:72-4+ Ag 10 '42
General features of Friant dam. R. B. Williams. il map Civil Eng 12:81-3 F '42
Grand Coulee dam. il Engineer 174:168-70 Ag 28 '42
Grand Coulee dam. il(p190) Engineering 154: 186 S 4 '42
High temperature recorded in large monolith of concrete. il Eng N 128:852 My 21 '42
How absorptive form liner was utilized on Friant Dam project. W. Waterfall. il Concrete 50:18+ My '42
Influence of vibration, consistency, and grading of aggregate upon the design of concrete. G. W. Hutchinson. il Am Concrete Inst J 13:9-28 S '41; Discussion. 13:sup28^{1}-28^{15} Je '42
Methods of handling and placing concrete at Shasta dam. C. S. Rippon. il plan Am Concrete Inst J 14:1-8 S '42
Mexico builds a high arch dam on the Yaqui river; Angostura dam. il Eng N 127: 734-5 N 20 '41
Operating a 9-mile belt conveyor at Shasta dam. A. H. Whitmore. il Eng N 129:218-20 Ag 13 '42
Powell River company's new dam. F. H. Fullerton. il Pulp & Pa of Can 43:359-61 Ap '42
Shand dam completed. il Roads & Bridges 80:30+ S '42
Shasta and Keswick dams. H. W. Young. il maps Comp Air M 47:6774-81 Jl '42
TVA's Ocoee no. 3 dam nearly ready for gate erection. il Eng N 128:961 Je 11 '42
Water, water, everywhere; multiple-purpose Central Valley project. A. R. Boone. il map Sci Am 166:178-9 Ap '42

Cost

Bluestone dam, West Virginia; unit prices. Eng N 128:212 Ja 29 '42

Repair

Stopping leakage under Hales Bar dam. C. H. Vivian. il diags Comp Air M 47:6749-55 Je '42

Testing

Strain meters to measure plastic flow in Shasta dam. il Eng N 128:425 Mr 12 '42

DAMS, Steel
Corrugated sheet-steel catenary dam. il Engineering 152:387, 390 N 14 '41

DANCING, Photography of. See Photography of dancing

DANCING schools

Advertising

$10 million worth of dancing lessons; story of Arthur Murray, advertiser. E. Peterson. il Ptr Ink 197:11-13+ N 28 '41

DANIELS, Josephus, 1862-
Resigns as Mexican ambassador. Comm & Fin Chr 154:1238 N 27 '41

DANUBIAN countries
Danube states; economic conditions, 1941. Economist 142:sup16 Mr 14 '42

DANZIG

German occupation

Nazi conquest of Danzig. H. L. Leonhardt. 363p bibliog(p343-9) $3.50 Univ. of Chicago press '42

DARK adaptation. See Eye—Accommodation and refraction

DARKROOMS. See Photography—Studios and darkrooms

DARWIN, Charles Robert, 1809-1882
Evolution and knowledge. W. E. Ritter. Science 95:58-61 Ja 16 '42

DASHES. See Punctuation

DATES
Date export trade of Iraq. For Comm W 6:20 Ja 10 '42

DAVIES, Ralph Kenneth, 1897-
Portrait. Nat Pet N 34:13 S 23 '42
Someone loves Ickes. por Fortune 26:30+ S '42

DAVIS, Champion McDowell, 1879-
Elected president of the Atlantic coast line railroad. por Ry Age 113:643 O 24 '42; Barron's 22:5 N 9 '42

DAVIS, Elmer Holmes, 1890-
Elmer Davis and the news. por Business Week p7 Je 20 '42
Message from Elmer Davis to American librarians. Special Lib 33:305 O '42

DAVIS, William Hammatt, 1879-
Will Davis of the War labor board. J. Chamberlain. pors Fortune 25:70-1+ Mr '42

DAWSON, Miles Menander, 1863-1942
Sketch. East Underw 43:3+ Ap 3 '42

DAY, Carroll C. 1886-1942
Sketch. por Weekly Underw 146:854 Ap 11 '42
Sketch. A. R. Jaqua. Nat Underw (Life ed) 46:2 Ap 10 '42

DAY nurseries
Proceedings of Conference on day care of children of working mothers, with special reference to defense areas, held in Washington, D.C., July 31 and Aug. 1, 1941. (Bur. publication no. 281) 84p U.S. Children's bur, Washington; pa 15c Supt. of doc. '42
Standards for day care of children of working mothers. U S Children's Bur Pub 284: 1-20; pa 10c Supt. of doc. '42

DAYLIGHT
Daylight illumination on interiors fenestrated with glass blocks. G. M. Rapp and A. H. Baker. il diags Illum Eng 36:1129-48; Discussion. 1148-56 D '41
Daylight in factories; notes on costs, electrical comparison. Electrician 128:651-2 Je 26 '42
Daylight working conditions; fuel saving and increased production. Chem Age (Lond) 47:209-10 Ag 29 '42
Glass blocks bend light; daylight conservation achieved by refraction of incoming light to ceilings and sidewalls. il Sci Am 166:62-3 F '42
Planning for daylight. J. W. T. Walsh. Light & Lighting 35:8-9; Discussion. 10 Ja '42
Visual sensitivities to color differences in daylight. D. L. MacAdam. bibliog diags Opt Soc Am J 32:247-74 My '42
See also
Windows

DAYLIGHT saving
Daylight saving time begins Feb. 9. Comm & Fin Chr 155:485 Ja 29 '42

DAYLIGHT saving—*Continued*

Daylight time here Feb. 9; let it come, say advertisers. G. Murray. Ptr Ink 198:19 Ja 30 '42

Early to bed, early to rise, to save power for defense. A. Barnes. Pub Util 29:354-8 Mr 12 '42

War-time cuts Northwest peak 10%; daily load composite of eight utilities. L. Weiner. Elec W 117:1888 My 30 '42

War time in effect. Comm & Fin Chr 155:677 F 12 '42

DAYTON, Ohio

Dayton workers largely debt-free; future spending plans highly uncertain. P. Salisbury. Sales Management 51:62-4 Jl 1 '42

This is Dayton: a 1942 boom town that retains its sense of values. D. Martin. il Sales Management 51:53-4, 56, 61 Jl 1 '42

DEAD sea

Dead sea and its surroundings. E. Bergmann. Engineer 174:150-1 Ag 21 '42

DEAF

Speech training for the deaf child. S. M. Martin. 114p $1 Norton '42

Studies in the psychology of the deaf, no. 2. F. Heider and G. M. Heider. 158p $1.75 bibliog(p158) Am. psychological assn, Northwestern univ, Evanston, Ill. '41

Law

Hard of hearing and the deaf; a digest of state laws affecting the hard of hearing and the deaf. 112p Library of Congress, Legislative reference service, Washington, D.C.; 15c Supt. of doc. '41

DEAF, Instruments for

Acoustic properties of small cavities. P. E. Sabine. diags Acoustical Soc Am J 14:74-8 Jl '42

Hearing aid design. I. Kamen. il diag Electronics 15:32-5 Jl '42

Methods for measuring the performance of hearing aids. F. F. Romanow. diags Acoustical Soc Am J 13:294-304 Ja '42

New American standard includes batteries for hearing-aids. G. W. Vinal. Ind Stand 13:91-3 Ap '42

Permanent exhibit for the Sonotone company. il diags plan Arch Forum 77:64-6 Ag '42

Plastics competition award to Koehler mfg. co, inc.; Acousticon rechargeable battery. il Mod Plastics 19:116-17 N '41

Relation of audiogram measurements to hearing aid characteristics based on commercial experience. F. W. Kranz and C. E. Rudiger. Acoustical Soc Am J 13:363-6 Ap '42

DEAFNESS

Change of phase caused by impedance deafness. K. Lowy. bibliog il Acoustical Soc Am J 13:389-92 Ap '42

Industrial noises and industrial deafness. J Ap Phys 13:304-5 My '42

Industrial noises and industrial deafness. W. A. Rosenblith. bibliog Acoustical Soc Am J 13:220-5 Ja '42

Surgical operation for deafness; abstract. G. E. Shambaugh, jr. Science 95:sup12 My 22 '42

DEALDOLIZATION

Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

DEALER helps

Aids dealers: to help win the war, and to stay in business; Crane co. sales promotion; consumer magazine and other helps. H. E. Fleming. il Ptr Ink 198:16-17+ Mr 20 '42

Bedding maker sells books; Spring-air company. Ptr Ink Mo 43:52 D '41

First aid to dealers suffering from priorities; Sealtest ice cream. B. Hall. il Ptr Ink 200:72+ S 25 '42

Four problems Fruehauf Trailer licked with a training film. W. D. Wise. il Sales Management 51:48, 50 O 1 '42

Help-retailers-sell plan builds 40,000,000-a-year pattern volume; Simplicity pattern company. il Sales Management 50:56-8 Ja 15 '42

Here is timely help for hard-pressed food retailer; Libby, McNeill & Libby campaign. il Ptr Ink 201:24+ O 30 '42

How Chevrolet is helping dealers win the battle for survival. W. E. Holler. il Sales Management 51:18-20 Jl 15 '42

How Eaton Paper trains dealers' inexperienced sales personnel. Sales Management 51:24 O 1 '42

Industrial manufacturer integrates salesmen's program; Westinghouse trains staff to be of maximum help to customers. T. Fort. il Ptr Ink 201:18-19+ O 9 '42

Lightolier teaches dealers to link lamps with accessories; new designs of non-priority materials, women in the factory, steady national advertising. il Sales Management 51:42+ Ag 15 '42

Mail order entry; Firestone launches catalog business designed to keep retail outlets alive. il Business Week p68+ O 31 '42

Service plans to help automobile dealers. E. L. Warner, jr. il Automotive & Aviation Ind 86:41, 66+ F 15 '42

Studebaker preps women for dealer mechanic training. il Ptr Ink 201:32 O 30 '42

Studebaker's bold imagination keeps hard-hit dealers going. K. B. Elliott. il Ptr Ink 201:40, 42-4 O 2 '42

Studebaker's sales department in wartime; helping dealers. Barron's 22:8-9 N 2 '42

Westinghouse goes all out to push service, and here's the sales plan. il Sales Management 50:18-20 F 15 '42

See also

Advertising—Dealer cooperation
Advertising—Dealer helps
Advertising, Point-of-sale
Display of merchandize
Salesmanship—Service
Salesmen, Retail—Training
Show windows

DEALER relations

Carrier distributes allied lines to keep dealers in business. Sales Management 50:22+ Je 1 '42

Dealers convert; Chevrolet eases its franchise regulations. il Business Week p58+ O 17 '42

No rubber for Bauer & Black, but keep fit ads keep old friends; window display program continues. il Sales Management 50:26+ Je 15 '42

Practical ideas for contacting customers between sales calls. L. Valenstein. Sales Management 49:46+ N 15 '41

Retailers baffled by war problems; get little help from manufacturers; survey of new-car dealers, tire stores and appliance dealers in ten cities. P. Salisbury. il Sales Management 50:22-4 My 1 '42

Saving the dealers; electrical-appliance outlets. Business Week p50-1 F 28 '42

13 ways to keep in touch with the trade, with few or no salesmen. E. Peterson. Ptr Ink 198:22-3, 77-9 F 13 '42; Abstract. Management R 31:94-6 Mr '42

Tire manufacturer salvages dealer organization; Goodrich of Canada, Tire savers' club. il Ptr Ink 200:20, 24 Jl 3 '42

War's jolts fail to halt Airtemp's dealer training and advertising. P. B. Zimmerman. Sales Management 50:58 Mr 15 '42

Why Studebaker has refused to scuttle its factory field force. K. B. Elliott. Sales Management 50:16-18 Ap 20 '42

See also

Advertising—Dealers, Appeal to
Christmas letters
Dealer helps
Discount, Cash
Gas companies—Appliance selling
Price discrimination
Sales policies

DEALER selection

Selling in a war economy; what constitutes a desirable retail outlet; Coopers, inc, Kenosha, Wis. K. J. Krause. Credit & Fin Management 44:5-6+ My '42

DEAMINATION

Deamination of 5-amino-8-nitroisoquinoline. B. Keilin and W. E. Cass. bibliog Am Chem Soc J 64:2442-4 O '42

DEARBORN, Ned Harland, 1893-
Dearborn heads NSC staff. por Nat Safety N 46:16+ Ag '42

DEATH
See also
Mortality

DEATH, Presumption of
Disappearance in war now problem for companies. Nat Underw (Life ed) 46:1 Ja 16 '42
Interim provisions for dependents of missing persons. F. D. McGarey. Trusts & Estates 75:281-3 S '42

DEATH rates. See Mortality—Statistics

DEBATES and debating
Let's try thinking; a handbook of democratic action. I. E. Deering. 199p bibliog(p195-9) $2.50; pa $1.50 Antioch press, Yellow Springs, Ohio '42
Military training; the fifteenth annual debate handbook, 1941-1942. B. Aly, ed. editor's ed 2v 220p, 220p bibliog(v 1, p203-20) pa $1 Lucas bros, Columbia, Mo. '41
University debaters' annual; constructive and rebuttal speeches delivered in debates of American colleges and universities during the college year, 1941-1942. E. M. Phelps, ed. 459p $2.25 Wilson, H.W. '42

DEBT
Debt repayment urged as anti-inflation step. Burroughs Clearing House 26:43-4 Ag '42
Joint announcement of the Federal bank supervisory agencies regarding amortization of debt for nonproductive purposes. Fed Res Bul 28:537 Je '42
Liquidation of many credit agencies seen. Comm & Fin Chr 156:991 S 17 '42
NYSE analysis of income, outgo and balance remaining reveals natural brake on inflation. Comm & Fin Chr 156:812 S 3 '42
Public and private debt in the United States, 1929-40. R. B. Bangs. Survey of Cur Business 21:18-21 N '41; Excerpts. Comm & Fin Chr 154:1340 D 4 '41
Roosevelt urges farmers to settle debts. Comm & Fin Chr 156:109 Jl 9 '42
US bank agencies urge amortization of debts. Comm & Fin Chr 155:1860 My 14 '42
Why repayment of debts is anti-inflationary. Fed Res Bul 28:538 Je '42
Will consumer credit liquidation curb inflation? Bankers M 145:167-8 Ag '42
See also
Bankruptcy
Collecting of accounts
Credit
Debtor and creditor
Moratorium

DEBTOR and creditor
Guide to the Liabilities (war-time adjustment) act, 1941. F. N. Keen. 93p 4s 6d Stevens & sons, London '41
Law of creditors' rights; methods for forcing collections. I. A. Ross. Credit & Fin Management 43:7-9 D '41
War relief charter. R. S. W. Pollard. 62p 1s J. Crowther, London '41
See also
Bankruptcy

DEBTS, Public
Coming drive for devaluation; inflation and the government debt burden. W. E. Spahr. Trusts & Estates 73:489-91 N '41
Debts of five major nations show rise in 1930-1940 period. Comm & Fin Chr 155:8 Ja 1 '42
Effects of war debts. J. J. Rowe. Trusts & Estates 74:559 Je '42
State & local government debt: 1941. 52p U.S. Bur. of the census, Washington '42
Why business won't crash because of huge war debt. J. L. Wick. Ptr Ink 200:17-18 S 25 '42
See also
Bonds, Government
Loans, Compulsory
Municipal bonds
State bonds

Argentina
Argentine economies in foreign debt services. Bankers M 144:426-7 My '42
Conversion of internal debt. For Comm W 5:10 D 27 '41

Canada
Public debt of Canada; dominion government 1939, 1940 and 1941, provincial governments 1939 and 1940, municipal governments 1938 and 1939. 32p pa 25c Canada. Dominion bur. of statistics, Ottawa '42
War debt burden. Trusts & Estates 73:597-8 D '41
See also
Bonds, Government
—Canada

Chile
Chilean funds ready for service of debt. Comm & Fin Chr 155:239 Ja 15 '42
Service of foreign debt. For Comm W 6:14 F 21 '42

Finland
Finnish bond payment. Comm & Fin Chr 155:1246 Mr 26 '42

Great Britain
External debt. Economist 143:367 S 19 '42
National debt at March 31, 1923 and 1938-1941. Economist 142:494 Ap 11 '42
See also
Bonds, Government
—Great Britain

Greece
Suspension of Greek interest service prolonged. Comm & Fin Chr 155:1451 Ap 9 '42

Hungary
Hungary pays on account of relief indebtedness to the United States. Comm & Fin Chr 155:114 Ja 8 '42

Illinois
Illinois plans $25 million debt cut. Comm & Fin Chr 156:1258 O 8 '42

Russia
Russia paying U.S. on money advanced. Comm & Fin Chr 155:29 Ja 1 '42

South Africa
South Africa's debt repatriation. Economist 141:479 O 18 '41

United States
Bill is passed by House raising debt limit to $125 billion to cover country's war needs. Comm & Fin Chr 155:1044 Mr 12 '42
Bill to limit debt to $125 billion signed. Comm & Fin Chr 155:1444 Ap 9 '42
Cites dangers of using federal debt to increase purchasing power, equalize income. Comm & Fin Chr 156:461 Ag 6 '42
Debt and devaluation. Inv Banking 12:35-8 Je '42
Deficit theory; from New England letter, First national bank of Boston. Bankers M 145:163-5 Ag '42; Same abr. Comm & Fin Chr 156:461 Ag 6 '42
Everybody's billions. O. Lasdon. Bankers M 144:285-98 Ap '42
Growing public debt viewed as problem of utmost gravity. J. T. Madden. Comm & Fin Chr 155:951 Mr 5 '42; Excerpts. Bankers M 144:336-7 Ap '42
Municipal news; federal debt increased; state and local decreased, year ended June 30, 1941. Comm & Fin Chr 154:1648 D 25 '41
Our debt-bearing capacity. E. Schram. Bankers M 144:376, 378 My '42
Preliminary debt statement of the United States, Dec. 31, 1941. Comm & Fin Chr 155:302 Ja 20 '42 [cont monthly]
Public and private debt in the United States, 1929-40. R. B. Bangs. Survey of Cur Business 21:18-21 N '41; Excerpts. Comm & Fin Chr 154:1340 D 4 '41
Public debt limit increased to $125,000,000,000. Burroughs Clearing House 26:17 Ap '42
Recent changes in the public debt. Fed Res Bul 28:98-100 F '42
Reporter on governments; debt limit. Comm & Fin Chr 155:123 Ja 8 '42
Rising public debt. Survey of Cur Business 22:57-8 F '42

DEBTS, Public—United States—*Continued*
Senate raises debt limit to $130 billion. Comm & Fin Chr 155:1140 Mr 19 '42
Statutory debt limitation as of Dec. 31, 1941. Comm & Fin Chr 155:236 Ja 15 '42
Text of act raising U.S. debt limit. Comm & Fin Chr 155:1633 Ap 23 '42
United States government debt, volume and kind of direct securities, June 1932-1940 and Nov. 1940-Nov. 1941. Fed Res Bul 28: 47 Ja '42 [cont monthly]
Your dollars, good or bad? tomorrow's bill for today's war. L. Stern. Mag of Wall St 69:239-41+ D 13 '41
See also
Bonds, Government
—United States

DEBYE-HÜCKEL equation
Calculation of the distribution function. C. W. Ufford and E. P. Wigner. Phys R 61: 524-7 Ap 1 '42
Calculation of the thermodynamic properties and the association of electrolyte solutions. G. Scatchard and L. F. Epstein. bibliog Chem R 30:211-26 Ap '42
Use of the *h* and *h'* functions in calculating the activity coefficients of strong electrolytes; dependence of the activity and activity coefficient on the concentration unit. W. G. Eversole and T. F. Hart. J Phys Chem 46:555-61 My '42

DECAHYDRONAPHTHALENE. See Decalin

DECALCOMANIA
Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42
Photo-lithographic decalcomania now replaces hand-lithography and assures faithful reproduction of the artist's original design. il Cer Ind 38:32-3 F '42; Same cond. Sci Am 166:194-5 Ap '42

DECALIN
Condensations by sodium; reactions of amylsodium with naphthalene, acenaphthene and decalin. A. A. Morton and others. bibliog Am Chem Soc J 64:2250-3 O '42
Corona discharge on liquid dielectrics; materials responsible for increases in power factor. J. Sticher and J. D. Piper. bibliog diag Ind & Eng Chem 33:1567-74 D '41
Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42
Magnetic susceptibilities of *cis* and *trans* decalin. W. Byerly and P. W. Selwood. Am Chem Soc J 64:717-18 Mr '42
Viscosity of *cis* and *trans* decahydronaphthalene. W. F. Seyer and J. D. Leslie. bibliog Am Chem Soc J 64:1912-16 Ag '42

DE CAMP, William Val, 1887-
Sketch. por Explosives Eng 19:320-1 N '41

DECANE
Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

DECARBOXYLATION
Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

DECATUR, Illinois

Water supply

Farm-city plan for erosion control. R. H. Musser. J Land & Pub Util Econ 18:323-7 Ag '42

DECATUR city lines, inc.
Decatur city lines; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:543 N '41

DECENTRALIZATION of industry. See Industry—Decentralization

DECISIONS (psychology). See Psychology, Industrial

DECK coverings. See Ships—Deck coverings

DECLARATION of war. See War, Declaration of

DECLARATORY judgments
Declaratory judgments. E. M. Borchard. 2d ed rev 1152p $22.50 Banks-Baldwin law pub. co, Cleveland '41
Declaratory rulings by federal agencies. W. Gellhorn. bibliog Ann Am Acad 221:153-9 My '42

DECOLORIZATION
Decolorizing filter aids; Kyrite and Dicalite M-23. R. Boyd and R. W. Schmidt. il Ind & Eng Chem 34:744-8 Je '42
Filtration of oils by the use of prepared magnesium silicate. H. E. Bierce. il Oil & Gas J 41:47-8 S 10 '42
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
New lubricating-oil-decolorizing and clay-reactivating process. W. B. Chenault and A. E. Miller. flow diag il Am Pet Inst Proc 22(3):59-68 '41; Same cond. Nat Pet N 33:R374, R376-8, R380 N 26 '41; Discussion. Am Pet Inst Proc 22(3):68-9 '41
Recovery of oil from whole cotton. E. L. Powell and F. K. Cameron. bibliog Ind & Eng Chem 34:358-9 Mr '42
See also
Bleaching
Fuller's earth
Glass—Decolorization
Petroleum refining

DECOMPOSITION
Amino-derivatives of pentaerythritol; the formation and thermal decomposition of some quaternary salts of tetrakisdimethylaminomethylmethane. G. M. Gibson and F. G. Mann. Chem Soc J p175-81 F '42
Amino-derivatives of pentaerythritol; the thermal decomposition of the tetrahydrochlorides of tetrakismethylaminomethylmethane and of tetrakisdimethylaminomethylmethane. G. M. Gibson and others. Chem Soc J p163-75 F '42
Base catalyzed decomposition of nitramide in aqueous solution. L. K. J. Tong and A. R. Olson. bibliog Am Chem Soc J 63: 3406-11 D '41
Catalysis of the thermal decomposition of acetaldehyde by hydrogen sulfide. W. L. Roth and G. K. Rollefson. Am Chem Soc J 64:1707-11 Jl '42
Catalysts for peroxide decomposition. M. Bobtelsky and A. E. Simchen. Am Chem Soc J 64:2492-8 O '42
Catalytic decomposition of ammonia over iron synthetic ammonia catalysts. K. S Love and P. H. Emmett. bibliog Am Chem Soc J 63:3297-308 D '41
Catalytic decomposition of hydrogen peroxide by basic beryllium iodide hydrosols. B. Cohen. bibliog Am Chem Soc J 64:1340-1 Je '42
Decomposition of arylazo-β-naphthylamines by sodium nitrite and glacial acetic acid. H. H. Hodgson and C. K. Foster. bibliog Chem Soc J p30-3 Ja '42
Decomposition of carbon monoxide by ferromagnetic metals. F. Olmer. bibliog diag J Phys Chem 46:405-14 Mr '42
Decomposition of cyclohexene oxide and 1,4-cyclohexadiene from the standpoint of the principle of least motion. F. O. Rice and A. L. Stallbaumer. Am Chem Soc J 64: 1527-30 Jl '42
Decomposition of methane in glow discharge at liquid-air temperature. L. M. Yeddanapalli. bibliog diag J Chem Phys 10:249-60 My '42
Decomposition of zinc chloride double salts of diazonium compounds by alcohols and phenol. H. H. Hodgson and C. K. Foster. Chem Soc J p581-3 S '42
Decomposition reactions of the aromatic diazo-compounds; mechanism of the Sandmeyer reaction. W. A. Waters. Chem Soc J p266-70 Ap '42
Decomposition temperatures of some analytical precipitates; barium carbonate. M. L. Nichols and R. H. Lafferty, jr. bibliog Ind & Eng Chem Anal ed 14:481-5 Je 15 '42

DECOMPOSITION—*Continued*

Effect of strong electric fields on the radiochemical decomposition of gaseous ammonia. M. J. McGuinness, jr. and H. Essex. diag Am Chem Soc J 64:1908-11 Ag '42

Kinetics of gaseous reactions by means of the mass spectrometer; the thermal decomposition of dimethyl ether and acetaldehyde. E. Leifer and H. C. Urey. diags Am Chem Soc J 64:994-1001 Ap '42

Kinetics of the thermal decomposition of straight chain paraffins. R. E. Burk, L. Laskowski and H. P. Lankelma. bibliog Am Chem Soc J 63:3248-50 D '41

Mechanism of elimination reactions; the decomposition of quaternary ammonium bases and of xanthate esters. P. G. Stevens and J. H. Richmond. bibliog Am Chem Soc J 63:3132-6 N '41

Photochemical decomposition of cyclic ketones. S. W. Benson and G. B. Kistiakowsky. bibliog diag Am Chem Soc J 64:80-6 Ja '42

Photochemical studies; the photochemical decomposition of acetone in the presence of an inert gas. J. J. Howland, jr. and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3404-6 D '41

Photochemical studies; the photochemical decomposition of benzene. J. E. Wilson and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3025-8 N '41

Steryl sulfates; thermal decomposition of calcium cholesteryl sulfate. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:482-3 Mr '42

Thermal decomposition of acetone catalyzed by iodine. G. M. Gantz and W. D. Walters. bibliog il Am Chem Soc J 63:3412-19 D '41

Thermal decomposition of *n*-butylamine. H. C. Beachell and H. A. Taylor. J Chem Phys 10:106-10 F '42

Thermal decomposition of five-membered rings. F. O. Rice and M. T. Murphy. bibliog Am Chem Soc J 64:896-9 Ap '42

Thermal decomposition of natural and synthetic rubber stocks. I. B. Prettyman. bibliog diag Ind & Eng Chem 34:1294-8 N '42

Vapor phase photo decomposition of methyl formate. D. H. Volman. Am Chem Soc J 64:1820-1 Ag '42

See also

Electrolysis
Hydrolysis

DECONTAMINATION (from gases, chemicals, etc.)

Gas cleansing stations; a manual of procedure during gas attack. L. Stewart. 64p pa 2s Jordan & sons, London '42

Handbook for decontamination squads. 62p U.S. Office of civilian defense, Washington; pa 10c Supt. of doc. '41

Low-cost decontamination stations. diags plan Eng N 129:631-2 N 5 '42

War gases, their identification and decontamination. M. B. Jacobs. 180p $3 Interscience publishers, 215 4th av, New York '42

See also

Food—Gas contamination

DECORATION and ornament

See also

Carpets
Cars—Decoration
Christmas tree decorations
Design
Enamel and enameling
Furniture
Glassware—Decoration
House decoration
Interior decoration
Pottery
Ship decoration
Show windows
Textile design
Textile printing

DECORATION and ornament, Architectural

1001 distinctive building details. 61p $2 Industrial publications, Chicago '42

See also

Interior decoration
Mural painting and decoration
Sheet metal work, Architectural
Terrazzo

DECORATIVE art. See Art, Decorative

DECYLAMINE

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

DECYLDOCOSANE

Higher hydrocarbons; seven alkyl substituted docosanes. F. C. Whitmore, L. H. Sutherland and J. N. Cosby. bibliog Am Chem Soc J 64:1360-4 Je '42

DEEDS of trust

Flaws in the boiler plate; a check list for corporate indenture savings. R. L. Grinnell and E. M. Rettig. Trusts & Estates 74:507-8 My '42

DE-ENAMELING. See Sheet metal, Enameled—De-enameling

DEEP rock oil corporation

Bond selector; Deep Rock Oil 6% debentures. Comm & Fin Chr 155:216 Ja 15 '42

DEEP sea deposits

Radioactivity of ocean sediments; concentrations of the radio-elements and their significance in red clay. W. D. Urry and C. S. Piggot. bibliog Am J Sci 240:93-103 F '42

DEFAULTED bonds. See Bonds—Default

DEFECTIVE and delinquent classes

See also

Blindness
Crime and criminals
Deaf
Disabled—Rehabilitation
Handicapped
Juvenile courts

DEFENSE (United States). See United States—Defenses

DEFENSE contracts. See Contracts, Government

DEFENSE councils. See Civilian defense

DEFENSE financing. See Finance—United States; Loans, Bank—Defense loans

DEFENSE loans. See Loans, Bank—Defense loans

DEFENSE mediation board. See National war labor board

DEFENSE plant corporation

Ask 10% lower rates on DPC risks; 5% commission. J. W. Snyder. Nat Underw 46:1+ O 8 '42

DPC, stakeholder; agency is outright owner of third of nation's metal-working capacity. Business Week p20+ Ap 11 '42

War goes to Mr Jesse Jones. il Fortune 24:90-3+ D '41

DEFENSE training program. See Technical education—Engineering, science, and management defense training

DEFENSE workers. See Housing—United States—Defense workers; Industrial education—Defense workers; Munition factories—Employees

DEFICIENCY diseases

Cataract and certain other manifestations of tryptophane deficiency in rats. A. A. Albanese and W. Buschke. bibliog Science 95:584-6 Je 5 '42

Chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C in monkeys. H. F. Fraser. bibliog Pub Health Rep 57:959-67 Je 26 '42

Methods of detecting mild cases of vitamin A deficiency. H. D. Kruse. Science 95:623-4 Je 19 '42

Mouth lesions in monkeys associated with a chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C. H. F. Fraser and N. H. Topping. Pub Health Rep 57:968-73, pl 1-3 Je 26 '42

Nutritional deficiencies; diagnosis and treatment. J. B. Youmans and E. W. Patton. 385p bibliog(p366-8) $5 Lippincott '41

Occurrence of fits in pyridoxine deficient rats. S. Lepkovsky, M. E. Krause and M. K. Dimick. Science 95:331-2 Mr 27 '42

DEFICIENCY diseases—*Continued*

Pathology of artificially induced scurvy in the monkey, with and without chronic calcium deficiency. T. H. Tomlinson, jr. bibliog Pub Health Rep 57:987-93, pl 1-2 Jl 3 '42

Porphyrin nature of the fluorescent blood caked whiskers of pantothenic acid deficient rats. L. W. McElroy and others. bibliog Science 94:467 N 14 '41

Preliminary observations on egg white injury in man and its cure with a biotin concentrate. V. P. Sydenstricker and others. Science 95:176-7 F 13 '42

See also

Vitamins

DEFLUORINATION

Defluorination of phosphate rock in the molten state; factors affecting rate of defluorination. K. L. Elmore, E. O. Huffman and W. W. Wolf. bibliog il Ind & Eng Chem 34:40-8 Ja '42

DEFORMATIONS (mechanics)

Deformation at high temperatures; study was made for the Iron and steel institute. Iron Age 149:71 Mr 26 '42

Deformation of plastics under load. diags Mod Plastics 19:72+ F '42

Determination of strain distribution by the photo-grid process. G. A. Brewer and R. B. Glassco. il J Aeronautical Sci 9:1-7 N '41

Distortion and shrinkage problems in ships and other large structures. L. Grover. il diags Welding J 21:665-75, 776-81 O-N '42; Abstract. Iron Age 150:50-1 O 22 '42

Photo-grid printing; technique for measuring deformations in metal. K. Cornell. il Am Phot 36:16-17 N '42

Rectangular shafts; torsional stresses and angular deformations. M. F. Spotts. diags Product Eng 13:319-21 Je '42

Welded structures; causes of deformation and their correction. G. Johannsson. il Product Eng 13:390-1 Jl '42

See also

Elasticity

Plasticity

Strains and stresses

DEGLACIATION. See Glaciers

DE GOLYER, Everette Lee, 1886-

Assistant deputy petroleum co-ordinator. por Nat Pet N 34:8 Ag 19 '42

Awarded Fritz medal. por Oil & Gas J 40:89 D 4 '41; Elec Eng 61:60 Ja '42; Min & Met 23:176-7 Mr '42

Named by OPC as assistant deputy oil co-ordinator. por Nat Pet N 34:24 Je 24 '42

Portrait. Oil & Gas J 41:60 Je 25 '42

DEGRAS

Industrial uses of chemicals; sod oil. Oil Paint & Drug Rep 141:61 Mr 9 '42

DEGREASING

Curtiss-Wright revises degreasing equipment, doubling capacity. il Aero Digest 41:131-2 O '42

Degreasing metal parts; suggested substitutes for chlorinated hydrocarbon solvents. Nat Safety N 45:26 Ja '42

Degreasing process; new methods by Murphy chemical corporation. J. L. Murphy. Aero Digest 40:232+ My '42

Dry-cleaning fluids speed arms production; solvent degreasing. Iron Age 149:64-5+ Je 18 '42

Economising solvent; hints on operating trichlorethylene degreasing plants. W. F. Jesson. Automobile Eng 32:273-6 Jl '42

New method of degreasing. il Metal Finishing 40:31-2 Ja '42

Stabilization of chlorinated solvents for metal degreasing. C. F. Dinley. il Metal Finishing 40:448-9 Ag '42; Abstract. Automotive & Aviation Ind 86:40 Je 15 '42

Substitute degreasing methods; experiences of various companies. Transit J 86:75-6 F '42

Trichlorethylene; hazards and precautions. Nat Safety N 45:54, 56 My '42

DEGREES, Academic

Associate's degree and graduation practices in junior colleges. W. C. Eells. 126p bibliog(p78-82) Am. assn. of junior colleges, 730 Jackson pl, Washington, D.C. '42

Laboratory psychology and the A.B. degree. W. N. Kellogg. Science 96:83-4 Jl 24 '42

DEGUELIN

Constituents of derris and other rotenone-bearing plants. H. L. Haller, L. D. Goodhue and H. A. Jones. Chem R 30:33-48 bibliog(77 references, p47-8) F '42

DEHUMIDIFIERS

Air conditioning improves furnace performance. F. C. Wood. il Steel 110:86, 89-90 F 9 '42

American pharmaceutical co. installs cooling and dehydration equipment. H. J. Bragger. flow diag il plan Heat & Ven 39:86-9 Ja '42

Colonial tanning company air conditions warehouse to prevent damage to patent leather. il Heat & Ven 39:52-4 Ja '42

Cure for damp basements. il Sheet Metal Worker 33:32 My '42

Dry blast for blast furnaces. D. Wolochow. Metal Prog 42:546+ O '42

Drying air by refrigeration. diag Power Pl Eng 46:101-2 O '42

Excess moisture absorbed from air in damp rooms; use of Dri-air powder. il Sci Am 167:125-6 S '42

Food Concentrates dehumidifying and conditioning unit. A. G. Harms. il Heat & Ven 39:76-7 Ja '42

Jones & Laughlin steel corporation installs air conditioning at its no. 1 blast furnace. E. K. Miller. il Heat & Ven 39:48-51 Ja '42

Libbey-Owens-Ford glass co.; humidity control for safety glass manufacture. L. T. Avery. flow diag il diag Heat & Ven 39:45-7 Ja '42

Minneapolis show case mfg. co. prevents condensation in space between show case windows. M. Figen. il Heat & Ven 39:28 Je '42

National photo company dehumidifies film drying room. Heat & Ven 39:39 Jl '42

99 and 44/100% dry air for circuit breakers. C. Thumim. il diags Power 86:240-2 Ap '42

Raymond laboratories, inc.; dehumidifiers to reduce moisture in permanent wave pad manufacturing. M. Figen. il Heat & Ven 39:35-6 Mr '42

DEHYDRATED foods. See Food, Dried

DEHYDRATED vegetables. See Vegetables, Dried

DEHYDRATION

Action of alkaline reagents on the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2120-3 S '42

Decomposition of certain acetylenic carbinols. A. F. Thompson, jr. and C. Margnetti. bibliog Am Chem Soc J 64:573-6 Mr '42

Dehydrated castor oil; abstract. J. D. Morgan. Paint Oil & Chem R 103:10 D 4 '41

Dehydrated castor oil; its history, chemistry, manufacture, and uses. H. C. Worsdall. bibliog il Can Chem & Process Ind 26:460-3 Ag '42

Dehydrating bunker C tar emulsion and coke-oven tar emulsion. C. J. Leuders. Gas Age 89:7 Je 18 '42

Dehydrating liquids and gases with granular adsorbents; Florite, alumina and silica gel. R. G. Capell and R. C. Amero. flow sheets Oil & Gas J 41:37-9 Je 18 '42

Dehydration of 1,5-hexadiene-3-ol to 1,3,5-hexatriene and 1,3-cyclohexadiene. L. W. Butz. Am Chem Soc J 64:1978-9 Ag '42

Elimination of sorption-desorption hysteresis in hydrous oxide systems. H. B. Weiser, W. O. Milligan and J. Holmes. bibliog J Phys Chem 46:586-96 My '42

Hydration of unsaturated compounds; the role of the oxonium complexes in the hydration of mesityl oxide and the dehydration of diacetone alcohol. D. Pressman, L. Brewer and H. J. Lucas. Am Chem Soc J 64:1122-8 My '42

DEHYDRATION—*Continued*

Infrared as an analytical tool: dehydration of silicic acid derived from feldspars. E. W. Koenig. bibliog Am Cer Soc Bul 20:447-50 D '41

Preparation and dehydration of 6-methoxy-*i*-norcholenyldiphenylcarbinol. B. Riegel, M. F. W. Dunker and M. J. Thomas. Am Chem Soc J 64:2115-20 S '42

See also

Alcohol—Dehydration
Drying
Drying (fruits and vegetables)
Evaporation
Gas, Natural—Dehydration

DEHYDRATION of fruits and vegetables. See Drying (fruits and vegetables)

DEHYDRATORS. See Drying apparatus

DEHYDROASCORBIC acid

Color reaction for dehydroascorbic acid useful in the determination of vitamin C. J. H. Roe and C. A. Kuether. Science 95:77 Ja 16 '42

DEHYDROCAMPESTEROL

7-Dehydrocampesterol, a new provitamin D. W. L. Ruigh. bibliog Am Chem Soc J 64:1900-2 Ag '42

DEHYDROCHOLESTEROL

7-Benzoxysterols and their use in the preparation of 7-dehydrosterols. O. Wintersteiner and W. L. Ruigh. bibliog Am Chem Soc J 64:1177-9 My '42

Oxidative destruction of vitamin D. J. C. Fritz and others. bibliog Ind & Eng Chem 34:979-82 Ag '42

DEHYDROGENATION

Catalytic dehydrogenation and condensation of aliphatic alcohols. V. I. Komarewsky and J. R. Coley. bibliog Am Chem Soc J 63:700-2, 3269-70 Mr, D '41

Houdry two-stage dehydrogenation catalytic process for manufacture of butadiene. C. H. Thayer, R. C. Lassiat and E. R. Lederer. il Nat Pet N 34 pt 2:R305-6 S 30 '42; Same. Automotive & Aviation Ind 87:30-2 O 15 '42; Same. Pet Eng 14:29-30 O '42; Same. Rubber Age 52:39-41 O '42; Same. Mech Eng 64:777-8 N '42; Same. Chem & Met Eng 49:116-17 N '42

Influence of external factors in catalytic reactions; dehydrogenation of ethyl alcohol with copper catalyst. T. J. Suen, T. P. Chien and P. S. Chu. bibliog Ind & Eng Chem 34:674-6 Je '42

Make butadiene by catalytic dehydrogenation of butane. W. T. Ziegenhain. diags Oil & Gas J 41:30-1 Ag 20 '42

Production of butadiene by single-stage catalytic dehydrogenation of butane. V. I. Komarewsky and C. H. Reisz. flow sheet bibliog diag Oil & Gas J 41:33, 37, 39 S 17 '42

Studies in dehydrogenation; spirocyclopentane-1,1'-tetralin. M. Levitz and M. T. Bogert. Am Chem Soc J 64:1719-20 Jl '42

DEHYDROISOANDROSTERONE

Sterols; the conversion of 5-pregnen-3(β)-ol-20-one to dehydro-iso-androsterone. R. E. Marker and others. Am Chem Soc J 64:1276-80 Je '42

DEHYDROSTIGMASTEROL

7-Benzoxysterols and their use in the preparation of 7-dehydrosterols. O. Wintersteiner and W. L. Ruigh. bibliog Am Chem Soc J 64:1177-9 My '42

DEHYDROTIGOGENONE

Sterols; sapogenins; the bio-reduction of 4-dehydrotigogenone. R. E. Marker and others. bibliog Am Chem Soc J 64:818-22 Ap '42

DE-INKING. See Waste paper

DE LAND, Florida

Small pool clicks; De Land, shows way. Business Week p20+ Jl 25 '42

DELAWARE

Economic conditions

Delaware income statistics; compiled from income tax returns for 1936, 1937, and 1938. v 1 197p pa 50c Bur. of econ. and business research, Univ. of Delaware, Newark, Del. '41

DELAWARE and Hudson company

Annual report. Comm & Fin Chr 155:1508 Ap 13 '42

Railroad bondholders urged to appear at Senate hearing on McLaughlin bill. Comm & Fin Chr 156:513 Ag 10 '42

DELAWARE and Hudson railroad

Annual report. Comm & Fin Chr 155:1508 Ap 13 '42

D. & H. has a plan; to ask holders to accept part cash and new securities for bonds maturing next May. Business Week p98-9+ N 7 '42

DELAWARE aqueduct. See Aqueducts

DELAWARE, Lackawanna and western railroad

Acquisition of control of the Greene railroad. Comm & Fin Chr 156:602 Ag 17 '42

Company upheld by Court of appeals on tax liability. Comm & Fin Chr 15:1509 Ap 13 '42

1941 reviewed. Comm & Fin Chr 155:917 Mr 2 '42

Quandary for Lackawanna bondholders; liability for income taxes of leased lines creates problem. A. Jansen. Barron's 22:19-20 Ap 27 '42

Railroad securities; decision, finding Delaware, Lackawanna & Western not liable for federal income taxes on rental income of leased lines. Comm & Fin Chr 155:1525 Ap 16 '42

Readjustment plan asked for road. Comm & Fin Chr 156:1046 S 21 '42

Securities of subsidiaries bought below par. Comm & Fin Chr 155:360 Ja 24 '42

U.S. starts tax suits against road and two leased lines. Comm & Fin Chr 156:1236 O 5 '42

DELEGATION of powers. See Constitutional law

DELEHANTY institute

Cops to plumbers to welders. Fortune 26:26 Jl '42

DELIGNIFICATION. See Lignin

DELIVERY of goods

Accounting plan brings better use of trucks; standing orders and bills, etc. prepared in advance save driver-salesman's time. Am Business 12:24 O '42

Delivery cut; ODT restrictions on use of store trucks. Business Week p46 My 2 '42

Delivery, for a fee; department stores seize on chance to defrill their services. Business Week p62-3 F 14 '42

Deliverymen balk; union in Pittsburgh demanding that year's work be guaranteed. Business Week p65-6 F 21 '42

Freer deliveries. Business Week p48-9 Je 6 '42

Government approves delivery service pools; dairies urged to combine local deliveries. Food Ind 14:78 My '42

Maximum effectiveness from private trucks; with cost data. G. W. Laurie. Nat Pet N 34:28+ F 4 '42

Rationalising retail deliveries. Economist 142:51 Ja 10 '42

United delivers the goods. Fortune 25:22+ Je '42

United Kingdom delivery system pooled. For Comm W 6:17+ F 28 '42

See also

Coal delivery
Ice cream delivery
Milk delivery
Newspapers—Delivery
Oil delivery

DELTAS

See also

Mississippi river—Delta

DEMAGNETIZATION

Demagnetizing factors of rods. R. M. Bozorth and D. M. Chapin. charts J Ap Phys 13: 320-6 My '42

DEMAND factor

Maximum demand and peak responsibility; how existing defects might be overcome. D. J. Bolton. Elec R (Lond) 130:783-7 Je 19 '42

DEMAND meters

Demand meters, and totalizing relays; measuring nonelectrical as well as electrical quantities. H. M. Witherow and E. J. Boland. il Gen Elec R 45:515-16 S '42
Insulates demand meter for primary connection. diags Elec W 117:1842 My 30 '42
Maximum-demand metering; a study of the timing and length of the integration period. D. J. Bolton. diags Inst E E J 89 pt 2:95-108 Ap '42; Abstract. Elec R (Lond) 129: 665-8 D 12 '41; Discussion. Inst E E J 89 pt 2:108-20 Ap '42
Measurement of maximum demand. P. M. Lincoln. bibliog diags Elec Eng 61:Trans 57-62 F '42
Theoretical possibilities in an internally heated bimetal type of thermal watt-demand meter. E. Lynch. bibliog il diags Elec Eng 61:Trans 764-70 O '42

Testing

Contact-making devices for testing demand meters; illustrations and wiring diagrams. Elec W 118:798 S 5 '42
Torque tester for register motors. diag Elec W 118:1486 O '42

DEMEROL

Demerol comes closest to being longsought safe substitute for morphine; abstract. D. R. Climenko and others. Science 95:sup8 Ap 10 '42

DEMETHYLATION

Demethylation of pectin and its effect upon jellying properties; abstract. G. L. Baker and M. W. Goodwin. Food Ind 14:109-10 Je '42

DEMOBILIZATION

Re-employment and postwar planning. J. N. Andrews. Ann Am Acad 220:186-92 Mr '42

DEMOCRACY

American thinking and writing. J. M. Bachelor and R. L. Henry. 565p $2.25 Appleton-Century '42
Anglosaxony: a league that works. W. Lewis. 75p pa 75c Ryerson press '41
Bread and power. E. T. Brown. 278p 10s 6d W. Hodge and co, London; $3.50 S. J. Reginald Saunders, 84 Wellington st, W, Toronto '40
Challenge of democracy. T. P. Blaich, J. C. Baumgartner and R. J. Stanley. 593p $2.20 Harper '42
Constitutional government and democracy; theory and practice in Europe and America. C. J. Friedrich. rev ed 695p bibliog (p595-670) $4 Little '41
Democracy and collectivism; review of Coming showdown, by C. Dreher; and Making of tomorrow, by R. De Roussy de Sales. R. E. Freeman. Mech Eng 64:676-7 S '42
Democracy and military power. S. B. McKinley. new & enl ed 350p bibliog(p345-50) $3 Vanguard press, New York '41
Democracy and the closed shop. J. Chamberlain. Fortune 25:64-5+ Ja '42
Democracy and the social sciences. R. Jones. Special Lib 32:365-70 D '41
Democracy days. H. Paulmier and R. H. Schauffler, eds. 375p bibliog(p373-5) $2.50 Dodd '42
Democracy in its struggle looks to the engineer. D. D. Ewing. Elec Eng 61:402-5 Ag '42
Democracy, its failings and its future. H. L. S. Samuel. 24p pa 30c Oxford '41
Democracy, liberty, and property; readings in the American political tradition. F. W. Coker, ed. 881p $4.25 Macmillan '42
Democracy; the threatened foundations. R. V. Lennard. 121p $1.25 Macmillan '42
Democratic manifesto. E. Reves. 144p $1.50 Random house, 20 E. 57th st, New York '42
Democratic-Republican societies, 1790-1800. E. P. Link. 256p bibliog(p213-42) $2.75 Columbia univ. press '42
Destiny of western man. W. T. Stace. 322p $3 Reynal & Hitchcock, New York '42
Dictator isms and our democracy; nazism, fascism, communism, made in America brands. G. Quitman and W. H. Allen. 55p pa 25c Inst. for public service, New York '40
Free market and the future. A. W. Jones. Fortune 25:98-9+ Ap '42
Freeing democracy; a new world challenge. C. Macdonald and G. Macdonald. 106p pa $1 New world press, New York '42
Give me liberty. F. V. Harper. 156p $1.12 Wheeler pub. co, Chicago '42
Good inheritance: the democratic chance. N. Cousins. 318p bibliog(p298-311) $3 Coward-McCann, New York '42
Ideas for the ice age; students in a revolutionary era. M. Lerner. 432p $3 Viking press '41
Is democracy good business? E. G. Nourse. Trusts & Estates 75:122-4 Ag '42
John Locke and the doctrine of majority-rule. W. Kendall. (Studies in the social sciences v 26, no 2) 141p bibliog(p137-41) $2; pa $1.50 Univ. of Illinois press, Urbana '41
Last full measure of devotion. F. R. Phillips. Edison Elec Inst Bul 9:439-40+ N '41
Let's try thinking; a handbook of democratic action. I. Deering. 199p bibliog(p195-9) $2.50; pa $1.50 Antioch press, Yellow Springs, Ohio '42
Liberty and progress in the American way. C. Crane. Min & Met 23:327-30 Je '42
Liberty, equality, fraternity; essays and addresses on the problems of today and tomorrow. N. M. Butler. 240p $2.50 Scribner '42
New belief in the common man. C. J. Friedrich. 345p bibliog(p319-35) $3 Little '42
On the agenda of democracy. C. E. Merriam. 135p $1.50 Harvard univ. press '41
Techniques of democracy. A. M. Bingham. 314p $3 Duell, Sloan & Pearce, 270 Madison av, New York '42
They shall not perish. J. W. Hughes. 56p pa 75c North River press, New York '42
Treasury of democracy. N. Cousins, ed. 306p $3 Coward-McCann, New York '42
Unfinished task: economic reconstruction for democracy. L. Corey. 314p $3 Viking press '42
U.S. must protect essential freedoms. A. L. M. Wiggins. Comm & Fin Chr 155:1711 Ap 30 '42
War and peace; debts and democracy; difficulties, possibilities, objectives. E. Schram. il Dun's R 50:5-9+ My '42; Same cond. Comm & Fin Chr 155:1521+ Ap 16 '42
We live to be free. E. G. Sterne. 298p bibliog(p285-9) $2 Farrar '42
What democracy means to me. N. J. Damoose. Water Works & Sewerage 89: 216-19 My '42
What democracy meant to the Greeks. W. R. Agard. 278p bibliog(p267-70) $3 Univ. of North Carolina press, Chapel Hill '42
Whose revolution? a study of the future course of liberalism in the United States. I. D. Talmadge, ed. 296p $2.50 Howell, Soskin, New York '41
Would bar regulations threatening democratic fundamentals. R. W. Moore. Comm & Fin Chr 154:1451 D 11 '41

See also
Liberty

Bibliography

Annotated and selected list of books about democracy. H. W. Hart, comp. 26p U.S. Lib. of Congress, Washington '41

DEMOCRATIC party

New York and the next president; control of both major parties in 1944 is at stake in battle for governorship. il Fortune 26: 84-7+ S '42

DEMONSTRATIONS. See Department stores—Manufacturers' demonstrations; Salesmanship—Demonstrations

DENATURATION of proteins. See Proteins—Denaturation

DENATURED alcohol. See Alcohol, Denatured

DENDROCTONUS piceaperda. See spruce bark beetles

DENIM

What to do about denim stocks; a case study of inventory problems in the manufacture of staple finished goods. H. S. Davis. 34p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

DENMARK

See also

Bonds, Government—Denmark

Wages—Denmark

Commerce

Foreign trade in 1941. For Comm W 7:20 My 23 '42

Economic conditions

Denmark in 1941. Economist 142:sup16-17 Mr 14 '42

DENSITOMETERS

Agfa Ansco photoelectric densitometer. diag R Sci Instr 13:406 S '42

Agfa Ansco transmission densitometer for measuring transmission of photographic films. il R Sci Instr 13:301-2 Jl '42

Electromagnetic densitometer. A. R. Richards. diags Ind & Eng Chem Anal ed 14:595-6 Jl 15 '42

How to make and use an inexpensive densitometer. J. E. Sampsell. il Am Phot 36:35 O '42

Precision direct reading densitometer. M. H. Sweet. il Opt Soc Am J 32:400 Jl '42

Precision direct-reading densitometer. M. H. Sweet. bibliog il diags Soc Motion Picture Eng J 38:148-70; Discussion. 171-2 F '42; Abstract. Electronics 15:68 Jl '42

Some photometric instruments used in X-ray diffraction and spectrographic methods of analysis. J. W. Ballard, H. I. Oshry and H. H. Schrenk. pls U S Bur Mines Rep of Invest 3638:1-13 '42

Stop calibration of photographic objectives; principle of null-indicating densitometer adapted to measurement of camera lens iris settings. E. W. Silvertooth. il diag Soc Motion Picture Eng J 39:119-22 Ag '42

Voltage regulator for a densitometer lamp. S. L. Parsons. bibliog diags Opt Soc Am J 32:153-5 Mr '42

DENSITY. See Specific gravity

DENTAL alloys. See Dental amalgams

DENTAL amalgams

Excessive expansion of dental amalgams. Franklin Inst J 232:579 D '41

Significance of urinary mercury; mercury absorption from mercury-bearing dental fillings and antiseptics. E. D. Storlazzi and H. B. Elkins. J Ind Hygiene 23:464-5 D '41

DENTAL caries. See Teeth—Diseases and defects

DENTAL hygiene

Dental health. Published quarterly by National dental hygiene association, 934 Shoreham bldg, Washington, D.C.

Evaluating dental health programs. J. W. Knutson. bibliog Pub Health Rep 57:1287-1306 Ag 28 '42

Report of a dental program, Feb. 1941, through Jan. 1942; Thilmany pulp & paper co. H. H. Leedke Ind Med 11:400-2 Ag '42

DENTAL materials

Acrylic resins for dentures. W. T. Sweeney, G. C. Paffenbarger and J. R. Beall. bibliog il Mod Plastics 19:61-7+ Ap '42

Physical properties of dental materials. W. Souder and G. C. Paffenbarger. il diags U S Nat Bur Stand Circ C433:1-222 bibliog(p209-14); 75c Supt. of doc. '42

Substitute for tinfoil in curing dental resins. Franklin Inst J 234:277-8 S '42

See also

Teeth, Artificial

DENTAL research

Grants-in-aid of the American college of dentists. Science 95:268 Mr 13 '42

DENTAL service

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1195-1209, 1235-75 Ag 14-21 '42

Evaluating dental health programs. J. W. Knutson. bibliog Pub Health Rep 57:1287-1306 Ag 28 '42

DENTAL service, Industrial

Dental infections and the industrial worker. E. Goldhorn. Nat Safety N 45:34, 36+ Ja '42

Dental services in industry; observations on their effects in the reduction of absenteeism. H. A. Hooper. bibliog Ind Med 11:157-62 Ap '42

Report of a dental program, Feb. 1941 through Jan. 1942; Thilmany pulp & paper co. Ind Med 11:400-2 Ag '42

DENTAL surveys

Dental status of adult male mine and smelter workers. H. P. Brinton, D. C. Johnston and E. O. Thompson. bibliog Pub Health Rep 57:218-28 F 13 '42

Evaluating dental health programs. J. W. Knutson. bibliog Pub Health Rep 57:1287-1306 Ag 28 '42

DENTIFRICES

All-America package competition; award to J. C. Eno (U.S.) limited; toothpaste tube filling, closing and sealing equipment. il Mod Packaging 15:220-1+ Ap '42

Advertising

Pepsodent back in newspapers; new comic color technique. il Ptr Ink 198:24 Mr 20 '42

DENTISTRY

American textbook of prosthetic dentistry in contributions by eminent authorities. L. P. Anthony, ed. 7th ed rev 926p $11 Lea & Febiger, Philadelphia '42

Basic principles in dentistry. V. H. Sears. 195p $3.50 Pitman '42

Dentistry as a professional career. 72p bibliog (p71-2) Council on dental education, Am. dental assn, 212 E. Superior st, Chicago '41

Internal medicine in dental practice. B. I. Comroe, L. H. Collins, jr. and M. P. Crane. 2d ed 543p $5.50 Lea & Febiger, 600 S. Washington sq, Philadelphia '42

Juvenile dentistry. W. C. McBride. 3d ed rev 414p $6 Lea & Febiger, Philadelphia '41

History

Professional dentistry in American society, a historical and social approach to dental progress. A. J. Asgis. ltd ed 260p $4.50; student ed 175p $3.50 Clinical press, 1123 Broadway, New York '41

DENTISTS' chairs

Dental chair is fully adjustable by automatic means. il Sci Am 167:176-7 O '42

DENTISTS' offices

Lighting

Banked units light dental surgery. F. Sell. il Elec W 118:1152+ O 3 '42

DENVER

Industries

Ships from Denver; contracts to fabricate hulls of naval escort vessels. Business Week p22+ D 13 '41

Rapid transit

How mass transportation is conducted in Denver. il Mass Transportation 38:96-100 Ap '42

DENVER & Rio Grande western railroad

Bondholders fail to get interest. Comm & Fin Chr 156:1605 N 2 '42

Change in plan asked. Comm & Fin Chr 156:779 Ag 31 '42

DENVER & Rio Grande western railroad—*Continued*
City bank farmers trust co. wants plan changed. Comm & Fin Chr 156:1236 O 5 '42
Insurance committee submits plan to ICC. Comm & Fin Chr 154:1052 N 15 '41
I.C.C. submits new plan. Ry Age 113:179 Ag 1 '42; Same. Comm & Fin Chr 156:427 Ag 3 '42
Missouri Pacific railroad wants to retain voting power after reorganization. Comm & Fin Chr 154:1698 D 27 '41
New ICC plan for Denver & Rio Grande; latest proposal has good prospects of adoption. A. Jansen. Barron's 22:19-20 Ag 17 '42
Railroad securities; final ICC plan of reorganization. Comm & Fin Chr 156:445 Ag 6 '42
RFC asks modification of reorganization plan. Comm & Fin Chr 156:1046-7 S 21 '42
Request for bids for equipment trust certificates. Comm & Fin Chr 155:2365 Je 22 '42

DENVER tramway corporation
Denver tramway corporation. Comm & Fin Chr 156:1515+ O 29 '42

DEODORANTS
Deodorant sprays; what are manufacturers doing to replace scarce formaldehyde. Soap & San Chem 18:88-9+ My '42
Neutralizing the odor of reclaimed rubber. Rubber Age 51:43 Ap '42
New odorless deodorant developed by Dr J. H. Dalbey. Soap & San Chem 18:109 N '42

DEODORIZATION
Odor removal at hog station. il Heat & Ven 39:58 My '42
Ozone in ventilation and air conditioning. J. A. Robinson. il Heating-Piping 13:759-60 D '41

See also
Paint—Odor removal
Sewage disposal—Odor removal
Water purification—Taste and odor removal

DEODORIZERS
Deodorizer of new design, for home, office. il Sci Am 166:196-7 Ap '42

DEPARTMENT stores
Department store in Texas; White House dry goods co, Beaumont. il plans Arch Rec 92:53-6 O '42
Department stores start fight on fake wholesale and retail sales outlets. Ptr Ink 197: 33-4+ N 14 '41
Emergency equipment for department store. il Power Pl Eng 46:109 Jl '42
Hero Smith on Father's day; liability and defense of department stores in negligence cases. H. S. Moser. Nat Underw 46:17+ Ag 27 '42
Merchandising techniques. E. B. Hogadone and D. K. Beckley. 263p bibliog(p257-8) $1.75 McGraw-Hill '42
Product display in department stores. G. Cole. il Mod Packaging 15:71-3+ D '41
28 shop, Marshall Field & Co., Chicago. il plan Arch Forum 75:446-8 D '41
What price volume? E. A. Burnham. Harvard Business R 20 no 3:327-35 [Ap] '42
Why department and variety store sales showings differ. Barron's 22:12 Jl 20 '42

See also
Macy, R. H., and company
Marketing—Department store outlets
Marshall Field and company
Store buildings

Accounting

Comments on Lifo for department stores. R. E. North. J Account 73:311-13 Ap '42

Advertising

Macy's campaigns to deter needless sales. il Adv & Sell 35:33 Je '42
Promoting the linen, domestics, and blanket department. V. M. Putter. J Retailing 17: 105-8 D '41

Air conditioning

Simplification stressed in air conditioning system for a St Louis department store. W. P. Norris. il Heat & Ven 39:19-20 Je '42

Employees

How the department store can improve its personnel relations. J Retailing 18:2-4+ F '42
Keep open shop; settlement of the five-month strike of San Francisco department store clerks. Business Week p66 F 28 '42
Shorter workweek in department stores; abstract. G. R. Rowe. Management R 30:415-16 N '41
Stores go on a five-day week. D. K. Beckley. Personnel J 21:171-4 N '42
Stores hunt help. Business Week p68 O 3 '42
Survey of department-store training methods. C. J. Corbin. J Retailing 18:16-21 F '42
To whom do a department's operating figures belong? I. Goldenthal. J Retailing 18:24-5 F '42

Exhibits

America's modern plastics exposition; department store show tours country. il Mod Plastics 19:86 D '41
Victory center; Marshall Field and company, Chicago, exhibit of wartime activities. il Am Business 12:16-17 F '42

Finance

Department store sales at record in 1941 although taxes cut earnings, board finds. Comm & Fin Chr 155:2213 Je 11 '42
Financial ratios for department stores by size (tangible net worth) classes. R. A. Foulke. Dun's R 49:6, 10 D '41
Operating results of department and specialty stores in 1941, by C. A. Bliss; Department store financial requirements, 1920-1940, by P. Hunt and A. R. Koch. (Bur. of business research bul. 115) 62p pa $2.50 Harvard univ, Graduate school of business administration, Boston '42; Summary. Business Week p61 Jl 11 '42

Gift wrapping

Deep in the heart of Texas. il Mod Packaging 15:47+ Je '42
Department store gift wraps. il Mod Packaging 15:45-6 Je '42

Layout

Davison Paxon department store, Atlanta, Ga. modernization. il plans Arch Rec 91: 45-6 F '42
Remodeled sales floor; L. S. Ayres store, Indianapolis. il plan Arch Forum 76:204-6 Ap '42

Libraries

Employee libraries. M. Scherer. J Retailing 18:22-3 F '42

Lighting

Light for a department store. il Elec West 88:60 Ap '42

Management

Dispersion of consumer purchases among competing retail outlets. H. D. Wolfe. J Business 15:160-5 Ap '42
Retail store organization. G. E. Brown. Personnel J 21:34-40 My '42
Retailers' riddles; department store labor problem and customer service. Business Week p42-4 Ja 24 '42
See also
Returned goods

Manufacturers' demonstration

Do's and don't's for staging department store demonstrations. L. Valenstein. il Sales Management 50:22-4+ Ja 15 '42

Purchasing

Group-order purchasing of staples. R. H. Wilson. J Retailing 17:109-11+ D '41
Macy's explores; buyer makes a circuit of middle western markets. Business Week p52 N 22 '41

Restaurants

Restaurant, Charles A. Stevens department store, Chicago. il plan Arch Forum 75:374-6 N '41

DEPARTMENT stores—*Continued*

Self service

Self-service experiments in department stores. V. P. Sylbert. J Retailing 18:74-81 O '42

Service

Customer services under war conditions. J. Steagall, V. Sylbert and S. Victor. J Retailing 18:49-56 Ap '42

Delivery, for a fee; department stores seize on chance to defrill their services. Business Week p62-3 F 14 '42

Statistics

Department store inventories; stocks and sales, by major departments, Oct. 1940 and 1941. Fed Res Bul 28:19-20 Ja '42

Department store inventories; stocks and sales, by major departments, Jan. 1941 and 1942. Fed Res Bul 28:324-5 Ap '42

Department store sales at record in 1941 although taxes cut earnings, board finds. Comm & Fin Chr 155:2213 Je 11 '42

Department store sales; Richmond, San Francisco and Philadelphia Federal reserve districts. Survey of Cur Business 22:25-6 Ag '42

Department store stocks and sales, by major departments, April 1941 and 1942. Fed Res Bul 28:647-8 Jl '42

Monthly indexes of sales and stocks, yearly 1938-1941; Weekly index of sales, Nov. 1938-Dec. 1941; Sales and stocks by major departments, Nov. 1941. Fed Res Bul 28:64 Ja '42 [cont monthly]

Sales by Federal reserve districts and by cities in terms of percentage change from corresponding period of preceding year. Fed Res Bul 28:64 Ja '42 [cont monthly]

Stock

Group-order purchasing of staples. R. H. Wilson. J Retailing 17:109-11+ D '41

Ideas developed by department stores to meet wartime shortages. Ptr Ink 200:36 Jl 17 '42

New lines, or else. Business Week p62-4+ Ag 8 '42

DEPENDENCY, Old age. See Old age

DEPOLARIZATION

Quenching and depolarization of mercury resonance radiation by the rare gases. L. O. Olsen. Phys R 60:739-42 N 15 '41

Quenching and depolarization of resonance radiation by collisions with molecules of a foreign gas; remarks on papers by Ellett, Olsen, and Petersen and by Olsen. S. Mrozowski. bibliog Phys R 61:379-80 Mr 1 '42

DEPOLARIZATION (light)

Depolarization of the Tyndall-scattered light of bentonite and ferric oxide sols. C. R. Hoover, F. W. Putnam and E. G. Wittenberg. bibliog il diag J Phys Chem 46:81-93 Ja '42

DEPOLARIZERS (chemistry)

Effect of surface-active agents on electroörganic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46:42-51 Ja '42

DEPOLYMERIZATION

Depolymerization of cellulose in viscose production; effect of manganese on depolymerization rate. F. E. Bartell and H. Cowling. bibliog Ind & Eng Chem 34:607-12 My '42

DEPOSIT insurance. See Banks and banking—Guaranty of deposits

DEPOSITS, Bank. See Bank deposits

DEPOSITS, Safe. See Safe deposits

DEPOSITS of ores. See Ore deposits

DEPRECIATION

Accelerated depreciation. V. H. Stempf. N A C A Bul 23:965-79 Mr 15 '42

Accounting for depreciation. J. B. Bailey. J Account 74:350-2 O '42

Activity factor in depreciation. E. S. Reno. J Account 74:227-9 S '42

Condition-percent tables for depreciation of unit and group properties. R. Winfrey. Iowa Eng Exp Sta (Ames) Bul 156:1-177 '42 (pa $3)

Depreciation adjustments to conform with amounts allowed as tax deductions. J Account 74:454-5 N '42

Depreciation and capital replenishment. F. M. Dannenberg. J Account 73:340-3 Ap '42; Discussion. C. M. Kearney. 73:460-1 My '42

Depreciation and maintenance of mechanical handling plant. S. H. Withey. Mech Handling 29:90-1, 109-10, 132-4, 153-4, 171-2 My-S '42

Depreciation of group properties. R. Winfrey. diags Iowa Eng Exp Sta (Ames) Bul 155: 1-131 '42

Depreciation of installations. S. H. Withey. Electrician 128:245-6 Mr 20 '42

Depreciation problem during war crisis. F. B. Warren. Pub Util 29:149-54 Ja 29 '42

Detroit Edison co.; deduction for depreciation of donated property. A. J. Bruen. J Account 73:277-8 Mr '42

Equipment replacement at proper time saves money. Oil & Gas J 41:67 S 10 '42

Fundamental aspects of the depreciation problem; symposium. M. R. Scharff and others. Am Soc C E Proc 67:1612-37 N '41; Discussion. 67:1715-21, 1865-78; 68:343-8, 447-74, 583-92, 997-1000, 1155-8, 1823-5 N-D '41, F-Ap, Je, S, D '42

Group system of depreciation. G. Carroll. N A C A Bul 23:473-97 D 15 '41

Large depreciation reserve for ready mix equipment; Shaw coal and material co. L. Fanald. il Rock Prod 45:72 S '42

Maintenance and its effect on depreciation reserves. L. V. Smoot. il Edison Elec Inst Bul 9:447-50 N '41

Profits or capital tax? inadequate depreciation charges lead to dissipation of capital. F. M. Dannenberg. Trusts & Estates 74: 19-21 Ja '42

Public utility depreciation practice. H. G. Guthmann. Harvard Business R 20 no 2: 213-22 [Ja] '42

See also

Cost accounting

DEPTH sounding. See Sounding

DERAILMENTS. See Railroads—Accidents

DERMACENTOR andersoni

Rickettsia-like organism from normal dermacentor andersoni Stiles. E. A. Steinhaus. bibliog Pub Health Rep 57:1375-7 S 11 '42

Toxic principle in eggs of the tick, dermacentor andersoni Stiles. E. A. Steinhaus. Pub Health Rep 57:1310-12 Ag 28 '42

DERMATITIS. See Skin—Diseases

DERRICKS, etc. See Cranes, derricks, etc.

DERRICKS, Oil well

Load imposed on derrick. G. M. Stearns. diags Oil & Gas J 41:47 Jl 23 '42

Portable drilling and servicing units and steel conservation. J. Moon. il Pet Eng 13: 42, 44, 46 My '42

Report of A.P.I. committee on the standardization of standard rigs and derricks. Am Pet Inst Proc 22(4):120-4 '41

DERRIS

Chronic toxicity of derris. A. M. Ambrose, F. Deeds and J. B. McNaught. bibliog Ind & Eng Chem 34:684-9 Je '42

Constituents of derris and other rotenone-bearing plants. H. L. Haller, L. D. Goodhue and H. A. Jones. Chem R 30:33-48 bibliog(77 references, p47-8) F '42

Cultivation of derris in the Netherlands Indies. For Comm W 6:19 Ja 3 '42

Derris root produced in French Indochina. For Comm W 6:17 Ja 17 '42

Analysis

Determination of rotenone in derris root. H. E. Coomber, J. T. Martin and S. H. Harper. diags Soc Chem Ind J 61:110-12 Jl '42

DERRIS robusta

Active principles of leguminous fish-poison plants; robustic acid. S. H. Harper. Chem Soc J p181-2 F '42

DES ARC, Arkansas

Bridges

Rebuilding a suspension bridge. J. Strom. il Civil Eng 12:203-5 Ap '42

DESERT flora

Succulent plants of New and Old World deserts. E. J. Alexander. 64p pa 50c New York botanical garden, Bronx park, New York '42

DESERTS

Aircraft maintenance problems in North Africa. R. Toland. il S A E J 50:sup46-8 N '42

Desert alphabet; strange letters of stone found in sand wastes of southwestern Arizona. J. C. Coyle. il Sci Am 166:26-7 Ja '42

DE SEVERSKY, Alexander Procofieff, 1894-

Criticism of De Seversky's views of United States air force. D. R. Berlin. Steel 111:100 S 14 '42; Reply. 111:46 O 26 '42

DESICCATION. See Drying

DESIGN

Basic do's and don't's in applying plastic moldings. W. B. Hoey. il diags Machine Design 14:47-51 Ja '42

Conservation of critical materials in design; abstract. S. F. Voorhees. Heating-Piping 14:405-6 Jl '42

Design and redesign of ordnance materiel. J. B. Nealey. il Product Eng 13:568-72 O '42

Designing for materials conservation. il diags Product Eng 13:181-246 Ap '42

Designing to sell. il Sales Management 50:64, 66 F 1 '42 [cont monthly]

Designs on South America; North American designs should go into South American products. Barron's 22:5 F 2 '42

From industrial mobilization to war production. H. N. Gilbert. Harvard Business R 21 no 1:124-36 [S] '42

Functional design. C. M. Harder. Am Cer Soc Bul 21:174-6 Ag 15 '42

Furniture designed for today doubles sales for Dunbar. il Sales Management 50:18-19 Ap 1 '42

Industrial plastic parts; general design considerations. T. N. Willcox. il Product Eng 13:269-72 My '42

Models and analogues for solving design problems. E. N. Kemler. il diags Product Eng 13:660-1 N '42

Modern designs. Published in monthly numbers of Product engineering

Priorities take materials but Crane product designers are not stymied. il Sales Management 50:20-1 Ap 20 '42

Redesign, substitution, simplification, and standardization; Westinghouse electric and manufacturing company. D. R. Kellogg. Mech Eng 64:30-1 Ja '42; Abstract. Steel 110:72-3+ Ap 20 '42

War revolutionizing industrial design. F. W. Curtis. Comm & Fin Chr 156:106 Jl 9 '42

What the product designer should know about plastics. E. Furholmen. diags Mach 48:141-4 Mr; 199-203 Ap; 140-5 My; 140-4 Je; 148-51 Ag '42

See also

Airplanes—Design
Automobiles—Design
Bridge design
Concrete construction—Design
Locomotives—Design
Machinery—Design
Printing—Design
Steel construction—Design
Structural engineering—Design

Protection

See also

Patent laws and legislation

Study and teaching

Cooper union. il Arch Forum 77:6, 10 S '42

DESIGN, Architectural. See Architecture, Domestic—Designs and plans

DESIGN, Decorative

See also

Textile design
Textile printing

DESIGNERS' offices

Modern office for industrial designer. il diag plan Arch Forum 77:75-7 Jl '42

DESKS

All-America package competition; award to Shelbyville desk co.; corrugated shipping container. il Mod Packaging 15:214-15 Ap '42

Complete bookkeeping unit avoids moving the books; combined desk and fireproof safe. il Bankers Mo 59:302-3 Jl '42

Desks increase efficiency when used to organize work. A. M. Spinck. il Bankers Mo 58:556-7+ D '41

Interior details: dual desk, file cabinets support oak-edged desk top. il plans Arch Rec 92:55 S '42

Interior details: study unit. il plans Arch Rec 92:57 S '42

Secretaries accomplish more with well-planned desks. A. M. Spinck. il Bankers Mo 59:297-9 Jl '42

DESOXYCANTHARIDIN

Structure of cantharidine and the synthesis of desoxycantharidine. R. B. Woodward and R. B. Loftfield. bibliog Am Chem Soc J 63:3167-71 N '41

DESOXYCHOLATE citrate

Studies of the acute diarrheal diseases; new procedures in bacteriological diagnosis. A. V. Hardy, J. Watt and T. DeCapito. bibliog Pub Health Rep 57:521-4 Ap 10 '42

DESOXYCORTICOSTERONE

Atypical response of the rabbit to desoxycorticosterone acetate. A. E. Rakoff, K. E. Paschkis and A. Cantarow. bibliog Science 96:322 O 2 '42

Tetraacetyl-β-glucoside of desoxycorticosterone. W. S. Johnson. Am Chem Soc J 63:3238-9 N '41

DESOXYEPHEDRINE. See Pervitin

DESOXYHYDROXYCORTICOSTERONE

Effect of 11-desoxy-17-hydroxycorticosterone on renal excretion of electrolytes. M. Clinton, jr. and G. W. Thorn. Science 96:343-4 O 9 '42

DESSERTS

What sugar-rationing will do to buying habits; 1200 housewives report. J. Nathan. il Adv & Sell 35:22 Je '42

DESTROYERS, Torpedo boat. See Torpedo boat destroyers

DESUPERHEATERS

Automatic control insures process-steam reliability. C. R. Earle. diag Power 86:784-5 N '42

Hopkinsons steam-desuperheating apparatus. il diag Engineering 153:226-7 Mr 20 '42

Reducing and desuperheating equipment. il diags Engineer 173:188 F 27 '42

DESYLAMINE

Reaction of β-isodurylaldehyde cyanohydrin with phenylmagnesium bromide. A. Weissberger and D. B. Glass. bibliog Am Chem Soc J 64:1724-7 Jl '42

DETENEE (term)

Coining words is new job for the O.P.M. E. N. Teall. Inland Ptr 108:44-5 Ja '42

DETERGENCE. See Cleaning

DETERGENTS. See Cleaning compositions

DETONATION

Basic research on explosives. R. W. Lawrence. il diags Explosives Eng 20:131-6 My '42

Explosives and their military applications. R. H. Kent. il J Ap Phys 13:348-54 Je '42

See also

Automobile engines—Detonation
Explosives

DETONATORS

Commercial detonators; manufacture of lead styphnate and lead azide. S. G. Hill. Can Chem & Process Ind 26:18+ Ja '42; Abstract. Chem & Met Eng 49:152-3 Je '42

Safe opening and determination of construction of detonators. R. L. Grant and A. B. Coates. bibliog il diag U S Bur Mines Rep of Invest 3594:1-16 '41

DETONATORS, Electric
Complete detonation in well shooting. F. R. Cozzens. diag Pet Eng 13:54 Ap '42
Electrical connections for blasting. E. M. Diehl. diag Rock Prod 45:31 Jl '42
Permissible blasting units. L. C. Ilsley and A. B. Hooker. pls U S Bur Mines Rep of Invest 3593:1-14 '41

DETROIT
Detroit zoning ordinance amended to meet war needs. Eng N 129:sup170+ O 22 '42
Detroit's growth. Business Week p64 S 19 '42
Growth of a city government. L. D. Upson. 27p Detroit bur. of governmental research, 5135 Cass av, Detroit '42

See also
Housing—Detroit

Bridges

Concrete bridges over new traffic artery untangle congestion in Detroit. il Concrete 50:2-3+ Jl '42

Industries

Anger in Detroit; C.I.O. blames industry and Washington for disemployment. Business Week p58-9 Ja 17 '42
Detroit: five points for the record. Fortune 25:63 Mr '42
Detroit says it with arms. il Business Week p15-16 Je 13 '42
Detroit's potential. Business Week p35-6 Ag 8 '42
Detroit's war load. Business Week p16-18+ Ja 17 '42
Parts manufacturers pool production equipment; group of 25 key companies formed at Detroit. E. L. Warner, jr. Automotive Ind 85:19+ D 1 '41
Predict peak Detroit employment by 1943. Automotive & Aviation Ind 86:47+ Je 15 '42
Tool-die freeze. Business Week p76+ Ag 22 '42
War labor tangles. Business Week p62-3 F 28 '42

Lighting

Public safety in Detroit as affected by street lighting. L. J. Schrenk. diags Illum Eng 36:1219-37; Discussion. 1237-45 D '41

Politics and government

Growth of a city government. L. D. Upson. (School of public affairs and social work of Wayne univ, Report 36) 27p pa 25c Detroit bur. of governmental research, Detroit '42

Rapid transit

Workers' gasoline; Detroit fears breakdown in transportation. il Business Week p17-18 My 30 '42

Water supply

Administrative problems of water works in wartime. L. G. Lenhardt. Am Water Works Assn J 34:1196-1201 Ag '42; Excerpts. Eng N 129:103 Jl 16 '42

DETROIT Edison company
Earnings, 1938-1941. Comm & Fin Chr 155:917 Mr 2 '42

DETROIT national fire insurance company
Queen purchases capital. Nat Underw 45:12 D 25 '41

DETROIT stock exchange
Monthly range of prices, 1941; tabulation. Comm & Fin Chr 155:474-5 Ja 29 '42
Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

DEUTERIUM
Loss of energy of hydrogen ions in traversing various gases. C. M. Crenshaw. diags Phys R 62:54-7 Jl 1 '42
Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42
Mobilities in some free electron gases. W. H. Bennett and L. H. Thomas. Phys R 62:41-7 Jl 1 '42
Photodisintegration of beryllium and deuterium. F. E. Myers and L. C. Van Atta. bibliog diags Phys R 61:19-22 Ja 1 '42
Scattering of protons by deuterium. R. F. Taschek. Phys R 61:13-17 Ja 1 '42
Use of deuterium as a tracer in the Claisen rearrangement. G. B. Kistiakowsky and R. L. Tichenor. bibliog Am Chem J 64:2302-4 O '42

See also
Hydrogen—Isotopes

Analysis

Molecular dissymmetry due to symmetrically placed hydrogen and deuterium; the attempted resolution of 4 : 4'-dibromo-2 : 3 : 5 : 6-tetradeuterobenzhydrylamine; a method for the determination of deuterium in organic compounds. G. R. Clemo and G. A. Swan. diag Chem Soc J p370-4 My '42

DEUTERIUM chloride. See Hydrochloric acid—Deuterium chloride

DEUTERIUM compounds
Exchange and transfer equilibria of acids, bases, and salts in deuterium-protium oxide mixtures; the ion product constant of deuterium oxide. R. W. Kingerley and V. K. LaMer. bibliog Am Chem Soc J 63:3256-62 D '41
Molecular dissymmetry due to symmetrically placed hydrogen and deuterium; the attempted resolution of 4 : 4'-dibromo-2 : 3 : 5 : 6-tetradeuterobenzhydrylamine; a method for the determination of deuterium in organic compounds. G. R. Clemo and G. A. Swan. diag Chem Soc J p370-4 My '42
Near ultraviolet absorption spectrum of monodeuterobenzene. C. A. Beck and H. Sponer. bibliog il J Chem Phys 10:575-81 S '42
Preparation of several deuterium derivatives of pyrrole. F. A. Miller. bibliog Am Chem Soc J 64:1543-4 Jl '42
Synthesis of heavy *dl*-adrenaline. G. R. Clemo and G. A. Swan. pl diag Chem Soc J p395-7 Je '42
Vibrational spectra of pyrrole and some of its deuterium derivatives. R. C. Lord, jr. and F. A. Miller. bibliog J Chem Phys 10:328-41 Je '42

DEUTERIUM oxide. See Water—Heavy water

DEUTERONS
Artificial radioactive isotopes of thallium, lead, and bismuth. K. Fajans and A. F. Voigt. Phys R 60:619-25 N 1 '41
Distribution in angle of protons from the D-D reaction. H. P. Manning and others. diags Phys R 61:371-4 Mr 1 '42
Induced color in crystals by deuteron bombardment. J. M. Cork. Phys R 62:80-1 Jl 1 '42
Thick-target yield of Na^{24} under deuteron bombardment. C. L. Bailey and J. H. Williams. bibliog Phys R 61:539 Ap 1 '42
Use of uranium lead in the assignment of artificial radioactive isotopes. K. Fajans and A. F. Voigt. bibliog Phys R 60:626-7 N 1 '41
Virtual state of the deuteron. L. Hulthén. bibliog Phys R 61:671 My 1 '42
Yield of neutrons from deuterons on carbon. C. L. Bailey, M. Phillips and J. H. Williams. Phys R 62:80 Jl 1 '42

DEVELOPMENT work. See Electric utilities—Development work

DEVOE and Raynolds company, inc.
Annual report. Comm & Fin Chr 155:501 Ja 31 '42
Shares selling below net cash assets. H. Lawrence. Barron's 22:20 F 2 '42
Thumbnail stock appraisal. Mag of Wall St 71:135 N 14 '42

DEVONIAN period. See Geology, Stratigraphic—Devonian

DEW points
Accurate dew point indication for atmospheres of heat-treating furnaces. P. R. Kalischer. il diag Steel 111:110-11 S 14 '42

DEW points—*Continued*

Dew-point recorder for natural gas operates on simple photoelectric principle. J. A. Setter. diag Chem & Met Eng 49:132 F '42; Same. Pet Eng 13:134 F '42; Same. Oil & Gas J 41:90 S 24 '42; Same cond. Refrig Eng 43:180 Mr '42

Exhaust gas, dew points and engine lubrication. B. Maddock. Power Pl Eng 46:64-6 F '42

Phase equilibria in hydrocarbon systems; composition of the dew-point gas of the methane-water system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1223-7 O '42

DEWAR, James, 1842-1923

Centenary of Sir James Dewar. Engineering 154:234 S 18 '42

DEWEY, Bradley, 1887-

Portrait. Business Week p50 O 17 '42; India Rubber W 107:180 N '42

Sketch. por Rubber Age 52:61 O '42

DEXTER sulphite pulp and paper company

Dexter company properties sold to Canadian syndicate. il Paper Ind 24:21 Ap '42

DEXTRAN

Studies on reactions relating to carbohydrates and polysaccharides; structure of the dextran synthesized by the action of leuconostoc mesenteroides on sucrose. I. Levi, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 64:1959-62 Ag '42

DEXTRINS

Dextrines and semi-dextrines from minor starches; standard processes with potato and maize starch. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:189-91, 201-2 Ap 11-18 '42

Molecular weights of the Schardinger alpha and beta dextrins. D. French and R. E. Rundle. bibliog Am Chem Soc J 64:1651-3 Jl '42

Structure of the dextrins isolated from corn sirup. M. Levine, J. F. Foster and R. M. Hixon. bibliog Am Chem Soc J 64:2331-7 O '42

Study of the products obtained from starch by the action of the amylase of bacillus macerans. W. S. McClenahan, E. B. Tilden and C. S. Hudson. bibliog Am Chem Soc J 64:2139-44 S '42

Vegetable oils in sugar confectionery; sweetening agents; solubilising starch. A. E. Williams. Chem Age (Lond) 47:362-4 O 24 '42

DEXTROSE

Dextrose victory; tentative amendments to FDA's canned-fruit standards would allow use of corn sugar and syrup without labeling. Business Week p51-2 Ja 17 '42

Mutarotation of α-D-glucose in dioxane-water mixtures at 25°. H. H. Rowley and W. N. Hubbard. Am Chem Soc J 64:1010-11 Ap '42

New type of sulfanilamide derivative of D-glucose; sulfanilyl-2-amino-α-D-glucose and certain derivatives. E. L. Jackson. bibliog Am Chem Soc J 64:1371-4 Je '42

Raman spectra of the sugars in the solid state and in solution; the Raman spectra of α- and β-*d*-glucose. F. H. Spedding and R. F. Stamm. bibliog il J Chem Phys 10:176-83 Mr '42

See also
Glucose

Analysis

Determination of moisture in sugar products; maltose and dextrose. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:27-30 Ja 15 '42

DEZINCIFICATION. See Brass—Corrosion

DIABETES

Diabetes mellitus. Z. T. Wirtschafter and M. Korenberg. 186p bibliog(p160-79) $2.50 Williams & Wilkins '41

Diagnosis of undetected diabetes; report of a study of a group of 1,800 individuals. E. W. Gates. bibliog Ind Med 11:387-91 Ag '42

Pamphlet of instruction for the diabetic patient. W. M. LeFevre. 2d ed 40p pa 50c Wm. M. LeFevre, Muskegon, Mich. '42

Production of permanent hyperglycemia and glycosuria by the prolonged administration of insulin. I. A. Mirsky and others. Science 95:583-4 Je 5 '42

DIABETES association, American. See American diabetes association

DIACETONE alcohol

Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

Hydration of unsaturated compounds; the role of the oxonium complexes in the hydration of mesityl oxide and the dehydration of diacetone alcohol. D. Pressman, L. Brewer and H. J. Lucas. Am Chem Soc J 64:1122-8 My '42

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

DIACETONE glucose. See Glucose

DIACETOXYNAPHTHALENE

Bromination of 1 : 5-dihydroxy- and 1 : 5-diacetoxy-naphthalene, 5-methoxy-1-naphthol, and 1 : 5-dimethoxynaphthalene. A. H. Carter, E. Race and F. M. Rowe. Chem Soc J p236-9 Ap '42

DIACETYL

Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

Production of radicals by the illumination of diacetyl with λ 4358 Å. H. W. Anderson and G. K. Rollefson. Am Chem Soc J 64:717 Mr '42

DIAFEROMETER, Thermic. See Noyons diaferometer

DIAGNOSIS

Diagnosis of source of hematuria associated with industrial injuries. J. J. Crane. il Ind Med 11:476-9 O '42

Diagnostic procedure in evaluating industrial dermatoses. L. Tulipan and F. A. Glass. bibliog Ind Med 11:101-4 Mr '42

Diagnostic signs, reflexes and syndromes, standardized. W. E. Robertson and H. F. Robertson. 2d rev ed 327p $3.50 Davis '42

Eye manifestations of internal diseases. I. S. Tassman. 542p $8.50 C. V. Mosby co, St Louis '42

Interpretation of the patch test. O. L. Levin. Ind Med 11:177-9 Ap '42

Laboratory diagnosis of protozoan diseases. C. F. Craig. 349p bibliog(p329-37) $4.50 Lea & Febiger, Philadelphia '42

Physical diagnosis. F. D. Adams. 13th ed 888p $5 Williams & Wilkins '42

Positive agglutination tests in suspected cases of Weil's disease. A. Packchanian. bibliog Pub Health Rep 56:2145-56 N 7 '41

Significance of chemical examination in the diagnosis of silicosis. L. U. Gardner and A. J. Redlin. J Ind Hygiene 24:125-30 Je '42

Symptom diagnosis, regional and general. W. M. Barton and W. M. Yater. 4th ed 900p $10 Appleton-Century '42

Symptoms in diagnosis. J. C. Meakins. 323p $4 Little '41

See also
Complement fixation

DIAGNOSIS, Radioscopic

Electrocardiogram and X-ray configuration of the heart. A. M. Master. 2d ed enl & rev 404p bibliog(p384-90) $7.50 Lea & Febiger, Philadelphia '42

Iodinated organic compounds as contrast media for radiographic diagnoses; iodinated aracyl esters. W. H. Strain, J. T. Plati and S. L. Warren. bibliog Am Chem Soc J 64:1436-40 Je '42

Principles of roentgenological interpretation. L. R. Sante. 4th rev ed 342p bibliog(p323-4) $5.50 St Louis bk distributing co, 1507 McCausland av, St Louis, Mo.

DIAGNOSIS, Radioscopic—*Continued*
Roentgen diagnosis of the extremities and spine. A. B. Ferguson. 462p $12 Harper '41

DIAL
Derivatives of amytal, pentobarbital, and dial; an optical crystallographic study. M. E. Hultquist, C. F. Poe and N. F. Witt. Ind & Eng Chem Anal ed 14:219 Mr 15 '42

DIALDEHYDES. See Aldehydes

DIALLYL. See Hexadiene

DIALLYL barbituric acid. See Dial

DIALS, Instrument
Maintenance and servicing of electrical instruments. J. Spencer. il diags Instruments 15:255-6, 258 Jl '42

DIALYSIS
Concentration of enzymes and other biological colloids by dialysis. G. E. Youngburg. Science 94:498 N 21 '41
Fractionation of waxy and ordinary cornstarch. C. G. Caldwell and R. M. Hixon. bibliog Am Chem Soc J 63:2876-80 N '41

DIALYZERS
Dialyzing concentrator. C. C. Smith and C. D. Stevens. bibliog il diag Ind & Eng Chem Anal ed 14:348-9 Ap 15 '42
Sensitive check valve; study of boundary between solvent and solution; rocking dialyzer. M. A. Lauffer. diags Science 95:363-4 Ap 3 '42

DIAMIDINES. See Amidines

DIAMINES. See Amines

DIAMINOANTHRAQUINONE
Study of gas fading of acetate rayon dyes. F. P. Greenspan and P. E. Spoerri. bibliog diags Am Dyestuff Rep 30:645-50, 664-5 N 24 '41

DIAMINODIPHENYLSULFONE
Carboxylic acid derivaties of 4 : 4′-diaminodiphenylsulphone. W. H. Gray and B. C. Platt. Chem Soc J p42-5 Ja '42
Chemotherapeutic action of a N-phosphoryl derivative of 4-4′-diaminodiphenylsulfone. M. I. Smith, S. M. Rosenthal and E. L. Jackson. bibliog Pub Health Rep 57:1534-42 O 9 '42

DIAMINOSTILBENEDIOL
Enediols; an amino stilbenediol. R. C. Fuson and S. L. Scott. Am Chem Soc J 64:2152-3 S '42

DIAMOND match company
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:644 O 3 '42

DIAMONDS
Controlled diamonds; prohibition of manufacture of gem diamonds. Economist 142:728 My 23 '42
Diamond-cutting industry for Cuba. For Comm W 7:38 Ap 18 '42
Diamond shares; De Beers receipts, expenses and dividends, 1937-1940. Economist 141:656-7 N 29 '41
Diamonds for victory; South America's diamond bullets aid democracy's arsenal. il For Comm W 6:3-5+ Ja 17 '42
Energy relations of the surface of solids; surface energy of the diamond. W. D. Harkins. diags J Chem Phys 10:268-72 My '42
Fire in the earth; the story of the diamond. J. R. McCarthy. 263p bibliog(p253-5) $2.50 Harper '42
Fluorescence of diamonds. Science 95:sup8 Mr 27 '42
New British industry; diamond polishing. il Engineer 173:351-2 Ap 24 '42; Engineering 153:426-7 My 29 '42
Story of diamonds. A. C. Austin and M. Mercer. rev ed 96p bibliog(p91) pa 50c Gemological inst. of America, 541 S. Alexandria st, Los Angeles '41

Advertising

Quick turnover in diamonds. il Ptr Ink 197:21-3 D 26 '41

DIAMONDS, Industrial
Control of industrial diamonds. Economist 142:478-9 Ap 4 '42
Diamond dies for the high-speed drawing of copper wire. H. N. Padewicz. bibliog il diags Bell System Tech J 21:20-36 Je '42
Diamonds for victory; South America's diamond bullets aid democracy's arsenal. il For Comm W 6:3-5+ Ja 17 '42
Industrial diamonds. Economist 143:88-9 Jl 18 '42
Industrial diamonds; fluorescent lighting assists close examination. il Electrician 128:362-3 Ap 17 '42
Industrial diamonds for war. W. Weiss. Barron's 22:5 Ap 13 '42
Invention of the rock drill. P. Grodzinski. Can Min J 63:15-16 Ja '42
Jewels in time-pieces and instruments. P. Grodzinski. diags Engineering 152:518-19 D 26 '41
New WPB order covering rough diamonds. For Comm W 7:26 Ap 25 '42
Setting diamonds in wheel-dressing tools. R. T. Jameson. diags Am Mach 86:884 Ag 20 '42

DIANHYDRIDES
Synthesis of condensed ring compounds; the dianhydride of a steradiene-6,7,11,12-tetracarboxylic acid. L. W. Butz and L. M. Joshel. Am Chem Soc J 63:3344-7 D '41
Synthesis of condensed ring compounds; the dianhydride of a tetradecahydrochrysene-5,6,11,12-tetracarboxylic acid and a homolog with an angular methyl group. L. M. Joshel, L. W. Butz and J. Feldman. Am Chem Soc J 63:3348-9 D '41

DIARRHEA
Studies of the acute diarrheal diseases; an outbreak due to salmonella typhi murium. W. E. Mosher, jr. and others. bibliog Pub Health Rep 56:2415-26 D 19 '41
Studies of the acute diarrheal diseases; Shigella dysenteriae infections among institutional inmates. A. V. Hardy and others. Pub Health Rep 57:1079-1102 Jl 24 '42

DIATHERMY apparatus
FCC requires listing. Comm & Fin Chr 155:1941 My 21 '42
Heat lamp; built-in reflector, for home use. il Sci Am 165:338 D '41

DIATOMACEOUS earth
Calcium phosphate in the filtration of sugar liquors. A. B. Cummins. il Ind & Eng Chem 34:398-402 Ap '42
Clarifying efficiency of diatomaceous filter aids. A. B. Cummins. il Ind & Eng Chem 34:403-11 Ap '42
Decolorizing filter aids; Kyrite and Dicalite M-23. R. Boyd and R. W. Schmidt. il Ind & Eng Chem 34:744-8 Je '42
Diatalum dwellings; new house of 194x. il diags plans Arch Forum 77:108-11 S '42
Diatomaceous silica and its application in the paint industry. H. W. Hall. il Paint Oil & Chem R 104:12, 14+ Mr 26 '42
Diatomaceous silica filter-aid clarification. A. S. Elsenbast and D. C. Morris. il Ind & Eng Chem 34:412-18 Ap '42
Japanese diatomaceous earths and their industrial application; abstract. T. Kawasima and Y. Siraki. Am Cer Soc J 25 (Cer A 21): 89-90 Ap 1 '42
Mining and refining of diatomite; flow sheet. il Chem & Met Eng 49:110-13 Ag '42

See also
Filter-Cel

DIATOMITE. See Diatomaceous earth

DIATOMS
Diatoms in paper manufacture. H. W. Hall. Paper Tr J 115:107-9 O 1 '42
Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; diatomaceae. K. E. Lohman. il U S Geol S Professional Pa 196-B:55-86, pl 11-17; pa 45c Supt. of doc. '41

DIAZO compounds
Decomposition reactions of the aromatic diazo-compounds; mechanism of the Sandmeyer reaction. W. A. Waters. Chem Soc J p266-70 Ap '42

See also
Diazotization

DIAZOAMINO compounds
Reactions between *sym*-diphenyltriazene and mercury(II) salts. C. M. Knowles and G. W. Watt. bibliog Am Chem Soc J 64:935-7 Ap '42

DIAZOMETHANE
Action of diazomethane upon acyclic sugar derivatives. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. Am Chem Soc J 64:1701-4 Jl '42
Action of diazomethane upon acyclic sugar derivatives; a new synthesis of ketoses and and of their open chain *(keto)* acetates. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. bibliog Am Chem Soc J 64:2329-31 O '42

DIAZONIUM compounds
Color reactions of sympathomimetic amines with diazonium compounds. K. H. Beyer. Am Chem Soc J 64:1318-22 Je '42
Decomposition of arylazo-β-naphthylamines by sodium nitrite and glacial acetic acid. H. H. Hodgson and C. K. Foster. bibliog Chem Soc J p30-3 Ja '42
Decomposition of zinc chloride double salts of diazonium compounds by alcohols and phenol. H. H. Hodgson and C. K. Foster. Chem Soc J p581-3 S '42
Diazonium borofluorides; their use in the Bart reaction. A. W. Ruddy, E. B. Starkey and W. H. Hartung. bibliog Am Chem Soc J 64:828-9 Ap '42
Improved method for the preparation of benzenediazonium salts. W. Smith and C. E. Waring. Am Chem Soc J 64:469-70 F '42
Interpretation of the Sandmeyer reaction. H. H. Hodgson, S. Birtwell and J. Walker. Chem Soc J p770-6 N '41
Some reactions of the diazonium salts of certain arylazo-β-naphthylamines. H. H. Hodgson and C. K. Foster. Chem Soc J p435-7 Jl '42

DIAZONIUM hydroxide
Polymerization of styrene catalyzed by *p*-bromobenzenediazonium hydroxide. C. C. Price and D. A. Durham. bibliog Am Chem Soc J 64:2508-9 O '42

DIAZOTIZATION
Analytical determination of *p*-toluidine in the presence of its isomers. C. H. Benbrook and R. H. Kienle. bibliog diag Ind & Eng Chem Anal ed 14:427-8 My 15 '42
Coupling of *m*-fluorophenol with some diazotised amines and the preparation of 2-fluorobenzoquinone. H. H. Hodgson and D. E. Nicholson. Chem Soc J p645-6 O '41
Diazotization of an aminoaryllead compound. H. Gilman and C. G. Stuckwisch. Am Chem Soc J 64:1007-8 Ap '42
Direct diazotization of nitrobenzene. F. W. Bergstrom and J. S. Buehler. bibliog Am Chem Soc J 64:19-21 Ja '42
Sulfanilamide, sulfapyridine, sulfathiazole, sulfaguanidine, and sulfadiazine; assay, differentiation, and identification. J. A. Calamari, R. Hubata and P. B. Roth. bibliog Ind & Eng Chem Anal ed 14:534-5 Jl 15 '42
Synthesis of *p*-hydroxyphenyl amyl sulfide. E. Miller, F. S. Crossley and M. L. Moore. bibliog Am Chem Soc J 64:2322-3 O '42

DIBENZOFLUORENE
Polycyclic aromatic hydrocarbons; dibenzfluorenes. R. H. Martin. Chem Soc J p679-85 O '41

DIBENZOFLUORENONE
New route to the synthesis of dibenzfluorenones. G. Swain and A. R. Todd. Chem Soc J p674-9 O '41

DIBENZOYL peroxide. See Benzoyl peroxide

DIBENZYLAMINE
Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42

DIBENZYLIDENE dulcitol
New dibenzylidene dulcitol (2,3,4,5-dibenzylidene-dulcitol). W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:136-7 Ja '42
Second 2,3,4,5-dibenzylidene-dulcitol. W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:137-40 Ja '42
Structure of dibenzylidene dulcitol (1,3:4,6-dibenzylidene-dulcitol). W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:132-6 Ja '42

DIBENZYLIDENE sorbitol
1,2,3,4-Dibenzylidene-D-sorbitol. J. K. Wolfe, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:1493-7 Jl '42

DIBENZYL sebacate
Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

DIBORANE. See Boron hydrides

DIBROMOBUTANE
Brucine as a reagent for partially resolving bromoalkanes; the configurations of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

DIBROMODIFLUOROSILICANE
Electron diffraction investigation of the molecular structures of silicon tetrabromide, tribromosilane, and dibromodifluorosilane. R. Spitzer, W. J. Howell, jr. and V. Schomaker. bibliog Am Chem Soc J 64:62-7 Ja '42

DIBROMOHEXANE
Brucine as a reagent for partially resolving bromoalkanes; the configuration of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

DIBROMOOCTANE
Brucine as a reagent for partially resolving bromoalkanes; the configurations of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

DIBROMOPREGNANOLONE
Sterols; 17,21-dibromopregnan-2(β)-ol-20-one and its conversion to pregnanol-3-(β),21-diol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:213-15 F '42
Sterols; rearrangement of 16,17-dibromopregnan-3(β)-ol-20-one. R. E. Marker, R. B. Wagner and E. L. Wittbecker. Am Chem Soc J 64:2093-7 S '42
Sterols; the conversion of pregnan-3(β)-ol-20-one into etio-cholan-3(β)-ol-17-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:817-18 Ap '42

DIBROMOPREGNANONE
Sterols; 17-bromo-*allo*-pregnanone-20 and 17, 21-dibromo-*allo*-pregnanone-20. R. E. Marker and others. Am Chem Soc J 64:822-4 Ap '42
Sterols; rearrangement of 17,21-dibromo-*allo*-pregnan-3(β)-ol-20-one acetate. R. E. Marker and others. Am Chem Soc J 64:2089-92 S '42

DIBROMOXYLOQUINONE
Reaction between quinones and enolates; dibromo-*o*-xyloquinone and sodium malonic ester. L. I. Smith and F. L. Austin. bibliog Am Chem Soc J 64:528-33 Mr '42

DIBUTYLHYDROQUINONE
Reduction of dipole moment by steric hindrance in di-*t*-butylhydroquinone and its dimethyl ether. P. F. Oesper, C. P. Smyth and M. S. Kharasch. bibliog Am Chem Soc J 64:937-40 Ap '42

DIBUTYL phthalate
Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

DICALCIUM phosphate. See Calcium phosphates

DICARBOXYLIC acids
Dicarboxylic acid derivatives of sulfonamides. M. L. Moore and C. S. Miller. bibliog Am Chem Soc J 64:1572-6 Jl '42

DICHLORAMINE
Absorption spectra of mono-, di-, and trichloroamines and some aliphatic derivatives. W. S. Metcalf. Chem Soc J p148-50 F '42

DICHLOROBENZENE
Binary mixtures for testing fractionating columns at atmospheric and reduced pressures. L. B. Bragg and A. R. Richards. bibliog Ind & Eng Chem 34:1088-91 S '42

DICHLORODIFLUOROMETHANE
Electrical strength of nitrogen and Freon under pressure. H. H. Skilling and W. C. Brenner. bibliog Elec Eng 61:Trans 191-5 Ap '42
Heat transfer of evaporating Freon. C. M. Ashley. diags Refrig Eng 43:89-93; Discussion. 93-5 F '42

DICHLOROETHYL ether
Furfural and dichlorethyl ether conserved to assure ample supply at butadiene plants. Oil & Gas J 41:61 S 17 '42
Partial pressure of hydrogen chloride from its solutions in β,β′-dichloroethyl ether and in anisole and the calculation of the heat and entropy of solution. S. J. O'Brien. bibliog Am Chem Soc J 64:951-3 Ap '42

DICHLOROETHYLENE
Advances in plastics during 1941; vinylidene chloride polymers. W. C. Goggin. Mod Plastics 19:67+ Ja '42
Extruding vinylidene chloride. il diag Mod Plastics 19:33-6, 122 Ag '42
Fabrics of the future. il Mod Plastics 19:37-9 Ag '42
Vinylidene chloride polymers. W. C. Goggin and R. D. Lowry. bibliog flow sheet il diags Ind & Eng Chem 34:327-32 Mr '42
Vinylidene chloride resin tubing. C. B. Branch and D. L. Gibb. il diag Mod Plastics 19:64-7+ My '42
Vinylidene chloride yarns now woven into goods; Velon, originated from Saran. H. R. Mauersberger. il Rayon 23:615-16 O '42
Vinylidene plastics; properties, uses, etc. Product Eng 13:285-6 My '42
See also
Saran

DICHLOROISOBUTANE
Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. A. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

DICHLOROMETHANE. See Methylene chloride

DICHLOROPHENOLINDOPHENOL
Improved photometric method for ascorbic acid. C. Carruthers. bibliog Ind & Eng Chem Anal ed 14:826-8 O 15 '42
Potentiometric determination of vitamin C; combined use of 2,6-dichlorophenolindophenol and iodate. J. B. Ramsey and E. L. Colichman. bibliog Ind & Eng Chem Anal ed 14:319-21 Ap 15 '42

DICHLOROQUINOLINE
Syntheses in the quinoline series; 2,4-disubstituted quinoline derivatives. F. J. Buchmann and C. S. Hamilton. bibliog Am Chem Soc J 64:1357-60 Je '42

DICKEY, Raymond R.
Portrait. Mod Plastics 20:42 S '42

DICKINSON, Clinton Roy, 1888-
Roy Dickinson enters active army service. por Ptr Ink 198:18 Ja 23 '42

DICKINSON, William D. 1881-
Sketch. por Civil Eng 11:737-8 D '41

DICOUMARIN
Chemical dicoumarin reduces clotting ability of blood. Science 95:sup12-13 My 8 '42

DICTAPHONES. See Dictating machines

DICTATING machines
Embossed groove recording; SoundScriber system. L. Thompson. il diags Electronics 15:30-3+ Mr '42
Office record speaks. il Mod Plastics 19:59+ Ag '42

DICTATORS
Dictators; an introductory study in the social origins of dictatorship. J. D. Chambers. 222p bibliog(p209-14) 4s Nelson '41
Permanent revolution; the total state in a world at war. S. Neumann. 388p bibliog (p313-75) $3 Harper '42
Revolutions and dictatorships; essays in contemporary history. H. Kohn. 2d ed 439p bibliog(p425-31) $3.50 Harvard univ. press '41

DICYANOSTILBENE
Synthesis of 4,4′-dicyanostilbene. S. Fu and P. P. T. Sah. Am Chem Soc J 64:1482 Je '42

DICYCLOPENTADIENE
Vapor pressures of indene, styrene and dicyclopentadiene. P. E. Burchfield. Am Chem Soc J 64:2501 O '42

DIE casting
Designing for die casting. G. L. Werley and R. E. Kellers. diags Metals & Alloys 16:292+, 470 Ag-S '42
Die-casting aluminum aircraft cylinder heads. il diag Iron Age 148:63 N 20 '41
Die-casting inserts cut costs. H. Chase. diags Am Mach 86:1010-11 S 17 '42
Die is cast for war. il diags Fortune 26:76-9, 110, 112 Jl '42
Fatigue testing of zinc-base alloy die castings; abstracts. E. H. Kelton. Metals & Alloys 16:94 Jl '42; Chem & Met Eng 49:208-9 S '42
Finishes for aluminum die castings. A. E. Keskulla and J. D. Edwards. bibliog Am Soc T M Proc 41:931-40 '41; Same. Metal Finishing 40:220-4+ Ap '42; Abstract. Metals & Alloys 16:318+ Ag '42
Finishing magnesium die castings. H. W. Schmidt. Am Soc T M Proc 41:941-8 '41; Abstract. Chem & Met Eng 48:164-5 S '41
Finishing of zinc-base alloy die castings. E. A. Anderson. Am Soc T M Proc 41:949-52 '41
Light alloy castings in aircraft. Foundry 70:70-1+ Ag '42
Link trainer saves with die-castings. il diags Product Eng 13:576-8 O '42
Machine die castings producers; directory. Machine Design 14:184 O '42
Magnesium alloys; technique of pressure die-casting. diag Automobile Eng Extra no 31:389-90 N 6 '41
Milestone in dies; Kirksite "A" blazes new trail in casting dies for the aircraft plants. Business Week p76+ N 7 '42
Safety in die casting. B. H. Thomas. il Safety Eng 84:24-6 S '42
Technical progress paces victory march. Steel 110:276+ Ja 5 '42
War applications of aluminum die castings; Mount Vernon die casting corp. H. Chase. il Iron Age 149:47-52 Mr 26 '42
Zinc base die casting alloys with lowered aluminum. B. E. Sandell. Metal Prog 40:903+ D '41
See also Doehler die casting company

DIE casting machines
New die casting machines. il Iron Age 149:45 Ja 29 '42
Valve control simplifies casting machine. J. J. Rose. il diags Machine Design 14:110-12 Ap '42
War applications of aluminum die castings; Mount Vernon die casting corp. H. Chase. il Iron Age 149:47-52 Mr 26 '42

DIE casting workers, National association of. See National association of die casting workers

DIE sinking
Carbide dies for drawing and sinking metal tubing. E. Glen. diags Iron Age 150:64-5 Ag 27 '42
Point of tangency table; sinking dies for rounded, dished vessels; data sheet. H. W. Gerlach. Mach 48:119 Ag '42

DIE strippers
Positive stripper for shells. R. I. Miner. diags Am Mach 86:1250 O 29 '42

DIELECTRIC constants
Alternating-current apparatus for measuring dielectric constants. B. E. Hudson and M. E. Hobbs. diags R Sci Instr 13:140-3 Ap '42
Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

DIELECTRIC constants—*Continued*

Comments on the mechanisms of covalent-bond fission. W. A. Waters. Chem Soc J p153-7 F '42

Contribution to the physical chemistry of the asphalts. J. M. Swanson. bibliog il J Phys Chem 46:141-50 Ja '42

Derivation of a general kinetic equation for reaction between ions and dipolar molecules. E. S. Amis and G. Jaffé. J Chem Phys 10:598-604 S '42

Dielectric and solvent effects upon the iodide-persulfate reaction. E. S. Amis and J. E. Potts, jr. bibliog Am Chem Soc J 63:2883-8 N '41

Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. A. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

Dielectric constant, power factor, and conductivity of the system rubber-calcium carbonate. A. H. Scott and A. T. McPherson. bibliog diags J Research Nat Bur Stand 28: 279-96 Mr '42

Dielectric investigation of polypeptides; the dielectric increments of amino acid polypeptides. W. P. Conner, R. P. Clarke and C. P. Smyth. bibliog diag Am Chem Soc J 64:1379-87 Je '42

Dielectric investigation of polypeptides; the dispersion of simple amino acid polypeptides. W. P. Conner and C. P. Smyth. bibliog diag Am Chem Soc J 64:1870-8 Ag '42

Dielectric studies on muscle hemoglobin. H. O. Marcy, 3d and J. Wyman, jr. bibliog Am Chem Soc J 64:638-43 Mr '42

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Dispersion and absorption in dielectrics; direct current characteristics. K. S. Cole and R. H. Cole. bibliog J Chem Phys 10:98-105 F '42

Effect of dielectric constant on acid-base equilibria. M. Kilpatrick. bibliog Chem R 30:159-69 Ap '42

Electrical properties of solids; plasticized polyvinyl chloride. D. J. Mead, R. L. Tichenor and R. M. Fuoss. bibliog Am Chem Soc J 64:283-91 F '42

Electrical properties of solids; polymethyl acrylate, polymethyl methacrylate, polymethyl-α-chloracrylate and polychloroethyl methacrylate. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:2389-93 O '42

Electrode polarization in dielectric constant measurements. W. G. Smiley and A. K. Smith. bibliog Am Chem Soc J 64:624-8 Mr '42

Elimination of errors due to electrode polarization in measurements of the dielectric constants of electrolytes. T. M. Shaw. bibliog il diags J Chem Phys 10:609-17 O '42

Equilibrium diagram of the system carbon tetrachloride-*t*-butyl chloride as revealed by dielectric constant measurements. W. P. Conner and C. P. Smyth. Am Chem Soc J 63:3424-8 D '41

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Investigation of proteins by dielectric measurements. J. L. Oncley. bibliog (53 references) diags Chem R 30:433-50 Je '42

Measurement of dielectric constants by the comparison method; the dielectric constant of carbon tetrachloride from 15 to 40°. J. G. Miller. bibliog Am Chem Soc J 64:117-21 Ja '42

Measurements of power factor and dielectric constant at ultra high frequencies. K. G. Coutlee and others. bibliog il Am Soc T M Proc 41:1172-82 '41

Rate of inversion of sucrose as a function of the dielectric constant of the solvent. C. J. Plank and H. Hunt. bibliog J Phys Chem 45:1403-15 D '41

Relation of dielectric properties to structure of crystalline polymers; linear polyamides. W. O. Baker and W. A. Yager. bibliog Am Chem Soc J 64:2171-7 S '42

Relation of dielectric properties to structure of crystalline polymers; polyesters. W. A. Yager and W. O. Baker. bibliog Am Chem Soc J 64:2164-71 S '42

Report on round-robin tests of power factor and dielectric constant for glass. P. A. Richards. diags Am Soc T M Proc 41:1183-97 '41

Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42

Surge propagation; molecular theory of the dielectric constant. T. F. Wall. diags Engineering 154:154-6 Ag 21 '42

DIELECTRIC polarization. See Polarization, Dielectric

DIELECTRIC power factor. See Power factor, Dielectric

DIELECTRICS

Corona discharge on liquid dielectrics; materials responsible for increases in power factor. J. Sticher and J. D. Piper. bibliog diag Ind & Eng Chem 33:1567-74 D '41

Dielectric igniters for mercury pool cathode tubes; use made of ability of glass to withstand increased potential gradients as thickness is decreased. H. Klemperer. bibliog il diag Electronics 14:38-41 N '41

Dielectric nomenclature. H. H. Race. Elec Eng 61:105-6 F '42

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

Dielectric relaxation as a chemical rate process. W. Kauzmann. bibliog Rs Mod Phys 14:12-44 Ja '42

Dielectric strength and life of impregnated-paper insulation; further experiments on influence of the density of the paper. J. B. Whitehead. Elec Eng 61:Trans 618-22 Ag '42

D.c.-a.c. correlation in dielectrics. J. B. Whitehead and G. S. Eager, jr. bibliog il diags J Ap Phys 13:43-9 Ja '42

Discharge voltage and return voltage curves for absorptive capacitors. B. Gross. Phys R 62:383-7 O 1 '42

Dispersion and absorption in dielectrics; direct current characteristics. K. S. Cole and R. H. Cole. bibliog J Chem Phys 10:98-105 F '42

Electric breakdown of ionic crystals. H. Fröhlich. bibliog Phys R 61:200-1 F 1 '42

Electric strength of dielectrics. A. E. W. Austen and S. Whitehead. Phys R 61:199-200 F 1 '42

Electrical stability of mineral-oil-treated dielectrics; influence of refining technique. F. M. Clark and E. L. Raab. bibliog Ind & Eng Chem 34:110-16 Ja '42

Electrical strength of nitrogen and Freon under pressure. H. H. Skilling and W. C. Brenner. bibliog Elec Eng 61:Trans 191-5 Ap '42

High-pressure gas as a dielectric. G. C. Nonken. il diags Elec Eng 60:Trans 1017-20 D '41

Paper dielectrics containing chlorinated impregnants; deterioration in d.c. fields. D. A. McLean and others. bibliog il Ind & Eng Chem 34:101-9 Ja '42

Progress in engineering knowledge during 1941. P. L. Alger. bibliog il diags Gen Elec R 45:84-8 F '42

Relation between chemical composition and dielectric properties of ceramic materials with low dielectric losses. M. D. Rigterink, R. O. Grisdale and S. O. Morgan. bibliog Am Cer Soc J 25:439-43 N 1 '42

Research on phenoplasts dielectric properties; abstract. H. Stäger, W. Siegfried and R. Sanger. Chem & Met Eng 49:164+ Ag '42

Scattering of light by an aggregate of small dielectric particles. R. Landshoff. J Phys Chem 46:778-81 Je '42

Some measurements on the validity of the principle of superposition in solid dielectrics. H. Silva and B. Gross. Phys R 60: 684-7 N 1 '41

DIELECTRICS—*Continued*

Temperature compensation of condensers. W. H. F. Griffiths. il diags Wireless Eng 19: 101-11, 148-57 Mr-Ap '42; Discussion. 19: 199-200, 253-5 My-Je '42

Thermal conductivity of dielectrics. I. Pomeranchuk. bibliog Phys R 60:820-1 D 1 '41

Threshold field studies of various positive corona phenomena. K. E. Fitzsimmons. bibliog Phys R 61:175-82 F 1 '42

Transmission of power in compressed gas atmospheres; library research. H. M. Hobart. diags Franklin Inst J 234:251-73, 331-54 S-O '42

See also

Electrets

Insulating materials

Insulation (electric)

Polarization, Dielectric

Power factor, Dielectric

DIELS-ALDER reaction

Synthesis of condensed ring compounds; the successful use of ethylene in the Diels-Alder reaction. L. M. Joshel and L. W. Butz. bibliog Am Chem Soc J 63:3350-1 D '41

DIENE synthesis. See Synthesis

DIENOLS. See Enols

DIES

Brass cartridge cases drawn with cemented carbide dies. F. J. Oliver. il diags Iron Age 150:41-8 Jl 2 '42

Calculations for joggle dies. E. J. Rantsch. diags Aero Digest 40:136+ F '42

Carbide dies for drawing and sinking metal tubing. E. Glen. diags Iron Age 150:64-5 Ag 27 '42

Cartridge links for machine guns and automatic rifles. F. C. Duston. il diags plan Mach 49:123-38 O '42

Design of forgings for speedier production. O. A. Wheelon. il diags Product Eng 13: 524-9, 560-3, 612-14 S-O '42

Determining springback; calculating die radius to bend desired curve. R. G. Sturm and B. J. Fletcher. diags Product Eng 12: 526-8, 590-4 O-N '41; Discussion. 13:48-9 Ja '42

Development of plastic drill jigs and forming dies in aircraft tooling. il Aero Digest 41: 236+ Jl '42

Diamond dies for the high-speed drawing of copper wire. H. N. Padowicz. bibliog il diags Bell System Tech J 21:20-36 Je '42

Die designing and estimating. 2d ed 160p $3 Am. industrial publishers, Cleveland '42

Die-shoe with adjustable stops. J. Schlinger. diags Mach 49:168-9 S '42

Dies for fabrication of porous bearings. A. J. Langhammer and M. F. Smith. il diags Metal Prog 41:335-7 Mr '42

Dies for precision press-bending of pipes. il Engineering 154:36 Jl 10 '42; Same. Engineer 174:40 Jl 10 '42

Draft in inches for die clearance angles; reference book sheet. W. J. Woodworth and P. T. Woodworth. Am Mach 86:1189, 1191, 1251 O 15-29 '42

Draw dies for a rectangular shell; bed lamp. M. Golden. il diags Am Mach 86:214-16 Mr 19 '42

Drawing die equipped with automatic lubricating device. G. Wilson. diags Mach 48: 139-40 F '42

Drawing dies for airframe stampings; Kirksite A die material performs efficiently. G. A. Brewer. il Iron Age 149:37-41 My 28 '42

Forgings and forging practice; designing dies and forged parts. A. F. Macconochie. diags Steel 110:56-8 Je 29 '42

From print to part in eight hours; development of Kirksite dies for punch press work; Vega airplane company. J. Harris. il Aviation 41:70-1+ Ja '42

Historical notes on the tap and die industry. J. E. Winter. Mach 48:133-5 Ja '42

How forging design details affect cost estimations; Douglas aircraft company. O. A. Wheelon. diags Product Eng 13:641-3 N '42

Industrial powder metallurgy; design of dies. P. R. Kalischer. diags Iron Age 149:48-9 F 12 '42

Jigs and dies from cast plastics; Lockheed and Vega aircraft corporations. il Am Mach 86:731-8 Jl 9 '42

Low-cost blanking and piercing dies. J. R. Joachimi. il Steel 110:64-5+ Mr 2 '42

Maintenance of press tools; correct designs cut costs. H. R. Hageman. diags Am Mach 86:1216-17 O 29 '42

Making and handling drop-hammer dies. C. J. Frey and S. S. Kogut. il diags Aero Digest 41:140, 145-6+ Jl '42

Multiple subpress dies for aircraft fabrication. G. F. Wales. il diag Iron Age 150: 52-5 Ag 27 '42

Plastic drill jigs and forming dies for aircraft tooling. il Automotive & Aviation Ind 87:36-41+ Jl 1 '42

Plastic tooling at Lockheed and Vega. C. O. Herb. il diags Mach 48:150-9 Jl '42

Press work on hollow parts. M. Golden. il diags Am Mach 86:944-6 S 3 '42

Relieving tooling bottlenecks with plastics; Formrite method of making dies, jigs and fixtures. L. Weiss. il diags Aviation 41:114-21 O '42

Rolled and cast Kirksite in airplane plants; forming and blanking dies. W. W. Broughton. il diags Mach 49:139-47 O '42

Rules governing forging machine dies. E. R. Frost. diags Metal Prog 42:756 O '42

Setting up and removing power press dies; hazards and safety measures. Nat Safety N 46:52, 54 S '42

Soft metal tools; abstract. A. McLeod. Metals & Alloys 14:214, 758+ Ag, N '41

Standard drawing dies (carbide) for small ammunition. E. Glen. il diags Metal Prog 42:229-32 Ag '42; Same. Mach 49:172-4 S '42; Same. Steel 111:78+ N 2 '42

Swivel top table handles heavy dies. J. E. Hyler. diag Am Mach 86:164 Mr 5 '42

Tooling for aircraft production. il Mod Plastics 19:33-7, 104, 106+ Jl '42

Use of carbide dies for drawing special shapes. J. R. Longwell. diags Steel 110:80, 82 F 2 '42

Vega applies cast dies; Kirksite punch-press dies for airplane parts. J. A. Harris. il Am Mach 86:15-19 Ja 8 '42

See also

Die casting

Manufacture

Air hardening forging die inserts; abstract. H. E. Replogle. Metals & Alloys 16:760+ O '42

Cold heading die quenching fixture; abstracts. H. C. Griggs. diags Iron Age 150:53 Jl 16 '42; Metals & Alloys 16:117 Jl '42

From games to gages, dies and bullet punches. il Steel 110:30-1 Je 1 '42

Hardening of cartridge dies and punches. R. B. Seger. il diags Metals & Alloys 15:776-8 My '42

Monorail handling system saves time and money in die shop; I. J. Frindt co. il plan Steel 110:90+ My 25 '42

Plastics in production; improved thermosetting, casting resin; Baker plastic. K. J. Leeg. diags Iron Age 149:43-4 F 12 '42

Punches cut their own dies. J. Haydock. il diags Am Mach 86:815-18 Ag 6 '42

Some typical conversion case histories; from metal housewares to ordnance tools. Metals & Alloys 15:772 My '42

Standardised die sets; production methods by Desoutter bros. il Automobile Eng 32:63-6 F '42

Tools, dies in mass production. Steel 110:406-7 Ja 5 '42

DIESEL-electric locomotives. See Locomotives, Diesel-electric

DIESEL engine stations. See Electric plants (central stations)—Diesel engine stations; Power plants—Diesel engine plants

DIESEL engines

Automatic fire protection; pump driven by a Diesel engine. C. P. Molyneux. il Diesel Power 20:815 O '42

Chrome-hardening of cylinder bores. H. Van der Horst. diag Metal Finishing 40:69-73 F '42

DIESEL engines—*Continued*

Diesel conversion shows great reliability; engine originally operated on natural gas; Olean glass factory. il Diesel Power 19:1021-2 D '41

Diesel cylinder wear. Diesel Power 20:677 Ag '42

Diesel drive for passenger air conditioning. J. R. Hornaday. flow diags il Refrig Eng 43:139-42 Mr '42

Diesel engine users' association; report on heavy-oil engine working costs for the year 1940-1; summary with discussion. Engineering 154:254, 274-5 S 25-O 2 '42

Diesel engineering handbook, v.2. L. H. Morrison, ed. de luxe ed 574p $6 Diesel publications, New York '41

Diesel engines; a complete Diesel home study course. rev ed 824p $8; outside U.S. $9 Diesel publications, 192 Lexington av, New York '42

Diesel engines and Diesel electric power. E. L. Richards. 321p $2.50 Drake '41

Diesel engines for trucks. B. B. Bachman. Diesel Power 20:147-9+ F '42; Excerpts. S A E J 50:51 F '42

Diesel engines guard vital war production; air compressor drives; Republic aviation corp. il Diesel Power 20:203-4 Mr '42

Diesel sessions; SAE annual meeting. S A E J 50:sup62-3 F '42

Diesel, the modern power. R. A. Richardson. 2d rev ed 31p General motors corp., Detroit '41

Diesel vehicles; operation, maintenance and repair. F. J. Camm, ed. 109p $2 Chemical pub. co. '42

Diesels cut dredge costs; Union sand and gravel co. O. Adams. il Rock Prod 45:62-3+ F '42

Experiences of Schoharie county in Diesel use. il Diesel Power 19:1041 D '41

Future of the railway oil engine. B. Reed. Engineering 153:145-6, 218-20 F 20, Mr 13 '42; Same cond. Engineer 173:104-6 Ja 30 '42

High speed Diesel engines, with special reference to automobile and aircraft types; an elementary textbook for engineers, students and operators. A. W. Judge. 4th ed rev & enl 536p 25s Chapman & Hall, London '41

Late developments in automotive Diesels. il diag Diesel Power 20:214, 216-17, 584-5+, 664+ Mr, Jl-Ag '42

Lightweight Diesel; two-thirds smaller, it develops same horsepower. il Business Week p27-8 Jl 18 '42

More power for America; Diesel-powered equipment is speeding work on defense line across the Isthmus of Panama. G. W. Cunningham. il Diesel Power 20:495-6 Je '42

New developments in accessories for the Diesel field. il diags Diesel Power 20:485-93 Je '42

New engines and applications. il Diesel Power 20:481-4 Je '42

New theory of combustion in Diesel engines. M. G. Fiedler. il diags Franklin Inst J 233:17-39, 143-59; Discussion. 159-71 Ja-F '42

Oil and gas power conference, 15th, Peoria, June 17-19. Power Pl Eng 46:92 Jl '42

Oil and gas power conference, 15th, Peoria, June 17-19; abstracts of papers. Oil & Gas J 41:31-2 Je 18 '42

Pitting of gudgeon pins; preventive methods. R. Robinson. diag Engineer 173:170 F 20 '42

Recent developments in piston rings for high-speed Diesels. J. O. Holls and T. C. Jarrett. il Diesel Power 20:650 Ag '42

Report of the Oil and gas power meeting. Diesel Power 20:643-5 Ag '42

Review of power and mechanical equipment; Diesels, gas engines and accessories. il diags Power 85:944-6 Mid-D '41

See also

Electric plants (central stations)—Diesel engine stations

Locomotives, Diesel

Power plants—Diesel engine plants

Air supply

Combustion in Diesel engines; effect of adding gaseous combustibles to the intake air. M. A. Elliott and L. B. Berger. bibliog Ind & Eng Chem 34:1065-71 S '42; Abstract. Coal Age 47:74 My '42

Cylinder proportions; experiments showing the influence upon air movement in a compression-ignition engine. C. B. Dicksee. diag Automobile Eng 32:159-61 Ap '42

Diesel engine combustion; some factors influencing utilisation of air charge. C. B. Dicksee. diags Automobile Eng 31:420-2 N '41

Effect of friction in air inlet and exhaust systems of internal-combustion engines. O. Adams. diags Pet Eng 13:33-4 Je; 92+ Ag '42

Bearings

Bearing for Diesel engines; abstract. R. A. Watson. S A E J 50:sup16-17 O '42

Bearings for Diesel engines. A. B. Willi. il diags Mech Eng 64:439-48 Je '42; Abstract. Automotive & Aviation Ind 87:44 S 1 '42

Bonding high-lead babbitt to cast iron. J. H. Shoemaker. il Power 86:729-30 O '42

Piston-pin notes. Diesel Power 20:398 My '42

Control

Controls speed without hunting; device for Diesel engines, combining function of fuel pump and governor; patent. diag Machine Design 14:122+ Mr '42

Cooling

Cooling Diesel jacket water. G. C. Boyer. il diags Power 86:79-81 F '42

Cooling nozzles serve Diesel plant bearings. il Elec W 117:836 Mr 7 '42

Diesel jacket-water flow chart; data sheet. G. C. Boyer. Power 85:925 D '41

Diesel waste heat; jacket water used to heat water for plant use. diags Power 86:349-51 Ap '42

Engine cooling. H. F. Brinen. il Automobile Eng 32:371-2 S '42

Fundamentals of Diesel cooling. G. C. Boyer. diags Power 85:919-21 D '41

New model coolers by Fairbanks-Morse. il Diesel Power 20:490 Je '42

Newest type of variable-pitch fan control. il diag Diesel Power 20:737 S '42

Rising jacket-water temperature; problem. Power Pl Eng 45:95 N '41; Solutions. 46:95-8 Ja '42

Transo Envelope uses Diesels; jacket water from engines cooled by evaporative-type heat exchanger. R. S. Jones, jr. il Diesel Power 20:821-2 O '42

Cost of operation

Diesel power unit cuts costs 74%. il Brick & Clay Rec 99:36+ D '41

16½ year operating record; Diesel-powered Carthage, Mo. water and electric plant. il Diesel Power 20:893-5 N '42

Design

Cylinder proportions; experiments showing the influence upon air movement in a compression-ignition engine. C. B. Dicksee. diag Automobile Eng 32:159-61 Ap '42

How to secure rigidity in aluminum crankcase. diags Automotive & Aviation Ind 87:76+ Ag 15 '42

Late developments in automotive Diesels; Mack-Lanova engines. il diags Diesel Power 20:407-8+ My '42

Low-consumption Diesel; new M.A.N. engine with non-turbulent combustion chamber. diags Automobile Eng 32:149-50 Ap '42

Porting of two-stroke cycle Diesel engines. P. H. Schweitzer. diags Diesel Power 20:401-3, 477-9, 575-6, 651-5, 727-9, 817-20, 917-21 My-N '42

Radial Diesels. E. T. Vincent. il diag Power Pl Eng 46:83-6 O '42

Some results of valve-gear research as applied to Diesel engines. C. Voorhies. il diags S A E J 50:358-71 Ag '42

Two-stroke two-shaft opposed-piston oil engine. il diag Engineer 174:15-17 Jl 3 '42

DIESEL engines—*Continued*

Detonation

Injector-valve motion studies by the cathode-ray oscillograph. H. M. Fuller. diags Diesel Power 20:582-3 Jl '42

Knock-to-smoke range; a measure of Diesel engine flexibility. P. H. Schweitzer. diags Automotive & Aviation Ind 86:28-9 Mr 1 '42

Directories

Buyers' guide; manufacturers of Diesel engines and accessory products. il Diesel Power 20:56-89 Ja '42

Efficiency

High-speed oil engines; some notes on their mechanical efficiency. Automobile Eng 32:224 Je '42

Rational basis for correlating data on compression-ignition engine performance at different intake and exhaust conditions. M. A. Elliott. bibliog S A E J 49:532-43 D '41

Exhaust

Combustion in Diesel engines; effect of adding gaseous combustibles to the intake air. M. A. Elliott and L. B. Berger. bibliog Ind & Eng Chem 34:1065-71 S '42

Effect of friction in air inlet and exhaust systems of internal-combustion engines. O. Adams. diags Pet Eng 13:33-4 Je; 92+ Ag '42

Effects of Diesel fuel on exhaust smoke and odor; abstract. R. S. Wetmiller and L. E. Endsley, jr. Automotive & Aviation Ind 87:44+ S 1 '42

Improved Penn State smokemeter. P. H. Schweitzer. il diags Instruments 15:346-50 S '42

Influence on atmospheric pollution of the exhausts from Diesel automotive vehicles and locomotives. R. J. Bender. Diesel Power 20:646-9 Ag '42

Knock-to-smoke range; a measure of Diesel engine flexibility. P. H. Schweitzer. diags Automotive & Aviation Ind 86:28-9 Mr 1 '42

Meter for determining density of exhaust smoke. diags Ry Mech Eng 116:33 Ja '42

Failure

Crankshaft failures; investigations in research department of Institution of automobile engineers. C. G. Williams and J. S. Brown. il diags Automobile Eng 31:401-5 N '41

Expensive burnout of engine bearing. Locomotive 44:110 O '42

Fuel

Army specifications call for three basic Diesel fuels. Oil & Gas J 40:27 N 13 '41

Cetane-number study of Diesel fuels. W. G. Ainsley, H. D. Young and M. L. Hamilton. bibliog diags S A E J 50:160-8; Discussion. G. H. Cloud. 168 Ap '42

Cetane numbers and physical properties of normal alkyl benzenes and other hydrocarbons; evaluation of *n*-alkyl benzenes and certain related hydrocarbons as Diesel fuels. T. Y. Ju, C. E. Wood and F. H. Garner. Inst Pet J 28:159-71 Ag '42

Creosote oil as a fuel in compression ignition engines. R. J. Bramhall. Gas J (Lond) 236:390+ D 10 '41

Diesel-fuel-oil classification. Am Soc T M Proc 41:356-9 '41

Effects of Diesel fuel on exhaust smoke and odor; abstracts. R. S. Wetmiller and L. E. Endsley, jr. Automotive & Aviation Ind 87:44+ S 1 '42; Oil & Gas J 41:53 Ag 27 '42

Evaluation of Diesel fuels in full-scale engines. Am Pet Inst Proc 22M(3):99-118 My '41; Excerpts. Nat Pet N 33:R412+ D 24 '41

Fuel for Diesel engines; smoke and odor in exhaust can be reduced by use of fuels of higher cetane number and volatility; abstract. R. E. Wetmiller and L. E. Endsley, jr. Science 95:sup 12 Je 19 '42

Gas-burning Diesels give fuel flexibility; Universal Atlas cement co. il diags plan Power 86:651-4 S '42

Ignition accelerators for compression-ignition engine fuels; abstract. J. S. Bogen. Nat Pet N 34:R43-5 F 4 '42

Keeping Diesel oil and gasoline separate; methods of various companies. Transit J 86:181 My '42

Means of improving ignition quality of Diesel fuels. E. M. Nygaard, G. S. Crandall and H. G. Berger. Inst Pet J 27:348-68 O '41

Performance characteristics and specifications of Diesel fuel oil. W. L. Nelson. bibliog Oil & Gas J 41:47+ S 17 '42

Use of filtered crude results in marked improvement in fuel consumption; municipal power plant, Luverne, Minnesota. E. K. Thon. il Diesel Power 20:46-7 Ja '42

Vegetable oils for United Kingdom's Diesel trucks? For Comm W 9:22 O 10 '42

Fuel consumption

Diesels in water works plants; how much fuel do they consume? W. F. Schaphorst. il Water Works & Sewerage 89:140-1 Mr '42; Correction. 89:181 Ap '42

Fuel feeding

Air fuel ratios for volatile fuels. W. H. Paul and M. N. Popovich. Power Pl Eng 46:93-4 Ja '42

Coffee search fails, but points to better Diesel filter; made from powdered metal. Sci Am 166:176 Ap '42

Effect of viscosity of fuel oil on injection equipment. G. W. Baierlein. diags Diesel Power 19:1040+; 20:136-7+ D '41, F '42

Injector-valve motion studies by the cathode-ray oscillograph. H. M. Fuller. diags Diesel Power 20:582-3 Jl '42

Late developments in automotive Diesels; Mack-Lanova engines. il diags Diesel Power 20:417-18 My '42

New design of fuel-injection system for Diesel engines; patented by H. Pokorney. il diag Diesel Power 20:121 F '42

Valve plunger action in the Caterpillar injector. il Diesel Power 20:279 Ap '42

Ignition

Diesel engine combustion; some factors influencing utilisation of air charge. C. B. Dicksee. diags Automobile Eng 31:420-2 N '41

Means of improving ignition quality of Diesel fuels. E. M. Nygaard, G. S. Crandall and H. G. Berger. Inst Pet J 27:348-68 O '41

Utility of Diesel fuel ignition accelerators; abstract. Heinze, Marder and Veidt. Chem & Met Eng 49:222 S '42

Inspection

Inspection procedure for Diesel engines. E. R. Spencer. il diag Power Pl Eng 46:70-3 F; 81-2 Ap '42; Same cond. with additional diags. Power 86:188-90, 263-5 Mr-Ap '42

Lubrication

Diesel engine lubrication; report of symposium at National oil and gas power conference. P. M. Heldt. Automotive & Aviation Ind 87:26-8+ Ag 1 '42

How to judge used Diesel lube oil. S. S. Hansen. il diags Power 86:14-17 Ja '42

Lubrication of high speed Diesel engines. H. G. Vesper. Diesel Power 20:217+ Mr '42; Same cond. Power Pl Eng 46:66-7+ F '42; Same cond. Roads & Sts 85:62, 64-5 Mr '42

Oil filters. U. B. Bray. Diesel Power 19:1050-1 D '41

Maintenance and repair

Diesel engineers tell how to operate under war conditions; round-table session, 15th National oil and gas power conference. Power 86:662-3 S '42

Keep them running; an expert tells how. C. J. Read. il Diesel Power 20:587-8 Jl '42

Metallizing techniques for engine parts. il diags Diesel Power 20:739-42 S '42

Pair of Diesel tips. H. W. Gerhardt. diags Bus Transportation 21:226 My '42

Regular maintenance prolongs Diesel life and usefulness. M. J. Turner. il Diesel Power 20:397-8 My '42

DIESEL engines—Maintenance and repair—*Continued*

Valve maintenance on four-cycle engines. J. B. Sims. il Diesel Power 20:212-13 Mr '42

Manufacture

Air cooled Diesels for tanks; plant at Garland, Texas. il Manuf Rec 110:28-9 N '41

Cannon mass produced ahead of schedule brings in more navy contracts for Pontiac Motor. il Am Mach 86:592-4 Je 11 '42

Diesel engines for the seaways of the world; Nordberg manufacturing co. il Mach 49:188-91 N '42

Protection

Safety controls for Diesel engines. il diags Diesel Power 19:1035-7; 20:50-3, 131-5+ D '41-F '42

Rating

Diesel engine ratings. A. Vincze. Diesel Power 20:831+ O '42

Reconstruction

Getting 1941 economy with older Diesel engines. diags Diesel Power 19:1033-4 D '41

Scavenging

Porting of two-stroke cycle Diesel engines. P. H. Schweitzer. diags Diesel Power 20: 401-3, 477-9, 575-6, 651-5, 727-9, 817-20, 917-21 My-N '42

Specifications

Automotive Diesel and other heavy oil engines; tabulations. Automotive & Aviation Ind 86:102-5 Mr 15 '42

Diesel engine specification number: tabulated by manufacturers. il diags Diesel Power 20:284-359, 422 Ap-My '42

Starting

Storage batteries designed for war use. il diags Diesel Power 20:660-1 Ag '42

Statistics

Cumulative chart of major fields of application of Diesel engines in the United States; yearly sales in horsepower, 1916-1941. Diesel Power 20:48-9 Ja '42

Superchargers

Buchi system of turbo-charging. il diags Diesel Power 20:910-14 N '42

Engine cooling. H. F. Brinen. il Automobile Eng 32:371-2 S '42

Future of the railway oil engine. B. Reed. Engineering 153:218-19 Mr 13 '42

Mechanical supercharging oil engines. H. L. Knudsen. il S A E J 49:481-6 N '41; Same. Automobile Eng 32:57-61 F '42

New supercharged two-stroke Diesel. il diags Marine Eng 47:153-5 S '42

Positive displacement supercharger. J. L. Ryde. il diag Diesel Power 20:899-905 N '42; Abstract. Automotive & Aviation Ind 87: 78+ S 1 '42

Supercharging methods for Diesel engines. il diags Diesel Power 20:896-8 N '42

Supercharging of two-stroke Diesel engines. il diags Engineering 154:97-100, 118-20 Jl 31-Ag 7 '42; Same cond. Diesel Power 20: 922-6 N '42

Supercharging of two-stroke Diesel engines. F. Oederlin. il diags Mech Eng 64:779-83 N '42

Supercharging oil engines; abstract. A. E. Tolstov and D. A. Portnov. Automobile Eng 31:417 N '41

Supercharging two-stroke Diesel engines and the possibility of using a free piston engine for jet propulsion; abstracts. Roy Aeronautical Soc J 46:233-4 Jl '42; Aeronautical Eng R 1:49 Ag '42

Turbochargers increase output of four-cycle Diesel engines; Buchi system. J. P. Stewart. il Oil & Gas J 41:113-14+ S 24 '42; Same cond. Power 86:708-10 O '42

Two-stroke two-shaft opposed-piston oil engine. il diag Engineer 174:15-17 Jl 3 '42

Temperature

Close temperature regulation pays dividends; Diesel engine heat used to heat oil for Kobe pumping unit. il Diesel Power 20: 579-81 Jl '42

Heat recoverable in Diesel installations; abstract. F. P. Grutzner. diags Power 86:546-7 Ag '42

Testing

Cummins engine co.; new research laboratory with refrigerated room for cold start tests. il Heat & Ven 38:41-2 D '41

Indicated horsepower from pressure-time diagrams. E. H. Moore. il Diesel Power 20: 127-30 F '42

Knock-to-smoke range; a measure of Diesel engine flexibility. P. H. Schweitzer. diags Automotive & Aviation Ind 86:28-9 Mr 1 '42

Valves

Some results of valve-gear research as applied to Diesel engines. C. Voorhies. il diags S A E J 50:358-71 Ag '42

Vibration

Axial vibration of Diesel engine crankshafts. R. Poole. diags Inst Mech Eng J & Proc 146:Proc 167-82, pl 1-2 F '42; Same cond. Engineer 173:29-31, 60-2 Ja 9-16 '42

Measurement of torsional vibrations. R. Stansfield. diags Engineering 154:178-80, 198-200 Ag 28-S 4 '42; Same abr. Engineer 174:77-9, 101-2 Jl 24-31 '42; Discussion. Engineering 154:74 Jl 24 '42

DIESEL engines, Marine

Diesel engines for the seaways of the world; Nordberg manufacturing co. il Mach 49: 188-91 N '42

Diesel school enlists for the duration; Coast Guard men being trained. il Diesel Power 20:658-9 Ag '42

Diesel towboat "Tri-State". il Marine Eng 47:128-30 Jl '42

Diesels for C1A cargo ships. il diags Marine Eng 47:140-3+ Ag '42

Light-weight Diesels increase speed, cruising radius of sub-chasers. il Steel 111:54 Jl 13 '42

New supercharged two-stroke Diesel. il diags Marine Eng 47:153-5 S '42

Practical marine Diesel engineering. L. R. Ford. 3d ed 590p $5 Simmons-Boardman '41

Supercharging of two-stroke Diesel engines. F. Oederlin. il diags Mech Eng 64:781-3 N '42

DIESEL locomotives. See Locomotives, Diesel

DIET

Balanced meals for soldiers. Nat Safety N 45:64 F '42

Better lunch box; drive to improve diet of worker. il Business Week p39-40, 42+ S 12 '42

Calcium in the adult diet. T. Moran and J. B. Hutchinson. bibliog Chem & Ind 61: 416-17 O 10 '42

Cereal cellulose, a roughage material suitable for experimental animal diets. E. R. Harding. Science 95:234 F 27 '42

Chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C in monkeys. H. F. Fraser. bibliog Pub Health Rep 57:959-67 Je 26 '42

Complete book of diets for all ages; including medical dietetic suggestions for 325 common ailments. R. M. Field. 272p $2.50 Doubleday '42

Doctrine and diet; developments in nutritional science outrun education. J. A. Tobey. il Tech R 44:127-9+ Ja '42

Factors influencing capillary permeability in the vitamin E deficient chick. H. Dam and J. Glavind. bibliog Science 96:235-6 S 4 '42

Feather depigmentation and pantothenic acid deficiency in chicks. T. C. Groody and M. E. Groody. bibliog Science 95:655-6 Je 26 '42

Good health on war-time food. A. B. Callow. 32p pa 6d Oxford '41

DIET—*Continued*

Histogenesis and repair of the hepatic cirrhosis in rats produced on low protein diets and preventable with choline. R. D. Lillie and others. bibliog Pub Health Rep 57:502-8 Ap 3 '42

Low cost food for health. 75p 25c Nutrition service, Community health assn, Boston '37

Meager diet healthy; abstract. C. M. McCay, W. T. James and L. L. Barnes. Food Ind 14:74 O '42

Mouth lesions in monkeys associated with a chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C. H. F. Fraser and N. H. Topping. Pub Health Rep 57:968-73, pl 1-3 Je 26 '42

Nation's food; cereals as food. D. W. Kent-Jones and A. L. Bacharach. bibliog Chem & Ind 60:823-7 N 22 '41

No mystery in pep; seven simple rules for getting and maintaining a reserve of vigor. D. A. Laird. Sci Am 166:73-5 F '42

Nutrition and national defense. R. M. Wilder. Ind Med 10:562-4 D '41

Nutrition in health and disease. L. F. Cooper, E. M. Barber and H. S. Mitchell. 8th ed rev 709p bibliog(p686-8) $3.50 Lippincott '41

Pathology of artificially induced scurvy in the monkey, with and without chronic calcium deficiency. T. H. Tomlinson, jr. bibliog Pub Health Rep 57:987-93, pl 1-2 Jl 3 '42

Pounds off! M. MacLevy. 193p $1.50 Prentice-Hall '42

Prolongation of life through diet; how Methusala did it. R. B. Pearson. 117p $1.50; pa $1 Health, Denver '41

℞ for slimming. I. J. Kain. 276p $2.50 David McKay co, Washington sq. Philadelphia '40

Significance of choline as a dietary factor. C. H. Best. bibliog Science 94:523-7 D 5 '41

Something constructive on diet questions. F. J. Schlink. Consumers' Research Bul 9:18-20 N '41

Study finds that normal, healthy Americans can be amply nourished on 25 cents a day. Ins Field (Life ed) 70:6+ N 14 '41

Successful rearing of a second generation of mice on an artificial diet. L. K. Rogers, L. W. McElroy and G. R. Cowgill. Science 95:203-4 F 20 '42

Yardstick for planning the daily diet. L. J. Roberts. Sci Am 166:75 F '42

See also

Food

Nutrition

Vitamins

DIET in disease

Nutrition and diet therapy; a textbook of dietetics. F. T. Proudfit. 8th ed 1069p bibliog(p1056-7) $3.25 Macmillan '42

DIETHANOLAMINE

Rate of absorption of carbon dioxide in diethanolamine solutions. D. S. Cryder and J. O. Maloney. bibliog diags Am Inst Chem Eng Trans 37:827-52 O '41; Discussion. 38:247-50 Ap '42

DIETHYLAMINE

Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

DIETHYLBENZENE

Binary mixtures for testing fractionating columns at atmospheric and reduced pressures. L. B. Bragg and A. R. Richards. bibliog Ind & Eng Chem 34:1088-91 S '42

DIETHYLBENZOIC acid

Synthesis of 3,5-diethylbenzoic acid. H. R. Snyder, R. R. Adams and A. V. McIntosh, jr. bibliog Am Chem Soc J 63:3280-2 D '41

DIETHYL dihydroxy naphthalate

Study of diethyl 1,4-dihydroxy-2,3-naphthalate. A. H. Homeyer and V. H. Wallingford. Am Chem Soc J 64:798-801 Ap '42

DIETHYL ether. See Ethyl ether

DIETHYLSTILBESTROL

Analysis

Colorimetric determination of diethylstilbestrol. M. Tubis and A. Bloom. bibliog Ind & Eng Chem Anal ed 14:309 Ap 15 '42

Semimicrochemical assay for diethylstilbestrol. C. W. Sondern and C. Burson. Ind & Eng Chem Anal ed 14:358-9 Ap 15 '42

DIETHYLENE glycol

Pipe-line program includes installation of dehydration plants. F. H. Love. il Pet Eng 13:46, 48 S '42

Practical problems in dehydration plants, design and operation. T. S. Bacon. il diag Gas Age 89:17-20 My 21 '42

DIETHYLENETRIAMINE

Copper(II) and nickel(II) complex ions of diethylenetriamine. H. M. Haendler. bibliog Am Chem Soc J 64:686-8 Mr '42

DIFFERENTIAL analyzers

Analytic approach to the hysteresis loop; using differential analyzer. C. N. Weygandt and S. Charp. diags Elec Eng 61:387-8 Jl '42

Calculating machines. E. W. Crew. diag Engineer 172:440-1 D 19 '41

DIFFERENTIAL equations

All electric integrator for solving differential equations. R. N. Varney. il diags R Sci Instr 13:10-16 Ja '42

Differential equations. M. Morris and O. E. Brown. rev ed 355p $3 Prentice-Hall '42

Differentiation with the cinema integraph. C. L. Pekeris and W. T. White. Franklin Inst J 234:17-29 Jl '42

Operational methods in applied mathematics. H. S. Carslaw and J. C. Jaeger. 264p $5 Oxford '41

Rate equations for consecutive reactions. T. L. Hill. Am Chem Soc J 64:465-7 F '42

Some refinements in methods of graphical integration. L. H. Donnell. il diags Franklin Inst J 233:331-48 Ap '42

DIFFRACTION adapter

Diffraction adapter for the electron microscope. J. Hillier, R. F. Baker and V. K. Zworykin. il diags J Ap Phys 13:571-7 S '42

DIFFRACTION gratings

New diffraction grating; abstract. R. W. Wood. Science 95:sup10 My 8 '42

Recording echelette grating spectrometer for the near infra-red. L. G. Smith. il diags R Sci Instr 13:54-62 F '42

DIFFRACTION of X rays. See X rays—Diffraction

DIFFUSERS, Polycylindrical. See Acoustics, Architectural

DIFFUSION

Determination of ammonia by a diffusion method. A. N. Prater, E. J. Cowles and R. P. Straka. bibliog il Ind & Eng Chem Anal ed 14:703-5 S 15 '42

Determination of ethyl alcohol by microdiffusion. T. Winnick. bibliog Ind & Eng Chem Anal ed 14:523-5 Je 15 '42

Diffusion coefficient of cupric sulfate from 0.0 to 0.35 molar at 25°C. W. G. Eversole, H. M. Kindsvater and J. D. Peterson. diag J Phys Chem 46:370-5 Mr '42

Diffusion coefficients in solution; an improved method for calculating *D* as a function of concentration. W. G. Eversole, J. D. Peterson and H. M. Kindsvater. J Phys Chem 45:1398-1403 D '41

Diffusion in and through solids. R. M. Barrer. 464p $6.50 Macmillan '41

Diffusion theory of the codeposition of gold and copper. M. Dole. Electrochem Soc Trans 82 (preprint 15):145-59 O '42

Diffusional operations in chemical engineering. H. F. Johnstone and others. flow sheets bibliog il diags Chem & Met Eng 49:77-124 My '42

Electrolytic study of linear diffusion of silver salts. H. A. Laitinen. bibliog Electrochem Soc Trans 82 (preprint 9):101-8 O '42

General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42

Investigation of proteins by diffusion measurements. H. Neurath. bibliog il diags Chem R 30:357-94 Je '42

DIFFUSION—*Continued*

Mechanical concentration of gases. C. G. Maier. bibliog diags U S Bur Mines Bul 431:1-148; pa 20c Supt. of doc. '40

Mechanism for self-diffusion in metallic copper. H. B. Huntington and F. Seitz. bibliog Phys R 61:315-25 Mr 1 '42

Nomographs for mean driving forces in diffusional problems. E. G. Scheibel and D. F. Othmer. il Ind & Eng Chem 34:1200-8 O '42

Self-consistent treatment of the vacancy mechanism for metallic diffusion. H. B. Huntington. diags Phys R 61:325-38 Mr 1 '42

Self-diffusion of copper; rates of diffusion by employing artificially produced radioactive elements. C. F. Raynor, L. Thomassen and L. J. Rouse. bibliog Am Soc for Metals Trans 30:313-25 Je '42

Self-diffusion of zinc. P. H. Miller, jr. and F. R. Banks. bibliog diags Phys R 61:648-52 My 1 '42

State of aggregation of gelatin in non-gelating systems. E. O. Kraemer. J Phys Chem 46:177-82 Ja '42

Study of diffusion in glass; abstracts. J. A. Pask and C. W. Parmelee. Glass Ind 23:184 My '42; Cer Ind 38:34 My '42

See also

Colloids

Gases

Osmosis

DIFFUSION of rays. See Electrons—Reflection, scattering, etc.; Light, Scattering of; Mesotrons—Scattering; Neutrons—Scattering; Protons—Scattering; Raman effect; X rays—Scattering

DIFLAVYLEN

Cleavage of the ethylene linkage by the action of sulphur. A. Schönberg and W. Asker. Chem Soc J p272-4 Ap '42

DIFLUORIDES

Addition of hydrogen fluoride to the triple bond. A. V. Grosse and C. B. Linn. bibliog diag Am Chem Soc J 64:2289-92 O '42

New method of synthesizing aliphatic difluorides. M. W. Renoll. Am Chem Soc J 64:1115-16 My '42

DIGESTERS (paper making)

Automatic weighing of digester chip loadings. N. V. Edmonson. il diag Paper Ind 23:1097-9 F '42

Control of direct-heated sulphite digesters. J. F. Inderdohnen. il diag Paper Tr J 115:35-7 Jl 30 '42

DIGESTION

Ultracentrifugal analysis of pepsin-treated serum globulins. M. L. Petermann. bibliog J Phys Chem 46:183-91 Ja '42

Utilization of food proteins. J. C. McGowan. Chem & Ind 61:150 Mr 28 '42

DIGESTIVE organs

Diseases

Digestive diseases in general practice. J. H. Willard. 449p $5.50 Davis '42

Diseases of the digestive system. S. A. Portis, ed. 952p $10 Lea & Febiger, Philadelphia '41

Gastro-enteritis and public water supplies; abstract. C. R. Cox. Am Water Works Assn J 34:141 Ja '42

Great American stomach; gastrointestinal tract and its troubles. il Fortune 24:82-5+ D '41

Lectures on gastroenterology. M. Sturtevant. 3d ed pa $1.25 113p New York univ, College of medicine, 477 1st av, New York '41

DIGITALIS

Chile supplies digitalis. For Comm W 8:24 Ag 15 '42

U.S.P. assay of digitalis. Oil Paint & Drug Rep 141:47 F 23 '42

DIGITOGENIN

Sterols; sapogenins; the position of the hydroxyl groups in digitogenin. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1843-7 Ag '42

DIGLYCERIDES. See Glycerides

DIGLYCOL laurate

Polyhydric alcohol esters in our war effort; textiles. J. W. Daum. Chem Ind 51:523 O '42

DIGLYCOL stearate

Polyhydric alcohol esters in our war effort. J. W. Daum. il Chem Ind 51:522-3 O '42

DIHYDROBENZOFURAN

Coumaran derivatives; synthesis of 3,4,6,3′,4′-pentahydroxy-2-benzylcoumaran. R. L. Shriner and F. Grosser. bibliog Am Chem Soc J 64:382-4 F '42

Orientation studies in the coumaran series. R. T. Arnold and J. C. McCool. bibliog Am Chem Soc J 64:1315-17 Je '42

DIHYDROBENZONAPHTHENE. See Perinaphthane

DIHYDROFARNESENE

Course of autoxidation reactions in polyisoprenes and allied compounds; hydroperoxidic structure and chain scission in low-molecular polyisoprenes. E. H. Farmer and D. A. Sutton. Chem Soc J p139-48 F '42

Rubber, polyisoprenes, and allied compounds; the synthesis of low-molecular polyisoprenes of the rubber and the squalene type. E. H. Farmer and D. A. Sutton. Chem Soc J p116-21 F '42

DIHYDROJASMONE

Observations on the absorption spectra of terpenoid compounds; five-atom-ring unsaturated ketones. A. E. Gillam and T. F. West. Chem Soc J p486-8 Ag '42

DIHYDROMYRCENE

Course of autoxidation reactions in polyisoprenes and allied compounds; hydroperoxidic structure and chain scission in low-molecular polyisoprenes. E. H. Farmer and D. A. Sutton. Chem Soc J p139-48 F '42

DIHYDROQUINIDINE

Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42

DIHYDROTACHYSTEROL

Treatment of renal osteodystrophy with dihydrotachysterol (A.T.10) and iron. S. H. Liu. and H. I. Chu. Science 95:388-9 Ap 10 '42

DIHYDROXYCHOLANIC acid

Sterols; 3(α),11,12-trihydroxycholanic acid. R. E. Marker and others. Am Chem Soc J 64:1228-9 My '42

DIHYDROXYFORMYLBENZOIC acid

Synthesis of compounds related to mould metabolic products; 3 : 5-dihydroxy-2-formylbenzoic acid and 3 : 5-dihydroxyphthalic acid. J. H. Birkinshaw and A. Bracken. Chem Soc J p368-70 My '42

DIHYDROXYNAPHTHALENE. See Naphthalenediol

DIHYDROXYPHTHALIC acid

Synthesis of compounds related to mould metabolic products; 3 : 5-dihydroxy-2-formylbenzoic acid and 3 : 5-dihydroxyphthalic acid. J. H. Birkinshaw and A. Bracken. Chem Soc J p368-70 My '42

DIHYDROXYSTEARIC acid

Dihydroxystearic acid of castor oil; its constitution and structural relationship to the 9 : 10-dihydroxystearic acids, m. p.'s 132° and 95°. G. King. Chem Soc J p387-91 Je '42

DIIODOTHYRONINE

Synthesis of 3′,5′-diiodothyronine. P. Block, jr. and G. Powell. bibliog Am Chem Soc J 64:1070-4 My '42

DIISOPROPYLIDENE fucitol

Structure of diacetone-L-fucitol (2,3,4,5-di-isopropylidene-L-fucitol). A. T. Ness, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:982-5 Ap '42

DIKES (engineering)

Development of Mississippi River channel; model-prototype conformity. F. R. Brown. Am Soc C E Proc 68:1366-8 O '42

DIKES (engineering)—*Continued*
Santa Fe strengthens lines to fight flood waters. Ry Age 111:780 N 15 '41
See also
Dams
Earthwork

DIKES (geology)
Ring structures of the Pliny region, New Hampshire. R. W. Chapman. bibliog map Geol Soc Bul 53:1533-67, pl 1-2 O '42

DIKETENE
Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

DIKETO-n-VALERIC acid. See Acetopyruvic acid

DIKETONES. See Ketones

DILATOMETERS
Dilatometric equipment from the Lunkenheimer co., Cincinnati. H. E. Montgomery and J. W. Bolton. il diag Metals & Alloys 16:52-5 Jl '42
Simultaneous measurement of magnetic and dilatometric changes. O. Zmeskal and M. Cohen. il diag R Sci Instr 13:346-8 Ag '42

DILLON, Edward J.
Most famous auto thief catcher. por East Underw 42:59 D 12 '41

DILLON, Theodore H. 1883-
Sketch. por(p261) Ry Age 113:262 Ag 15 '42

DILUTION, Heat of
Some heats of dilution and related thermal quantities of aqueous cadmium chloride, bromide, and iodide solutions. A. L. Robinson and W. E. Wallace. bibliog Chem R 30:195-209 Ap '42
Specific heats and heats of dilution of concentrated sodium hydroxide solutions. H. R. Wilson and W. L. McCabe. bibliog il diags charts Ind & Eng Chem 34:558-66 My '42
Vapor pressure-temperature relations and heats of solution and dilution of the binary system manganous nitrate-water. W. W. Ewing, C. F. Glick and H. E. Rasmussen. Am Chem Soc J 64:1445-9 Je '42

DIMENSIONAL analysis
Increasing design tempo through model analysis. J. N. Goodier. il Machine Design 14:62-5+ S '42
Models and analogues for solving design problems. E. N. Kemler. il diags Product Eng 13:660-1 N '42
Some observations on dimensional analysis. F. O. Rose. Boston Soc C E J 29:245-63 O '42

DIMENSIONS in architecture. See Building—Standards

DIMESITYLBUTANEDIONE
Acylation of the di-enolate of 1,4-dimesitylbutanedione-1,4. R. E. Lutz, W. G. Reveley and V. R. Mattox. Am Chem Soc J 63:3171-4 N '41
Stereochemistry of the enols and di-enols of 2-*t*-butyl-1,4-dimesitylbutanedione-1,4; a proof of 1,4-reduction of an α-bromoketone. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3180-9 N '41

DIMESITYLBUTANETRIONE
Acylation of 1,4-dimesityl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:1375-7 Je '42

DIMESITYL compounds
Preparation and alkylation of 1,4-dimesityl-3-methyl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2423-6 O '42
Stereoisomeric bromo 1,4-dimesityl unsaturated 1,4-diketones. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2426-30 O '42

DIMESITYLPHENYLBUTANEDIONE
Acylation of the di-enolate of 1,4-dimesityl-2-phenylbutanedione-1,4. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3175-8 N '41

DIMETHALLYL. See Dimethyl hexadiene

DIMETHOXYBENZOQUINONE. See Quinones

DIMETHOXYBIPHENYLENE
1,8-Dimethyl and 2,7-dimethoxybiphenylene. W. C. Lothrop. bibliog Am Chem Soc J 64:1698-1700 Jl '42

DIMETHOXYNAPHTHALENE
Bromination of 1 : 5-dihydroxy- and 1 : 5-diacetoxy-naphthalene, 5-methoxy-1-naphthol, and 1 : 5-dimethoxynaphthalene. A. H. Carter, E. Race and F. M. Rowe. Chem Soc J p236-9 Ap '42

DIMETHYLACETOACETIC acid
Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

DIMETHYLACETYLENE
Heat capacity, entropy, and heats of transition, fusion, and vaporization of dimethylacetylene; free rotation in the dimethylacetylene molecule. D. M. Yost, D. W. Osborne and C. S. Garner. bibliog Am Chem Soc J 63:3492-6 D '41

DIMETHYLALLYL alcohol
Alkyl-oxygen fission in carboxylic esters; esters of αγ-dimethylallyl alcohol and other substituted allyl alcohols. M. P. Balfe and others. Chem Soc J p556-9 S '42

DIMETHYLAMINE
Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42
Effect of formaldehyde on the volatilizations of ammonia, mono-, di-, and trimethylamines. G. J. Benoit, jr. and E. R. Norris. bibliog diag Ind & Eng Chem Anal ed 14:823-5 O 15 '42
Polymerization of some derivatives of trimethylaluminum. N. Davidson and H. C. Brown. bibliog Am Chem Soc J 64:316-24 F '42
Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42

DIMETHYLAMINOAZOBENZENE
Experiments with a homologue of dimethylazobenzene (butter yellow); abstract. R. W. Linton and L. D. Smith. Franklin Inst J 234:286-8 S '42
Polarographic curve of serum from rats fed p-dimethylaminoazobenzene. H. P. Rusch and D. L. Miner. bibliog Science 84:468 N 14 '41
Procarcinogenic effect of biotin in butter yellow tumor formation. V. du Vigneaud and others. bibliog Science 95:174-6 F 13 '42

DIMETHYLAMINOBENZALDEHYDE
Komarowsky color reaction for aliphatic alcohols; limitations and sensitivity. H. W. Coles and W. E. Tournay. bibliog il Ind & Eng Chem Anal ed 14:20-2 Ja 15 '42

DIMETHYLAMINOSTYRYLQUINOLINE
Color and constitution; absorption of 2-*p*-dimethylaminostyrylquinoline and its salts; the effect on absorption of a benzene ring in the chromophoric chain of dyes. L. G. S. Brooker and R. H. Sprague. bibliog Am Chem Soc J 63:3202-13 N '41

DIMETHYLANILINE
Nitrous acid as a nitrating and oxidising agent; reactions with the four 3-halogenodimethylanilines. H. H. Hodgson and D. E. Nicholson. Chem Soc J p766-70 N '41
Tertiary base textile softeners. A. J. Hall. Textile Col 64:224-6 My '42

DIMETHYLBIPHENYLENE
1,8-Dimethyl and 2,7-dimethoxybiphenylene. W. C. Lothrop. bibliog Am Chem Soc J 64:1698-1700 Jl '42

DIMETHYLBUTANE
Infra-red spectra of hydrocarbons; some investigations of the temperature dependence of absorption bands. W. H. Avery and C. F. Ellis. diag J Chem Phys 10:10-18 Ja '42
P-V-T relations and derived quantities for hexanes. E. A. Kelso and W. A. Felsing. bibliog Ind & Eng Chem 34:161-3 F '42

DIMETHYLDIBENZYLAMMONIUM hydroxide

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

Viscosity determination of cotton in dimethyl dibenzyl ammonium hydroxide. W. W. Russell and L. N. Hood, jr. bibliog diag Ind & Eng Chem Anal ed 14:202-5 Mr 15 '42

DIMETHYL ether. See Methyl ether

DIMETHYLETHYLTOCOLS

Chemistry of vitamin E; the three dimethylethyltocols. L. I. Smith and W. B. Renfrow, jr. bibliog Am Chem Soc J 64:445-7 F '42

DIMETHYLETHYLENEDIAMINE

N,N-dimethylethylenediamine and some derivatives. R. Baltzly, J. S. Buck and W. S. Ide. Am Chem Soc J 64:2232-3 S '42

DIMETHYLFORMAMIDE

Solvent extraction of Pennsylvania lubricating oils with dimethylformamide. H. T. Ward. bibliog diags Am Inst Chem Eng Trans 38:931-46 O '42

DIMETHYL hexadiene

Conjugated diolefins by double bond displacement. A. L. Henne and A. Turk. bibliog Am Chem Soc J 64:826-8 Ap '42

DIMETHYLHYDRAZINE

Photolysis of dimethylhydrazine. W. L. Kay and H. A. Taylor. J Chem Phys 10:497-504 Ag '42

DIMETHYLISOPROPYL cyclopentenone

Observations on the absorption spectra of terpenoid compounds; *iso*thujone. A. E. Gillam and T. F. West. Chem Soc J p811-14 D '41

DIMETHYLOCTENE

3,7-Dimethyloctene-2. S. Natelson, S. P. Gottfried and S. Kornblau. Am Chem Soc J 64:1484-5 Je '42

DIMETHYLPHOSPHINE

Polymerization of some derivatives of trimethylaluminum. N. Davidson and H. C. Brown. bibliog Am Chem Soc J 64:316-24 F '42

Preparation and properties of dimethylphosphine. N. Davidson and H. C. Brown. Am Chem Soc J 64:718 Mr '42

DIMETHYL sulfide. See Methyl sulfide

DIMETHYLENE dulcitol. See Dulcitol

DIMMICK, Glenn Leslie

Recipient of the 1941 Society of motion picture engineers progress medal. O. S. Shairer. por Soc Motion Picture Eng J 37:548-50 D '41

DINEOPENTYLCARBINYL group

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1247-53 Je '42

DINING cars

C.P.R. has new diner on its maritimes run. il Ry Age 113:614+ O 17 '42

See also

Railroads—Commissaries

DINITROANILINE

Preparation of the dinitrochlorobenzenes from the corresponding dinitroanilines. L. H. Welsh. bibliog Am Chem Soc J 63:3276-8 D '41

DINITROBENZAZIDE. See Dinitrobenzoyl azide

DINITROBENZOYL azide

Chemistry of vitamin E; 3,5-dinitrobenzazide as a reagent for preparation of derivatives of tocopherols. L. I. Smith and J. A. Sprung. bibliog Am Chem Soc J 64:433-4 F '42

DINITROBENZYLIDENE dulcitol

Structure of di-*o*-nitrobenzylidene-dulcitol (1,3:4,6-di-*o*-nitrobenzylidene-dulcitol). R. M. Hann, W. T. Haskins and C. S. Hudson. bibliog Am Chem Soc J 64:1614-15 Jl '42

DINITROPHENYLHYDRAZONE

Quantitative determination of 2-methyl-1,4-naphthoquinone. A. R. Menotti. il Ind & Eng Chem Anal ed 14:418-20 My 15 '42

DINITROTOLUIDINE

Some dinitro-*o*-toluidines. A. McGookin. Soc Chem Ind J 60:297 N '41

DINNERWARE. See Tableware

DINOSAURIA

Hadrosaurian dinosaurs of North America. R. S. Lull and N. E. Wright. il diags Geol Soc Special Pa no 40:1-242, pl 1-31 bibliog (p231-8) '42

Some field observations bearing on the origin of the Morrison gastroliths. W. L. Stokes. Science 95:18-19 Ja 2 '42

Too hot for the dinosaur! G. R. Wieland. Science 96:359 O 16 '42

Triassic footprints from Argentina. R. S. Lull. diags Am J Sci 240:421-5, pl 1 Je '42

DIOLEFINS. See Olefins

DIOPSIDE

Binary system $CaSiO_3$—diopside and the relations between $CaSiO_3$ and akermanite. J. F. Schairer and N. L. Bowen. Am J Sci 240:725-42 O '42

System $CaSiO_3$—diopside—anorthite. E. F. Osborn. bibliog diags Am J Sci 240:751-88 N '42

DIOSGENIN

Sterols; sapogenins; some new sources of diosgenin. R. E. Marker, R. B. Wagner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1283-5 Je '42

DIOTHANE

Optically active phenylurethan anesthetics. M. S. Raasch and W. R. Brode. bibliog Am Chem Soc J 64:1112-14 My '42

DIOXALATOTHIOMETASTANNATES

Study of complex dioxalatothiometastannates. H. H. Willard and T. Y. Toribara. diag Am Chem Soc J 64:1762-5 Ag '42

DIOXANE

Boiling point-composition data of the methyl alcohol-dioxane system. F. L. Padgitt, E. S. Amis and D. W. Hughes. Am Chem Soc J 64:1231-2 My '42

Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42

Dipole moments of cyclohexanol and cyclohexanone in dioxane. I. F. Halverstadt and W. D. Kumler. Am Chem Soc J 64:1982 Ag '42

Dipole moments of some bile acids. W. D. Kumler and I. F. Halverstadt. Am Chem Soc J 64:1941-3 Ag '42

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Electric moments of inorganic halides in dioxane; phosphorus, arsenic and antimony trihalides. P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:614-17 Mr '42

Electric moments of some organomercuric halides in dioxane. B. C. Curran. bibliog Am Chem Soc J 64:830-3 Ap '42

Ionization constant of propionic acid in dioxane-water mixtures. H. S. Harned and T. R. Dedell. bibliog Am Chem Soc J 63:3308-12 D '41

Mutarotation of α-D-glucose in dioxane-water mixtures at 25°. H. H. Rowley and W. N. Hubbard. Am Chem Soc J 64:1010-11 Ap '42

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

Rate of inversion of sucrose as a function of the dielectric constant of the solvent. C. J. Plank and H. Hunt. bibliog J Phys Chem 45:1403-15 D '41

DIOXANE—*Continued*
Relative acid strengths of formic, acetic, and propionic acids in alcohols and dioxane-water mixtures. M. Kilpatrick and R. D. Eanes. bibliog Am Chem Soc J 64:2065-7 S '42
Solubility of potassium iodate and zinc iodate in dioxane-water mixtures; effect of sorting of solvent molecules. J. E. Ricci and G. J. Nesse. bibliog Am Chem Soc J 64:2305-11 O '42
Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42
System silver nitrate—dioxane—water at 25°. J. A. Skarulis and J. E. Ricci. Am Chem Soc J 63:3429-31 D '41
System sodium nitrate-dioxane-water at 25°. B. Selikson and J. E. Ricci. bibliog Am Chem Soc J 64:2474-6 O '42
Temperature and composition coefficients of the density, refractive index, and viscosity of the methyl alcohol-dioxane system. E. S. Amis, A. R. Choppin and F. L. Padgitt. bibliog Am Chem Soc J 64:1207-12 My '42
Ternary system lithium chloride—dioxane—water. C. C. Lynch. bibliog diag J Phys Chem 46:366-70 Mr '42
Viscosity of formamide-dioxane solutions at 5, 25 and 40°. W. G. Parks, I. M. LeBaron and E. W. Molloy. bibliog Am Chem Soc J 63:3331-6 D '41

DIOXIMES. See Oximes

DIOXOLANE
Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42
Studies on oxygen absorption induced by ether linkages; rates of oxygen absorption by dioxolane and methyldioxolane. R. R. Legault and D. C. Lewis. bibliog Am Chem Soc J 64:1354-6 Je '42

DIOXOLONES
Reductive cleavage of dioxolones by the Grignard reagent. R. C. Fuson and A. I. Rachlin. bibliog Am Chem Soc J 64:1567-71 Jl '42

DIP and strike, Determination of
Instrument for determining the direction of dip in cores taken in inclined holes. C. F. C. Moore and N. F. Brown. diags Inst Pet J 27:419-25 D '41
Nomograms for determination of apparent dips. S. H. Shaw. Can Min J 62:825-6 D '41

DIPALMITIN
Optically active α,β-diglycerides. J. C. Sowden and H. O. L. Fischer. bibliog Am Chem Soc J 63:3244-8 D '41

DIPEPTIDASES
Origin of dipeptidase in a protozoan. W. L. Doyle and E. K. Patterson. Science 95:206 F 20 '42

DIPHENIC acid
Stereochemistry of catalytic hydrogenation; the assignment of *cis*- and *trans*-configurations. R. P. Linstead, S. B. Davis and R. R. Whetstone. Am Chem Soc J 64:2009-14 S '42
Stereochemistry of catalytic hydrogenation; the preparation of the six inactive perhydrodiphenic acids. R. P. Linstead and W. E. Doering. bibliog Am Chem Soc J 64:1991-2003 S '42
Stereochemistry of catalytic hydrogenation; the stereochemistry of the hydrogenation of aromatic rings. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-91 S '42

DIPHENIC anhydride
Stereochemistry of catalytic hydrogenation; the preparation of the six inactive perhydrodiphenic acids. R. P. Linstead and W. E. Doering. bibliog Am Chem Soc J 64:1991-2003 S '42

DIPHENYL
Arsine oxides of naphthalene and biphenyl. G. O. Doak, H. Eagle and H. G. Steinman. bibliog Am Chem Soc J 64:1064-6 My '42
Dissociation of hexaarylethanes; the effect of naphthyl and biphenyl groups. C. S. Marvel and others. Am Chem Soc J 64:1824-5 Ag '42
Fluorine derivatives of biphenyl. M. W. Renoll. bibliog Am Chem Soc J 64:1489-90 Je '42
Formation and rearrangement of the diphenylmethyl ether of *o*-cresol. H. A. Iddles and others. bibliog Am Chem Soc J 64:2154-7 S '42
Halogenation of certain esters in the biphenyl series; the chlorination of 4-phenylphenyl acetate. C. M. S. Savoy and J. L. Abernethy. bibliog Am Chem Soc J 64:2219-21 S '42
Resonance in substituted biphenyls. D. W. Sherwood and M. Calvin. bibliog Am Chem Soc J 64:1350-3 Je '42
Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42
Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42
Ultraviolet absorption spectra of organic molecules; the effect of substituent groups upon the absorption of biphenyl. B. Williamson and W. H. Rodebush. bibliog Am Chem Soc J 63:3018-25 N '41

DIPHENYLAMINE
Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42
Diphenylamine subjected to complete allocation. Oil Paint & Drug Rep 141:37A F 2 '42
Freezing points of binary mixtures of diphenylamine and other organic compounds. O. A. Nelson and L. E. Smith. Am Chem Soc J 64:1057-9 My '42

DIPHENYLBENZENE
Halogenation of *m*-diphenylbenzene; the monoiodo derivative. W. A. Cook and K. H. Cook. Am Chem Soc J 64:2485-6 O '42

***p*-DIPHENYLBENZENE.** See Terphenyl

DIPHENYLBUTADIENE
Studies on substituted diphenylbutadienes; the addition of bromine to 1-*p*-bromophenyl-4-phenyl-1,3-butadiene. K. A. Huggins and O. E. Yokley. Am Chem Soc J 64:1160-1 My '42

DIPHENYL carbazide
Titration of bromide and iodide ions with mercuric nitrate solution using diphenyl carbazide indicator. H. R. McCleary. bibliog Ind & Eng Chem Anal ed 14:31-2 Ja 15 '42

DIPHENYL disulfone
Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

DIPHENYL ether. See Phenyl ether

DIPHENYLETHYLENE
Determination of the angle between the phenyl groups in αα-diphenylethylene, from electric dipole moment measurements. G. E. Coates and L. E. Sutton. Chem Soc J p567-70 S '42

DIPHENYLMETHANE
2:2′-Dihydroxy-5:5′-dimethyl-3-hydroxymethyldiphenylmethane. P. Maitland and D. C. Pepper. Soc Chem Ind J 61:66-7 Ap '42

DIPHENYLNAPHTHALENE
Polyphenylnaphthalenes; 1,2-diphenylnaphthalene. F. Bergmann, H. E. Eschinazi and D. Schapiro. bibliog Am Chem Soc J 64:557-8 Mr '42

DIPHENYLOCTATETRAENE
Contribution to the stereochemistry of diphenylpolyenes. L. Zechmeister and A. L. LeRosen. bibliog Science 95:587-8 Je 5 '42

DIPHENYLPENTACENE
Action of Grignard reagents on certain pentacenequinones, 6,13-diphenylpentacene. C. F. H. Allen and A. Bell. bibliog Am Chem Soc J 64:1253-60 Je '42

DIPHENYLSELENIUM dichloride
Crystal structure of diphenylselenium dichloride. J. D. McCullough and G. Hamburger. Am Chem Soc J 64:508-13 Mr '42

DIPHENYLTHIOCARBAZONE. See Dithizone

DIPHENYLTRIAZENE
Reactions between *sym*-diphenyltriazene and mercury(II) salts. C. M. Knowles and G. W. Watt. bibliog Am Chem Soc J 64:935-7 Ap '42

DIPHTHERIA
Diphtheria, its prevention and control. (Public health rep supp 156) 21p U.S. Public health service, Washington; pa 5c Supt. of doc. '41

Growth-stimulating effect of biotin for the diphtheria bacillus in the absence of pimelic acid. V. du Vigneaud and others. Science 96:186-7 Ag 21 '42

State diphtheria immunization requirements; comparative analysis of statutes and health department regulations. W. Fowler. Pub Health Rep 57:325-8 Mr 6 '42

DIPHTHERIA toxoid
Diphtheria toxoid treatment of leprosy. G. H. Faget and F. A. Johansen. Pub Health Rep 57:249-53 F 20 '42

DIPLOMATIC and consular service
Diplomacy as a career. H. R. Wilson. 52p $1.50 Milton academy, Milton, Mass. '41

DIPOLE moment. See Electric moment

DIPYRRYLMETHANE
Determination of the bridge structure of dipyrrylmethanes; a new method for the estimation of active hydrogen. A. H. Corwin and R. C. Ellingson. bibliog diags Am Chem Soc J 64:2098-106 S '42

Rearrangements of pyrrole rings in the oxidation of dipyrrylmethanes. A. H. Corwin and K. J. Brunings. bibliog Am Chem Soc J 64:2106-15 S '42

Structural investigations upon a substituted dipyrrylmethane; an unusual melting point-symmetry relationship. A. H. Corwin, W. A. Bailey, jr. and P. Viohl. bibliog Am Chem Soc J 64:1267-73 Je '42

DIPYRRYLMETHENES
Steric influences on the aromaticity of dipyrrylmethenes; the synthesis and study of the properties of a di-N-methyldipyrrylmethene. K. J. Brunings and A. H. Corwin. bibliog Am Chem Soc J 64:593-600 Mr '42

DIRECT selling. See Canvassing

DIRECTION finding apparatus
Eavesdropping by the army; bearings taken to determine location of enemy transmitter. A. R. Boone. il Radio N 28:10-11+ S '42

Iron-cored direction-finding loop. il Wireless Eng 19:350 Ag '42

Limits of usefulness of the Adcock direction-finder with *n* masts; abstract. H. W. Breuninger. Wireless Eng 19:480 O '42

Medium high frequency visual ground direction finder; azimuth-indicating radio system. D. S. Little. il diags Aero Digest 40: 70, 73+ Ja '42

What limits the accuracy of the radio direction finder. Electrician 128:101 F 6 '42

See also
Radio beacons

Bibliography

Flight instruments; radio direction finder. J Aeronautical Sci Aeronautical R Sec 9: 55, 57+ D '41

DIRECTIONAL antennas. See Radio antennas—Directional antennas

DIRECTORIES
Phi beta kappa directory, 1776-1941. 1708p United chapters of Phi beta kappa, New York '41

See also
Air conditioning industries—Directories
Book industry and trade—Directories
Engineers—Directories
Labor officials—Directories
Machinery industry—Directories
Physicians—Directories
Radio apparatus industry—Directories
Trade directories

Consult Public affairs information service for list of directories

Bibliography

American business directories. M. D. Veith, comp. 76p U.S. Bur. of foreign and domestic commerce, Washington '42

Union list of selected directories in the San Francisco Bay region. C. L. Hale and M. H. Lathe, comps. (Lib. bul. 19) 26p pa 30c Univ. of California press, Berkeley '42

DIRECTORS. See Bank directors; Corporations—Directors

DIRIGIBLES. See Airships

DISABILITY insurance. See Insurance, Disability; Insurance, Life—Disability provisions

DISABLED
Disabled; state assistance for soldiers and for those disabled at work. Economist 142:249 F 21 '42

Rehabilitation

Back to work? the case of the partially disabled worker. H. Levy. 24p pa 6d V. Gollancz, London '41

British plan for training the disabled. Monthly Labor R 54:407-8 F '42

Conquest of disability. J. C. Hardwick. 63p 2s Student Christian movement press, London '42

Employability of the physically handicapped; abstract. H. H. Kessler. Nat Safety N 45: 81-3 Ja '42; Same. Concrete (mill sec) 50: 155 Ap '42

Employing the disabled. Economist 141:531 N 1 '41

FDR asks creation of rehabilitation board. Comm & Fin Chr 156:1447 O 22 '42

Help the handicapped; abstracts of papers at 6th annual meeting of Industrial hygiene foundation. Safety Eng 82:39 D '41

Rehabilitation of many heart patients possible. W. S. Priest. Nat Underw (Life ed) 46:2+ Mr 20 '42

Restoring and training the physically handicapped. M. M. Walter. Concrete (mill sec) 50:156-7 Ap '42

Theory of occupational therapy for students and nurses. N. A. Haworth and E. M. Macdonald. 132p bibliog(p120-3) $2 Williams & Wilkins '41

Vocational rehabilitation for disabled persons in California. (Bul. v 10, no.8) 42p California state dept. of education, Sacramento '41

DISACCHARIDES
Syntheses of epi-lactose and lactose. W. T. Haskins, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1852-6 Ag '42

DISARMAMENT
Disarmament illusion; the movement for a limitation of armaments to 1907. M. Tate. 398p bibliog(p363-78) $4 Macmillan '42

World armaments race, 1919-1939. N. M. Sloutzki. (Geneva studies v 12, no1) 129p pa 40c Columbia univ. press '41

DISASTERS
Emergency medical service for catastrophes; organization for Detroit metropolitan area and Oakland county. J. S. Lambie. Ind Med 11:248-50 Je '42

Historic accidents and disasters. il diags plan Engineer 172:18-20, 34-5, 66-7, 82-3, 160-2, 178-80, 266-8, 286-8, 306-9, 406-9; 173: 454-6, 465-7, 484-6; 174:206-8 Jl 11-18, Ag 1-8, S 12-19, O 24-N 7, D 12 '41, My 29-Je 12, S 11 '42

DISASTERS—*Continued*

Man and society in calamity; the effects of war, revolution, famine, pestilence upon human mind, behavior, social organization and cultural life. P. A. Sorokin. 352p bibliog(p321-47) $3 Dutton '42

See also
Air raids

DISCO process. See Coal distillation—Disco process

DISCOUNT

See also
Interest

Rates

Federal reserve bank discount rates. Published in monthly numbers of Federal reserve bulletin

Money rates in foreign countries; discount rates of central banks. Published in monthly numbers of Federal reserve bulletin

Reduction in Reserve bank discount rates. Fed Res Bul 28:550 Je '42

DISCOUNT, Cash

Cash discounts in today's market. Management R 30:424-5 N '41

Please make an exception; seven varieties of cash discount appeals. J. D. Cathon. Credit & Fin Management 44:14-16 My '42

DISCOUNT, Employees'

Department stores start fight on fake wholesale and retail sales outlets. Ptr Ink 197: 33-4+ N 14 '41

DISCOUNT, Trade

See also
Price cutting
Price discrimination
Price policies

DISCOUNT companies

London discount companies. Economist 143: sup26-7 S 19 '42

See also
Alexanders discount company
National discount company

DISCOVERIES in science. See Scientific research

DISCRIMINATION in employment. See Employment systems

DISCUSSION

Democracy by discussion. E. S. Bogardus. 59p bibliog(p56-8) pa $1 Am. council on public affairs, 2153 Florida av, NW, Washington, D.C. '42

How to conduct conferences. A. M. Cooper. 191p $1.75 McGraw-Hill '42

See also
Debates and debating

DISEASES

Disease and the social system. A. Guirdham. 239p 10s 6d G. Allen & Unwin, London '42

See also
Arthritis
Cancer
Diabetes
Diarrhea
Epidemics
Heart—Diseases
Infantile paralysis
Infectious diseases
Influenza
Intestines—Diseases
Lungs—Dust diseases
Malaria
Ménière's disease
Meningitis
Mental diseases
Mortality
Pneumonia
Public health
Rheumatic fever
Rocky Mountain spotted fever
Rubella
Sickness
Skin—Diseases
Tuberculosis
Tularemia
Typhoid fever
Typhus fever
Venereal diseases
War and disease
Weil's disease

Statistics

Disabling morbidity among industrial workers, third and final quarter of 1941. W. M. Gafafer. Pub Health Rep 56:2428-9; 57: 588-9 D 19 '41, Ap 17 '42

Disabling sickness among industrial workers, 1941. Monthly Labor R 55:262-3 Ag '42

Frequency and volume of hospital care for specific diseases in relation to all illnesses among 9,000 families, based on nation-wide periodic canvasses, 1928-31. S. D. Collins. Pub Health Rep 57:1399-1428, 1439-60 bibliog(p1459-60) S 18-25 '42

Incidence of pneumonia as recorded in the National health survey. R. H. Britten. Pub Health Rep 57:1479-94 O 2 '42

Morbidity and mortality during 1941 and recent preceding years. Pub Health Rep 57: 819-33 My 29 '42

Prevalence of disease; state and city reports. Published in weekly numbers of Public health reports

See also
Cancer—Statistics
Infectious diseases—Statistics
Mortality—Statistics
Sickness

DISEASES, Industrial

All-inclusive coverage of occupational diseases under the New York workmen's compensation law. Int Labour R 45:157-65 F '42

Background of industrial medicine; Bernardino Ramazzini's De morbis artificum. L. Vaccaro. Nat Safety N 45:34, 36+ My '42

Essentials of occupational diseases. J. V. Reed and A. K. Harcourt. 225p bibliog(p196-212) $4.50 C. C. Thomas, Springfield, Ill. '41

Industrial dermatitis; abstract and discussion. M. W. Goldblatt. Chem & Ind 61:13 Ja 3 '42

Industrial diseases in Great Britain, January-July, 1939-1942. Economist 143:343 S 12 '42

Industrial hygiene and occupational diseases; course outline and digest of lectures. 200p bibliog(p188-96) New York univ, Div. of general education, Center for safety education, New York '41

Occupation hazards and diagnostic signs; a guide to impairments to be looked for in occupations. L. I. Dublin and R. J. Vane. 70p bibliog(p69-70) U.S. Division of labor standards, Washington; 10c Supt. of doc. '42

Occupational and compensable disease; with special reference to tuberculosis. L. Brahdy. bibliog Ind Med 11:147-50 Ap '42

Occupational and related dermatoses; abstracts from the literature for the years 1935 to 1939, inclusive. L. Schwartz and L. H. Warren. (Pub. health bul. 266) 160p U.S. Public health service, Washington; pa 20c Supt. of doc. '41

Occupational disease; diagnosis, medicolegal aspects and treatment. R. T. Johnstone. 558p $7.50 Saunders '41

Occupational diseases of bones and joints. L. Teleky. bibliog il Ind Med 11:164-9 Ap '42

Persistent problem; dermatitis most prevalent occupational disease. C. A. Weslager. bibliog il Nat Safety N 46:26, 58 S '42

Trends in occupational diseases legislation. J. D. Dorsett. East Underw 42:30 D 5 '41

See also
Heat cramps
Lead poisoning
Lungs—Dust diseases
Miners—Diseases and hygiene
Poisons, Industrial
Sickness
Silicosis
Skin—Diseases
Workmen's compensation

DISH towels. See Towels

DISHWASHING

Clean dishes. R Sci Instr 12:618 D '41

New detergent specifications for aluminumware, dishwashing-machines, and manual cleaning. Soap & San Chem 18:37 Ja '42

Sanitation and bacteriology of public eating utensils; an investigation of public eating and drinking establishments in Providence, R.I. M. P. Horwood and P. J. Pesare. Pub Health Rep 57:33-44 Ja 9 '42

Sanitization of tableware. R. C. Strong. bibliog Ind Med 11:10-12 Ja '42

DISHWASHING machines

Application of gas heated water to mechanical dish-washers; with directory of manufacturers. diags Am Gas Assn Proc 1941: 394-410

DISHWASHING machines—*Continued*
Fabricating stainless steel without distortion; making dishwashers at the plant of Josiah Anstince & co. il Steel 111:86, 89-90 Ag 3 '42

DISINFECTION and disinfectants
Amazing new germ killer; application for packaging materials; possible chlorine substitute; Perm-aseptic. il Mod Packaging 15:286, 288, 290+ Ap '42
Antibacterial properties of protamine and histone. B. F. Miller and others. bibliog Science 96:428-30 N 6 '42
Anti-bacterial substances from moulds; citrinin, a metabolic product of penicillium citrinum Thom. H. Raistrick and G. Smith. Chem & Ind 60:828-30 N 22 '41
Anti-bacterial substances from moulds; penicillic acid, a metabolic product of penicillium puberulum Bainier and penicillium cyclopium Westling. A. E. Oxford, H. Raistrick and G. Smith. Chem & Ind 61:22-4 Ja 10 '42
Anti-bacterial substances from moulds; some observations on the bacteriostatic powers of the mould products citrinin and penicillic acid. A. E. Oxford. Chem & Ind 61:48-51 Ja 24 '42
Anti-bacterial substances from moulds; spinulosin and fumigatin, metabolic products of penicillium spinulosum Thom and aspergillus fumigatus Fresenius. A. E. Oxford and H. Raistrick. Chem & Ind 61:128-9 Mr 14 '42
Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42
Bactericidal radiation. A. R. Dennington. il diag Am Dyestuff Rep 31:382-5 Ag 3 '42
Bactericidal radiation. A. Paulus. il diag J Ap Phys 13:300-4 My '42
Consumer angle; a buyer's view of insecticides, disinfectants, waxes, cleaners, moth products, etc. E. Freedman. Soap & San Chem 18:108 Ja '42
Cutting oil disinfectants. J. C. Varley. il Soap & San Chem 18:88-90 O '42
Disinfectants and antiseptics; scientific and technical advances during 1941. E. G. Klarmann. bibliog(75 references) Soap & San Chem 18:99-101, 101A-101B+ Ja '42
Effects of anti-microbial substances of biological origin upon bacterial toxins. E. Neter. Science 96:209-10 Ag 28 '42
Germicidal activity of certain organic compounds. H. L. Cole, C. C. Prouty and E. R. Meserve. Am Chem Soc J 63:3523-4 D '41
Insecticide-disinfectant makers adopt standards for phenolics. Oil Paint & Drug Rep 141:7+ Je 15 '42
Micro-cleanliness in the washroom. C. R. Whittington. il Nat Safety N 44:54+ D '41
N.A.I.D.M. defense emergency specifications for phenolic disinfectants. Soap & San Chem 18:94-5 Jl '42
New trade marks. Published in monthly numbers of Soap and sanitary chemicals
Pathogenic bacteria in public places. W. G. Walter and G. J. Hucker. Soap & San Chem 18:99, 101, 103, 105 F '42
Preparation of substituted mandelic acids and their bacteriological effects. J. L. Riebsomer and others. Am Chem Soc J 64:2080-1 S '42
Present-day tendencies in disinfection. A. H. Dodd. Chem & Ind 61:383 S 12 '42
Production of two antibacterial substances, fumigacin and clavacin. S. A. Waksman, E. S. Horning and E. L. Spencer. bibliog Science 96:202-3 Ag 28 '42
Public health aspects of household insecticides and disinfectants. H. C. Fuller. Soap & San Chem 18:88-90 Ag '42
Raw material situation in coal-tar disinfectants. J. H. Carpenter. Soap & San Chem 18:114-16 Jl '42
Self-sterilizing surfaces; compounding of silver with resins. A. Goetz, R. Tracy and S. Goetz. Science 95:537-8 My 22 '42
Study of bactericidal action; abstract. L. Gershenfeld and V. E. Milanick. Soap & San Chem 18:73-4 Je '42
Synthesis and anti-bacterial properties of alkyl and alkenyl derivatives of 2 : 6-dimethoxybenzoquinone. A. E. Oxford. Chem Soc J p577-8 S '42
Synthesis of *p*-hydroxyphenyl amyl sulfide. E. Miller, F. S. Crossley and M. L. Moore. bibliog Am Chem Soc J 64:2322-3 O '42
Synthetic phenol disinfectants. J. Varley. Soap & San Chem 18:109-12 Je '42
Tests and data on disinfection of air with germicidal lamps. M. Luckiesh and L. L. Holladay. bibliog diags Gen Elec R 45:223-31 Ap '42
Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

See also
Antiseptics
Chlorine
Formaldehyde
Fumigants
Fumigation
Fungicides
Insecticides

also National association of insecticide and disinfectant manufacturers

DISKS
Stresses in, and the deflexion of, circular flat plates, with a central hole, under normal forces. S. Labrow. diags Inst Mech Eng J & Proc 145:Proc 115-25 Je '41; Discussion. 146:Proc 136-40 Ja '42
Virtual masses and moments of inertia of disks and cylinders in various liquids. Y. Yu. diag J Ap Phys 13:66-9 Ja '42

DISKS, Rotating
Disk vibration in turbine wheels. F. G. Hensel. il Power Pl Eng 46:62-3 Mr '42
Eddy currents in a rotating disk. W. R. Smythe. diags Elec Eng 61:Trans 681-4 S '42
Problem of the rotating disk. C. W. Berenda. bibliog Phys R 62:280-90 S 1 '42
Safe speeds for flywheels! J. Marin. diags Machine Design 14:41-4 Ja '42

DISMISSAL wage. See Wages—Dismissal wage

DISNEY, Walt, 1901-
Art of Walt Disney. R. D. Feild. 290p $3.50 Macmillan '42
Walt Disney: great teacher. Fortune 26:90-5+ Ag '42

DISPERSING agents
General properties and commercial uses of anionic dispersing agents. A. G. Richards. Am Dyestuff Rep 31:186-90 Ap 13 '42
Rotenone dispersion; a comparison study of two powdered aluminum silicates used as dispersing agents. H. F. Wilson and G. L. Bender. Soap & San Chem 18:101+ O '42
TDA, a catalyst dispersing agent; effects on quality of concrete. il Am Concrete Inst J 13:382-7 F '42

DISPERSION
Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41
Dielectric investigation of polypeptides; the dispersion of simple amino acid polypeptides. W. P. Conner and C. P. Smyth. bibliog diag Am Chem Soc J 64:1870-8 Ag '42
Dispersion of pigments by ball and pebble mills. E. K. Fischer. bibliog il Ind & Eng Chem 33:1465-71 D '41
Paint dispersions; a particle size distribution approach to solid-liquid systems. S. W. Martin. il Can Chem & Process Ind 26:451-6 Ag '42

See also
Colloids
Particles
Wetting agents

DISPERSION of rays
Configuration of organic coördination compounds of nickel, with especial reference to bis-formylcamphor-ethylenediamine-nickel. H. S. French, M. Z. Magee and E. Sheffield. bibliog Am Chem Soc J 64:1924-8 Ag '42

DISPERSION of rays—*Continued*

Dispersion of optical glass. M. Herzberger. Opt Soc Am J 32:70-7 F '42

Optical rotatory dispersion of (-)tetrahydrofurfuryl alcohol. R. S. Airs and others. Chem Soc J p531-2 S '42

DISPLAY of merchandize

All-America package competition; award to Bates fabrics, inc.; display for showing bedspreads, by means of shadow box and colored transparencies. il Mod Packaging 15:208-9 Ap '42

All-America package competition; award to Burgess battery co.; theft-proof vendor. il Mod Packaging 15:226-7 Ap '42

Award winners, 11th annual all-America package competition. il Mod Packaging 15:226-37 Ap '42

Display evolves from package. il Ptr Ink 198:26 Ja 2 '42

Display gallery. il Mod Packaging 15:74-5 Mr '42

Display to please people. K. Hampton. Elec West 89:54 Jl '42

Display tricks for glamorizing the wallflower product; Consolidated trimming corp. il Sales Management 49:22-4 D 15 '41

Displays that coax women to say, "—and some cookies, too." W. E. Rehmann. il Sales Management 49:30+ N 15 '41

Drug store products have come out of hiding. C. M. Higgins. il Adv & Sell 35:23, 61-2 O '42

Educating the people to war. il Mod Packaging 15:67-70+ Ag '42

How variety stores evaluate sales helps. il Mod Packaging 15:69-73 F '42

Low cost animation puts zip in Devoe & Raynolds window displays. il Sales Management 50:46 My 1 '42

Memory joggers in a hardware store. A. H. Van Voris. il Mod Packaging 16:76, 78+ S '42

Merchandise on cards; packaging and display advertising. il Mod Packaging 15:62 Ja '42

Millions of impressions can become sales. J. J. Jacobson. il Mod Packaging 15:69-71 Ja '42

Plastics competition award to Hutmacher braiding co.; shoelace dispenser. il Mod Plastics 19:78-9 N '41

Plastics competition award to Scheuer art metal mfg. co.; glove and jewelry displayer. il Mod Plastics 19:76-7 N '41

Product display in department stores. G. Cole. il Mod Packaging 15:71-3+ D '41

Seven easy ways to waste money in planning your store displays. F. D. Gonda. il Sales Management 49:46+ D 15 '41

Silent counter salesman. M. D. Penney. il Mod Packaging 16:67-9+ N '42

Toiletries the way men like them; Nelson, Baker and co. il Mod Packaging 15:34-5 Ja '42

Units that made best sales records in 1941. il Mod Packaging 15:67-72+ Mr '42

War's effect on display. F. L. Wertz. il Mod Packaging 16:71-3 S '42

See also

Exhibits, Traveling
Show windows
Showrooms

DISPLAYS, Advertising. See Advertising displays

DISSERTATIONS, Academic

Abstracts of dissertations, presented by candidates for the degree of doctor of philosophy, autumn quarter, winter quarter, 1940-1941, the Graduate school. 237p Ohio state univ, Columbus '41

Abstracts of doctoral dissertations, 1941, the University of Nebraska. 219p $2.50 Univ. of Nebraska, Lincoln '42

Abstracts of theses, faculty bibliography, and research in progress, 1940-1941. v6 332p pa $2 Univ. of Washington, Seattle '42

Doctoral dissertations: abstracts and references (1938). v2 299p Univ. of Iowa press, Iowa City '41

Techniques of thesis writing. R. J. Clinton. 171p bibliog(p 170-1) pa $2.25 OSC cooperative assn. Corvallis, Ore. '41

Bibliography

Doctoral dissertations accepted by American universities, 1933-34 to 1939-40. nos 1-7 in 2v nos 1-4 $5; nos 5-7 $5.50 Wilson, H.W. '41

Doctoral dissertations accepted by American universities, 1941-1942. E. A. Henry, ed. 128p $2.50 Wilson, H.W. '42

Graduate degrees awarded and titles of theses, 1894-1940. C. H. Cantrell, comp. 58p D. H. Hill lib, North Carolina state college of agriculture and engineering, Univ. of North Carolina, Raleigh '41

Theses on Pan American topics. 3d ed rev & enl 170p pa 75c Pan American union, Washington, D.C. '41

DISSOCIATION

Dissociation of hexaarylethanes; ethanes derived from mixtures of triaryl halides. C. S. Marvel and C. M. Himel. Am Chem Soc J 64:2227 S '42

Dissociation of hexaarylethanes; the effect of naphthyl and biphenyl groups. C. S. Marvel and others. Am Chem Soc J 64:1824-5 Ag '42

Dissociation of tetraphenylhydrazine and its derivatives. G. N. Lewis and D. Lipkin. Am Chem Soc J 63:3232-3 N '41

Ionization and dissociation by electron impact; normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42

DISSOCIATION, Electrolytic. See Ionization, Electrolytic

DISSOCIATION, Heat of

Association of benzoic acid in benzene. F. T. Wall and P. E. Rouse, jr. Am Chem Soc J 63:3002-5 N '41

Heat of dissociation of cyanogen. N. C. Robertson and R. N. Pease. J Chem Phys 10:490 Jl '42

Heats of dissociation of some hexaarylethanes. R. Preckel and P. W. Selwood. bibliog diag Am Chem Soc J 63:3397-403 D '41

Strength of carbon-hydrogen and carbon-carbon bonds. D. P. Stevenson. bibliog diag J Chem Phys 10:291-4 My '42

DISSOLUTION. See Solution (chemistry)

DISTANCES

Tables, calculations, etc.

Table of distances between ports via the shortest navigable routes as determined by the Hydrographic office, United States Navy department. 443p pa $1.50 U.S. Hydrographic office, Washington '42

DISTANCES, Astronomical. See Astronomical distances

DISTEARIN

Optically active, α,β-diglycerides. J. C. Sowden and H. O. L. Fischer. bibliog Am Chem Soc J 63:3244-8 D '41

DISTILLATE wells. See Gas, Natural—Distillate wells

DISTILLATION

Apparatus for determining distillation ranges at reduced pressures. C. E. Watts, J. A. Riddick and F. Shea. diags Ind & Eng Chem Anal ed 14:506-7 Je 15 '42

Applications of molecular distillation; commercial production of vitamin A. D. D. Howat. Chem Age (Lond) 46:41-3 Ja 17 '42

Applications of molecular distillation; vitamins D and E. D. D. Howat. bibliog Chem Age (Lond) 46:53 Ja 24 '42

Azeotropism in the system nicotine-water; separation of nicotine from related alkaloids by aqueous distillation. C. R. Smith. Ind & Eng Chem 34:251-2 F '42

Benzole recovery by the oil washing process. L. Silver and G. U. Hopton. Soc Chem Ind J 61:37-45 Mr '42

Chemical engineering developments in grain distillery. A. Herman, E. M. Stallings and H. F. Willkie. flow diags il Am Inst Chem Eng Trans 38:791-809; Discussion. 809-12 Ag '42

DISTILLATION—*Continued*

Determination of moisture in sugar products; corn sugar "70" or "80"; refiners' sirup, final molasses (blackstrap), and hydrol. J. E. Cleland and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 14:124-9 F 15 '42

Distillation practices and methods of calculation. D. F. Othmer. flow sheets il diags Chem & Met Eng 49:84-92 My '42

Molecular distillation. D. D. Howat. diags Chem Age (Lond) 45:311, 323-5; 46:3-6 D 20 '41-Ja 3 '42

Molecular distillation; abstract. W. F. Withers. Chem & Met Eng 49:174 O '42

Primary gaseous products of carbonisation; examination of cellulose, bakelite, glycine, petroleum coke, coal. K. Bolton and others. Chem Soc J p252-63 Ap '42

Recovery of butanol in butanol pulping; effected quantitatively by azeotropic distillation and by extraction with isopropyl ether. A. J. Bailey. bibliog diag Ind & Eng Chem 34:483-5 Ap '42

Semiautomatic fractionation; a rapid analytical method. B. Ferguson, jr. il diag Ind & Eng Chem Anal ed 14:493-6 Je 15 '42

Simultaneous chemical reaction and fractional distillation; isomerization. B. Longtin and M. Randall. bibliog diag Ind & Eng Chem 34:292-5 Mr '42

Some modern chemical engineering processes and their applications. D. F. Othmer. Can Chem & Process Ind 26:15 Ja '42

See also

Alcohol
Coal distillation
Distilleries
Essential oils
Evaporation
Oil distillation
Petroleum distillation
Petroleum refining

Bibliography

Bibliography of nomographs on evaporation, absorption, and distillation. R. Myllynen and D. S. Davis, comps. News Ed 19:1423 D 10 '41

Tables, calculations, etc.

American institute of chemical engineers; student contest problem for 1942; plant for manufacture of aniline oil by the iron-hydrochloric acid reduction process; with prize winning paper by C. C. Neas. flow sheet bibliog Am Inst Chem Eng Trans 38:653-718 Ag '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50 F '42; Abstract. Chem & Met Eng 48:172 N '41; Discussion. Am Inst Chem Eng Trans 38:50-1 F '42

Distillation in a wetted-wall tower; investigation on rectification of ethyl alcohol. A. J. Surowiec and C. C. Furnas. bibliog diags Am Inst Chem Eng Trans 38:53-85 F '42; Abstract. Chem & Met Eng 48:161 N '41; Discussion. Am Inst Chem Eng Trans 38:85-9 F '42

Effect of operating variables on the performance of a packed column still; systems carbon tetrachloride-benzene; toluene-trichloroethylene; methanol-water; acetone-water; ethanol-water. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42

Nomographs for minimum reflux ratio and theoretical plates for separation of binary mixtures. E. H. Smoker. Ind & Eng Chem 34:509-10 Ap '42

Rapid solution of multicomponent distillation problems. G. Karnofsky. bibliog Ind & Eng Chem 34:839-43 Jl '42

Simplified calculation of theoretical plates; fractionation of a binary mixture in which the concentration of one component is small. G. W. Thomson and H. A. Beatty. bibliog Ind & Eng Chem 34:1124-30 S '42

Theory of open-tube distillation columns. J. W. Westhaver. bibliog Ind & Eng Chem 34:126-30 Ja '42

See also

Distillation apparatus—Design

DISTILLATION apparatus

Adapters for collection of distillation fractions under vacuum. J. W. Patterson and R. W. VanDolah. diags Ind & Eng Chem Anal ed 14:511-12 Je 15 '42

Apparatus for determining distillation ranges at reduced pressures. C. E. Watts, J. A. Riddick and F. Shea. diags Ind & Eng Chem Anal ed 14:506-7 Je 15 '42

Apparatus for distillation of corrosive liquids as used for purification of chlorosulfonic acid. A. W. Hixson and A. H. Tenney. diag Ind & Eng Chem Anal ed 14:345 Ap 15 '42

Automatic method for cleaning tar distillation flasks. W. Pechenick. diags Ind & Eng Chem Anal ed 14:344 Ap 15 '42

Binary mixtures for testing fractionating columns at atmospheric and reduced pressures. L. B. Bragg and A. R. Richards. bibliog Ind & Eng Chem 34:1088-91 S '42; Discussion. 34:1533 D '42

Collected notes on chemical safety; explosions in stills and reaction vessels. J. Creevey. Chem Age (Lond) 45:313 D 20 '41

Degrees of freedom in multicomponent absorption and rectification columns. E. R. Gilliland and C. E. Reed. bibliog il Ind & Eng Chem 34:551-7 My '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50 F '42; Abstract. Chem & Met Eng 48:172 N '41; Discussion. Am Inst Chem Eng Trans 38:50-1 F '42

Distillation in a wetted-wall tower; investigation on rectification of ethyl alcohol. A. J. Surowiec and C. C. Furnas. bibliog diags Am Inst Chem Eng Trans 38:53-85 F '42; Abstract. Chem & Met Eng 48:161 N '41; Discussion. Am Inst Chem Eng Trans 38:85-9 F '42

Distillation practices and methods of calculation. D. F. Othmer. flow sheets il diags Chem & Met Eng 49:84-92 My '42

Effect of operating variables on the performance of a packed column still; systems carbon tetrachloride-benzene; toluene-trichloroethylene; methanol-water; acetone-water; ethanol-water. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

Efficient column suitable for vacuum fractionation; concentric tube type. S. A. Hall and S. Palkin. bibliog diags Ind & Eng Chem Anal ed 14:807-11 O 15 '42

High-vacuum still in medicine. K. C. D. Hickman. bibliog il diags Ind & Eng Chem Anal ed 14:250-4 Mr 15 '42

Immersion still head for low-pressure distillation of organic mixtures. A. J. Bailey. diag Ind & Eng Chem Anal ed 14:71 Ja 15 '42

Improved distilling column head. A. Turk and A. Matuszak. diag Ind & Eng Chem Anal ed 14:72 Ja 15 '42

Molecular distillation. D. D. Howat. diags Chem Age (Lond) 45:311, 323-5; 46:3-6 D 20 '41-Ja 3 '42

Molecular still heads. A. J. Bailey. diags Ind & Eng Chem Anal ed 14:177-8 F 15 '42

Packed tower performance at high liquor rates; the effect of gas and liquor rates upon performance in a tower packed with two-inch rings. C. M. Cooper, R. J. Christl and L. C. Peery. bibliog diags Am Inst Chem Eng Trans 37:979-93; Discussion. 993-6 D '41

Performance of some distillation columns for the fractionation of terpenes. W. D. Stallcup, R. E. Fuguitt and J. E. Hawkins. bibliog diag Ind & Eng Chem Anal ed 14:503-5 Je 15 '42

Quick installation of tube thermocouples in cracking still. W. T. D. Brock. Instruments 15:10 Ja '42

DISTILLATION apparatus—*Continued*

Rectification in the presence of an insoluble component. E. M. Schoenborn, J. H. Koffolt. and J. R. Withrow. bibliog il diag Am Inst Chem Eng Trans 37:997-1016; Discussion. 1016-21 D '41

Semiautomatic fractionation; a rapid analytical method. B. Ferguson, jr. il diag Ind & Eng Chem Anal ed 14:493-6 Je 15 '42

Solvent recovery made practical by air-cooled still. il Sci Am 166:253 My '42

Theory of open-tube distillation columns. J. W. Westhaver. bibliog Ind & Eng Chem 34:126-30 Ja '42

Vapor-liquid equilibrium data on ethyl alcohol-water and on isopropyl alcohol-water. W. M. Langdon and D. B. Keyes. bibliog diags Ind & Eng Chem 34:938-42 Ag '42

Control

Oil manometer-manostat to control column throughput. S. A. Hall and S. Palkin. bibliog diags Ind & Eng Chem Anal ed 14:652-4 Ag 15 '42

Design

Design for rectifying column. E. O. Ramler and J. H. Simons. diag Ind & Eng Chem Anal ed 14:430 My 15 '42

Design of still heads for batch fractionation in laboratory columns; the vapor take-off system. A. R. Richards. bibliog diags Ind & Eng Chem Anal ed 14:649-52 Ag 15 '42

General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42

Nomographs for mean driving forces in diffusional problems. E. G. Scheibel and D. F. Othmer. il Ind & Eng Chem 34:1200-8 O '42

Simplified calculation of theoretical plates; fractionation of a binary mixture in which the concentration of one component is small. G. W. Thomson and H. A. Beatty. bibliog Ind & Eng Chem 34:1124-30 S '42

DISTILLERIES

Alcohol speedup. il Business Week p96-7+ S 12 '42

Change to alcohol production may increase hazards. Nat Underw 46:6 Je 4 '42

Clay tile column simplifies distillers' conversion to industrial alcohol. il Brick & Clay Rec 101:23 S '42

Equipment

Ceramics used in building industrial alcohol column. il Cer Ind 39:39-40 O '42

Chemical engineering developments in grain distillery. A. Herman, E. M. Stallings and H. F. Willkie. flow diags il Am Inst Chem Eng Trans 38:791-809; Discussion. 809-12 Ag '42

Getting more alcohol from present facilities; beer still. G. T. Reich. diags Chem & Met Eng 49:129-31 My '42

How to convert brewery to industrial alcohol production. G. T. Reich. flow diags il diag Food Ind 14:46-8+ My '42

Models

Industrial process in miniature. il Mod Plastics 19:54+ Ag '42

Safety measures

Safety really works; National distillers products corp. J. J. Prabulos. il Safety Eng 82:13-14 D '41

Waste

Effects of distillery wastes and waters on the microscopic flora and fauna of a small creek. J. B. Lackey. bibliog Pub Health Rep 57:253-60 F 20 '42

DISTILLERS corporation-Seagrams, ltd.

Investment audit. H. J. Nelson. Barron's 22:13 Jl 13 '42

DISTILLING industries

Carstairs men use more mail and 'phone; less tires and gas. P. J. Kelly. il Sales Management 51:52, 54 Jl 15 '42

Distillers convert. Business Week p30-1 Ag 15 '42

Distillers' woes; OPM commandeers one-third of alcohol capacity for use in industry and in munitions. Business Week p22+ Ja 17 '42

Whiskey converts; middle western plants to switch to military alcohol for the duration. Business Week p17 Je 20 '42

Whisky sales high, but excise tax problem looms. Barron's 22:12 Mr 30 '42

Why distillers plan voluntary rationing. Barron's 22:12 N 2 '42

See also
Alcohol industry
Rum
Whisky
also National distillers products corporation

Finance

Hiram Walker-Gooderham & Worts, new serial debentures for short to medium term investment. Comm & Fin Chr 154:1211 N 27 '41

How National Distillers is adjusting to war. A. B. Wells. il Mag of Wall St 69:654-5, 676-7 Mr 21 '42

Insurance requirements

John Barleycorn hard hit by war. Weekly Underw 147:417 Ag 22 '42

Securities

Favorable outlook for distillers; position of leading liquor stocks. Mag of Wall St 70:504+ Ag 22 '42

Future of whiskey stocks. G. W. Mathis. il Mag of Wall St 71:128-9+ N 14 '42

Liquor companies have favorable earnings prospect; position of leading stocks. Mag of Wall St 69:556 F 21 '42

Canada

Distilleries in Canada to produce alcohol only for war purposes. For Comm W 9:24-5 O 31 '42

DISTRIBUTION (economics)

Coupon age; equalisation of standard of living can be achieved by coupons. Economist 142:744 My 30 '42

Fourteenth Boston conference on distribution, 1942. 94p $3.75 Daniel Bloomfield, director, 80 Federal st, Boston '42

Marketing costs and efficiency. N. H. Engle. Trusts & Estates 75:211-14 S '42

Middleman in the war effort; wholesaler's ability to keep factories going overlooked by production authorities. M. M. Green. Barron's 22:13 S 7 '42

Political economy of consumers' rationing. T. de Scitovszky. R Econ Statis 24:114-24 Ag '42

Revolution in distribution; what's ahead for retailers, middlemen, salesmen? W. Gates. il Mag of Wall St 70:583-5, 618 S 19 '42

U.S. lose peace? easy enough if distribution stays unsolved. V. D. Reed. Ptr Ink 198:13-15 F 27 '42

Who supplies the retailer? W. Mitchell, jr. and W. Hayes. il Dun's R 50:11-12 Jl '42

See also
Chain stores
Cooperation
Market surveys
Marketing

Cost

Distributive costs of consumption commodities. B. M. Fowler and W. H. Shaw. Survey of Cur Business 22:12-17 Jl '42

Open season for middlemen. Barron's 22:6 N 2 '42

DISTRIBUTION function

Calculation of the distribution function. C. W. Ufford and E. P. Wigner. Phys R 61:524-7 Ap 1 '42

DISTRICT bank, limited

Annual meeting of shareholders, 112th, Manchester. Economist 142:161-2 Ja 31 '42

DISULFIDES

Interaction of betaine with primary aromatic amines, organic disulphides, and sodium sulphite. F. Challenger, P. Taylor and B. Taylor. Chem Soc J p48-55 Ja '42

DISULFIDES—*Continued*

Use of Bunte salts in synthesis; the preparation of aliphatic disulfides. H. E. Westlake, jr. and G. Dougherty. bibliog Am Chem Soc J 64:149-50 Ja '42

DISULFONIC acids. See Sulfonic acids

DITCHES

Cotton fabric for erosion control; experiments on roadside slopes and ditches in Mississippi. W. B. King. il Pub Roads 23: 94-6 Jl-S '42

Cross-sectioning clogged drainage ditches. J. F. Mollenkopf. diag Eng N 128:875-6 My 21 '42

Ditching with dynamite. il diags Explosives Eng 20:255-61 S '42

Observations on experimental malaria control drainage ditch linings. J. L. Robertson, jr. and others. Pub Health Rep 57:451-63, pl 1-8 Mr 27 '42

DITHIOCARBAMATES

Action of organic accelerators in Buna S. G. R. Vila. bibliog Ind & Eng Chem 34:1269-76 N '42

DITHIOCARBAMIC acid

Derivatives of dithiocarbamic acid as pesticides. W. H. Tisdale and A. L. Flenner. bibliog Ind & Eng Chem 34:501-2 Ap '42

DITHIODIPHTHALIMIDINE

Dithio-β-*iso*indigo. H. D. K. Drew and D. B. Kelly. Chem Soc J p625-41 O '41

DITHIO-β-*iso*INDIGO. See Dithiodiphthalimidine

DITHIONITES. See Hyposulfites

DITHIOXANTHYLEN

Cleavage of the ethylene linkage by the action of sulphur. A. Schönberg and W. Asker. Chem Soc J p272-4 Ap '42

DITHIZONE

Determination of lead in sugars and sugar products; an adaptation of the diphenylthiocarbazone reaction. T. D. Gray. bibliog il Ind & Eng Chem Anal ed 14:110-14 F 15 '42

Extraction of metals from aqueous solutions with dithizone lead. L. P. Biefeld and T. M. Patrick. bibliog Ind & Eng Chem Anal ed 14:275-8 Mr 15 '42

DITMARS, Raymond Lee, 1876-1942

Tribute. A. G. Ruthven. Science 96:150 Ag 14 '42

DIVERSIFICATION in industry

See also

Products, New

DIVIDENDS

Availability of surplus for dividend purposes. J Account 74:378 O '42

Corporate earnings and dividends, 1941. Fed Res Bul 28:291-8 Ap '42; Excerpts. Comm & Fin Chr 155:1632 Ap 23 '42

Dividend calendar. Published in weekly numbers of Barron's

Dividend casualties; which companies? how much? J. S. Williams. Mag of Wall St 70: 66-7 My 2 '42

Dividend payments in 1940, and dividend receipts by net income classes; tabulation. Nat City Bank p57 My '42

Dividend payments in 1941 of common stocks listed on the New York stock exchange, by type of industry. Mag of Wall St 69:559 F 21 '42; Same. Trusts & Estates 74:198 F '42

Dividend payments of listed stock exchange common stocks during the first three months of 1942; tabulation by industry. Mag of Wall St 70:85 My 2 '42

Dividend prospects in the light of third quarter earnings. J. C. Clifford. il Mag of Wall St 71:67-9, 115-17+ O 31-N 14 '42

Dividend reversal. Business Week p76 Ap 18 '42

Dividends. Published in weekly Monday numbers of Commercial & financial chronicle

Earnings as dividends; source of payment may be illusory. E. L. Maas. Trusts & Estates 74:415-17 Ap '42

Eight companies with long dividend records. J. C. Clifford. Mag of Wall St 71:19-21 O 17 '42

Eight low-price stocks with good dividend yield. Mag of Wall St 69:320-3 D 27 '41

Finds dividends on N.Y. stock exchange shares reached near record in 1941. Comm & Fin Chr 155:568 F 5 '42

First quarter common dividends below year ago. Barron's 22:1 Ap 27 '42

Market evaluation of war earnings and dividends. J. C. Clifford. Mag of Wall St 70: 437-9+ Ag 8 '42

New statistics on quarterly earnings and dividends of large corporations; tables giving annual figures, 1929-1938 and quarterly, 1939-1941. Fed Res Bul 28:214-17, 248 Mr '42 [cont monthly]

NYSE stock dividends approach 1941 levels during first half of 1942. Comm & Fin Chr 156:359 Jl 30 '42

1942 mid-year special security appraisals and dividend forecasts. Mag of Wall St 70: 385-97+, 443-51+, 493-504+, 541-53+ Jl 25-S 5 '42

1942 special security re-appraisals and dividend forecasts. il Mag of Wall St 69:425-37, 485-97, 543-57, 597-607 Ja 24-Mr 7 '42

Oldest common stock dividend records; with year payments began; tabulation. Mag of Wall St 70:189 My 30 '42

Profits and dividends of industrial corporations; new series, quarterly, 1929-1941. Survey of Cur Business 22:21 Ap '42

Randall *v.* Bailey; New York court of appeals. J Account 74:473-7 N '42

Safeguarding against dividend casualties; tabulation covering 1940 earnings, interim earnings, dividends paid or declared to Nov. 18, and current price times dividend ratios. Mag of Wall St 69:191-3, 253-5, 314-16 N 29-D 27 '41

Should your company reduce its dividend? L. O. Hooper. Mag of Wall St 70:554-6+ S 5 '42

Stock market at a glance; New York stock and curb exchanges. Published in weekly numbers of Barron's

Ten companies with long dividend records. J. C. Clifford. Mag of Wall St 70:598-600 S 19 '42

Ten companies with long dividend records. J. C. Clifford. Mag of Wall St 70:643-5 O 3 '42

Total dividends up 8.4% in 1941. Barron's 22:1 F 2 '42

Treatment of noncumulative preferred shareholders with regard to dividends. S. G. Spal. bibliog J Business 15:248-65 Jl '42

Who owns the corporations. R. S. Tucker. Barron's 22:7-8 Ag 31 '42

Year-end extras. Business Week p100 D 6 '41

See also

Corporations—Finance
Securities
Stocks

DIVIDING (machine work)

Jefferson milling machine and tilting dividing head. il Mach 48:170-1 Je '42

Methods of cam milling; use of the dividing head. H. A. Frommelt. il diags Am Mach 86:386-8 Ap 30 '42

DIVI-DIVI

Situation in Colombia. For Comm W 9:26 O 3 '42

DIVING, Submarine

I dive for treasure. H. E. Rieseberg. 331p $2.75 Robert M. McBride & co, New York '42

DIVINING rods

Is there an electrical basis for water divining? abstracts. J. F. Shipley. Engineering 153:113 F 6 '42; Electrician 128:94 F 6 '42

DIVINYL ether. See Vinyl ether

DIVISION of words. See Word division

DIXIE mercerizing company

20 years of progress. E. Mauldin. il Textile World 92:80-1 Mr '42

DOCKERS. See Longshoremen

DOCKS

Air force targets; St Nazaire dock. il plan Engineer 173:305-6 Ap 10 '42

See also

Piers
Terminals

DOCKS—*Continued*

Lighting

Anti-sabotage under dock lighting. diags Elec W 118:976 S 19 '42

DOCOSANE

Higher hydrocarbons; seven alkyl substituted docosanes. F. C. Whitmore, L. H. Sutherland and J. N. Cosby. bibliog Am Chem Soc J 64:1360-4 Je '42

DOCTOR solution

Analysis

Determination of thiosulfate in used doctor solution. K. Uhrig and H. Levin. bibliog Ind & Eng Chem Anal ed 14:547-8 Jl 15 '42

DOCUMENTS

See also

Files and filing (documents, etc.)

Government publications

Decipherment

Deciphering charred documents; abstract. J. Grant. Paper Ind 24:222 My '42

Decipherment of charred documents by use of chloral hydrate and photography; abstract. W. D. Taylor and H. J. Walls. Sci Am 165:340-1 D '41

DOCUMENTS, Preservation of

Protecting documents from espionage and sabotage. J. E. Hoover. Product Eng 13:85 F '42

Protection for valuables. Consumers' Research Bul 9:25-6 Ap '42

DODECYLAMINE

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides and acetates of dodecyl- and octadecylamines. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. Am Chem Soc J 64:97-101 Ja '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine acetates; the surface tension of aqueous solutions of dodecylamine acetate. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:2067-70 S '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine hydrochlorides. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:498-503 Mr '42

Studies on high molecular weight aliphatic amines and their salts; the systems octylamine-, dodecylamine- and octadecylamine-water. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. il Am Chem Soc J 64:1516-23 Jl '42

DODGE, Harry C.

New boss—the army. por Business Week p60 Ag 29 '42

DODGE, Raymond, 1871-1942

Sketch. C. E. Seashore. Science 95:472-3 My 8 '42

DOEHLER die casting company

Another look at your company. Mag of Wall St 70:185 My 30 '42

Bright prospects. H. Lawrence. Barron's 22:5 Je 22 '42

Favored stocks from $10 to $25. Mag of Wall St Manual p12 Ap '42

Favored war stocks. J. J. Hipple. Mag of Wall St 69:440 Ja 24 '42

Good earnings despite higher taxes. S. Devlin. Mag of Wall St 70:519 Ag 22 '42

Listing, etc. Comm & Fin Chr 154:1376 D 6 '41

This labor-management hookup gets things done. J. Garth. il Am Business 12:9-11 Jl '42

DOG food

Containers for dog food. il Mod Packaging 15:78+ Je '42

Dogfood crisis; WPB's order forbidding use of tin cans. Business Week p34+ Mr 7 '42

Let the Argentine feed our dogs. W. L. Day. il Adv & Sell 35:18 S '42

Rover's dry ration; new dehydrated products. il Business Week p39-40 My 30 '42

Rating

Advice on feeding a dog; including a report on canned dog food. Consumers' Research Bul 9:5-7 N '41

DOG repellents

Dog repellents. il Soap & San Chem 18:111, 113+ Ja '42

DOGFISH liver oil

Grayfish liver oil production, British Columbia. For Comm W 6:24 Ja 31 '42

Prices of dogfish oil in British Columbia. For Comm W 6:20 Mr 14 '42

DOGS

Advice on feeding a dog; including a report on canned dog food. Consumers' Research Bul 9:5-7 N '41

Children love Mickey; dog aids in posing children for photographs. F. Kutnewsky. il Am Phot 36:18-19 Mr '42

Origin of the domestication of the dog. M. F. A. Montagu. Science 96:111-12 Jl 31 '42

See also Seeing eye, incorporated, Morristown, New Jersey

DOLLAR

Silver dollars of the United States of America; with a short sketch of the 1804 dollars. A. D. McIlvaine. 35p bibliog(p35) pa $1 Am. numismatic soc., New York '41

DOLLAR-a-year men. See Public officials

DOLLS

Dolls prove the power of miniature; hosiery window displays. M. C. Tucker. il Mod Packaging 15:74-6+ Ja '42

DOLOMITE

Concentration of magnesitic dolomite from Kilmar, Quebec. il diag Can Min J 63:157-65 Mr '42

Constitution of the fired clinkers; abstract. J. R. Rait and A. T. Green. Engineering 154:5 Jl 3 '42

Dolomite bricks for use in steel works. T. Swinden and J. H. Chesters. diags Iron & Steel Inst J 144:105-18, pl 15-16 no 2 '41; Same cond. Blast F & Steel Pl 29:1162-6, [1156-9], 1254-5 O-D '41; Same cond. Engineering 152:317-19 O 17 '41; Excerpts. Metal Prog 41:544 Ap '42

Dolomite to become important source of magnesium; reports, A.I.M.E. meeting in New York. N. C. Rockwood. Rock Prod 45:61 Mr '42

Limestone and dolomite in the chemical and processing industries. O. Bowles and M. E. Jensen. U S Bur Mines Information Circ 7169:1-15 '41; Same abr. Can Chem & Process Ind 25:658-9 D '41

Linings of large basic open-hearth tilting furnaces. A. Jackson. Engineering 154:216-17, 224-5 S 11-18 '42

Magnesium from dolomite by ferrosilicon reduction. D. H. Killeffer. Chem & Eng N 20:369 Mr 25 '42; Same. Iron Age 149:55 Ap 9 '42; Same, with additional data. Rock Prod 45:65+ My '42

Magnesium from lime. N. C. Rockwood. il Rock Prod 45:50-1 S '42

Occurrences and uses of dolomite in the United States. S. F. Colby. map U S Bur Mines Information Circ 7192:1-21 bibliog (p19-21) '41

Open-hearth furnace refractories; discussion. Engineering 153:505 Je 26 '42

Pidgeon ferro-silicon process for magnesium. F. A. Breyer. Chem & Met Eng 49:87 Ap '42

Production of magnesium from dolomite. Engineering 154:59-60 Jl 17 '42

Same quarry, different rocks; resistance of Chicago area dolomites to freezing and thawing. H. B. Willman. il Rock Prod 44:49-52 D '41

DOME mines, limited

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:71+ O 31 '42

DOMES
Domed building fitted to research needs; structure to house cyclotron at University of California. il diags Eng N 128:536-8 Ap 9 '42

DOMES, Concrete
Concrete beehive for munitions storage. F. R. MacLeay. il diags Eng N 128:498-500 Mr 26 '42

DOMESTIC animals
See also
Dogs
Horses
Live stock
Poultry
Sheep
Swine

DOMESTIC appliances
Alternate materials in product design; household and other civilian products. H. R. Clauser. il Metals & Alloys 15:77-9 Ja '42
Reference table of alternates and substitutes. H. R. Clauser, comp. Metals & Alloys 15:80-1 Ja '42
Retailers baffled by war problems; get little help from manufacturers; survey of new-car dealers, tire stores and appliance dealers in ten cities. P. Salisbury. il Sales Management 50:22-4 My 1 '42
Substitutes in home equipment. il diags Product Eng 13:204-13 Ap '42
We want you to sit in on our planning board; dealer suggestion contest; Barlow and Seelig washers and ironers. J. S. Morris. il Ptr Ink 200:21+ S 18 '42
See also
Electric apparatus and appliances, Domestic
Electric cooking
Gas appliances, Domestic
Gas cooking
Refrigerators
Stoves
Washing machines

DOMESTIC engineering
See also
Heating
Hot water supply
Lighting
Plumbing
Sanitary engineering
Ventilation

DOMESTIC finance
See also
Budget, Household

DOMESTIC workers. See Servants

DOMESTICATION
Cause of domestication. W. L. McAtee. Science 96:231 S 4 '42
Origin of the domestication of the dog. M. F. A. Montagu. Science 96:111-12 Jl 31 '42

DOMINICAN REPUBLIC
See also
Banks and banking—Dominican Republic

Commerce

Foreign trade of the Dominican Republic for 1939 and 1940. 13p Pan American union, Washington, D.C. '42

Economic conditions

Dominican Republic gains financial independence. F. M. Stern. Barron's 22:19 Je 29 '42
News by countries (cont). For Comm W 5: 19-20 N 15 '41; 7:16 My 2; 20-1 My 23; 8:15 Ag 1 '42

DONAHUE, John W. 1877-1942
Sketch. por East Underw 43:33 My 1 '42

DOOLITTLE, James Harold, 1896-
Daniel Guggenheim medal awarded to Brigadier General Doolittle. por Aeronautical Eng R 1:119-20 Ag '42
Daniel Guggenheim medal for 1943 awarded to Gen. J. H. Doolittle. Mech Eng 64:633 Ag '42
Medal to General Doolittle. por Aeronautical Eng R 1:84-5 Je '42

DOORS
Standard tests check fire resistance of building materials and doors. R. P. Miller. il Ind Stand 13:247-9 O '42

DOORS, Mechanically operated
Aeroplane hangars with collapsible doors. il diag Engineering 154:247-8, 250 S 25 '42
Collapsible doors for airplane hangars; laminated wood framing; Garner Field, Texas. il diag Eng N 128:772-4 My 7 '42
Remote-control door operators speed handling between plants. il diag Steel 110:76, 78 Je 22 '42

DOORS, Rolling
Combination rolling door and rolling grille. il Ry Age 112:553 Mr 14 '42

DOORWAYS
See also
Lintels

DOPPLER effect
Observations of Doppler effect in short-wave reception field; effects of motion of an aeroplane in neighbourhood of receiving aerial; abstract. J. Grosskopf and K. Vogt. Wireless Eng 18:458 N '41

DORMITORIES
Dormitories; Farm security administration program on Pacific coast. il Business Week p24 N 22 '41
Dormitories for war workers to have forced warm air heating. diags Heating-Piping 14: 422 Jl '42
Dormitories planned for war workers. Am Bld 64:20 Jl '42
Dormitory building, Unity House, Forest Park, Pennsylvania; views and plan. Arch Forum 76:74 F '42
Duration dormitories; notes on the technical problem. F. L. Ackerman. il diags plans Arch Rec 92:32-6 Ag '42
Emergency needs for war-work dormitory housing outlined. H. Emmerich. Am Bld 64:76 Je '42
FPHA dormitories to serve a midwestern bomber plant; views and plans. Arch Rec 92:47 Jl '42
FPHA duration dormitories for industrial war workers; scheme proposed by Paul Nelson, architect. diags plans Arch Rec 92:44-6 Jl '42
Florida training station for Maritime commission. il plans Arch Forum 75:418-20 D '41
PBA residence halls for women, Washington, D.C. il plans Arch Rec 92:40-3 Jl '42
Shelter to speed war work; program of Federal public housing authority. Arch Rec 91:38+ Je '42
Some social aspects of residence halls for college women. H. Q. Stewart. 188p $1.75 Professional & technical press, New York '42
39 prefabricated duration dormitories, Vallejo, Calif.; for single navy yard workers; views, plans, and construction outline. Arch Forum 76:334-6 My '42

DOSIMETERS, X ray. See X rays—Measurement

DOUBLE bonds
Conjugated diolefins by double bond displacement. A. L. Henne and A. Turk. bibliog Am Chem Soc J 64:826-8 Ap '42
Dipole moments as a tool in the determination of structure. E. Bergman and A. Weizmann. Chem R 29:553-92 bibliog(201 references, p588-92) D '41
Effect of silver ion coördination upon the Raman spectra of some unsaturated compounds. H. J. Taufen, M. J. Murray and F. F. Cleveland. bibliog Am Chem Soc J 63:3500-3 D '41
Location of the double bond in clionasterol. W. Bergmann and C. A. Kind. Am Chem Soc J 64:473-4 F '42
Sapogenins; the position of the double bond in acids of the β-amyrin group; glycyrrhetic acid, siaresinolic acid, and acids of elemi resin. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p532-50 S '42
Structure and absorption spectra; further observations on α,β-unsaturated ketones. R. B. Woodward. bibliog Am Chem Soc J 64:76-7 Ja '42
Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

DOUGLAS aircraft company
Another look. il Mag of Wall St 69:152 N 15 '41

DOUGLAS fir
Cork from fir. Business Week p78-9 N 7 '42
Douglas fir poles used on TVA line. Elec W 117:676 F 21 '42
Slash disposal and forest management after clear cutting in the Douglas fir region. J. B. Woods. Pulp & Pa of Can 42:798 D '41

DOW, Alex, 1862-1942
A.S.M.E. Detroit section pays tribute to Alex Dow. por Mech Eng 64:413-14 My '42
Lengthened shadow of one man; tribute. H. Snow. por Edison Elec Inst Bul 10:116 Ap '42
Resolution adopted by Board of trustees of the Edison electric institute. Edison Elec Inst Bul 10:232 Je '42
Sketch. Edison Elec Inst Bul 10:166 Ap '42; por Elec W News ed 117:1099 Mr 28 '42

DOW, Hiram M. 1865-
Heads National conference of petroleum regulatory authorities. por Nat Pet N 34:2 My 27 '42

DOW, Willard Henry, 1897-
Portrait. Business Week p16 D 6 '41

DOW chemical company
Award to the Dow chemical company; recovery of metallic magnesium from sea water. Science 94:556 D 12 '41
Biggest producer of magnesium moving into the plastics field. Barron's 22:20 S 21 '42
Chemical engineering's achievement, 1941 award to Dow chemical company for recovering magnesium from the sea. flow sheet il Chem & Met Eng 48:73-84, 130-3 N '41
Climaxing 50 years of pioneering in chemical engineering; fifth biennial award for chemical engineering achievement presented to Dow chemical company; presentation by A. H. White; acceptance by W. H. Dow. Chem & Met Eng 48:66-7 D '41
Magnesium from the sea. S. D. Kirkpatrick. flow sheet(p130-3) il Chem & Met Eng 48:76-84 N '41

DOW theory
Making money in stock trading; Dow theory and penalties for not following it. Barron's 22:9 N 2 '42

DOWMETAL. See Magnesium alloys

DOWTHERM
New medium for melting-point baths; Dowtherm. A. J. Kamler. Science 95:308 Mr 20 '42
Pipe-line program includes installation of dehydration plants. F. H. Love. il Pet Eng 13:46, 48 S '42

DOYLE, Joseph Henry, 1875-1942
Sketch. por East Underw 43:16+ O 30 '42; Nat Underw 46:1 O 29 '42

DRAFT
Draft and draft controls. E. A. Field. Sheet Metal Worker 33:50, 52, 54 F '42
Observed performance of some experimental chimneys. R. S. Dill, P. R. Achenbach and J. T. Duck. il diags Heating-Piping 14:252-9 Ap '42; Abstract. Sheet Metal Worker 33:50+ S '42; Discussion. Heating-Piping 14:259-60 Ap '42

See also
Blowers
Combustion
Fans, Mechanical
Mechanical draft
Ventilation

DRAFT, Mechanical. See Mechanical draft

DRAFT, Military. See Military service—Labor problems; Military service, Compulsory

DRAFT gears
Draft gear maintenance looks up; improved conditions help railroads reduce freight claims and car damage. G. Q. Lewis. Ry Age 112:821-2 Ap 25 '42
More draft gear bearing area needed. W. C. Fox. il Ry Mech Eng 116:397 S '42

DRAFTING room management
Efficient aircraft print checking. E. Wald. flow chart Aviation 41:139 My '42
Mobilizing the graduate into war work. C. Carmichael. Machine Design 14:52-4 Ap '42

DRAFTING room practice
A.P.I. report on pipe-thread symbols. J. J. Dunn. Am Pet Inst Proc 22(4):136-9 '41
ASA approves standard mechanical symbols for uniform use on drawings. R. L. Young. Ind Stand 13:55-9 Mr '42
Angles in space; their measurement on a direction diagram. H. H. Stevens, jr. diags Product Eng 13:392-4, 443-5 Jl-Ag '42
Art for production's sake; Production illustration, a three-dimensional drawing. il Fortune 25:20+ Je '42
Drafting for machine trades. 5v $19.80 Am. technical soc, Chicago '41
Drafting problem layouts; series B. C. L. Svensen, C. H. Schumann and W. E. Street. 16p, 114p pa $2 Van Nostrand '42
Engineering drawing and mechanism. H. J. Brodie. 241p $2.25 Harper '42
General drafting. V. C. Fryklund and F. R. Kepler. 160p bibliog(p157-8) $1.50 Grosset & Dunlap, New York '42
Graphical symbols for drawings. Heating-Piping 14:448-52 Jl '42
Graphical symbols for use on drawings. Am Water Works Assn J 34:313-27 F '42
Machine lettering speeds drafting. Iron Age 150:38 O 8 '42
Mass production of templates by photography. Comp Air M 47:6820 Ag '42
Methods of template reproduction; photographic, X-ray and electrolytic methods. C. O. Prest. il Aero Digest 40:240 Mr '42
More work from jig borers; method of making drawings. F. O. Hoagland. il diag Iron Age 148:56-8 N 20 '41
Photo-copying methods in the drawing office. il Engineer 173:415-16 My 15 '42
Photographic templates. E. C. Jewett and C. D. Tate. il diags Mech Eng 64:787-92 N '42
Procedure blanks and charts simplify spring design jobs. C. Thumim. tables Product Eng 13:662-4 N '42
Producing templates by a new process. il Aero Digest 41:217+ O '42
Robot draftsman. il Chem & Eng N 20:146 Ja 25 '42
Robot draftsmen at work in the Martin bomber plants; photographic reproduction of engineering drawings. il Automotive & Aviation Ind 86:24-6+ Mr 1 '42
Saving drafting time with dizzy diagrammatics. H. E. Pilkington. diags Chem & Met Eng 49:88-90 O '42
Why of Northrop's engineering-loft technique. F. M. Gibian and W. Chatten. Aviation 41:124 S '42

DRAFTING rooms

Air conditioning

Torpedo boats for the U.S. navy are designed in air conditioned drafting rooms and offices. R. Latimer. il Heat & Ven 39:39-40 S '42

Equipment

Drafting board cranks up and down. il Sci Am 166:65 F '42
Sizes of drawing paper and cloth. diag Engineering 153:196-7 Mr 6 '42

Lighting

Flexible plant for plane production; office building features shadowless daylight drafting room with direct sun-rays controlled by special screens. Eng N 129:594 O 22 '42
Indirect fluorescent for drafting room. il Elec W 116:2072 D 27 '41
Light for a drafting room. il Elec West 88:59 Ja '42
Light for a drafting room. il Elec West 88:61 My '42
Light for drafting. il Elec West 88:110 Je '42
Lighting and seeing in the drafting room. W. G. Darley and L. S. Ickis. bibliog il diags Illum Eng 36:1462-87; Discussion. 1487-91 D '41
Offices are important, too; illustrations. Factory Management 99:86-9 D '41
65 ft.-candle indirect light drafting room. il Elec W 116:1914 D 13 '41

DRAFTING rooms—Lighting—*Continued*

War plant drafting, long-hour lighting. il Elec W 117:1220 Ap 4 '42

Wartime schedules make adequate lighting essential. J. J. Neidhart. il plan Machine Design 14:54-6 Mr '42

DRAFTS

Bank held not liable on customer's draft; responsibility of Empire trust co. through which defendant's drafts on itself were made payable. East Underw 43:24+ Jl 17 '42

DRAIN tile

Drain tile drying rack saves floor space. il diags Brick & Clay Rec 99:36 D '41

Trench diggers help to increase tile manufacturer's profits. il Brick & Clay Rec 101:27-8 Jl '42

DRAINAGE

Building airports on New England's bogs. il diags Eng N 129:153-5 Jl 30 '42

Clogging hazards in underdrains. Eng N 128:400-1, 909 Mr 12, Je 4 '42

Ditching with dynamite. il diags Explosives Eng 20:255-61 S '42

Drainage for mosquito control. il Pub Works 72:21-2 N '41

Drainage of leveed areas in mountainous valleys. G. R. Williams. Am Soc C E Proc 68:3-16 Ja '42; Discussion. 68:143-4, 612-14, 827-36, 1009-12, 1619-22 Ja, Ap-Je, N '42

Drainage of recreation grounds. il diags Pub Works 73:22-4 My '42

Electrical drainage of fine soils; electro-osmotic process; abstract. Pub Works 73:40 S '42

Observations on experimental malaria control drainage ditch linings. J. L. Robertson, jr. and others. Pub Health Rep 57:451-63, pl 1-8 Mr 27 '42

Perforated-pipe underdrains for rapid sand filters. E. A. Schmitt and P. O. Macqueen. Am Water Works Assn J 34:857-75; Discussion. E. A. Hardin. 875-6 Je '42; Correction. 34:1414 S '42

Pipe drains stop an earth slide; St Mary's playground in San Francisco. il Eng N 128:539-40 Ap 9 '42

Soil mechanics applied to soil drainage. J. D. Watson. diags Roads & Sts 85:36-7 Mr '42

Surface runoff determination from rainfall without using coefficients. W. W. Horner and S. W. Jens. diags Am Soc C E Proc 67:533-68 Ap '41; Discussion. 67:1180-2, 1469-89, 1925-32; 68:280-4 Je, O, D '41, F '42

See also

Airports—Drainage
Dredging
Irrigation
Mine drainage
Roads—Drainage
Sewerage

Cost

Earthwork and structures, Montana; unit prices. Eng N 127:853 D 11 '41

DRAINAGE (physical geography)

Ohio stream drainage areas and flow duration tables. C. H. Wall and C. V. Youngquist. maps Ohio State U Eng Exp Sta Bul 111:1-73 '42 (pa 75c)

DRAINAGE, House

Plumbing systems for defense and low-cost housing; with time-saver standards. diags Arch Rec 90:93-5 N '41

See also

Plumbing
Sewerage

DRAINAGE of airports. See Airports—Drainage

DRAPERY

Plastics competition award to Dorothy W. Liebes; plastics in drapery material. il Mod Plastics 19:90-1 N '41

Seven laws of folds. G. B. Bridgman. 63p $2.50 Bridgman publishers, Pelham, N.Y. '42

DRAWING

Hints for artists on the preparation of drawings in ink, pencil and water-colour. C. G. Trew. 111p $1.80 Macmillan '40

Natural way to draw; a working plan for art study. K. Nicolaïdes. 221p $3 Houghton '41

See also

Drafting room practice
Engineering drawing
Graphic methods
Maps
Mechanical drawing

DRAWING boards. See Drafting rooms—Equipment

DRAWING paper

Sizes of drawing paper and cloth. diag Engineering 153:196-7 Mr 6 '42

DRAWING room practice. See Drafting room practice

DRAWINGS

Reproducing drawings; black and white (B.W.) direct printing process. Mech Eng 64:135 F '42

See also

Charcoal drawing

DREDGES

Automatically controlled dredge; sand and gravel plant of Warner co. I. Warner. il diags plan Rock Prod 45:38-41+ Ap '42

Coco Grove dredges have interesting features. G. R. Johnson. il Eng & Min J 143:59-61 Ap '42

Diesels cut dredge costs; Union sand and gravel co. O. Adams. il Rock Prod 45:62-3+ F '42

Floating gravel crushing plant; Richmond sand gravel corp. has Diesel-powered auxiliary plant to crush and screen oversize from two ladder dredges. il Rock Prod 45:52-3 O '42

Hains and Hoffman, seagoing dredges. il diag plans Marine Eng 47:116-24 Ag '42

Moving a 200-ton dredge overland to the new Panama Canal lock site. il Eng N 127:721 N 20 '41

Seagoing hydraulic hopper dredges; abstract and discussion. H. B. Vaughan, jr. Marine Eng 46:98+ D '41

Small-plant performance can be bettered, even in wartime; how efficiency and output of U.S. dredge Savannah were boosted. J. S. Kernachan. il diags Power 86:337-40 Ap '42

Electric equipment

Better power; capacitor installed on gold dredge. Gen Elec R 45:361 Je '42

DREDGING

Dredging the Kennebec river. W. H. O'Connell. il Comp Air M 46:6619-20 D '41

Self-cleaning dewatering screen also separates sand into sizes. il Rock Prod 45:44-5 S '42

Speeds ore shipments by opening up new waterway; new ship canal, Keeweenaw waterway. R. B. Williams. il map Steel 111:96, 98 Ag 3 '42

See also

Coal dredging
Dredges
Gold dredging

DRESS goods

Analysis of 84 qualities of cotton dress prints. M. B. Hays and G. B. Frankenberg. bibliog Rayon 23:620-2, 669 O-N '42

Spun rayon dress fabrics; dyeing of staple acetate mixtures, rayon-wool and cotton-rayon fabrics. B. S. Hillman. Textile Col 64:277-80 Je '42

See also

Dressmaking

DRESS industry

Made in Miami; dress line, representing Florida needlework industry's bid for place in style parade. il Business Week p52+ Ja 17 '42

Small towns become market for branded fashion lines. Ptr Ink 200:34 Jl 17 '42

Advertising

Advertising stresses women's clothes as U.S. morale builder. Ptr Ink 198:28 Ja 30 '42

Dress manufacturer promotes defense stamps. il Ptr Ink 197:55-6 D 26 '41

DRESS patterns. See Patterns (dress)

DRESSING rooms

Interior details: recessed lavatory unit in a powder room. il plans Arch Rec 92:60 S '42

DRESSMAKING

Susie sews; sales of piece goods and patterns. il Business Week p58+ Je 13 '42

DREXEL institute of technology, Philadelphia

Drexel institute of technology, 1891-1941; a memorial history. E. D. McDonald and E. M. Hinton. 336p $3 Drexel inst. of technology, Philadelphia '42

DRIED butter. See Butter, Dried

DRIED eggs. See Eggs, Dried

DRIED food. See Food, Dried

DRIED fruit. See Fruit, Dried

DRIED milk. See Milk, Dried

DRIED vegetables. See Vegetables, Dried

DRIERS

Chemicals affecting loss of drying; by New York paint and varnish production club. Paint Oil & Chem R 104:94-8 N 5 '42; Abstract. Oil Paint & Drug Rep 142:47B O 26 '42

Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42; Abstract. Paint Oil & Chem R 104:10-11 My 7 '42

Fifth ingredient; importance of driers and special agents in war-time paint formulation. A. Minich. Can Chem & Process Ind 26:204-5 Ap '42; Same. Paint Oil & Chem R 104:7-9 My 7 '42

Montreal club continues study of driers. Paint Oil & Chem R 104:92-3 N 5 '42

See also

Drying oils

DRIERS (apparatus). See Drying apparatus

DRIFT

Nebraskan-Kansan drift boundary in Missouri. C. D. Holmes. bibliog maps Geol Soc Bul 53:1479-89 O '42

DRILL (fabric)

Fabrics for military purposes; data on cotton drills and substitutes. il Textile World 92:66 Je '42

DRILLING and boring (earth and rocks)

Cable-tool core barrel facilitates exploration of fluorspar deposits. Eng & Min J 143:54 S '42

Drilling on a 45-degree slope; New Enterprise stone and lime co. B. Nordberg. il Rock Prod 45:37-9 Je '42

Operating tricks with boring machines. Elec W 118:1306+ O 17 '42

Rapid installation of effective deep grounds; well-drilling technique adapted to reaching water table. L. N. Rebsamen. il Elec W 118:762-4 S 5 '42

Sliding plug for drill holes limits zone to be grouted; Shasta dam. il diag Eng N 128:412-13 Mr 12 '42

Stopping leakage under Hales Bar dam. C. H. Vivian. il diags Comp Air M 47:6749-55 Je '42

Unusual set-up for a wagon drill; constructing road between Santa Fe and Taos. il Comp Air M 47:6868 O '42

See also

Drills, Oil well
Excavation
Mining methods
Petroleum—Well drilling
Quarries and quarrying
Rock drills
Tunnels and tunneling
Wells

DRILLING and boring (metal working, etc.)

Automatic screw bushing saves time. F. J. Yunker. diag Am Mach 86:712-13 Jl 9 '42

Boring the large tapered hole in ship rudders. il Mach 48:152-3 F '42

Carboloy introduces small caliber gun drills. il Iron Age 150:64 S 17 '42

Cemented carbide gun drills. W. R. Meyer and W. A. Kimsey. il diags Iron Age 150:53-7 Ag 13 '42

Cuts hardened steels; drill made of a new alloy material called Hardsteel. F. G. Gepfert. il Steel 111:61-2 S 28 '42

Drill jig for synthane bushings. D. I. Krauss diags Am Mach 86:13-14, 59-60 Ja 8, F 5 '42

Drilling radial holes in disks. J. E. Hyler. diag Am Mach 86:1092-3 O 1 '42

Drilling, reaming, and tapping the thousands of holes in condenser tubesheets. il Mach 48:157 F '42

Drilling square and hexagon holes; Watts method for aircraft engine and other machine parts. O. K. Parmiter. il Iron Age 150:54-5 S 10 '42

Drills for hardened steel solve an aircraft production problem. F. G. Gepfert. il Mach 48:215-18 Jl '42

Dundas portable jig-boring equipment. il Engineering 154:246-7 S 25 '42

Grinding rifle drills free-hand. il diags Iron Age 150:58-9 O 15 '42

Holes drilled in the side of a cone. F. C. Hudson. diags Am Mach 85:1266 D 10 '41

Hollow drill speeds micro-sampling. il Iron Age 150:51 Jl 23 '42

Long holes finished accurately in drill jigs. D. I. Krauss. diags Am Mach 86:224 Mr 19 '42

Method of sampling for metallurgical test pieces. C. T. Eakin. il diag Metal Prog 42:207-8 Ag '42

More work from jig borers; method of making drawings. F. O. Hoagland. il diag Iron Age 148:56-8 N 20 '41

New drill cuts production time. F. G. Gepfert. il Aviation 41:130 Ag '42

Non-deforming cylinder boring chuck. C. T. Packer. il Am Mach 86:834 Ag 6 '42

Portable tools; examples of such units in subsidiary applications. il Automobile Eng 32:280-2 Jl '42

Removing broken drills with arc welding technique. H. J. Burnett and C. E. Hensling. il Iron Age 150:58-60+ S 24 '42

Solving a troublesome drilling problem. D. A. Baker. diag Mach 48:144-5 Ag '42

See also

Broaching
Cutting tools
Drilling and boring machinery
Machine shop practice
Metal cutting

Tables, calculations, etc.

Circumference, area, diameter of drill sizes; charts; data sheet. Machine Design 14:77-8 Mr '42

DRILLING and boring machinery

Adaptable air clamps for drilling and tapping machines. il Comp Air M 47:6848 S '42

Automatic control of boring mills obtained by accurately cut screws; Selsyn thyratron and amplidyne apparatus. R. Hillner and K. K. Bowman. il diags Mach 48:138-42 D '41

Barnes two-spindle, deep-hole drilling and boring machine. il Mach 49:233-4 N '42

Barnes two-spindle drilling and boring machine. il Mach 48:167 Ja '42

Baush hydraulic horizontal boring machine. il Mach 48:219 Ap '42

Build own boring mill to save time; Fisher's Ternstedt division. il Steel 111:95 S 14 '42

Builders iron foundry gun-barrel drilling and reaming machine. il Mach 48:164 Ja '42

Carbide tooling of large machines. F. W. Lucht. diags Steel 111:84-6 Ag 24 '42

Double-end machine for headstocks. il Am Mach 86:878-80 Ag 20 '42

Douglas designed aircraft riveters; combination drilling and riveting machines. il Iron Age 150:55 Jl 9 '42

Drill at assembly; drilling machine for assembling Reeves variable speed pulleys. il diag Am Mach 85:1141 N 12 '41

Drilling hardened parts with Hardsteel drills. L. G. Black. il Iron Age 149:54-6 F 26 '42

Hicycle portable drill and reamer. il Engineering 153:487 Je 19 '42

Hollow drill for micro-sampling. C. T. Eakin. il Metals & Alloys 16:118 Jl '42

How to build a drill press. V. W. Palen. diag Power Pl Eng 46:116-17 My '42

Kearns horizontal boring machine. il Engineer 173:356 Ap 24 '42; Automobile Eng 32:190, 191-2 My '42; Engineering 153:447 Je 5 '42

DRILLING and boring machinery—*Continued*

Kent horizontal duplex drilling machine. il Engineering 154:67-8 Jl 24 '42

Landmaco shell boring machine. il Mach 48: 169-70 Je '42

P & W deep-hole drill sharpening attachment. il Mach 48:165 Ag '42

Reclaiming twist drills. G. E. Greaser. il Welding J 21:556-7 Ag '42

Simmons horizontal boring machine. il Mach 48:162-3 F '42

Stamets boring, facing and tapping machine. il Am Mach 86:917 Ag 20 '42

Stokerunit precision boring machine. il Automobile Eng 31:412 N '41

Tools sub for skill; Jacobs aircraft engine co. makers of aircraft engines devise machines enabling green hands to do work of expert mechanics. il Business Week p48-50 N 15 '41

Two-spindle heads for fuze parts; when you can't buy tools, make them. il diags Am Mach 86:832-3 Ag 6 '42

Universal drilling fixture for light work. J. R. Henderson. diags Mach 48:137-8 Ja '42

Vernon vertical milling and jig-boring machine. il Automobile Eng 32:359-60 S '42

See also

Broaching machines
Machine tools
Reamers

Manufacture

Automobile-body stamping plant builds boring mills for tank production. il Mach 49: 149-54 O '42

DRILLS. See Drilling and boring machinery

DRILLS, Oil well

Arc-welding important factor in constructing lightweight drilling equipment. il Pet Eng 14:64 O '42

Cable-tool service extended by good operating practice. F. J. Spang. il Oil & Gas J 40: 103-4+ Ap 30 '42

Care of rotary-rig chains pays dividends. Oil & Gas J 40:71 My 7 '42

Deep-hole cable-tool drilling lines. A. S. Rairden. Pet Eng 14:138+ O '42

D-c oil well drill rig on skids. L. D. Banderob and P. L. Savage. il diag Elec West 89:51-2 O '42

Drill stem on rotary rig cleaned with steam. il Pet Eng 13:44 Je '42

Maintenance of rotary rig is continuous operation. H. F. Simons. il diag Oil & Gas J 40: 86-7+ Ap 30 '42

Portability should be balanced against rig efficiency; with cost data. Oil & Gas J 41: 53 O 29 '42

Portable drilling rig; abstract. T. A. Atkinson. Oil & Gas J 40:44 N 13 '41

Report of subcommittees of the committee on the standardization of rotary-drilling equipment. E. J. Nicklos. diags Am Pet Inst Proc 22(4):144-9 '41

Simplified rule for determining right way to reeve-on drilling line. diags Pet Eng 13:32 F '42

Unitization of Gulf Coast rigs saves time in moving. N. Williams. il Oil & Gas J 41: 31-2 S 17 '42

Use of hardfacing material on rotary tool joints. T. P. Sanders. il Oil & Gas J 40:36, 39+ F 5 '42

DRILLS, Rock. See Rock drills

DRINKING fountains

Drinking fountain standard gives sanitation data. Ind Stand 13:38 F '42

DRINKING vessels

Decay of vibration phenomena of glass bars. J. G. McCann. il diags Am Cer Soc J 25: 409-13 O 1 '42

DRINKING water standards. See Water supply—Standards

DRINKING water systems

Drinking water; making it available on the job. il Nat Safety N 45:162 Mr '42

Electric water coolers. V. V. Elkins. il Refrig Eng 43:80-1+ F '42

Gunga Din now plays his role in modern industry; portable equipment for dispensing water. il Sci Am 166:64 F '42

Refrigeration for drinking water cooling systems. J. F. Kern. Refrig Eng 43:1-8 sec 2 F '42

DRIVE-IN and curb services

Drive-in teller service trend expanding. il Burroughs Clearing House 26:4-5 F '42

Plan drive-in restaurant to take care of large trade. il diags plan Am Bld 63:59+ D '41

DRIVERS, Automobile. See Automobile drivers

DRIVERS, Motor bus. See Motor bus drivers

DRIVERS, Motor truck. See Motor truck drivers

DRIVERS as salesmen

Reviving the zest for selling after a wage adjustment; Nehi of Los Angeles and its driver-salesmen. G. E. Silver. il Sales Management 49:48-9+ D 1 '41

Spreading sells agstone; brightly painted trucks, sales-minded drivers, and spreading equipment. B. Nordberg. il Rock Prod 45:36-7+ My '42

DRIVEWAYS

Important service for the home front; new driveways, aprons, walks and terraces. il diags Am Bld 64:45-6+ Jl '42

Limiting grades for driveways. C. N. Stutz. diag Pub Works 73:28-9 Jl '42

DROP forging. See Forging

DROP reactions. See Microanalysis

DROPPING mercury electrode. See Polarography

DROSOPHILA

Drosophila and speciation. J. T. Patterson. Science 95:153-9 F 13 '42

New agar medium for drosophila culture. M. T. Lewis. Science 96:282 S 18 '42

DROUGHTS

Drought and its effect on the supply of the Portland water district; abstract. H. U. Fuller. Water Works & Sewerage 89:102-3 Mr '42

Emergency water supply pumping with fire engines; drought relief in Hudson, N.Y. J. M. Wardle. il plan Pub Works 73:14-16 Ag '42

Menacing long series of droughts; solar electron theory. H. P. Gillette. Roads & Sts 84:48+ N '41; Same. Water Works & Sewerage 88:571-7 D '41

Mid-west dust bowl vanishes in rain. map Eng N 129:615 N 5 '42

1941 drought and its effect on water supplies in New England; a symposium. map N E Water Works Assn J 56:237-53 Je '42

Unusual events and their relation to federal water policies. W. G. Hoyt. il Am Soc C E Proc 68:211-24 F '42; Discussion. 68:619-24 Ap '42

DRUG factories

Equipment

Flexible production with machines on wheels; St Joseph laboratories, Memphis, Tenn. R. A. Latimer. il Mod Packaging 15:91-3+ My '42

DRUG habit

Report of Committee on drug addiction, 1929-1941 and collected reprints, 1930-1941. 1581p National research council '42 [supply limited]

DRUG stores

Drug store products have come out of hiding. C. M. Higgins. il Adv & Sell 35:23, 61-2 O '42

What drug stores sell; distribution of sales; chart. Dun's R 49:37 O '41

DRUG trade

American pharmaceutical association 90th annual meeting, Denver, Aug. 16-21. Oil Paint & Drug Rep 142:7+ Ag 31 '42

Cook's tour through the maze of the amazing vitamin industry; constitute a third of total drug products values. R. Fyne. il Sales Management 50:18-21 Je 15 '42

Definite collection policy; importance of a systemized routine. W. N. Kuntz, jr. Credit & Fin Management 43:12-13+ D '41

DRUG trade—*Continued*

Management policies by industries; retail druggists. J. J. Shine. il Bankers Mo 59: 18-20+ Ja '42

Packaging drugs; abstract. E. C. Merrill. Chem Ind 50:647-8 My '42

Popguns on the southern front; Sterling products inc. surrendered its Latin-American drug market to Germany's I. G. Farben; now the government wants Sterling to go down and win it back singlehanded. il Fortune 25:90-1, 184+ Je '42

Vitamins and the pharmaceutical industry today. J. W. Clissold. Oil Paint & Drug Rep 141:7+ F 16 '42

See also

Chemistry, Medical and pharmaceutical

McKesson and Robbins, inc.

Merck & company

also American drug manufacturers association; American pharmaceutical manufacturers association; Federal wholesale druggists association; National wholesale druggists association

Advertising

Bromide backfire; five makers of headache remedies cited by FTC. Business Week p22+ O 31 '42

Pharmaceutical specialties: regulations governing advertising established in Brazil. For Comm W 7:10-11 My 16 '42

Finance

Assured business in war and peace; Sterling Products sales continue to expand. C. MacDonald. Barron's 22:18 S 7 '42

Drug company sales show further gains. Barron's 22:12 Je 8 '42

Investment audit of E. R. Squibb & sons. H. J. Nelson. Barron's 22:13 F 23 '42

Tire and drug reports by SEC Survey of American listed corporations. Comm & Fin Chr 155:2308 Je 18 '42

United Drug outlook changing. R. B. Cole. Barron's 22:7 S 28 '42

Insurance requirements

Protection given a drug store by each type of insurance. J. J. Shine. Bankers Mo 59: 19-20 Ja '42

Regulation

Drug control tightened, 1941. Oil Paint & Drug Rep 141:42 Ja 12 '42

Export license rules revised on less than $25 shipments. Oil Paint & Drug Rep 142:3 Jl 6 '42

Medicinal exports require new license. Oil Paint & Drug Rep 141:66 F 16 '42

See also

Drugs—Laws and legislation

Securities

Mixed outlook for the drug companies. B. M. Fullerton. il Mag of Wall St 70:81-3 My 2 '42

Significant developments affecting business and individual corporations. Barron's 22:12 F 9 '42

Statistics

Botanical drugs, spices, and gums. Published in weekly numbers of Oil, paint and drug reporter

Drugs and fine chemicals. Published in weekly numbers of Oil, paint and drug reporter

Synthetic medicinals production, 1941; with comparisons for 1940. Oil Paint & Drug Rep 142:64 S 7 '42

Australia

Australia's stimulated industry. For Comm W 9:27 O 24 '42

Brazil

Pharmaceutical specialties: regulations governing advertising established. For Comm W 7:10-11 My 16 '42

California

Photofinish fight; Coast druggists prepare to defend their film business from mail order competition. Business Week p87+ S 12 '42

Canada

Canadian war controls. C. H. Lander. Oil Paint & Drug Rep 142:57-60 O 5 '42

Great Britain

See also

Boots pure drug company

India

Drug control in India. Science 95:596-7 Je 12 '42

Latin America

Popguns on the southern front; Sterling products inc. surrendered its Latin-American drug market to Germany's I. G. Farben; now the government wants Sterling to go down and win it back singlehanded. il Fortune 25:90-1, 184+ Je '42

U.S. company wages all-out war to smash Nazi control of Latin America drug outlets; Sterling products seizes I. G. Farbenindustrie propaganda machine. G. A. Nichols. il Ptr Ink 198:13-15, 48+ F 13 '42

New Jersey

National association of retail druggists, 14 New Jersey associations indicted for fixing prices. Oil Paint & Drug Rep 141:7+ Mr 30 '42

New York (state)

See also New York board of trade—Drug, chemical and allied trades section

United States

A.M.A. cuts in; fight over which manufacturers may get scarce drugs. Business Week p58 Ap 25 '42

American pharmaceutical manufacturers association 34th annual meeting, Hot Springs, Va. June 8-11. Oil Paint & Drug Rep 141:55-61 Je 15 '42

Dawn of another day. C. W. Dunn. Oil Paint & Drug Rep 141:57-9 Je 15 '42

Drug casualties; restrictions on use of botanicals deal hard blow to proprietary products. Business Week p47-8 Jl 18 '42

Drug industry's place in the war effort. L. W. Hutchins. Oil Paint & Drug Rep 142: 46 O 5 '42

Drug supply group named to aid WPB. Oil Paint & Drug Rep 141:3+ Ap 13 '42

Drug supply line. Business Week p24+ D 13 '41

Drug wholesaling report reflects effects of war. I. H. Bander. Oil Paint & Drug Rep 141:7, 59 My 4 '42

Drugs and fine chemicals, 1941. Oil Paint & Drug Rep 141:68-73 Ja 12 '42

Fair-trade blitz; indictment against National wholesale druggists' assn. Business Week p50-1+ F 21 '42

Federal wholesale druggists discuss problems of supply at midyear meeting. Oil Paint & Drug Rep 141:7+ F 9 '42

McKesson & Robbins files motion in drug trust suit. Oil Paint & Drug Rep 141:4+ Ap 27 '42

National wholesale druggists' association indictment text; with comment by H. Harper, counsel. Oil Paint & Drug Rep 141:3+ F 16 '42

Pharmaceutical manufacturers pledge full efforts for war. Oil Paint & Drug Rep 140: 7, 36+ D 15 '41

Wartime problems; forum at meeting of National wholesale druggists association. Oil Paint & Drug Rep 142:48+ O 5 '42

DRUG trade conference, National. See National drug trade conference

DRUGS

All-America competition; award to Sears, Roebuck and co. il Mod Packaging 15:160-1+ Ap '42

DRUGS—*Continued*

All-America package competition; award to Sharp & Dohme, inc.; Spasaver bottle. il Mod Packaging 15:156-7+ Ap '42

Botanical drug status; abstract. S. B. Penick. Oil Paint & Drug Rep 141:62 My 11 '42

Cellulose wadding molds and pads for packaging pharmaceuticals. il Mod Packaging 15: 60 Ja '42

Drug and other special plant possibilities of the Americas. D. M. Crooks. Oil Paint & Drug Rep 142:7, 55 Ag 31; 7+ S 7 '42

Drug casualties; restrictions on use of botanicals deal hard blow to proprietary products. Business Week p47-8 Jl 18 '42

Foresight in drugs; adequate supplies assured. Barron's 22:9 Mr 23 '42

Librarian's equity in a new drug application. C. Pfeiffer. Special Lib 33:288-90 O '42

Maintaining supplies of botanicals. T. Lewis. Oil Paint & Drug Rep 140:7+ D 15 '41

Pharmaceutical supply conditions; comments contributed by various authorities to the A.P.M.A. convention. M. I. Smith and others. Oil Paint & Drug Rep 141:3+ Je 22 '42

Resources of Anglo-Egyptian Sudan. For Comm W 8:25 Ag 8 '42

Substitute drugs. Science 95:sup10 Mr 6 '42

Textbook of materia medica, pharmacology and therapeutics. H. N. Wright and M. Montag. 2d ed rev 647p $3 Saunders '42

United States looks south for drug supplies. For Comm W 7:35 My 23 '42

See also

Anticonvulsants
Antispasmodics
Chemistry, Medical and pharmaceutical
Diethylstilbestrol
Digitalis
Drug trade
Hypnotics
Marihuana
Narcotics
Nux vomica
Pharmacology
Pills
Poisons
Quinine
Sulfallantoin
Tablets (medicine)

Analysis

Rapid spectrographic determination of minute amounts of arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

Laws and legislation

Bromide backfire; five makers of headache remedies cited by FTC. Business Week p22+ O 31 '42

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:917-31 Je 19 '42

Glandular preparations held inert by F.D.A. Oil Paint & Drug Rep 140:3+ D 15 '41

Habit-forming drug labeling defined; naming habit drugs. Oil Paint & Drug Rep 140: 5+ N 24 '41

Munitions of health. A. L. Davidson. Can Chem & Process Ind 26:432, 434+ Jl '42

New aspects of research and law; the new Food, drug and cosmetic act. H. A. Toulmin, jr. Chem Ind 50:758-9 Je '42

Trademark rescue; FDA regulation opposed by drug industry. Business Week p48+ N 29 '41

Vitamins on label. Business Week p48+ My 16 '42

Manufacture

American pharmaceutical co. installs cooling and dehydration equipment. H. J. Bragger. flow diag il plan Heat & Ven 39:86-9 Ja '42

Sharp & Dohme, inc. air conditioning indispensable in handling hygroscopic pharmaceuticals. il Heat & Ven 39:78-80 Ja '42

Sterilized air cuts illness, gives us better products; Bristol-Myers co. H. C. Jackson. il diag Factory Management 99:81-2 D '41

Prices

Chemicals, oils, and drugs price records, 1935, 1937, 1939-1941; tabulation. Oil Paint & Drug Rep 141:50 Ja 12 '42

Chemicals, oils, and drugs price records, 1935, 1937, 1939, 1941, and first quarter, 1942. Oil Paint & Drug Rep 141:39 Mr 30 '42

Standards

New standards adopted for totaquine; abstract. E. F. Cook. Science 96:sup10 O 16 '42

DRUNKENNESS

Acute alcoholic intoxication; a critical review. H. W. Newman. 207p $2.50 Stanford univ. press '41

Drunks are square pegs. C. Clapp, jr. 118p $1.50 Island workshop press, New York '42

DRY cleaning. See Cleaning

DRY docks

Big dry dock for Cape Town. Engineer 173: 468-9 Je 5 '42

Drydock concreting by belt conveyor. il plan Eng N 127:736-8 N 20 '41

Dry-dock suction chamber; model-prototype conformity. C. B. Patterson. diags Am Soc C E Proc 68:1295-1300 O '42

Evolution of tremie-placed concrete dry docks. F. R. Harris. il diags Civil Eng 12:309-12 Je '42

Navy drydocks make construction history. il(insert) Eng N 128:472 Mr 26 '42

Navy graving dock built offshore in the dry; dredging, wells, pumps, etc. used to dewater site. E. C. Seibert. il diag Eng N 127:871-4 D 18 '41

Navy's drydock plants grow apace with fleet. Franklin Inst J 233:40 Ja '42

New 3000-ton railway drydock at Halifax. Marine Eng 47:134 Mr '42

U.S. Coast guard adds new floating drydock to facilities at Curtis bay. il Marine Eng 47:156+ Ag '42

DRY goods

Dry goods chains face supply factor. Barron's 22:12 Mr 2 '42

See also

Department stores
Hosiery
Knit goods
Textile fabrics

also Wholesale dry goods institute

DRY goods institute, Wholesale. See Wholesale dry goods institute

DRY ice. See Carbon dioxide, Solid

DRYING

Determination of moisture in sugar products; corn sugar "70" or "80"; refiners' sirup, final molasses (blackstrap), and hydrol. J. E. Cleland and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 14:124-9 F 15 '42

Determination of moisture in sugar products; filter paper method for corn sirup. J. W. Evans and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 13:855-7 D 15 '41

Determination of moisture in sugar products; maltose and dextrose. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:27-30 Ja 15 '42

Determination of moisture in sugar products; use of Filter-Cel for corn sirup. J. E. Cleland and W. R. Fetzer. bibliog il diags Ind & Eng Chem Anal ed 13:858-60 D 15 '41

Determination of the drying rates of thin films. G. Rieger and C. S. Grove, jr. bibliog il diags Ind & Eng Chem Anal ed 14: 326-33 Ap '42

Develop infra-red seed conditioner. J. E. Nicholas. il Elec W 117:1224 Ap 4 '42

Drying Epsom salt. Eng & Min J 143:73 Ap '42

Drying heat-sensitive substances; a modified flash-drying system. W. C. Rongsted, J. B. Gottfried and L. C. Swallen. flow sheet Ind & Eng Chem 33:1544-6 D '41

Drying of solids by through circulation. W. R. Marshall, jr. and O. A. Hougen. il diags Am Inst Chem Eng Trans 38:91-121 F '42; Abstract. Chem & Met Eng 48:161-2 N '41

Drying processes with gas heat. D. D. Beach. Chem & Eng N 20:740-1 Je 10 '42

Drying time recorder. diag News Ed 19:1506 D 25 '41

DRYING—*Continued*
Forced air drying of concrete blocks; abstract. P. M. Woodworth. il Rock Prod 45:84-5 Mr '42
Forced air drying of concrete masonry units. il Concrete 50:10-11, 18+ Je '42
Green sand molds dried by infra red lamps. L. M. Duryee. il Foundry 70:134+ Ap '42
Heat exchange and material exchange in drying moist materials; abstract. E. Kirschbaum and K. Kienzle. Chem & Met Eng 48:174 N '41
Hop picking and drying; electrical methods. il Elec R (Lond) 130:461-3 Ap 10 '42
Industrial uses of radiant heating. R. Quarendon. il Engineer 173:531-3 Je 26 '42
Infra-red radiation. A. E. Tooke and H. W. C. Gatehouse. il diag Elec R (Lond) 130:137-41, 169-72 Ja 30-F 6 '42
Principles and practice in drying of solids. A. Weisselberg and T. R. Olive. diags Chem & Met Eng 49:93-102 My '42
Progress in gas utilization research during 1941; investigation of infra-red ray drying and baking with gas. Am Gas Assn Proc 1941:425-6
See also
Bricks—Drying
Clay drying
Dehydration
Drying apparatus
Paint—Drying
Paper drying
Textile drying

DRYING (crops)
Alfalfa dehydrating helps farmers. M. F. Peters. il Gas Age 90:22-3 S 10 '42
Electricity and haymaking; drying of grass by artificial heat. il Electrician 129:323-4 S 25 '42

DRYING (fruits and vegetables)
Clay plants urged to investigate food dehydration possibilities. Brick & Clay Rec 101:11-12 S '42
Dehydrating vegetables; abstract. W. V. Cruess. Science 96:sup8+ S 11 '42
Dehydration methods used in California. E. M. Mrak. il diag Food Ind 14:50-2 Ag '42
Dehydration of fruits and vegetables; abstract. W. V. Cruess. Can Chem & Process Ind 26:587 O '42
Dehydrators' day; interest in process rises. Business Week p58 Mr 21 '42
Dryers for dehydrating foods! possibilities in kiln and dryer systems of brick plants. il Brick & Clay Rec 101:11-12 Ag '42
Drying of foods. W. R. Marshall, jr. bibliog il Heating-Piping 14:527-31, 588-91+, 671-3 S-N '42; Discussion. 14:658 N '42
Effect of initial drying temperature on the apparent lignin content of plant tissues; abstract. D. MacDougall and W. A. DeLong. Food Ind 14:109 Je '42
Food for fighters; new dehydration process. A. R. Boone. il Sci Am 167:20-2 Jl '42
Home-drying fruits and vegetables by electricity. L. W. Gray. il Elec W 118:1316+ O 17 '42
How Canada dehydrates foods. H. C. Aitken. diags Food Ind 14:41-2 My '42
Pointers on dehydration given at conference at University of California. Food Ind 14:74-5 Je '42
Pointers on dehydration given by technologists; symposium sponsored by American institute of nutrition. Food Ind 14:76-7 My '42
Preservation of fruits and vegetables by commercial dehydration. E. M. Chace, W. A. Noel and V. A. Pease. U S Agric Circ 619:1-46 bibliog(p41-6) '41
Tunnel dehydraters and their use in vegetable dehydration. W. B. Van Arsdel. bibliog diags Food Ind 14:43-6+ O; 47-50+ N '42
Vegetable dehydrating plants big users of gas. A. R. Carter. Am Gas J 156:12 Ap '42
What's known today about dehydrating vegetables. W. V. Cruess and E. M. Mrak. bibliog il diags Food Ind 14:57-60 Ja; 41-3+ F; 48-9+ Mr; 57-9+ Ap; 43-5+ My '42
See also
Food, Dried

Study and teaching
Two dehydration schools held; intensive two-week training given at Albany, Calif. and Rochester, N.Y. Food Ind 14:73 N '42

DRYING (meat)
Dehydration of meat; abstract. H. R. Kraybill. Can Chem & Process Ind 26:587 O '42
Develops dehydrating method for small meat plants; Griffith laboratories. E. S. Stateler. il Food Ind 14:52-3 N '42

DRYING agents
Drying agent; Florite desiccant. diags Gen Elec R 45:303 My '42
See also
Driers
Drying oils
Silica gel

DRYING apparatus
Blower device dries 200 rubber gloves an hour. il Elec W 116:1586 N 15 '41
Bridges-Wilson food dehydrator. diag Food Ind 14:95 Jl '42
Centrifugal dryer; recovering 10-mesh slurry carbon; preparation-plant, Sentry coal mining co., Madisonville, Ky. J. H. Edwards. il Coal Age 46:47 N '41
Ceramic dryers can dehydrate foods! il Cer Ind 39:23-4 S '42
Control of radiant energy in paint drying ovens. R. Wysocki. Metal Finishing 39:704-5 D '41
Direct radiant drying speeds application of japan and other heavy synthetic finishes. D. A. Jacobson. il diag Steel 110:72, 74 F 23 '42
Driers speed production of tracer bullets. Refrig Eng 44:175 S '42
Drying of foods. W. R. Marshall, jr. bibliog Heating-Piping 14:588-91+, 671-3 O-N '42
Drying of solids by through circulation. W. R. Marshall, jr. and O. A. Hougen. il diags Am Inst Chem Eng Trans 38:91-121 F '42
Electric energy for drying grass. Elec W 117:1036 Mr 21 '42
Experimental dryer; C. O. Bartlett & Snow company. il Chem Ind 50:649 My '42
Factors influencing the performance of rotary dryers. C. F. Prutton and others. bibliog il diags Am Inst Chem Eng Trans 38:123-40, 841-62 F, Ag '42; Discussion. 38:140-1, 251-7, 863-4 F, Ap, Ag '42
Forced air drying of concrete blocks; abstract. P. M. Woodworth. il Rock Prod 45:84-5 Mr '42
How Canada dehydrates foods. H. C. Aitken. diags Food Ind 14:41-2 My '42
How eggs are dried; methods and standards. H. A. Mulvany. il Food Ind 13:50-2+ D '41
How friction and forced draft affect stratification in kilns and dryers. E. Ledoux. diags Chem & Met Eng 49:92-5 Ja '42
Humidity control system in dryer will pay for itself in a year; Mason City (Ia.) brick & tile co. il Brick & Clay Rec 100:44+ Mr '42
Infra-red developments speed war production. P. H. Goodell. il diag Elec W 118:80-2 Jl 11 '42
Laboratory apparatus for controlled experimental drying of foods; abstract. E. C. Ritchell, E. L. Piret and C. A. Mann. Food Ind 14:101 Ap '42
Low temperature vacuum drying apparatus. D. H. Cook. diag J Chem Educ 19:427+ S '42
Manure dehydrator a profitable specialty; James G. Clark, sheet metal contractor. il diags Sheet Metal Worker 33:53-5 Ja '42
Method developed for dehydrating meat. Food Ind 14:46 Jl '42
Milk drying under war conditions. C. C. Van Leer, jr. bibliog Chem & Eng N 20:276-8 F 25 '42
Modern soap driers; abstract. Soap & San Chem 18:58 Ja '42
New design dehydrators. diags Food Ind 14:93 Je '42
Principles and practice in drying of solids. A. Weisselberg and T. R. Olive. diags Chem & Met Eng 49:93-102 My '42

DRYING apparatus—*Continued*

Stopper rod drying oven. H. T. Klein. il diags Steel 109:93-4 D 1 '41

Swift puts meat dehydration on a production basis. E. S. Stateler. il diags Food Ind 14:47-9 O '42

Temperature- and humidity-controlled dryer for a chemical engineering laboratory. R. M. Schaffner and J. Coull. diags Ind & Eng Chem Anal ed 14:590-2 Jl 15 '42

Temperature control for dryers. diag Heating-Piping 14:sup124-5 N '42

Tunnel dehydraters and their use in vegetable dehydration. W. B. Van Arsdel. bibliog diags Food Ind 14:43-6+ O; 47-50+ N '42

Vacuum spray dehydrating system. diag Food Ind 14:97 Jl '42

Waste heat dryer; abstract. L. R. Whitaker. plan Brick & Clay Rec 100:33-4 My '42

What's known today about dehydrating vegetables. W. V. Cruess and E. M. Mrak. bibliog il diags Food Ind 14:41-3+ F '42

Will develop new dehydrater. Food Ind 14:76 Ap '42

See also

Centrifuges

Electric heating, Industrial

Kilns

Paper drying

Safety measures

Cause and prevention of explosion hazards; unburned fuel-air mixtures in boilers, ovens and driers. T. A. Cohen. il diags Food Ind 14:58-9+ Je '42

Textiles

Carbonizing woolen cloth with infra-red lamps. diag Rayon 23:177 Mr '42; Same cond. Textile World 92:90 Mr '42

Hunter high-speed tenter dryer. il Textile World 92:89 Mr '42

Use of infra red-ray gas burners in the textile industry. J. A. Fulton. il Rayon 23:344 Je '42

DRYING oils

Cloud point of varnish resins in drying oils. P. O. Powers. bibliog Ind & Eng Chem Anal ed 14:387-91 My 15 '42

Conjugated drying oil developed by Woburn. Oil Paint & Drug Rep 141:7+ Ja 26 '42

Drying oil requirements for our victory program. E. T. Trigg. Paint Oil & Chem R 104:11, 37-8 Ap 9 '42

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

Fats and oils: there's time to do a job; intelligent rationing, planned conservation can head off grave scarcities. il Fortune 25:68-71+ Ap '42

Polymerization of drying oils; comparative rates of polymerization of esters of isomeric octadecatrienoic acids at 275°C. in vacuum. W. C. Ault and others. bibliog Ind & Eng Chem 34:1120-3 S '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:16+ Mr 12 '42

Quick-drying paints produced from domestic materials. Sci Am 167:35 Jl '42

Synthesizing drying oils; process of producing conjugation in unconjugated polyenes. G. O. Burr. Oil Paint & Drug Rep 140:3+ D 29 '41; 141:3+ Ja 5; 7+ Ja 12; 7, 38A-38B Ja 19 '42

See also

Castor oil

Linseed oil

DUBLIN, Louis Israel, 1882-

Sketch. East Underw 43:6 Je 5 '42

DUBUQUE, Iowa

Bridges

Sand fill reduces weight of bridge pier. il diags Eng N 129:296-8 Ag 27 '42

DUBUQUE fire and marine insurance company

Company analysis. Spectator (Property ed) 7:30-1 Ap 30 '42

DUCK (textile)

Axminster loom conversion; substitute for duck in military and essential civil uses. H. E. Reed. il Textile World 92:68-9 Je '42

Conversion of jacquard looms to weaving duck; abstract. T. W. Mullen. Textile World 92:122 Jl '42

Determining the deterioration of cellulose caused by fungi; improvements in methods. G. A. Greathouse, D. E. Klemme and H. D. Barker. bibliog il Ind & Eng Chem Anal ed 14:614-20 Ag 15 '42

How to make cotton duck; adapting various types of looms. diag Textile World 92:61-4 Ap '42

Making cotton ducks to meet government specifications. il Textile World 92:105-6 F '42

Weaving duck on carpet looms. il Textile World 92:69+ My '42

See also

Tarpaulins

DUDDELL, William DuBois, 1872-1917

William DuBois Duddell. Power Pl Eng 46:89 Jl '42

DUDDELL medal

Response by Dr William D. Coolidge in accepting the Duddell medal at the meeting of the American physical society, May 1, 1942. J Ap Phys 13:478-80 Ag '42

DUHEM, Pierre Maurice Marie, 1861-1916

Methodology of Pierre Duhem. A. Lowinger. 184p bibliog(p173-5) $2.25 Columbia univ. press '41

DUKE, A. Morgan, 1891-1942

Sketch. East Underw 43:8 S 25 '42; por Nat Underw 46:69 S 24 '42; por Nat Underw (Life ed) 46:5 S 25 '42; Weekly Underw 147:759+ S 26 '42

DUKE, James Buchanan, 1856-1925

Tobacco tycoon. J. K. Winkler. 337p $3 Random house, 20 E. 57th st, New York '42

DULCITOL

New dibenzylidene dulcitol (2,3,4,5-dibenzylidene-dulcitol). W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:136-7 Ja '42

Second 2,3,4,5-dibenzylidene-dulcitol. W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:137-40 Ja '42

Structure of dibenzylidene dulcitol (1,3:4,6-dibenzylidene-dulcitol). W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:132-6 Ja '42

Structure of dimethylene dulcitol (1,3:4,6-dimethylene-dulcitol). R. M. Hann, W. T. Haskins and C. S. Hudson. Am Chem Soc J 64:986-7 Ap '42

Structure of di-*o*-nitrobenzylidene-dulcitol (1,3:4,6-di-*o*-nitrobenzylidene-dulcitol). R. M. Hann, W. T. Haskins and C. S. Hudson. bibliog Am Chem Soc J 64:1614-15 Jl '42

DUMAS method. See Nitrogen—Analysis

DUMB (term)

Has the meaning of dumb changed? E. N. Teall. Inland Ptr 109:45-8 S '42

DUMP cars

Improvements in dump cars. il Ry Age 112:546-7 Mr 14 '42

DUMPING appliances

Arm type hoist permits lighter construction; hoists for dump trucks. il diags Product Eng 13:579-80 O '42

DUNAGAN, Walter Mathew, 1894-1941

Sketch. por Concrete 50:16 Ja '42

Sketch. H. J. Gilkey. Science 94:578-9 D 19 '41

DUNKIN, Mertie A. 1907-

Lady succeeds in silica sand business. por Rock Prod 45:32 S '42

DUNKIRK, New York

Railroads

Dunkirk grade separation project has interesting features. il plan Ry Age 113:445-8 S 19 '42

DUNLOP rubber company

Ordinary general meeting, 43d, London. Economist 142:841 Je 13 '42

DUNNINGER, Joseph
How they do it by prestidigitation. por Sci Am 166:20-1 Ja '42
Who threw them? Dunninger plays the role of poltergeist by dexterous digital manipulation. A. D. Rathbone, 4th. il Sci Am 165:324-5 D '41

DUPLAN corporation
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:592 S 19 '42

DUPLEX houses. See Architecture, Domestic—Two-family houses

DUPLEX process. See Steel metallurgy—Duplex process

DUPLICATING machines
Alternates on duplicators. il diags Product Eng 13:216-19 Ap '42
Plastics competition award to Hilco corp.; stencil duplicator. il Mod Plastics 19:72-3 N '41

DUPLICATING processes. See Copying processes

DUPONT, Francis Irénée, 1873-1942
Sketch. Oil Paint & Drug Rep 141:51 Mr 23 '42

DU PONT family
Du Pont, one hundred and forty years. W. S. Dutton. 396p $3 Scribner '42

DU PONT de Nemours, E. I., and company
Annual report, 1941. Comm & Fin Chr 155: 636-7 F 10 '42
Denies plastics monopoly control. Comm & Fin Chr 156:1324 O 12 '42
Du Pont company, what it is, what it was. W. S. Dutton. il Chem Ind 51:46-52 Jl '42
Indictment charges plastics monopoly control. Comm & Fin Chr 156:1047 S 21 '42

DURABLE goods
Durable goods expenditures in 1941 and comparisons with 1935-39, 1939 and 1940; plant and equipment. F. C. Dirks. Fed Res Bul 28:317-18 Ap '42
List of consumer goods prohibited by WPB; with prohibition dates. Comm & Fin Chr 155:1556 Ap 16 '42
Output of consumer's durable goods 50 per cent below 1941. Dun's R 50:22 Mr '42
Plan for instalment purchase of peace priorities; goods for post-war delivery. Trusts & Estates 74:547-9 Je '42
To stop output of consumer durables. Comm & Fin Chr 155:1440 Ap 9 '42
Where shortages pinch consumer. Business Week p16 Ap 11; 62 Je 20 '42
See also
Automobile industry and trade

DURACLAY
Low weight and high strength feature this ceramic body; Trenton potteries produce lightweight large size whitewares from Duraclay. il Cer Ind 39:62, 64, 66 N '42

DURALUMIN
Cold-forming duralumin sheet; abstract. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. Metals & Alloys 16:740+ O '42
Cold-pressing properties of duralumin-alloy sheets. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. il Engineering 154:235, 258-60, 278-80; Discussion. 275 S 18-O 2 '42
Heat-treatment of aluminum aircraft parts. T. E. Piper. il diags Am Mach 86:1107-10 O 1 '42
New equipment speeds aluminum heat treating; Bell aircraft corp. R. L. Stevens and J. Whiteley. il Iron Age 150:40-3 O 29 '42
Precipitation-hardening of metals. P. D. Merica. Franklin Inst J 234:137-46 Ag '42
Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42

Analysis

Spectrographic analysis; photographic aspects of the internal standard method. A. C. Coates and E. H. Amstein. Soc Chem Ind J 61:26-7 F '42

DURAMOLD
Plywood bomber crew trainer; new Fairchild AT-13, built by Duramold process. il Aviation 41:225 S '42
Resin-bonded wood laminates for shell type aircraft structures. A. A. Gassner. bibliog diags J Aeronautical Sci 9:161-71 Mr '42

DUREZ
Plastics competition award to Keyes fibre co. il Mod Plastics 19:86-7 N '41

DURHAM, Edward Maill, jr, 1875-
E. M. Durham jr. is succeeded by John D. Farrington as executive of Chicago, Rock Island & Pacific railway. por Ry Age 113: 57+ Jl 11 '42

DUROMETERS. See Hardness—Testing

DUST
Commercial talc; animal and mineralogical studies. R. Z. Schulz and C. R. Williams. bibliog J Ind Hygiene 24:75-9 Ap '42
Control of dust from drilling and blasting operations. R. R. Sayers. Concrete (mill sec) 50:266 N '42
Dust counts and their significance. N. R. Bernz. il Heating-Piping 14:173-5, 361-3, 603-6 Mr, Je, O '42
Dust problems in industry as related to the coroner. C. O. Sappington. Ind Med 11:127-30 Mr '42
Efficient enclosures solve dust problem; Lynn sand and stone co. flow sheet il Rock Prod 45:44-5+ Ap '42
Experimental data with wet and dry dusts to determine effect on pipeline transmission and orifice coefficients. G. M. Kirkpatrick. il Am Gas Assn Mo 24:264-6 Jl-Ag '42
Industrial dust hazards. Chem Age (Lond) 47:45-7 Jl 18 '42
Predicting dust concentration. F. B. Rowley and R. C. Jordan. il Heating-Piping 14:19-22 Ja '42
Why control of dust is a good investment. C. A. Snyder. Min & Met 23:508 O '42
Why dust control? C. A. Snyder. il Safety Eng 84:44 Jl '42
See also
Coal dust
Dust removal
Flue dust
Foundry dust
Lime dust
Lungs—Dust diseases
Magnesium dust
Respiratory apparatus

Analysis

Dust analysis and occupational diseases. Science 96:sup7 Jl 31 '42
Hydrofluosilicic acid method for determination of quartz. F. H. Goldman. bibliog diags Ind & Eng Chem Anal ed 13:789-91 N 15 '41
Immersion method, for the rapid approximation of quartz in industrial dusts. W. B. Wardlow. Ind Med 11:190-1 Ap '42

DUST, Foundry. See Foundry dust

DUST collectors
Collector choking. diags Sheet Metal Worker 32:37-8 D '41
Control and collection of industrial dust. E. D. Powers. il diags plan Rock Prod 45:58-60 F; 46-8 Ap; 48-9+ S '42
Controlling dust. il Rock Prod 45:69-71 Ja '42
Dust collection at pit head. diags Mech Handling 29:106-7 Je '42
Dust collector for magnesium alloy dust. il Metal Finishing 40:207-8 Ap '42; Iron Age 149:58 Ap 9 '42; Aero Digest 40:169 Ap '42; Aviation 41:141 Je '42; Nat Safety N 45:66 Je '42
Dust control in the plastics industry. J. W. Merrill and J. E. C. Valentin. bibliog diags Am Inst Chem Eng Trans 38:813-30 Ag '42
Dust separators; patent specifications. diags Mech Handling 29:77-8 Ap '42
Efficient enclosures solve dust problem; Lynn sand and stone co. flow sheet il Rock Prod 45:44-5+ Ap '42
Industrial exhaust ventilation; air cleaners. F. F. Kravath. diags Heat & Ven 39:49-52 Ap '42
Maximum efficiency from modern equipment for collection of dust. il Concrete (mill sec) 50:166-7 My '42

DUST collectors—*Continued*

New fans, more steam, no cinder; relocation of breechings to accommodate new fans and cyclones. J. E. Watson. il diag Power 86:262 Ap '42

Newcomb-David water-type dust collector. il Metal Finishing 40:92-3 F '42

Schneible new collector unit to remove dust and fly ash from flues, kilns and furnaces, smelter stacks and cupolas. il Chem Ind 50:649 My '42

Simple dust collector. il diag Steel 110:70 Ja 26 '42

DUST counting. See Dust sampling

DUST diseases. See Lungs—Dust diseases; Silicosis

DUST explosions

Collected notes on chemical safety; hazards from dusts. J. Creevey. Chem Age (Lond) 47:58-9 Jl 18 '42

Dust explosions. J. B. Ficklen. il J Chem Educ 19:131-4 Mr '42

Dust is dynamite! B. P. Caldwell, jr. il Safety Eng 84:46-50 O '42 (to be cont)

How the injector and atomizer principle modifies gas and dust explosions. diag Coal Age 47:65 S '42

Self-promoted dust explosions; direct and indirect causes. S. C. Blacktin. bibliog Chem Age (Lond) 47:53-7 Jl 18 '42

See also

Coal dust

DUST prevention

Experience with bituminous primer for dust-suppression treatment on gravel or traffic-bound roads. J. Sears. il Roads & Bridges 80:25-7, 58+ Ap '42

DUST removal

Allaying coal dust at Island Creek coal company mines. J. A. Saxe. plan Min Cong J 28:15-17+ Ja '42

Cleanliness achieved in new crushing laboratory; Richards mineral dressing laboratory at M.I.T. R. Schuhmann, jr. il diags plan Eng & Min J 143:59-61 S '42

Control and collection of industrial dust. E. D. Powers. il diags plan Rock Prod 45:58-60 F; 46-8 Ap; 48-9+ S '42

Dust control in the Morenci reduction works. A. C. Babcock. diag plan Min & Met 23:290-2 My '42

Dust is dynamite! B. P. Caldwell, jr. il Safety Eng 84:46-50 O '42 (to be cont)

Electrostatic precipitation; wide applications in the chemical industry. D. D. Howat. bibliog il diag Chem Age (Lond) 46:165-8 Mr 28 '42

Methods of allaying dust in underground mining operations. C. W. Owings. bibliog U S Bur Mines Rep of Invest 3631:1-38 '42

Power costs are lower if dust exhaust systems are well balanced. W. C. L. Hemeon. diags Heat & Ven 38:18-25 D '41

Problem of dust control in the plastics industry; abstract. J. W. Merrill and J. E. C. Valentin. Can Chem & Process Ind 26:393 Jl '42

Removing air-borne dust in industrial plants. E. H. R. Pegg. il Power Pl Eng 46:65-7 Ag '42

See also

Air filters
Dust collectors
Electric precipitation
Exhaust systems
Flue dust

DUST sampling

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; nature of the dust in the atmosphere in a basic open-hearth furnace. J. H. Chesters and W. Hugill. Iron & Steel Inst J 144:231-4, pl 21 no 2 '41

Dust counts and their significance; Greenburg-Smith impinger and the Sedgwick-Rafter and Hatch cells. N. R. Bernz. il Heating-Piping 14:173-5 Mr '42

Dust counts and their significance; midget impinger, microprojector and other devices. N. R. Bernz. il Heating-Piping 14:361-3 Je '42

Dust-determination advances; an estimate of the available instruments. S. C. Blacktin. Chem Age (Lond) 47:188-90, 207-8 Ag 22-29 '42

How to make dust counts. N. R. Bernz. il Heating-Piping 14:603-6 O '42

Microprojection screen. C. R. Williams and L. Silverman. J Ind Hygiene 23:452-3 N '41

Shattering of particles by the impinger. L. Silverman and W. Franklin. bibliog il J Ind Hygiene 24:80-2 Ap '42

DUST separators. See Dust collectors

DUTCH EAST INDIES. See Netherlands Indies

DUTCH GUIANA

Economic conditions; general review of year 1941. For Comm W 7:20-1 Je 6 '42

U.S. troops will protect bauxite mines. Comm & Fin Chr 154:1247 N 27 '41

DUVEL, J. W. T. 1873-

Sketch. Comm & Fin Chr 155:1155 Mr 19 '42

DWELLINGS. See Architecture, Domestic; Houses

DWIGHT, Arthur Smith, 1864-

James Douglas medalist. por Min & Met 23:455 S '42

DWIGHT-LLOYD process. See Sintering

DYCHE museum. See Kansas university—Dyche museum

DYE analysis

Direct spectrographic determination of copper and manganese in dyestuffs. G. L. Buc, G. L. Royer and A. R. Norton. Opt Soc Am J 32:454-6 Ag '42

Dyestuff tests on textile materials. J. F. Holmes. Textile Col 64:193-5 Ap '42

Infra-red rays and their application to problems of the textile colorist. J. Grant. bibliog diag Textile Col 64:213-15 My '42

New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

Some aspects of fluorescence. J. A. Radley. Soc Dyers & Col J 58:49-51 Mr '42

DYE factories

Safety measures

Dangers in handling dyestuffs. J. Creevey. Chem Age (Lond) 46:255 My 16 '42

DYE industry

Statistics

Dyestuffs, textile and leather chemicals. Published in weekly numbers of Oil, paint and drug reporter

Canada

Dyestuffs advisory committee appointed. Pulp & Pa of Can 43:24 Ja '42

Germany

See also Interessengemeinschaft farbenindustrie aktiengesellschaft

Peru

Uses of coal-tar dyes in Peru. For Comm W 6:23 Mr 28 '42

South America

South American colors. A. E. Karr. Textile Col 64:1-6, 55-9 bibliog(p58-9) Ja-F '42

United States

Dye shortage limited to few types. Textile World 92:72 My '42

Dye situation hinges on intermediates supply. Oil Paint & Drug Rep 141:38 My 18 '42

Dyes for military uniforms restricted. Oil Paint & Drug Rep 141:3+ Ap 6 '42

Dyes quota raised for civilian use. Oil Paint & Drug Rep 141:5+ Je 1 '42

Dyes, then, now; fight against foreign domination during and after last war. Business Week p28-30 My 23 '42

Dyestuffs and war. R. D. Howerton. Am Dyestuff Rep 31:130-2 Mr 16 '42

Dyestuffs firms indicted. Chem & Eng N 20:51 Ja 10 '42

Eight dyestuff firms indicted as trust. Oil Paint & Drug Rep 141:3+ My 18 '42

DYE industry—United States—*Continued*

General Aniline indicted in trust case. Oil Paint & Drug Rep 140:4 D 22 '41

National defense and dyestuffs. H. F. Herrmann. Rayon 23:33-5 Ja '42

One example of America's dye development. Textile Col 64:324 Jl '42

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

DYE intermediates

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

DYE manufacture

Availability of coloring materials. W. H. Peacock. Mod Plastics 19:56-7 Mr '42

Dry colour manufacture; modern trends and basic manufacturing methods. C. W. Reynolds. il Can Chem & Process Ind 26:133-7 Mr '42; Same abr. Chem & Ind 61:205-6 My 2 '42

DYE patents

Abstracts from British and foreign journals and patents. Published in monthly numbers of Society of dyers and colourists journal

Photographic sensitising dyes; patent. J. D. Kendall and D. J. Fry. Soc Dyers & Col J 58:214 O '42

Pyridinium compounds for fastening direct dyes. A. J. Hall. Textile Col 63:615-16 N '41

United States patents. Published in monthly numbers of Textile colorist

DYE plants. See Dyes and dyeing—Natural dyes

DYE poisoning

See also

Aniline poisoning

DYE research

Colour changes of dyeings of vat and azoic dyes by wet and dry heat. E. Kornreich. bibliog il Soc Dyers & Col J 58:177-83 S '42

DYE testing

Action of accelerated fade tests on the color of woolen fabrics. J. J. Glenn. Am Dyestuff Rep 31:34-7 Ja 19 '42

Action of sweat on dyed cotton goods. F. Jordinson. Textile Col 63:628+ N '41

Fundamental concepts in fade-ometer design and operation. E. H. Harvey. bibliog Am Dyestuff Rep 31:13-16 Ja 5 '42

National accelerated fading unit. C. G. Ollinger. il Am Dyestuff Rep 31:28-33+ Ja 19 '42

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942; weathering. Am Dyestuff Rep 31:405 Ag 17 '42

Place of sulfur colors in our war production. J. L. Crist. Am Dyestuff Rep 31:133-6 Mr 16 '42

Testing sulphur-dyed goods to determine amount of deterioration during storage. J. L. Crist. Textile World 92:138 Ap '42

Testing vat dyed cotton for fastness to hypochlorite bleaching. Am Dyestuff Rep 30:682-9 D 8 '41

Woven textile fabrics; testing and reporting. Textile Col 63:675-9, 688-94 D '41

See also

Dyes, Fastness of

Standards

Causes and effects of the proposed Federal trade commission colorfastness rules. E. M. Edgerton. Am Dyestuff Rep 31:519-22; Discussion. 522-6+ O 26 '42

Hearings on proposed trade practice rules relating to the color fastness of textiles. Am Dyestuff Rep 31:463-72, 483-4 S 28 '42

Proposed colorfastness rules. Textile World 92:98 S; 77 O '42

Proposed trade practice rules relating to the colorfastness of textiles; text. Am Dyestuff Rep 31:478-83 S 28 '42; Same. Textile Col 64:481-3, 486, 493-502 O '42

Report of sectional committee on fastness of colored textiles, ASA project L14; proposed American standard. Am Dyestuff Rep 31:361-3 Jl 20 '42

DYEHOUSES

Need for control in smaller dyeing and finishing plants. A. C. Tate. il Textile World 91:82-3 D '41

Equipment

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

Management

Conserving materials. P. K. McKenney and others. Am Dyestuff Rep 31:179-81 Ap 13 '42

Interdepartmental cooperation. N. D. White. Rayon 22:676-8 N '41

Power

Power and heat for dyeworks. C. H. S. Tupholme. Textile Col 64:177-8+ Ap '42

DYEING machines

Corrosion-resisting materials in bleaching, dyeing and finishing industry. W. W. Chase. Textile World 92:72-4 Ja '42

Modifying package dyeing machines. diag Textile World 92:120 Jl '42

Motor drive gives uniform cloth tension; dye jig of Duo dyeing machine company. il diags Product Eng 13:259 My '42

Rodney Hunt duplex take-over for dyeing machines. il Textile World 91:129-30 N '41

Control

How to obtain an a-c drive that will deliver constant horsepower at different speeds; constant-tension drive for dyeing machine. A. P. Mansfield. il diag Gen Elec R 44:595-6 N '41

DYER, Bernard, 1856-

Portrait. Chem Age (Lond) 47:50 Jl 18 '42

Sketch. Chem & Ind 61:293-4 Jl 4 '42

DYES, Fastness of

Action of accelerated fade tests on the color of woolen fabrics. J. J. Glenn. Am Dyestuff Rep 31:34-7 Ja 19 '42

Action of sweat on dyed cotton goods. F. Jordinson. Textile Col 63:628+ N '41

Aftertreatment of direct dyeings on cotton and cellulose rayon materials to improve fastness to washing and light. A. J. Hall. Textile Col 64:223 My '42

Can fading be reduced by filtering fluorescent light? M. Luckiesh and A. H. Taylor. Illum Eng 37:265-6 My '42

Causes and effects of the proposed Federal trade commission colorfastness rules. E. M. Edgerton. Am Dyestuff Rep 31:519-22; Discussion. 522-6+ O 26 '42

Colour changes of dyeings of vat and azoic dyes by wet and dry heat. E. Kornreich. bibliog il Soc Dyers & Col J 58:177-83 S '42

Color clash; hearings on rules for colorfastness. Business Week p88-9 S 19 '42

Hearings on proposed trade practice rules relating to the color fastness of textiles. Am Dyestuff Rep 31:463-72, 483-4 S 28 '42

National accelerated fading unit. C. G. Ollinger. il Am Dyestuff Rep 31:28-33+ Ja 19 '42

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942; wash fastness of pigment colors. Am Dyestuff Rep 31:404 Ag 17 '42

Proposed colorfastness rules. Textile World 92:98 S; 77 O '42

Proposed trade practice rules relating to the colorfastness of textiles; text. Am Dyestuff Rep 31:478-83 S 28 '42; Same. Textile Col 64:481-3, 486, 493-502 O '42

Pyridinium compounds for fastening direct dyes. A. J. Hall. Textile Col 63:615-16 N '41

Report of A.S.A. committee L-14 on color fastness of textiles as presented at the F.T.C. hearing in Washington, August 18, 1942. Am Dyestuff Rep 31:428-9 Ag 31 '42

DYES, Fastness of—*Continued*

Report of sectional committee on fastness of colored textiles, ASA project L14; proposed American standard. Am Dyestuff Rep 31:361-3 Jl 20 '42

Rubbing and bleeding of dyestuffs in printing and dyeing of textiles. Textile Col 64: 373-6, 411-12, 424-8, 467-71+ Ag-O '42 (to be cont)

Studies in the naphtol AS series; synthetical experiments. R. V. Bhat, R. B. Forster and K. Venkataraman. bibliog Soc Dyers & Col J 56:166-78; 58:155-61, 203-6 Ag '40, Ag, O '42

Study of gas fading of acetate rayon dyes. F. P. Greenspan and P. E. Spoerri. bibliog diags Am Dyestuff Rep 30:645-50, 664-5 N 24 '41

Sulphurs versus vats in military fabrics. Textile Col 64:129 Mr '42

Testing vat dyed cotton for fastness to hypochlorite bleaching. Am Dyestuff Rep 30:682-9 D 8 '41

Water repellent fabrics. Textile Col 63:671-2 D '41

Woven textile fabrics; testing and reporting. Textile Col 63:675-9, 688-94 D '41

DYES, Natural. See Dyes and dyeing—Natural dyes

DYES and dyeing

Aridye pigment-dyeing process. diags Textile World 92:90-1 My '42

Black and white effects by dyeing methods; dyes fast to wet processing: clearing stained fibers. S. Yates. Textile Col 63:642-4 N '41

Controlling shades from batch to batch; discussion. Am Dyestuff Rep 31:58-9 F 2 '42

Curve shape index for identification by means of spectrophotometric curves. W. A. Shurcliff. Opt Soc Am J 32:160-3 Mr '42

Dye shortage limited to few types. Textile World 92:72 My '42

Dyes and dyeing. H. A. Webb. il diag J Chem Educ 19:460-70 O '42

Lactic acid in textile and laundry work. G. S. Ranshaw. Textile Col 64:356-9 Jl '42

Mechanism of dyeing. R. E. Rose. il Am Dyestuff Rep 31:204-8 Ap 27 '42; Same. Rayon 23:161-3, 217-18, 287-8 Mr-My '42; Discussion. Am Dyestuff Rep 31:209-11 Ap 27 '42

Microscopical observations of union dyeing. H. E. Millson and G. L. Royer. bibliog il Am Dyestuff Rep 31:278-91 Je 8 '42

Mixing dyestuffs for even dyeing. N. D. White. Rayon 23:351-3 Je '42

New dyes and chemicals. Published in monthly numbers of Textile world

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942. Am Dyestuff Rep 31: 402-7 Ag 17 '42

Phototropic dyes. E. I. Stearns. Opt Soc Am J 32:282-4 My '42

Problems of colour mixing in the dyeing industry. J. G. Grindy. Light & Lighting 34: 119 Ag '41

Recent views of the nature of dyeing. Textile Col 64:19 Ja '42

Rubbing and bleeding of dyestuffs in printing and dyeing of textiles. Textile Col 64: 373-6, 411-12, 424-8, 467-71+ Ag-O '42 (to be cont)

Science of practical dyeing. H. A. Thomas. bibliog Textile Inst J 33:P23-35 F '42

Search for substitutes grows more intense in dye and chemical field. Textile World 92:58 Ja '42

See also

Amaranth
Black
Bleaching
Blue
Color matching
Color printing
Crystal violet
Dye industry
Dye manufacture
Dye patents
Dyeing machines
Dyes, Fastness of
Eosin
Green
Indigo
Methylene blue
Pigments
Stains and staining (microscopy)
Textile printing
Wetting agents
Yellow

Aralac

Microscopical observations of union dyeing. H. E. Millson and G. L. Royer. Am Dyestuff Rep 31:287-8 Je 8 '42

Bibliography

Abstracts from British and foreign journals and patents. Published in monthly numbers of Society of dyers and colourists journal

Cellophane

Colour changes of dyeings of vat and azoic dyes by wet and dry heat. E. Kornreich. bibliog il Soc Dyers & Col J 58:177-83 S '42

Chemistry

Absorption spectrum of some polymethine dyes. K. F. Herzfeld. J Chem Phys 10:508-20 Ag '42

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

Color and constitution; absorption of 2-*p*-dimethylaminostyrylquinoline and its salts; the effect on absorption of a benzene ring in the chromophoric chain of dyes. L. G. S. Brooker and R. H. Sprague. bibliog Am Chem Soc J 63:3203-13 N '41

Color and constitution; absorptions of some related vinylene-homologous series. L. G. S. Brooker and others. bibliog Am Chem Soc J 63:3192-203 N '41

Color and constitution; the absorption of phenol blue. L. G. S. Brooker and R. H. Sprague. Am Chem Soc J 63:3214-15 N '41

Color and constitution; the absorption of unsymmetrical cyanines; resonance as a basis for a classification of dyes. L. G. S. Brooker, G. H. Keyes and W. W. Williams. bibliog Am Chem Soc J 64:199-210 F '42

Comparative reactivity of the carbonyl groups in the thionaphthenquinones; the constitution of certain thioindigoid dyes. J. Harley-Mason and F. G. Mann. Chem Soc J p404-15 Je '42; Abstract. Soc Dyers & Col J 58: 209-11 O '42

Dissociation of ammonium salts in contact with wool; a contribution to knowledge of neutral dyeing. F. L. Goodall and C. Hobday. Soc Dyers & Col J 58:36-40 F '42

Dye extremely sensitive to copper. E. I. Stearns. Ind & Eng Chem Anal ed 14:568-9 Jl 15 '42

Dyeing of cellulose acetate rayon with dispersed dyes. T. Vickerstaff and E. Waters. bibliog Soc Dyers & Col J 58:116-25 Je '42

Dyeing of cotton with mineral khaki; the chemical changes accompanying the use of a standing bath in development by the chromate process. E. Race, F. M. Rowe and J. B. Speakman. Soc Dyers & Col J 58:32-6 F '42

Energy levels and color of polymethine dyes. A. L. Sklar. bibliog J Chem Phys 10:521-31 Ag '42

Hydrogen exchange of aromatic amines with D_2O and T_2O. B. J. Fontana. bibliog Am Chem Soc J 64:2503-4 O '42

Neocotone dyes, a new class of dye derivatives; abstract. C. Gränacher, H. Brüngger and F. Ackermann. Soc Dyers & Col J 58:127-8 Je '42

New technique for level dyeing. J. Wakelin. Textile Col 64:421-2+ S '42

Nitrite of soda: a corner-stone of textile chemistry. J. Warwicke. Textile Col 64:407-9 Ag '42

Polymethine dyes. J. S. Friedman. Am Phot 36:40-1 Jl '42

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

Reversible photochemical processes in rigid media; a study of the phosphorescent state. G. N. Lewis, D. Lipkin and T. T. Magel. bibliog Am Chem Soc J 63:3005-18 N '41

DYES and dyeing—Chemistry—*Continued*

Solubilization of water-insoluble dye in aqueous solutions of commercial detergents. J. W. McBain and R. C. Merrill, jr. bibliog Ind & Eng Chem 34:915-19 Ag '42

Some of the recent developments in the field of thiocyanates. J. H. Clayton and B. Bann. bibliog Chem & Ind 61:420-2 O 17 '42

Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

Studies in the naphtol AS series; synthetical experiments. R. V. Bhat, R. B. Forster and K. Venkataraman. bibliog Soc Dyers & Col J 56:166-78; 58:155-61, 203-6 Ap '40, Ag, O '42

Studies on solubilization. R. C. Merrill, jr. and J. W. McBain. bibliog J Phys Chem 46:10-19 Ja '42

Thiazinocyanines; carbocyanines containing the 2 : 4-benzthiazine nucleus. B. Beilenson and F. M. Hamer. Chem Soc J p98-102 F '42

Cotton

Action of sweat on dyed cotton goods. F. Jordinson. Textile Col 63:628+ N '41

Aftertreatment of direct dyeings on cotton and cellulose rayon materials to improve fastness to washing and light. A. J. Hall. Textile Col 64:223 My '42

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

Aridye pigment-dyeing process. diag Textile World 92:90-1 My '42

Blackout draperies and curtains. H. E. Millson. Textile Col 64:281-3 Je '42

Dyed cotton textile items for war use. O. W. Clark. Textile Col 64:138-46 Mr '42

Dyeing cotton and jute with cutch. Textile Col 64:361-3 Jl '42

Dyeing different cottons. F. G. Barnes and others. Am Dyestuff Rep 31:176-8 Ap 13 '42

Dyeing lace curtain fabric in fast colors. Textile Col 64:255-7 My '42

Dyeing of cotton with mineral khaki. E. Race, F. M. Rowe and J. B. Speakman. bibliog Soc Dyers & Col J 57:213-23, 257-64; 58:32-6, 161-2 Jl-Ag '41, F, Ag '42; Abstract. Am Dyestuff Rep 31:275-6 My 25 '42

Dyeing of women's wartime hosiery. L. J. McGinty. Am Dyestuff Rep 31:218-19 Ap 27 '42

Dyeing raincoat material. Textile Col 64: 202+ Ap '42

Dyeing with sulphur dyes with special reference to khaki, blue and grey shades. H. Boothroyd. Soc Dyers & Col J 58:25-7 F '42; Same. Textile Col 64:296-9 Je '42; Discussion. Soc Dyers & Col J 58:27-8 F '42

Mechanism of dyeing. R. E. Rose. il Am Dyestuff Rep 31:204-8 Ap 27 '42; Same. Rayon 23:161-3, 217-18, 287-8 Mr-My '42; Discussion. Am Dyestuff Rep 31:209-11 Ap 27 '42

One example of America's dye development. Textile Col 64:324 Jl '42

Package testing previous to pressure dyeing. D. C. Hardman. diags Am Dyestuff Rep 31:345-8, 367-72 Jl 20 '42

Particle size in the vat dyeing of cellulose. E. I. Valko. bibliog il Am Chem Soc J 63:1433-7 My '41; Abstract. Textile Col 63: 665-6 D '41

Pigment padding processes of applying vat dyes. W. E. Hopkins. diags Soc Dyers & Col J 57:358-62 D '41; Same. Am Dyestuff Rep 31:171-2, 193-4, 249-51+ Ap 13, My 25 '42; Same, with additional tables. Textile Col 64:437, 440, 442-5 S '42; Excerpts. Textile World 92:114 Ap '42; Discussion. Soc Dyers & Col J 57:362 D '41

Place of sulfur colors in our war production. J. L. Crist. Am Dyestuff Rep 31:133-6 Mr 16 '42

Practical considerations in dyeing prussiate aniline black. Textile Col 63:669-70 D '41

Resists under printed azoic colors. Textile Col 64:449-50 S '42

Some fundamental principles of package dyeing, with special reference to the dyeing of cotton yarn with vat colors. C. Conradi. Am Dyestuff Rep 31:325-30+ Jl 6 '42

Testing vat dyed cotton for fastness to hypochlorite bleaching. Am Dyestuff Rep 30:682-9 D 8 '41

Cotton—rayon

Dyeing and finishing of mixed fiber full fashioned hosiery. V. T. Hartquist. Am Dyestuff Rep 30:716-18 D 22 '41

Dyeing of women's wartime hosiery. L. J. McGinty. Am Dyestuff Rep 31:218-19 Ap 27 '42

Pigment padding process of applying vat dyestuffs. W. E. Hopkins. Textile Col 64: 437, 440, 442-5 S '42

Problems in dyeing rayon mixtures. L. P. Rendell. Textile Col 64:147-8 Mr '42

Producing solid shades with vats on viscose cotton unions. L. Pink. Textile Col 64:394, 404-5 Ag '42

Spun rayon dress fabrics; dyeing of staple acetate mixtures, rayon-wool and cotton-rayon fabrics. B. S. Hillman. Textile Col 64:277-80 Je '42

Flock

Flock; its manufacture, application, and uses. J. B. Dow. Textile Col 64:238-40 My '42; Same. Rayon 23:387, 473-4 Jl-Ag '42

Fluorescence

Fluorescent dyes and their application. H. E. Millson and C. C. Candee. Rayon 23:493 Ag '42

Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

Textiles that glow in the dark. il Textile World 92:71 O '42

Fugitive dyes

Practical methods of tinting of filling yarn. H. E. Wenrich. Rayon 23:294 My '42

Hosiery

Developments in rayon hosiery dyeing. H. L. DeTurck. Am Dyestuff Rep 31:201-2 Ap 27 '42

Dyeing and finishing of mixed fiber full fashioned hosiery. V. T. Hartquist. Am Dyestuff Rep 30:716-18 D 22 '41

Dyeing of army socks. S. M. Hamilton. Am Dyestuff Rep 30:706-7 D 22 '41

Dyeing of nylon hosiery. P. H. Stott. Am Dyestuff Rep 30:710-14 D 22 '41

Dyeing of women's wartime hosiery. L. J. McGinty. Am Dyestuff Rep 31:218-19 Ap 27 '42

Dyer of rayon hosiery must have cooperation of throwster and knitter. V. A. Schiffer. il Textile World 92:92-3 Ap '42

Handling of nylon and union hosiery. H. H. Mosher. Rayon 23:35-7, 105-8 Ja-F '42

Hosiery dyeing troubles and their remedies. N. D. White. Rayon 23:541-3 S '42

Manufacturing of full fashioned hosiery in relation to the finish. J. Kelly. Am Dyestuff Rep 30:715+ D 22 '41

One of the problems in dyeing ladies' rayon hosiery. F. G. Davenport. Rayon 23:420 Jl '42

Processing new types of viscose, bemberg, nylon and mixture hosiery. L. O. Koons. Rayon 23:108-9 F '42; Same. Textile Col 64:285-6+ Je '42

Processing products for replacement materials to be used in the manufacture of silk hose. C. B. Kinney. Am Dyestuff Rep 31:87-90 F 16 '42

What are the problems of the hosiery dyer in dyeing high twist rayon along with nylon and cotton yarns? J. T. West and others. Am Dyestuff Rep 31:174, 176 Ap 13 '42

Jute

Dyeing cotton and jute with cutch. Textile Col 64:361-3 Jl '42

Mordants

Metachrome dyeing on wool. Textile Col 64: 149-50 Mr '42

DYES and dyeing—*Continued*

Natural dyes

Brief story of natural dyes. C. D. Mell. Textile Col 64:190-2+, 250-2 Ap-My '42
Cutch colors. A. E. Karr. bibliog Textile Col 64:113-16, 219-22 Mr, My '42
Dyes and saponins from the species of the pokeweed family. C. D. Mell. Textile Col 64:76-7+ F '42
Dyes from the species of coprosma. C. D. Mell. Textile Col 64:272-3 Je '42
Economic importance of the legume plants of the Southwest and Mexico. C. D. Mell. Textile Col 64:332-3 Jl '42
Lichen colors. A. E. Karr. Textile Col 64:431-6 S '42
Natural dyewoods and their present position in defense economy. H. R. Tisdale. il Chem Ind 49:784-6 D '41
Persian berry extract, its origin and applications in textile printing and dyeing. J. McCartney. Textile Col 63:449-50+, 605-7 Ag, N '41
Possible substitutes for cutch from India and Burma. C. D. Mell. Textile Col 64:333-4 Jl '42
Potential sources of natural dyestuffs. C. D. Mell. Textile Col 63:635-6 N '41
Purple dye and other products from rourea glabra. C. D. Mell. Textile Col 63:660-1 D '41
Red dye from baloghia lucida. C. D. Mell. Textile Col 64:87-8 F '42
Some natural dyes for wartime; animal and vegetable dyes. E. Hardy. Textile Col 63:620+ N '41
Some organic dyes for wartime. E. Hardy. Textile Col 64:117-18 Mr '42
South American colors. A. E. Karr. Textile Col 64:1-6, 55-9 bibliog(p58-9) Ja-F '42
See also
Indigo
Logwood

Nylon

Dyeing and finishing of mixed fiber full fashioned hosiery. V. T. Hartquist. Am Dyestuff Rep 30:716-18 D 22 '41
Dyeing of nylon hosiery. P. H. Stott. Am Dyestuff Rep 30:710-14 D 22 '41
Dyeing of nylon in piece goods. L. Gerst. Textile Col 64:218 My '42
Handling of nylon and union hosiery. H. H. Mosher. Rayon 23:35-7, 105-8 Ja-F '42
Mechanism of dyeing. R. E. Rose. Am Dyestuff Rep 31:208 Ap 27 '42; Same. Rayon 23:288 My '42
See also
Nylon printing

Package dyeing

Beam and package dyeing; discussion. Am Dyestuff Rep 31:60-1 F 2 '42
Package testing previous to pressure dyeing. D. C. Hardman. diags Am Dyestuff Rep 31:345-8, 367-72 Jl 20 '42
Some fundamental principles of package dyeing, with special reference to the dyeing of cotton yarn with vat colors. C. Conradi. Am Dyestuff Rep 31:325-30+ Jl 6 '42

Paper

Classification and properties of dyestuffs and pigments. E. R. Laughlin. Paper Ind 24:499-502, 600-5, 709-11 Ag-O '42
Progress in sizing and colouring. R. de Montigny. Pulp & Pa of Can 43:593-4 Jl '42
Two-sidedness of colored paper. O. Kress and E. J. Loutzenheiser, jr. bibliog Paper Tr J 114:37-40 Mr 12 '42

Rayolanda

Dyeing of a new fibre. H. A. Thomas. bibliog Chem & Ind 61:331-4 Ag 1 '42
Scope of Rayolanda X as a supplementary fibre; admixture with Fibro and wool. H. A. Thomas. bibliog Soc Dyers & Col J 58:197-202; Discussion. 202-3 O '42

Rayon

Acetate rayon having wool dyeing properties. A. J. Hall. Textile Col 64:65 F '42
Acid dyeing and animalizing of cellulosic and synthetic fibers. Am Dyestuff Rep 31:494, 509-11 O 12 '42
Aftertreatment of direct dyeings on cotton and cellulose rayon materials to improve fastness to washing and light. A. J. Hall. Textile Col 64:223 My '42
Bedspread and cushion cover fabrics; practical considerations in dyeing and finishing mixed viscose and acetate rayon textures. Textile Col 64:179-81 Ap '42
Behavior of rayon towards moisture and dyes. Textile Col 64:504 O '42
Copper-peroxide reaction of dyeings. H. P. Baumann. Textile Col 64:36 Ja '42
Defects in finished fabrics; definitions and causes of faults which occur in dyeing and finishing processes. B. S. Hillman. il Textile World 92:78 Jl '42
Developments in rayon hosiery dyeing. H. L. DeTurck. Am Dyestuff Rep 31:201-2 Ap 27 '42
Dyeing and finishing rayon locknit fabric. Textile Col 63:639-41 N '41
Dyeing of a new fibre. H. A. Thomas. bibliog Chem & Ind 61:331-4 Ag 1 '42
Dyeing of cellulose acetate rayon with dispersed dyes. T. Vickerstaff and E. Waters. bibliog Soc Dyers & Col J 58:116-25 Je '42; Abstract. Textile Col 64:472-3 O '42; Discussion. Soc Dyers & Col J 58:184 S '42
Dyeing of staple fiber for the woolen cloth industry. E. Köster. Textile Col 64:382 Ag '42
Dyeing of women's wartime hosiery. L. J. McGinty. Am Dyestuff Rep 31:218-19 Ap 27 '42
Dyeing raincoat material. Textile Col 64:202+ Ap '42
Dyeing synthetic fibers. Textile Col 64:309-10 Je '42
Dyeing uniform cloth. P. LeBrun. il Textile World 92:112 S '42
Dyer of rayon hosiery must have cooperation of throwster and knitter. V. A. Schiffer. il Textile World 92:92-3 Ap '42
Dyes and dye intermediates (photographic sensitisers and cellulose acetate rayon dyes); patent. J. D. Kendall and D. J. Fry. Soc Dyers & Col J 58:82-3 Ap '42
Hosiery dyeing troubles and their remedies. N. D. White. Rayon 23:541-3 S '42
Manufacturing of full fashioned hosiery in relation to the finish. J. Kelly. Am Dyestuff Rep 30:715+ D 22 '41
Microscopical observations of union dyeing. H. E. Millson and G. L. Royer. bibliog il Am Dyestuff Rep 31:278-91 Je 8 '42
One of the problems in dyeing ladies' rayon hosiery. F. G. Davenport. Rayon 23:420 Jl '42
Pigment padding processes of applying vat dyes. W. E. Hopkins. diags Soc Dyers & Col J 57:358-62 D '41; Same. Am Dyestuff Rep 31:171-2, 193-4, 249-51+ Ap 13, My 25 '42; Same, with additional tables. Textile Col 64:437, 440, 442-5 S '42; Excerpts. Textile World 92:114 Ap '42; Discussion. Soc Dyers & Col J 57:362 D '41
Practical methods of tinting of filling yarn. H. E. Wenrich. Rayon 23:294 My '42
Preparing, dyeing and finishing of rayon crêpe fabrics. C. P. Atkinson. il Soc Dyers & Col J 58:89-93 My '42; Abstract. Textile Col 64:380-1 Ag '42
Prevention of filling bands. A. C. Wayman. il Textile World 91:76-7 D '41
Problems in dyeing rayon mixtures. L. P. Rendell. Textile Col 64:147-8 Mr '42
Processing new types of viscose, bemberg, nylon and mixture hosiery. L. O. Koons. Rayon 23:108-9 F '42; Same. Textile Col 64:285-6+ Je '42
Rayon hosiery dyed and finished to replace silk. N. D. White. Rayon 23:212-13 Ap '42
Recent years' developments in dyestuffs for, and in the dyeing and printing of, celanese and mixtures. G. H. Ellis. Soc Dyers & Col J 57:353-7 D '41; Abstracts. Am Dyestuff Rep 31:252+ My 25 '42; Textile Col 64:223-4 My '42; Discussion. Soc Dyers & Col J 57:357-8 D '41
Space-dyed viscose and acetate rayons. W. M. Field. il Rayon 23:546 S '42

DYES and dyeing—Rayon—*Continued*

Spun rayon dress fabrics; dyeing of staple acetate mixtures, rayon-wool and cotton-rayon fabrics. B. S. Hillman. Textile Col 64:277-80 Je '42

Study of gas fading of acetate rayon dyes. F. P. Greenspan and P. E. Spoerri. bibliog diags Am Dyestuff Rep 30:645-50, 664-5 N 24 '41

Vat dyeing of viscose spun rayons. A. R. Wachter. il Rayon 23:543-5 S '42

What are the problems of the hosiery dyer in dyeing high twist rayon along with nylon and cotton yarns? J. T. West and others. Am Dyestuff Rep 31:174, 176 Ap 13 '42

What you can use; materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:63 F 23; 43 Mr 16; 52 Mr 30; 62 Ap 20; 44 Ap 27 '42

See also

Dyes and dyeing—
Cotton—rayon

Rayon—nylon

What are the problems of the hosiery dyer in dyeing high twist rayon along with nylon and cotton yarns? J. T. West and others. Am Dyestuff Rep 31:174, 176 Ap 13 '42

Silk

Interdepartmental cooperation. N. D. White. Rayon 22:676-8 N '41

Vat dyes

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

Colour changes of dyeings of vat and azoic dyes by wet and dry heat. E. Kornreich. bibliog il Soc Dyers & Col J 58:177-83 S '42

Dyeing lace curtain fabric in fast colors. Textile Col 64:255-7 My '42

Dyeing of army socks. S. M. Hamilton. Am Dyestuff Rep 30:706-7 D 22 '41

Particle size in the vat dyeing of cellulose. E. I. Valko. bibliog il Am Chem Soc J 63:1433-7 My '41; Abstract. Textile Col 63:665-6 D '41

Pigment method of dyeing vat colors as compared with the reduced method; discussion. Am Dyestuff Rep 31:59-60 F 2 '42

Pigment padding processes of applying vat dyes. W. E. Hopkins. diags Soc Dyers & Col J 57:358-62 D '41; Same. Am Dyestuff Rep 31:171-2, 193-4, 249-51+ Ap 13, My 25 '42; Same, with additional tables. Textile Col 64:437, 440, 442-5 S '42; Excerpts. Textile World 92:114 Ap '42; Discussion. Soc Dyers & Col J 57:362 D '41

Printing with vat dyes. H. Hoyle. Soc Dyers & Col J 57:332-5 N '41; Same. Textile Col 64:67-70+ F '42

Producing solid shades with vats on viscose cotton unions. L. Pink. Textile Col 64:394, 404-5 Ag '42

Relative exhaustion of vat colors in the pad pigment method of jig dyeing. Am Dyestuff Rep 30:696-7+ D 8 '41

Rubbing and bleeding of dyestuffs in printing and dyeing of textiles. Textile Col 64:373-4 Ag '42

Some fundamental principles of package dyeing, with special reference to the dyeing of cotton yarn with vat colors. C. Conradi. Am Dyestuff Rep 31:325-30+ Jl 6 '42

Sulphurs versus vats in military fabrics. Textile Col 64:129 Mr '42

Vat dyeing of viscose spun rayons. A. R. Wachter. il Rayon 23:543-5 S '42

Wool

Action of accelerated fade tests on the color of woolen fabrics. J. J. Glenn. Am Dyestuff Rep 31:34-7 Ja 19 '42

Black and white effects by dyeing methods; dyes fast to wet processing: clearing stained fibers. S. Yates. Textile Col 63:642-3 N '41

Blending dyed fibers. V. Rosatto. Textile World 92:84 Ag '42

Dissociation of ammonium salts in contact with wool; a contribution to knowledge of neutral dyeing. F. L. Goodall and C. Hobday. Soc Dyers & Col J 58:36-40 F '42

Dyeing raincoat material. Textile Col 64:202+ Ap '42

Faults in worsted piece dyeing and dyeing of service cloths. J. A. Eastwood. Textile Col 63:624-5, 646-7 N '41

Further investigations of the affinities of anions of strong acids for wool protein. J. Steinhardt, C. H. Fugitt and M. Harris. bibliog Am Dyestuff Rep 31:77-8, 97-100 F 16 '42

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

Mechanism of dyeing. R. E. Rose. Am Dyestuff Rep 31:206-8 Ap 27 '42; Same. Rayon 23:218, 287-8 Ap-My '42

Metachrome dyeing on wool. Textile Col 64:149-50 Mr '42

Microscopical observations of union dyeing. H. E. Millson and G. L. Royer. bibliog il Am Dyestuff Rep 31:278-91 Je 8 '42

Oxidation of wool keratin by potassium dichromate. R. O. Donohue and R. Edgar. Am Dyestuff Rep 31:101-4, 123 bibliog(p123) Mr 2 '42

Wool dyeing, the cause of skitteriness. T. Barr, F. M. Rowe and J. B. Speakman. il Soc Dyers & Col J 58:52-4 Mr '42

Wool dyeing; the cause of skitteriness. T. Barr, F. M. Rowe and J. B. Speakman. Textile Col 64:456-7 S '42

Wool—artificial wool

Improving casein fibers. A. J. Hall. Textile Col 63:667+ D '41

Wool—rayolanda

Scope of Rayolanda X as a supplementary fibre; admixture with Fibro and wool. H. A. Thomas. bibliog Soc Dyers & Col J 58:197-202; Discussion. 202-3 O '42

Wool—rayon

Dyeing synthetic fibers. Textile Col 64:309 Je '42

Problems in dyeing rayon mixtures. L. P. Rendell. Textile Col 64:147-8 Mr '42

Spun rayon dress fabrics; dyeing of staple acetate mixtures, rayon-wool and cotton-rayon fabrics. B. S. Hillman. Textile Col 64:277-80 Je '42

Wool, Artificial

Acid dyeing and animalizing of cellulosic and synthetic fibers. Am Dyestuff Rep 31:494, 509-11 O 12 '42

DYES and dyeing, Photographic

Color photography. J. S. Friedman. Am Phot 36:42-5 O; 42-5+ N '42

Color photography; Gasparcolor. J. S. Friedman. Am Phot 36:30-3+ Mr '42

Color photography; silver-dye bleach processes. J. S. Friedman. Am Phot 35:855-60; 36:38-40+ D '41, F '42

Dyes and dye intermediates (photographic sensitisers and cellulose acetate rayon dyes); patent. J. D. Kendall and D. J. Fry. Soc Dyers & Col J 58:82-3 Ap '42

Photographic sensitising dyes; patent. J. D. Kendall and D. J. Fry. Soc Dyers & Col J 58:214 O '42

Polymethine dyes. J. S. Friedman. Am Phot 36:40-1 Jl '42

Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

DYES as antiseptics and disinfectants

Dyes and dye chemistry fight disease. G. S. Whitby. Textile Col 64:119-21 Mr '42

DYNAMIC testing

Discussion of dynamic methods of testing concrete with suggestions for standardization. L. Obert and W. I. Duvall. diags Am Soc T M Proc 41:1053-70; Discussion. 1071 '41

Dynamic testing in Germany. H. N. Cox. il diags Inst Mech Eng J & Proc 146:Proc 39-41 N '41

DYNAMICS

Approximate mechanics of falling bodies. W. R. Crawford. Engineer 172:430-2 D 19 '41

Control problems. N. Minorsky. diags Franklin Inst J 232:451-87, 519-51 bibliog(p550-1) N-D '41

Dynamics and bridge design. A. M. Freudenthal. Eng N 129:540-1 O 22 '42

Extended theorems in dynamics. E. Kasner and D. Mittleman. Science 95:249-50 Mr 6 '42

Operational analysis of non-linear dynamical systems. L. A. Pipes. J Ap Phys 13:117-28 F '42

Some unsolved problems of theoretical dynamics. G. D. Birkhoff. Science 94:598-600 D 26 '41

Teaching dynamics. S. Timoshenko. J Eng Educ 32:463-6 Ja '42

Virtual masses and moments of inertia of disks and cylinders in various liquids. Y. Yu. diag J Ap Phys 13:66-9 Ja '42

See also

Aerodynamics
Hydrodynamics
Mechanics
Thermodynamics

DYNAMITE

Ditching with dynamite. il diags Explosives Eng 20:255-61 S '42

Dynamite at Wake Island; use of explosives in making moving picture. A. R. Boone. il Explosives Eng 20:235-8 Ag '42

Spiralok, a new shell for seismic shooting. J. C. McAfee. il Explosives Eng 20:105-7 Ap '42

Stemming in metal mines; relative advantages and disadvantages of different types of stemming and no stemming when used with 60-percent ammonia gelatin dynamite. J. A. Johnson, W. G. Agnew and M. Mosier. U S Bur Mines Rep of Invest 3612:1-16 '42

Tamptite, an expanding dynamite cartridge. il Explosives Eng 20:71 Mr '42

See also

Blasting

DYNAMOMETERS

Acceleration-oscillogram method of motor-torque measurement. C. R. Atkinson and E. G. Downie. Elec Eng 61:Trans 7-9 Ja '42

Agitation; power requirements of turbine agitators. A. W. Hixson and S. J. Baum. bibliog diags Ind & Eng Chem 34:194-208 F '42

Brake drums; dynamometer tests on grey cast-iron and meehanite. O. Smalley. il Automobile Eng 32:23-7 Ja '42

Dynamometers for testing engine ratings. P. G. Lessman. il Aviation 41:87+ Mr '42

Hydraulic dynamometers for aircraft engine testing. E. L. Cline. diags Aero Digest 40:245-6+ My '42

New model basins for U.S. navy; type of towing dynamometer. il diag Engineer 173:506-8 Je 19 '42

Photocell-controlled dynamometer loader; motor fuel research. R. R. Proctor. il diags Instruments 15:194-5 Je '42; Abstract. Electronics 15:110+ O '42

DYNAMOS. See Electric generators, Direct current

DYSENTERY

Ants as probable agents in the spread of Shigella infections. S. D. Griffitts. Science 96:271-2 S 18 '42

Studies of the acute diarrheal diseases; carriers of Shigella dysenteriae. J. Watt, A. V. Hardy and T. M. DeCapito. Pub Health Rep 57:524-9 Ap 10 '42

Studies of the acute diarrheal diseases; new procedures in bacteriological diagnosis. A. V. Hardy, J. Watt and T. M. DeCapito. bibliog Pub Health Rep 57:521-4 Ap 10 '42

Studies of the acute diarrheal diseases; Shigella dysenteriae infections among institutional inmates. A. V. Hardy and others. Pub Health Rep 57:1079-1102 Jl 24 '42

Studies of the acute diarrheal diseases; sulfaguanidine in the control of Shigella dysenteriae infections. A. V. Hardy and others. bibliog Pub Health Rep 57:529-35 Ap 10 '42

DYSPROSIUM

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

E

e/m. See Electrons

E pennants. See Incentives in industry

EAGLE fire insurance company of New Jersey

Par value of shares reduced; surplus increased. Comm & Fin Chr 156:864 S 7 '42

EAGLE-PICHER lead company

High yield stocks. S. Devlin. Mag of Wall St 69:560 F 21 '42

EAR

Damping and selectivity of the inner ear. R. S. Hunt. bibliog Acoustical Soc Am J 14:50-7 Jl '42

Experimental study of subjective tones produced within the human ear. C. R. Moe. bibliog il Acoustical Soc Am J 14:159-66 O '42

Experiments on the pellet-type of artificial drum. K. Lowy. bibliog il Acoustical Soc Am J 13:383-8 Ap '42

Synthetic chemical, prostigmin helps ear noises; abstract. A. F. Judge. Science 95:sup12 Mr 27 '42

See also

Hearing

Diseases

Diseases of the ear, nose and throat; principles and practice of otorhinolaryngology. F. L. Lederer. 3d rev ed 894p $10 Davis '42

Protection

Defense against noise. V. O. Knudsen. il Nat Safety N 45:28-9 F '42

EARLE, Theodore

Wheat peeled for better bread; process developed by mining engineer retains grain elements. H. T. Rutledge. por Sci Am 166:25-6 Ja '42

EARTH

Depth dependence of earth conductivity upon surface potential data. W. G. Keck and W. F. Colby. bibliog J Ap Phys 13:179-88 Mr '42

See also

Continents
Folds (geology)
Geochemistry
Geography, Economic
Geology
Geophysics
Glacial geology
Magnetism, Terrestrial
Meteorology
Mines and mineral resources
Ore deposits
Paleontology
Physical geography
Water, Underground

Cooling

See Earth temperature

Internal structure

Interior of the earth viewed in its relation to the earthquake causes. E. A. Hodgson. bibliog Geol Soc Bul 53:1045-53 Jl '42

Rotation

Historical note on the deflecting influence of the rotation of the earth. E. W. Woolard. bibliog Franklin Inst J 233:465-70 My '42

Shot-put and the earth's rotation. J. O. Thompson. Science 96:204-5 Ag 28 '42

Temperature

See Earth temperature

EARTH construction

Diatalum dwellings; new house of 194x. il diags plans Arch Forum 77:108-11 S '42

Soil-cement blocks for walls of university research laboratory; University of Kansas, Lawrence. W. C. McNown. il Eng N 127:812-13 D 4 '41

EARTH construction—*Continued*

Suitability of stabilized soil for building construction. E. L. Hansen. il diags Ill U Eng Exp Sta Bul 333:1-37 bibliog(p35-7) '41 (pa 45c)

See also

Pisé

EARTH currents

Is there an electrical basis for water divining? abstract. J. F. Shipley. Engineering 153:113 F 6 '42

EARTH movements

Earth motions in the vicinity of a fault slip. N. H. Heck and F. Neumann. diags Geol Soc Bul 53:179-93, pl 1 F '42

Surveys show Long Beach, Calif. is moving up, down and sideways. diag map Eng N 128:477 Mr 26 '42

See also

Earthquakes

EARTH pressure

Design of concrete retaining walls; calculation of pressure against back of wall. O. Albert. diags Concrete 50:33-6 Je '42

Earth pressure measurements in open cuts, Chicago (Ill.) subway. R. B. Peck. diags Am Soc C E Proc 68:900-28 Je '42; Discussion. 68:1216-18 S '42

Earth pressure on tunnels; Central Avenue tunnel, Detroit. W. S. Housel. diags Am Soc C E Proc 68:929-50 Je '42; Discussion. 68:1218-21 S '42

Foundations. R. R. Minikin. diags Engineer 172:448-50 D 26 '41

Graphical solution for passive earth pressure. P. Andersen. Civil Eng 12:458-9 Ag '42

Lateral earth pressures on retaining walls. R. R. Minikin. diags Engineering 154:21-3 Jl 10 '42

Liner-plate tunnels on the Chicago (Ill.) subways. K. Terzaghi. diags map Am Soc C E Proc 68:862-99 Je '42; Discussion. 68:1221-4 S '42

Measurement of cohesive soil properties applied to engineering design. W. S. Housel. il diags Civil Eng 12:442-5 Ag '42

Open-cut soil pressures on Chicago subway. R. S. Knapp and R. B. Peck. il diags Eng N 127:739-42 N 20 '41; Discussion. 128:468-9 Mr 26 '42

Soil pressure distribution along flexible foundations. A. Bull. diags Franklin Inst J 233:559-80 Je '42

See also

Dams

Earthwork

Retaining walls

EARTH temperature

Temperatures of natural-gas pipe lines and seasonal variations of underground temperatures. W. M. Deaton and E. M. Frost, jr. diags map U S Bur Mines Rep of Invest 3590:1-6 '41; Same cond. Am Gas Assn Mo 24:15-19 Ja '42; Same cond. Gas Age 89:18-23 Ja 1 '42

EARTHENWARE. See Stoneware

EARTHING. See Electric distribution—Grounding

EARTHQUAKES

Advances in engineering seismology, from report on work of the U.S. Coast and geodetic survey. N. H. Heck. il Civil Eng 12:30-4 Ja '42

Earth motions in the vicinity of a fault slip. N. H. Heck and F. Neumann. diags Geol Soc Bul 53:179-93, pl 1 F '42

Interior of the earth viewed in its relation to earthquake causes. E. A. Hodgson. bibliog Geol Soc Bul 53:1045-53 Jl '42

Seismology. P. Byerly. 256p $4.65; school ed $3.50 Prentice-Hall '42

California

Earthquakes in northern California and the registration of earthquakes at Berkeley, Mount Hamilton, Palo Alto, San Francisco, Ferndale, Fresno from Jan. 1, 1940-March 31, 1940. P. Byerly and R. Fuller. 45p pa 50c Univ. of California press, Berkeley '42

Los Angeles basin earthquake of Oct. 21, 1941, and its effect on certain producing wells in Dominguez field, Los Angeles county. K. M. Bravinder. il diags maps Am Assn Pet Geologists Bul 26:388-99 Mr '42

Problems in redrilling deep Dominguez wells sheared by earthquake. T. P. Sanders. il Oil & Gas J 40:40 Ja 8 '42

Reinforced brick masonry passes first real test in California earthquake. il Brick & Clay Rec 100:34, 36 F '42

Torrance, Calif. quake does $600,000 damage. R. T. Taylor. Eng N 127:703-4 N 20 '41

EARTHQUAKES and building

Advances in engineering seismology from report on work of the U.S. Coast and geodetic survey. N. H. Heck. il Civil Eng 12:30-4 Ja '42

Analytical and experimental methods in engineering seismology. M. A. Biot. il diag Am Soc C E Proc 68:49-69 Ja '42; Discussion. 68:603-11, 822-6, 1023-30, 1261, 1623-6 Ap-Je, S, N '42

Earthquake stresses in frame structures. R. E. Glover. bibliog il Am Concrete Inst J 13:453-70 Ap '42; Discussion. 13:sup 472^1-472^{12} N '42

Reinforced brick masonry passes first real test in California earthquake. il Brick & Clay Rec 100:34, 36 F '42

Torrance, Calif. quake does $600,000 damage. R. T. Taylor. Eng N 127:703-4 N 20 '41

Vibration periods of structures. H. M. Engle. Eng N 128:859-62 My 21 '42

EARTHQUAKES and public works

Effects of earthquakes on water distribution systems. C. G. Hyde. N E Water Works Assn J 56:14-37 Mr '42; Abstract. Water Works & Sewerage 88:505-6 N '41

What it takes to be earthquake-resistant; Tucson tank. il diags Eng N 127:742 N 20 '41

EARTHS, Rare. See Rare earths

EARTHWORK

Building airports on New England's bogs. il diags Eng N 129:153-5 Jl 30 '42

Constructing the Whatcom County, Washington, airport. il Pub Works 73:24-5+ Mr '42

Equipment maintenance on huge earth job; operation of 376 pieces of heavy equipment on a 6,000,000-cu. yd. dirt-moving job at War department office building, Arlington, Va. il Eng N 129:34-6 Jl 2 '42

Fundamentals for designing low dams; earth dams. diags Pub Works 73:14-16, 68-70 O; 19-20 N '42

Penetrometer control of rolled fill. F. H. Kellogg. il Eng N 129:550-4 O 22 '42

Soils and stabilization manual for the control and inspection of earthwork and base course construction. R. D. Finney and others, comps. 156p Kansas State highway commission, Topeka '41

Soils engineering at Kentucky dam. M. N. Sinacori. il plan Civil Eng 12:423-6 Ag '42

See also

Dams

Drainage

Dredging

Drilling and boring (earth and rocks)

Earth pressure

Embankments

Excavating machinery

Excavation

Filling

Foundation soils

Foundations

Hydraulic filling

Irrigation canals

Levees

Railroads—Earthwork

Retaining walls

Roads—Subgrades

Soil conservation

Soil mechanics

Tunnels and tunneling

Tables, calculations, etc.

Earthwork calculations simplified. F. F. Fergusson. Civil Eng 12:331-2 Je '42

Solving quantities in excavation and fill. B. F. Powell. Eng N 129:558-9 O 22 '42

Stability of granular materials. R. E. Glover and F. E. Cornwell. diags Am Soc C E Proc 67:1639-56 N '41; Discussion. 67:1723-4; 68:501-5, 651-60, 1399-1403 N '41, Mr-Ap, O '42

EASEMENTS

Pipe line easement construed. Gas Age 90:11+ Ag 27 '42

EAST and West
New East in a new world. W. E. Hocking. il diags Fortune 26:106-11+ Ag '42

EAST Bay municipal utility district
Management problems of a municipal utility district. J. S. Longwell. Am Water Works Assn J 33:1897-1910 N '41

EAST INDIES
Ageless Indies. R. Kennedy. 208p $2 Day '42
See also
Malay archipelago
Netherlands Indies
Petroleum—East Indies

EAST river, New York
Model study of tidal currents in East river. L. S. Dillon. il diag maps Civil Eng 12:295-8 Je '42

EASTERN air lines
Comparative income account, 1939-1941. Comm & Fin Chr 155:1509 Ap 13 '42

EASTERN gas and fuel associates
Bonds recommended as a commitment in the soft coal industry. Comm & Fin Chr 155:1335 Ap 2 '42
Status of Eastern Gas & Fuel 4s, 1956. Barron's 22:18 Ap 6 '42

EASTERN life insurance company
15th milestone reached. East Underw 43:13 Je 19 '42

EASTERN Massachusetts street railway company
Eastern Massachusetts; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:530-2 N '41

EASTERN sugar associates
Both preferred and common have interesting price appreciation possibilities. Comm & Fin Chr 155:1930 My 21 '42; Correction. 155:2018 My 28 '42

EASTMAN, Joseph Bartlett, 1882-
Eastman devotes 7 days a week to job as war transport chief. por Nat Pet N 34:20 F 4 '42
Eastman is getting organized; makes several appointments to staff of Office of defense transportation. Ry Age 112:215-18 Ja 17 '42
Eastman rules the rails. por Business Week p20 Ja 3 '42
Eastman's job. por Business Week p54 My 2 '42
Office of defense transportation created by President. Ry Age 111:1089-90 D 27 '41
Portrait. Ry Age 112:6 Ja 3 '42

EASTMAN kodak company
Annual report. Comm & Fin Chr 155:1308 Mr 30 '42

EATON manufacturing company
Thumbnail stock appraisal. Mag of Wall St 71:134 N 14 '42

EAU CLAIRE, Wisconsin

Water supply

Restoring well capacity with chlorine. E. D. Brown. Am Water Works Assn J 34:698-702 My '42

EBERSTADT, Ferdinand
Portrait. Business Week p14 S 26 '42

EBONITE
Ebonite from Hycar OR-15. B. S. Garvey, jr. and D. V. Sarbach. Ind & Eng Chem 34:1312-15 N '42

EBULLIOSCOPY. See Boiling points

ECHO
Compact direct reading reverberation meter. E. S. Seeley. il diags Soc Motion Picture Eng J 37:557-68 D '41
Position finding by waves. Engineer 173:360-1 My 1 '42

ECHO sounding. See Sounding

ECHOLS, Oliver P.
Portrait. Mach 48:134 Jl '42

ECKER, Frederic Worrall, 1896-
Ecker resigns from Metropolitan Life. Comm & Fin Chr 155:337 Ja 22 '42

ECKHARDT, Henry, 1894-1942
Tribute. T. L. L. Ryan. por Adv & Sell 35:15 Ag '42

ECLIPSES, Lunar
Portentous eclipse. H. N. Russell. il diags Sci Am 167:210-11 N '42

ECLIPSES, Solar
Eclipse meteorology; with special reference to the total solar eclipse of Aug. 31, 1932. C. F. Brooks and others. 109p bibliog(p105-9) pa $1.25 Harvard univ., Blue Hill meteorological observatory, Milton, Mass. '41

ECLIPSES, Stellar
RW Tauri; remarkable eclipsing variable star. H. N. Russell. diag Sci Am 167:16-17 Jl '42

ECONOMIC conditions
Eleven major trends; advance report on The road we are traveling. S. Chase. Bankers M 144:351-2 Ap '42
Financial situation abroad. Published in monthly numbers of Bankers magazine
North America, wheel of the future. H. Daniel. 300p $2.75 Scribner '42
Preview of 1942. G. W. Mathis. il Mag of Wall St 69:297-9+ D 27 '41
This age of fable; the political and economic world we live in. G. Stolper. 369p $3 Reynal & Hitchcock, New York '41
World economic survey for 1939-41, by the Economic intelligence service of the League of nations; review. L. S. Wellstone. For Comm W 5:34-5 D 6 '41
World economic survey, ninth year, 1939-41. 275p $2.50 Columbia univ. press '41
See also
Business conditions
Economic statistics
Food supply
also subdivision Economic conditions under names of countries and regions, e.g. France—Economic conditions; Germany—Economic conditions; United States—Economic conditions

ECONOMIC geography. See Geography, Economic

ECONOMIC history
Economic history of Athens under Roman domination. J. Day. 300p bibliog(p281-6) $3.50 Columbia univ. press '42
Relations with Britain; report based on the findings of a committee of editors. R. L. Buell. il Fortune 25:supp 1-21 My '42
See also
Factory system
also subdivision Economic history under names of countries, e.g. United States—Economic history

ECONOMIC planning
Approach to postwar planning. R. P. Gustin and S. A. Holme. Harvard Business R 20 no 4:459-72 [Jl] '42
Extensive postwar planning outlined by National resources planning board. Elec Eng 61:266-8 My '42
Higher living standard for American people is industry's post-war objective. W. P. Witherow. Comm & Fin Chr 156:1186 O 1 '42
Industry planners; organization to carry out a program of long-term economic planning for private industry. Business Week p28+ O 24 '42
Mexican Federal commission on economic planning. Int Labour R 46:314-15 S '42
More consumers and jobs after the war. J. K. Baillie. Trusts & Estates 73:603-4 D '41
Perspective on democratic industrial government. O. Tead. Ann Am Acad 224:46-53 N '42
Planning against postwar depression. A. R. Sweezy. Ann Am Acad 224:175-82 N '42
Planning will win the peace. D. Hitchcock. Mech Eng 64:97-9 F '42
Postwar planning. W. Lloyd George. Special Lib 33:255-9+ S '42
Post-war planning: what is it, and what shall we do about it? A. R. Hahn; R. G. Creviston. il Sales Management 51:18-22 S 1; 28, 30 O 1 '42
Post-war program. A. H. Hansen. Bankers M 144:227-8 Mr '42

ECONOMIC planning—*Continued*

Post-war program for U.S. proposed by National resources planning board. Comm & Fin Chr 155:349 Ja 22 '42

Proposals for a social and economic planning council in South Africa. Int Labour R 45:537-41 My '42

Research for post-war planning: a practical five-point program. L. O. Brown. Sales Management 51:23-4 O 10 '42

Strategy for democracy. J. D. Kingsley and D. W. Petegorsky. 342p $3 Longmans '42

Suggests federal agency to promote post-war technological advances. R. C. Muir. Comm & Fin Chr 156:1448 O 22 '42

Towards the financial engineer. W. F. Kissack. Engineer 174:12-13 Jl 3 '42

Use of land. Economist 142:30-1 Ja 10 '42

See also

Economic policy
Land utilization
Reconstruction (World war, 1939-)

Bibliography

Post-war planning. L. F. McCance, comp. 41p Lib, Nat. resources planning board, Washington, D.C. '42

ECONOMIC planning, International

American proposal; room for democracy and economic freedom in a shrunken world if we agree with Britain to let it expand. Fortune 25:59-63 My '42

Considerations in post-war planning. N. R. Whitney. Credit & Fin Management 44:13-15, 42-5 Je '42

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Economic partnership of the democracies. E. Montenegro. Ann Am Acad 222:80-3 Jl '42

Future of world trade. J. A. de Haas. Harvard Business R 21 no 1:100-8 [S] '42

General principles of a post-war economy; report by the London chamber of commerce. Engineer 173:467-8 Je 5 '42

International collaboration basis of post war period, from summary of report by Economic, financial and transit department of the League of nations. Trusts & Estates 75:218-19 S '42

International control over European utilities? T. H. Minshall. Pub Util 30:292-5 Ag 27 '42

New trends for trade after the war. V. L. Horoth. il Mag of Wall St 70:372-4+ Jl 25 '42

Painless prosperity? Economist 143:131-2, 166 Ag 1-8 '42

Policing of European peace through utility control; why not a post-war international peace tribunal in Switzerland, subject to Allied supervision? T. H. Minshall. Pub Util 30:340-3 S 10 '42

Post war planning at home and abroad must rest on solvency. P. F. Cadman. Comm & Fin Chr 156:1091 S 24 '42

Reconstruction; report by the Federation of British industries. Engineering 153:454-6, 476-7, 496-7 Je 5-19 '42

See also

Reconstruction (World war, 1939-)

ECONOMIC policy

Agenda for a postwar world. J. B. Condliffe. 232p $2.50 Norton '42

American society of refrigerating engineers wartime forum; views on post-war economics. Refrig Eng 44:71-5, 159-65+ Ag-S '42

Anatomy of public spending. R. M. Bissell, jr. Fortune 25:94-5+ My; 104-5+ Je '42

Behold the future. O. Cullman. 93p $1 Cause and effect, 127 N. Dearborn st, Chicago '42

Blueprint for our future; resolutions of Rio no final act. W. C. Taylor. il For Comm W 6:3-7 F 28 '42

Calls for organized effort by management to meet post-war challenge. A. P. Sloan, jr. Comm & Fin Chr 154:1465 D 11 '41

Christian program for bankers. W. Temple. Bankers M 144:541 Je '42

Coming showdown. C. Dreher. 419p $3 Little '42

Constructive imperialism in a new world. M. J. Bonn. Trusts & Estates 74:129-31 F '42

Creation of purchasing power; a study in the problem of economic stabilization. D. M. Wright. 251p bibliog(p233-41) $3 Harvard univ. press '42

Credit for the duration, and after; address at 47th annual credit convention. H. H. Heimann. Credit & Fin Management 44:4-7 Je '42

Distributive justice; the right and wrong of our present distribution of wealth. J. A. Ryan. 3d ed rev 357p bibliog(p6) $4 Macmillan '42

Door to economic freedom. W. von Tresckow. Barron's 22:3 Jl 13; 3 Ag 3 '42

Economic basis for world peace; a rational challenge to war and dictatorship. J. Torpats. 222p $3 John Felsberg, 80 4th av, New York '41

Economic consequences of the second World war. L. L. Lorwin. 510p $3 Random house, New York '41

Economic peace aims; a basis for discussion. O. Dutch. 280p $4 Longmans

Economic problems of eastern Europe and federalism. A. Suha. 46p pa 1s Galloway & Porter, Cambridge, Eng. '42

Extent of administrative regulation in economic affairs. H. D. Koontz. Ann Am Acad 221:9-16 My '42

Fighting for what? J. B. Orr. 89p bibliog(p88-9) 2s 6d Macmillan '42

Free market and the future. A. W. Jones. Fortune 25:98-9+ Ap '42

Freedom from want can be achieved; economic security is not incompatible with economic freedom. Fortune 26:126-8 O '42

Full employment: the cost. Economist 143:472-3 O 17 '42

Managerial revolution; what is happening in the world. J. Burnham. 285p $2.50 Day '41; Review (Shifting control of industry) by D. L. Palmer. Mech Eng 63:904-5 D '41

Outlook for private enterprise in America. S. H. Slichter. 23p Investment bankers assn. of Am, 33 S. Clark st, Chicago '42; Same. Dun's R 50:7-12, 32+ Ap '42; Same. Advanced Management 7:67-76 Ap-Je '42; Abstract. Trusts & Estates 73:598-600 D '41

Platform adopted by Congress of American industry favors single defense agency. Comm & Fin Chr 154:1464-5 D 11 '41; Same abr. Oil Paint & Drug Rep 140:7+ D 8 '41

Post war economic policy. A. H. Hansen and C. P. Kindleberger. Trusts & Estates 74:367-8 Ap '42

Postwar problems and industrial relations. L. L. Lorwin. Advanced Management 6:138-44 O-D '41

Price of plenty. G. R. Baker. 160p 5s Headley bros, London '41

Problem of economic peace after the war. L. Pasvolsky. (Commercial policy ser. 72) 22p U.S. Dept. of state, Washington; pa 5c Supt. of doc. '42

Protestant churches in Great Britain and the United States and reconstruction. Int Labour R 45:535-7 My '42

Self-feeding capitalism. J. E. Goodbar. Bankers M 144:532-4 Je '42

Strategy for democracy. J. D. Kingsley and D. W. Petegorsky. 342p $3 Longmans '42

Strength of nations; a study in social theory. G. Soule. 268p bibliog(p259-62) $2.50 Macmillan '42

Swords and plowshares; crux of postwar problem will be jobs. D. H. Davenport and D. Hitchcock. Harvard Business R 20 no 3:307-14 [Ap] '42

Time to inquire; how can we restore the freedom, opportunity, and dignity of the average man? S. Crowther. 353p $2.75 Day '42

Toward full use of our resources; analysis of the postwar problem. A. H. Hansen and G. Greer. Fortune 26:130-3+ N '42

Unfinished task: economic reconstruction for democracy. L. Corey. 314p $3 Viking press '42

ECONOMIC policy—*Continued*

World we want. R. Wyer. Mech Eng 64: 727-30 O '42

See also

Capitalism
Commercial policy
Communism
Debts, Public
Economic planning
Free trade and protection
Government loans to industry
Government regulation of industry
Industry and state
Money
Reconstruction (World war, 1939-)
Socialism
Tariff

also subdivision Commercial policy and Economic policy under names of countries, e.g. United States—Economic policy

ECONOMIC research

Economic research in war and reconstruction. 77p Nat. bur. econ. research '42

Symposium on the industrial economist. B. B. Smith and others. Harvard Business R 20 no 3:375-92 [Ap] '42

Twentieth century fund reviews work. Comm & Fin Chr 154:1231 N 27 '41

ECONOMIC stabilization, Office of. See United States—Economic stabilization, Office of

ECONOMIC statistics

Distributive costs of consumption commodities. B. M. Fowler and W. H. Shaw. Survey of Cur Business 22:12-17 Jl '42

Government and the statistician. W. W. Riefler. Am Statis Assn J 37:1-11 Mr '42

Gross flow of finished commodities and new construction, 1929-41. W. H. Shaw. Survey of Cur Business 22:13-20 Ap '42

Preliminary estimates of gross national product, 1929-41. M. Gilbert and R. B. Bangs. Survey of Cur Business 22:9-13 My '42

Statistical work of the League of nations in economic, financial and related fields. C. K. Nichols. Am Statis Assn J 37:336-42 S '42

See also

Business statistics
Cost of living—Statistics
Employment—Statistics
Income—Statistics
Index numbers (economics)
Industrial statistics
Labor and laboring classes—Statistics
Production—Statistics
Saving—Statistics
Wages—Statistics

ECONOMIC warfare, Board of. See United States—Economic warfare, Board of

ECONOMICS

Basic principles of economics and their significance for public policy. H. G. Brown. 542p $3; Questions and problems. 71p 30c Lucas bros, Columbia, Mo. '42

Capitalism can make economics a science. J. E. Goodbar. Comm & Fin Chr 155:1869 My 14 '42

Distribution theory. R. B. Pettengill. 73p pa $1.10 Univ. of southern California, Los Angeles '41

Economic principles and modern practice. H. R. Mussey and E. Donnan. 840p $4 Ginn '42

Economic principles in practice. B. W. Knight. rev ed 659p $3.50 Farrar '42

Economics and the consumer. E. M. Andres and C. D. Cocanower. 553p $3.50 Houghton '42

Economics in everyday life. K. E. Goodman and W. L. Moore. 498p bibliog(p482-92) $1.80 Ginn '41

Economics; principles and problems. L. D. Edie. 3d ed 1022p $4 Crowell '42

Economics: principles and problems. P. F. Gemmill and R. H. Blodgett. rev ed 2v in 1 582p, 523p $4.50 Harper '42

Employment and equilibrium, by A. C. Pigou; review by A. P. Lerner. R Econ Statis 24:87-92 My '42

Introduction to political economy. V. W. Bladen. 299p $2.25 Univ. of Toronto press, Toronto '41

Introductory economics. G. T. Brown. 190p bibliog(p185) $1.50 Appleton-Century '42

John R. Commons' point of view. K. H. Parsons. bibliog J Land & Pub Util Econ 18:245-66 Ag '42

Land, labor, and wealth; a handbook of economic terms. E. Winsor and R. W. Evans, comps. 117p $2 Caxton printers, Caldwell, Idaho '42

Our economic freedom. J. M. Clark. Ann Am Acad 220:178-85 Mr '42

Our economic problems. H. W. Bohlman and E. M. Bohlman. 588p $2 Heath '42

Private post war spending should be five times public spending. S. A. Holme. East Underw 43:8+ Mr 27 '42

Proceedings of Seventh annual economic conference, Rollins college, Winter Park, Fla., Feb. 2-4, 1942. 153p Rollins college, Winter Park, Fla. '42

Proceedings of the twentieth annual conference of the Pacific coast economic association at the University of southern California, Los Angeles, Dec. 29-30, 1941. C. Kerr, ed. 97p Univ. of Washington press, Seattle '42

Readings in modern economics. J. H. Moore and M. L. Hoch, comps. 662p $3.50 Nelson '41

Road we are travelling. S. Chase. Personnel J 20:294-6 F '42

Social goals and economic institutions. F. D. Graham. 273p $3 Princeton univ. press '42

This age of fable; the political and economic world we live in. G. Stolper. 369p $3 Reynal & Hitchcock, New York '42

Unused resources and economic waste. D. Rockefeller. 260p bibliog(p238-49) $2 Univ. of Chicago press '41

See also

Advertising—Economic aspects
Agriculture—Economic aspects
Balance of payments
Banks and banking
Business
Capital
Capitalism
Commerce
Communism
Competition
Consumption (economics)
Cooperation
Cost of living
Credit
Debt
Debts, Public
Depreciation
Economic conditions
Economic policy
Family allowances
Finance
Government regulation of industry
Housing
Income
Index numbers (economics)
Industrial relations
Industry
Interest
Labor and laboring classes
Land
Manufactures
Money
Population
Prices
Production
Profit
Profit sharing
Rent
Saving
Socialism
Speculation
Strikes
Tariff
Taxation
Trade unions
Transportation
Trusts, Industrial
Wages
War—Economic aspects
World war, 1939—Economic aspects

Bibliography

Bibliography of economic books and pamphlets by Catholic authors, 1891-1941. P. J. FitzPatrick and C. F. Dirksen. 55p pa 50c Catholic univ. of Am. press, Washington, D.C. '41

Book reviews. Published in bi-monthly numbers of Annals of the American academy of political and social science

Bulletin of the Public affairs information service, 27th annual cumulation, 1941. M. E. Furbeck and M. Mellinger, eds. 892p Public affairs information service, New York '41

List of current publications and annual index to the Economic record, the Management record, Conference board reports, Road maps of industry. 36p Nat. ind. conf. bd. '41

History

French predecessors of Malthus; a study in eighteenth-century wage and population theory. J. J. Spengler. 398p $4.50 Duke univ. press, Durham, N.C. '42

ECONOMICS—History—*Continued*
History of economic thought. E. Roll. rev & enl ed 585p bibliog(p557-61) $4 Prentice-Hall '42

Study and teaching

Economic education, or propaganda for "causes"? Consumers' Research Bul 9: cover, 23 N '41
Fitting economics into the thinking of the undergraduate engineer. D. S. Tucker. J Eng Educ 32:819-32 Je '42
Leaders of organized labor studying economics at Harvard; trade union fellowship plan. Steel 111:60 O 26 '42
Questions and exercises on the principles of economics. R. T. Bye. rev ed 127p $1 Crofts '41

ECONOMICS, Mathematical
Analysis of economic time series. H. T. Davis. 620p bibliog(p440-3, 497-8) $5 Principia press, Bloomington, Ind. '41
Studies in mathematical economics and econometrics, in memory of Henry Schultz. O. Lange, F. McIntyre and T. O. Yntema, eds. 292p $2.50 Univ. of Chicago press '42

ECONOMISTS
French predecessors of Malthus; a study in eighteenth-century wage and population theory. J. J. Spengler. 398p $4.50 Duke univ. press, Durham, N.C. '42

ECONOMISTS, Industrial
Symposium on the industrial economist. B. B. Smith and others. Harvard Business R 20 no 3:375-92 [Ap] '42

ECUADOR
Hails agreement on Ecuador-Peru frontier. S. Welles. Comm & Fin Chr 155:1043 Mr 12 '42

See also
Mines and mineral resources—Ecuador
Textile industry—Ecuador

Commerce

Foreign trade of Ecuador for 1939 and 1940. 6p Pan American union, Washington, D.C. '42

Commercial policy

New exchange regulations affecting trade with Japan. For Comm W 5:13 N 22 '41
Special exchange allotment and establishment of commercial office in Washington. For Comm W 6:14-15 Ja 3 '42

Economic conditions

Ecuador's economy in '41. il For Comm W 8:8-9, 35-6 Jl 18 '42
News by countries. For Comm W 7:13-14 Ap 25; 8:16 Jl 4; 13-14 Jl 25; 9:16-17 O 31 '42

Industries and resources

Button, button, who's got the button? Ecuador's vegetable ivory provides the answer for U.S. military uniforms. il For Comm W 6:6-7, 32-3 Ja 31 '42

ECUSTA paper corporation
Ecusta will double its cigarette paper production. Paper Ind 23:861-2 D '41

EDDY currents
Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42
Eddy current tuning. C. C. Eaglesfield. diags Wireless Eng 19:202-9 My '42
Eddy current type flaw detectors for non-magnetic metals. I. Vigness, J. E. Dinger and R. Gunn. diags J Ap Phys 13:377-83 Je '42
Eddy currents in a rotating disk. W. R. Smythe. diags Elec Eng 61:Trans 681-4 S '42

EDEN, (Robert) Anthony, 1897-
Portrait. Fortune 25:103 Ap '42

EDGE tones. See Tones

EDGERTON, Herbert Oliver, 1862-1942
Sketch. East Underw 43:10 Ap 24 '42

EDINBURGH university
Some early American students of chemistry at the University of Edinburgh, 1750-1800. M. E. Kapp. bibliog J Chem Educ 18:553-9 D '41

EDISON, Thomas Alva, 1847-1931
Edison's birthday is observed nationally. Edison Elec Inst Bul 10:41-2 F '42

EDISON electric institute
Annual meeting, New York. il Elec W News ed 117:2149-51 Je 20 '42
E.E.I. publications and promotional material. Edison Elec Inst Bul 10:318-19 Ag '42
Meeting of gas and electric industry accountants on war emergency problems and procedures. Edison Elec Inst Bul 10:201+ My '42
Personnel of accounting and commercial committees 1942-1943. Edison Elec Inst Bul 10: 385-7 O '42
Personnel of accounting committees, 1941-1942. Edison Elec Inst Bul 9:501-2 D '41
Personnel of E.E.I. committees for 1942-1943. Edison Elec Inst Bul 10:313-16 Ag '42
Report of the prize awards committee. H. P. Liversidge. Edison Elec Inst Bul 10:239-42+ Je '42
Sales conference, 9th, Chicago, March 24-26. Edison Elec Inst Bul 10:113-15 Ap '42; Elec W News ed 117:1096-8 Mr 28 '42
Spring meeting of committees. Edison Elec Inst Bul 10:202-5 My '42

EDISON electric institute medal
Eighteen receive Edison electric institute medals. M. B. Woods. il Edison Elec Inst Bul 10:63-9 F '42

EDISON medal
Dr J. B. Whitehead gets Edison medal for 1941. Elec W 116:2077 D 27 '41
John B. Whitehead; 1941 Edison medalist; address by F. M. Farmer, with response by J. B. Whitehead. Elec Eng 61:135-8 Mr '42

EDITING
See also
Moving pictures—Editing

EDITORIALS
See also
Newspapers—Editorials

EDUCATION
Does educational preparation pay? D. F. Cocks. Credit & Fin Management 43:10-11 D '41
Education and industry. J. D. Cunningham. Mech Eng 64:654-6 S '42
Education for the air age. Aero Digest 40: 70+ My '42
Education to a peaceful civilization must transcend national interest. F. Frankfurter. Comm & Fin Chr 156:1270 O 8 '42

See also
Business education
Chemical education
Colleges and universities
Education of workers
Employees, Training of
Engineering education
Industrial education
Lecture method
Libraries
Medical education
Mining schools and education
Moving pictures in education
Radio in education
Technical education
Trade schools
Vocational education

Consult Education Index for additional references

Bibliography

Bibliography of recent educational bibliographies. W. W. Brickman. p481-512 pa 50c; unbound 40c William W. Brickman, School of education, New York univ, Washington sq, New York '41
Education index, July 1941-June 1942. 834p Wilson, H.W. '42

Directories

Educational directory, 1941. U S Office of Educ Bul 1941, no 1:1-51; 1-52; 1-129; 1-78 '41

EDUCATION—*Continued*

International aspects

Report of the Conference of foreign student advisers, April 28-30, 1942, Cleveland. 118p Inst. of international education, 2 W. 45th st, New York '42

Philosophy

Education between two worlds. A. Meiklejohn. 303p $3 Harper '42

Forty-first yearbook of the National society for the study of education; pt. 1, Philosophies of education. N. B. Henry, ed. 321p $3; pa $2.25 Public school pub. co, Bloomington, Ill. '42

Great Britain

Plan for education? Economist 142:536-7 Ap 18 '42

Public's schools. Economist 142:849-50 Je 20 '42

Schools and schooling; post-war problems. Economist 141:465-6 O 18 '41

United States

Industrialists and educators at joint conference discuss mutual problems arising from war. Comm & Fin Chr 156:1546 O 29 '42

Introduction to American public education. C. A. DeYoung. 727p $3.25 McGraw-Hill '42

Outlook for education. I. Bowman. Science 95:126-7 Ja 30 '42

EDUCATION, Higher

See also

Colleges and universities

EDUCATION and war. See War and education

EDUCATION of workers

Labor and education in 1940. 41p American federation of labor, A.F. of L. bldg, Washington, D.C. '41

Special technical courses for adult workers in Sheffield. Chem & Ind 61:69-70 F 7 '42

Technical education of works foremen. J. H. Clayton. Chem & Ind 60:827-8 N 22 '41

Workers' education in the United States; fifth yearbook of the John Dewey society. T. Brameld, ed. 338p bibliog(p303-15) $2.50 Harper '41

See also

Employees, Training of

Industrial education

Vocational education

EDUCATIONAL advertising. See Advertising, Educational

EDUCATIONAL associations

Directories

Educational directory, 1941. U S Office of Educ Bul 1941, no 1:1-51; 1-52; 1-129; 1-78 '41

EDUCATIONAL psychology

Educational psychology. W. W. Cruze. 572p $3.25 Ronald press '42

Educational psychology. A. I. Gates and others. rev ed 805p $3 Macmillan '42

EDUCATIONAL sociology

Sociological foundations of education; a textbook in educational sociology. J. S. Roucek, ed. 771p $3.75 Crowell '42

EFFICIENCY

Effect of size on efficiency. R. N. Anthony. Harvard Business R 20 no 3:290-306 [Ap] '42

Principles of scientific blitzing; a study in human engineering; scientific principles of decreasing time lag. E. Don. 4th ed rev & enl 93p pa $1 Edward Don & co, 2207 S. La Salle st, Chicago '41

Twelve ways to improve your work. J. Garth. Am Business 12:28-30 Ja '42

EFFICIENCY, Industrial

Bases of worker efficiency. H. M. L. Murray. Personnel J 21:131-45 O '42

Better concentration reduces employee turnover 47%; adjustment of noise factor increased general efficiency 8.8%. A. Wilson. Bankers Mo 59:254-5 Je '42

Better lighting means better work in all plant departments. C. N. Everett. il Inland Ptr 108:36-9 N '41

Hoopla does it! RCA-Victor's program combines suggestion box and output contest. il Business Week p76-8 F 14 '42

How we doubled the output of our inspectors; Hoover ball & bearing company, Ann Arbor. D. W. Saxton. il diags Factory Management 100:85-7 N '42

Impairment of productivity. A. C. Ivy. Ind Med 11:138-9+ Mr '42

Influence of the unit of supervision and the span of executive control on the economy of line organization structure. R. C. Davis. 25p pa 50c Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '41

Intelligence at work; a study of the principles and philosophy of management and of its human relations in supervision and foremanship. J. I. Tucker. 428p $4.25 Leader, 1100 S. Grammercy drive, Los Angeles '42

Light for production. il Factory Management 100:103-6 Mr '42

Lighting for production. J. O. Kraehenbuehl. il Edison Elec Inst Bul 10:139-42 Ap '42

Principles of scientific blitzing; a study in human engineering, scientific principles of decreasing time lag. E. Don. 4th ed rev & enl ed pa $1 E. Don & co, Chicago '41

Putting work simplification to work; Johns-Manville, Manville, N.J. A. B. Hall. il Factory Management 100:126-7+ Ag '42

Recommended optimum hours for maximum production. Monthly Labor R 55:459-60 S '42

Relation between size and efficiency of business. J. M. Blair. bibliog R Econ Statis 24:125-35 Ag '42

Seeing eyes; standards of visual functions based on the needs of the job. H. S. Kuhn. Nat Safety N 46:34+ S '42

65 billion man-hours; only if industry substantially increases efficiency, can our labor supply fulfill our war program. A. H. Mogensen. il Fortune 25:76-7+ Mr '42

Some aspects of non-financial and financial incentives. H. B. Maynard. Advanced Management 7:123-6+ Jl-S '42; Abstract. Trusts & Estates 75:345-6 O '42

Speed promotes accuracy in posting machine operation. il Bankers Mo 58:545-7 D '41

United aircraft; report on Foodex survey. E. M. Jellinek. Ind Med 11:225, 227-8 My '42

When every employee seeks a better way; Chicago office of Johnson and Johnson. M. G. Heuer. il Am Business 11:26-7+ N '41

Where's and how's of better utilization of materials, equipment and labor. P. Jessen. Advanced Management 7:86-90 Ap-Je '42

Work simplification can speed war production. A. H. Mogensen. il Aviation 41:116-19, 310+ Jl '42

Work simplification taught to employees; Walter Kidde & co. supplements work of suggestion box program. il Ptr Ink 200:20-1 Ag 7 '42

See also

Ability tests

Business management

Employees—Rating

Employment management

Executives

Factory management

Fatigue

Foremen

Industrial engineering

Industrial management

Machine shop management

Machine shops—Lighting

Machinery, Replacement of

Machinery in industry

Mine management

Motion study

Office management

Planning

Schedules

Sheet metal shops—Management

Stakhanovism

Standardization

Time study

EFFLORESCENCE

Bibliography

Where to look for facts on efflorescence. Brick & Clay Rec 100:42 F '42

EGAN, James William, jr.

Gallery; the aspects of Egan. D. Dignam. pors Adv & Sell 35:30, 32 O '42

EGG albumin. See Albumin

EGG trade

Egg marketing in the Los Angeles area. H. E. Erdman, G. B. Alcorn and A. T. Mace. (Agricultural exp. station bul. 656) 91p Univ. of California, Berkeley '41

No hen-egg riddle; both come first as income producers. il Business Week p24+ Ja 17 '42

EGGS

Data and regulations on use of egg yolk. B. I. Masurovsky. Food Ind 14:65+ Ap '42

Egg production increased by hormones in poultry food. F. Thone. Science 96:sup10 Ag 28 '42

Eggs go to town and to Britain, via FSCC. Business Week p32 N 15 '41

See also
Egg trade

Analysis

Use of enzymes in the refractometric method for egg solids; a production control method. W. M. Urbain, I. H. Wood and R. W. Simmons. bibliog Ind & Eng Chem Anal ed 14: 231-3 Mr 15 '42

Preservation

See also
Eggs, Frozen

Statistics

Lend-lease purchase of eggs and egg products during first 18 months. For Comm W 9:27-8 N 7 '42

Storage

Eggs kept at 60F and 85% in conditioned auction vaults. Heat & Ven 38:42 N '41

Transportation

War-time food problems; transport of bacon and shell eggs to Britain. W. H. Cook. il Can Chem & Process Ind 26:114, 116 F '42

EGGS, Dried

Beating and baking properties of dried egg. E. B. Bennion, J. R. Hawthorne and E. C. Bate-Smith. Soc Chem Ind J 61:31-4 F '42

Dehydrated meat and eggs; abstract. E. C. Bate-Smith. Chem & Ind 61:342 Ag 8 '42

Directory of egg driers. Food Ind 14:63 Ag '42

Directory of whole-egg driers; plants in operation and contracted to be built, as of December 15, 1941. Food Ind 14:69 Ja '42

Dried eggs. Economist 142:903 Je 27 '42

Egg driers cautioned about quality control. Food Ind 14:77 Jl '42

Egg driers get helpful advice; Dried egg school, Kansas City, Mo. Feb. 28. Food Ind 14:72 Ap '42

Egg drying plants increase; need underwriting. Nat Underw 46:4 Jl 2 '42

Eggs for England. il Business Week p64 Ap 4 '42

How eggs are dried; methods and standards. H. A. Mulvany. il Food Ind 13:50-2+ D '41

Testing

Fluorescence as a measurement of quality in dried whole egg powder; abstract. J. A. Pearce and M. W. Thistle. Food Ind 14:110 N '42

Method developed for grading a dehydrated food. R. V. Wilson and H. M. Slosberg. il Food Ind 14:56-8 S '42

EGGS, Frozen

Cellophane packing for frozen eggs saves metal. Refrig Eng 44:100 Ag '42

Freezing of eggs. M. E. Pennington. il plan Refrig Eng 42:1-6 sec 2 D '41

EGYPT

Economic conditions

Change over in Egypt. Economist 143:175 Ag 8 '42

Economic importance of Egypt. K. F. Cahill. il For Comm W 6:3-5+ Mr 14 '42

Egypt in 1941. Economist 142:sup12 Mr 14 '42

Inflationary trends in Egypt. Economist 141: 565 N 8 '41

Economic policy

Fighting inflation in Egypt. Economist 142: 187-8 F 7 '42

EILERS, Karl Emrich, 1865-1941

Institute establishes Karl Eilers memorial fund. Min & Met 23:37-8 Ja '42

EINSTEIN functions

Six-place table of the Einstein functions. J. Sherman and R. B. Ewell. J Phys Chem 46:641-62 Je '42

EKATANTALUM

β-ray spectra of rubidium^{86}, strontium^{89}, ekatantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42

ELASTIC goods

No rubber for Bauer & Black, but keep fit ads keep old friends; window display program continues. il Sales Management 50: 26+ Je 15 '42

ELASTIC stop nut corporation

Preferred stock offered. Comm & Fin Chr 156:1468+ O 26 '42

To issue $2,500,000 new 6% preferred stock. Comm & Fin Chr 156:1149 S 28 '42

Wartime odyssey. Business Week p101-2 O 24 '42

ELASTICITY

Behavior of plastics under vibrations; mild steel, duralumin, laminated plastics, polymethyl methacrylate. B. J. Lazan. bibliog il diags Mod Plastics 20:83-8+ N '42

Determination of the elastic constants of beta-quartz. E. W. Kammer and J. V. Atanasoff. il diags Phys R 62:395-400 O 1 '42

Discussion of dynamic methods of testing concrete with suggestions for standardization. L. Obert and W. I. Duvall. diags Am Soc T M Proc 41:1053-70; Discussion. 1071 '41

Elastic energy theory. J. A. Van den Broek. 2d ed 298p $4.50 Wiley '42

Elastic properties of some alloy cast irons. A. I. Krynitsky and C. M. Saeger, jr. bibliog pls J Research Nat Bur Stand 28:73-94 Ja '42

Elastic theory for rubber. E. Latshaw. diags Franklin Inst J 234:63-73 Jl '42

Elastic theory in sheet metal forming problems. F. R. Shanley. bibliog il diags J Aeronautical Sci 9:313-33 Jl '42; Same cond. Automotive & Aviation Ind 87:112+ O 1; 33-7 O 15 '42

Elasticity and creep of Pb single crystals. I. H. Swift and E. P. T. Tyndall. Phys R 61:359-64 Mr 1 '42

Elasticity of glass at high temperatures, and the vitreous basaltic substratum. F. Birch and D. Bancroft. bibliog Am J Sci 240: 457-90 Jl '42

Elasticity of wool; relation to chemical structure. M. Harris, L. R. Mizell and L. Fourt. bibliog Ind & Eng Chem 34:833-8 Jl '42; Same. J Research Nat Bur Stand 29:73-86 Jl '42; Same. Am Dyestuff Rep 31: 376-80, 392-4 Ag 3 '42

Extension of Saint-Venant's principle, with applications. J. N. Goodier. bibliog diags J Ap Phys 13:167-71 Mr '42

Introduction to the theory of elasticity for engineers and physicists. R. V. Southwell. 2d ed 509p bibliog(p498-500) $10 Oxford '42

Mechanical behaviour of bitumen. W. Lethersich. bibliog diags Soc Chem Ind J 61:101-8 Jl '42

Mechanical properties of substances of high molecular weight; rigidities of the system polystyrene-xylene and their dependence upon temperature and frequency. J. D. Ferry. bibliog Am Chem Soc J 64:1323-9 Je '42

Modulus of elasticity and damping capacity of iron and iron alloys. W. Köster. Engineer 173:514-15 Je 19 '42

Modulus of elasticity of dinnerware bodies by a sonic-vibration method. S. V. Forgue and G. A. Loomis. bibliog il diags Am Cer Soc Bul 20:425-30 D '41

Operational theory of longitudinal impact. L. A. Pipes. diags J Ap Phys 13:503-11 Ag '42

ELASTICITY—*Continued*

Phase transition and elastic behavior of high polymers. H. Mark. bibliog diags Ind & Eng Chem 34:449-54 Ap '42

Plastics and the time factor. H. Leaderman. Am Dyestuff Rep 31:227-30, 246-8 My 11 '42

Reaction of an elastic wing to vertical gusts. W. R. Sears and B. O. Sparks. bibliog J Aeronautical Sci 9:64-7 D '41

Relaxation effects in amorphous media. R. Simha. bibliog J Ap Phys 13:201-7 Mr '42

Some observations on the mechanical testing and flow properties of industrial plastics. E. G. Couzens and W. G. Wearmouth. bibliog Soc Chem Ind J 61:69-74 My '42

Statistical thermodynamics of rubber. F. T. Wall. J Chem Phys 10:132-4, 485-8 F, Jl '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

Theory of rubber elasticity for development of synthetic rubbers. H. M. James and E. Guth. bibliog il Ind & Eng Chem 34:1365-7 N '42

Theory of the elasticity of polycrystals with viscous grain boundaries. C. Zener. bibliog Phys R 60:906-8 D 15 '41

Variation of elastic characteristics on statically indeterminate quantities. A. Hrennikoff. diags Am Soc C E Proc 68:71-93 Ja '42; Discussion. 68:661-4, 819-21, 1427-32 Ap-My, O '42

Variation with temperature of the principal elastic moduli of NaCl near the melting point. L. Hunter and S. Siegel. bibliog il diag Phys R 61:84-90 Ja 1 '42

Vibration properties of rubberlike materials; dependence on temperature. R. B. Stambaugh. bibliog il diag Ind & Eng Chem 34:1358-65 N '42

Young's modulus of elasticity and some related properties of graphitic materials. H. A. Schwartz and C. H. Junge. Am Soc T M Proc 41:816-23; Discussion. 824 '41

See also

Bending moment
Deformations (mechanics)
Fatigue in metals
Photoelasticity
Plasticity
Strains and stresses
Strength of materials

ELASTICITY of demand, Coefficient of. See Supply and demand

ELASTI-GLASS

Elastiglass dermatitis; abstract. I. Greenfield. J Ind Hygiene 24:sup97 My '42

FTC-Elasti-glass hearings. Glass Ind 23:25+, 94+, 138, 306 Ja, Mr-Ap, Ag '42

ELDRIDGE, James R.

Fire meets its match; Endicott Johnson fire brigade. L. F. Maar. pors Nat Safety N 45:14-15+ Ap '42

ELECTIONS

Those public ownership election campaigns. A. M. Cooper. Pub Util 29:216-21 F 12 '42

ELECTRETS

Field of electrets in the presence of gaseous ions. A. Gemant. bibliog Phys R 61:79-83 Ja 1 '42

ELECTRIC accidents. See Electricity, Injuries from

ELECTRIC alarms

Automatic alarm systems for use in conjunction with fences built to protect property. il Electronics 15:156 Je '42

Detecting incendiary bombs; electrical means. Elec R (Lond) 129:511 N 7 '41

Detection of incendiary bombs; simple automatic devices. Electrician 127:269-70 N 7 '41

Electronic intrusion-detection systems; burglar-alarm devices employing photoelectric, capacity and acoustic relays. il diags Electronics 15:38-43 F '42

Ground alarms; safe operation of electric draglines. diag Eng & Min J 143:69-70 S '42

Incendiary-bomb detection. E. Burke. il diag Elec R (Lond) 130:429-30 Ap 3 '42; Same cond. Elec W 118:153-4 Jl 11 '42

Invisible light used to fight sabotage. R. E. Appel. diags Water Works & Sewerage 89:260 Je '42

Low-level alarm for stoker hoppers. S. M. Elonka. diag Power 86:510 Jl '42

One-lane tunnel accommodates two-way traffic by electronic operation. il Roads & Bridges 80:37, 86 S '42; Heat & Ven 39:34 O '42

Photoelectric intrusion detection system; protection of industrial plants against sabotage. Electronics 15:73-4 Mr '42

Photo-electric smoke meters. R. J. Wey. diags Engineer 173:320-2 Ap 17 '42

Photoelectrics for industrial safety; equipment using infra-red rays suited for protection of defense plants. R. E. Appel. il diags Radio N 27:36-7+ My '42

Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

ELECTRIC analogies. See Heat transmission—Electric analogy; Mechanics—Electric analogy

ELECTRIC and musical industries, limited

Annual meeting, London. Economist 142:22-3 Ja 3 '42

Emmies accounts for the year to Sept. 30th. Economist 141:728 D 13 '41

ELECTRIC apparatus and appliances

Electrical balancing machines. S. F. Philpott. il diags Elec R (Lond) 131:37-40 Jl 10 '42

Electrical engineering in 1941. il Engineer 173:27-9, 46-9, 68-9 Ja 9-23 '42

Recent electrical engineering developments in the United States of America. A. E. Knowlton. Inst E E J 89 pt 1:279-85 Je '42

Screening electrical apparatus; use of graphite coatings. Engineer 173:169 F 20 '42; Engineering 153:178 F 27 '42; Electrician 128:196-7 Mr 6 '42

Stabilize level and spread of utilization voltage. C. E. Arvidson. Elec W 116:1565-7 N 15 '41

See also

Armatures
Clocks, Electric
Coils
Condensers (electricity)
Electric cables
Electric circuit breakers
Electric controllers
Electric furnaces
Electric generators
Electric instruments
Electric inverters
Electric machinery
Electric meters
Electric motors
Electric protective apparatus
Electric rectifiers
Electric transformers
Electricity in mining
Photoelectric cells
Potentiometers
Radio apparatus
Refrigerators, Electric
Relays
Selsyn apparatus
Storage batteries
Voltage regulators

Cost of operation

Bill chart aids in dealer estimating. Elec W 116:1596 N 15 '41

Manufacture

Brazing practice in the electrical industry. il diags Elec R (Lond) 131:513-16 O 23 '42

Critical materials, their conservation by the use of alternates. J. Horn. il Gen Elec R 45:407-14 Jl '42; Same cond. Electrician 129:272-6 S 11 '42; Excerpt. Steel 110:34-5, 59-62 Je 8 '42; Abstract. Elec Eng 61:318-19 Je '42

Economising nickel; alternative alloys for control gear. Elec R (Lond) 131:387-91 S 25 '42

Fighting the production battle with ideas; Westinghouse electric & mfg. co. suggestion system. Steel 111:59, 66+ S 28 '42

5500 parts present special handling task; assembly of self-contained induction heating units. A. J. Byerly. il plan Steel 110:88, 90, 93 Mr 2 '42

Infra-red tunnel breaks bottleneck; Square D company. il Elec W 118:644 Ag 22 '42

Mass production for precision equipment; Hallicrafters co. H. J. Emerson. il Electronics 14:42-5 N '41

Material saved in electrical parts. il diags Product Eng 13:376-7 Jl '42

ELECTRIC apparatus and appliances—Manufacture—*Continued*

Quality control assures consistent welding of diversified metals; Westinghouse electric & mfg. co. F. C. Gandert. il Steel 110:95-6 Ap 27 '42

Redesign, substitution, simplification, and standardization; Westinghouse electric and manufacturing company. D. R. Kellogg. Mech Eng 64:30-1 Ja '42; Abstracts. Am Mach 86:96-8 F 5 '42; Steel 110:72-3+ Ap 20 '42

Scrap recovery at a large electric plant; Western Electric plants. F. A. Shewmake. il Metals & Alloys 16:263 Ag '42

Soldering electrical joints. diag Elec R (Lond) 131:263-6, 294 Ag 28-S 4 '42

Merchandizing

Appliances and war; latest rulings in sales restrictions. Elec West 88:65-6 Ap '42

Business guide for electrical dealers and salesmen. Elec West 88:45-8 Ja '42

For value received; customers are pleased. K. Hampton. Elec West 89:64 S '42

Helping the dealers to help themselves. S. P. Vecher. Edison Elec Inst Bul 10:124-6 Ap '42

Hire-purchase agreements; effects of a recent judicial decision. F. E. Sugden. Elec R (Lond) 130:346-7 Mr 13 '42

Regulation W cuts appliance sales. Elec W 117:534 F 7 '42

Salesman's wartime job. Elec West 89:51-2 Jl '42

Some new problems in industrial sales. J. F. Gaskill. Edison Elec Inst Bul 9:485-9 D '41

Where do we go from here? western appliance industry. il Elec West 88:62-72, 77-81 F '42

See also

Electric apparatus and appliances, Domestic—Merchandizing

Electric apparatus industry

Electric industries

Electric utilities—Appliance selling

Patents

New patents. Published in weekly numbers of Electrical review (London)

Rating

Application of apparatus and conductors under various ambient-temperature conditions. R. E. Hellmund and P. H. McAuley. diags Elec Eng 61:Trans 553-8 Ag '42

Current ratings of electronic devices for intermittent service. R. E. Hellmund. bibliog Elec Eng 61:Trans 569-73 Ag '42

Dual rating of electrical apparatus. P. L. Alger. Elec Eng 60:569-71 D '41; Same. Ind Stand 13:40-3 F '42; Excerpts. Mech Eng 64:137-8 F '42

Repair

Appliance service forms simplified. H. F. Woodall. Elec W 117:1011 Mr 21 '42

Business guide for electrical dealers and salesmen; service and repair. Elec West 88:73-5 F '42

Conservation theme of appliance repair plan; New Orleans Public Service program for dealers. il Elec W 117:1347-8 Ap 18 '42

Liability for repaired goods. Elec R (Lond) 131:182 Ag 7 '42

Repair service to please. K. Hampton. Elec West 89:72 O '42

St Louis surveys repair agencies. Elec W 118: 498 Ag 8 '42

Sample statement showing method which shops servicing electrical and gas appliances and radios must file with local War price and rationing board. Am Gas J 157: 50-1 O '42

Standards

Appliance standardisation. A. C. Hazel. Elec R (Lond) 130:166 F 6 '42

Control of quality. F. E. Butcher. Elec R (Lond) 130:182-3 F 6 '42

Testing

Inspection and testing of mine-type electrical equipment for permissibility. L. C. Ilsley, E. J. Gleim and H. B. Brunot. U S Bur Mines Information Circ 7185:1-21, pl 1-6 '41

Instructions for testing electric apparatus. 2d ed 581p $3 General electric co, Schenectady, N.Y. '41

Supply system maintenance; ready aid afforded by electrical measurements. C. W. Marshall. Elec R (Lond) 129:733-4 D 26 '41

ELECTRIC apparatus and appliances, Domestic

Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:49-53 Ja '42

Home-drying fruits and vegetables by electricity. L. W. Gray. il Elec W 118:1316+ O 17 '42

See also

Electric cooking

Electric heaters

Electric irons

Electric stoves

Electric water heaters

Electricity in the home

Refrigerators, Electric

Washing machines, Electric

Advertising

Modern kitchen bureau communique makes its initial bow. Edison Elec Inst Bul 10: 354 S '42

Modern kitchen bureau movie geared to war conditions. il Edison Elec Inst Bul 10:33 Ja '42

MKB programs harmonized with war needs. H. L. Martin. il Edison Elec Inst Bul 9: 499-500 D '41

Sales sound films exploited in double feature; Hotpoint's all-electric kitchens. il Ptr Ink 198:24-5+ Ja 16 '42

See also

Electric stoves—Advertising

Merchandizing

Appliances in schools build future demand; Wisconsin power & light company installs equipment for home economics classes. J. E. Canfield. il Elec W 117:1183 Ap 4 '42

Indianapolis survey of appliance usage. Elec W 117:2110+ Je 13 '42

Kitchen planning service as good-will builder; Connecticut light & power company. H. C. Johnson. il Elec W 116:1722-3+ N 29 '41

Maintaining residential usage by our customers. A. C. Crandall. Edison Elec Inst Bul 10:149-52 Ap '42

Package idea nets returns for store; Los Angeles firm builds business around war worker. Elec West 89:74-5 O '42

Sales guide. il Elec West 87:45-8 N '41

Sell and repair appliances from trucks house-to-house; Kansas City power & light company. P. K. Berry. il Elec W 117:2064-5 Je 13 '42

Selling was fun. W. G. Clary. il Elec West 89:56-8 S '42

Time to survey the domestic market. R. H. Jones. Elec W 117:650 F 21 '42

War-time selling at San Diego. Elec W 117: 1908-9+ My 30 '42

Why he needed two showrooms; Ideal plumbing and heating service co. sells electric appliances. il Dom Eng 159:66-7+ Ja '42

See also

Electric irons—Merchandizing

Electric shops (retail trade)

Electric utilities—Appliance selling

Prices

Electrical appliances price frozen by OPA. Comm & Fin Chr 155:1451 Ap 9 '42

Repair

Dealers tied-in to factory service program; western service center established in San Francisco. il Elec West 88:72-3 Je '42

Domestic appliance repairs. F. D. Parker. Electrician 128:449-50 My 8 '42

ELECTRIC apparatus and appliances, Domestic—Repair—*Continued*

Duquesne Light launches appliance service plan. G. W. Ousler. il Elec W 118:767-9 S 5 '42

Improvisation at Hull; domestic repair shop practice in wartime. D. Bellamy. il Elec R (Lond) 130:404-5 Mr 27 '42

Indianapolis survey of appliance usage. Elec W 117:2110+ Je 13 '42

Old-business department; New England gas & electric company; appliance surveys, repair service, etc. il Elec W 117:1507-8 My 2 '42

Pacific gas and electric company repair service; cooperative program carried to electric dealers. il Elec West 88:74 Je '42

Reconditioning appliances. il Elec R (Lond) 131:279 Ag 28 '42

Repair problem. Business Week p44+ O 24 '42

Sell and repair appliances from trucks house-to-house; Kansas City power & light company. P. K. Berry. il Elec W 117:2064-5 Je 13 '42

Utility now sells appliance service. Elec W 118:658 Ag 22 '42

ELECTRIC apparatus and appliances, Used

Appliance exchange a boon to customers; Nebraska power company. Elec W 118:498 Ag 8 '42

ELECTRIC apparatus industry

About irreparable appliance parts. B. P. Bovard. Elec W 118:1488 O 31 '42

Appliance advertising & merchandising. R. E. Mangan. 164p $2 Business news pub. co, Detroit '41

Electric age? appliance dealers doubt it. Business Week p54 Jl 11 '42

Everything's under control; Cutler-Hammer's output of electrical equipment is up 500 per cent. il Fortune 26:96-8+ Ag '42

General Electric's post-war planning. W. M. Timmerman. Refrig Eng 44:162-5+ S '42

How Cook Electric landed millions in orders from Uncle Sam; interview with W. C. Hasselhorn. il Sales Management 50:22-4 Je 15 '42

Industrial manufacturer integrates salesmen's program; Westinghouse trains staff to be of maximum help to customers. T. Fort. il Ptr Ink 201:18-19+ O 9 '42

Instrument industry. W. Phillips. Elec R (Lond) 130:67-8 Ja 16 '42

Jubilee of Brown, Boveri and company. il Engineering 153:281-3, 321-3, pl 1-2 Ap 10, 24 '42

Priorities and the price freeze. Elec West 88:108-9 Je '42

Saving the dealers; electrical-appliance outlets. Business Week p50-1 F 28 '42

Tailoring sales and promotion programs to meet wartime needs; Westinghouse. J. M. McKibbin. il Ind Marketing 27:16-17+ Ap '42

WPB, OPA rulings clarified. Elec West 89: 78-9 O '42

See also

Electric apparatus and appliances—Merchandizing

Electric apparatus and appliances, Domestic—Merchandizing

Electric industries

Washing machines, Electric

also General electric company; Westinghouse electric and manufacturing company

Accounting

Inventory control to fit new regulations; Raybro electric company, Tampa, Fla. L. H. Houck. il Am Business 12:10-12 O '42

War-time electrical book-keeping. S. H. Withey. Electrician 127:268-9 N 7 '41

Advertising

Appliance wartime advertising trends. il Elec W 117:1706 My 16 '42

Glimpse into the miracle electronic world of tomorrow; General Electric's current institutional advertising campaign. L. M. Hughes. il Sales Management 51:18-20 S 15 '42

Graybar, oversold, advertises to guard postwar good-will. C. J. Swan. il Ptr Ink 197: 15-17 N 14 '41

Hotpoint ads urge bonds today for your bungalow tomorrow. il Sales Management 51:26 O 1 '42

How Westinghouse built a condensed catalog for distributors. J. M. McKibbin. il Ind Marketing 27:22-3+ Jl '42

Promotes savings in war bonds to pave way for postwar sales; Hotpoint merchandising project. G. H. Smith. il Ptr Ink 200:15-17 S 4 '42

Results of pre-test of long-range advertising. W. A. Sturgis. il Ptr Ink 200:16-17 Jl 24 '42

This direct mail is geared to industrial selling; Ferranti electric limited. G. A. Brace. il Ptr Ink 198:16-17+ Ja 9 '42

Wesco tells the part an electrical wholesaler plays in war. A. W. Sullivan. il Ind Marketing 27:24-5+ My '42

What buyers of electrical equipment want in advertising copy; twenty-one men pass judgment on over 1,000 pieces of advertising. L. W. Dunn. il Ind Marketing 27:18-20, 100-1 F '42

What to advertise this year; Proctor electric company advertising objectives and program. R. M. Oliver. il Ptr Ink 198:16-17+ Ja 30 '42

See also Electric apparatus and appliances, Domestic—Advertising

Directories

Manufacturers' directory; with list of western branch offices or western representatives. Elec West 88:103-25 Ap '42

Finance

Electric equipments in war. W. Gates. Mag of Wall St 70:288-9+ Je 27 '42

Electrical supplies; SEC survey of American listed corporations. Comm & Fin Chr 155: 683 F 12 '42

Outlook for electrical equipments. Barron's 22:12 F 23 '42

Service

Sales contest technique to speed service to user; Westinghouse service opportunity contest. E. J. Hegarty. Ptr Ink 200:26+ Jl 31 '42

Westinghouse goes all out to push service, and here's the sales plan. il Sales Management 50:18-20 F 15 '42

Statistics

Domestic electric appliances in 1941. Edison Elec Inst Bul 10:16+ Ja '42

Household appliances determine amount of electricity used; growth of consumer's investment since 1924. Edison Elec Inst Bul 10:138 Ap '42

Manufacturing statistics, 1941. Elec W 117: 286-7 Ja 24 '42

Shipments of electrical household appliances, excluding refrigerators; new series, monthly, Jan. 1934-Oct. 1941. Survey of Cur Business 22:21 Ja '42

Argentina

Argentine electrical market; statistical data. Elec R (Lond) 131:215 Ag 14 '42

Argentine imports, first half of 1941. Elec R (Lond) 130:88 Ja 16 '42

Argentine imports, 1940 and 1939 compared. Elec R (Lond) 130:633-4 My 15 '42

Trade with Argentina, 1940 and 1941 compared. Electrician 129:191 Ag 21 '42

Australia

Australian market; production and imports for 1939-40. Elec R (Lond) 129:670 D 12 '41

Bolivia

Bolivian imports; 1940 compared with 1938. Elec R (Lond) 131:530 O 23 '42

Brazil

Brazil's electrical trade. Elec R (Lond) 130: 192 F 6 '42

ELECTRIC apparatus industry—*Continued*

California

California promotional leagues merge. Elec West 88:51-2, 57 Mr '42

Chile

Chilean trade; 1941 compared with 1940. Elec R (Lond) 131:530-1 O 23 '42

China

Electrical manufacture in China. Elec R (Lond) 129:590 N 21 '41

Colombia

Colombian imports, 1939 and 1940 compared. Elec R (Lond) 130:768 Je 12 '42
Colombia's imports, 1940. For Comm W 8:24 S 12 '42

Egypt

Egyptian electrical imports. Elec R (Lond) 129:408 O 17 '41

Great Britain

Appliances and further control. Electrician 129:170-1 Ag 14 '42
Contract price adjustments; British electrical and allied manufacturers association. Engineering 154:252 S 25 '42
Co-ordination as a means to standardization. E. G. Taylor. Inst E E J 89 pt 1:77-80 F '42; Excerpts. Electrician 127:205-6 O 10 '41
Domestic appliance repairs. F. D. Parker. Electrician 128:449-50 My 8 '42
Electrical equipment results; British Thomson-Houston and British insulated cables for 1941. Economist 142:403 Mr 21 '42
Electrical manufacturing in 1941; annual report of the B.E.A.M.A. Elec R (Lond) 130:523-4 Ap 24 '42
Electrical trade purchases. S. H. Withey. Electrician 129:227-8 Ag 28 '42
Engineering outlook; electrical engineering. Engineering 153:183-4 Mr 6 '42
Fair trading policy; annual report. Electrician 127:330 D 12 '41
Manufacture and supply; new restrictions. Elec R (Lond) 131:46 Jl 10 '42
Manufacturing activities in 1941. Electrician 128:25-6, 41-2, 53 Ja 9-23 '42
Production and export; advantages possessed by the large group. G. F. Sills. Elec R (Lond) 130:723-5 Je 5 '42
Progress in 1941. il Elec R (Lond) 130:131-5 Ja 30 '42
Restriction of appliance manufacture; disposal of existing stocks. Elec R (Lond) 131:208 Ag 14 '42
Wartime estimating. A. Unsworth. Elec R (Lond) 131:122-3 Jl 24 '42
What about distribution? Elec R (Lond) 131:345-6 S 11 '42

Persia

Persian electrical imports, 1940-1941 compared with 1939-1940. Elec R (Lond) 131:288 Ag 28 '42

Peru

Imports of electrical goods by Peru in 1940. For Comm W 8:23-4 Jl 11 '42
Imports of Peru; 1939 and 1940 compared. Elec R (Lond) 130:514-15 Ap 17 '42
Prospects in Peru. Elec R (Lond) 129:507-8 N 7 '41

St Louis

St Louis surveys repair agencies. Elec W 118:498 Ag 8 '42

Trinidad

Trinidad's imports increase; table giving item, and country of origin, 1940. For Comm W 8:20 Jl 25 '42
Trinidad's overseas trade; 1940 compared with 1939. Elec R (Lond) 130:573 My 1 '42

United States

Appliance problems of today and tomorrow. B. W. Clark. Edison Elec Inst Bul 10:230-2 Je '42
Day after tomorrow; interview with C. E. Wilson. A. P. Peck. Sci Am 167:203-4 N '42
Manufacturers all-out; production plans for 1942. G. C. Thomas, jr. Elec W 117:296-7 Ja 24 '42
Manufacturing statistics, 1941. Elec W 117:286-7 Ja 24 '42
Power for defense; manufacturer's view. R. Kelly. il Elec Eng 61:22-4 Ja '42
Role of electrical manufacturers in the war effort. C. H. Lang. Edison Elec Inst Bul 10:219-22+ Je '42
War orders affect the industry. Elec West 88:51 My '42

Uruguay

Electrical machinery and equipment; Uruguay's market. For Comm W 8:18-19 S 19 '42

Western states

Dealers tied-in to factory service program; western service center established in San Francisco. il Elec West 88:72-3 Je '42
Wartime mart seeks answers; topics discussed at the Western merchandise mart's fall market, San Francisco, Aug. 3-8. Elec West 89:59-60 S '42
What are dealers doing about war? il Elec West 88:64-5 Ap '42
Where do we go from here? western appliance industry. il Elec West 88:62-72, 77-81 F '42

ELECTRIC arc

Arc cathodes of low current density at high amperage. J. Slepian, W. E. Berkey and M. J. Kofoid. il diags J Ap Phys 13:113-16 F '42
Cathode drop of an arc. G. H. Fett. bibliog diag Welding J 21:sup27-9 Ja '42; Same cond. J Ap Phys 12:436-8 My '41
Electrical contact problems. il Engineer 174:146-9 Ag 21 '42
Electrical ignition of the spectrographic arc. F. G. Brockman and F. P. Hockgesang. diags Ind & Eng Chem Anal ed 14:796 O 15 '42
Electronic control for carbon arcs used in motion picture theater projection service. W. Flaherty. il diag Electronics 15:65-6+ Mr '42
Fusion of top soil by an electric arc. K. Ver Steeg. Science 96:180 Ag 21 '42
Mercury arc cathode. C. G. Smith. bibliog diags Phys R 62:48-54 Jl 1 '42
Multiple electrode high voltage arc for spectrographic analysis. W. D. Owsley and R. C. McReynolds. il diag R Sci Instr 13:342-5 Ag '42
New multiple high-speed air circuit breaker for mercury-arc-rectifier anode circuits and its relation to the arc-back problem. J. W. Seaman and L. W. Morton. bibliog il diags Elec Eng 61:Trans 788-96 N '42
Radiation from carbon arcs. H. G. MacPherson. il diag J Ap Phys 13:97-102 F '42
Time effects and arc intensities. H. Hemmendinger. diags Opt Soc Am J 32:149-53 Mr '42

See also
Electric lamps, Arc
Electric lamps, Mercury vapor
Electric welding, Arc

ELECTRIC associations

Societies and associations connected with the electric industries; work during 1941. Electrician 128:65-8 Ja 30 '42

ELECTRIC batteries

All-America package competition; award to Burgess battery co.; theft-proof vendor. il Mod Packaging 15:226-7 Ap '42
Battery substitutions for portables. G. Garvin. il Radio N 28:28-9+ Jl '42
Determination of the transference numbers of potassium iodide from the electromotive force of iodide-iodine gravity cells. S. W. Grinnell and F. O. Koenig. bibliog diags Am Chem Soc J 64:682-6 Mr '42
Dry batteries, how to make them. G. B. Hughes. 160p 6s Hutchinson's scientific & technical publications, London '40
Elimination of liquid junction potentials; the conditions of extrapolation. B. B. Owen and S. R. Brinkley, jr. bibliog Am Chem Soc J 64:2071-5 S '42

ELECTRIC batteries—*Continued*

Relation of electromotive force to the concentration of deuterium oxide in saturated standard cells. L. H. Brickwedde and G. W. Vinal. bibliog J Research Nat Bur Stand 27: 479-89 D '41

See also

Electrolytic cells
Photoelectric cells
Radio receiving apparatus—Power supply
Storage batteries

Standards

American standard specification for dry cells and batteries. diags U S Nat Bur Stand Circ C 435:1-15 pa 10c Supt. of doc. '42

New American standard includes batteries for hearing-aids. G. W. Vinal. Ind Stand 13: 91-3 Ap '42

ELECTRIC boat company

Another look. Mag of Wall St 69:169 N 15 '41

Favored stocks from $10 to $25. Mag of Wall St Manual p13 Ap '42

Thumbnail stock appraisal. Mag of Wall St 69:322 D 27 '41

ELECTRIC bond and share company

Directors reelected; minority battles vainly for new board and $10,000 salary limit. Comm & Fin Chr 156:1415 O 19 '42

Electric Bond and Share plans further preferred retirement. Pub Util 30:501-2 O 8 '42

Files new divestment plan with SEC. Comm & Fin Chr 156:865 S 7 '42

Permitted to buy own stock. Comm & Fin Chr 155:918 Mr 2 '42

Proxy contest raises basic issues. O. Ely. Pub Util 30:565-6 O 22 '42

Re-elect Bond & Share board in stormy session. Elec W News ed 118:1355 O 24 '42

Stockholder denied intervention in stock plan. Comm & Fin Chr 155:2006 My 25 '42

Suit reversed. Comm & Fin Chr 155:2456 Je 29 '42

Two Electric Bond & Share units ordered dissolved. Elec W News ed 118:687 Ag 29 '42

Units ordered dissolved; SEC moves against American power and light co. and the Electric power & light corp. Comm & Fin Chr 156:780 Ag 31 '42

Will exchange preferred stock for American gas & electric co. common holdings. Comm & Fin Chr 156:957 S 14 '42

ELECTRIC bond testers

Shallcross electric bond testers. il R Sci Instr 12:615 D '41

ELECTRIC brazing. See Brazing

ELECTRIC busbars. See Busbars

ELECTRIC buses

See also

Trolley buses

ELECTRIC cable reels

Cable reel brake prevents kinking. J. M. Dyer. il diag Elec W 118:958 S 19 '42

Line wire removed by demountable reel. il Elec W 117:336 Ja 24 '42

ELECTRIC cables

Air raid damage to power cables. R. J. Wiseman. Elec W 117:833 Mr 7 '42

Cable alternatives. Electrician 128:86-7 F 6 '42

Cable loading for war industry loads. E. W. Oesterreich. Edison Elec Inst Bul 10:45-7 F '42

Cable materials and developments. S. W. Melsom. Inst E E J 89 pt 1:56-8 Ja '42; Excerpts. Electrician 127:297 N 21 '41; Abstract. Chem Age (Lond) 45:271 N 22 '41

Compression and oil-filled cable versus gas-filled cable. M. Hochstadter. Elec Eng 61: 586 N '42

Detroit pioneers with 120-kv. pipe-type gas-filled cable. G. B. McCabe and F. M. Hull. il Elec W 117:2214-16; 118:278-80 Je 27, Jl 25 '42

Electric wiring and the war effort. O. K. Coleman. Edison Elec Inst Bul 9:497-8 D '41

Flexibility features underground use of non-metallic cables. H. H. Minor and E. S. Dreischmeyer. il Elec W 117:1174-6 Ap 4 '42

Frictional phenomena; applications of liquid viscosity to electrical insulating liquids, particularly in high voltage cables. A. Gemant. bibliog diags J Ap Phys 13:290-9 My '42

Gas-filled cable for power distribution; abstracts. V. A. Sheals. Power 85:997c+ Mid-D '41; Electrician 128:110 F 13 '42

Gas-filled cable meets urgent load situation in Hartford area. il diags Elec W 116:2042-4 D 27 '41

Gas-pressure cable for Detroit Edison. il Elec W News ed 117:570 F 14 '42

Government indicts cable concerns on price plot; Department of justice action charging conspiracy on bids for navy cable. Elec W News ed 118:688 Ag 29 '42

High-voltage distribution saves copper. il diags Factory Management 100:92, 94 Mr '42

Higher circuit capacity, same weight of copper; modern low-reactance cable; Louisville cement co. G. L. Hoddy and T. McDonald. il Elec W 118:1092-3 O 3 '42

Hot-wire device removes insulation. il Elec W 118:475 Ag 8 '42

How to conserve vital materials in industrial distribution systems. R. B. McKinley and L. D. Madsen. il diags Power Pl Eng 46:58-61 Ap '42

Low-, medium-, and high-pressure gas-filled cable. G. B. Shanklin. diags Elec Eng 61:Trans 719-26 O '42

Metropolitan-Vickers insulation-stripping machine for wires and cables. il Engineering 153:517 Je 26 '42

Navy cable sales indictment. India Rubber W 107:67 O '42

New high gas pressure cable is developed in England; abstract. R. J. Wiseman. Franklin Inst J 234:307-8 S '42

New underground distribution utilizes non-leaded cables. H. H. Minor and E. S. Dreischmeyer. il Elec West 88:48-50 Ap '42

Non-metallic cable supplies machines. diag Elec W 117:334 Ja 24 '42

Salvages rubber with bending-roll machine. il Power 86:809-10 N '42

Underground distribution systems in wartime. L. R. Gaty. bibliog Elec Eng 61:Trans 107-12 Mr '42; Abstract. Power Pl Eng 46:73 My '42

War maintenance; electrical conductors. il Coal Age 47:78-80 O '42

See also

Electric conductors
Electric conduits
Electric lines
Electric wire
Insulation (electric)
Telephone cables

also General cable corporation

Coaxial cable

See Radio lines

Cutting

How to cut armored cable; instructions illustrated. Power 85:918 D '41

Failure

Short-circuits in cables due to bomb damage. E. A. Beavis. il diag Elec R (Lond) 130: 327-9 Mr 13 '42

Installation

Angle-frame bends cut from rings. A. Wanty. diags Elec W 118:1133 O 3 '42

Bridge and reservoir serve 66-kv. cable. F. W. Harvey. il Elec W 117:1524 My 2 '42

Cable damage; prevention of stretching. diag Power 86:118-19 F '42

Cables by-passed around a landslide; relaid on surface in wooden casing. il Elec W 118: 617 Ag 22 '42

Detroit pioneers with 120-kv. pipe-type gas-filled cable. G. B. McCabe and F. M. Hull. il Elec W 118:278-80 Jl 25 '42

Duct splicing simplified. W. B. Elmer. il diags Elec W 117:91 Ja 10 '42

120-kv compression-type cable. I. T. Faucett and others. il diags Elec Eng 61:Trans 652-7 S '42

ELECTRIC cables—Installation—*Continued*

120-kv high-pressure gas-filled cable; theory, manufacture, and testing. I. T. Faucett and others. bibliog il diags Elec Eng 61:Trans 658-65 S '42

Precautions necessary in the use of electric cables underground. G. F. Newman. Coal Age 47:62-3 Jl '42

Selecting rope for cable pulling. F. L. Spangler. Elec W 117:1044 Mr 21 '42

Stripping basket weave armored cable. A. J. Domini. diag Marine Eng 47:110 F '42

Suspending five feeders in a 1,000-ft. borehole near Portage, Pa. E. P. Jaggard. il Coal Age 47:60-1 Jl '42

Templates guide cable training. diags Elec W 116:1904 D 13 '41

See also

Electric conduits

Joints

Boxes for emergency cable joints. R. J. Radcliffe. il diags Elec W 118:1470+ O 31 '42

Emergency cable joint reinforcement. diags Elec W 117:1845 My 30 '42

Joint dipped in solder bath, saves solder. Elec W 118:306 Jl 25 '42

Saving wiping solder in cable joint making. diags Elec W 117:1866 My 30 '42

Solders with less tin for wipes and joints. il diag Elec W 118:602-4 Ag 22 '42

Unusual cable joint, useful for air-raid repairs. il Elec R (Lond) 130:371 Mr 20 '42; Abstract. Elec W 118:318 Jl 25 '42

Victory joint saves tin in wiping solder. J. T. Lowe. il diags Elec W 117:2262 Je 27 '42

Manufacture

Cable winder speeds taping job. il Elec W 117:1536 My 2 '42

Paper-insulated power cables. E. A. Beavis. diags Electrician 127:277-8, 293-4 N 14-21 '41

Protection

Cable coating cuts sheath corrosion; addition of sodium silicate and sodium dichromate to asphalt; abstract. W. D. Sanderson. Elec W 116:1740 N 29 '41

Cable materials and developments. S. W. Melsom. Inst E E J 89 pt 1:56-60 Ja '42; Abstract. Elec R (Lond) 129:540 N 14 '41

Cables balanced; discarded transformer cores used to balance reactance on Grand Coulee emergency generator leads. F. R. Schleif. il Elec West 88:40 Mr '42

Dielectric strength and life of impregnated-paper insulation; further experiments on influence of the density of the paper. J. B. Whitehead. Elec Eng 61:Trans 618-22 Ag '42

Drainage couplings obviate manhole. diag Elec W 117:1378-9 Ap 18 '42

Duct flooding cools cable hot spots. R. L. Dodd. Elec W 118:1284 O 17 '42

Effects of pole end bonding in lightning arrester protected cable installations. N. B. Walsh. il diags Edison Elec Inst Bul 10: 53-6+ F '42

Electric cable insulation from synthetic rubbers. S. E. McCrary and others. India Rubber W 107:157-62+ N '42

Guayule rubbers in wire and cable insulation. R. E. Morris and others. Rubber Age 51:479-81 S '42

How to seal duct openings. diags Elec W 118:310 Jl 25 '42

Protecting cables from incendiaries. il Elec R (Lond) 129:412 O 17 '41

War substitutions for wire and cable insulations. C. A. Finkel. Elec W 118:613-16 Ag 22 '42

Zellite envelope protects control cables. diag Elec W 116:1908 D 13 '41

See also

Electric cables—Sheathing

Rating

Recommended war emergency relaxations of the regulations for the electrical equipment of buildings. Inst E E J 89 pt 1:333-4 Ag '42

Repair

After a raid; rapid repairs and restoration of supply. il Elec R (Lond) 130:261-4 F 27 '42

Boxes for emergency cable joints. R. J. Radcliffe. il diags Elec W 118:1470+ O 31 '42

Cable reconditioning; new method of splicing developed by the post office. il Elec R (Lond) 131:331-2 S 11 '42

Cable-repair method; silver-alloy brazing. il Gen Elec R 45:248 Ap '42

Emergency repair cable for boundary lights explained. diag Civil Aero J 3:117 My 15 '42

Field cable repair conserves copper. Elec W 117:1865 My 30 '42

Helpful hints for repairing trailing cables. J. H. Blair. diags Coal Age 47:73 Ag '42

How to repair and splice rubber-jacketed cables. diags Elec W 118:1304 O 17 '42

Restoring supply; measures taken after air-raid damage. il Elec R (Lond) 129:527-31 N 14 '41

Splice damaged cable to conserve copper; street light standards. P. A. Burvant. diag Elec W 117:2104 Je 13 '42

Sheathing

Calcium in calcium-lead alloys. E. E. Schumacher and G. M. Bouton. il diag Metals & Alloys 14:865-7 D '41; Same. Bell System Tech J 20:434-8 O '41

Factors influencing cable emissivity. W. B. Elmer. Elec W 116:1603-4 N 15 '41

Lead cable corrosion; causes and remedies. A. S. Brookes. Elec W 117:106 Ja 10 '42

Non-metallic cable sheathing. Metals & Alloys 16:166+ Jl '42

Non-metallic sheathed cable wiring; under code amendment nos. 43 and 44. E. S. McConnell. diags Edison Elec Inst Bul 10: 337-9 S '42

Specifications

WPB order on rubber insulation; emergency specifications for rubber covered wire and cable and its substitutes. Elec West 89:66 O '42

WPB specifications for wire and cable issued. Elec W 117:1189 Ap 4 '42

Standards

Report of A.S.T.M. committee B-1; diameters, areas, and weights of concentric-lay-stranded copper cables; table. Am Soc T M Proc 41:162 '41

Tables, calculations, etc.

Short-circuit currents; co-ordinating cable size with system characteristics. E. A. Beavis. Elec R (Lond) 130:363-6 Mr 20 '42

Temperature

Cable loading for war industry loads. E. W. Oesterreich. Edison Elec Inst Bul 10:45-6 F '42

Cable sizes; allowing for the worst possible conditions. E. A. Beavis. Elec R (Lond) 131:76 Jl 17 '42

Factors influencing cable emissivity. W. B. Elmer. Elec W 116:1603-4 N 15 '41

Fault conditions; relationship between cables and switchgear. Elec R (Lond) 130:719-21 Je 5 '42

Guides thermocouples into occupied ducts. A. Bodicky. il diags Elec W 118:1303 O 17 '42

Short-circuit currents; co-ordinating cable size with system characteristics. E. A. Beavis. Elec R (Lond) 130:363-6 Mr 20 '42

Terminals

Load transfer made under oil; transition from underground to overhead distribution made through oil-filled terminal boxes. il Elec W 118:805 S 5 '42

Testing

Cable testing on site; Birmingham's mobile equipment. il Elec R (Lond) 129:709 D 19 '41

Charging locates open cable faults. F. E. Reeves. Elec W 118:785-6 S 5 '42

ELECTRIC cables—Testing—*Continued*

Evaluate ability of 24-kv. cable to stand emergency overload. G. B. McCabe and J. Sticher. Elec W 118:1442-5 O 31 '42

How can short circuits in underground cables be located? C. O. von Dannenberg. diag Power Pl Eng 46:100-1 Jl '42

Impulse electric strength of high-voltage cables. R. Davis. bibliog il Inst E E J 89 pt 2:52-9 F '42

120-kv high-pressure gas-filled cable; theory, manufacture, and testing. I. T. Faucett and others. bibliog il diags Elec Eng 61: Trans 658-65 S '42

Simulating tidal rise in cable test. E. A. Rochau. il diag Elec W 118:630+ Ag 22 '42

Systematized surveys reveal network load conditions; Oklahoma gas & electric company. R. W. Coursey. diags Elec W 116: 1712-14+ N 29 '41

Use capacitance discharge to locate cable faults; method uses noise of discharge as guide. W. D. Seal. il diag Elec W 117:1006-7+ Mr 21 '42

ELECTRIC capacitors. See Condensers (electricity)

ELECTRIC capacity

Capacitance effects in high ohmic resistances and the advantages of the radial spiral; abstract. A. Klemt. Wireless Eng 19:218-19 My '42

ELECTRIC cells. See Electric batteries; Electrolytic cells; Photoelectric cells; Storage batteries

ELECTRIC charges

Electrical charges produced by flowing gasoline. S. S. Mackeown and V. Wouk. il diags Ind & Eng Chem 34:659-64 Je '42

Stability properties of hydrophobic colloidal solutions. S. Levine and G. P. Dube. bibliog J Phys Chem 46:239-80 F '42

See also

Space charge

ELECTRIC circuit breakers

Aircraft circuit breaker. il Mod Plastics 19:44 Jl '42

Analysis of the application of high-speed reclosing breakers to transmission systems. S. B. Crary, L. F. Kennedy and C. A. Woodrow. bibliog diags Gen Elec R 45:173-85 Mr '42; Same. Elec Eng 61:Trans 339-48 Je '42

Anode circuit breaker for mercury rectifier. T. R. Rhea. il diag Elec W 117:1688 My 16 '42

Breaker and switch contacts resurfaced with silver alloy. L. M. Limpus. il Elec W 118: 1271 O 17 '42

Breakers have got to break. W. A. Holland. il diags Factory Management 99:83-5 D '41; 100:119-20 Ja '42

Circuit breaker designed to foil sabotage of power lines. J. M. Wallace. il Sci Am 167: 223 N '42

Circuit-controlling devices on power supply systems. C. W. Marshall. bibliog il diags Inst E E J 89 pt 1:175-90 Ap '42

Co-ordinating electric pipe-line pumping equipment. W. G. Taylor. il Pet Eng 13: 104+ Mr '42

Correct electrical protection makes interchange safe. diags Power 86:630-2 S '42

Electrical contact problems. il Engineer 174: 146-9 Ag 21 '42

Electrical developments of 1941; switchgear. G. Bartlett. il Gen Elec R 45:15-17 Ja '42

Factors contributing to improving electric service by means of high-speed switching and utilization of stored energy. J. T. Logan and J. H. Miles. il Elec Eng 60: Trans 1012-16 D '41

Fuses vs. thermal circuit breakers for low-voltage motor starters. W. G. Taylor. il Oil & Gas J 41:56, 58-9 Ag 27 '42

Grading protective devices. G. V. Harrap. Elec R (Lond) 131:421-4 O 2 '42

High-rupturing-capacity devices up to 2kV. J. R. Blandford. Electrician 128:224-5 Mr 13 '42

High-speed single-pole reclosing. J. J. Trainor, J. E. Hobson and H. N. Muller, jr. bibliog il diags map Elec Eng 61:Trans 81-7 F '42

High-voltage, high-rupturing-capacity cartridge fuse and its effect on protection technique. K. Dannenberg and W. J. John. Electrician 128:363-4 Ap 17 '42; Discussion. 128:400-1 Ap 24 '42

How to get the most out of your air circuit breakers. H. M. Wilcox. il Factory Management 100:100-2 F '42

Increasing oil circuit breaker lead capacity. V. D. Hollis. diags Elec W 118:1479 O 31 '42

Interconnection puts more load on circuit breakers. diags Power 86:633-4 S '42

Low oil-content metal-clad switchgear. il diag Engineering 153:510, 514-15 Je 26 '42

Management of protective gear on power supply systems. W. Casson and F. H. Birch. il diags Inst E E J 89 pt 2:317-41; Discussion. 341-54 Ag '42

Oil circuit-breaker maintenance. A. E. Norris. il Elec R (Lond) 131:361-3 S 18 '42

Performance of ground-relayed distribution circuits during faults to ground; data useful in joint use of poles by power and telephone facilities. C. L. Gilkeson, P. A. Jeanne and J. C. Davenport, jr. il Elec Eng 61:Trans 40-8 Ja '42

Practical calculation of circuit transient recovery voltages. J. A. Adams and others. bibliog diags Elec Eng 61:Trans 771-9 N '42

Preformed d.c. power; resistance in generator field for picking up heavy cross-the-line loads. J. M. Rairigh. il diag Coal Age 47: 41-3 Ja '42

Progress in engineering knowledge during 1941: circuit breakers and fuses. P. L. Alger. bibliog Gen Elec R 45:97-9 F '42

Relays and breakers for high-speed single-pole tripping and reclosing. S. L. Goldsborough and A. W. Hill. diags Elec Eng 61:Trans 77-81 F '42

Secondary breakers give adequate service. Elec W 117:2260+ Je 27 '42

Switchgear progress. R. T. Lythall. Elec R (Lond) 130:689-91 My 29 '42

System short circuits; calculation of the currents when applying interrupting devices and relays. C. A. Woodrow. Gen Elec R 45: 357-9 Je '42

Throwover and reclosure in simplified combination. A. E. Anderson. diags Elec W 117: 1503-4 My 2 '42

Time relay extends breaker life. diag Elec W 118:326 Jl 25 '42

Transformer protection timed for secondary faults. B. O. Watkins. Elec W 116:1882-4 D 13 '41

Transient recovery-voltage characteristics of electric-power systems. H. P. St Clair and J. A. Adams. Elec Eng 61:Trans 666-9 S '42

Use of protective multiple earthing and earth-leakage circuit-breakers in rural areas (second report). H. G. Taylor. diags Inst E E J 88 pt 2:415-22 O '41

War maintenance; controls and breakers. il Coal Age 47:108-10 O '42

See also

Electric fuses
Electric switches

Control

Compressed-air operating mechanism for oil circuit breakers. R. C. Cunningham and A. W. Hill. il diag Elec Eng 61:Trans 695-8 S '42; Excerpts. Machine Design 14:144, 160 N '42

Novel reclosing relay. P. O. Bobo. il diags Elec Eng 60:Trans 1041-5 D '41

Pneumatic mechanism for circuit breaker. F. B. Johnson. diag Elec W 116:1604+ N 15 '41

Design

Automatic circuit breaker reclosing. A. C. Schwager. il diag Elec West 88:95-8 Je '42

Automatically reclosing breaker for co-ordinating distribution systems. H. L. Rawlins and J. M. Wallace. il diag Elec Eng 60:Trans 1021-4 D '41

ELECTRIC circuit breakers—Design—*Cont.*

Breaker reduces arc back problem. J. W. Seaman and L. W. Morton. il Blast F & Steel Pl 30:1052-3 S '42

Fast circuit breaker. D. I. Bohn and O. Jensen. il diags Elec Eng 61:Trans 165-8 Mr '42

Simplicity marks design of air-blast circuit breakers. H. W. Haberl and O. Jensen. il diags Power 86:24-6 Ja '42

Installation

Breaker cubicles installed quickly. C. Harder. il Elec W 118:642 Ag 22 '42

Oilless

Air-blast station circuit breaker designs. A. C. Boisseau. il diag Power Pl Eng 46:65-6 O '42

Compressed air supply for breakers. R. C. Cunningham. diag Elec W 117:505-6 F 7 '42

Field tests and performance of a high-speed 138-kv air-blast circuit breaker. P. Sporn and H. E. Strang. bibliog il diags Elec Eng 61:Trans 1-6 Ja '42

Field tests on high-capacity air-blast station-type circuit breakers. H. E. Strang and W. F. Skeats. il diags Elec Eng 61: Trans 100-4 F '42

Field tests on high-capacity station circuit breakers. H. D. Braley. il diags Elec Eng 61:Trans 31-5 Ja '42

General Electric air circuit breaker. Steel 111:115 S 7 '42

New multiple high-speed air circuit breaker for mercury-arc-rectifier anode circuits and its relation to the arc-back problem. J. W. Seaman and L. W. Morton. bibliog il diags Elec Eng 61:Trans 788-96 N '42

99 and 44/100% dry air for circuit breakers. C. Thumim. il diags Power 86:240-2 Ap '42

Simplicity marks design of air-blast circuit breakers. H. W. Haberl and O. Jensen. il diags Power 86:24-6 Ja '42

2,500,000-kva compressed-air powerhouse breaker. L. R. Ludwig, H. M. Wilcox and B. P. Baker. il diags Elec Eng 61:Trans 235-41 My '42

Protection

Cover protects breaker latch. il diag Elec W 117:1548 My 2 '42

Repair

Breaker maintenance based on operations. Elec W 118:1143 O 3 '42

Breaker worm wheels rebuilt by welding. il diags Elec W 117:2096 Je 13 '42

Welded oil circuit breaker tanks reveal advantages. il Elec W 118:1300 O 17 '42

Testing

Analyzer guides adjustment of ultra-high speed breakers. E. L. Schlottere, R. M. Seitz and S. Goldsmith. Elec W 117:652-3 F 21 '42

Bushing test set aids oil circuit breaker checks. E. J. Mommo. il Elec W 116:2057 D 27 '41

Circuit-breaker analyzer diagnoses hidden maladies. E. A. Crellin. il diag Elec W 116:1708-9 N 29 '41

Contact tester for oil breaker. diag Elec W 118:490+ Ag 8 '42

Coordinated tests, breaker maintenance. Elec W 118:1294 O 17 '42

Field tests and performance of a high-speed 138-kv air-blast circuit breaker. P. Sporn and H. E. Strang. bibliog il diags Elec Eng 61:Trans 1-6 Ja '42

Field tests on high-capacity air-blast station-type circuit breakers. H. E. Strang and W. F. Skeats. il diags Elec Eng 61:Trans 100-4 F '42

Field tests on high-capacity station circuit breakers. H. D. Braley. il diags Elec Eng 61:Trans 31-5 Ja '42

High-capacity circuit-breaker testing station. J. B. MacNeill and W. B. Batten. bibliog il diag plan Elec Eng 61:Trans 49-53 F '42

High power testing pushed to new limits; high power laboratory at the Westinghouse East Pittsburgh works. W. B. Batten. il Power Pl Eng 46:79-81 Mr '42; Same. Blast F & Steel Pl 30:255-6 F '42

Synthetic testing of circuit-breakers. K. J. R. Wilkinson and J. R. Mortlock. bibliog diags Inst E E J 89 pt 2:137-42 Ap '42

Test breakers under operating conditions; Pennsylvania power & light co. Elec W News ed 117:7 Ja 3 '42

Testing high-voltage circuit breakers. C. J. O. Garrard. diags Engineer 173:511-12, 530-1 Je 19-26 '42

Testing with lightning bolts; Westinghouse laboratories. A. P. Peck. il Sci Am 166:171-3 Ap '42

Tests and analysis of circuit-breaker performance when switching large capacitor banks. T. W. Schroeder, E. W. Boehne and J. W. Butler. il diags Elec Eng 61:Trans 821-31 N '42

Transient recovery voltages and circuit-breaker performance. R. C. Van Sickle. bibliog il diags Elec Eng 61:Trans 804-12 N '42

Tripping

Fault bus-differential scheme protects Cahokia bus. G. W. Gerell. diags Elec W 117:1335-6 Ap 18 '42

Fuse has trip-pin to open breaker. diag Elec W 117:309-10 Ja 24 '42

Two direct-trip coils on four-wire system. diag Elec W 118:487 Ag 8 '42

ELECTRIC circuits

A-c calculation charts. R. Lorenzen. 19p, 148p bibliog(p10) $7.50 John F. Rider publisher, 404 4th av, New York '42

Capacitors; effect on circuit performance when connected in series or in shunt. J. W. Butler. bibliog diags Gen Elec R 45:577-83 O '42

Development of time bases; principles of known circuits. O. S. Puckle. Electrician 128:127-8 F 13 '42

Direct-current control circuits; data sheets. O. G. Rutemiller. diags Factory Management 99:102, 104 N; 100, 102 D '41

Draft-fan power supply circuits simplified. J. S. Brown. diags Elec W 117:1666-7 My 16 '42

Effect of initial conditions on subharmonic currents in a nonlinear series circuit. S. J. Angello. diags Elec Eng 61:Trans 625-7 S '42; Discussion. 61:635-6 D '42

Electrical circuits and machinery. v. 2, Alternating currents. F. W. Hehre and G. T. Harness. 635p $6 Wiley '42

Equivalent circuit of the salient-pole synchronous machine. G. Kron. diags Gen Elec R 44:679-83 D '41

Equivalent circuits for the hunting of electrical machinery. G. Kron. bibliog diags Elec Eng 61:Trans 290-6 My '42

How to make voltage drop calculations for 60-cycle circuits. charts Elec W 117:2095 Je 13 '42

Ignitor excitation circuits and misfire indication circuits. A. H. Mittag and A. Schmidt, jr. il diags Elec Eng 61:Trans 574-7 Ag '42

Laplacian transform analysis of circuits with linear lumped parameters. J. Millman. diags Elec Eng 61:197-205 Ap '42

Nomogram computes parallel circuits. B. E. Ellsworth. Elec W 116:1754 N 29 '41

1-phase from 3-phase systems. G. W. Stubbings. Electrician 129:223-4 Ag 28 '42

Operational analysis of non-linear dynamical systems. L. A. Pipes. J Ap Phys 13:117-28 F '42

Protection of pilot-wire circuits. E. L. Harder and M. A. Bostwick. diags Elec Eng 61:Trans 645-52 S '42

Rectifier terminology and circuit analysis. C. H. Willis and C. C. Herskind. bibliog Elec Eng 61:Trans 496-9 Jl '42

Stabilized ionization gauge circuit with vacuum tube voltmeter. J. Rainwater. diags R Sci Instr 13:118-22 Mr '42

Star-mesh transformations; their relation to three-phase unbalanced power. G. F. Freeman. diags Electrician 128:36 Ja 16 '42

ELECTRIC circuits—*Continued*

Three-wire supply from a rectifier. L. W. Morton. diag Elec W 117:1551-3 My 2 '42

Vector potential and inductance of a circuit comprising linear conductors of different permeability. T. J. Higgins. diags J Ap Phys 13:390-8 Je '42

See also

Electric conductors
Electric distribution
Electric lines
Electric rectifiers
Electric transmission
Impedance
Radio circuits
Short circuits

Mechanical analogies

Electromechanical transducers and wave filters. W. P. Mason. 333p $5 Van Nostrand '42

ELECTRIC clocks. See Clocks, Electric

ELECTRIC codes

I.E.E. regulations; wartime relaxations. Elec R (Lond) 131:56 Jl 10 '42

New Portland code. Elec West 88:56-7 Ja '42

Wiring installations; war emergency British standard code. Electrician 129:137-8 Ag 7 '42; Elec R (Lond) 131:174-5 Ag 7 '42

Wiring rules relaxations. Electrician 129:31-2 Jl 10 '42

See also

Electric wiring—Safety measures
National electrical code
National electrical safety code

ELECTRIC communication

Coupling-free bus-bar circuit for alternating-current sources in communication technique; abstract. U. John. Wireless Eng 19:419-20 S '42

Electrical fundamentals of communication. A. L. Albert. 554p $3.50 McGraw-Hill '42

See also

Radio communication
Telegraph
Telephone
Television

History

History of electrical resonance. J. Blanchard. diags Bell System Tech J 20:415-33 bibliog(p431-3) O '41

Joseph Henry, pioneer in space communication. W. F. Magie. il Inst Radio Eng Proc 30:261-6 Je '42

Study and teaching

Electronics and communication courses in American colleges. Electronics 15:84+ S '42

ELECTRIC commutators. See Commutators

ELECTRIC condensers. See Condensers (electricity)

ELECTRIC conduction

Electrical conduction in the glass insulation of resistance thermometers. H. J. Hoge. bibliog diags J Research Nat Bur Stand 28:489-98 Ap '42

ELECTRIC conductivity

Conductivity meters give carry-over data. Elec W 118:316-17 Jl 25 '42

Conductometric assay of inorganic salt in the presence of wetting agents. J. H. Percy and C. J. Arrowsmith. bibliog Ind & Eng Chem Anal ed 14:151-3 F 15 '42

Depth dependence of earth conductivity upon surface potential data. W. G. Keck and W. F. Colby. bibliog J Ap Phys 13:179-88 Mr '42

Dielectric constant, power factor, and conductivity of the system rubber-calcium carbonate. A. H. Scott and A. T. McPherson. bibliog diags J Research Nat Bur Stand 28:279-96 Mr '42

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

Electrical conductivity of graphite films. Electrician 128:617 Je 19 '42

Electrical conductivity of titanium dioxide. M. D. Earle. diag Phys R 61:56-62 Ja 1 '42

Electrical conductivity of zinc oxide. P. H. Miller, jr. bibliog diag Phys R 60:890-5 D 15 '41

Electrical properties of conductive rubber. diags Rubber Age 50:203-5 D '41

Electrical properties of solids. R. M. Fuoss. J Chem Educ 19:190-3, 231-5 Ap-My '42

Frictional phenomena; applications of liquid viscosity to electrical insulating liquids, particularly in high voltage cables. A. Gemant. bibliog diags J Ap Phys 13:290-9 My '42

Hall effect and conductivity of cuprous oxide. S. J. Angello. bibliog diags Phys R 62:371-7 O 1 '42

Photographic reciprocity-law failure and the ionic conductivity of the silver halides. J. H. Webb. bibliog Opt Soc Am J 32:299-303 My '42

Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity, and tensile properties. R. H. Harrington and T. C. Jester. Am Soc for Metals Trans 30:132-4 Mr '42

Rubber resistivity and conductivity. Elec R (Lond) 129:401 O 17 '41

Symposium on problems and practice in determining steam purity by conductivity methods. R. E. Hall and others. il diags Am Soc T M Proc 41:1261-1336 '41

Theory of absolute reaction rates and the conductivity of hydrocarbons at high field strengths. N. Davidson. Phys R 61:721 Je 1 '42

See also

Dielectric constants
Dielectrics
Electric conductors
Electric resistance
Electrolytes—Conductivity

ELECTRIC conductors

Application of apparatus and conductors under various ambient-temperature conditions. R. E. Hellmund and P. H. McAuley. diags Elec Eng 61:Trans 553-8 Ag '42

Attenuated superconductors; for measuring infra-red radiation. D. H. Andrews and others. bibliog il diags R Sci Instr 13:281-92 Jl '42

Bundled conductors substitute for cable. il Elec W 117:528 F 7 '42

Conductive area of steel rails. J. L. Skeehan. Elec W 118:948-9 S 19 '42

Evaluate steel pipe as a.c. conductor; substitute for copper in high-voltage substations. S. C. Killian. diags Elec W 117:1349-50 Ap 18 '42

Formulas for calculating short-circuit stresses for bus supports for rectangular tubular conductors. T. J. Higgins. bibliog Elec Eng 61:Trans 578-80 Ag '42

Formulas for the inductance of rectangular tubular conductors. T. J. Higgins. bibliog diags Elec Eng 60:Trans 1046-50 D '41

Fusing currents. W. T. Maccall. Electrician 129:218-19 Ag 28 '42

Galvanized steel as a power conductor. F. M. Crapo. il Elec W 118:920-3 S 19 '42

How to determine primary drop copper and ACSR; charts. F. C. Rand. Elec W 118:1293 O 17 '42

Influence of towers and conductor sag on transmission-line shielding. R. W. Sorensen and R. C. McMaster. il diags Elec Eng 61:Trans 159-65 Mr '42

Lightning protection of buildings. E. H. W. Banner. Engineer 174:66-7 Jl 24 '42

More data on steel pipe conductors. Elec W 117:2237-8 Je 27 '42

New E.E.I. standard for splicing sleeves. diags Elec W 118:802 S 5 '42

Pick wire that fits the job. G. M. Van Lear. il Factory Management 100:118-20 S '42

Propagation of electromagnetic waves in parabolic pipes. R. D. Spence and C. P. Wells. Phys R 62:58-62 Jl 1 '42

Reactance and skin effect of concentric tubular conductors. H. B. Dwight. bibliog Elec Eng 61:Trans 513-18 Jl '42

Silver as a substitute for copper in electric wiring; abstract. R. E. McConnell. Science 94:sup10+ N 7 '41

Skin effect formulas. J. R. Whinnery. Electronics 15:44-8 F '42

Solid equivalent of a stranded conductor. Power Pl Eng 46:93-4 Ag '42

Studies in superconductivity; evaporated lead films. W. F. Brucksch, jr. and W. T. Ziegler. bibliog Phys R 62:348-53 O 1 '42

ELECTRIC conductors—*Continued*

Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

Vector potential and inductance of a circuit comprising linear conductors of different permeability. T. J. Higgins. diags J Ap Phys 13:390-8 Je '42

War maintenance; electrical conductors. il Coal Age 47:78-80 O '42

Wind shielding of parallel conductors. G. D. Sheckels. il Elec Eng 61:354-7 Jl '42

See also

Busbars
Electric cables
Electric transmission
Electric wire
Insulation (electric)
Radio conductors
Skin effect

Semi-conductors

Contacts between metals and between a metal and a semiconductor. H. Y. Fan. diag Phys R 62:388-94 O 1 '42

Electrical conductivity of titanium dioxide. M. D. Earle. diag Phys R 61:56-62 Ja 1 '42

Maintenance and corona blackout; use of semi-conducting material, Coronox, to protect windings. J. S. Askey. il diags Power Pl Eng 46:76-9 Ag '42

Method for measurement of the contact and volume resistance of semiconductors. P. H. Miller, jr. diag R Sci Instr 13:298-9 Jl '42

Theory of electrical contact between solids. H. Y. Fan. bibliog diags Phys R 61:365-71 Mr 1 '42

ELECTRIC conduits

A-c wiring in conduit. E. G. Key. Power Pl Eng 45:90-1 D '41

Bare neutral in old conduit. Eng & Min J 143:69 S '42

Conduits and fitting joints. Electrician 129:265-6 S 11 '42

Dissolved insulation; use of carbon disulfide; repairing conduit. A. A. Schulke. Power 86:335-6 Ap '42

Drainage couplings obviate manhole. diag Elec W 117:1378-9 Ap 18 '42

Duct flooding cools cable hot spots. R. L. Dodd. Elec W 118:1284 O 17 '42

Electricity and fire risk. Electrician 128:311-12 Ap 3 '42

How to seal duct openings. diags Elec W 118:310 Jl 25 '42

Increase visibility with underfloor duct; McCulloch engineering company. il Elec W 117:505 F 7 '42

Jumpers make conduit connections safer. S. H. Coleman. diags Factory Management 100:124 My '42

Plastic-covered conduit. il Gen Elec R 45:595 O '42

Substation conduit structure. il Elec W 117:1218 Ap 4 '42

ELECTRIC connectors

Modernizing apparatus terminals. diag Elec W 117:1852 My 30 '42

ELECTRIC contacts

Breaker and switch contacts resurfaced with silver alloy. L. M. Limpus. il Elec W 118:1271 O 17 '42

Contact resistance; temperature rise in switches. R. W. J. Cockram. il Elec R (Lond) 131:231-4 Ag 21 '42

Contacts between metals and between a metal and a semiconductor. H. Y. Fan. diag Phys R 62:388-94 O 1 '42

Contacts for cord sets; how they were improved by research. E. O. Morton. il Product Eng 13:454-7 Ag '42

Design features of a new high-capacity network protector. J. W. Seaman and R. W. Smith. il diags Gen Elec R 44:673-7 D '41

Electrical contact problems. il Engineer 174:146-9 Ag 21 '42

Electrostatic voltmeter as a d.c./a.c. transfer instrument; errors appear to be due to semi-conducting films on surfaces of elements; believed to be absent in voltmeters with working surfaces of freshly-cleaned platinum. R. S. J. Spilsbury and A. Felton. diags Inst E E J 89 pt 2:129-32; Discussion. 133-6 Ap '42

Quality control with sampling inspection; welding contacts for telephone equipment. C. S. Barrett. Mech Eng 64:361-4 My '42

Relay contacts; new material for heavy duty; powder metallurgy product silver-nickel Elkonite. H. R. Brooker. il Elec R (Lond) 130:651-2 My 22 '42

Rhodium contacts. Electronics 15:88 Ja '42

Silver alloy brazed on copper castings. Elec W 117:1032+ Mr 21 '42; Same. Gen Elec R 45:302 My '42

Silver electrical contacts excellent. Iron Age 150:60 Jl 16 '42

Solder-flushed electrical contacts. diags Metals & Alloys 15:630 Ap '42; Same. Gen Elec R 45:363 Je '42

Theory of electrical contact between solids. H. Y. Fan. bibliog diags Phys R 61:365-71 Mr 1 '42

Use of statistical control in corrosion and contact resistance studies. W. E. Campbell. Electrochem Soc Trans 81 (preprint 26):391-404 Ap '42

ELECTRIC contractors

Delivery and taking over of heavy electrical plant. Engineer 173:489-91 Je 12 '42

Informer loses; judgment won from Pittsburgh contractors is set aside by court. Business Week p32 Ap 4 '42

Informer socked; Arnold's asking court to throw out citizen's $315,000 case against contractors in Pittsburgh. Business Week p40-1 Mr 7 '42

Liability for repaired goods. Elec R (Lond) 131:182 Ag 7 '42

Notes for contractors; reservation age, repairs and liability, income tax. Electrician 129:124 Jl 31 '42

Accounting

War-time cost accounting; outline of practical system for electrical contractors. S. H. Withey. Electrician 127:335 D 12 '41

ELECTRIC control

Automatic control of boring mills obtained by accurately cut screws; Selsyn thyratron and amplidyne apparatus. R. Hillner and K. K. Bowman. il diags Mach 48:138-42 D '41

Automatic control; opportunities in the post-war chemical industry. Electrician 128:564-7 Je 5 '42

Automatic load control keeps power systems in step. diags Power 86:628-30 S '42

Automatic tank-battery control simplifies lease operation. H. F. Simons. il diags Oil & Gas J 40:227-8 Mr 26 '42

Automatic time-temperature control in heat treating. diag Iron Age 150:54-5 N 5 '42

Automatically controlled dredge; sand and gravel plant of Warner co. I. Warner. il diags plan Rock Prod 45:38-41+ Ap '42

Auxiliary motors and control gear; improvement and output maintained by Metrovick. il Chem Age (Lond) 46:51 Ja 24 '42

Avoiding electrical control breakdowns helps maintain essential production. E. H. Alexander. il Chem & Met Eng 49:101-2 O '42

Blast furnace skip hoist operation with amplidyne exciter control. C. P. Hamilton. il diags Blast F & Steel Pl 30:1023-5 S '42

Boiler control; a modern centralised installation. il Elec R (Lond) 130:295-300 Mr 6 '42

Build in controls for wartime economy! R. S. Elberty. il Machine Design 14:103-5 Ap '42

Can making; how electrical control speeds up production. il Elec R (Lond) 129:725-9 D 26 '41

Coaling station with automatic controls. flow diag il Ry Age 112:548-9 Mr 14 '42

Cold rolling strip steel at 3900 feet per minute. J. D. Campbell and J. R. Taylor. il diag Steel 110:78, 80, 82 F 23 '42

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Controlled power for plating. L. W. Reinken. il Metal Finishing 40:470-1 S '42

Controlling flotation reagents automatically; Cuban-American manganese plant. F. Trotter. il plan Eng & Min J 142:45-6 N '41

ELECTRIC control—*Continued*

Controls for packaging machines; milk carton filler; abstract. V. T. Grover. diag Iron Age 149:59-60 Ap 16 '42

Direct current amplifier and its application to industrial measurements and control; abstract and discussion. D. C. Gall. Electrician 128:249-51 Mr 20 '42

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

Electric control for steam boilers on Diesel-electric and straight electric locomotives. E. H. Burgess. il diag Elec Eng 61:Trans 604-6 Ag '42

Electric control systems on overhead travelling cranes. Mech Handling 29:161-2 S '42

Electrical developments of 1941; control. G. Bartlett. il Gen Elec R 45:24-5 Ja '42

Electrical features of the 200-inch telescope. B. H. Rule. il diags Elec Eng 61:67-78 F '42

Electrical remote control. C. J. Dorr and L. N. Galton. il Electronics 15:60-4, 173-4 N '42 (to be cont)

Electrical timing devices; diagrams. Product Eng 13:26-7 Ja '42

Electro-hydraulic unit gives sensitive control. il diags Machine Design 13:70-1 D '41

How to connect controls, meters and relays for 60- and 100-kv. transmission lines; diagram. Elec W 118:322 Jl 25 '42

How to connect controls, meters and relays for three-winding transformer banks; wiring diagram. Elec W 118:966 S 19 '42

How to select, install and maintain control equipment. E. H. Alexander. il Gen Elec R 45:387-91 Jl '42; Same. Marine Eng 47: 144-8 Ag '42; Same. Paper Ind 24:495-8+ Ag '42; Same. Steel 111:84-5+ Ag 17 '42; Same. Aero Digest 41:217-18, 221+ S '42; Same. Eng & Min J 143:66-7 N; 71-2 D '42; Same cond. Am Mach 86:764-6 Jl 23 '42; Same cond. Food Ind 14:61-2 O '42; Same cond. Heating-Piping 14:597-9 O '42

Improved solutions of remote control problems. H. Chase. il Aviation 41:97, 99, 101 Je '42

Low-frequency signals operate receiver; subaudible signals superimposed on radio program circuit turn on loudspeaker, light a lamp or sound an alarm. il diag Elec W 117:2090 Je 13 '42

Measurement and control features of world's outstanding pipe line; Plantation pipe line. M. A. Hyde. il map Instruments 15:288-9 Ag '42

Monitor plane control includes contactors and governor. il Coal Age 47:83 Je '42

New equipment. il Iron Age 149:62-7 F 12 '42

New mercury rheostatic method. K. A. Oplinger. il diag Instruments 15:46+ F '42

Operation of electric-drive ships. F. V. Smith. diags Marine Eng 47:143-8 S '42

Optional-control system of domestic electricity supply. P. Schiller. diags Inst E E J 89 pt 2:170-4; Discussion. 174-84 Je '42

Polarized control used on ski lift, Mt. Hood, Oregon. W. K. Nelson and R. W. Hutchinson. diag Elec W 117:312+ Ja 24 '42

Progress in engineering knowledge during 1941. P. L. Alger. bibliog Gen Elec R 45: 111-12 F '42

Quick-stop device for light lathe. il diag Elec W 117:1024+ Mr 21 '42

Remote-control door operators speed handling between plants. il diag Steel 110:76, 78 Je 22 '42

Safety controls for Diesel engines. il diags Diesel Power 19:1035-7; 20:50-3, 131-5+ D '41-F '42

Speed regulating device outstanding on new paper-making machine; electronic amplifier in combination with an amplidyne control. il Paper Tr J 113:114+ N 27 '41

Steady-state theory of the amplidyne generator. T. D. Graybeal. bibliog diag Elec Eng 61:Trans 750-6 O '42

Time lag in automatic control. H. Seymour. Electrician 129:63-6 Jl 17 '42

Timers and time meters; importance in efficient utilization of plant machinery and for control of manufacturing processes. C. H. Ridgley and J. L. Theisen. il diags Gen Elec R 45:569-72 O '42

See also

Carrier current control
Electric controllers
Electric motors—Control
Electric switches
Photoelectric cells—Control uses
Thyratron
Valves—Electric control
Voltage regulation

ELECTRIC controllers

Before you reapply controls; changing a motor controller from original application to another. L. E. Markle. il diags Factory Management 100:116-18 Ja '42

Control of tie-line power swings. C. Concordia, H. S. Shott and C. N. Weygandt. Elec Eng 61:Trans 306-13 Je '42

Controller resistances. W. de Renzi. diags Electrician 129:93-7 Jl 24 '42

Electroliner's control and motor equipment. G. R. Purifoy. il Mass Transportation 37: 326-8 N '41

Exhibits of transit equipment; electric vehicle motors and control; pictorial review. Transit J 86:338-9 S '42

War maintenance; controls and breakers. il Coal Age 47:108-10 O '42

WPB urges maximum use of all available electric motors. Elec Eng 61:536-7 O '42; Mech Eng 64:820-1 N '42

ELECTRIC converters

Static phase converter. il Engineer 173:214 Mr 6 '42

Static phase converters. il diag Engineering 153:385-6 My 15 '42

See also

Electric rectifiers

ELECTRIC converters, Synchronous

Direct current conversion equipment in the electrochemical industry. L. H. Fletemeyer. il Electrochem Soc Trans 81 (preprint 32): 455-68 Ap '42

ELECTRIC cooking

Club's converted kitchen pays. C. L. Hoffman. il Elec West 89:54 Ag '42

Commercial cooking sold to stay sold; Idaho Power sales plan. O. C. Mayer. il Elec W 116:1571-2+ N 15 '41

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Mass catering; all-electric equipment at a Coventry communal feeding centre. il Elec R (Lond) 130:779-81 Je 19 '42

Meat shrinkage not affected by fuel; gas and electric cooking compared. L. Ayers. Am Gas Assn Mo 24:214 Je '42

Modern canteen. il Electrician 129:307-8 S 18 '42

Relative cleanliness and costs of gas and electric deep fat frying. F. Crompton. il Am Gas J 155:40-2 D '41

Works canteen; electrical features of industrial unit. il Electrician 128:91-2 F 6 '42

Yield of certain wholesale cuts of beef roasted by gas and by electricity. L. Ayers. Gas Age 90:11-12 Ag 13 '42

See also

Electric stoves

ELECTRIC cords

Care of electric cords. il Safety Eng 84:36 Ag '42

Contacts for cord sets; how they were improved by research. E. O. Morton. il Product Eng 13:454-7 Ag '42

Danger of electric shock from cords and its prevention. Comp Air M 47:6746 My '42

Electric extension cords; hazards and precautions. Nat Safety N 45:52, 54 Ja '42

Electric oven bakes coiled electric cord. il Elec W 117:336 Ja 24 '42

Shocks eliminated by 6-volt cords. Eng & Min J 143:49 Mr '42

ELECTRIC current limiters

Co-ordinating network fuses and limiters. T. Braaten. il diags Elec W 117:811-13 Mr 7 '42

ELECTRIC current limiters—*Continued*
Industrial network limiter developed. J. M. Wallace. il diag Elec W 118:1124 O 3 '42
Range-water heater combination reduces distribution demand; load limiter utilized. W. S. Fleming. Elec W 116:1887-8+ D 13 '41
Regulators aid sodium lighting operation; operating data on Tacoma highway lighting installations. P. A. Brown. il diags Elec West 88:38-9 Ja '42
Relative expense for service restoration with different types of overcurrent protection for distribution circuits. G. F. Lincks and C. R. Craig. diags Elec Eng 61:Trans 813-21 N '42
Relay inverse time characteristic doubled. G. Steeb. diags Elec W 118:1484+ O 31 '42
600-volt enclosed limiter for network use. P. O. Langguth, H. L. Rawlins and J. M. Wallace. bibliog il diags Elec Eng 61:Trans 536-8 Jl '42
Temperature coordination of relays and fuses. M. R. Howell. Elec W 118:72-4 Jl 11 '42

ELECTRIC current rectifiers. See Electric rectifiers

ELECTRIC currents
Abnormal currents in distribution transformers due to lightning. J. M. Bryant and M. Newman. il diag Elec Eng 61:Trans 564-8 Ag '42
Chart for determining power factor from line current. Power Pl Eng 46:92 Je '42
Current induced in an external circuit by electrons moving between two plane electrodes. R. Kompfner. Wireless Eng 19:52-5 F '42
Current loci for the capacitor motor. T. C. McFarland. diags Elec Eng 61:Trans 152-6 Mr '42
Current-transformer errors; measurement by an exciting-current method. G. F. Freeman. diag Elec R (Lond) 131:41-2 Jl 10 '42
Dispersion and absorption in dielectrics; direct current characteristics. K. S. Cole and R. H. Cole. bibliog J Chem Phys 10:98-105 F '42
Effect of initial conditions on subharmonic currents in a nonlinear series circuit. S. J. Angello. diags Elec Eng 61:Trans 625-7 S '42; Discussion. 61:635-6 D '42
Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15:34-41+ S '42
Energy and energy flow in the electromagnetic field. J. Slepian. J Ap Phys 13:512-18 Ag '42
Fault current calculation. W. A. Mears. diags Electrician 129:33-7, 58-60, 84-7 Jl 10-24 '42
Field investigation of the characteristics of lightning currents discharged by arresters. I. W. Gross, G. D. McCann and E. Beck. il diags Elec Eng 61:Trans 266-71 My '42
Fusing currents. W. T. Maccall. Electrician 129:218-19 Ag 28 '42
Increase of residual magnetism caused by a current flowing through an iron bar. H. A. Perkins and H. D. Doolittle. diag Phys R 60:811-17 D 1 '41
Measurement of lightning voltages and currents in Nigeria, 1938-1939. F. R. Perry, G. H. Webster and P. W. Baguley. bibliog diags Inst E E J 89 pt 2:185-203, pl 1-4; Discussion. 203-9 Je '42
Measurement of lightning voltages and currents in South Africa and Nigeria, 1935 to 1937. F. R. Perry. bibliog diags pl Inst E E J 88 pt 2:69-87 Ap '41; Discussion. 88 pt 2:521-4 D '41
Simplified calculation of fault currents. Elec Eng 61:509-11 O '42
Symmetrical component currents; a 2-wattmeter method of measurement. G. W. Stubbings. Electrician 127:255-6 O 31 '41
System short circuits; calculation of the currents when applying interrupting devices and relays. C. A. Woodrow. Gen Elec R 45:357-9 Je '42
Tests and analysis of circuit-breaker performance when switching large capacitor banks. T. W. Schroeder, E. W. Boehne and J. W. Butler. il diags Elec Eng 61:Trans 821-31 N '42
See also
Electric measurements
Electric transformers
Electric transient phenomena
Electric waves

ELECTRIC currents, Alternating
A-c calculation charts. R. Lorenzen. 19p, 148p bibliog(p10) $7.50 John F. Rider publisher, 404 4th av, New York '42
Alternating current in the United States navy. H. G. Rickover. il Elec Eng 61:289-302 Je '42
A.c. reactive supply. G. W. Stubbings. Electrician 128:115-16 F 13 '42
A.c. vectors; significance of the operator j. A. G. Powell. Elec R (Lond) 129:694 D 19 '41
Alternating currents; abstract. F. Bedell and A. C. Crehore. Science 96:sup8 S 18 '42
Electrical circuits and machinery. F. W. Hehre and G. T. Harness. v2 635p $6 Wiley '42
Harmonics and power factor. G. W. Stubbings. Elec R (Lond) 130:726-7 Je 5 '42
Industrial electricity. C. L. Dawes. 2d ed pt 2 523p $2.75 McGraw-Hill '42
Long-distance power transmission by alternating current. E. Friedländer and C. J. O. Garrard. diags Engineering 153:1-3, 21-3, 41-3 Ja 2-16 '42; Discussion. A. M. Taylor. 153:194-5 Mr 6 '42
Novel features mark a.c. calculating board; Public service company of Oklahoma. E. B. Phillips and L. C. Grigsby. il Elec W 116:2030-1 D 27 '41
1-phase from 3-phase systems. G. W. Stubbings. Electrician 129:223-4 Ag 28 '42
Power factor variation of single phase. G. W. Stubbings. diags Electrician 128:442-3 My 8 '42
Practical radio course; study of alternating current. A. A. Ghirardi. diags Radio N 28:26+ Jl '42
Standardized load-center unit substations for low-voltage a-c systems. E. M. Hunter and J. C. Page. il diags Elec Eng 61:Trans 519-25 Jl '42
See also
Electric circuits

ELECTRIC cutouts
Aircraft voltage regulator and cutout. R. C. Jones, D. W. Exner and S. H. Wright. il diags Elec Eng 61:Trans 334-9 Je '42
See also
Electric fuses

ELECTRIC cutting
See also
Saws, Electric

ELECTRIC discharges
Angular distribution of current from a point in hydrogen. W. H. Bennett. diags Phys R 61:53-6 Ja 1 '42
Cause of high voltage surges in rectifier circuits. A. W. Hull and F. R. Elder. diags J Ap Phys 13:372-7 Je '42
Decomposition of methane in glow discharge at liquid-air temperature. L. M. Yeddanapalli. bibliog diag J Chem Phys 10:249-60 My '42
Directional properties of self-quenching counters. W. E. Ramsey. diags Phys R 61:96-7 Ja 1 '42; Same. Franklin Inst J 233:595-7 Je '42
Discharge mechanism of fast G-M counters from the deadtime experiment. H. G. Stever. bibliog il diags Phys R 61:38-52 Ja 1 '42
Electronic method of measuring molecular lifetimes; applied to measure decay of fluorescence and to measure decay of light from a nitrogen discharge. R. D. Rawcliffe. il diags R Sci Instr 13:413-18 O '42
Excitation of the anode effect. P. L. Copeland and G. G. Carne. diags Phys R 61:635-42 My 1 '42

ELECTRIC discharges—*Continued*

Fluorescence of phosphors in the rare gases. G. R. Fonda and H. Huthsteiner. bibliog Opt Soc Am J 32:156-60 Mr '42

Further confirmation of the Montgomery theory of counter discharge. W. E. Ramsey and W. L. Lees. diag Phys R 60:411 S 1 '41; Same. Franklin Inst J 233:85-7 Ja '42

Gaseous conductors, theory and engineering applications. J. D. Cobine. 606p $5.50 McGraw-Hill '41

Mechanism of the electric spark. J. Zeleny. bibliog J Ap Phys 13:444-50 Jl '42

Mobilities in nitrogen at high current densities. W. H. Bennett. diags Phys R 62:369-71 O 1 '42

Mobilities in some free electron gases. W. H. Bennett and L. H. Thomas. Phys R 62:41-7 Jl 1 '42

Nature of reactions occurring in the production of the afterglow of active nitrogen and the effect of temperature on the phenomena. D. E. Debeau. bibliog Phys R 61:668-9 My 1 '42

Pulses in negative point-to-plane corona. L. B. Loeb, A. F. Kip and G. G. Hudson. bibliog il diags Phys R 60:714-22 N 15 '41

Some discharge characteristics of self-quenching counters. W. E. Ramsey and E. L. Hudspeth. Phys R 61:95-6 Ja 1 '42; Same. Franklin Inst J 233:502-5 My '42

Stored energy welds aluminum. C. E. Smith. il diags Am Mach 86:375-8 Ap 30 '42

Theory of the initial avalanche in the breakdown of a discharge counter in helium. S. C. Brown. diags Phys R 62:244-54 S 1 '42

Threshold field studies of various positive corona phenomena. K. E. Fitzsimmons. bibliog Phys R 61:175-82 F 1 '42

Use capacitance discharge to locate cable faults; method uses noise of discharge as guide. W. D. Seal. il diag Elec W 117:1006-7+ Mr 21 '42

See also

Corona (electricity)
Electric sparks
Electrons—Emission from metals
Geissler tubes
Ionization, Gaseous
Lightning
Vacuum tubes
X rays

ELECTRIC distribution

Abnormal currents in distribution transformers due to lightning. J. M. Bryant and M. Newman. il diag Elec Eng 61:Trans 564-8 Ag '42

Air-cooled transformers solve mine power problem. H. M. Wolflin. il Elec W 118:283 Jl 25 '42

Aircraft maintenance; new aspect of electrical versatility. il Elec R (Lond) 130:747-51 Je 12 '42

American installation practice; equipment of a Red Cross field hospital unit in England. il Elec R (Lond) 130:19-21 Ja 2 '42

Back-up connection safeguards power. diag Elec W 118:306 Jl 25 '42

Cable loading for war industry loads. E. W. Oesterreich. Edison Elec Inst Bul 10:45-7 F '42

Cardiff electricity undertaking, 1891-1941. E. Jones. Inst E E J 89 pt 1:94-7 F '42

Circuit-controlling devices on power supply systems. C. W. Marshall. bibliog il diags Inst E E J 89 pt 1:175-90 Ap '42

City distribution by solid low-voltage networks; abstracts. B. Wood. Electrician 128:146-7 F 20 '42; Elec R (Lond) 130:207 F 13 '42; Discussion. Electrician 128:147-8 F 20 '42

Clyde Valley electrical power co. il Elec R (Lond) 131:323-7 S 11 '42

Coordination of distribution and power supply system voltages. C. E. Arvidson. Edison Elec Inst Bul 10:295-7 Ag '42; Same. Elec W 118:769-71 S 5 '42

Copper saved to make magnesium; busbar and feeder system for the electrolytic plant located at Basic magnesium, inc. il Elec West 89:48-50 O '42

Distribution engineers trade operating ideas; E.E.I. transmission and distribution committee meeting, Cincinnati. Elec W 118:1455 O 31 '42

Distribution problems in cantonments. il Elec W 116:1704-7+ N 29 '41

Distribution systems in wartime. T. R. Tates. Elec Eng 61:445-6 Ag '42

Effect of initial conditions on subharmonic currents in a nonlinear series circuit. S. J. Angello. diags Elec Eng 61:Trans 625-7 S '42

Electric-power distribution systems in wartime; symposium. P. Sporn and others. diags Elec Eng 61:Trans 105-26 Mr '42; Abstract. il Power Pl Eng 46:68-73 My '42

Facilities for the supply of kilowatts and kilovars. H. K. Sels and T. Seely. map Elec Eng 61:Trans 249-55 My '42

Fundamentals of industrial distribution systems. D. L. Beeman and R. H. Kaufmann. il diags Gen Elec R 45:235-44 Ap '42; Same. Elec Eng 61:Trans 272-9 My '42; Abstracts. Iron Age 149:63 F 5 '42; Aero Digest 40:243-4 Mr '42; Elec West 88:41 Mr '42; Power 86:205-7 Mr '42; Power Pl Eng 46:72-5 Mr '42; Steel 110:72, 74+ Mr 23 '42

G. E. introduces new power distribution system; load-center system. il plans Chem & Eng N 20:486-7 Ap 10 '42

High voltage distribution. G. A. T. Burdett. Electrician 129:383-4 O 9 '42

High-voltage distribution saves copper. il diags Factory Management 100:92, 94 Mr '42

High voltage power distribution underground. A. L. Lee. il diags Min Cong J 28:30-2+ Ap '42

Higher circuit capacity, same weight of copper; modern low-reactance cable; Louisville cement co. G. L. Hoddy and T. McDonald. il Elec W 118:1092-3 O 3 '42

How electric utilities are solving operating problems arising out of the war; how service is being provided for urgent load. il diags Elec W 117:1834-6 My 30 '42

How to conserve vital materials in industrial distribution systems. R. B. McKinley and L. D. Madsen. il diags Power Pl Eng 46:58-61 Ap '42

How to gain maximum facility, flexibility, and economy in industrial power distribution; use of unit substations. N. L. Hadley. il diag Gen Elec R 44:597-8 N '41

Industrial plants; power distribution. il plans Arch Rec 91:69-70 Je '42

Insulation tests; application to a.c. distribution networks. G. W. Stubbings. diag Electrician 128:616-17 Je 19 '42

Internal distribution problems. G. A. T. Burdett. Electrician 129:439-41 O 23 '42

Large single-phase loads; obtaining balanced three- to single-phase transformation. A. L. Morris. diags Elec R (Lond) 131:145-6 Jl 31 '42; Excerpts. Elec W 118:766 S 5 '42

Load-center distribution system for industrial plants and buildings. D. L. Beeman and R. H. Kaufmann. il diags Blast F & Steel Pl 30:769-74 Jl '42; Excerpts. Chem & Met Eng 49:97-8 Mr '42

Load-center distribution system for industrial plants, shipyards and naval projects. il diag Marine Eng 47:91-4 F '42; Same cond. Automotive & Aviation Ind 86:16-17+ Mr 1 '42

Loop that is not a loop; Marinship electric distribution system. il diags Elec West 89:45-7 O '42

Make one pound of copper do the work of two. L. A. Umansky. Gen Elec R 45:555-6 O '42; Abstract. Blast F & Steel Pl 30:1043-4 S '42; Same. Steel 111:104 O 12 '42

Matching the load and the system capacity. W. J. Lyman. Edison Elec Inst Bul 10:49-52 F '42

Memphis has uniform transfer bus scheme. il diag Elec W 118:160 Jl 11 '42

Planning distribution centres. T. H. Carr. diags Electrician 128:480-3 My 15 '42

Power design in defense plants. H. Winte. il diags Elec W 116:2039-41; 117:59-62, 478-81, 640-2, 805-8 D 27 '41-Ja 10, F 7-Mr 7 '42

Power distribution and protective devices. R. L. Alpine. Min Cong J 28:51 Je '42

Protective systems in 11kV distribution; abstract. C. Freeland. Electrician 128:334-5 Ap 10 '42

ELECTRIC distribution—*Continued*

Refinements improve industry service. Elec W 118:324+ Jl 25 '42

Rural industry; importance of having electrical facilities available. il Elec R (Lond) 131:165-9 Ag 7 '42

Same—yet different; wiring, Rincon Annex postoffice, San Francisco. il Elec West 87: 46-8 D '41

Secondary-network systems serve high-production power loads. H. D. James. il diag Power 86:326-9 My '42

Secondary networks serve ordnance plants. H. D. James. il diag plan Elec W 118: 445-8 Ag 8 '42

Some problems encountered on a distribution system, with special reference to Shanghai. V. Sia. il diags Inst E E J 89 pt 2:143-52 Ap '42

Standardization of distribution in densely loaded areas. J. W. Leach. diag plans Inst E E J 88 pt 2:525-41; Discussion. 541-60 D '41

Standardized load-center unit substations for low-voltage a-c systems. E. M. Hunter and J. C. Page. il diags Elec Eng 61:Trans 519-25 Jl '42

Star-mesh transformations; their relation to three-phase unbalanced power. G. F. Freeman. diags Electrician 128:36 Ja 16 '41

Supplying kilovar loads for war conservation and economy. M. C. Miller. diags Edison Elec Inst Bul 10:363-8+ O '42

Switch scheme for feeders, regulators. diag Elec W 118:488+ Ag 8 '42

Switchgear in industry; arrangements in large establishments supplied from public mains. W. A. Brown. Electrician 128:50-1 Ja 23 '42

Systematized surveys reveal network load conditions; Oklahoma gas & electric company. R. W. Coursey. diags Elec W 116: 1712-14+ N 29 '41

Transformer connections can work for you. T. J. Woth. diags Factory Management 100:120, 122, 124 Je '42

Transformer operating guide to feasible war loadings. H. W. Hartzell. Elec W 117: 2222-4 Je 27 '42

Utilization voltages. H. P. Seelye. Elec Eng 61:Trans 147-51 Mr '42; Same. Edison Elec Inst Bul 10:83-7+ Mr '42

Wartime electric-system planning. R. G. Hooke and E. C. Plant. Elec Eng 61:192-6 Ap '42

Way it happened; four fronts for distribution as well as generation of power. H. Corey. Pub Util 29:276-87 F 26 '42

Which power-distribution system? four industrial-plant systems described and compared. il diags Power 86:152-4 Mr '42

Wind shielding of parallel conductors. G. D. Sheckels. il Elec Eng 61:354-7 Jl '42

Works distribution. il Elec R (Lond) 130:519-22 Ap 24 '42

See also

Busbars
Electric cables
Electric conductors
Electric conduits
Electric currents
Electric lines
Electric plants—Interconnection
Electric power
Electric rectifiers
Electric service, Rural
Electric substations
Electric transformers
Electric transmission
Electric wiring
Electric wiring, Interior
Street lighting
Voltage regulation

Change-over

Convert 25-cycle steel furnaces to 60. L. V. Black. Elec W 116:2063-4 D 27 '41

Exterior feeds solve rewiring problem; changeover in factory office building; General electric co. A. H. Fish. il diags Elec W 118:764-6 S 5 '42

Operation of a 25 cycle transformer on 60 cycles. W. C. Sealey. Power Pl Eng 45: 90 D '41

Special rectifiers assist changeover. diag Elec W 116:1920+ D 13 '41

Cost

Relative expense for service restoration with different types of overcurrent protection for distribution circuits. G. F. Lincks and C. R. Craig. diags Elec Eng 61:Trans 813-21 N '42

Static capacitors save investment dollars. R. G. Hooke. Elec W 117:1180-2 Ap 4 '42

Transmission costs at various voltages; abstract. C. A. Powel. Elec W 118:306 Jl 25 '42

Grounding

Advantage of having circuits grounded. H. A. Peterson. Elec W 117:322 Ja 24 '42; Same. Power Pl Eng 46:93 F '42

Critical analysis of rotating machine grounding practice. H. A. Peterson. Gen Elec R 45:215-20 Ap '42

Factory earthing. F. E. Butcher. Electrician 128:398-400 Ap 24 '42

Ground electrodes installation methods. J. R. Eaton. il diag Elec W 116:1587 N 15 '41

Impulse and 60-cycle characteristics of driven grounds. P. L. Bellaschi. bibliog diags Elec Eng 60:Trans 123-8 Mr '41; Discussion. W. H. Treadway. 61:106-7 F '42

Practical aspects of earthing. E. Fawssett and others. Inst E E J 87:357-90 O '40; Discussion. 87:391-400 O '40; 88 pt 2:600-8 D '41; 89 pt 2:165-7 Ap '42

Progress report, American research committee on grounding; effect on water and piping. Am Water Works Assn J 34:69-75 Ja '42; Abstract. Edison Elec Inst Bul 9: 462+ N '41

Progress report of American research committee on grounding on water pipes. Edison Elec Inst Bul 10:311-12 Ag '42

Rapid installation of effective deep grounds; well-drilling technique adapted to reaching water table. L. N. Rebsamen. il Elec W 118:762-4 S 5 '42

Report presented to the council by the committee on multiple earthing of the neutral conductor. diags Inst E E J 89 pt 1:312-15 Jl '42; Discussion. Electrician 129:165-6 Ag 14 '42; Discussion. S. H. Parker. Elec R (Lond) 131:207-8 Ag 14 '42

Special plate stops ground wire breakage. diags Elec W 118:1133 O 3 '42

Study of driven rods and counterpoise wires in high-resistance soil on Consumers power company 140-kv system. J. G. Hemstreet, W. W. Lewis and C. M. Foust. Elec Eng 61:Trans 628-33 S '42

Use of protective multiple earthing and earth-leakage circuit-breakers in rural areas (second report). H. G. Taylor. diags Inst E E J 88 pt 2:415-22 O '41

Grounds and faults

Analysis of short circuits for distribution systems. C. F. Dalziel. bibliog diags Elec Eng 61:Trans 757-64 O '42

Analysis of the application of high-speed reclosing breakers to transmission systems. S. B. Crary, L. F. Kennedy and C. A. Woodrow. bibliog il diags Elec Eng 61: Trans 339-48 Je '42

Automatically reclosing breaker for co-ordinating distribution systems. H. L. Rawlins and J. M. Wallace. il diag Elec Eng 60: Trans 1021-4 D '41

Charging locates open cable faults F. E. Reeves. Elec W 118:785-6 S 5 '42

Co-ordinating network fuses and limiters. T. Braaten. il diags Elec W 117:811-13 Mr 7 '42

Fault bus-differential scheme protects Cahokia bus. G. W. Gerell. diags Elec W 117: 1335-6 Ap 18 '42

Fault current calculation. W. A. Mears. diags Electrician 129:33-7, 58-60, 84-7 Jl 10-24 '42

High-speed single-pole reclosing. J. J. Trainor, J. E. Hobson and H. N. Muller, jr. bibliog il diags map Elec Eng 61:Trans 81-7 F '42

Location of ground faults on series electrolytic cell systems. V. F. Hanson and F. G. LaViolette. diags Electrochem Soc Trans 82 (preprint 5):65-75 O '42

ELECTRIC distribution—Grounds and faults—*Continued*

Management of protective gear on power supply systems. W. Casson and F. H. Birch. il diags Inst E E J 89 pt 2:317-41; Discussion. 341-54, 509-18 Ag, O '42

Modern distribution fuse links. G. F. Lincks. diag Power Pl Eng 46:55-7 Ag '42

New single-phase-to-ground fault-detecting relay. W. K. Sonnemann. il diags Elec Eng 61:Trans 677-80 S '42

Oscillograph starts on all faults. V. D. Hollis. diag Elec W 118:806 S 5 '42

Performance of ground-relayed distribution circuits during faults to ground; data useful in joint use of poles by power and telephone facilities. C. L. Gilkeson, P. A. Jeanne and J. C. Davenport, jr. il Elec Eng 61:Trans 40-8 Ja '42

Power design in defense plants; electrical system protection. H. Winte. diags Elec W 117:640-2 F 21 '42

Protection of pilot-wire circuits. E. L. Harder and M. A. Bostwick. diags Elec Eng 61: Trans 645:52 S '42

Protection problems. W. A. Mears. diags Electrician 129:305-6, 423-8 S 18, O 16 '42

Relative value of different types of overcurrent protection for distribution circuits. G. F. Lincks. Elec Eng 61:Trans 19-25 Ja '42

Relaying saves buying breakers. diag Elec W 117:1836 My 30 '42

Relays and breakers for high-speed single-pole tripping and reclosing. S. L. Goldsborough and A. W. Hill. diags Elec Eng 61: Trans 77-81 F '42

Sequence relay; a device to provide short-time system separation on long period oscillations. C. L. Betts, jr. bibliog diags Edison Elec Inst Bul 10:301-9 Ag '42

Simplified calculation of fault currents. Elec Eng 61:509-11 O '42

600-volt enclosed limiter for network use. P. O. Langguth, H. L. Rawlins and J. M. Wallace. bibliog il diags Elec Eng 61:Trans 536-8 Jl '42

System for finding a series circuit fault. diags Elec W 117:1694 My 16 '42

Transformer protection timed for secondary faults. B. O. Watkins. Elec W 116:1882-4 D 13 '41

Transient characteristics of current transformers during faults. C. Concordia, C. N. Weygandt and H. S. Shott. bibliog Elec Eng 61:Trans 280-5 My '42

Use capacitance discharge to locate cable faults; method uses noise of discharge as guide. W. D. Seal. il diag Elec W 117:1006-7+ Mr 21 '42

See also
Short circuits

Stability

Boosting and bucking transformers. V. N. Friedman. diags Power Pl Eng 46:57-9 S '42

Calculator applied to industrial system. W. W. Parker. diags Elec W 118:1267-8 O 17 '42

Capacitors benefit Cambridge system. il Elec W 117:2260 Je 27 '42

Capacitors bring system relief; Northwestern electric co. C. McLean. il Elec West 89: 68-70 S '42

Capacitors forestall feeder overloading. W. G. Robinson. il Elec W 117:2262 Je 27 '42

Capacitors help Attleboro lift power factor, cut peak. H. W. Thompson. il diag Elec W 117:1337-9 Ap 18 '42

Check wiring and transformer loadings to maintain production; industrial plant equipment. R. G. Hardy. il diags Elec W 117: 2059-61 Je 13 '42

Control of tie-line power swings. C. Concordia, H. S. Shott and C. N. Weygandt. Elec Eng 61:Trans 306-13 Je '42

Flicker reduction affords comparison of alternatives. J. W. Anderson. diag Elec W 118:284-7 Jl 25 '42

Lessons learned in serving resistance welders; service to single-phase welders reinforced to obviate flicker. C. N. Clark. Elec W 117: 1505-7 My 2 '42

Multi-purpose regulator aids voltage, load control. W. J. Lyman. il diags Elec W 117:648-50 F 21 '42

Reduction of system power and energy losses by power-factor improvement. F. M. Starr. Gen Elec R 45:165-71 Mr '42

Relay aids use of 3-terminal lines. diag Elec W 118:638 Ag 22 '42

Shunt and series capacitor use. W. E. Enns. diag Elec West 88:100-3 Je '42

Static balancers. il Electrician 129:67-8 Jl 17 '42; Same cond. Engineering 154:78 Jl 24 '42

Static capacitors save investment dollars. R. G. Hooke. Elec W 117:1008-10, 1180-2 Mr 21-Ap 4 '42

Use feeder regulators, save critical materials. O. B. Falls. diags Elec W 117:71-3 Ja 10 '42

Tables, calculations, etc.

Defining power-factor; unbalanced three-phase load. G. W. O. Howe. Elec R (Lond) 130:49-50 Ja 9 '42

Determine transformer load from customer records. J. Wallis and P. Shelley. Elec W 116:1872-4+ D 13 '41

Estimating charts for 60-cycle line design. G. D. McCann. Elec W 117:643-5 F 21 '42

High tension distribution. W. A. Mears. Electrician 128:337-43 Ap 10 '42

How to fit distribution transformers to their load; chart and tables. Elec W 118:788 S 5 '42

Low cost analysis for distribution. C. E. Boulson. Elec W 116:2060 D 27 '41

Network analyzer solves system problems; installed by Bonneville power administration. G. W. Bills. il diags Elec West 87: 30-2 D '41

Novel features mark a.c. calculating board; Public service company of Oklahoma. E. B. Phillips and L. C. Grigsby. il Elec W 116:2030-1 D 27 '41

Power factor of three-phase load; discussion on methods of assessment. G. W. Stubbings. diags Electrician 128:51-2 Ja 23 '42

Quicker way of computing distribution short circuits; combination of charts, template and table. J. D. Sauter and G. F. Lincks. Elec W 117:992-4 Mr 21 '42

Simplified method of calculating line-drop compensator settings. M. W. Keck and T. J. Kozak. Elec Eng 61:336-7 Je '42

Symmetrical components; unbalanced three-phase problems simplified. Elec R (Lond) 130:45-6 Ja 9 '42

System short circuits; calculation of the currents when applying interrupting devices and relays. C. A. Woodrow. Gen Elec R 45:357-9 Je '42

Three-phase resistance loads. G. W. Stubbings. diag Electrician 129:368-9 O 2 '42

Two network theorems. H. Ling. diags Elec Eng 61:225-6 Ap '42

ELECTRIC double layer

Modified theory of the electrical double layer. R. B. Whitney and D. C. Grahame. J Chem Phys 9:827-8 N '41

ELECTRIC driving

Adjustable speed drives; abstract. G. A. Caldwell. diags Iron Age 149:58-9 Ap 16 '42

Adjusting speed to suit load insures efficient operation. A. F. Hartung. il Power 86:789-91 N '42

American gear manufacturers' new standard speeds for gearmotors. Mach 48:142 D '41

Electric motors in industry. D. R. Shoults and C. J. Rife. 389p $4 Wiley '42

Electrical drives for wide speed ranges; addition of rotating regulator called Rototrol. G. A. Caldwell and W. H. Formhals. bibliog il diag Elec Eng 61:Trans 54-6 F '42

Electrical features of the 200-inch telescope. B. H. Rule. il diags Elec Eng 61:67-78 F '42

Electricity in the engineering industry. H. H. Sennett. Inst E E J 89 pt 1:193-7 Ap '42

Fit the reducer to the drive for trouble-free low-cost service. W. F. Plume. il Power 86:315-17 My '42

High production demands accurate braking. A. J. Moore. il Machine Design 14:50-3 Mr '42

ELECTRIC driving—*Continued*

How to determine WR^2. A. F. Lukens. diags Power Pl Eng 46:70-2 Ag '42

Improved drive for wire reeling machine. A. F. Metzger. diags Elec W 117:674+ F 21 '42

Large adjustable-speed wind-tunnel drive. C. C. Clymer. il diag Elec Eng 61:Trans 156-8 Mr '42

Leather production; conversion from oil-engine to electric driving. il Elec R (Lond) 130:195-8 F 13 '42

Making safety pins. il Elec R (Lond) 130: 589-91 My 8 '42

More life from gearmotors. H. W. Bennett. il Power 86:20-2 Ja '42

Motor-driven gates cut operating time. il Elec W 117:1870-1 My 30 '42

Revolving churn cleans oil drums. il Elec W 118:160+ Jl 11 '42

Series circuit simplifies adjustable speed drive. S. H. Hanville. il diags Power Pl Eng 46:76-8 Ja '42

Silent steel gear extends drive life; Stowe-Woodward hard rubber dust grinder. J. A. Clark. diag Machine Design 14:156+ Ap '42

Study of the modified Kramer or asynchronous-synchronous cascade variable-speed drive. M. M. Liwschitz and L. A. Kilgore. diags Elec Eng 61:Trans 255-60 My '42

They tore out all the motors and put in new ones! M. D. Valentine co. il Brick & Clay Rec 101:15-18 O '42

Variable-speed drive for United States army Air corps wind tunnel at Wright field, Dayton, Ohio. A. D. Dickey, C. M. Laffoon and L. A. Kilgore. il diag Elec Eng 61:Trans 126-30 Mr '42; Same cond. Aero Digest 40:212+ F '42; Excerpts. Power Pl Eng 46:87-9 Jl '42

See also

Airplanes—Electric equipment
Electric motors
Electric tools, Portable
Electricity in mining
Electricity in the petroleum industry
Elevators, Electric
Machine tools—Electric driving
Mine hoisting, Electric
Pumping machinery, Electric
Ship propulsion, Electric

Conveying machinery

Handling materials. il plan Elec R (Lond) 130:457-8, 492-3 Ap 10-17 '42

Power Selsyn error corrected; adjustable-speed conveyors. W. F. Morse. Elec W 117:114 Ja 10 '42

War necessitates use of alternative parts. H. C. Keller. diags Machine Design 14:158+ Ap '42

Excavating machinery

Electricity applied to single-bucket excavators; abstracts. P. H. R. Durand. plan Mech Handling 29:110-12 Je '42; Electrician 128:507-8 My 22 '42; Elec R (Lond) 130:636 My 15 '42; Discussion. Electrician 128:508-10 My 22 '42; Elec R (Lond) 130:656-8 My 22 '42

Machine tools

See Machine tools—Electric driving

Paper mills

Completely-electrified paper mill. C. E. Miller and F. A. Peschl. il Paper Ind 24:705-8 O '42

Electrical advances in the paper industry. H. W. Rogers. il diag Paper Ind 23:994-7 Ja '42

Electricity in paper mills. W. J. Mason and S. A. G. Emms. diags Mech Handling 28: 262-3 D '41

Electrification of a modern paper mill. R. G. Seip and R. R. Baker. il Paper Ind 24: 43-7 Ap '42

General Electric developments of 1941 in the paper industry; applications of amplidyne generators. Paper Tr J 114:15-16 Ja 8 '42

New electric drives in a Canadian mill. J. H. Radcliffe and W. T. Fanjoy. il Pulp & Pa of Can 43:13-16 Ja '42

Power for a single-machine paper mill; St Regis paper co.; electron tube-controlled direct-current paper machine drive. il Power Pl Eng 46:51-2 Je '42

Recent engineering developments increase production. W. R. Harris. il diag Paper Ind 23:1093-6 F '42

Power plant auxiliaries

Adjustable-varying-speed direct-connected drive for large boiler feed pumps. A. E. Beardmore. il Gen Elec R 45:159-60 Mr '42

Boiler control; a modern centralised installation. il Elec R (Lond) 130:295-300 Mr 6 '42

Draft-fan power supply circuits simplified. J. S. Brown. diags Elec W 117:1666-7 My 16 '42

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

Flexible power supply to boiler auxiliaries. il diag Elec W 118:158 Jl 11 '42

Motor-turning gear for small turbines. Elec W 117:316 Ja 24 '42

Motors for power-plant pumps meet special requirements. K. M. Patterson. il Power 86:714-16 O '42

Soot blower; developments from 1919 to today. R. J. Glinn. Electrician 128:646-7 Je 26 '42; Abstract and discussion. Elec R (Lond) 131:7-8 Jl 3 '42

Two 850-psi 900-F Watts Bar steam units serve TVA war loads. G. E. Morgan. il Power 86:479-80 Jl '42

Printing offices

Electricity and the newspaper. N. Haglöv. il Electrician 129:295-8 S 18 '42

Refrigerating plants

Drives for refrigerating plants. L. Macrow. il Power Pl Eng 46:64-5 S '42

Wartime belting efficiency. D. C. Miner. Refrig Eng 43:357-8 Je '42

Rolling mills

Brass making; extensive use of induction melting furnaces. il Elec R (Lond) 131: 357-60 S 18 '42

Cold rolling strip steel at 3900 feet per minute; Carnegie-Illinois steel corp. J. D. Campbell and J. R. Taylor. il Steel 110:78, 82+ F 16; 78, 80, 82 F 23 '42

Design and application of speed reducers. W. F. Plume. il Steel 111:98, 100+ N 2 '42

Developments in rolling mill electrical equipment. A. F. Kenyon. il Blast F & Steel Pl 30:64-6+ Ja '42

Floating motor drives; Alcoa, Tenn. plant of Aluminum co. il Iron Age 148:41 D 25 '41

Motor room ventilation in steel mills. T. J. Ess. diags plans Heat & Ven 39:25-30 Ag '42

Rubber factories

Electric drives for continuous processing machinery. J. Z. Linsenmeyer. il diags India Rubber W 106:359-60 Jl '42

Heavy driving; rubber mixing and milling installation. il Elec R (Lond) 131:291-4 S 4 '42

Rubber mill braking. il Electrician 129:320-1 S 25 '42

Sawmills

Electric drive improves saw rig. il Elec W 116:1593 N 15 '41

How to provide a drive having a rapid acceleration and retardation and quick return motion; amplidyne controlled motor; saw-mill log carriage. H. B. LaRoque. il diags Gen Elec R 44:619-20 N '41

ELECTRIC driving—*Continued*

Ships' auxiliaries

Alternating current in the United States navy. H. G. Rickover. il Elec Eng 61:289-301 Je '42

Care of direct-current motors for driving auxiliaries on shipboard. A. O. Loomis. il diags Marine Eng 47:130-7 S '42

Sugar factories

Electricity in a beet-sugar factory. B. Smith. Inst E E J 89 pt 2:278-83 Ag '42; Abstract. Electrician 128:21-2 Ja 9 '42; Discussion. Inst E E J 89 pt 2:283-7 Ag '42

Some considerations relating to the totally electrified cane-sugar factory. L. B. Whitaker. diag plan Inst E E J 89 pt 2:270-7 Ag '42; Same. Engineering 153:97-100 Ja 30 '42; Abstract. Electrician 128:22 Ja 9 '42; Discussion. Inst E E J 89 pt 2:283-7 Ag '42

Textile mills

Electronic control of motors in textile industry; Thy-mo-trol system. A. P. Mansfield. il diags Rayon 23:557-8 S '42

How to obtain an a-c drive that will deliver constant horsepower at different speeds; constant-tension drive for dyeing machine. A. P. Mansfield. il diag Gen Elec R 44:595-6 N '41

Mill conversion scheme; Smith & Calverley, ltd. il Elec R (Lond) 130:3-7 Ja 2 '42

Motor drive gives uniform cloth tension; dye jig of Duo dyeing machine company. il diags Product Eng 13:259 My '42

Simplified drive solves speed problem; motor drives on double-tricot fabric-knitting machines. J. F. Muller. il Power 86:198 Mr '42

Timing in production regulation; speed synchronization. il Rayon 23:111-14 F '42

V-belts keep them rolling. il diags Rayon 22:691-3 N '41

Woodworking shops

Modern woodworking; H. Morris & co. il Elec R (Lond) 131:449-54 O 9 '42

ELECTRIC earthing. See Electric distribution—Grounding

ELECTRIC elevators. See Elevators, Electric

ELECTRIC engineering

Abstracts of American institute of electrical engineers summer meeting papers. Elec Eng 61:324-8 Je '42

Abstracts of technical papers at AIEE winter convention. Elec Eng 61:42-7 Ja '42

American institute of electrical engineers, summer meeting; summaries of papers. Elec W 118:83-7 Jl 11 '42

American institute of electrical engineers winter meeting, New York, Jan. 26-31. Elec W 117:486-93 F 7 '42; Power Pl Eng 46:76-8 Mr '42

Audels handy book of practical electricity with wiring diagrams; ready reference for professional electricians, students and all electrical workers. F. D. Graham. 1434p $4 T. Audel & co, New York '42

Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:7-58 Ja '42

Electrical engineering in 1941. il Engineer 173:27-9, 46-9, 68-9 Ja 9-23 '42

Electrical engineers and the post-war period. C. L. Fortescue. Engineering 154:315-16, 338 O 16-23 '42; Same cond. Engineer 174:300-1, 312-14 O 9-16 '42; Abstracts. Elec R (Lond) 131:455-6 O 9 '42; Electrician 129:387-9 O 9 '42

Electricity simplified. E. De Ville. 220p $1.75 Ryerson press '40

Engineer's last in the postwar world. D. C. Prince. Elec Eng 61:393-6 Ag '42

Forrest E. Ricketts, 1941 Lamme medalist; with address by N. Stahl and response by F. E. Ricketts. il Elec Eng 61:396-401 Ag '42

Gaseous conductors; theory and engineering applications. J. D. Cobine. 606p bibliog(p503) $5.50 McGraw-Hill '41

How to read electrical blueprints. G. M. Heine and C. H. Dunlap. 318p $3 Am. technical soc, Chicago '42

Industrial electricity. C. L. Dawes. 2d ed pt 2 523p $2.75 McGraw-Hill '42

Lineman's handbook. E. Kurtz. 2d ed 652p $4 McGraw-Hill '42

New engineering and a new industry; rural-electrification engineering. M. M. Samuels. Elec Eng 61:517-20 O '42

Papers in electrical engineering. (Circ.172) pa 10c Lehigh univ, Bethlehem, Pa. '41

Progress in engineering knowledge during 1941. P. L. Alger. bibliog(256 titles) il diags Gen Elec R 45:82-119 F '42

Recent electrical engineering developments in the United States of America. A. E. Knowlton. Inst E E J 89 pt 1:279-85 Je '42

Solutions to some of today's industrial problems. il diags Gen Elec R 44:590-634 N '41

Technical progress during 1941. Electrician 128:59-64 Ja 30 '42

Theoretical and practical electrical engineering; comprising a course of lectures given at the Bliss electrical school upon the principles and applications of both direct and alternating current apparatus. L. D. Bliss. 5th ed 2v $8 Bliss electrical school, Washington, D.C. '41

Wartime electrical engineering. R. C. Muir. Gen Elec R 45:265-6 My '42; Same. Elec Eng 61:283-5 Je '42

See also

Armatures
Automobiles—Electric equipment
Commutators
Electric apparatus and appliances and other headings beginning Electric
Electricity
Electricity in mining
Electricity in the petroleum industry
Electricity on the farm
Electricity supply
Hydroelectric plants
Radio communication and other headings beginning Radio
Railroads—Electric equipment
Ship propulsion, Electric
Ships—Electric equipment
Telegraph
Telephone
Voltage regulation
Watt hour meters

Bibliography

Accessions to the library. Inst E E J 88 pt 1:434-5; 89 pt 1:167, 210 D '41, Ap-My '42

E.E.I. publications and promotional material. Edison Elec Inst Bul 10:318-19 Ag '42

Library section; recent articles and new books of interest to industry. Published in monthly numbers of General electric review

Dictionaries

Definitions of electrical terms. 300p $1; Am. standards assn. N.Y. '42; Review, by C. H. Sanderson. Ind Stand 13:114-16 My '42

Dictionary of electrical terms, including electrical communication. S. R. Roget. 4th ed rev & enl 432p $3 Pitman '41

Handbooks

American electricians' handbook; a reference book for practical electrical workers. T. Croft. 5th ed 1634p $5 McGraw-Hill '42

Lincoln's Industrial-commercial electrical reference. E. S. Lincoln. 1308p $15 Electrical modernization bur, 60 E. 42d st, New York '41

History

Early troubles of the power engineer; from an unpublished letter of the late Alex Dow. Edison Elec Inst Bul 10:333 S '42

Elihu Thomson. K. T. Compton. Science 95:285-9 Mr 20 '42

Engineering as an implement of management. H. B. Gear. Elec Eng 61:426-7 Ag '42

Entering the seventh decade of electric power. C. E. Neil. Edison Elec Inst Bul 10:321-32 S '42

History of electrical resonance. J. Blanchard. diags Bell System Tech J 20:415-33 bibliog (p431-3) O '41

Joseph Henry, pioneer in electrical science. H. S. Osborne. il Elec Eng 61:550-3 N '42

Safety measures

Electrical safety; importance of technical education. H. W. Swann. Electrician 127:253-4 O 31 '41

ELECTRIC engineering—Safety measures—*Continued*

Static electricity. F. B. Silsbee. U S Nat Bur Stand Circ C438:1-36 bibliog(p35-6) '42

See also

Electric equipment—Safety measures
Electric protective apparatus
Electric utilities—Safety measures
Electric wiring—Safety measures
Insulation (electric)
Linemen's equipment
National electrical code
National electrical safety code

also subdivision Protection under special headings, e.g. Electric lines—Protection; Electric motors—Protection; Electric transformers—Protection

Bibliography

Bibliography on electrical safety, 1930-1941. 16p 50c; to members 25c Am. inst. electrical engineers, 33 W. 39th st, New York '42

Study and teaching

College electrical laboratories; expanding field for safety education. M. S. Coover. il Nat Safety N 45:22-3, 94-7 My '42
Critical review of education and training for engineers. A. P. M. Fleming. Inst E E J 89 pt 1:376-88 S '42; Abstract. Elec R (Lond) 130:367-8 Mr 20 '42; Discussion. Inst E E J 89 pt 1:388-435 S '42; Elec R (Lond) 130:401-2, 625-6 Mr 27, My 15 '42; Electrician 128:280-2, 476-9 Mr 27, My 15 '42
Educational and training program at General Electric. A. R. Stevenson, jr., M. M. Boring and T. C. Johnson. bibliog Mech Eng 64:217-20 Mr '42
Evening courses at graduate levels; a challenge to colleges of engineering. R. Beach. Elec Eng 61:Trans 88-94 F '42
Interesting the electrical engineering student in engineering economy. R. C. Putnam. J Eng Educ 32:529-37 Mr '42
New curriculum in electrical engineering at Lehigh university. L. V. Bewley. J Eng Educ 32:434-51 Ja '42
Refresher programs at the graduate level in the postwar period; abstract. H. W. Bibber. Elec Eng 61:153-4 Mr '42
Statement of objectives for electrical engineering training. V. P. Hessler. J Eng Educ 32:542-7 Mr '42
Technical literature; how the lot of the student has improved since 1900. L. H. A. Carr. Electrician 129:391-2 O 9 '42; Abstract. Elec R (Lond) 131:459 O 9 '42
Training of engineers. H. W. Swann. Electrician 129:451-3 O 23 '42

See also

Electric communication—Study and teaching

Tables, calculations, etc.

Analysis of systems with known transmission-frequency characteristics by Fourier integrals. W. L. Sullivan. bibliog Elec Eng 61:248-56 My '42
Analytic approach to the hysteresis loop; using differential analyzer. C. N. Weygandt and S. Charp. diags Elec Eng 61:387-8 Jl '42
Analytical treatment for establishing load-cycle ratings of ignitrons. D. E. Marshall and E. G. F. Arnott. Elec Eng 61:Trans 545-8 Ag '42
Audels electrical power calculations, with diagrams. E. P. Anderson. 421p $2 Theo. Audel & co, New York '41
Controller resistances. W. de Renzi. diags Electrician 129:93-7 Jl 24 '42
Engineering mathematics; theory of complex numbers. R. Feinberg. diags Electrician 128:558-9 Je 5 '42
Fault current calculation. W. A. Mears. diags Electrician 129:33-7, 58-60, 84-7 Jl 10-24 '42
Formulas for calculating short-circuit stresses for bus supports for rectangular tubular conductors. T. J. Higgins. bibliog Elec Eng 61:Trans 578-80 Ag '42
Formulas for the inductance of rectangular tubular conductors. T. J. Higgins. bibliog diags Elec Eng 60:Trans 1046-50 D '41
Formulas for the magnetic-field strength near a cylindrical coil. H. B. Dwight. bibliog diags Elec Eng 61:Trans 327-33 Je '42
Graphical aid in multiplying and dividing complex numbers. D. C. Jackson. Elec Eng 61:104-5 F '42
Heaviside's direct operational calculus. J. B. Russell. Elec Eng 61:84-8 F '42
How to determine relaying quantities by use of sequence-segregating filters or networks; diagrams Elec W 117:2088-9 Je 13 '42
How to make voltage drop calculations for 60-cycle circuits. charts Elec W 117:2095 Je 13 '42
Integration in the complex plane. K. O. Friedrichs. Elec Eng 61:139-43 Mr '42
Laplacian transform analysis of circuits with linear lumped parameters. J. Millman. diags Elec Eng 61:197-205 Ap '42
Matrix theorem. A. Pen Tung Sah. Elec Eng 60:615-16 D '41
Network calculations; Thevenin theorem. T. F. Wall. diags Elec R (Lond) 129:501-3 N 7 '41; Discussion. 129:597-8; 130:627-8 N 28 '41, My 15 '42
1-phase from 3-phase systems. G. W. Stubbings. Electrician 129:223-4 Ag 28 '42
Power factor economics. G. W. Stubbings. Electrician 128:500-1 My 22 '42
Reactance and skin effect of concentric tubular conductors. H. B. Dwight. bibliog Elec Eng 61:Trans 513-18 Jl '42
Reduction of system power and energy losses by power-factor improvement. F. M. Starr. Gen Elec R 45:165-71 Mr '42
Response of a network to an arbitrary periodic driving force. E. W. Hamlin. Franklin Inst J 233:257-70 Mr '42
Simplified calculation of fault currents. Elec Eng 61:509-11 O '42
Skin effect formulas. J. R. Whinnery. Electronics 15:44-8 F '42
Stability of oscillations in systems obeying Mathieu's equation. J. G. Brainerd. Franklin Inst J 233:135-42 F '42
Star-mesh transformations; their relation to three-phase unbalanced power. G. F. Freeman. Electrician 128:36 Ja 16 '42
Surge propagation. T. F. Wall. diags Engineering 153:141-3, 181-2, 201-3, 261-3, 301-2, 341-2, 401-3, 461-3, 483-4; 154:121-3, 154-6, 281-3, 321-3 F 20, Mr 6-13, Ap 3, 17, My 1, 22, Je 12-19, Ap 14-21, O 9, 23 '42
Symmetrical components; analysis by vector notation. A. G. Powell. Elec R (Lond) 131:107-8 Jl 24 '42
Vector equations from laboratory data. E. A. Hertzler. Elec Eng 61:107-9 F '42
Zero sequence voltages. G. W. Stubbings. diags Electrician 129:110-12 Jl 31 '42

See also

Electric distribution—Tables, calculations, etc.
Electric transmission—Tables, calculations, etc.
Inductance
Thévenin theorem

Terminology

American Standard definitions of electrical terms. 311p $1 Am. inst. of electrical engineers, New York '42

ELECTRIC engineers

Electrical man-power; technical officers required: transfer of personnel. Elec R (Lond) 130:632 My 15 '42
Future of the Institution of electrical engineers and the electricity supply engineer. R. H. Rawll. Inst E E J 89 pt 1:98-101 F '42
General Electric's test men to report early for war work; abstract. M. M. Boring. Marine Eng 47:134 My '42; Same. Blast F & Steel Pl 30:678-9 Je '42

See also

American institute of electrical engineers
Illuminating engineering society

ELECTRIC engineers—*Continued*

Salaries

Power engineers' salaries; tax deduction restored. Elec R (Lond) 131:463 O 9 '42

ELECTRIC equipment

Depreciation of installations. S. H. Withey. Electrician 128:245-6 Mr 20 '42

Developments of 1941. G. Bartlett. il Mass Transportation 38:4-7 Ja '42

Electric equipment for large electrochemical installations. T. R. Rhea and H. H. Zielinski. bibliog il diags Elec Eng 61:Trans 733-41 O '42

Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:7-58 Ja '42

Housing extension limits set by WPB. Elec W News ed 117:1734 My 23 '42

How to select, install and maintain control equipment. E. H. Alexander. il Gen Elec R 45:387-91 Jl '42; Same. Marine Eng 47:144-8 Ag '42; Same. Aero Digest 41:217-18, 221+ S '42; Same. Eng & Min J 143:66-7 N; 71-2 D '42; Same cond. Food Ind 14:61-2 O '42; Same cond. Heating-Piping 14:597-9 O '42

Reference table of alternates and substitutes; electrical equipment and parts. Metals & Alloys 16:437 S '42

Review of power and mechanical equipment; motors, switches and other electrical equipment. il Power 85:959-65 Mid-D '41

Solutions to some of today's industrial problems. il diags Gen Elec R 44:590-634 N '41

See also

Electric apparatus and appliances
Electric cables
Electric control
Electric converters
Electric driving
Electric instruments
Electric lighting
Electric plants (central stations)—Equipment
Electric power
Electric wire
Electricity in mining
Switchboards
Thrusters

also subdivision Electric equipment under special subjects, e.g.

Air raid shelters
Automobiles
Canneries
Chemical plants
Coal mines and mining
Dairies
Factories
Metal working plants
Office buildings, Industrial
Public buildings
Quarries and quarrying
Railroads
Rolling mills
Ships

Maintenance and repair

Avoiding electrical control breakdowns helps maintain essential production. E. H. Alexander. il Chem & Met Eng 49:101-2 O '42

Caring for electrical equipment; Allis-Chalmers manufacturing co., Milwaukee. G. E. Cooper. il Factory Management 100:150-1+ Ag '42

Don't throw away anything but dirt; salvage and repair program for utilities. L. Ragle. il Elec W 117:2053-4 Je 13 '42

Electrical equipment, too, needs attention. Diesel Power 20:738+ S '42

Enemies of electrical equipment and how to combat them. Factory Management 100: insert O '42

General Electric expands training program. il Gen Elec R 45:468 Ag '42

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:121-32 O '42

Keep your welding machines welding. R. F. Wyer. il Steel 111:88, 90+ Jl 20 '42; Same. Welding J 21:449-53 Jl '42; Same. Aviation 41:133-6+ N '42; Same. Mach 49:155-61 D '42; Same cond. Gen Elec R 45:438-42 Ag '42; Excerpts. Eng & Min J 143:66-7 S '42

Maintenance in war-time; abstracts. S. W. Field. Electrician 129:8-10 Jl 3 '42; Elec R (Lond) 131:24 Jl 3 '42; Discussion. Electrician 129:29-30, 70-3 Jl 10-17 '42; Elec R (Lond) 131:79-81 Jl 17 '42

Maintenance of electrical equipment in steel plants. M. J. Wohlgemuth. il Steel 111:153, 156+ S 14 '42

Mobile demonstration unit aids farmers in maintenance of electrical equipment. C. E. Jeerings. il Edison Elec Inst Bul 10:344+ S '42

Reclamation and maintenance of electrical equipment. Oil & Gas J 41:45+ Je 4 '42

Reducing break-down rate. H. Greaves. Electrician 129:163-4 Ag 14 '42

War maintenance; electrical conductors, substations, locomotives, storage batteries, motors, controllers and breakers. il Coal Age 47:78-82, 91-3, 96-8, 105-10 O '42

War maintenance; electrical equipment, strip mines. il Coal Age 47:120-3 O '42

Manufacture

Better handling facilities reduce processing time; bonderizing steel enclosures for switchgear and control equipment; Westinghouse electric & mfg. co. il Steel 109: 85-6 D 1 '41

Using double sampling inspection in a manufacturing plant. D. B. Keeling and L. E. Cisne. Bell System Tech J 21:37-50 Je '42

War production at Rochester div. of General Motors; electrical equipment for tanks and aircraft. il Automotive & Aviation Ind 87:30-3+ S 1 '42

Safety measures

Barrier boards and scaffold promote safety. J. R. Steele. il diags Elec W 117:2225 Je 27 '42

Care of electric cords. il Safety Eng 84:36 Ag '42

College electrical laboratories; expanding field for safety education. M. S. Coover. il Nat Safety N 45:22-3, 94-7 My '42

Danger of electric shock from cords and its prevention. Comp Air M 47:6746 My '42

Electric equipment; keeping current under control. il Nat Safety N 45:115+ Mr '42

Electric extension cords; hazards and precautions. Nat Safety N 45:52, 54 Ja '42

Flameproof enclosure of electrical apparatus; certification. H. Rainford. Engineer 172: 312-13 N 7 '41; Same cond. Elec R (Lond) 129:471-2 O 31 '41

Glass door section prevents accidents; disconnects on "H" type breakers. R. M. Seitz. il Elec W 116:1906 D 13 '41

How to handle line and equipment clearances. Elec W 118:1140, 1298 O 3-17 '42

How to use bushing covers as safety devices. il diag Elec W 118:494 Ag 8 '42

Insulated platforms for switchmen. diag Nat Safety N 46:30 Ag '42

Jumpers make conduit connections safer. S. H. Coleman. diags Factory Management 100:124 My '42

Motorizing equipment in hazardous locations. C. W. Falls. il Chem & Met Eng 49:82-4 Ag '42

New ideas in motor control. M. A. Hyde. il Oil & Gas J 40:86-7+ Mr 26 '42

Safeguards high-potential meter tests by women. il diag Elec W 117:1871-2 My 30 '42

Shocks eliminated by 6-volt cords. Eng & Min J 143:49 Mr '42

Trucks and tractors for hazardous locations. il Nat Safety N 45:58+ My '42

See also

Insulation (electric)

Standards

Application of apparatus and conductors under various ambient-temperature conditions. R. E. Hellmund and P. H. McAuley. diags Elec Eng 61:Trans 553-8 Ag '42

Canadian standards association takes action for war; emergency measures as means of conserving steel, tin, zinc, brass, rubber, and other materials. Ind Stand 13:251 O '42

Co-ordination as a means to standardization. E. G. Taylor. Inst E E J 89 pt 1:77-80 F '42; Excerpts. Electrician 127:205-6 O 10 '41; Elec R (Lond) 129:374-5 O 10 '41

Electrical standards show active progress in 1941. il Ind Stand 13:13-19 Ja '42

List of inspected electrical equipment, May 1942. 492p Underwriters' laboratories, 207 E. Ohio st, Chicago '42

NEMA standardization of resistance weld and sequence timers. F. H. Roby. il diags Welding J 21:317-19 My '42

ELECTRIC engineers—Standards—*Continued*

New E.E.I. standard for splicing sleeves. diags Elec W 118:802 S 5 '42

Rationalization of colliery electrical equipment. J. A. B. Horsley. Inst E E J 89 pt 2: 121-4 Ap '42; Abstract. Elec R (Lond) 129: 673-4 D 12 '41; Discussion. Inst E E J 89 pt 2:124-8, 485-91 Ap, O '42; Elec R (Lond) 129:705-6 D 19 '41

Service standards for war housing defined. Elec W 117:2232 Je 27 '42

Standardisation of electrical equipment. Economist 141:664 N 29 '41

Standards for switchgear apparatus. Elec Eng 61:478-9 S '42

War-time problems of a company standards department; General electric company. L. F. Adams. Ind Stand 13:164-6 Je '42

Testing

Electrical analyzer for aircraft. J. Kuffler. il Instruments 15:208 Je '42

ELECTRIC eye. See Photoelectric cells—Control uses

ELECTRIC fans

Plastic replaces cast aluminum in fan blades. il Mach 48:159 D '41

Testing

Not the life of Riley; endurance testing of transformer cooling fans. E. V. DeBlieux. il Gen Elec R 45:221-2 Ap '42

ELECTRIC fans, Ventilating

Air circulators for large store; Lit brothers department store, Philadelphia. il Sheet Metal Worker 33:42+ My '42

Bases for sound insulation of fans and motors. il diags Sheet Metal Worker 33:102, 104+ Ja '42

Buffalo memorial auditorium. M. C. Beman. il Heat & Ven 38:15-17 D '41

Effect of attic fan operation on the cooling of a structure. W. A. Hinton and A. F. Poor. il diag plans Heating-Piping 14:244-50 Ap '42; Abstract. Sheet Metal Worker 33:52-4 My '42; Discussion. Heating-Piping 14:250-1 Ap '42

Fans, fan drives and control for vehicular tunnel ventilation. F. F. Kravath. diags Heat & Ven 38:38-42 N '41

Fans; their types, characteristics, and applications. C. G. Ferguson. il Engineer 173: 274-6, 294-6 Mr 27-Ap 3 '42

Fume control in foundries a vital wartime ventilation job. B. G. Silberstein. il plan Heating-Piping 14:659-60 N '42

Heat removal from factories; Ilg power roof ventilators. il Sheet Metal Worker 33:36+ Ag '42

Tank ventilating power costs cut by low velocity systems. W. B. Harris. diags Heat & Ven 39:42-5 Jl '42

ELECTRIC field

Coating by the electric spray method. H. Ransburg. Metal Finishing 40:621-3 N '42

Effect of strong electric fields on the radiochemical decomposition of gaseous ammonia. M. J. McGuinness, jr. and H. Essex. diag Am Chem Soc J 64:1908-11 Ag '42

Electric and magnetic effects of cosmic rays. F. Evans. bibliog Phys R 61:680-3 Je 1 '42

Electric fields in interstellar space. F. Evans. Phys R 60:911 D 15 '41

Electrode shaping to establish a uniform electric field along high voltage resistors. P. Shallcross. diags Franklin Inst J 233: 471-84 My '42

Electron emission of metals in electric fields; the transition from thermionic to cold emission. E. Guth and C. J. Mullin. bibliog Phys R 61:339-48 Mr 1 '42

Graphite coatings for electrostatic screening. Engineering 153:178 F 27 '42

Instrument for measuring electrical field strength in strong high frequency fields. K. S. Lion. bibliog diags R Sci Instr 13: 338-41 Ag '42

Molecules wriggle in electric field; abstract. R. M. Fuoss. Pulp & Pa of Can 43:48 Ja '42

Photophoresis and its interpretation by electric and magnetic ions. F. Ehrenhaft. Franklin Inst J 233:235-56 bibliog(p254-6) Mr '42

Physics of a transmission line. W. M. Thornton. bibliog Inst E E J 88 pt 2:561-7 D '41

ELECTRIC filters

Band pass and band rejection filters. H. Holubow. diags Electronics 15:54-6 Ag '42

Electrical and mechanical analogies. W. P. Mason. diags Bell System Tech J 20:405-14 O '41

Electromechanical transducers and wave filters. W. P. Mason. 333p $5 Van Nostrand '42

How to determine relaying quantities by use of sequence-segregating filters or networks; diagrams. Elec W 117:2088-9 Je 13 '42

Measurement of torsional vibrations. R. Stansfield. Engineering 154:179-80, 198-200 Ag 28-S 4 '42; Same abr. Engineer 174: 101-2 Jl 31 '42

See also

Radio filters

ELECTRIC fires

By close sealing, electric fire is held within confines of a single roadway. R. H. Nicholas. diags Coal Age 47:68-9 Ag '42

Electricity and fire risk. Electrician 128:311-12 Ap 3 '42

Electricity and fire risk. C. S. Lyon. Electrician 129:354-5 O 2 '42

Fighting power plant fires. W. E. Rossnagel. il diag Power 86:259-61 Ap '42

Fires in switch houses. S. York. diags Elec R (Lond) 129:699-702 D 19 '41

Flaming fluids. G. M. Kintz. Nat Safety N 45:72-5 F '42

Hazards due to electric shock transmitted across discharge spray of compressed carbon dioxide. R. L. Grant. bibliog pls diag U S Bur Mines Rep of Invest 3656:1-7 '42

Stop electrical fires. W. MacLachlan. il Safety Eng 82:6-10 D '41

ELECTRIC fittings

Conduits and fitting joints. Electrician 129: 265-6 S 11 '42

Plastics competition award to Pierce laboratory, inc. il Mod Plastics 19:64-5 N '41

Wartime wiring will cut costs and promote safety; porcelain insulated wiring system saves many tons of steel, copper, rubber. il Am Bld 64:86+ Ap '42

ELECTRIC flashlights

Rating

Flashlights. il Consumers' Research Bul 9: 13-17 My '42

ELECTRIC furnaces

Design and operation of an electric loadtest furnace. M. S. Nelson and R. R. Ralston. bibliog il diags Am Cer Soc J 25:112-16 F 15 '42

Electric arc furnace. T. F. Wall. diags Engineer 174:175-7, 188-91, 216-18, 228-30 Ag 28-S 18 '42

Electric furnace progress; abstracts. V. O. Cutts. Elec R (Lond) 129:636-7 D 5 '41; Electrician 127:323-4 D 5 '41

Electric resistance hearths; some developments in alloys for use as elements. Electrician 128:200-2 Mr 6 '42

Grinding wheels; composition of abrasives from electric furnaces. A. G. Arend. il Elec R (Lond) 131:391-2 S 25 '42

Phosphorus furnace reactions. C. P. Zergiebel and J. W. Lucas. Electrochem Soc Trans 81 (preprint 30):439-44 Ap '42; Same. Can Chem & Process Ind 26:519-21 S '42; Abstract. Chem & Met Eng 49:159-61 D '42

Role of induction heating in war production. F. T. Chestnut. il diag Mech Eng 63:861-4 D '41; Same. Metals & Alloys 14:851-5 D '41

Technical progress during 1941. H. A. Sieveking. Electrician 128:60 Ja 30 '42

Transverse testing furnace; electric furnace for determining the transverse strength of 9-in. brick to temperatures as high as 1500°C. J. C. McMullen. il diags Am Cer Soc J 25:389-90 S 1 '42; Abstract. Brick & Clay Rec 100:39 My '42

See also

Electric heating

Electric heating, Industrial

ELECTRIC furnaces—*Continued*

Safety measures

Electric furnace control; abstracts. W. F. Cooper. Elec R (Lond) 130:273-4 F 27 '42; Electrician 128:166-7 F 27 '42

ELECTRIC furnaces, Annealing

Industrial heating; annealing furnaces in cartridge-case production. il Elec R (Lond) 130:583-7 My 8 '42

ELECTRIC furnaces, Forging

Resistance heating for forging. A. F. Macconochie. il Steel 110:64-5+ Je 15 '42

ELECTRIC furnaces, Foundry

Capacitors increase capacity of metal casting shop. L. M. Duryee. il Elec W 117:341 Ja 24 '42

Electricity and steel; Canadian foundry produces high alloy castings. il Electrician 129:411-12 O 16 '42

ELECTRIC furnaces, Heat treating

Controlled oil quenching. diag Chem Age (Lond) 46:127-8 Mr 7 '42

Electric furnaces for non-ferrous heat treatment; abstract. J. E. Oram. Metals & Alloys 15:668, 670 Ap '42

Electric heat-treatment ovens. diag Electrician 127:291-2 N 21 '41

Electric salt bath treatment of aluminum aircraft alloys. C. Santore. il Metals & Alloys 15:254-5 F '42

Electrical developments of 1941; industrial heating. G. Bartlett. il Gen Elec R 45:27 Ja '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74, 76+ Mr 16 '42

Falcon electric muffle furnace. il Mach 48:165 Ag '42

General Electric electrode-type salt-bath tool-hardening furnaces. il diags Engineering 154:27-8 Jl 10 '42

Heat-treated parts for Lockheed interceptors; General Electric cylindrical electrical furnaces for hardening and drawing. il Aviation 41:184 Jl '42

Heat treating tubular airplane parts. il Iron Age 149:52 Mr 19 '42

Heat treatment; furnace applications in an engineering works. il Elec R (Lond) 131:417-19 O 2 '42

How to combine copper brazing and heat-treating into a continuous process. H. M. Webber. il diags Gen Elec R 44:593-4 N '41

Longer life from salt-bath electrodes. R. L. Pegram. diag Am Mach 86:882-3 Ag 20 '42

New electric furnaces for heat treating. C. L. Ipsen. il diag Steel 110:66, 68 Mr 30 '42

Resistance furnaces. V. O. Cutts. il diags Elec R (Lond) 130:555-7 My 1 '42

Shell for British 75-mm. guns; S. A. Woods machine company. L. E. Blood. il Am Mach 85:1221-4 N 26 '41

Stress-relief furnace has automatic cycle control. il Steel 111:86 N 2 '42

Trend to salt baths. Am Mach 86:46-7 Ja 8 '42

Where should heat-treating heat go? how salt bath furnaces can be designed to control its distribution. diags Steel 110:92+ My 11 '42

Atmosphere control

Controlled atmosphere in electric furnace. il Elec W 117:1366 Ap 18 '42

Heat treating for airplane parts. il Elec West 89:37 Jl '42

Heat treating, 1941 and current trend. L. C. Conradi. il Metals & Alloys 15:54-5 Ja '42

ELECTRIC furnaces, High frequency

High-frequency induction furnace. T. F. Wall. diags Engineer 173:209-11, 223-5, 242-3 Mr 6-20 '42

Instrument requirements for high-frequency power applications. L. J. Lunas. il diags Instruments 14:392-3+ D '41

ELECTRIC furnaces, Laboratory

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:700-3 S '42

Effect of normal elements and alloy elements on the rate of austenite transformation in cast iron at constant temperature. C. Nagler and W. P. Wood. il diags Am Soc for Metals Trans 30:491-512; Discussion. 512-15 Je '42

Halogen in organic compounds; determination by means of a simply constructed furnace. P. J. Elving and W. B. Ligett. il diags Chem Age (Lond) 67:265-6 S 19 '42

New electric reverberatory roasting furnace. il diags Eng & Min J 143:43 Mr '42

Resistor furnace, with some preliminary results up to 2,000° C. R. F. Geller. bibliog diags J Research Nat Bur Stand 27:555-66 D '41

Rotating induction furnace; laboratory studies of slag-metal reactions. F. W. Scott and T. L. Joseph. il diags Metals & Alloys 15:414-19 Mr '42

ELECTRIC furnaces, Metallurgical

Electric arc furnace. T. F. Wall. diags Engineer 174:175-7, 188-91, 216-18, 228-30 Ag 28-S 18 '42

Electric furnace for smelting manganese ores; U.S. Bureau of mines, Salt Lake City; utilization data sheet. il Elec West 89:45 Jl '42

New electric reverberatory roasting furnace. il diags Eng & Min J 143:43 Mr '42

Production of tungsten; electro-thermal methods reviewed. il diag Electrician 128:472-5 My 15 '42

Refining pig iron in the electric furnace; abstract. E. Berg. Metals & Alloys 16:488 S '42

Resistance furnaces. V. O. Cutts. il diags Elec R (Lond) 130:555-7 My 1 '42

See also

Electric furnaces, Heat treating

Electric furnaces, Steel making

Atmosphere control

Solubility of iron oxide in liquid iron. J. Chipman and K. L. Fetters. bibliog diag Am Soc for Metals Trans 29:953-67; Discussion. 967-8 D '41

Lining

Rammed linings for small electric furnaces. H. C. Fisher. il diags Metal Prog 41:187-91 F '42

ELECTRIC furnaces, Non-ferrous melting

Ajax-Wyatt low frequency induction heating furnace. diag Iron Age 149:57 My 28 '42

Brass making; extensive use of induction melting furnaces. il Elec R (Lond) 131:355-60 S 18 '42

Glass fiber insulation used for brass furnace. Iron Age 150:39 S 24 '42

Low-frequency melting; Ajax-Wyatt furnace. diag Electrician 128:618 Je 19 '42

ELECTRIC furnaces, Steel making

Arc furnace refining slags; abstract. N. F. Dufty. Metals & Alloys 15:1012+ Je '42

Convert 25-cycle steel furnaces to 60. L. V. Black. Elec W 116:2063-4 D 27 '41

Electric arc furnace. T. F. Wall. diags Engineer 174:188-91, 216-18 S 4-11 '42

Electrical circuit for carbon combustion furnaces. E. T. Saxer. il diag Blast F & Steel Pl 30:246-7+ F '42

Electricity and steel; Canadian foundry produces high alloy castings. il Electrician 129:411-12 O 16 '42

Experiments with the low-frequency furnace of Rohn; abstract. A. Niedenthal and H. Wentrup. Metals & Alloys 15:132 Ja '42

More electric furnaces make more quality steel. H. H. Watson. Metal Prog 42:593 O '42

Production of uniform steel for a light castings foundry. C. H. Kain and L. W. Sanders. Engineer 174:38-40 Jl 10 '42; Same cond. Iron Age 150:101-2+ O 1 '42

Rotating induction furnace; laboratory studies of slag-metal reactions. F. W. Scott and T. L. Joseph. il diags Metals & Alloys 15:414-19 Mr '42

ELECTRIC furnaces, Steel making—*Continued*

Some recent trends in steel manufacture. G. A. V. Russell. Engineering 153:178 F 27 '42

Steelworks plant; the influence of mechanical handling. il Elec R (Lond) 131:3-6 Jl 3 '42

Temperature distribution in the liquid steel in various steel-making furnaces. D. A. Oliver and T. Land. il diags Blast F & Steel Pl 30:997-1002 S '42; Same. Iron & Steel Inst J 145:245-59, pl 25 no 1 '42; Excerpts. Elec R (Lond) 130:654-5 My 22 '42; Discussion. Iron & Steel Inst J 145:260-77 no 1 '42

Control

Control method for electric arc furnaces. T. B. Montgomery. il diags Steel 111:145, 148, 150+ S 14 '42

Method for the control of electric arc furnaces. T. B. Montgomery. il diags Blast F & Steel Pl 30:861-8 Ag '42

Lining

Electric steel plant refractories. J. H. Chesters. bibliog il diags Iron Age 149:37-43+ Mr 5; 53-9 Mr 12 '42

ELECTRIC fuses

Boric-acid fuse limits fault current. diag Elec W 117:674 F 21 '42

Coordinated fusing plus spill gaps give service continuity. C. N. Teed and J. F. Servis. il diag Elec West 88:37-9 Mr '42; Discussion. 88:99 Je '42

Co-ordinating network fuses and limiters. T. Braaten. il diags Elec W 117:811-13 Mr 7 '42

Fuse has trip-pin to open breaker. diag Elec W 117:309-10 Ja 24 '42

Fuses for overload protection. Elec West 88:58 Ja; 89 F '42

Fuses set at angle are safer to service. il Elec W 117:2238 Je 27 '42

Fuses vs. thermal circuit breakers for low-voltage motor starters. W. G. Taylor. il Oil & Gas J 41:56, 58-9 Ag 27 '42

Fusing currents. W. T. Maccall. Electrician 129:218-19 Ag 28 '42

Fusing currents; their values for copper and aluminium wires. L. P. Dudley. bibliog Electrician 128:5-7 Ja 2 '42

Fusing practice reported by Pennsylvania utilities. D. S. Roush. Elec W 118:1265-7 O 17 '42

Henley loop-in service fuse for outdoor installation. diag Electrician 128:621-2 Je 19 '42

High-rupturing-capacity cartridge fuse, with special reference to short-circuit performance. J. W. Gibson. diags Inst E E J 88 pt 2:2-24 bibliog(p 19-20) F '41; Discussion. 88 pt 2:24-40, 593-9 F, D '41

High-rupturing-capacity devices; abstracts. J. R. Blandford. Elec R (Lond) 130:338-9 Mr 13 '42; Electrician 128:224-5 Mr 13 '42

High rupturing-capacity fuses. Engineering 154:152 Ag 21 '42

High-voltage fusing of transformer banks. H. H. Marsh, jr. and G. B. Dodds. diag Elec Eng 61:Trans 533-5 Jl '42

High-voltage, high-rupturing-capacity cartridge fuse and its effect on protection technique; abstracts. K. Dannenberg and W. J. John. Electrician 128:363-4 Ap 17 '42; Elec R (Lond) 130:499 Ap 17 '42; Discussion. Electrician 128:400-1 Ap 24 '42

Low oil level causes fuse outages. H. R. West. Elec W 117:96 Ja 10 '42

Modern distribution fuse links. G. F. Lincks. diag Power Pl Eng 46:55-7 Ag '42

Progress in engineering knowledge during 1941; circuit breakers and fuses. P. L. Alger. bibliog Gen Elec R 45:97-9 F '42

Slide rule yields primary fuse sizes. J. B. Hodtum. il Elec W 118:1482+ O 31 '42

Some problems encountered on a distribution system, with special reference to Shanghai. V. Sia. il diags Inst E E J 89 pt 2:145-8 Ap '42

Temperature coordination of relays and fuses. M. R. Howell. Elec W 118:72-4 Jl 11 '42

Thermal co-ordination of motors, control, and their branch circuits on power supplies of 600 volts and less. B. W. Jones. Gen Elec R 45:273-9 My '42; Same. Elec Eng 61:Trans 483-7 Jl '42

Transformer protection timed for secondary faults. B. O. Watkins. Elec W 116:1882-4 D 13 '41

ELECTRIC generator sets

Automatic stand-by power equipment speeds machining of gears. il Blast F & Steel Pl 30:1015 S '42; Same. Iron Age 150:57 N 12 '42

Emergency power supply for continuous machining; DeLaval turbine co. H. M. Martin. il diag Power Pl Eng 46:82-3 N '42

Mobile power unit for emergency needs. il Eng N 129:560 O 22 '42

ELECTRIC generators

Electrical developments of 1941; power generation. G. Bartlett. il diags Gen Elec R 45:8-11 Ja '42

Generator of 1906 put to work as condenser. Elec W 117:1851 My 30 '42

Modern impulse generators for testing lightning arresters. T. Brownlee. bibliog il diags Elec Eng 61:Trans 539-44 Ag '42

Testing with lightning bolts; Westinghouse laboratories. A. P. Peck. il Sci Am 166:171-3 Ap '42

See also

Armatures

Cyclotron

Electric machinery

Electric plants

Hydroelectric plants

Power plants

Vacuum tubes—Generating action

Control

New high-speed generator regulator. diags Elec W 117:2090+ Je 13 '42

Water level regulates generator load; Grandfather Falls hydroelectric plant. diag Elec W 117:1702 My 16 '42

Failure

Lightning causes two generator burnouts. il Locomotive 44:46-8 Ap '42

Protection

Critical analysis of rotating machine grounding practice. H. A. Peterson. Gen Elec R 45:215-20 Ap '42

Field testing of generator insulation. bibliog il diag Elec Eng 60:Trans 1003-11 D '41; Same. Edison Elec Inst Bul 10:25-32+ Ja '42

Repair

Arc-fused field coil repaired in 5 days. diags Elec W 117:1862 My 30 '42

Machining on job saves time; repairing generator shaft by grinding. il Power Pl Eng 46:65 Ap '42

Saved time by machining rotor shaft in place. il Factory Management 100:132+ S '42

Shaft repaired with metal spray. L. E. Kunkler. il Power 86:269-70 Ap '42

Two days machining; generator on job again. Steel 110:96 Mr 9 '42

Tables, calculations, etc.

Loss-of-field protection for generators. B. C. Crossman, H. F. Lindemuth and R. L. Webb. il diag Elec Eng 61:Trans 261-6 My '42

Testing

Progress report of d-c testing of generators in the field. E. R. Davis and M. F. Leftwich. il diags Elec Eng 61:Trans 14-18 Ja '42

Windings

Field testing of generator insulation. bibliog il diag Elec Eng 60:Trans 1003-11 D '41; Same. Edison Elec Inst Bul 10:25-32+ Ja '42

Modernization raises capacity. il Elec W 118:487 Ag 8 '42

ELECTRIC generators, Alternating current

Alternating current in the United States navy. H. G. Rickover. il Elec Eng 61:289-302 Je '42

Herkimer, N.Y. municipal system adds 3000 kw. il plans Power Pl Eng 46:51-2 Ag '42

How to connect controls, meters and relays for a.c. generators. diag Elec W 117:1698 My 16 '42

ELECTRIC generators, Alternating current—*Continued*

Oversize bus for 108,000-kw. generators; Grand Coulee. il Elec W 117:1206+ Ap 4 '42

Production testing of aircraft engines; power equipment. C. A. Chayne. il plan Power Pl Eng 46:102-4 My '42

Save time by machining turbine shaft in position; using 25-cycle power to motor a 60-cycle generator at low speed. F. I. Morgan. il Power 86:390-1 Je '42

Turbo-generator installation in a brewery. il diags plan Engineer 173:201-4 Mr 6 '42

Control

Automatic voltage regulators improve kilowatt quality. A. M. Shong. il diag Power 86:229-30+ Ap '42

Direct-acting regulators on large Georgia generators. J. T. Logan. il diag Elec W 117:1494-6 My 2 '42

Some problems connected with steam turbine governing. G. W. Higgs-Walker. diags Inst Mech Eng J & Proc 146:Proc 117-25 Ja '42

Cooling

Hydrogen cooling used for induction heating generator. il Iron Age 148:47 D 11 '41

Hydrogen for high-frequency cooling. il Power 86:107-8 F '42

Design

Theory of the inductor alternator. J. H. Walker. bibliog diags Inst E E J 89 pt 2:227-41 Je '42

Protection

A.c. generator insulation testing progresses. L. W. Smith. il Elec W 118:607-9 Ag 22 '42

Loss-of-field protection for generators. G. C. Crossman, H. F. Lindemuth and R. L. Webb. il diag Elec Eng 61:Trans 261-6 My '42

Windings

Blown generator coils show corona cutting. H. A. Knutsen. il diag Elec W 117:530 F 7 '42

Pre-wound stators cut losses in older units. B. H. Smith. il Elec W 118:74-5 Jl 11 '42

ELECTRIC generators, Direct current

Acceleration-oscillogram method of motor-torque measurement. C. R. Atkinson and E. G. Downie. Elec Eng 61:Trans 7-9 Ja '42

Aviation radio course; study of aircraft generators. P. W. Karrol. il diags Radio N 28:22-3, 58-61 Jl '42

Commutation; theories, faults and remedies. diags Electrician 128:111-13, 163-4 F 13, 27 '42

Currents in d.c. armatures. Electrician 128:185-7 Mr 6 '42

Development of the direct-current dynamo. J. S. Scott. Inst E E J 89 pt 1:143-6 Mr '42

D-c oil well drill rig on skids. L. D. Banderob and P. L. Savage. il diag Elec West 89:51-2 O '42

Dynamo operation; causes of excitation troubles. diags Elec R (Lond) 130:789-91 Je 19 '42

Electric drive characteristics. G. M. Woods. Bus Transportation 21:76-7 F '42

Modern electrical equipment for industrial Diesel-electric locomotives. L. Greer. il diag Elec Eng 61:Trans 229-32 Ap '42; Same cond. Diesel Power 20:210-11+ Mr '42

Multi-field pilot generator gives all-automatic motor regulation. C. W. Drake. il diags Product Eng 13:521-3 S '42

Practical radio course; generators. A. A. Ghirardi. diags Radio N 28:37+ Ag '42

Progress in design of electrical equipment for large Diesel-electric locomotives. G. F. Smith. Elec Eng 61:Trans 130-1 Mr '42; Same cond. Ry Age 112:338 F 7 '42

Review of the direct-current compound generator as used aboard ship. H. A. de Bonneval. diags Marine Eng 47:115-19 Mr '42

Control

Voltage stabilizer for a direct-current generator. W. M. Schwarz. diag R Sci Instr 13:213-14 My '42

ELECTRIC generators, Electrostatic

Design of the Minnesota electrostatic generator. J. H. Williams, L. H. Rumbaugh and J. T. Tate. il diags R Sci Instr 13:202-7 My '42

Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41

Non-metal shields; colloidal graphite films. B. H. Porter. Electronics 15:33+ Ap '42

ELECTRIC generators, Synchronous

Equivalent circuit of the salient-pole synchronous machine. G. Kron. diags Gen Elec R 44:679-83 D '41

Short circuits in synchronous-machine armatures. R. A. Galbraith. bibliog Elec Eng 60:Trans 1024-9 D '41

Tables, calculations, etc.

Correction for saturation. T. C. McFarland. Elec Eng 61:Trans 233-5 My '42

Damper circuits and rotor leakage in the transient performance of saturated synchronous machines. R. Rüdenberg. diags Franklin Inst J 234:39-61 Jl '42

Saturated synchronous machines under transient conditions in the pole axis. R. Rüdenberg. bibliog diags Elec Eng 61:Trans 297-306 Je '42

ELECTRIC hammers

Electrically-driven hammer mechanisms. diags Product Eng 13:452-3 Ag '42

ELECTRIC hardening. See Case hardening—Electric hardening

ELECTRIC heaters

Factory heating; localised units. il Automobile Eng 32:162 Ap '42

See also

Electric furnaces
Electric stoves
Electric water heaters

ELECTRIC heating

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Domestic thermal load. P. Schiller. Elec R (Lond) 130:9-10 Ja 2 '42

Electrical heating; modern installation in mechanical maintenance shop. il Electrician 128:585 Je 12 '42

Heating by reversed refrigeration. R. D. Heitchue. il diags Elec Eng 61:556-60 N '42

School heating. il Elec R (Lond) 131:259-62 Ag 28 '42

Some problems in the application of electric heating to residential and commercial premises. W. Gilchrist. Electrician 128:71-2 Ja 30 '42; Abstract. Elec R (Lond) 130:78 Ja 16 '42; Discussion. 130:115-16 Ja 23 '42

Space heating by means of electrically warmed floors, as applied to surface-type air-raid shelters; with cost data. R. Grierson. plan Inst E E J 89 pt 2:4-34 F '42; Discussion. 89 pt 2:34-44, 242-8 F, Je '42

Warm-air heat for music shell; electric system; Edward Hatch memorial music shell, Boston. il diags Sheet Metal Worker 33:96, 98+ Ja '42

See also

Boilers—Electric heating
Electric heaters
Electric heating elements

Cost

Special heat supply for an invalid's room. diag Consumers' Research Bul 9:26-7 Mr '42

ELECTRIC heating, Industrial

Application of electricity to the annealing of glass bottles and containers. E. S. Morris. diags Inst E E J 89 pt 2:355-66 Ag '42; Discussion. Electrician 128:171-2 F 27 '42; Inst E E J 89 pt 2:366-8 Ag '42

Application of vacuum tube oscillators to inductive and dielectric heating in industry. J. P. Jordan. il diags Elec Eng 61:Trans 831-4 N '42; Excerpts. Elec W 118:1136+ O 3 '42

Black heat speeds clay screen. D. Atkinson. il Elec West 87:56 N '41

Cold weather ore and coal handling safeguarded by electric strip heaters. M. Greenler. diags Steel 110:82+ Mr 16 '42

ELECTRIC heating, Industrial—*Continued*
Electric energy for drying grass. Elec W 117:1036 Mr 21 '42
Electric heat aids in applying hot-melt; for applying thermoplastic solution (cellulose acetate) to paper. il Elec W 117:510 F 7 '42
Electric heat removes paint, putty, without damage. Sci Am 165:342 D '41
Electric heat speeds product washing. il Elec W 118:976+ S 19 '42
Electric heat units improve brick finish. il Elec W 117:2106 Je 13 '42; Same. Brick & Clay Rec 101:42 S '42
Electric resistance brazing of switch parts. il Steel 110:85 F 23 '42
Electric soldering; survey of methods. S. F. Philpott. diags Elec R (Lond) 129:691-3 D 19 '41
Electric tool tipper. il Engineer 173:168-9 F 20 '42
Electrical brazing machine for carbide-tipped tools. il Engineering 153:126 F 13 '42
Electrical heating unit used in shell production. il Mach 48:180 F '42
Electrically heated screens prevent clogging of mesh, speed production. il Brick & Clay Rec 101:18-19 Jl '42
5500 parts present special handling task; assembly of self-contained induction heating units. A. J. Byerly. il plan Steel 110: 88, 90, 93 Mr 2 '42
Heat-treated television; electric heater protects antenna. il Gen Elec R 44:696 D '41
Heating by high-frequency induction. Electronics 15:142-3 Je '42
Heating by short wave. il Mod Plastics 20:79 O '42
Heating units remove aircraft skin wrinkles. il Iron Age 150:55 S 10 '42
High-frequency heat used to make plywood. il Elec W 117:2240+ Je 27 '42
Hop picking and drying; electrical methods. il Elec R (Lond) 130:461-3 Ap 10 '42
How to produce surface hardened steel parts; high-frequency induction heating and quenching; production of crankshafts, pins, sprockets, etc. W. E. Benninghoff. il Gen Elec R 44:609-10 N '41
Immersion units up fuel oil temperature. il Elec W 116:1593 N 15 '41
Induction brazing in ordnance work. W. E. Benninghoff. il Steel 109:58+ D 29 '41
Induction brazing 75 mm. shell adapters. Iron Age 149:52 Mr 5 '42
Induction hardening. il Automobile Eng 32: 101-2 Mr '42
Induction hardening saves copper; rocker arm shafts, automobile engines. il Iron Age 149:37 Ja 15 '42
Induction heating. H. B. Osborn, jr. diag Product Eng 13:261 My '42
Induction heating brazes 300 pieces an hour. il Iron Age 150:62 Ag 27 '42
Induction heating for aircraft production. J. W. Cable. il diag Aviation 41:127-8 Ag '42
Industrial heating; production of roofing felt. il Elec R (Lond) 129:391-4 O 17 '41
Industrial uses of radiant heating. R. Quarendon. il Engineer 173:531-3 Je 26 '42
Infra-red baking. H. Seymour. Electrician 129:200-4 Ag 21 '42
Infra-red developments speed war production. P. H. Goodell. il diag Elec W 118:80-2 Jl 11 '42
Infrared radiant heating. F. M. Tiller and H. J. Garber. bibliog il Ind & Eng Chem 34:773-81 Jl '42
Infra-red radiation and equipment. R. Maxted. Electrician 127:351-2 D 19 '41
Infra-red radiation for industrial heating. E. E. Halls. Can Chem & Process Ind 25:650 D '41
Ingenious cleaning; Calrod heater installed in second-hand washing machine; Koch manufacturing company. il Gen Elec R 45:594 O '42
Metallurgical control of induction hardening. F. F. Vaughn, V. R. Farlow and E. R. Meyer. il Am Soc for Metals Trans 30: 516-38; Discussion. 538-40 Je '42
Military applications for organic finishes; infrared drying. T. P. Cusack, jr. il diags Metal Finishing 40:499-501, 503-4 S '42
New tool shows how to save 5700 tons of steel; Tocco process hardens slugs for ball mills. H. B. Osborne. Steel 111:121 N 2 '42
New uses of induction heating; melting, heat-treating, forging and brazing among the many uses. R. LeGrand. il diags Am Mach 86:1079-81, 1158-61 O 1-15 '42
New way of making cap screws saves metal; Tocco process of induction heating. Steel 110:100 My 18 '42
Novel fixture for continuous hardening; valve tappet ends, induction hardened. il Iron Age 149:72 Ap 2 '42
Paint drying, auto body repairing; utilization data sheet. L. E. Stairet. il Elec West 87:36 D '41
Pre-assembly painting eliminates need for masking, saves 16 manhours in finishing induction heating machines. A. Pittaway. il Steel 111:66 Jl 27 '42
Principles and metallurgy of induction heating. A. F. Macconochie. il diags Steel 110: 102, 104+ Ap 13 '42
Progress in engineering knowledge during 1941. P. L. Alger. bibliog diag Gen Elec R 45:113 F '42
Radiant heat and its application. J. D. Hall. diags Paper Tr J 114:35-9 Mr 5 '42
Radiant heat in industry. Electrician 128:70 Ja 30 '42
Radio frequency heating speeds plywood bonding. il Electronics 15:79 N '42
Raise shell output with inductive heat. il Elec W 118:824 S 5 '42
Resistance heating for forging. A. F. Macconochie. il Steel 110:64-5+ Je 15 '42
70,000 tappets hardened daily in one induction heating machine. Mach 48:121 My '42
Short wave induction heating employed to dry plywood. il Elec West 89:46-7 Ag '42
Silver alloy brazed on copper castings. Elec W 117:1032+ Mr 21 '42; Same. Gen Elec R 45:302 My '42
Tractor parts rapidly hardened by induction. E. F. Cone. il Metals & Alloys 14:687-91 N '41
Treating plant for heavy oil production; electric dehydrating units. W. A. Sawdon. flow diag il Pet Eng 14:25-6 O '42
Truly automatic hardening and brazing at high speed. W. E. Benninghoff. Metal Prog 42:600-1 O '42
Unit electric heater used to dry bearings. il Elec W 116:1912 D 13 '41
Warren electric fuel-oil preheater. diag Diesel Power 20:491-2 Je '42

See also
Electric furnaces
Electric furnaces, Heat treating
Electric water heaters
Electric welding
Kilns—Electric heating

ELECTRIC heating elements
Electric resistance hearths; some developments in alloys for use as elements. Electrician 128:200-2 Mr 6 '42
Electrical circuit for carbon combustion furnaces. E. T. Saxer. il diag Blast F & Steel Pl 30:246-7+ F '42
Nichrome wire substitute in brooder coils. Elec West 89:63 Jl '42

ELECTRIC hoists. See Hoisting machinery, Electric; Mine hoisting, Electric

ELECTRIC home and farm authority
Electric home and farm authority ended. Comm & Fin Chr 156:1444 O 22 '42

ELECTRIC hotbeds. See Hotbeds, Electric

ELECTRIC ignition
Automatic ignition for gas appliances. R. M. Conner. il Am Gas Assn Mo 24:116-18 Mr '42
Dielectric igniters for mercury pool cathode tubes; use made of ability of glass to withstand increased potential gradients as thickness is decreased. H. Klemperer. bibliog il diag Electronics 14:38-41 N '41
Electrical ignition of the spectrographic arc. F. G. Brockman and F. P. Hochgesang. diags Ind & Eng Chem Anal ed 14:796 O 15 '42

ELECTRIC inductance. See Inductance

ELECTRIC industries
Recording of orders. S. H. Withey. Electrician 129:145-6 Ag 7 '42

ELECTRIC industries—*Continued*

Serving civilian needs in the present emergency. S. P. Vecker. Edison Elec Inst Bul 10:310+ Ag '42

See also

Electric apparatus and appliances—Merchandizing
Electric apparatus industry
Electric utilities
Electrometallurgy
Electroplating
Radio apparatus industry
also General cable corporation

Advertising

Pleasing with ads. K. Hampton. Elec West 89:58 Ag '42

See also

Electric apparatus industry—Advertising
Electric utilities—Advertising
Lighting, Industrial—Advertising

Finance

See also

Electric utilities—Finance

History

2,000,000 documents upon microfilm; story of the electrical industry's growth since the early 1880's at the Westinghouse East Pittsburg works. il Am Phot 36:23 S '42; Same cond. Power Pl Eng 46:81 S '42; Same cond. Steel 110:101 Je 15 '42

Materials

Alternate materials for industrial reflectors. E. H. Robinson. Elec W 118:1446-7 O 31 '42

Alternate materials in product design. P. H. Brace and W. M. Layton. il Metals & Alloys 15:73-6 Ja '42

Cobalt-nickel deposition. C. C. Downie. Elec R (Lond) 131:11-12 Jl 3 '42

Conservation of materials for defense wiring. H. R. Stevenson and O. K. Coleman. il Edison Elec Inst Bul 9:437-8+ N '41

Critical materials, their conservation by the use of alternates. J. Horn. il Gen Elec R 45:407-14 Jl '42; Same cond. Electrician 129:272-6 S 11 '42; Excerpt. Steel 110:34-5, 59-62 Je 8 '42

Economising nickel; alternative alloys for control gear. Elec R (Lond) 131:387-91 S 25 '42

Electrical contact problems. il Engineer 174:146-9 Ag 21 '42

Electrical materials; supply conditions in 1941. Elec R (Lond) 130:17-18 Ja 2 '42

Is silver a public utility? H. M. Bratter. Pub Util 29:549-53 Ap 23 '42

Materials for springs for electric equipment. P. M. G. Thorpe. il Elec R (Lond) 130:465-7 Ap 10 '42

Metal shortages and their effect on line hardware; report of the line hardware subcommittee, EEI. E. H. Kendall. Edison Elec Inst Bul 9:459-61 N '41

Mica resources. Elec R (Lond) 129:439 O 24 '41

Opportunities for conservation of critical materials in victory housing and industry. J. F. Porter, jr. Edison Elec Inst Bul 10:134-5 Ap '42

Plastic materials; a guide to choice for electrical components. W. J. Tucker. il Elec R (Lond) 129:625-8 D 5 '41

Plastics. V. E. Yarsley. Electrician 128:288-9 Mr 27 '42

Plastics; electrical applications. V. E. Yarsley. Electrician 128:623-4 Je 19 '42

Power for defense; the utility view. J. C. Parker. Elec Eng 61:18-21 Ja '42

Relay contacts; new material for heavy duty; powder metallurgy product silver-nickel Elkonite. H. R. Brooker. il Elec R (Lond) 130:651-2 My 22 '42

Silver uses being increased in electrical equipment. H. A. Winne. Sci Am 167:155-6 O '42

Sources of war materials; importance of Latin America. Elec R (Lond) 130:282-3 F 27 '42

Substitute materials in electrical equipment. A. Small. Elec Eng 61:537-8 O '42

Substitute materials; need for forward planning. G. A. Williams. Elec R (Lond) 130:653-4 My 22 '42

Use feeder regulators, save critical materials. O. B. Falls. diags Elec W 117:71-3 Ja 10 '42

Utilities and the copper situation. C. W. Kellogg. Edison Elec Inst Bul 9:482-4 D '41

Watthour meters; savings of critical materials through utilization of alternates. G. R. Sturtevant. il Gen Elec R 45:589-90 O '42

See also

Electric conductors
Electric wire
Insulating materials

Statistics

Annual statistical number. Elec W 117:257-89 Ja 24 '42

Canada

Electrical equipment vital to Canada's war effort. D. C. Durland. Water & Sewage 80:40+ Ja '42

Electricity in Canada. Electrician 129:54 Jl 17 '42

Set for wartime operations; Northwest electric light and power association and Western division of Canadian electrical association joint meeting. Elec West 88:73-5 Ap '42

Great Britain

Association of supervising electrical engineers annual luncheon; codes of practice; technical training. Electrician 128:151-2 F 20 '42

British electrical development association annual meeting, London. Elec R (Lond) 130:391-4 Mr 27 '42

Contact prices; adjustment formulæ for varying costs. Elec R (Lond) 131:375 S 18 '42; Electrician 129:292-3 S 18 '42

Contractors' information; cable supplies, prices of goods, insurance. Electrician 128:644-5 Je 26 '42

Electrical contracting; report of E.C.A. president for 1941-42; abstracts. W. Riggs. Elec R (Lond) 131:19-20 Jl 3 '42; Electrician 129:4-5 Jl 3 '42

Electrical engineers and the post-war period. C. L. Fortescue. Engineering 154:315-16, 338 O 16-23 '42; Same cond. Engineer 174:300-1, 312-14 O 9-16 '42; Abstracts. Elec R (Lond) 131:455-6 O 9 '42; Electrician 129:387-9 O 9 '42

Future developments in the uses of electricity. H. C. Turner. Inst E E J 89 pt 1:81-4 F '42; Excerpts. Elec R (Lond) 129:473-4 O 31 '41

Future of the Institution and the electricity supply engineer. R. H. Rawll. Inst E E J 89 pt 1:98-101 F '42; Abstracts. Elec R (Lond) 129:537-8 N 14 '41; Electrician 127:267 N 7 '41

Incorporated municipal electrical association activities. Elec R (Lond) 130:105-6 Ja 23 '42

Incorporated municipal electrical association annual report. Electrician 128:610-12 Je 19 '42; Elec R (Lond) 130:787-8 Je 19 '42

Interdependence of manufacturers and electricity supply undertakings. F. Gurney. Inst E E J 89 pt 1:89-93 F '42; Abstract. Elec R (Lond) 129:474-6 O 31 '41

Post-war reconstruction. C. C. Hodges. Inst E E J 89 pt 1:191-2 Ap '42

Research activities in war-time; annual meeting of E.R.A. Electrician 128:139-40 F 20 '42

Solving war-time electrical problems; discussion. Inst E E J 89 pt 2:45-51 F '42

War effect on English electric service. E. Hardy. Elec W 117:79 Ja 10 '42

Work of E.R.A. Elec R (Lond) 130:77-8 Ja 16 '42

See also

Electric apparatus industry—Great Britain
Electric utilities—Great Britain
Electricity supply—Great Britain

Netherlands Indies

Electricity in the N.E.I. G. O. McLean. Elec R (Lond) 130:301-2 Mr 6 '42

ELECTRIC industries—*Continued*

New Zealand

Gas and electrical development in New Zealand. A. S. Fitzpatrick. Gas J (Lond) 238:246 My 13 '42

Northwestern states

Set for wartime operations; Northwest electric light and power association and Western division of Canadian electrical association joint meeting. Elec West 88:73-5 Ap '42

Russia

Engineering in U.S.S.R.; abstracts. A. P. M. Fleming. Electrician 128:613-15 Je 19 '42; Elec R (Lond) 130:821 Je 26 '42

United States

Annual statistical number. Elec W 117:257-89 Ja 24 '42

Chronology of 1941. Elec W 117:290-2 Ja 24 '42

Commercial outlook for 1942. C. E. Greenwood. il Edison Elec Inst Bul 10:7-10 Ja '42

Innumerable problems for war needs solved by electrical industry. Steel 110:395-6 Ja 5 '42

1940 census provides much information for use by electric industry; with tabulated data on farms by size of income, by states and by geographic division, 1929-1939. M. Rainey. Edison Elec Inst Bul 10:21-4 Ja '42

OPA holds to March prices. Elec West 89:45 S '42

War and the electrical industry. C. H. Lang. Gen Elec R 45:381-3 Jl '42

Will electric power be a bottleneck? L. Marlio. 67p pa 50c Brookings institution, Washington, D.C. '42

See also

Edison electric institute

Electric apparatus industry—United States

Electric utilities—United States

Electricity supply—United States

Western states

Electrical West annual review number. il Elec West 88:41-81 F '42

ELECTRIC instruments

Analyzer determines recovery phenomena. G. W. Dunlap. diag Elec W 116:1606 N 15 '41

Apparatus for the direct determination of slow neutron velocity distributions. L. J. Haworth, J. H. Manley and E. A. Luebke. il diags R Sci Instr 12:591-7 D '41

Bell telephone laboratories' central instrument loan system. M. L. Clarke. il Instruments 15:338-9 S '42

Coil testing quickly done with new machine. il Sci Am 166:288 Je '42

Conductivity cells and electrical measuring instruments. C. E. Kaufman. diags Am Soc T M Proc 41:1326-36; Discussion. 1337 '41

Design of long-scale indicating instruments. A. J. Corson, R. M. Rowell and S. C. Hoare. bibliog il diags Elec Eng 61:Trans 318-27 Je '42

Developments in ion accelerating tubes. J. H. Manley, L. J. Haworth and E. A. Luebke. bibliog diags R Sci Instr 12:587-90 D '41

Direct current amplifier and its application to industrial measurements and control; abstract and discussion. D. C. Gall. Electrician 128:249-51 Mr 20 '42

Educational instruments. il Elec R (Lond) 130:69-71 Ja 16 '42

Electrical developments of 1941; meters and instruments. G. Bartlett. il Gen Elec R 45:19-21 Ja '42

Gets essential data from few instruments; distribution substation. il Elec W 117:2246 Je 27 '42

Heat flow problems solved by electrical circuits. V. Paschkis. bibliog il Heating-Piping 13:756-7 D '41

High speed limit bridge. il R Sci Instr 13:237 My '42

How to avoid overstress in machine parts; use of the electric strain gage. M. W. Hively. il diags Gen Elec R 44:621-3 N '41; Same. Steel 110:90+ My 18 '42

Instrument aids for turbine operation. H. C. Werner and G. V. Krenikoff. il diags Power Pl Eng 46:84-7 N '42

Instrument for measuring electrical field strength in strong high frequency fields. K. S. Lion. bibliog diags R Sci Instr 13:338-41 Ag '42

Instrument industry. W. Phillips. Elec R (Lond) 130:67-8 Ja 16 '42

Instruments win our battles; Monsanto chemical company. H. Greer. il Factory Management 100:103-4 F '42

Load-limit indication. H. C. Busbridge. diags Elec R (Lond) 131:364 S 18 '42

Magnetic materials for electrical indicating instruments. A. J. Corson. bibliog il diags Gen Elec R 45:573-5 O '42

Measurement of gases; electrical methods of computation and analysis. T. T. Baker. il diag Elec R (Lond) 130:41-2 Ja 9 '42

Measurement of pH. T. T. Baker. il diags Elec R (Lond) 129:425-8 O 24 '41

Measurements for victory. I. F. Kinnard. il Gen Elec R 45:492-4 S '42

Measurements; work of General engineering laboratory. E. S. Lee. Gen Elec R 45:491 S '42

Miniature instruments. J. M. Whittenton. il diags Gen Elec R 45:501-4 S '42

New instrument for analyzing electric transients. N. Rohats. il diag Gen Elec R 45:121-2 F '42; Abstract. Electronics 15:78+ My '42

New jewel for indicating instruments. F. K. McCune and J. H. Goss. il diags Elec Eng 61:Trans 673-6 S '42

New moving-magnet instrument for direct current. H. T. Faus and J. R. Macintyre. il diags Elec Eng 61:Trans 586-8 Ag '42

New type of conductivity apparatus for use with boiler waters and steam samples. A. R. Mumford. il diags Am Soc T M Proc 41:1314-25; Discussion. 1337 '41

Novel features mark a.c. calculating board; Public service company of Oklahoma. E. B. Phillips and L. C. Grigsby. il Elec W 116:2030-1 D 27 '41

Pivot bearing design. J. H. Goss. diags Product Eng 12:662-4 D '41

Progress report of d-c testing of generators in the field. E. R. Davis and M. F. Leftwich. il diags Elec Eng 61:Trans 14-18 Ja '42

Some developments in electrical and optical instruments. il Engineer 173:124-5, 167-8 F 6, 20 '42

Survey of instrument design and performance. W. Phillips. Inst E E J 89 pt 1:52-5 Ja '42

Transient analyzer checks breakers and bus protection. J. H. Neher and R. J. Woodrow. il diag Elec W 116:1885-6 D 13 '41

Turbidity comparator; useful in assaying physiologically active substances by measuring the growth of micro-organisms. R. P. Krebs and others. bibliog il diags R Sci Instr 13:229-32 My '42

Variable phase transformer and its use as an a.c. interference eliminator. A. Kolin. diag R Sci Instr 12:555 N '41

See also

Ammeters

Bolometers

Electric apparatus and appliances

Electric measurements

Electric meters

Electric resistors

Electric testing

Galvanometers

Oscillators

Photoelectric cells

Potentiometers

Radio instruments

Radio measurements

Recording instruments, Electric

Telemetering

Vacuum tubes—Measurement uses

Voltmeters

Wien bridge

Maintenance and repair

Maintenance and servicing of electrical instruments. J. Spencer. il diags Instruments 14:226-30+, 255-8+, 394-6, 398-408; 15:48, 50-7, 128+, 176+, 199-200, 202-5, 220-7, 248-52+ Ag-S, D '41, F, Ap-Jl '42

ELECTRIC instruments—Maintenance and repair—*Continued*

Repair or replacement of old electrical instruments; some influencing factors. P. MacGahan. Instruments 15:173 My '42

Testing

Instrument checking. E. A. Farthing. Elec R (Lond) 131:89-90 Jl 17 '42

ELECTRIC insulation. See Insulation (electric)

ELECTRIC inverters

Vibrating-type inverter for fluorescent lighting. il Transit J 86:111-12 Mr '42

ELECTRIC irons

Steam iron designed for lightness. il diags Product Eng 12:642 D '41

Manufacture

Cleaning and bright plating steel parts of electric irons. F. A. Maurer. il Metal Finishing 39:657-61 D '41

Merchandizing

Sales guide. il Elec West 87:41-3 D '41

ELECTRIC laboratories

College electrical laboratories; expanding field for safety education. M. S. Coover. il Nat Safety N 45:22-3, 94-7 My '42

Electrical laboratories; types of equipment required for technical colleges. G. H. Rawcliffe. Elec R (Lond) 131:489-90 O 16 '42

High-capacity circuit-breaker testing station. J. B. MacNeill and W. B. Batten. bibliog il diag plan Elec Eng 61:Trans 49-53 F '42

High-power testing; laboratory of Westinghouse electric & mfg. co. il Steel 110:66-7 Mr 16 '42

High power testing pushed to new limits; high power laboratory at the Westinghouse East Pittsburgh works. W. B. Batten. il Power Pl Eng 46:79-81 Mr '42; Same. Blast F & Steel Pl 30:255-6 F '42

Suggested specifications for electrical laboratories. 37p Westinghouse electric & mfg. co, East Pittsburgh, Pa. '42

Testing with lightning bolts; Westinghouse laboratories. A. P. Peck. il Sci Am 166:171-3 Ap '42

Westinghouse super-power testing laboratory. Science 95:sup7 Ja 30 '42

ELECTRIC lamps

Brightnesses of light sources. W. E. Forsythe and E. M. Watson. Gen Elec R 44:489-91 S '41; Correction. 45:402 Jl '42

Drawing lamp for camera lucida. E. V. Seeler, jr. diags Science 96:94 Jl 24 '42

Electrical characteristics of stroboscopic flash lamps. P. M. Murphy and H. E. Edgerton. il diags J Ap Phys 12:848-55 D '41

Electrical developments of 1941; illumination. G. Bartlett. il Gen Elec R 45:42-5 Ja '42

General Electric lamps for radiant heating. il Engineering 153:147 F 20 '42

Lamps in photography. T. T. Baker. diags Elec R (Lond) 129:561-4 N 21 '41

Light sources; types of lamps and advantages. il Arch Rec 92:67-72 S '42

Maintenance of protective lighting. G. A. Eddy. il plan Power Pl Eng 46:73-6 N '42; Same. Blast F & Steel Pl 30:1251-4 N '42

Outlook for supply of lamps and lighting equipment. D. M. Julien. Edison Elec Inst Bul 10:145-8 Ap '42

Progress in engineering knowledge during 1941; seeing, indoor and outdoor lighting. P. L. Alger. bibliog il diags Gen Elec R 45:114-19 F '42

Utilization voltages. H. P. Seelye. Elec Eng 61:Trans 147-51 Mr '42; Same. Edison Elec Inst Bul 10:83-7+ Mr '42

WPB halves lamp types; blackout fixtures curbed. Elec W News ed 118:1018 S 26 '42

Whither lighting? J. B. Harris. il Elec R (Lond) 129:466-8 O 31 '41

See also

Automobiles—Lighting
Electric flashlights
Electric lanterns
Electric lighting
Electric signs
Safety lamps, Electric
Ultraviolet rays—Lamps

Advertising

Lamp publicity. il Elec R (Lond) 131:342-3 S 11 '42

Lamp sales publicity. il Electrician 129:217, 245-6, 301-2 Ag 28-S 4, 18 '42

Heat radiation

See also

Lighting fixtures—Temperature

Manufacture

Bulb snatching is OK now; sufficient materials available. N. H. Boynton. Elec West 88:46 Mr '42

See also

Electric lamps, Fluorescent—Manufacture
Electric lamps, Incandescent—Manufacture

Merchandizing

Business guide for electrical dealers and salesmen. Elec West 89:55-7 Ag '42

Dealer clinic; Puget Sound mobilizes entire industry for lighting drive. Elec West 87:51-2 N '41

Lighting sold in tailor-made package; Kansas gas & electric company. B. Barnabas. il Elec W 117:1390+ Ap 18 '42

More than 1⅓ billion lamps sold in 1941. Edison Elec Inst Bul 9:503 D '41

Speaker's notes; sales opportunities and appeals in lamp service. B. Heinz. Elec West 87:50-1 N '41

Standards

Lamps and voltages should be standardized. S. G. Hibben. Nat Safety N 44:36 D '41

ELECTRIC lamps, Arc

Carbon arc, a valuable industrial tool. W. C. Kalb. bibliog il Elec Eng 61:Trans 581-5 Ag '42

Color of light on the projection screen. M. R. Null, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:219-28 Mr '42

Consumption of the positive arc carbon. H. G. MacPherson. Soc Motion Picture Eng J 38:235-9 Mr '42

New 13.6-mm carbons for increased screen light. M. T. Jones, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:229-34 Mr '42

Radiation from carbon arcs. H. G. MacPherson. il diag J Ap Phys 13:97-102 F '42

See also

Electric lamps, Fluorescent
Electric lamps, Mercury vapor

ELECTRIC lamps, Blackout

New blackout bulb. E. Neff. Science 95:sup10+ Ap 3 '42

ELECTRIC lamps, Fluorescent

All-out illumination; textile mill requirements. il Rayon 23:229-33 Ap '42

Analysis of the application of fluorescent lamps to motion picture photography. R. Rosenberg. Soc Motion Picture Eng J 38:173-9 F '42

Application of high-voltage fluorescent tubing to lighting problems. D. P. Caverly. il Illum Eng 36:1298-1310; Discussion. 1310-13 D '41

Banked units light dental surgery. F. Sell. il Elec W 118:1152+ O 3 '42

Better lighting raises output of woolen cloth; Uxbridge (Mass.) worsted company. il Elec W 117:654-5 F 21 '42

Big market for ceramic coated glass seen in new fluorescent fixtures. il Cer Ind 38:68, 70 Mr '42

Can fading be reduced by filtering fluorescent light? M. Luckiesh and A. H. Taylor. Illum Eng 37:265-6 My '42

Choosing the right lamp for industrial lighting; with cost comparisons. H. S. Broadbent. Mach 48:148-51 F '42

Color coils modify light from fluorescent tubes. il Sci Am 165:336 D '41

Continuous reflector troughing; fluorescent tubular discharge lamps. il Electrician 128:608-9 Je 19 '42

ELECTRIC lamps, Fluorescent—*Continued*

Cost analysis of fluorescent vs. incandescent lighting installations. B. F. Greenberg. charts Illum Eng 37:165-70 Mr '42

Design of reflectors for fluorescent lamps. D. P. Severance. diags Illum Eng 36:1314-29 D '41

Don't be caught with your lumens down; a discussion of maintenance and its problems. P. R. Holmes and H. W. Conklin. Illum Eng 37:358-68 Je '42

Ease fluorescent fixture restriction. Elec W News ed 117:2153 Je 20 '42

Electronics of the fluorescent lamp. M. A. Townsend. bibliog diags Elec Eng 61:Trans 607-12 Ag '42

Fight for the ceiling; air conditioning engineer, lighting engineer and the acoustical engineer, each must claim part of ceiling for his equipment. K. C. Porter. il Heating-Piping 14:484-5 Ag '42; Discussion. 14:550-1 S '42

Fluorescent fixture steps up lighting efficiency. il Sci Am 167:126 S '42

Fluorescent lamp as a voltage stabilizer. L. G. Parratt and R. G. Stephenson. diag R Sci Instr 13:233-4 My '42

Fluorescent lamps. L. J. Davies, H. R. Ruff and W. J. Scott. Elec R (Lond) 130:529-30 Ap 24 '42; Discussion. 130:530-1 Ap 24 '42; Electrician 128:394-6 Ap 24 '42

Fluorescent light sources and their applications; abstracts. J. N. Aldington. Electrician 128:367-8 Ap 17 '42; Elec R (Lond) 130:499-500 Ap 17 '42

Fluorescent lighting; abstracts. H. G. Jenkins. Elec R (Lond) 130:208-9 F 13 '42; Electrician 128:121-2 F 13 '42; Light & Lighting 35:24 F '42

Fluorescent lighting; avoidance of the tunnel effect. il Light & Lighting 35:97 Ag '42

Fluorescent lighting in an ordnance plant; case studies in approved conversion lighting. diags Elec W 118:108, 110-13, 116 Jl 11 '42

Fluorescent lighting in an underground factory. Light & Lighting 35:34 Mr '42

Fluorescent lighting in textile mills. E. Mauldin. il Textile World 92:86-9 My '42

Fluorescent lighting manual. C. L. Amick. 312p $3 McGraw-Hill '42

Fluorescent lighting of gauge panels. H. D. Green and W. C. Woodman. il diags Elec W 116:2036-8 D 27 '41

Fluorescent lighting on rails; New York Central's new Empire State Express. Power Pl Eng 46:67 Ja '42

Fluorescent lighting underground. Light & Lighting 35:81 Je '42

Fluorescent light's effect on color. O. P. Cleaver. Elec W 116:1918 D 13 '41

Fluorescent microscope lamp. L. H. Berkelhamer. il Ind & Eng Chem Anal ed 14:833-4 O 15 '42

Fluorescent store lighting. il Light & Lighting 35:110 S '42

Fluorescent tube and fixture use order. Elec W 117:supp Ap 4 '42

Fundamental facts of fluorescent fixture design. F. C. Winkler. diags Illum Eng 37:229-47 Ap '42

Getting more light on less power; Washington terminal now has fluorescent lighting. il Ry Age 113:134-5 Jl 25 '42

Graphical method of determining lighting costs. L. S. Ickis. Illum Eng 37:377-81 Je '42

High and low voltage fluorescent lamps. J. W. Marden and G. Meister. il Illum Eng 36:1286-96; Discussion. 1296-7 D '41

High frequency adapts fluorescent lamps to aircraft. R. F. Hays. Elec Eng 60:539 N '41; Abstract. diag Electronics 14:77-8 D '41

How light can help. C. T. Bakeman. il Elec West 88:68-70 Je '42

Improved fluorescent lighting equipment. Marine Eng 47:100 F '42

Indirect fluorescent for drafting room. il Elec W 116:2072 D 27 '41

Industrial diamonds; fluorescent lighting assists close examination. il Electrician 128:362-3 Ap 17 '42

Industrial light hood made of pressboard. E. D. Tillson. il Elec W 118:797+ S 5 '42

Interpretation of spectral distribution data in practical color applications. R. L. Oetting and C. L. Amick. bibliog diags Illum Eng 36:1369-90; Discussion. 1390-6 D '41

Light for a drafting room. il Elec West 88:61 My '42

Light for drafting and for beauty salons. il Elec West 88:110 Je '42

Light for furniture store and for a drug store. il Elec West 89:62 Jl '42

Light for offices of a lamp company, South Pacific sales division offices of General electric company. il Elec West 89:66 Ag '42

Lighting a giant bomber assembly plant. G. J. Taylor. il diags Elec W 118:287-9 Jl 25 '42

Lighting for improved plant efficiency and safety. A. K. Gaetjens. bibliog il Paper Tr J 114:27-34 F 12 '42

Lighting large factory areas with fluorescent lamps. G. J. Taylor. il diags Illum Eng 36:1414-34 bibliog(p1434-6); Discussion. 1436-61 D '41

Maintenance hints for industrial lighting; program for incandescent and fluorescent lamps. il Power 86:545 Ag '42

Modern front for utility offices; colored fluorescent light and architectural glass; Indiana service corporation. il Elec W 116:1748 N 29 '41

Modern lighting for new aircraft plant. Elec W 117:1559 My 2 '42

Modern lighting in modern gage plant; Merz engineering company. R. M. Brown. il Elec W 116:1563-4+ N 15 '41

Modern railroad-car lighting. W. S. H. Hamilton. bibliog il diags Elec Eng 61:179-86 Ap '42

More light and better work with modern fluorescent lamps. il Bankers Mo 59:309-11 Jl '42

Organize Fluorescent lighting association. Power 86:294b-294c Ap '42

Paint and light. il Factory Management 100:108-10 Mr '42

Performance evaluation of fluorescent units. K. Franck. diags Illum Eng 37:217-28 Ap '42

Planning for maintenance; fluorescent lamps. E. W. Beggs. il Illum Eng 36:1354-65 D '41; Excerpts. Elec W 116:1922 D 13 '41; Rayon 23:233-4 Ap '42; Same cond. Power Pl Eng 46:88-9 Mr '42; Discussion. Illum Eng 36:1366-8 D '41

Portable F lamps aid plane production. il Elec W 116:1912 D 13 '41

Relighting for war schedules; southern mill replaces obsolete system with fluorescent installation. W. T. Stuart. il plan Textile World 92:68-9 O '42

Seadrome lighting system; Westinghouse directed fluorescent lighting. W. A. Pennow. il diag Aviation 41:144-5+ Mr '42

Spatial lighting eliminates glare. il Iron Age 149:48 Ap 9 '42

Steps of progress; report of the I.E.S. committee. il diag Illum Eng 36:990-1029 D '41

Substitute materials in war-plant lighting. E. D. Tillson. il diags Elec Eng 61:458-60 S '42

Sylvania Electric: growth company. K. Brandon. Barron's 22:20 O 5 '42

Technical progress during 1941; electric discharge lamps. C. C. Patterson. Electrician 128:60-1 Ja 30 '42

Television light supplemented with fluorescent tubes. il Sci Am 166:195-6 Ap '42

Utility angles on fluorescent. Elec W 117:1556+ My 2 '42

Vibrating-type inverter for fluorescent lighting. il Transit J 86:111-12 Mr '42

Vision and seeing under light from fluorescent lamps. M. Luckiesh and F. K. Moss. bibliog Illum Eng 37:81-8 F '42

War plant drafting, long-hour lighting. il Elec W 117:1220 Ap 4 '42

WPB halts production of non-industrial fluorescent. Elec W News ed 118:1353 O 24 '42

Wartime schedules make adequate lighting essential. J. J. Neidhart. il plan Machine Design 14:54-6 Mr '42

ELECTRIC lamps, Fluorescent—*Continued*

Cold cathode

Fluorescent lighting stretches out; cold-cathode tubes, operated at high potentials, have interesting applications for many uses. A. C. Lescarboura. il Sci Am 167: 167-9 O '42

What cold-cathode fluorescent lighting is. il Factory Management 100:113-14 My '42

Failures

Flying particles cause lamp failure. il Elec W 118:1482 O 31 '42

Manufacture

Fluorescent lighting. C. H. Vivian. il diags Comp Air M 47:6674-9 Mr '42

Hygrade Sylvania corp. fluorescent lamp plant employs reinforced concrete pipe for underground air ducts. il Heat & Ven 39:37 Mr '42

New plant for fluorescent lamp production; Hygrade Sylvania uses concrete pipe for ducts. il Heating-Piping 14:162-3 Mr '42

New plants of 1941; fluorescent lamps. il Factory Management 100:B59-B60+, B62-B64+ Ap '42

Reinforced concrete pipe used for underfloor air ducts at new plant; fluorescent lamp plant of the Hygrade Sylvania corp. S. M. Brown. diag Heating-Piping 14:282+ My '42

Merchandizing

Light sampler convinces grocers. il Elec W 117:2106+ Je 13 '42

Salesmen's club wins jobber push for Miller lighting equipment. il Sales Management 49:56+ D 1 '41

Testing

F-lamp troubles diagnosed in field. il Elec W 118:1296 O 17 '42

Fluorescent lamp and starter test device. il Elec W 116:1588 N 15 '41

Photometer for fluorescent fixtures. H. W. Wrigley. il Elec W 116:2069 D 27 '41

Practical photometry of fluorescent lamps and reflectors. G. R. Baumgartner. diags Illum Eng 36:1340-53 D '41

Tests made with fluorescent whites. Illum Eng 37:10 Ja '42

ELECTRIC lamps, Incandescent

Choosing the right lamp for industrial lighting; with cost comparisons. H. S. Broadbent. Mach 48:148-51 F '42

Cost analysis of fluorescent vs. incandescent lighting installations. B. F. Greenberg. charts Illum Eng 37:165-70 Mr '42

How to find light intensity at any point. J. H. Dean. chart Elec W 117:2080 Je 13 '42

Incandescent lighting in a foundry; case study in approved conversion lighting. diag Elec W 118:109 Jl 11 '42

Jeep plant fights fatigue; use of Verd-A-Ray lamps. F. Beekman. il Safety Eng 83:22, 24 Ap '42

Maintenance hints for industrial lighting; program for incandescent and fluorescent lamps. il Power 86:545 Ag '42

No curtailment expected in regular lamp supply. Elec W 117:497-8 F 7 '42

See also

Electric lamps, Tungsten

Safety lamps, Electric

Manufacture

Manufacture of incandescent Mazda lamps. J. D. Hall. il diags Elec Eng 60:574-80 D '41

WPB cuts more lamp bulb materials. Elec W News ed 117:2156 Je 20 '42

ELECTRIC lamps, Mercury-argon

Visually bright "neon" enlarging light; combining mercury-argon and fluorescent lamps. K. Schlichter. il Photo Tech 3:42-5 D '41

ELECTRIC lamps, Mercury vapor

Choosing the right lamp for industrial lighting; with cost comparisons. H. S. Broadbent. Mach 48:148-51 F '42

Lighting for improved plant efficiency and safety. A. K. Gaetjens. bibliog il Paper Tr J 114:27-34 F 12 '42

Mercury vapour lighting horizontal lamps on colliery picking belts; abstract. C. S. Chubb. Engineering 153:312 Ap 17 '42

ELECTRIC lamps, Neon

Extra strong heliotropic effect of neon lights. C. N. Ray. Science 94:585-6 D 19 '41; Discussion. H. F. Blum. 95:223 F 27 '42

ELECTRIC lamps, Photoflash

Correspondence on photoflash lamps. Am Phot 36:4+ S '42

Lamps in photography. T. T. Baker. diags Elec R (Lond) 129:563 N 21 '41

Photoflash synchronizer tester. P. A. Marsal. il diags Electronics 15:34-5 Ja '42

Synchronizing speed midgets with electromagnetic synchronizers. R. W. Morris. il diags Am Phot 36:8-10 O '42

ELECTRIC lamps, Photoflood

Spot and flood lighting. A. J. Lockrey. il Am Phot 36:32-5 Je '42

ELECTRIC lamps, Portable

New lamp designs for higher levels. il Elec W 117:1554 My 2 '42

New type 2-3-5 lamp. il diag Elec West 88: 53 My '42

Students offer ideas for lamps using nonessential war materials. il Illum Eng 37: 263-4 My '42

ELECTRIC lamps, Sodium vapor

Canal lighting; sodium vapor units for Cape Cod waterway. il Sci Am 166:78 F '42

Penetration of fog by light from sodium and tungsten lamps. M. Luckiesh and L. L. Holladay. bibliog Opt Soc Am J 31:528-30 Ag '41; Abstract. Sci Am 166:244+ My '42

Regulators aid sodium lighting operation; operation data on Tacoma highway lighting installations. P. A. Brown. il diags Elec West 88:38-9 Ja '42

Sodium illumination for vehicular traffic tunnels. R. M. Swetland. il diag Illum Eng 36:917-26 N '41

Sodium light improves microscopic inspection. H. A. Breeding. Iron Age 150:44 S 24 '42; Same cond. Roads & Bridges 80:128-9 O '42

ELECTRIC lamps, Tungsten

Hotbeds heated by lamps win favor. R. L. Zahour. il Elec W 117:532+ F 7 '42

Manufacture of incandescent Mazda lamps. J. D. Hall. il diags Elec Eng 60:574-80 D '41

Penetration of fog by light from sodium and tungsten lamps. M. Luckiesh and L. L. Holladay. bibliog Opt Soc Am J 31:528-30 Ag '41; Abstract. Sci Am 166:244+ My '42

ELECTRIC lanterns

Butyrate plastic chosen for utility lantern. il Product Eng 13:315 Je '42

ELECTRIC light fixtures. See Lighting fixtures; Reflectors

ELECTRIC lighting

Adequate light for efficient load dispatching; windowless structure housing the load dispatchers of the Los Angeles bureau of power and light. L. A. Gates. il Elec W 118:451-3 Ag 8 '42

Application of high-voltage fluorescent tubing to lighting problems. D. P. Caverly. il Illum Eng 36:1298-1310; Discussion. 1310-13 D '41

Business guide for electrical dealers and salesmen. il Elec West 88:45-8 Ja '42

Color selector; light demonstration box to test effect of fluorescent and incandescent light on color of various materials. il Elec West 88:60 My '42

Conversion lighting; manual of priority procedure. diags Elec W 118:101-16 Jl 11 '42

Don't be caught with your lumens down; a discussion of maintenance and its problems. P. R. Holmes and H. W. Conklin. Illum Eng 37:358-68 Je '42

Electrical developments of 1941; illumination. G. Bartlett. il Gen Elec R 45:42-5 Ja '42

Electrical illumination. J. O. Kraehenbuehl. 441p $3.75 Wiley '42

ELECTRIC lighting—*Continued*

Illumination engineering. W. B. Boast. 274p $3 McGraw-Hill '42

Insured lighting power by station busbar changes. E. R. Webber. diag Power 86:425-6 Je '42

Lighting aids to war production discussed at conference, AIEE summer convention. Elec Eng 61:431 Ag '42

Lighting program now service program; Ohio public service company. R. W. Butts. il Elec W 117:803-5 Mr 7 '42

Lighting tendencies; wartime American installation practice. il Elec R (Lond) 130:525-6 Ap 24 '42

Lo-vo-lite; low voltage transformer switch fuse unit for industrial lighting. il Electrician 129:365-6 O 2 '42

Maintaining residential usage by our customers. A. C. Crandall. Edison Elec Inst Bul 10:149-50 Ap '42

Outlook for supply of lamps and lighting equipment. D. M. Julien. Edison Elec Inst Bul 10:145-8 Ap '42

Planning for maintenance; fluorescent lamps. E. W. Beggs. il Illum Eng 36:1354-65; Discussion. 1366-8 D '41

Scottish lighting service bureau. il Electrician 129:369 O 2 '42

76.7% of homes electrically lighted. Elec W News ed 118:690 Ag 29 '42

Storage battery emergency lighting and power plants. il diags Power Pl Eng 46:81-3+ My '42

Used fixtures help build lighting load. M. S. Gilbert. Elec W 117:1226-7 Ap 4 '42

See also

Airports—Lighting
Automobiles—Lighting
Electric lamps
Electric plants
Electric signs
Electric wiring
Electricity on the farm
Factories—Lighting
Light projection
Lighting
Office lighting
Photometry
Roads—Lighting
Street lighting

Control

Airport lighting system control. W. C. Norvell. il Aviation 41:205 Ag '42

Industrial plant blackout control; diagrams. Elec W 117:2244 Je 27 '42

Light-dimming equipment for A.R.P. signalling. il diag Engineering 153:406 My 22 '42

Light watchman; phototube for air-raid blackouts. il Gen Elec R 45:186 Mr '42

Throw-over for protective lighting. diag Elec W 118:1464 O 31 '42

Cost

Cost analysis of fluorescent vs. incandescent lighting installations. B. F. Greenberg. charts Illum Eng 37:165-70 Mr '42

Daylight in factories; notes on costs, electrical comparison. Electrician 128:651-2 Je 26 '42

Graphical method of determining lighting costs. L. S. Ickis. Illum Eng 37:377-81 Je '42

Playground lighting for 3 cents a head. E. C. Pynn. Elec W 117:342+ Ja 24 '42

History

Entering the seventh decade of electric power; early price history of the electric light. C. E. Neil. Edison Elec Inst Bul 10:330-2 S '42

Stabilization

Comparison of equipment to minimize flicker voltage on power systems; tabulation. S. B. Griscom. Elec W 117:1528 My 2 '42

Tables, calculations, etc.

Cost analysis of fluorescent vs. incandescent lighting installations. B. F. Greenberg. Illum Eng 37:165-70 Mr '42

How to find light intensity at any point. J. H. Dean. chart Elec W 117:2080 Je 13 '42

ELECTRIC lines

Capacitors for higher line thermal loading. J. W. Butler. Elec W 117:510 F 7 '42

Electrical transmission and distribution reference book. 570p $5 Westinghouse electric & manufacturing co, East Pittsburgh, Pa. '42

Links for Arkansas pool win commission approval. Elec W 117:301 Ja 24 '42

Multichannel carrier-current facilities for a power line. P. N. Sandstrom and G. E. Foster. il diags Elec Eng 61:Trans 71-6 F '42

Physics of a transmission line. W. M. Thornton. bibliog Inst E E J 88 pt 2:561-7 D '41

Propagation constant and characteristic impedance of high loss transmission lines. K. Spangenberg. Electronics 15:57-8 Ag '42

Savings hints for line department. Elec W 117:1867 My 30 '42

Seismic shooting near power lines; the use of Primacord detonating fuse reduces hazards. R. L. Klotz, jr. il diags Explosives Eng 20:108-12 Ap '42

Transmission and substations, 1941. Elec W 117:269-71 Ja 24 '42

See also

Electric cables
Electric circuits
Electric conduits
Electric plants—Interconnection
Electric protective apparatus
Electric railroads
Electric service, Rural
Electric substations
Electric transmission
Electric utilities
Electric wire
Electric wiring
Hydroelectric plants
Radio lines
Telephone lines
Trolley buses

Accidents

Here's how it happened; table-top demonstration re-enacts the electric line accident. il Nat Safety N 45:52 Ap '42

Construction

Iron for line construction; use of solid and stranded steel wire in place of copper. il Elec West 89:38-9 Jl '42

See also

Electric lines—Overhead construction
Electric lines—Underground lines

Cost of construction

Significant cost data on a 110-kv. line. Elec W 117:1553 My 2 '42

Damage from air raids

After a raid; rapid repairs and restoration of supply. il Elec R (Lond) 130:261-4 F 27 '42

Air raid damage to power cables. R. J. Wiseman. Elec W 117:833 Mr 7 '42

Bomb damage; effects on power plant. J. N. Waite. Elec R (Lond) 131:365-6 S 18 '42

Bombs fail to cripple Shanghai power. W. Hunter and F. M. Young. il Elec W 117:1652-5 My 16 '42

Boxes for emergency cable joints. R. J. Radcliffe. il diags Elec W 118:1470+ O 31 '42

Effect of the war on foreign power systems; information from England and China. Power Pl Eng 46:63-4 N '42

Overhead line damage; effects of high-explosive bombs. il Elec R (Lond) 130:205-6 F 13 '42

Protection of electric public utility systems against air raids; experiences of electric utilities in Great Britain. A. V. DeBeech. Edison Elec Inst Bul 10:186-7 My '42

Short-circuits in cables due to bomb damage. E. A. Beavis. il diag Elec R (Lond) 130:327-9 Mr 13 '42

Short-cuts to service restoration after bombing; Shanghai experience. W. Hunter. diags Elec W 118:438-40 Ag 8 '42

Unusual cable joint, useful for air-raid repairs. il Elec R (Lond) 130:371 Mr 20 '42; Abstract. Elec W 118:318 Jl 25 '42

Wartime damage to power supply. H. S. Bennion. il Power Pl Eng 46:84-6 My '42

Design

Design of 33,000 volt wood pole line. C. H. Lindell. bibliog diags Edison Elec Inst Bul 10:273-81 Jl '42; Same cond. Elec W 117:2055-8 Je 13 '42

ELECTRIC lines—Design—*Continued*

Estimating charts for 60-cycle line design. G. D. McCann. Elec W 117:643-5 F 21 '42; Correction. 118:1146+ O 3 '42
Minimizes contact possibilities of transmission wires; elliptical-area analysis of possible and probable gallop. A. E. Davison. diags Elec W 116:2026-8+ D 27 '41
Sag measurement by means of a stop watch. R. A. Tynes. diag Instruments 15:88-9 Mr '42
Wind shielding of parallel conductors. G. D. Sheckels. il Elec Eng 61:354-7 Jl '42

Ground return

Coupling coefficients for low frequency. R. D. Evans. Elec W 118:790 S 5 '42
Undergrounded ground wire supplies beacon. il Power Pl Eng 46:57 F '42

Ice problem

Ice on conductors; suggested amendments of overhead line regulations. J. McCombe. il Elec R (Lond) 131:235-8 Ag 21 '42
Simplified cable-sag calculations; varying conditions of temperature and loading. C. M. Goodrich. Civil Eng 12:104 F '42

Inductive interference

Coupling coefficients for low frequency. R. D. Evans. Elec W 118:790 S 5 '42
Low-frequency induction from normal load currents of distribution feeders. Edison Elec Inst Bul 10:244 Je '42
Power-system harmonics. T. W. Schroeder. diags Gen Elec R 45:399-402 Jl '42
Radio interference with CAA systems. J. M. Wissenbach. diag Elec West 89:45 Ag '42

Interconnection

See Electric plants—Interconnection

Location

Aerial mapping cuts survey cost in two. il Elec W 117:1199 Ap 4 '42

Maintenance and repair

Canadian utility designs two trucks. il Elec W 117:1682 My 16 '42
Emergency lighting for line repair jobs. il Elec W 117:320 Ja 24 '42
Field splice on 287-kv. line. E. J. Bowe. il diags Elec W 117:1200 Ap 4 '42
Line truck designed for variety of uses. W. E. Seabright. il Elec W 117:831 Mr 7 '42
Maintenance fill-in holds service up. J. S. Bourne and J. C. Richert, jr. Elec W 118:1488 O 31 '42
Maintenance plans for emergencies. W. C. Sander. Elec West 88:91-5 Je '42
Private storerooms help line crews. il Elec W 117:1384+ Ap 18 '42
Relative expense for service restoration with different types of overcurrent protection for distribution circuits. G. F. Lincks and C. R. Craig. diags Elec Eng 61:Trans 813-21 N '42
Repair truck for outlying districts. il Elec W 117:836 Mr 7 '42
Snowmobile; high country winter line work; snow tractor and sled. il diags Elec West 87:33 D '41
Tools for line work. il diags Elec W 117:692 F 21 '42

Moving

104½-ft. steel tower house-moved. il diags Elec W 117:104 Ja 10 '42

Overhead construction

Accident-free erection of 104-mile, 138-kv. line; field safety and medical programs at portable construction camps. G. I. Page. il Elec W 117:1661-3 My 16 '42
Bayonets carry shield wire for line reliability; illustrations. A. F. Maxwell and F. C. Helwig. Elec W 118:1094-5 O 3 '42
Conflicting regulations; construction of overhead lines on colliery premises; abstract. J. McOwat. Elec R (Lond) 130:434-5 Ap 3 '42
Conservation of critical materials used on overhead lines. H. J. Henderson. Edison Elec Inst Bul 10:48+ F '42
Construction of overhead lines in rural England. W. E. Darby. diags Inst E E J 89 pt 1:285-7 Je '42
Cross country; safe transmission line construction. H. Hughes. il Nat Safety N 45:22-3+ Je '42
Crossing requirements of the safety code; fourth and fifth editions compared. W. L. Cone and C. C. Gaddis. Elec West 88:39-41 My '42; Discussion. 88:98-9 Je '42
Crossover construction guard. C. M. Allen. il diags Elec W 118:1113 O 3 '42
Direct comparison leads to direct mounting of pole-supported transformers. F. Sanford. il diags Edison Elec Inst Bul 9:444-6 N '41
Distribution problems in cantonments. il Elec W 116:1704-7+ N 29 '41
Flying conductors for a new line; kite used in construction. D. Lesesne, jr. il Elec W 117:851 Mr 7 '42
Galvanized steel as a power conductor. F. M. Crapo. il Elec W 118:920-3 S 19 '42
G.O. 64-A is now G.O. 95; résumé of changes in Railroad commission ruling governing line construction in California. S. S. Bloom. Elec West 89:40-4 Jl '42
Grand Coulee linked to Bonneville by 230 kv. S. E. Schultz. il diag Elec W 117:1168-70 Ap 4 '42
Guying data. Elec W 117:1692 My 16 '42
How to install a plank anchor; diagrams. Elec W 118:482 Ag 8 '42
How to install anchor guys. diags Elec W 118:804 S 5 '42
How to install distribution transformers; diagrams. Elec W 118:1469 O 31 '42
Hydro for aluminum, highest head in East; Glenville and Nantahala plants. J. E. Housley. il diags map Elec W 116:1561-2 N 15 '41
Line sectionalizing by use of hot tap. F. Curtis. il Elec W 117:1050 Mr 21 '42
Lineman's handbook. E. Kurtz. 2d ed 652p $4 McGraw-Hill '42
Material economy at three-line junction. il Elec W 117:2240 Je 27 '42
Metal shortages and their effect on line hardware; report of the line hardware subcommittee, EEI. E. H. Kendall. Edison Elec Inst Bul 9:459-61 N '41
Modification of overhead-line regulations. Engineering 154:276 O 2 '42
Overhead distribution systems in wartime. H. Cole. bibliog Elec Eng 61:Trans 123-6 Mr '42; Abstract. Power Pl Eng 46:72-3 My '42
Safe jobs save time; building transmission line through swampy, heavily wooded country; safety measures put into operation by engineer of casualty insurance company. A. W. Meinke. il Eng N 128:868-70 My 21 '42
Self-supporting cable cuts costs. Elec W 117:1030+ Mr 21 '42
Support H-frames on bridge bents; line across Mt Creek lake. il diags Elec W 117:1196+ Ap 4 '42
Support 960-ft. span without steel towers. diag Elec W 118:1116 O 3 '42
33-kv. line has no crossarms. il Elec W 117:1842 My 30 '42
Typical standard for head guys. diag Elec W 117:2092 Je 13 '42
Unit crossarms erected by gins. J. M. Dyer. il diag Elec W 118:1270 O 17 '42
Use of steel wire for overhead line extensions. S. O. Miller. Edison Elec Inst Bul 10:197-200 My '42
War plant line record is tower per day; aluminum reduction plant being built in Los Angeles. il Elec West 89:65-7 S '42

Poles and towers

Adapter used for direct pole mounting. F. Sanford. il diags Elec W 117:514 F 7 '42
Bit depth gaged for reflector buttons required on poles. diag Elec W 118:158 Jl 11 '42
Boulder transmission line utilizes poured-in-place foundations. K. A. Reeder. il diags map Civil Eng 11:722-5 D '41
Compact tower design for switching war loads. il diag Elec W 117:1840 My 30 '42

ELECTRIC lines—Poles and towers—*Continued*

Creosoted poles used for 63-mile line. il Elec W 117:309 Ja 24 '42

Douglas fir poles used on TVA line. Elec W 117:676 F 21 '42

Effects of pole end bonding in lightning arrester protected cable installations. N. B. Walsh. il diags Edison Elec Inst Bul 10: 53-6+ F '42

Influence of towers and conductor sag on transmission-line shielding. R. W. Sorensen and R. C. McMaster. il diags Elec Eng 61: Trans 159-65 Mr '42

Los Angeles moves a steel tower. C. M. Allen. il Power Pl Eng 46:88-9 Ap '42

New X-ray meter aids pole inspection. M. Zucker, R. Stoker and L. H. Sampson. il diags Elec W 118:1090-2 O 3 '42

Pentachlorphenol substituted for creosote; Southern California Edison co. devises preservative treatment for western red cedar poles. F. B. Doolittle. il Elec West 89:58-61 O '42

Poles and pole treatment. R. H. Colley. bibliog maps Elec Eng 61:Trans 685-91 S '42

Preservation of pine poles, fir crossarms. Elec W 117:104+ Ja 10 '42

Preservative treatment of wood with pentachlorphenol. D. Chapman. Edison Elec Inst Bul 10:57-8 F '42

Programmed inspection betters pole utilization. Elec W 117:1542 My 2 '42

Radio type tower used for river crossing. il Elec W 117:1528 My 2 '42

Surge characteristics of tower and tower-footing impedances. R. Davis and J. E. M. Johnston. il diags Inst E E J 88 pt 2:453-65 O '41; Discussion. 89 pt 2:168 Ap '42

Surge propagation; measurement of the currents in lightning conductors and transmission-line towers; use of buried earth line. T. F. Wall. diags Engineering 154: 321-3 O 23 '42

Trailer and A-frame used to erect poles. O. Berger. il Elec W 117:1696 My 16 '42

Protection

Bayonets carry shield wire for line reliability, illustrations. A. F. Maxwell and F. C. Helwig. Elec W 118:1094-5 O 3 '42

Building and protecting power systems in wartime. F. M. Starr. il Power Pl Eng 46: 77-80 My '42

Coordinated fusing plus spill gaps give service continuity. C. N. Teed and J. F. Servis. il diag Elec West 88:37-9 Mr '42; Discussion. 88:99 Je '42

Design of 33,000 volt wood pole line. C. H. Lindell. bibliog diags Edison Elec Inst Bul 10:273-81 Jl '42; Same cond. Elec W 117:2055-8 Je 13 '42

Effects of pole end bonding in lightning arrester protected cable installations. N. B. Walsh. il diags Edison Elec Inst Bul 10: 53-6+ F '42

Expulsion tubes greatly reduce 66-kv. outages. W. O. Smith. diags map Elec W 118:932-4 S 19 '42

High tension distribution. W. A. Mears. Electrician 128:337-43 Ap 10 '42

Influence of towers and conductor sag on transmission-line shielding. R. W. Sorensen and R. C. McMaster. il diags Elec Eng 61: Trans 159-65 Mr '42

Lightning investigation on Wallenpaupack-Siegfried 220-kv line of Pennsylvania power and light company. E. Bell and F. W. Packer. bibliog diags Elec Eng 61:Trans 196-201 Ap '42

Performance of ground-relayed distribution circuits during faults to ground; data useful in joint use of poles by power and telephone facilities. C. L. Gilkeson, P. A. Jeanne and J. C. Davenport, jr. il Elec Eng 61:Trans 40-8 Ja '42

Pick-up and resistance of counterpoise systems. W. W. Lewis. Elec W 116:1720-1+ N 29 '41

Practical design of counterpoise for transmission-line lightning protection. E. Hansson and S. K. Waldorf. bibliog diags Elec Eng 61:Trans 599-603 Ag '42

Protective systems on 11kV distribution; abstracts. C. Freeland. Electrician 128:334-5 Ap 10 '42; Elec R (Lond) 130:469 Ap 10 '42

Relative value of different types of overcurrent protection for distribution circuits. G. F. Lincks. Elec Eng 61:Trans 19-25 Ja '42

Study of driven rods and counterpoise wires in high-resistance soil on Consumers power company 140-kv system. J. G. Hemstreet, W. W. Lewis and C. M. Foust. Elec Eng 61:Trans 628-33 S '42

Surge characteristics of tower and tower-footing impedances. R. Davis and J. E. M. Johnston. il diags Inst E E J 88 pt 2:453-65 O '41

Surge propagation; measurement of the currents in lightning conductors and transmission-line towers; use of buried earth line. T. F. Wall. diags Engineering 154: 321-3 O 23 '42

Temperature coordination of relays and fuses. M. R. Howell. Elec W 118:72-4 Jl 11 '42

Ten years of progress in lightning protection. bibliog(64 titles) diags Elec Eng 61: 187-92 Ap '42

See also

Lightning arresters

River crossing

Emergency structure for river crossing. il Elec W 117:1339 Ap 18 '42

Radio type tower used for river crossing. il Elec W 117:1528 My 2 '42

River span designed for flexible operation. il plan Elec W 116:2058+ D 27 '41

Safety measures

Accident-free erection of 104-mile, 138-kv. line; field safety and medical programs at portable construction camps. G. I. Page. il Elec W 117:1661-3 My 16 '42

Commissioners' memoranda; overhead line regulations; h.v. networks. Electrician 129: 328-9 S 25 '42

Cross country; safe transmission line construction. H. Hughes. il Nat Safety N 45: 22-3+ Je '42

Fuses set at angle are safer to service. il Elec W 117:2238 Je 27 '42

How to handle line and equipment clearances. Elec W 118:1140, 1298 O 3-17 '42

Live-line guards for hot-line maintenance. M. L. Fisher. il diag Elec W 116:1573 N 15 '41

Safety rules for the installation and maintenance of electric supply and communication lines; comprising part 2 and the grounding rules of the fifth edition National electrical safety code. U S Nat Bur Stand Handbook H32:1-177; 65c Supt. of doc. '41

Sleet problem

Rack for survey of glaze formation. E. A. Zehfuss. diag Elec W 117:2213 Je 27 '42

Sleet problems on electrified railroads. H. F. Brown. bibliog plans Elec Eng 61:Trans 589-93 Ag '42; Abstract. Ry Age 113:276-7 Ag 15 '42

Sleet-wind values from Beaufort scale. E. A. Zehfuss. Elec W 117:674 F 21 '42

Tables, calculations, etc.

Corner guying calculator. V. W. Palen. diags Elec W 118:634-5 Ag 22 '42

Features of transmission lines; table. C. A. Powel. Elec W 118:468 Ag 8 '42

High-frequency coaxial-line calculations. H. H. Race and C. V. Larrick. bibliog Elec Eng 61:Trans 526-30 Jl '42

How to calculate sag for various spans. Elec W 117:1530 My 2 '42

How to determine primary drop copper and ACSR; charts. F. C. Rand. Elec W 118:1293 O 17 '42

How to determine single-phase secondary drop, copper and ACSR; chart. F. C. Rand. Elec W 118:647 Ag 22 '42

How to estimate line insulation; charts. A. C. Monteith. Elec W 117:2252 Je 27 '42

Line clearance calculator. V. W. Palen. il Elec W 118:1120 O 3 '42

ELECTRIC lines—Tables, calculations, etc— *Continued*

Line current calculators. V. W. Palen. Elec W 117:520 F 7 '42

Loss calculators; charts. V. W. Palen. Elec W 117:846 Mr 7 '42

Simplified cable-sag calculations; varying conditions of temperature and loading. C. M. Goodrich. Civil Eng 12:104 F '42

Traveling waves on transmission lines. E. Weber. bibliog Elec Eng 61:302-9 Je '42

Testing

Lightning investigation at high altitudes in Colorado. L. M. Robertson, W. W. Lewis, and C. M. Foust. bibliog il diag Elec Eng 61:Trans 201-8 Ap '42

Lightning investigation on 132-kv transmission system of the American gas and electric company. I. W. Gross and G. D. Lippert. bibliog il diags Elec Eng 61:Trans 178-85 Ap '42

Lightning investigation on Wallenpaupack-Siegfried 220-kv line of Pennsylvania power and light company. E. Bell and F. W. Packer. bibliog diags Elec Eng 61:Trans 196-201 Ap '42

Measurement of lightning voltages and currents in Nigeria, 1938-1939. F. R. Perry, G. H. Webster and P. W. Baguley. bibliog diags Inst E E J 89 pt 2:185-203, pl 1-4 Je '42; Abstract. Elec R (Lond) 129:703-4 D 19 '41; Discussion. Inst E E J 89 pt 2:203-9 Je '42

Tree problem

Roadside development and overhead lines. G. D. Blair. il Roads & Sts 85:44-6 Ag '42

Underground lines

Flexibility features underground use of non-metallic cables. H. H. Minor and E. S. Dreischmeyer. il Elec W 117:1174-6 Ap 4 '42

New underground distribution utilizes non-leaded cables. H. H. Minor and E. S. Dreischmeyer. il Elec West 88:48-50 Ap '42

Rural supply problems; abstracts. P. E. Rycroft. Elec R (Lond) 131:520-1 O 23 '42; Electrician 129:443-5 O 23 '42

Systematized surveys reveal network load conditions; Oklahoma gas & electric company. R. W. Coursey. diags Elec W 116:1712-14+ N 29 '41

Tractor drawn rooter plows wire into soft rock. R. C. Dean. il diag Eng N 128:343 F 26 '42

Underground distribution systems in wartime. L. R. Gaty. bibliog Elec Eng 61:Trans 107-12 Mr '42; Abstract. Power Pl Eng 46:73 My '42

Vibration

Effects of ice and wind on 13,000-volt transmission line. J. G. Glassco. diag Elec Eng 61:174-5 Mr '42

Minimizes contact possibilities of transmission wires; elliptical-area analysis of possible and probable gallop. A. E. Davison. diags Elec W 116:2026-8+ D 27 '41

New hardware on Boulder lines; vibration dampers. il diag Elec W 116:1600+ N 15 '41

Wind load

Wind shielding of parallel conductors. G. D. Sheckels. il Elec Eng 61:354-7 Jl '42

California

G.O. 64-A is now G.O. 95; résumé of changes in Railroad commission ruling governing line construction in California. S. S. Bloom. Elec West 89:40-4 Jl '42

India

Obstacles beset transmission line builders in India; abstract. R. A. Black. Franklin Inst J 233:124 F '42

Power in India; difficulties attending transmission line construction. Electrician 129:97 Jl 24 '42

New York (state)

Seaway power link hit as crippling war effort; project of government to build transmission line to supply aluminum plant. Ry Age 112:411+ F 21 '42

Washington (state)

Transmission of power from Grand Coulee. il map Elec West 87:43 N '41

Western states

1941 power for defense, 1942 power for war; construction programs. il Elec West 88:44-61 F '42

ELECTRIC lines, Cooperative. See Electric service, Rural—Cooperative lines

ELECTRIC locomotives

Bigger and faster locomotives for Sweden. il Ry Age 112:1150 Je 13 '42

Electric control for steam boilers on Diesel-electric and straight electric locomotives. E. H. Burgess. il diag Elec Eng 61:Trans 604-6 Ag '42

Electric locomotive for Piedmont & Northern. il Ry Age 112:705 Ap 4 '42

Electric locomotive; some details of new Southern railway unit. il Electrician 128:82 F 6 '42

Electrics for Brazil. il Gen Elec R 45:361 Je '42

Mixed traffic electric locomotive. il diag Engineer 172:332-3 N 14 '41

New electric locomotive for L.N.E.R. il Elec R (Lond) 129:435-6 O 24 '41

Producing Westinghouse equipment for electric and Diesel locomotives. R. H. Timmons and J. A. Dorsner. il Mach 48:142-9 Ap '42

Railroad motive power of the future. F. B. Powers. Ry Age 112:702-3 Ap 4 '42

Single-phase a-c electric locomotives on the Pennsylvania railroad; protection and tonnage rating. H. C. Griffith. bibliog il diags Elec Eng 61:Trans 224-8 Ap '42

Southern Railway electric locomotive. il Engineer 173:75 Ja 23 '42

What coal equivalents do to fuel performance records; report of Fuel and traveling engineers' committee. Ry Age 113:692-3+ O 31 '42; Same. Ry Mech Eng 116:487-9 N '42

See also

Locomotives, Diesel-electric

Control

Improvements in preventive-coil control for a-c locomotives with particular reference to resistor transition. P. H. Hatch and H. S. Ogden. il diags Elec Eng 61:Trans 727-32 O '42

Design

Electric locomotives for freight or passenger service acquired by the New Haven. C. Kerr, jr. il plan Ry Age 113:402-7 S 12 '42

New Haven's latest a.c. electric locomotives. C. Kerr, jr. and F. L. Alben. il plan Ry Mech Eng 116:420-3 O '42

ELECTRIC locomotives, Industrial

Coal-handling systems; remote-controlled electric locomotive for switching and spotting central station. C. B. Briggs. Mech Eng 64:230-1 Mr '42

Electric locomotives for industry. il Engineer 174:284-5 O 2 '42; Electrician 129:409-10 O 16 '42; Elec R (Lond) 131:431 O 2 '42

ELECTRIC locomotives, Mine

General Electric heavy duty locomotives. Blast F & Steel Pl 29:[1146] N '41

Haulage on grade made safer by battery headlights. diag Coal Age 47:83-4 Je '42

Locomotive radios solve communication problem at Frances mine. il Coal Age 47:89-90 Ap '42

Mine locomotives for gathering and main haulage adapt themselves to mining needs of today. G. H. Shapter. il Coal Age 47:42-4 My '42

Ore haulage; Morenci mine. S. F. French. Min & Met 23:256-7 My '42

Underground transportation of ore at Noranda. H. A. Quinn. il diags Can Min J 62:680-2, 765-73 O-N '41

War maintenance; mine locomotives. il Coal Age 47:91-3 O '42

ELECTRIC locomotives, Storage battery

Changing batteries facilitated by special charging racks. il Coal Age 47:69 S '42

ELECTRIC losses

Current leakage through cascaded cells. Y. S. Tsou. Electrochem Soc Trans 82 (preprint 6):77-88 O '42

Impedance losses; effect of temperature variation in transformers. M. Nicholson-Steng. Elec R (Lond) 129:671-3 D 12 '41

Loss calculators; charts. V. W. Palen. Elec W 117:846 Mr 7 '42

Measurement of core loss and a.c. permeability with the 25-cm. Epstein frame. S. L. Burgwin. il diags Am Soc T M Proc 41:779-95 '41

Reduce system vars to trim losses. J. W. Butler. Elec W 117:2242 Je 27 '42

Simple method for figuring copper loss. B. E. Ellsworth. Elec W 17:1382+ Ap 18 '42

Though electrical current losses are small its voltage losses are heavy. Coal Age 47:63 Mr '42

ELECTRIC machinery

Alternating-current machines. A. F. Puchstein and T. C. Lloyd. 2d ed 655p $5.50 Wiley '42

Electrical circuits and machinery. v. 2, Alternating currents. F. W. Hehre and G. T. Harness. 635p $6 Wiley '42

How to get the most out of electrical equipment; rotating equipment. R. H. Rogers. il Factory Management 100:127-30 O '42

See also

Commutators
Electric apparatus and appliances
Electric driving
Electric engineering
Electric generators
Electric locomotives
Electric motors
Electric plants
Electric protective apparatus
Electric transformers
Electricity in mining
Electricity on the farm
Elevators, Electric
Hydroelectric plants
Mine hoisting, Electric
Pumping machinery, Electric
Refrigerators, Electric
Ship propulsion, Electric
Voltage regulators

Cooling

Natural air draft cools regulator. L. G. Tubbs. diag Elec W 117:1542+ My 2 '42

Design

Calculation and design of electrical apparatus. W. Wilson. 3d ed rev 240p 10s 6d Chapman & Hall, London '41

Eddy currents in a rotating disk. W. R. Smythe. diags Elec Eng 61:Trans 681-4 S '42

Equivalent circuit of the salient-pole synchronous machine. G. Kron. diags Gen Elec R 44:679-83 D '41

Steady-state theory of the amplidyne generator. T. D. Graybeal. bibliog diag Elec Eng 61:Trans 750-6 O '42

Drying

Infra-red banks dry motor in day. il Elec W 116:1910 D 13 '41

Failures

Unusual shaft failure; balance wheel of a large motor generator set. il Locomotive 44:77-8 Jl '42

Manufacture

See also

Electric motors—Manufacture

Protection

Maintenance and corona blackout; use of semi-conducting material, Coronox, to protect windings. J. S. Askey. il diags Power Pl Eng 46:76-9 Ag '42

Tables, calculations, etc.

Equivalent circuits for the hunting of electrical machinery. G. Kron. bibliog diags Elec Eng 61:Trans 290-6 My '42

Temperature

Application of apparatus and conductors under various ambient-temperature conditions. R. E. Hellmund and P. H. McAuley. diags Elec Eng 61:Trans 553-8 Ag '42

Transportation

L.N.E.R. transport feat; transportation electric stator. il Mech Handling 29:180 O '42

Windings

Electrical maintenance of large rotating machinery. J. S. Askey. il diags Power Pl Eng 46:82-4 Jl '42

Maintenance and corona blackout; use of semi-conducting material, Coronox, to protect windings. J. S. Askey. il diags Power Pl Eng 46:76-9 Ag '42

ELECTRIC measurements

Alternating-current apparatus for measuring dielectric constants. B. E. Hudson and M. E. Hobbs. diags R Sci Instr 13:140-3 Ap '42

Anomalies in conductivity measurements in presence of hydrogen peroxide. M. Bobtelsky and A. E. Simchen. bibliog Am Chem Soc J 64:454-61 F '42

Audio frequency aids bushing tests. il Elec W 117:2248+ Je 27 '42

Cathode drop of an arc. G. H. Fett. bibliog diag Welding J 21:sup27-9 Ja '42; Same cond. J Ap Phys 12:436-8 My '41

Current-transformer errors; measurement by an exciting-current method. G. F. Freeman. diag Elec R (Lond) 131:41-2 Jl 10 '42

Dielectric constant, power factor, and conductivity of the system rubber-calcium carbonate. A. H. Scott and A. T. McPherson. bibliog diags J Research Nat Bur Stand 28:279-96 Mr '42

D.c.-a.c. correlation in dielectrics. J. B. Whitehead and G. S. Eager, jr. bibliog il diags J Ap Phys 13:43-9 Ja '42

Direct current amplifier and its application to industrial measurements and control; abstract and discussion. D. C. Gall. Electrician 128:249-51 Mr 20 '42

Field investigation of the characteristics of lightning currents discharged by arresters. I. W. Gross, G. D. McCann and E. Beck. il diags Elec Eng 61:Trans 266-71 My '42

Field measurements of insulation. E. A. Burton, J. S. Forrest and T. R. Warren. bibliog diags Inst E E J 89 pt 2:288-305 Ag '42; Abstract. Electrician 128:123-4 F 13 '42; Discussion. Inst E E J 89 pt 2:305-16 Ag '42

Impedance losses; effect of temperature variation in transformers. M. Nicholson-Steng. Elec R (Lond) 129:671-3 D 12 '41

Lightning investigation at high altitudes in Colorado. L. M. Robertson, W. W. Lewis, and C. M. Foust. bibliog il diag Elec Eng 61:Trans 201-8 Ap '42

Lightning investigation on 132-kv transmission system of the American gas and electric company. I. W. Gross and G. D. Lippert. bibliog il diags Elec Eng 61:Trans 178-85 Ap '42

Lightning investigation on Wallenpaupack-Siegfried 220-kv line of Pennsylvania power and light company. E. Bell and F. W. Packer. bibliog diags Elec Eng 61:Trans 196-201 Ap '42

Location of ground faults on series electrolytic cell systems. V. F. Hanson and F. G. LaViolette. diags Electrochem Soc Trans 82 (preprint 5):65-75 O '42

Maximum-demand metering; a study of the timing and length of the integration period. D. J. Bolton. diags Inst E E J 89 pt 2:95-108 Ap '42; Abstract. Elec R (Lond) 129:665-8 D 12 '41; Discussion. Inst E E J 89 pt 2:108-20 Ap '42

Measurement of lightning voltages and currents in Nigeria, 1938-1939. F. R. Perry, G. H. Webster and P. W. Baguley. bibliog diags Inst E E J 89 pt 2:185-203, pl 1-4; Discussion. 203-9 Je '42

Measurement of lightning voltages and currents in South Africa and Nigeria, 1935 to 1937. F. R. Perry. bibliog diags pl Inst E E J 88 pt 2:69-87 Ap '41; Discussion. 88 pt 2:521-4 D '41

Measuring crest voltage; capacitor-galvanometer method; abstract. G. W. Bowdler. Elec R (Lond) 130:636 My 15 '42; Discussion. Electrician 128:487-8 My 15 '42

ELECTRIC measurements—*Continued*

Modern impulse generators for testing lightning arresters. T. Brownlee. bibliog il diags Elec Eng 61:Trans 539-44 Ag '42

Null methods applied to corrosion measurements. J. M. Pearson. diags Electrochem Soc Trans 81 (preprint 21):317-40 Ap '42

Power-factor tests. G. W. Stubbings. diags Elec R (Lond) 131:301-2 S 4 '42

Progress in engineering knowledge during 1941. P. L. Alger. bibliog diag Gen Elec R 45:103-5 F '42

Recorder measures lightning current; photographic surge-current recorder. G. D. McCann. il diag Elec W 117:1374 Ap 18 '42

Rectilinear rectification applied to voltage integration. S. S. Stevens. diags Electronics 15:40-1 Ja '42

Resistance transformations; delta-star and star-delta units. G. Stubbings. il Electrician 127:307-8 N 28 '41

Sensitive measurement of impedance, reactance, frequency, and phase relationships with an electronic phase bridge. R. H. Brown. bibliog diags R Sci Instr 13:277-81 Jl '42; Abstract. Electronics 15:96+ N '42

Some measurements on the validity of the principle of superposition in solid dielectrics. H. Silva and B. Gross. Phys R 60: 684-7 N 1 '41

Spot welding; contact resistance. R. F. Tylecote. bibliog il diags Welding J 20:sup 591-602 D '41

Supply system maintenance; ready aid afforded by electrical measurements. C. W. Marshall. Elec R (Lond) 129:733-4 D 26 '41

Surge characteristics of tower and tower-footing impedances. R. Davis and J. E. M. Johnston. il diags Inst E E J 88 pt 2:453-65 O '41

Symmetrical component currents; a 2-watt-meter method of measurement. G. W. Stubbings. Electrician 127:255-6 O 31 '41

See also

Dielectric constants
Dielectrics
Electric engineering—Tables, calculations, etc.
Electric instruments
Electric meters
Electric resistance
Electric testing
Electric units
Electric waves
Galvanometers
Magnetic measurements
Oscillographs
Photoelectric cells—Measurement uses
Potential, Electric
Potentiometers
Radio measurements
Vacuum tubes—Measurement uses
Voltmeters
Watt hour meters
Wattmeters
Wheatstone bridge
Wien bridge

ELECTRIC meters

Arm lifts pen from graphic meter charts. J. H. Melville. il diag Elec W 117:111 Ja 10 '42

Conserves mileage and manpower; new practices with reference to meter disconnects. Elec W 117:2266 Je 27 '42

Design of long-scale indicating instruments. A. J. Corson, R. M. Rowell and S. C. Hoare. bibliog il diags Elec Eng 61:Trans 318-27 Je '42

Device guides friction adjustment. il diag Elec W 117:1363 Ap 18 '42

Electrical developments of 1941; meters and instruments. G. Bartlett. il Gen Elec R 45:19-21 Ja '42

Glareless illumination for instrument boards; direct lighting supplemented by plastic meter cases or reflecting shelves. E. D. Tillson. il diags Elec W 116:1715-16+ N 29 '41

How to connect controls, meters and relays for 60- and 100-kv. transmission lines; diagram. Elec W 118:322 Jl 25 '42

How to connect controls, meters and relays for station service transformer banks; diagram. Elec W 117:1541 My 2 '42

How to connect controls, meters and relays for three-winding transformer banks; wiring diagram. Elec W 118:966 S 19 '42

Improved time-interval meter for testing protective gear relays. R. W. Langley. diags Electrician 127:249-50 O 31 '41

Instrument requirements for high-frequency power applications. L. J. Lunas. il diags Instruments 14:392-3+ D '41

Meter registers average voltage. il diag Elec W 118:947-8 S 19 '42

Metering a factor in International minerals & chemical corp.'s phosphate operations; completely electrified mines and plants. J. H. Edwards. il Eng & Min J 143:43 Je '42

Meters left unsealed when customer moves. Elec W 117:691 F 21 '42

Miniature instruments. J. M. Whittenton. il diags Gen Elec R 45:501-4 S '42

Optional-control system of domestic electricity supply. P. Schiller. diags Inst E E J 89 pt 2:170-4; Discussion. 174-84 Je '42

Peak-factor meter for alternating and direct current. E. H. W. Banner. diags Inst E E J 89 pt 2:369-71 Ag '42

Power pooling introduces new metering problems. diags Power 86:635-6 S '42

Progress in the art of metering electric energy. il Elec Eng 60:421-7, 469-78, 540-6, 581-9 bibliog and patent list(p587-9) S-D '41 [reprint 36p Am. inst. of electrical engineers, N.Y.]

Quadruplex checks differential relays; combination of three ammeters and an ohmmeter. J. H. Kinghorn. il diag Elec W 116: 1752 N 29 '41

Reactive power metered as in-out magnetizing; clarity facilitated by labeling varmeter scales. G. S. Lunge. il diags Elec W 117:1340-1 Ap 18 '42

Socket conversions done on 9-in. lathe. il Elec W 117:1038 Mr 21 '42

Survey of instrument design and performance. W. Phillips. Inst E E J 89 pt 1:52-5 Ja '42

Wartime meters; uses for uncertified types. J. E. N. Ashworth. diags Elec R (Lond) 130:75-6 Ja 16 '42

See also

Ammeters
Demand meters
Electric measurements
Electric testing
Frequency meters
Voltmeters
Watt hour meters
Wattmeters

Bearings

New jewel for indicating instruments. F. K. McCune and J. H. Goss. il diags Elec Eng 61:Trans 673-6 S '42

Synthetic jewels proposed for meters. Elec W 117:501 F 7 '42

Patents

Meter patents listed in the Patent office gazette, 1872-1940. Elec Eng 60:587-9 D '41

Protection

Meter failures guide REA to correctives. F. B. Scott. il maps Elec W 118:1086-7 O 3 '42

Standards

American standard code for electricity meters. 4th ed 128p $2 Edison electric inst, New York '41

Storage

Simple construction for meter rack. E. E. Doudna. il diag Elec W 118:170 Jl 11 '42

Testing

Duplex testing increases laboratory production. il Elec W 117:2100+ Je 13 '42

Field testing of socket meters. L. E. Wiggans. Elec West 88:90-1 Je '42; Excerpts. Elec W 118:327 Jl 25 '42

Gang test board has novel features. H. A. Tower. diag Elec W 117:316 Ja 24 '42

Heavy current meter testing. G. W. Stubbings. diag Electrician 129:413-14 O 16 '42

Improvement in modern meter-testing technique. E. E. Lynch and M. A. Princi. bibliog il diags Elec Eng 61:Trans 218-23 Ap '42

Meter balance tests. G. W. Stubbings. Elec R (Lond) 129:739-40 D 26 '41

Meter tables combine strobo and photoelectric. L. D. Price. il Elec W 118:1262-3 O 17 '42

New test set aids meter research. G. J. Wey. il diag Elec W 117:2082 Je 13 '42

Remove jewels when meters are tested. Elec W 117:1024 Mr 21 '42

ELECTRIC meters—Testing—*Continued*

Safeguards high-potential meter tests by women. il diag Elec W 117:1871-2 My 30 '42

ELECTRIC mine lamps. See Safety lamps, Electric

ELECTRIC moment

Determination of the angle between the phenyl groups in αα-diphenylethylene, from electric dipole moment measurements. G. E. Coates and L. E. Sutton. Chem Soc J p567-70 S '42

Dipole moment and resonance in heterocyclic molecules containing nitrogen and sulfur. P. F. Oesper, G. L. Lewis and C. P. Smyth. bibliog Am Chem Soc J 64:1130-3 My '42

Dipole moment and structure of urea and thiourea. W. D. Kumler and G. M. Fohlen. bibliog Am Chem Soc J 64:1944-8 Ag '42

Dipole moment of a free radical. J. Turkevich, P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:1179-80 My '42

Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

Dipole moments and structures of five organometallic halides. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:173-5 Ja '42

Dipole moments as a tool in the determination of structure. E. Bergmann and A. Weizmann. Chem R 29:553-92 bibliog (201 references, p588-92) D '41

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Dipole moments of cyclohexanol and cyclohexanone in dioxane. I. F. Halverstadt and W. D. Kumler. Am Chem Soc J 64:1982 Ag '42

Dipole moments of some bile acids. W. D. Kumler and I. F. Halverstadt. Am Chem Soc J 64:1941-3 Ag '42

Dissociation constant, dipole moment and structure of α-nitrotetronic acid. W. D. Kumler. Am Chem Soc J 64:1948-50 Ag '42

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Electric moments of inorganic halides in dioxane; phosphorus, arsenic and antimony trihalides. P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:614-17 Mr '42

Electric moments of some organomercuric halides in dioxane. B. C. Curran. bibliog Am Chem Soc J 64:830-3 Ap '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Electric quadrupole moments of light and heavy nuclei. S. B. Welles. bibliog Phys R 62:197-203 S 1 '42

Electrical properties of solids; plasticized polyvinyl chloride. D. J. Mead, R. L. Tichenor and R. M. Fuoss. bibliog Am Chem Soc J 64:283-91 F '42

Electromagnetic mechanism of the beta phosphorescence of fluorescein in acid solution. S. I. Weissman and D. Lipkin. bibliog il diags Am Chem Soc J 64:1916-18 Ag '42

Electromagnetic properties of nuclei in the meson theory. S. T. Ma and F. C. Yu. bibliog Phys R 62:118-26 Ag 1 '42

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 32:357-61 O 1 '42

Magnetic moments at high frequencies. L. Page. Phys R 60:675-84 N 1 '41

Magnitude of the solvent effect in dipole-moment measurements; determination of distortion polarisation and its additivity in the alkyl and aryl halides. A. Audsley and F. R. Goss. Chem Soc J p864-73 D '41

Magnitude of the solvent effect in dipole-moment measurements; induced and mesomeric moments of the alkyl halides and the halogenobenzenes. A. Audsley and F. R. Goss. Chem Soc J p497-500 Ag '42

Magnitude of the solvent effect in dipole-moment measurements; the solvent-effect constant and the moments of alkyl iodides. A. Audsley and F. R. Goss. Chem Soc J p358-66 My '42

Reduction of dipole moment by steric hindrance in di-*t*-butylhydroquinone and its dimethyl ether. P. F. Oesper, C. P. Smyth and M. S. Kharasch. bibliog Am Chem Soc J 64:937-40 Ap '42

Tensor forces and heavy nuclei. G. M. Volkoff. bibliog Phys R 62:126-33 Ag 1 '42

ELECTRIC motor generators

Continuous power for marine gear cutting. A. A. Ross. il diag Elec W 116:1742, 1744 N 29 '41

Direct current conversion equipment in the electrochemical industry. L. H. Fletemeyer. il Electrochem Soc Trans 81 (preprint 32): 455-68 Ap '42

D-c oil well drill rig on skids. L. D. Banderob and P. L. Savage. il diag Elec West 89:51-2 O '42

How to pump power from varying-speed source into constant-frequency system; loading airplane engines while being tested. G. E. Cassidy. diag Gen Elec R 44:590-2 N '41; Abstract. Steel 111:62+ D 28 '42

Idle motor generator sets serve new purposes. il Elec W 118:154 Jl 11 '42

Sine wave test set is flexible. il Elec W 116:1750+ N 29 '41

ELECTRIC motors

Auxiliary motors and control gear; improvements and output maintained by Metrovick. il Chem Age (Lond) 46:51 Ja 24 '42

Co-ordinating electric pipe-line pumping equipment. W. G. Taylor. il Pet Eng 13: 104+ Mr '42

Electric motors in industry. D. R. Shoults and C. J. Rife. 389p $4 Wiley '42

Electrical developments of 1941; motors. G. Bartlett. il Gen Elec R 45:22-4 Ja '42

Electrical engineering in 1941. il Engineer 173:46-7 Ja 16 '42

Intelligent use of horsepower ratings conserves vital metals. A. C. Streamer. Concrete (mill sec) 50:272 N '42; Same abr. Heating-Piping 14:670 N '42

Lower costs; why management studies how to improve power factor. F. W. Richart. Coal Age 46:54-5, 58 D '41

Machine-tool motors; choosing most suitable type. il Elec R (Lond) 129:735-6 D 26 '41

Machine tool motors; types for various drives. Electrician 128:28 Ja 9 '42

Make one pound of copper do the work of two. L. A. Umansky. Gen Elec R 45:555-6 O '42; Abstract. Blast F & Steel Pl 30: 1043-4 S '42; Same. Steel 111:104 O 12 '42; Same. Power 86:920c+ D '42

Motor troubles; elusive faults and hidden defects. diags Elec R (Lond) 131:425-8 O 2 '42

New equipment. il Iron Age 149:62-3 F 12 '42

Plug reversing motors. il diag Product Eng 12:639 D '41

Selecting, installing and maintaining electric motors. O. F. Vea. il Aero Digest 40: 172+ Je '42

WPB tightens curb on electric motors. Elec W News ed 118:371 Ag 1 '42

WPB urges maximum use of all available electric motors. Elec Eng 61:536-7 O '42; Mech Eng 64:820-1 N '42

See also

Armatures
Commutators
Electric driving
Electric locomotives
Electric machinery
Electric transformers
Electricity in mining
Gearmotors
Pumping machinery, Electric

Bearings

Ball bearing service fundamentals. Elec West 89:67 Ag '42

ELECTRIC motors—Bearings—*Continued*

Lead-arsenic bearing metal is making successful test; car motor bearings. F. E. Uhl. il Transit J 86:215-16 Je '42

Lubrication and bearings. H. Greaves. Elec R (Lond) 130:662 My 22 '42

Preventing ball bearing failures. Elec West 88:111 Je; 89:59 Jl '42

Relation of bearing surface condition to bearing performance. W. Mikelson. il diags Gen Elec R 44:669-72 D '41

Care

Care and maintenance of electric motors. Engineering 153:517 Je 26 '42; Same. Electrician 128:640-1 Je 26 '42

Care and upkeep of electric motors. J. J. Davey. il Marine Eng 47:80-3+ F '42

Care of direct-current motors for driving auxiliaries on shipboard. A. O. Loomis. il diags Marine Eng 47:130-7 S '42

Electric-motor maintenance. Oil & Gas J 40:191-2 Ap 30 '42

Good maintenance prevents motor fires. Nat Safety N 46:87 S '42

How to select, install and maintain electric motors. O. F. Vea. il Gen Elec R 45:335-42 Je '42; Same. Paper Ind 24:278-84 Je '42; Same. Marine Eng 47:116-22 Jl '42; Same. India Rubber W 106:450-2, 576-8+ Ag-S '42; Same, with additional table. Heat & Ven 39:36-42 Ag '42; Same. Steel 111:124-5+ O 5 '42; Same cond. Chem & Met Eng 49:97-8 Jl '42; Same cond. Eng & Min J 143:65-6 Je; 66-7 Jl; 117-18 Ag '42; Excerpt. Food Ind 14:56+ Ag '42

Know how to take care of single-phase motors? D. A. Yates. il diags Factory Management 100:61-3 Ap '42

Maintenance essential to production. C. W. Fick. il Power Pl Eng 46:118, 120+ O '42; Abstract. Eng & Min J 143:65 Je '42

Maintenance of motors in the chemical industry. W. W. McCollough and H. E. Dralle. il Chem Ind 50:796-9+ Je '42

More about motors; their inspection and lubrication must be systematic. Eng & Min J 143:66-7 Jl '42

Motor upkeep program that gets results. A. G. Fesler. il Factory Management 100:115-18 N '42

Peak production requires motor preparedness. F. V. Faulhaber. India Rubber W 105:577 Mr '42

Something new in the care of commutators and rings. L. A. Leonard. Metal Finishing 40:203-5 Ap '42

Upkeep of electrical equipment. R. H. Rogers. il Textile World 92:80-1 Ap '42

War maintenance; electric motors. il Coal Age 47:105-7 O '42

Watch that motor! W. W. McCullough. il Am Mach 86:431-3 My 14 '42

Cleaning

Power brush cleans connections fast. il Elec W 118:815 S 5 '42

Control

Automatic control for grinding machine feed motors. il diag Electronics 15:82 N '42

Before you reapply controls; changing a motor controller from original application to another. L. E. Markle. il diags Factory Management 100:116-18 Ja '42

Clock-controlled governor for close speed regulation. J. C. Prescott, M. N. Karaosman. diags Inst E E J 89 pt 2:210-16 Je '42

Electronic control of motors in textile industry; Thy-mo-trol system. A. P. Mansfield. il diags Rayon 23:557-8 S '42

Factors contributing to improving electric service by means of high-speed switching and utilization of stored energy. J. T. Logan and J. H. Miles. il Elec Eng 60:Trans 1012-16 D '41

Faster, slower with multispeed motors. R. B. Temple. il diags Factory Management 100:97-9 F '42

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:130-2 O '42

How to provide a drive having a rapid acceleration and retardation and quick return motion; amplidyne controlled motor; saw-mill log carriage. H. B. LaRoque. il diags Gen Elec R 44:619-20 N '41

New ideas in motor control. M. A. Hyde. il Oil & Gas J 40:86-7+ Mr 26 '42

Rectifier in field circuit improves motor control. L. E. Miller. il diags Power 86:733 O '42

See also

Electric motors, Direct current—Control

Electric motors, Induction—Control

Cooling

Motor room ventilation in steel mills. T. J. Ess. diags plans Heat & Ven 39:25-30 Ag '42

Design

Motor frame designs cause maintenance difficulties. T. Trail. Elec W 117:1182 Ap 4 '42

See also

Electric motors, Alternating current—Design

Drying

Dry motors in damp places. diag Elec W 117:112+ Ja 10 '42

Large motors baked by near infra-red. il Elec W 116:2063 D 27 '41

Oscillate infra-red to dry coils. il Elec W 117:1690 My 16 '42

Fractional horsepower

Fitting miniature motors to the job. V. H. Hardy. il Machine Design 14:117-19+ Ap '42

How to select small electric motors; data sheet. Mach 48:133 Je '42

Synchronous motor designed for starting torque and slow speed. P. MacGahan. il diags Product Eng 13:502 S '42

Temperature-aging tests on class-A-insulated fractional-horsepower motor stators. J. A. Scott and B. H. Thompson. bibliog Elec Eng 61:Trans 499-501 Jl '42

Timing motor uses hysteresis principle. il Elec W 117:1195-6 Ap 4 '42

What's behind the name-plate of fractional h-p motors? tabulation. Elec West 89:77 O; 65-6 N '42

Lubrication

Lubrication and bearings. H. Greaves. Elec R (Lond) 130:662 My 22 '42

Maintenance of ring lubricated bearings. W. M. Halliday. Mech Handling 29:73-4 Ap '42

More about motors; their inspection and lubrication must be systematic. Eng & Min J 143:66-7 Jl '42

Part of correct lubrication in equipment maintenance. S. S. Hansen. il Power Pl Eng 46:74-5 S '42

Watch that motor! W. W. McCullough. il Am Mach 86:431-3 My 14 '42

Manufacture

Aluminum rotor casting. il Iron Age 149:49 Ap 9 '42

Breaking bottlenecks in production; Star electric motor co., Bloomfield, N.J. F. Eberhard. il Factory Management 100:89-90+ Ag '42

Continuous fluorescent in motor manufacturing; case study in approved conversion lighting. diag Elec W 118:110 Jl 11 '42

Developing an efficient procedure for machining motor shafts. C. J. Andersen. il Mach 48:136-8 Mr '42

Interesting technique used on large motor frame. R. L. Hartford. il Foundry 70:71+ F '42

New methods on new motors; General electric company. C. J. Andersen. il Am Mach 86:50-1 F 5 '42

Reliance electric & engineering company improves its rotor casting department. il Heat & Ven 39:30 Je '42

Tripling production for war needs; Westinghouse electric & mfg. co. J. V. Hunt. il Steel 110:54-5+ F 2 '42

ELECTRIC motors—*Continued*

Noise

Field harmonics in induction motors. M. M. Liwschitz. bibliog(55 titles) Elec Eng 61: Trans 797-803 N '42

Protection

Can your motors carry the load? guide for safe operation. A. F. Lukens. il Power 86: 542-4 Ag '42

Fuses vs. thermal circuit breakers for low-voltage motor starters. W. G. Taylor. il Oil & Gas J 41:56, 58-9 Ag 27 '42

How to obtain safer operation of large motors in hazardous atmospheres; inert-gas-filled motors. B. M. Mills. il diag Gen Elec R 44:601-4 N '41

Motor insulation, heat, and moisture. P. H. McAuley. bibliog Elec Eng 61:Trans 707-12 O '42

Overheating of electric motors. diag Electrician 129:139-42 Ag 7 '42

Safeguarding a bilge pump. P. C. Ziemke. diag Power Pl Eng 46:115 My '42

Thermal co-ordination of motors, control, and their branch circuits on power supplies of 600 volts and less. B. W. Jones. Gen Elec R 45:273-9 My '42; Same. Elec Eng 61:Trans 483-7 Jl '42

Rating

Dual rating of electrical apparatus. Elec Eng 61:61-2 Ja '42

Repair

Getting along with obsolete machinery; crushing machine motors. J. B. Hess. Eng & Min J 143:67-8 O '42

Standards

WPB draws up standards governing electric motors. Nat Pet N 34:7 Ag 19 '42

Starting

Characteristics of motor-starting methods; tabulation. P. L. Alger. Gen Elec R 45:112 F '42

Delta-star starting. W. Acton. Elec R (Lond) 131:296 S 4 '42

Fuses vs. thermal circuit breakers for low-voltage motor starters. W. G. Taylor. il Oil & Gas J 41:56, 58-9 Ag 27 '42

Grading of d.c. starters. G. F. Freeman. bibliog Inst E E J 88 pt 2:412-14 O '41

Preventing and correcting voltage dips. C. W. Drake. il Factory Management 100: 115-17 O '42

To keep little motors going when the big motor starts. W. K. Boice. il Factory Management 100:99-100 My; 118-20 Jl '42

See also

Electric motors, Direct current—Starting

Electric motors, Induction—Starting

Electric motors, Synchronous—Starting

Tables, calculations, etc.

Equivalent circuits for the hunting of electrical machinery. G. Kron. bibliog diags Elec Eng 61:Trans 290-6 My '42

See also

Electric motors, Induction—Tables, calculations, etc.

Temperature

Calorimetric method for determining efficiencies of electric machines. V. Siegfried and C. W. Thulin. bibliog il diag Elec Eng 61:Trans 530-2 Jl '42

Can your motors carry the load? guide for safe operation. A. F. Lukens. il Power 86: 542-4 Ag '42

Overheating of electric motors. diag Electrician 129:139-42 Ag 7 '42

Temperature-aging tests on class-A-insulated fractional-horsepower motor stators. J. A. Scott and B. H. Thompson. bibliog Elec Eng 61:Trans 499-501 Jl '42

Thermal co-ordination of motors, control, and their branch circuits on power supplies of 600 volts and less. B. W. Jones. Gen Elec R 45:273-9 My '42; Same. Elec Eng 61:Trans 483-7 Jl '42

Testing

Calorimetric method for determining efficiencies of electric machines. V. Seigfried and C. W. Thulin. bibliog il diag Elec Eng 61:Trans 530-2 Jl '42

Electrical balancing machines. S. F. Philpott. il diags Elec R (Lond) 131:37-40 Jl 10 '42

Motor insulation, heat, and moisture. P. H. McAuley. bibliog Elec Eng 61:Trans 707-12 O '42

ELECTRIC motors, Alternating current

Alternating current in the United States navy. H. G. Rickover. il Elec Eng 61:289-302 Je '42

A C motors and control gear. A. J. Coker. 216p $2.50 Chemical pub. co. '41

Alternating-current operation of overhead cranes. Engineering 152:496-7 D 19 '41

Application of electric motors to refrigeration and air conditioning. F. R. Lininger. il Refrig Eng 42:372-4+ D '41

Electricity in the engineering industry. H. H. Sennett. Inst E E J 89 pt 1:193-7 Ap '42

General Electric tri-clad motors. il Blast F & Steel Pl 30:453 Ap '42

Know how to take care of single-phase motors? D. A. Yates. il diags Factory Management 100:61-3 Ap '42

Quick switching for a.-c. motors; abstract. P. C. Ziemke. Eng & Min J 143:69-70 Jl '42

See also

Electric motors, Induction

Electric motors, Synchronous

ELECTRIC motors, Direct current

Care of direct-current motors for driving auxiliaries on shipboard. A. O. Loomis. il diags Marine Eng 47:130-7 S '42

Commutation; theories, faults and remedies. diags Electrician 128:111-13, 163-4 F 13, 27 '42

Currents in d.c. armatures. Electrician 128: 185-7 Mr 6 '42

Fundamentals of trolley coach motor maintenance. C. A. Atwell. il Transit J 85:462-5 D '41

Control

Direct-current control circuits; data sheets. O. G. Rutemiller. diags Factory Management 99:102, 104 N; 100, 102 D '41

Electronic motor control; General Electric Thy-mo-trol. il Blast F & Steel Pl 29:1240 D '41; Same. Power Pl Eng 46:112+ F '42

Grading of d.c. starting resistances; derivation and application of simple method of calculation. W. De Renzi. Electrician 128: 19-21 Ja 9 '42

Multi-field pilot generator gives all-automatic motor regulation. C. W. Drake. il diags Product Eng 13:521-3 S '42

Design

Series stability windings and their dependence upon the working flux. R. S. Blackledge. diags Inst E E J 89 pt 2:153-61 Ap '42

Repair

D.c. motor troubles and remedies; data sheets. P. D. Ross. Factory Management 100:146, 148 N '42

Motor frame designs cause maintenance difficulties. T. Trail. Elec W 117:1182 Ap 4 '42

Starting

Grading of d.c. starters. G. F. Freeman. bibliog Inst E E J 88 pt 2:412-14 O '41

Grading of d.c. starting resistances; derivation and application of simple method of calculation. W. De Renzi. Electrician 128: 19-21 Ja 9 '42

ELECTRIC motors, Direct current—Starting—*Continued*

Preformed d.c. power; resistance in generator field for picking up heavy cross-the-line loads. J. M. Rairigh. il diag Coal Age 47:41-3 Ja '42

ELECTRIC motors, Induction

Adjustable-varying-speed direct-connected drive for large boiler feed pumps. A. E. Beardmore. il Gen Elec R 45:159-60 Mr '42

Can your motors carry the load? guide for safe operation. A. F. Lukens. il Power 86:542-4 Ag '42

Electric motor performance. Elec West 88:45 Mr; 61 Ap '42

Faster, slower with multispeed motors. R. B. Temple. il diags Factory Management 100:97-9 F '42

Field harmonics in induction motors. M. M. Liwschitz. bibliog(55 titles) Elec Eng 61:Trans 797-803 N '42

Flame-proof induction motors; design for safe operation with inflammable vapours. H. Seymour. Chem Age (Lond) 45:314-15 D 20 '41

General Electric motors for magnesium dust locations; polyphase induction motors. il Gen Elec R 45:540 S '42; Same. Chem Ind 51:81 Jl '42

How to obtain compact and powerful adjustable-speed drive; water-cooled motor operating on high-frequencies; testing model propellers. C. C. Clymer. il Gen Elec R 44:599-600 N '41; Same cond. Aero Digest 39:197+ D '41

Motors for power-plant pumps meet special requirements. K. M. Patterson. il Power 86:714-16 O '42

Polyphase a-c motors; motor types and applications explained and listed. H. C. Park. Elec West 88:59-60 My '42

Progress in engineering knowledge during 1941; induction machines. P. L. Alger. diags Gen Elec R 45:96-7 F '42

Purchased power in oil refining. W. H. Stueve. Oil & Gas J 41:50 Jl 16 '42

Special clutch motor tests superchargers. il Elec W 117:832 Mr 7 '42

Theory of the brush-shifting a-c motor. A. G. Conrad, F. Zweig and J. G. Clarke. diags Elec Eng 60:Trans 829-36; 61:Trans 502-13 Ag '41, Jl '42

They tore out all the motors and put in new ones! M. D. Valentine co. il Brick & Clay Rec 101:15-18 O '42

Transient overspeeding of induction motors. R. W. Ager. Elec Eng 60:Trans 1030-2 D '41

Wartime selection and maintenance of refinery induction motors. B. M. Mills. il Nat Pet N 34 pt 2:R355-60 O 28 '42

Control

Electric induction motor at Wright field. Science 96:sup10 Jl 3 '42

Know your pump-motor controls. H. W. Costello. il diags Power 86:7-9 Ja '42

Precision speed control for world's largest induction motor. R. R. Longwell and M. E. Reagan. il diags Elec Eng 61:Trans 634-8 S '42

Starting

Do's and don't's in starter maintenance. W. W. McCullough. il Factory Management 100:113-15 Jl '42

General Electric a-c. combination magnetic reversing starters. il Pet Eng 13:129 Ap '42

Metropolitan-Vickers switch starters. il Electrician 129:321-2 S 25 '42; Elec R (Lond) 131:497 O 16 '42

Three-phase motor starting on 4-wire systems; method for approximating voltage regulation. B. Shipley. Elec W 116:1600 N 15 '41

Tables, calculations, etc.

Apparent-impedance method of calculating single-phase-motor performance. W. J. Morrill. diag Elec Eng 60:Trans 1037-41 D '41

Current loci for the capacitor motor. T. C. McFarland. diags Elec Eng 61:Trans 152-6 Mr '42

ELECTRIC motors, Railway

Electroliner's control and motor equipment. G. R. Purifoy. il Mass Transportation 37:326-8 N '41

Exhibits of transit equipment; electric vehicle motors and control; pictorial review. Transit J 86:338-9 S '42

Lead-arsenic bearing metal is making successful test; car motor bearings. F. E. Uhl. il Transit J 86:215-16 Je '42

Modern electrical equipment for industrial Diesel-electric locomotives. L. Greer. il diag Elec Eng 61:Trans 231-2 Ap '42; Same. Diesel Power 20:224-7+ Mr '42

Progress in design of electrical equipment for large Diesel-electric locomotives. G. F. Smith. Elec Eng 61:Trans 130-1 Mr '42; Same cond. Ry Age 112:338 F 7 '42

Manufacture

Producing Westinghouse equipment for electric and Diesel locomotives. R. H. Timmons and J. A. Dorsner. il Mach 48:142-9 Ap '42

Testing

Electric motor testing set. il Transit J 86:216-17 Je '42

ELECTRIC motors, Synchronous

Equivalent circuit of the salient-pole synchronous machine. G. Kron. diags Gen Elec R 44:679-83 D '41

Operation of electric-drive ships. F. V. Smith. diags Marine Eng 47:143-8 S '42

Progress in engineering knowledge during 1941; synchronous machines. P. L. Alger. Gen Elec R 45:96 F '42

Short circuits in synchronous-machine armatures. R. A. Galbraith. bibliog Elec Eng 60:Trans 1024-9 D '41

Synchronous motor designed for starting torque and slow speed. P. MacGahan. il diags Product Eng 13:502 S '42

Timing motor uses hysteresis principle. il Elec W 117:1195-6 Ap 4 '42

See also

Selsyn apparatus

Starting

Part-winding method solves hard starting applications. L. W. Ballard. il diag Power 86:656-7 S '42

Tables, calculations, etc.

Correction for saturation. T. C. McFarland. Elec Eng 61:Trans 233-5 My '42

Doubly fed machine. C. Concordia, S. B. Crary and G. Kron. Elec Eng 61:Trans 286-9 My '42

Saturated synchronous machines under transient conditions in the pole axis. R. Rüdenberg. bibliog diags Elec Eng 61:Trans 297-306 Je '42

Testing

Acceleration-oscillogram method of motor-torque measurement. C. R. Atkinson and E. G. Downie. Elec Eng 61:Trans 7-9 Ja '42

ELECTRIC operating companies, Council of. See Council of electric operating companies

ELECTRIC oscillations. See Oscillations, Electric

ELECTRIC ovens

Electric oven bakes coiled electric cord. il Elec W 117:336 Ja 24 '42

Selecting oven type heat-treating furnaces. H. L. Horton. il Mach 48:225-7 Jl; 133-6 Ag '42

ELECTRIC patents

British and American patents. S. T. Madeley. Electrician 129:268-9 S 11 '42

ELECTRIC plants

Power plant engineering and design. F. T. Morse. 2d ed 703p $6.50 Van Nostrand '42

ELECTRIC plants—*Continued*
Storage battery takes over when power fails; DeLaval steam turbine co. il Power 86:389 Je '42

See also
Boiler plants
Electric plants (central stations)
Electric power
Electric substations
Hydroelectric plants
Power factor
Power plants
Steam plants
Waterworks—Combination with electric plants

Interconnection

Control of tie-line power swings. C. Concordia, H. S. Shott and C. N. Weygandt. Elec Eng 61:Trans 306-13 Je '42
Facilities for the supply of kilowatts and kilovars. H. K. Sels and T. Seely. map Elec Eng 61:Trans 249-55 My '42
FPC authorizes Connecticut tie-in. Elec W News ed 118:533-4 Ag 15 '42
Grand Coulee linked to Bonneville by 230 kv. S. E. Schultz. il diag Elec W 117:1168-70 Ap 4 '42
High-speed single-pole reclosing. J. J. Trainor, J. E. Hobson and H. N. Muller, jr. bibliog il diags map Elec Eng 61:Trans 81-7 F '42
Idle electric generating capacity; put it to work in war production. Edison Elec Inst Bul 10:249-55+ Jl '42
Integration studies prompted by war needs. Pub Util 30:442-5 S 24 '42
Municipal and utility join in defense link; Lansing, Mich. and Consumers power company agree upon interconnection. Elec W News ed 116:1785 D 6 '41
Northwest utility operating coordination; interconnected network meets dry-year emergency. L. B. Cowgill. Elec West 88:51-4 Ap '42
Novel features mark a.c. calculating board; Public service company of Oklahoma. E. B. Phillips and L. C. Grigsby. il Elec W 116:2030-1 D 27 '41
Out-of-step indicator visualizes asynchronism; cathode-ray tubes on 60,000-kva. frequency changer. T. M. Blakeslee. il diag Elec W 117:1177-8 Ap 4 '42
Parallel operation influences design of Venice No. 2. W. F. Ryan and E. H. Tenney. flow diag il plans Elec W 118:441-4 Ag 8 '42
Planning distribution centres. T. H. Carr. diags Electrician 128:480-3 My 15 '42
Power for defense; national program. T. R. Tate. Elec Eng 61:13-17 Ja '42
Power pool; Pacific Northwest's electric utilities banded together in supersystem. Business Week p14 O 17 '42
Power teamwork for victory; pooling power. diags map Power 86:618-36 S '42
Regional integration; suggested plan. H. B. Sargent. Elec W 118:605-6 Ag 22 '42
Semi-graphical method of determining the power limits of an interconnector. H. Rissik. diags Inst E E J 88 pt 2:568-88 bibliog(p583-4) D '41; Discussion. 89 pt 2:373-5 Ag '42
Sequence relay; a device to provide short-time system separation on long period oscillations. C. L. Betts, jr. bibliog diags Edison Elec Inst Bul 10:301-9 Ag '42
Supplementary control of prime-mover speed governors. S. B. Crary and J. B. McClure. bibliog Elec Eng 61:Trans 209-14 Ap '42
System frequency and its control. H. A. Dryar. il Instruments 15:290-1 Ag '42
Systems inter-tied for energy exchange; Southern California Edison and San Diego Gas & Electric systems interconnected through 50,000-kw. frequency changer. il Elec West 88:35-6 Mr '42

Industrial plants

Automatic load control keeps power systems in step. diags Power 86:628-30 S '42
Buick factory assembles army aircraft engines; utility supplies power with arrangements for absorbing surplus power generated by engines on test. R. E. Turner. il Power Pl Eng 46:80-1 Jl '42
Calculator applied to industrial system. W. W. Parker. diags Elec W 118:1267-8 O 17 '42
Control and regulation of utility-industrial ties. L. F. Stone. diags Elec W 117:1171-3 Ap 4 '42
Ebasco plan would utilize idle capacity; interconnection of all the country's industrial and municipal plants. Elec W News ed 118:535-6 Ag 15 '42
Industrial-plant operators share tie-in experience. diags plan Power 86:624-7 S '42
Industrial plants share responsibility. Power 86:622-3 S '42
More engineers share their power-pooling experience; industrial power plants operated in parallel with public-utility systems; experiences of six plants. diags Power 86:734-6 O '42
Morrell plant burns three kinds of fuel; operates in parallel with local utility company and generates only byproduct power. D. S. Helmick and E. L. Johnson. il diags Power Pl Eng 46:48-51 Ja '42
Power pooling introduces new metering problems. diags Power 86:635-6 S '42
Salvaging power in engine testing; how to pump power from a varying-speed source into a constant-frequency system. G. E. Cassidy. diag Aviation 41:88-9 Ap '42
Utilities must interconnect with private-plant generators. Power 86:435 Je '42
Water power and fuel economy; hydro-electricity to save coal-produced energy. diag Electrician 129:38 Jl 10 '42

Isolated plants vs. purchased power

Diesel-electric power generation for frozen food plants. J. E. Hubel. il Refrig Eng 43:354-6 Je '42
Diesel power for a small factory. W. H. Gottlieb. il Power Pl Eng 46:62-4 Ag '42
Institution benefits by generating power; with cost data. A. A. Fette. Power Pl Eng 46:88-90 N '42
Power and steam supply in a small plant. G. H. Kimball. Power Pl Eng 46:99 N '42

ELECTRIC plants (central stations)
Brakes on utility expansion. Business Week p20 S 5 '42
Cable loading for war industry loads. E. W. Oesterreich. Edison Elec Inst Bul 10:45-7 F '42
Electric power stations. T. H. Carr. 2v v 1 376p $7.50 Van Nostrand '41
PDs not needed for A-5 utility expansion. Elec W News ed 118:203 Jl 18 '42
Two new stations for Pacific Gas & Electric. il Elec W News ed 116:1649 N 22 '41

See also
Boiler plants
Electric distribution
Electric engineering
Electric lighting
Electric lines
Electric plants—Interconnection
Electric plants, Municipal
Electric railroads—Power
Electric service, Rural
Electric transmission
Electric utilities
Hydroelectric plants
Steam plants

Design

Burbank's modernistic design gives low cost and high efficiency. J. B. Johnson. flow diag il diag plan Power Pl Eng 45:54-9 D '41
Chickasaw electrical design influenced by humidity. A. H. Mergenthaler. il diags Elec W 117:636-9 F 21 '42
Design of internal-combustion engine power plants. G. C. Boyer. diags plan Mech Eng 64:541-4 Jl '42
Heating steam requirements fix Commerce Street design; with cost data; Wisconsin electric power company. flow diag diag Elec W 116:2032-5+ D 27 '41
Height of stacks established by wind-tunnel tests; investigation of flue gas problem at Riverside station, Baltimore. H. L. von Hohenleiten and E. F. Wolf. Power Pl Eng 46:73-5 Ag '42
Increased electric power for Cleveland. il plans Power Pl Eng 46:52-9 Mr '42
Oswego station design pioneers new ideas. il diags Elec W 116:1878-81+ D 13 '41

ELECTRIC plants (central stations)—Design— *Continued*

Outdoor construction reduces steam plant investment cost; semi-outdoor steam plant for the Burbank public service department. J. H. McCambridge. il plans Elec W 118:290-3 Jl 25 '42

Parallel operation influences design of Venice No. 2. W. F. Ryan and E. H. Tenney. flow diag plans Elec W 118:441-4 Ag 8 '42

Some features of the Harbor steam plant of the Los Angeles Bureau of power and light. W. C. Rowse. il Mech Eng 64:773-6 N '42

Watts Bar steam design simple, direct, economical. R. A. Hopkins. diags map plan Elec W 117:474-7 F 7 '42

Diesel engine stations

Design of internal-combustion engine power plants. G. C. Boyer. diags plan Mech Eng 64:541-4 Jl '42

Diesels for small-town America. il Power 86:238-9+ Ap '42

Fennimore, Wis., population 1,500 attracts 5,000 to opening of new municipal plant. F. Merrick. il Diesel Power 20:475-6 Je '42

15 years of sound Diesel practice; Rockville Centre municipal Diesel-electric plant. il diags plans Power 86:774-7 N '42

Gallatin, Mo. light plant; with cost data. B. B. Smith. il Diesel Power 20:201-2 Mr '42

Hutchinson, Minn. adds to capacity. R. W. Strohmeier and L. A. Winter. il Diesel Power 20:393-6 My '42

Light-load unit proves successful in Brooklyn, Iowa, municipal Diesel plant. C. M. Stanley. il plans Power 86:482-5 Jl '42

Manning municipal light plant. A. D. Wiese. il Diesel Power 20:811-12 O '42

Minnkota, N.D., power cooperative. il Diesel Power 20:122-6 F '42

One Diesel power plant serves 8 Virginia counties; Prince William electric cooperative. H. J. Barbour. il Diesel Power 20:275-8 Ap '42

Ponca City Diesels average 7 mills per kwhr for ten years. il Power 86:322-3 My '42

Portland plant of the Tri-county cooperative. E. O. Thoman. il Diesel Power 20:280-1 Ap '42

Public service at New Roads, La. M. R. Wood. il Diesel Power 19:1024-6 D '41

16½ year operating record; Diesel-powered Carthage, Mo. water and electric plant. il Diesel Power 20:893-5 N '42

Small community, big power savings; power plants, Kohler City, Missouri. il Diesel Power 20:756 S '42

Use of filtered crude results in marked improvement in fuel consumption; municipal power plant, Luverne, Minnesota. E. K. Thon. il Diesel Power 20:46-7 Ja '42

Efficiency

Load control boosts station efficiency. il Elec W 116:1736 N 29 '41

Utah municipal plant maintains good operating record. R. W. Brown. flow diag il diag Power Pl Eng 46:74-8+ F '42

Employees

Shift charge engineers; the Industrial court and grading. Electrician 128:569 Je 5 '42

Where to get new watch engineers. Elec W 118:173 Jl 11 '42

Equipment

Automotive batteries economical for stations. Elec W 118:650+ Ag 22 '42

Burlington charts the way for motor-operated valves. S. D. Barr. il Power 85:900-2 D '41

Capacitors preferred to machine reactive; pole top capacitors to supply shortage at Cahokia station. G. P. Gamble, R. C. Morris and A. W. Howell. il Elec W 118:935 S 19 '42

Centralized controls feature boiler room; Waterside no. 2 generating station, New York. il diag Elec W 117:1509 My 2 '42

Chickasaw electrical design influenced by humidity. A. H. Mergenthaler. il diags Elec W 117:636-9 F 21 '42

Chickasaw plant solves unusual condensing problems. E. C. Gaston. il diag plan Elec W 116:1717-19+ N 29 '41

Coal-handling systems for central stations; with cost data. G. C. Daniels. il diags Mech Eng 63:801-6 N '41; Discussion. 64:230-1 Mr '42

Direct-acting regulators on large Georgia generators. J. T. Logan. il diag Elec W 117:1494-6 My 2 '42

Electrical engineering in 1941. il Engineer 173:27-9, 46-9, 68-9 Ja 9-23 '42

Experience guides design of second topping unit. diags plan Power 86:704-7 O '42

Facilities for the supply of kilowatts and kilovars. H. K. Sels and T. Seely. map Elec Eng 61:Trans 249-55 My '42

Herkimer, N.Y. municipal system adds 3000 kw. il diag plans Power Pl Eng 46:50-4 Ag '42

High-pressure steam; new Twin Branch (Indiana) station. S. B. Jackson. diag Elec R (Lond) 129:741-3 D 26 '41

How electric utilities are solving operating problems arising out of war; 142 actual cases gathered from practices of 60 operating systems. il diags Elec W 117:1829-74 My 30 '42

How to apply batteries and charging equipment for power houses and substations; diagram and table. Elec W 118:166 Jl 11 '42

Insured lighting power by station busbar changes. E. R. Webber. diag Power 86:425-6 Je '42

Interconnection puts more load on circuit breakers. diags Power 86:633-4 S '42

Klip generating station, South Africa. il Engineer 173:392-3 My 8 '42; Engineering 153:367, 370 My 8 '42; Elec R (Lond) 130:619-20 My 15 '42; Electrician 128:440-2 My 8 '42

Modernizing a small utility steam plant; Braintree, Mass. municipal plant. il diags Elec W 118:1256-9 O 17 '42

Past experience guides second topping turbine installation. flow diag diags Elec W 118:1096-9 O 3 '42

Pilot board mimics switching operations. il Elec W 117:1030 Mr 21 '42

Power and electrical developments in 1941. il diags Power Pl Eng 46:48-52 F '42

Power station bus schemes; diagrams. C. A. Powel. Elec W 117:1380 Ap 18 '42

Progress in 1941. il Elec R (Lond) 130:131-5 Ja 30 '42

Southwark pumps; abstract. S. L. Kerr and S. Moyer. diags Power 85:976-7 Mid-D '41

Station modifications save critical materials. Elec W 117:1894 My 30 '42

Turbine allocations for utilities drop 290,000 kw. Elec W 117:1017 Mr 21 '42

1250-lb. Oswego tests new ideas. N. R. Gibson and H. M. Cushing. il diags map Power 86:2-6 Ja '42

Two 850-psi 900-F Watts Bar steam units serve TVA war loads. G. E. Morgan. il Power 86:478-81 Jl '42

Up-to-date coal handling plant. diags Mech Handling 29:184-5 O '42

Venice no. 2. W. F. Ryan and E. H. Tenney. flow diag il plans Power Pl Eng 46:87-93 My '42

See also

Boiler plants—Equipment

Extensions

Added turbo-generator bolsters Central Maine; Wiscasset plant. Elec W 117:304 Ja 24 '42

Heating and process steam influence Iowa extension; two-part furnace burning both pulverized coal and refuse and turbine with head-end stage in two sections. J. M. Drabelle. il diags Elec W 117:2210-13 Je 27 '42

Low cost modernization sought in Moline plant expansion. E. H. Throckmorton. flow diag plan Power Pl Eng 46:54-6 Ap '42

Lynn utility expanding to aid defense program. il Elec W News ed 116:1783 D 6 '41

ELECTRIC plants (central stations)—Extensions—*Continued*

Quindaro expansion to include 30,000-kw. unit. il Elec W 116:1731 N 29 '41

Taunton plant expands for war service demands; semi-outdoor steam generator and topping turbine. il Elec W News ed 117: 1264-5 Ap 11 '42

Fires and fire protection

Educational program for industrial fire prevention protection. J. A. McGuckin. Edison Elec Inst Bul 10:91-2 Mr '42

Fire-extinguishing arrangements at electric power station. Engineering 153:66 Ja 23 '42

Fires in switch houses. S. York. diags Elec R (Lond) 129:699-702 D 19 '41

Mobile water spray fire-fighting unit. il Elec W 117:1546 My 2 '42

Plant fires primary consequence of bombing. B. Hogben. Elec W 117:2065 Je 13 '42

Fuel

Surplus grains fuel Argentine boilers; corn, pulverized barley, bran, sorghum, seedcake and sunflower-seed husks replace coal and oil. il diags Power 86:538-41 Ag '42

Interconnection

See Electric plants—Interconnection

Layout

Experience guides design of second topping unit. diags Power 86:704-7 O '42

Past experience guides second topping turbine installation. flow diag diags Elec W 118:1096-9 O 3 '42

Power-station sites; effect on boiler layout. V. Smith. diags Elec R (Lond) 131:73-5 Jl 17 '42

Lighting

Bed lamps for power plant blackout. diags Elec W 117:2238 Je 27 '42

Fluorescent lighting of gauge panels. H. D. Green and W. C. Woodman. il diags Elec W 116:2036-8 D 27 '41

Glareless illumination for instrument boards; direct lighting supplemented by plastic meter cases or reflecting shelves. E. D. Tillson. il diags Elec W 116:1715-16+ N 29 '41

Light for a switchboard. il Elec West 88:61 My '42

Protective lighting for power plants. diags plan Elec W 118:162+ Jl 11 '42

Load

Boston blackout load dip like normal noon valley. Elec W News ed 117:738 F 29 '42

Capacitors bring system relief; Northwestern electric co. C. McLean. il Elec West 89: 68-70 S '42

Capacitors improve power factor on summer peak. W. L. Bryant. il Elec W 118:642+ Ag 22 '42

Commercial and industrial loads offer new opportunities. C. T. Bakeman. il Elec W 117:814-15 Mr 7 '42

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Domestic load development; maximum demand and load factor. P. Schiller. Elec R (Lond) 129:509-11 N 7 '41

Domestic thermal load. P. Schiller. Elec R (Lond) 130:9-10 Ja 2 '42

Facilities for the supply of kilowatts and kilovars. H. K. Sels and T. Seely. map Elec Eng 61:Trans 249-55 My '42

Field experience with effective power rationing. C. A. Collier. charts Edison Elec Inst Bul 10:175-8 My '42

Gas-filled cable meets urgent load situation in Hartford area. il diags Elec W 116: 2042-4 D 27 '41

Industrial load control. J. V. Alfriend, jr. Edison Elec Inst Bul 10:193-4 My '42

Load measurement. C. L. Lipman. diag Electrician 128:393-4 Ap 24 '42

Load rise and fall rates in Coast blackout. F. R. George. maps Elec W News ed 117: 160-1 Ja 17 '42; Electrician 128:215-16 Mr 13 '42

Loads and load curves as influenced by blackouts. A. Kramer. Power Pl Eng 46: 54-7 N '42

Matching the load and the system capacity. W. J. Lyman. Edison Elec Inst Bul 10:49-52 F '42

Maximum demand and peak responsibility; how existing defects might be overcome. D. J. Bolton. Elec R (Lond) 130:783-7 Je 19 '42

Optional-control system of domestic electricity supply. P. Schiller. diags Inst E E J 89 pt 2:170-4; Discussion. 174-84 Je '42

Philadelphia utility takes first blackout in stride. Elec W News ed 117:569 F 14 '42

Plants take blackout load changes comfortably. charts Elec W 118:610-12+ Ag 22 '42

Power for defense; national program. T. R. Tate. il maps Elec Eng 61:8-17 Ja '42

Supplying kilovar loads for war conservation and economy. M. C. Miller. diags Edison Elec Inst Bul 10:363-8+ O '42

Utility operating problems during blackouts. F. M. Starr. Power Pl Eng 46:66-7 Ap '42

Vast power resource lies unused; off-peak power. F. R. Innes. Elec W 116:1556-9+ N 15 '41

WPB plans added 24-hour loads on generators; new aluminum and magnesium production program. Elec W 117:823-4 Mr 7 '42

War-time cuts Northwest peak 10%; daily load composite of eight utilities. L. Weiner. Elec W 117:1888 My 30 '42

Wartime electric-system planning. R. G. Hooke and E. C. Plant. Elec Eng 61:192-6 Ap '42

See also
Electric service, Rural

Load dispatching

Adequate light for efficient load dispatching; windowless structure housing the load dispatchers of the Los Angeles bureau of power and light. L. A. Gates. il plan Elec W 118:451-3 Ag 8 '42

Designed for modern load dispatching; new load dispatchers' headquarters of the Los Angeles Bureau of power & light. il Elec West 88:36-8 My '42

Easy-to-follow load dispatcher's board. il Elec W 118:785 S 5 '42

Frequency control of load swings. J. E. McCormack and R. J. Lombard. diag Elec Eng 61:Trans 623-4 S '42

Pilot board mimics switching operations. il Elec W 117:1030 Mr 21 '42

Location

Power-station sites; effect on boiler layout. V. Smith. diags Elec R (Lond) 131:73-5 Jl 17 '42

Some considerations concerning the siting of power stations. F. Favell. Inst E E J 89 pt 2:217-26 Je '42

Maintenance and repair

Inspection programs for steam plants. J. MacEwell. Elec West 88:88-9; Discussion. 89 Je '42

Maintenance of steam power for war loads. il Elec W 118:1421-39 O 31 '42

Maintenance plans for emergencies. W. C. Sander. Elec West 88:91-5 Je '42

Maintenance plans for power units. J. Stobie. Elec West 88:85-8; Discussion. 88 Je '42

Management

Coordination of unit overhaul periods. P. Sporn. il Elec W 118:1422-7 O 31 '42

Utility problems of the blackout. R. F. Cornell. map Power Pl Eng 46:58-60 N '42

Protection

Barriers found best for bomb protection at generating stations. B. Hogben. Elec W 118:75 Jl 11 '42

Bombs and bombing. il diags Power Pl Eng 46:60-2 N '42

Building and protecting power systems in wartime. F. M. Starr. il Power Pl Eng 46: 77-80 My '42

ELECTRIC plants (central stations)—Protection—*Continued*

Correct electrical protection makes interchange safe. diags Power 86:630-2 S '42

Effect of the war on foreign power systems; information from England and China. Power Pl Eng 46:63-4 N '42

Fault bus-differential scheme protects Cahokia bus. G. W. Gerell. diags Elec W 117:1335-6 Ap 18 '42

Home-made blackout for generating plant. diag Elec W 118:172-3 Jl 11 '42

How electric utilities are solving operating problems arising out of the war; how utility plant is being protected and blacked out. diags Elec W 117:1873-4 My 30 '42

How to protect turbo-generator unit from bomb fractures. H. Towers. diags Elec W 117:1368 Ap 18 '42

Power stations in wartime; countering the effects of air attack. G. V. Harrap. Elec R (Lond) 129:567-9 N 21 '41; Excerpts. Elec W 117:62 Ja 10 '42

Protection of electric power facilities. T. R. Tate. il Civil Eng 12:595-8 N '42

Protection of electric public utility systems against air raids; experiences of electric utilities in Great Britain. A. V. DeBeech. bibliog Edison Elec Inst Bul 10:183-9 My '42

Protection of plants by camouflage. il diags map Power Pl Eng 46:65-8 N '42

Protective concealment of utility properties. K. Martin. il Elec W 118:756-8 S 5 '42

Protective relaying for attended power plants. C. R. Mason. il diag Power Pl Eng 45:77-9+ D '41

See also

Electric plants (central stations)—Fires and fire protection

Electric transformers—Protection

Records

Plant records are key to maintenance scheduling. Elec W 118:1436-9 O 31 '42

Tag system guides plant maintenance; Spy Run plant of the Indiana service corporation. Elec W 118:1430 O 31 '42

Safety measures

See also

Electric distribution—Grounding

Statistics

Annual statistical number. Elec W 117:257-89 Ja 24 '42

Final data on 1941 operations. Edison Elec Inst Bul 10:103-6 Mr '42

Kilowatthour generation and sales, 1940 and 1941; table. Edison Elec Inst Bul 9:476 D '41

Power plant expansion in 1942 totals over billion. Elec W News ed 117:1737 My 23 '42

See also

Electric power—Statistics

Electric utilities—Statistics

Steam distribution

Heating and process steam influence Iowa extension; two-part furnace burning both pulverized coal and refuse and turbine with head-end stage in two sections. J. M. Drabelle. il diags Elec W 117:2210-13 Je 27 '42

Heating steam requirements fix Commerce Street design; with cost data; Wisconsin electric power company. flow diag diag Elec W 116:2032-5+ D 27 '41

Piped-steam gain. Business Week p93 Jl 25 '42

Argentina

Surplus grains fuel Argentine boilers; corn, pulverized barley, bran, sorghum, seedcake and sunflower-seed husks replace coal and oil. il diags Power 86:538-41 Ag '42

California

Load rise and fall rates in Coast blackout. maps Elec W News ed 117:160-1 Ja 17 '42

Capetown, South Africa

Progress in Capetown. Electrician 127:360-1 D 26 '41

Cleveland, Ohio

Increased electric power for Cleveland. il plans Power Pl Eng 46:52-9 Mr '42

Los Angeles

Foundation tests for Los Angeles steam plant. W. F. Swiger. il diags plan Civil Eng 11:711-14 D '41

Some features of the Harbor steam plant of the Los Angeles Bureau of power and light. W. C. Rowse. il Mech Eng 64:773-6 N '42

Milwaukee

Heating steam requirements fix Commerce Street design; with cost data; Wisconsin electric power company. flow diag diag Elec W 116:2032-5+ D 27 '41

South Africa

Klip generating station. il Engineer 173:392-3 My 8 '42; Engineering 153:367, 370 My 8 '42; Elec R (Lond) 130:619-20 My 15 '42; Electrician 128:440-2 My 8 '42

Tacoma, Washington

Old Tacoma steam plant placed in operation. Elec W News ed 116:1647 N 22 '41

United States

Projects halted or suspended, in whole or in part and government projects proceeding on low priorities or unrated. Pub Util 30:378-9 S 10 '42

Vermont

Wind-power plant continues operation; plant at Grandpa's Knob. J. W. Wilbur. diag Power Pl Eng 46:78-9 O '42

Western states

1941 power for defense, 1942 power for war; construction programs. il Elec West 88:44-61 F '42

ELECTRIC plants, Cooperative

Minnkota, N.D., power cooperative. il Diesel Power 20:122-6 F '42

One Diesel power plant serves 8 Virginia counties; Prince William electric cooperative. H. J. Barbour. il Diesel Power 20:275-8 Ap '42

Portland plant of the Tri-county cooperative. E. O. Thoman. il Diesel Power 20:280-1 Ap '42

ELECTRIC plants, Municipal

Brisbane's municipal services. il Elec R (Lond) 130:537-8 Ap 24 '42

Burbank's modernistic design gives low cost and high efficiency. J. B. Johnson. flow diag il diag plan Power Pl Eng 45:54-9 D '41

Fennimore, Wis., population 1,500, attracts 5,000 to opening of new municipal plant. F. Merrick. il Diesel Power 20:475-6 Je '42

15 years of sound Diesel practice; Rockville Centre municipal Diesel-electric plant. il diags plans Power 86:774-7 N '42

Herkimer, N.Y. municipal system adds 3000 kw. il diag plans Power Pl Eng 46:50-4 Ag '42

Hutchinson, Minn. adds to capacity. R. W. Strohmeier and L. A. Winter. il Diesel Power 20:393-6 My '42

Increased electric power for Cleveland. flow diag il plans Power Pl Eng 46:52-9 Mr '42

Light-load unit proves successful in Brooklyn, Iowa, municipal Diesel plant. C. M. Stanley. il plans Power 86:482-5 Jl '42

Manning municipal light plant. A. D. Wiese. il Diesel Power 20:811-12 O '42

Modernizing a small utility steam plant; Braintree, Mass. municipal plant. il diags Elec W 118:1256-9 O 17 '42

Public power advocates organize association; super-service company and trade association projected for municipal plants and REA cooperatives. Elec W 116:2051 D 27 '41

ELECTRIC plants, Municipal—*Continued*

Public service at New Roads, La. M. R. Wood. il Diesel Power 19:1024-6 D '41

16½ year operating record; Diesel-powered Carthage, Mo., water and electric plant. il Diesel Power 20:893-5 N '42

Some features of the Harbor steam plant of the Los Angeles Bureau of power and light. W. C. Rowse. il Mech Eng 64:773-6 N '42

Use of filtered crude results in marked improvement in fuel consumption; municipal power plant, Luverne, Minnesota. E. K. Thon. il Diesel Power 20:46-7 Ja '42

Utah municipal plant maintains good operating record. R. W. Brown. flow diag il diag Power Pl Eng 46:74-8+ F '42

See also

Electric utilities—Municipal ownership

Finance

Ponca City Diesels average 7 mills per kwhr for ten years. il Power 86:322-3 My '42

Western city revamps its municipal utilities, Miami, Okla. O. D. Baker. Pub Util 29: 222-7 F 12 '42

ELECTRIC potential. See Potential, Electric

ELECTRIC power

Can you score 100 on this electrical power quiz? Brick & Clay Rec 99:23 D '41

Electric power generation in wartime. il map Power Pl Eng 46:62-7 My '42

Electric power requirements and supply. Survey of Cur Business 21:7-9 N '41

Eliminating power wastage; the value of foot-switch control. D. T. Naylor. Elec R (Lond) 131:305 S 4 '42

Energy cost under 1% of product value; ratio of purchased electric energy cost to value of manufactured product; census of manufactures, 1939. Elec W 117:819 Mr 7 '42

Entering the seventh decade of electric power. C. E. Neil. Edison Elec Inst Bul 10:321-32 S '42

FPC report on electric power growth. Pub Util 28:836-9 D 18 '41

Mobilizing kilowatts for war. J. A. Krug. il Elec Eng 61:126-31 Mr '42

Power for defense. L. Olds and others. il maps Elec Eng 61:3-24 Ja '42

Semi-graphical method of determining the power limits of an interconnector. H. Rissik. diags Inst E E J 88 pt 2:568-88 bibliog(p583-4) D '41; Discussion. 89 pt 2:373-5 Ag '42

Storage battery emergency lighting and power plants. il diags Power Pl Eng 46:81-3+ My '42

War power must come from plants we have. Power 86:616-17 S '42

Will electric power be a bottleneck? L. Marlio. 67p pa 50c Brookings institution, Washington, D.C. '42

See also

Coal mines and mining—Power
Electric distribution
Electric driving
Electric plants
Electric plants (central stations)
Electric railroads—Power
Electric transmission
Electric welding—Power supply
Electricity supply
Electrochemical industries—Power
Hydroelectric power
Metallurgical plants—Power
Military training camps—Power supply
Paper mills—Power
Petroleum engineering—Power
Power factor
Power plants
Pumping stations—Power
Steel works—Power
Textile mills—Power

Rates

See Electric rates

Statistics

Electric light and power industry in 1941. Edison Elec Inst Bul 9:477-81 D '41

Energy sales, 1941. Elec W 117:272-3 Ja 24 '42

Forecasting the demand for electric energy. J. E. Gates. J Land & Pub Util Econ 18: 77-81 F '42

Idle electric generating capacity; put it to work in war production. Edison Elec Inst Bul 10:249-55+ Jl '42

Output, 1941. Elec W 117:260-8 Ja 24 '42

Power for defense; national program. T. R. Tate. il maps Elec Eng 61:8-17 Ja '42

Power output soars from war impetus. Power Pl Eng 46:53+ F '42

Public utilities; electric power. Survey of Cur Business 28:38-9 F '42

Record highs in U.S. production of power reported by FPC. Elec Eng 61:272-3 My '42

Survey measures non-utility kilowatts for future pooling. Power 86:620-1 S '42

Weekly electric output. Published in weekly Thursday numbers of Commercial & financial chronicle

Weekly output. Published in weekly numbers of Electrical world

See also

Electric plants (central stations)—Statistics

ELECTRIC power and light corporation

Assets behind preferred stocks. O. Ely. Barron's 22:5 S 21 '42

Electric bond & share co. units ordered dissolved; SEC moves against American power and light co. and the Electric power & light corp. Comm & Fin Chr 156:780 Ag 31 '42

Files integration plan with SEC. Comm & Fin Chr 154:1594 D 20 '41

Integration plan revised. Comm & Fin Chr 156:603 Ag 17 '42

More income possible. O. Ely. Barron's 21:8 D 15 '41

Reports aid to Nation's power pools. Comm & Fin Chr 155:2276-7 Je 15 '42

SEC accepts plan to partly recapitalize Dallas Railway & Terminal and dissolve Northern Texas company. Comm & Fin Chr 156:1415 O 19 '42

ELECTRIC precipitation

Cleaning the air cleaner. Blast F & Steel Pl 30:274-5 F '42

Dixie mercerizing co. installed electrostatic air cleaners. il Heat & Ven 38:43-4 D '41

Electrical precipitation of suspended particles from gases; patent. diag Gas J (Lond) 237:175 F 4 '42

Electrostatic precipitation; wide applications in the chemical industry. D. D. Howat. bibliog il diag Chem Age (Lond) 46:165-8 Mr 28 '42

New electrostatic air-cleaner. D. W. Aldous. diag Electrician 129:271-2 S 11 '42

New electrostatic air-cleaner and its application to the motion picture industry. H. Gitterman. il diags Soc Motion Picture Eng J 39:70-4 Jl '42

Removing air-borne dust in industrial plants. E. H. R. Pegg. il Power Pl Eng 46:65-7 Ag '42

See also

Electrostatic separators

ELECTRIC propulsion of ships. See Ship propulsion, Electric

ELECTRIC protective apparatus

Coordinated fusing plus spill gaps give service continuity. C. N. Teed and J. F. Servis. il diag Elec West 88:37-9 Mr '42

Correct electrical protection makes interchange safe. diags Power 86:630-2 S '42

Design features of a new high-capacity network protector. J. W. Seaman and R. W. Smith. il diags Gen Elec R 44:673-7 D '41

Fuses for overload protection. Elec West 88:58 Ja; 89 F '42

Grading protective devices. G. V. Harrap. Elec R (Lond) 131:421-4 O 2 '42

High-voltage, high-rupturing-capacity cartridge fuse and its effect on protection technique. K. Dannenberg and W. J. John. Electrician 128:363-4 Ap 17 '42; Discussion. 128:400-1 Ap 24 '42

Linear couplers for bus protection. E. L. Harder and others. bibliog il diags Elec Eng 61:Trans 241-8 My '42

ELECTRIC protective apparatus—*Continued*

Load-limit indication. H. C. Busbridge. diags Elec R (Lond) 131:364 S 18 '42

Management of protective gear on power supply systems. W. Casson and F. H. Birch. il diags Inst E E J 89 pt 2:317-41 Ag '42; Excerpts. Elec R (Lond) 130:79 Ja 16 '42; Discussion. Inst E E J 89 pt 2:341-54, 509-18 Ag, O '42

New ideas in motor control. M. A. Hyde. il Oil & Gas J 40:86-7+ Mr 26 '42

Power design in defense plants; electrical system protection. H. Winte. diags Elec W 117:640-2 F 21 '42

Protection of pilot-wire circuits. E. L. Harder and M. A. Bostwick. diags Elec Eng 61: Trans 645-52 S '42

Protection problems. W. A. Mears. diags Electrician 129:305-6, 423-8 S 18, O 16 '42

Protective device for series capacitor. il Elec W 117:670 F 21 '42

Relative expense for service restoration with different types of overcurrent protection for distribution circuits. G. F. Lincks and C. R. Craig. diags Elec Eng 61:Trans 813-21 N '42

Relative value of different types of overcurrent protection for distribution circuits. G. F. Lincks. Elec Eng 61:Trans 19-25 Ja '42

Single-phase a-c electric locomotives on the Pennsylvania railroad; protection and tonnage rating. H. C. Griffith. bibliog il diags Elec Eng 61:Trans 224-8 Ap '42

Ten years of progress in relaying. Elec Eng 60:590-2 D '41

See also
Electric circuit breakers
Electric distribution—Grounding
Electric fuses
Electric lines—Protection
Electric motors—Protection
Electric switches
Lightning arresters
Lightning protection
Relays

Testing

Protection problems. W. A. Mears. diags Electrician 129:425-8 O 16 '42

ELECTRIC railroads

How cities are served. Transit J 86:18 Ja '42

See also
Electric locomotives
Railroads—Electrification
Street cars
Street railroads
Subways
Trolley buses
also New York, Westchester & Boston railway

Braking

Service electric braking for city transit vehicles; abstract. W. J. Clardy. Mass Transportation 37:333-4 N '41

Cars

See Cars, Electric railroad; Motor cars (railroad)—Diesel-electric; Street cars

Costs

Expenses rise sharply; big expenditures to provide more service. Transit J 86:14-17 Ja '42

Equipment and supplies

Developments of 1941. G. Bartlett. il Mass Transportation 38:4-7 Ja '42

Some Westinghouse developments pictured. il Mass Transportation 38:8-10 Ja '42

Finance

Revenue shows sharp upswing. Transit J 86: 12-13 Ja '42

See also
Electric railroads—Securities
Street railroads—Finance

Lighting

When the lights are low; New York City transit system plans for blackout. E. C. Giddings. il Transit J 86:206-8 Je '42

Maintenance and repair

See also
Street railroads—Maintenance and repair

Management

East Bay cities get unified service. C. Robertson. il map Transit J 85:448-51 D '41

Overhead construction

Exhibits of transit equipment; equipment for overhead line; pictorial review. Transit J 86:346-8 S '42

Sleet problems on electrified railroads. H. F. Brown. bibliog plans Elec Eng 61:Trans 589-93 Ag '42; Abstract. il Ry Age 113: 276-7 Ag 15 '42

Passenger traffic

Riding makes record gain. Transit J 86:10-11 Ja '42

Power

Ignitron rectifiers provide additional power quickly. G. R. McDonald. il diags Mass Transportation 38:180-1 Jl '42

Quarter of a century of suburban electric traction on the Central Argentine railway: what of the future? K. N. Eckhard. Inst E E J 89 pt 1:316-20 Jl '42

Receiverships

Transit financing in 1941. Transit J 86:25-7 Ja '42

Rolling stock

See also
Cars, Electric railroad
Electric locomotives

Securities

Transit financing in 1941. Transit J 86:25-7 Ja '42

Shops

Norfolk shop modernizes; individual machine drive instead of belt drive. il Transit J 86:30-1 Ja '42

Statistics

Transit progress in 1941; statistics; revenue, costs, rolling stock, etc. Transit J 86:9-27 Ja '42

Trolley shoes

And now, carbon shoes for street cars. E. G. Deis. il Transit J 85:460-1 D '41

Fort Wayne likes trolley shoes. il map Transit J 86:248-9 Jl '42

California

East Bay cities get unified service. C. Robertson. il map Transit J 85:448-51 D '41

Canada

Statistics of electric railways of Canada for the year ended Dec. 31, 1940. 64p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

ELECTRIC ranges. See Electric stoves

ELECTRIC rates

All-electric rate a success; Lighting department, city of Seattle. P. C. Spowart. Elec West 88:44-5 My '42

Bonneville revises resale rates. Elec W News ed 117:570 F 14 '42

Bulk supplies; inequity of existing tariffs. N. Elliott. Elec R (Lond) 129:543-4 N 14 '41

Can't regulate rates; OPA intervenes in cases. G. E. Doying, jr. Elec W 118:296 Jl 25 '42

Comparing tariffs. J. P. S. Pillans. Elec R (Lond) 130:68 Ja 16 '42

Comprehensive tariff; block tariff. G. W. Smeed. Elec R (Lond) 131:47-9 Jl 10 '42

Elasticity of the residential demand for electricity. H. A. Cutler. J Land & Pub Util Econ 17:242-5 My '41; Discussion. 17:498-503 N '41

ELECTRIC rates—*Continued*

Electricity charges; order with respect to minimum consumption. Electrician 129:371 O 2 '42

Electricity prices, December 1941. Monthly Labor R 54:518-20 F '42

Entering the seventh decade of electric power; early price history of the electric light. C. E. Neil. Edison Elec Inst Bul 10:330-2 S '42

Flat-rate floodlights earn $155 per kw; Blackstone Valley gas & electric system. il Elec W 116:1748 N 29 '41

Maximum demand and peak responsibility; how existing defects might be overcome. D. J. Bolton. Elec R (Lond) 130:783-7 Je 19 '42

National tariff policy. F. J. Elliott. Elec R (Lond) 130:721-2 Je 5 '42

New concept of rate regulation. G. E. Doying, jr. Elec W 118:1104 O 3 '42

Passing on war taxes to customers denied by FPC. Elec W 118:1106 O 3 '42

Price changes between June and September 1941. Monthly Labor R 53:1313-14 N '41

Price changes between March and June 1942. Monthly Labor R 55:384 Ag '42

Range-water heater combination reduces distribution demand; load limiter utilized; flat rate for water heating service; Nevada-California electric corporation. W. S. Fleming. Elec W 116:1887-8+ D 13 '41

Shadow and substance in the TVA power controversy. J. S. Ransmeier. 35p pa 25c Vanderbilt univ. press, Nashville, Tenn. '41

Step-up tariff. R. B. Rowson. Elec R (Lond) 131:486-8 O 16 '42

Utilities have developed rate structure rendering them virtually depression-proof. W. T. Hyde, jr. Comm & Fin Chr 154:1314+ D 4 '41

See also

Electricity in the home—Cost

ELECTRIC rectifiers

Anode circuit breaker for mercury rectifier. T. R. Rhea. il diag Elec W 117:1688 My 16 '42

Cathodic protection installation carefully engineered. C. F. Ofner. il Pet Eng 13:99-100, 102 Mr '42

Cause of high voltage surges in rectifier circuits. A. W. Hull and F. R. Elder. diags J Ap Phys 13:372-7 Je '42

Characteristics and applications of the selenium rectifier. E. A. Richards. diags Inst E E J 88 pt 2:423-38, pl 1-2; Discussion. 438-42 O '41; Same. 88 pt 3:238-57, pl 1-2 D '41; Discussion. 89 pt 2:163-4, 371-2 Ap, Ag '42; 89 pt 3:73-4, 176-7 Mr, S '42

Controlled power for plating. L. W. Reinken. il Metal Finishing 40:470-1 S '42

Copper-oxide rectifiers for electroplating and anodizing. L. W. Burton. diags Metal Finishing 40:243-6 My '42

Corrosion in the cooling system of power rectifiers; abstract. H. D. Holler. Chem & Met Eng 49:171-2 F '42

Dielectric igniters for mercury pool cathode tubes; use made of ability of glass to withstand increased potential gradients as thickness is decreased. H. Klemperer. bibliog il diag Electronics 14:38-41 N '41

Direct current conversion equipment in the electrochemical industry. L. H. Fletemeyer. il Electrochem Soc Trans 81 (preprint 32): 455-68 Ap '42; Excerpts. Metals & Alloys 16:496+ S '42

Electric equipment for large electrochemical installations. T. R. Rhea and H. H. Zielinski. bibliog il diags Elec Eng 61:Trans 733-41 O '42

Electronic devices for process control. T. A. Cohen. diags Chem & Met Eng 49:99-100 Ap '42

Electronic rectifiers applied to machine tools. il Iron Age 150:49 Ag 6 '42

Half-wave voltage-doubling rectifier circuit; abstract. C. H. Gleason and W. D. Waidelich. diags Electronics 15:72+ Ag '42

How to get the most out of electrical equipment. R. H. Rogers. Factory Management 100:126 O '42

Ignitron rectifiers. il Chem & Eng N 20:326-7 Mr 10 '42

Ignitron rectifiers provide additional power quickly. G. R. McDonald. il diags Mass Transportation 38:180-1 Jl '42

Mercury-arc rectifiers for electrochemical installations. T. R. Rhea. il diag Chem Ind 49:814-17 D '41; Same. Gen Elec R 44:611-13 N '41

Metal rectifiers. A. L. Williams and L. E. Thompson. diags Inst E E J 88 pt 1:353-71 bibliog(130 references, p369-71) O '41; Discussion. 88 pt 1:371-83; 89 pt 1:357-62 O '41, Ag '42

Metal rectifiers in the electro plating field; abstract. D. Ashby. Electrician 129:329 S 25 '42

New approach to the study of arcback. J. E. White. bibliog il diags J Ap Phys 13:265-73 Ap '42

New multiple high-speed air circuit breaker for mercury-arc-rectifier anode circuits and its relation to the arc-back problem. J. W. Seaman and L. W. Morton. bibliog il diags Elec Eng 61:Trans 788-96 N '42

Phase of arcback. A. W. Hull and F. R. Elder. bibliog il diags J Ap Phys 13:171-8 Mr '42

Planning rectifier installations. L. W. Reinken. Metal Finishing 40:250-1 My '42

Power rectifiers, with notes on converting machinery. J. Rosslyn. 199p $2.50 Chemical pub. co. '41

Recent developments in metal rectifiers as applied to electrodeposition. D. Ashby. Electrician 128:593-4 Je 12 '42

Rectifier in field circuit improves motor control. L. E. Miller. il diags Power 86:733 O '42

Rectifier performs well on fluctuating load of coke ovens. L. T. Jones. il Elec W 118:923-4 S 19 '42

Rectifier terminology and circuit analysis. C. H. Willis and C. C. Herskind. bibliog Elec Eng 61:Trans 496-9 Jl '42

Rectifiers for electroplating. R. W. Williams. il diags Metal Finishing 40:583-6 N '42

Rectifiers in hard chrome plating. J. C. Bogle. il Iron Age 149:56-8 F 5 '42

Rectilinear rectification applied to voltage integration. S. S. Stevens. diags Electronics 15:40-1 Ja '42

Regulated rectifiers in telephone offices. D. E. Trucksess. diags Elec Eng 61:Trans 613-17 Ag '42

Sealed-tube ignitron rectifiers. M. M. Morack and H. C. Steiner. bibliog il diags Elec Eng 61:Trans 594-9 Ag '42; Same. Gen Elec R 45:459-66 Ag '42

Selenium rectifiers. C. A. Clarke. il diags Product Eng 13:135-8, 266-8 Mr, My '42

Selenium rectifiers and their design. J. E. Yarmack. bibliog il Elec Eng 61:Trans 488-95 Jl '42

Special rectifiers assist changeover. diag Elec W 116:1920+ D 13 '41

Static relay. W. R. Thistlethwaite. diags Elec R (Lond) 130:167-8 F 6 '42

Steel-clad mercury-arc rectifiers; development of pumpless unit. il Electrician 127:233-4 O 24 '41

Steel mill applications of rectifiers. M. J. Leding. il Iron Age 149:59 Ap 9 '42

Three-wire supply from a rectifier. L. W. Morton. diag Elec W 117:1551-3 My 2 '42

Use of rectifiers for anodizing. J. C. Bogle. il Metal Finishing 40:129-30+ Mr '42

See also

Electric inverters

Ignitron

Radio rectifiers

Thyratron

Testing

Checking performance of selenium rectifiers. il Metal Finishing 40:140 Mr '42

ELECTRIC refrigerators. See Refrigerators, Electric

ELECTRIC relays. See Relays

ELECTRIC research

Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:56-8 Ja '42

Electrical research; British electrical and allied industries research association. Engineering 153:67-8 Ja 23 '42

ELECTRIC research—*Continued*

Lord Falmouth looks into industrial future. Electrician 128:141-2 F 20 '42

Progress in engineering knowledge during 1941. P. L. Alger. bibliog(256 titles) il diags Gen Elec R 45:82-119 F '42

Research activities in war-time; annual meeting of E.R.A. Electrician 128:139-40 F 20 '42

Rural electrification and research. A. G. H. Dent. il Electrician 129:189-91 Ag 21 '42

Wartime electrical research. L. A. Hawkins. il Elec Eng 61:285-8 Je '42; Same. Gen Elec R 45:323-5 Je '42; Abstract. Electrician 129:134-5 Ag 7 '42

Work of E.R.A. Elec R (Lond) 130:77-8 Ja 16 '42

Work of the E.R.A.; annual report of 1941. Electrician 128:37-8 Ja 16 '42

See also

Electric laboratories

ELECTRIC resistance

Alloys of manganese-nickel and copper; the electrical resistance and temperature coefficient of electrical resistance. R. S. Dean and C. T. Anderson. Am Soc for Metals Trans 29:899-906 D '41

Change in the electric resistance of a single crystal of magnetite by magnetic field at low temperatures. H. Masumoto and Y. Shirakawa. Phys R 60:835 D 1 '41

Contact resistance; temperature rise in switches. R. W. J. Cockram. il Elec R (Lond) 131:231-4 Ag 21 '42

Controller resistances. W. de Renzi. diags Electrician 129:93-7 Jl 24 '42

Electric resistance and anisotropy of artificial graphite between 290° K. and 12° K. A. Goetz and A. Holser. Electrochem Soc Trans 82 (preprint 7):89-94 O '42

Electric resistance hearths; some developments in alloys for use as elements. Electrician 128:200-2 Mr 6 '42

Negative and positive resistance; sources and sinks of power. D. M. Tombs. diags Wireless Eng 19:341-6 Ag '42

Pick-up and resistance of counterpoise systems. W. W. Lewis. Elec W 116:1720-1+ N 29 '41

Resistance transformations; delta-star and star-delta units. G. Stubbings. il Electrician 127:307-8 N 28 '41

Resistivity of antimony-tin single crystals at low temperatures. C. T. Lane and W. A. Dodd. Phys R 61:183-6 F 1 '42

Rubber resistivity and conductivity. Elec R (Lond) 129:401 O 17 '41

Spot welding; contact resistance. R. F. Tylecote. bibliog il diags Welding J 20: sup591-602 D '41

Static electric problems in tires. J. W. Liska and E. E. Hanson. bibliog diags Ind & Eng Chem 34:618-24 My '42

Stress and electrical resistance. W. G. Jordan, jr. il Power Pl Eng 46:54-5 Ja '42

Study of driven rods and counterpoise wires in high-resistance soil on Consumers power company 140-kv system. J. G. Hemstreet, W. W. Lewis and C. M. Foust. Elec Eng 61:Trans 628-33 S '42

Temperature and resistance; graphic method of obtaining relationships rapidly. W. Bacon. Elec R (Lond) 129:432 O 24 '41

Three-phase resistance loads. G. W. Stubbings. diag Electrician 129:368-9 O 2 '42

Unsymmetrical attenuators. P. M. Honnell. diags Electronics 15:41-3 Ag '42

Use of statistical control in corrosion and contact resistance studies. W. E. Campbell. Electrochem Soc Trans 81 (preprint 26):391-404 Ap '42

See also

Dielectric constants
Electric conductivity
Insulation (electric)
Skin effect

ELECTRIC resistors

Capacitance effects in high ohmic resistances and the advantages of the radial spiral; abstract. A. Klemt. Wireless Eng 19:218-19 My '42

Electrode shaping to establish a uniform electric field along high voltage resistors. P. Shallcross. diags Franklin Inst J 233:471-84 My '42

Heavy test resistances. D. W. Mackie. diags Elec R (Lond) 129:399-401 O 17 '41

Improvements in preventive-coil control for a-c locomotives with particular reference to resistor transition. P. H. Hatch and H. S. Ogden. il diags Elec Eng 61:Trans 727-32 O '42

ELECTRIC roasters

Merchandizing

You who have roasters, prepare to sell them now! Elec West 89:53 Jl '42

ELECTRIC safety lamps. See Safety lamps, Electric

ELECTRIC saws. See Saws, Electric

ELECTRIC service, Rural

Clyde Valley electrical power co. il Elec R (Lond) 131:323-7 S 11 '42

Codes speed rural trouble shooting; methods used successfully in Iowa by Fort Dodge gas & electric company and Peoples gas & electric company. W. H. Hogan; M. Harpster. diags Elec W 117:314 Ja 24 '42

Construction of overhead lines in rural England. W. E. Darby. diags Inst E E J 89 pt 1:285-7 Je '42

Continuous roll map shows rural circuits. il Elec W 116:1586 N 15 '41

Electricity will help fill freedom's market basket. P. T. Montfort. Edison Elec Inst Bul 10:157-9 Ap '42

Expand functions of rural meter readers. Elec W 117:844 Mr 7 '42

Helping the farmer. il Elec R (Lond) 130: 229-32 F 20 '42

How utilities are aiding farmers to secure maximum food production. Edison Elec Inst Bul 10:99-102+ Mr '42

Locating customers on rural lines. K. M. Norcross. map Elec W 118:308 Jl 25 '42

Mains development in rural areas. Electrician 129:299-301 S 18 '42

Meter failures guide REA to correctives. F. B. Scott. il maps Elec W 118:1086-7 O 3 '42

New engineering and a new industry; rural-electrification engineering. M. M. Samuels. Elec Eng 61:517-20 O '42

Read rural meters on quarterly basis. Elec W 118:328+ Jl 25 '42

Reclosers avoid substation investment. diag Elec W 116:2060 D 27 '41

Rural amenities; Scott committee's report. Elec R (Lond) 131:269-71 Ag 28 '42

Rural areas; post-war electrical development. H. Greaves. Elec R (Lond) 129:707-8 D 19 '41

Rural electrification in the United States. R. Stewart. Edison Elec Inst Bul 9:381-6, 409-15, 463-6+ S-N '41

Rural electrification now and after the war. il Elec R (Lond) 130:101-3 Ja 23 '42

Rural industry; importance of having electrical facilities available. il Elec R (Lond) 131:165-9 Ag 7 '42

Rural supply problems; abstracts. P. E. Rycroft. Elec R (Lond) 131:520-1 O 23 '42; Electrician 129:443-5 O 23 '42

Use of protective multiple earthing and earth-leakage circuit-breakers in rural areas (second report). H. G. Taylor. diags Inst E E J 88 pt 2:415-22 O '41

See also

Electricity on the farm
Rural electrification administration

Cooperative lines

Ark-La case referred to national war agencies; Arkansas utility commission finds that Grand River generation and transmission system to aluminum plant is waste. Elec W News ed 117:151 Ja 17 '42

Ark-La line in Arkansas gains approval of WPB; power for aluminum plant. Elec W News ed 117:416 Ja 31 '42

Union push in REA. Business Week p60 Ja 24 '42

WPB declares Texas coop violating priorities. Elec W 117:659-60 F 21 '42

ELECTRIC shock. See Electricity, Injuries from

ELECTRIC shops (repair)

Conservation theme of appliance repair plan; New Orleans Public Service program for dealers. il Elec W 117:1347-8 Ap 18 '42

Drive-in motor shop; California electric co. of Oakland. il Elec West 88:58 Ap '42

ELECTRIC shops (retail trade)

Business builder; small specialties can help out now. Elec West 88:71 Je '42

Business guide for electrical dealers and salesmen; help hometown conversion to war production. Elec West 89:61 S '42

Business guide for electrical dealers and salesmen; service and repair. Elec West 88:73-5 F; 75-7 Je '42

Display to please people. K. Hampton. Elec West 89:54 Jl '42

Repair service to please. K. Hampton. Elec West 89:72 O '42

What can dealers do? J. C. Chamberlain. il Elec West 88:66-8 Je '42

What's in Herb Names? electric shop management under war conditions. il Elec West 89:50-1 Ag '42

ELECTRIC shovels

New shovel and trucks; Fidelity no. 11 strip mine. il Coal Age 47:82-4 Ap '42

New shovel operation and dragline at Maumee mines in Indiana. il Coal Age 47: 40-2 Mr '42

Progress in shovel and dragline electrification. P. McShane. il Min Cong J 28:16-17 O '42

Repair

Boom maintenance stepped up at Ayrshire Patoka by using pipe in rebuilding job. M. A. Walsh. il Coal Age 46:61 N '41

ELECTRIC signals

Protective signaling systems. Weekly Underw 146:51-2 Ja 3 '42

Push button starts automatic raid alarm. R. T. Abernethy. diags Elec W 118:792+ S 5 '42

Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

See also

Electric alarms
Fire alarms
Light signals
Railroads—Signals

ELECTRIC signs

Electronic control of sign blackout. diag Elec W 117:1032 Mr 21 '42

Self-blacking signs; dousing lights by use of tiny radio device tuned to carrier wave. Business Week p60 Ja 31 '42

ELECTRIC sparks

Detecting the saboteur static electricity in gasoline fires. R. Beach. il diags Elec Eng 61:501-8 O '42

Electric spark in air. J. M. Meek. Inst E E J 89 pt 1:335-51 bibliog(p350-1) Ag '42; Abstracts. Elec R (Lond) 130:243-4 F 20 '42; Electrician 128:203-4 Mr 6 '42; Discussion. Inst E E J 89 pt 1:352-6 Ag '42; Elec R (Lond) 130:274-5 F 27 '42; Electrician 128:203-4 Mr 6 '42

Electrical charges produced by flowing gasoline. S. S. Mackeown and V. Wouk. il diags Ind & Eng Chem 34:659-64 Je '42

Mechanism of the electric spark. J. Zeleny. bibliog J Ap Phys 13:444-50 Jl '42

Safe electric trucks; explosion-prevention. il Safety Eng 83:31-2 Je '42

Spark spectrographic analysis of commercial tin. B. F. Scribner. bibliog 2 pls diags J Research Nat Bur Stand 28:165-90 F '42

ELECTRIC standards

Co-ordination as a means to standardization. E. G. Taylor. Inst E E J 89 pt 1:77-80 F '42

Electrostatic voltmeter as a d.c./a.c. transfer instrument; errors appear to be due to semi-conducting films on surfaces of elements; believed to be absent in voltmeters with working surfaces of freshly-cleaned platinum. R. S. J. Spilsbury and A. Felton. diags Inst E E J 89 pt 2:129-32; Discussion. 133-6 Ap '42

Machine tool electrical standards; reference book sheets. diags Am Mach 85:1283, 1285, 1339, 1341; 86:31, 33 D 10 '41-Ja 8 '42

Outdoor bushings; their construction, testing and standardization. W. A. Cook. bibliog diags Inst E E J 88 pt 2:302-25 Ag '41; Discussion. 88 pt 2:325-41; 89 pt 2:256-67 Ag '41, Je '42

Short-circuit rating and testing of current-limiting reactors; abstract. J. G. Wellings and R. V. Wheeler. Electrician 128:285; Discussion. 285-8 Mr 27 '42

Standardization of distribution in densely loaded areas. J. W. Leach. diag plans Inst E E J 88 pt 2:525-41; Discussion. 541-60 D '41

War standard coordinates requirements for machine tool electrical connections. B. P. Graves. il Ind Stand 13:185-8 Jl '42

See also

Electric equipment—Standards
Electric meters—Standards
Voltage standards

ELECTRIC storage battery company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:599 S 19 '42

Record. H. Lawrence. Barron's 22:20 Ap 20 '42

ELECTRIC stoves

E.D.A. cooking committee; the rewinding of boiler plates. Electrician 129:304 S 18 '42

See also

Electric cooking

Advertising

You'll hear about it; electric stove advertising campaigns. il Gas Age 88:23-4 D 4 '41

Merchandizing

Business guide for electrical dealers and salesmen. Elec West 88:67-70 Ap '42

Hughes award goes to Pacific gas and electric co.; leadership in range campaign basis for award. il Elec West 89:48-9 Jl '42

Range-water heater combination reduces distribution demand. W. S. Fleming. Elec W 116:1887-8+ D 13 '41

ELECTRIC substations

Additional substations from shifted spares. Elec W 117:2061 Je 13 '42

Blueprint for conserving time and materials on pipe-line systems; recommendation for substations, motors, and switchgear. H. E. Dralle. il diags Pet Eng 13:76-8, 80 Mr '42

Bomb damage; examples of supply system incidents. il Elec R (Lond) 130:235-7 F 20 '42

Coordination of distribution and power supply system voltages. C. E. Arvidson. Edison Elec Inst Bul 10:295-7 Ag '42; Same. Elec W 118:769-71 S 5 '42

Electrical developments of 1941; unit substations. G. Bartlett. il Gen Elec R 45: 17 Ja '42

Evaluate steel pipe as a.c. conductor; substitute for copper in high-voltage substations. S. C. Killian. diags Elec W 117:1349-50 Ap 18 '42

Flexible supply of industrial energy; roof type substation. il Elec W 117:680 F 21 '42

Fundamentals of industrial distribution systems. D. L. Beeman and R. H. Kaufmann. il diags Gen Elec R 45:235-44 Ap '42; Same. Elec Eng 61:Trans 272-9 My '42; Abstracts. Iron Age 149:63 F 5 '42; Aero Digest 40: 243-4 Mr '42; Elec West 88:41 Mr '42; Power 86:205-7 Mr '42; Power Pl Eng 46:72-5 Mr '42; Steel 110:72, 74+ Mr 23 '42

How to gain maximum facility, flexibility, and economy in industrial power distribution; use of unit substations. N. L. Hadley. il diag Gen Elec R 44:597-8 N '41

Load-center distribution system for industrial plants, shipyards and naval projects. il diag Marine Eng 47:91-4 F '42; Same cond. Automotive & Aviation Ind 86:16-17+ Mr 1 '42

Load-center power distribution; Chem. & Met. interpretation. D. L. Beeman and R. H. Kaufmann. il diags Chem & Met Eng 49:97-8 Mr '42

ELECTRIC substations—*Continued*

Loop that is not a loop; Marinship electric distribution system. il diags Elec West 89:45-7 O '42
Power supply to distribution substations in wartime. H. P. St Clair. diags Elec Eng 61:Trans 112-17 Mr '42; Abstract. il Power Pl Eng 46:69-71 My '42
Review of installation methods; abstract. L. C. Grant. Elec R (Lond) 32:337-8 Mr 13 '42; Discussion. 130:369-70 Mr 20 '42
Standardized load-center unit substations for low-voltage a-c systems. E. M. Hunter and J. C. Page. il diags Elec Eng 61:Trans 519-25 Jl '42
Switchgear for the war plant; Westinghouse electric & manufacturing company. M. H. Hobbs. il Factory Management 100:138, 140 N '42
Transmission and substations, 1941. Elec W 117:269-71 Ja 24 '42
Unit sub-stations. il Electrician 129:378-9 O 9 '42
Wood-frame substation for an army camp saves steel. il Eng N 129:505 O 8 '42

See also
Electric distribution
Electric rectifiers
Electric transformers
Electric transmission

Design

Building 1,500-kva. sub from salvaged material; Cambridge (Mass.) electric light company. il Elec W 117:1875 My 30 '42
Designed to conserve; simplified substation layout utilizes wood structures. C. E. Baugh. il diags Elec West 89:71 S '42
Economical design for tap-off substation. diags Elec W 117:1846 My 30 '42
Ignitron rectifiers in industry. J. H. Cox and G. F. Jones. bibliog il diags Elec Eng 61:Trans 713-18 O '42
J. D. Ross substation is Northwest's largest. D. G. Worth. il Elec West 89:41-4 Ag '42
New standardized single-circuit unit substation. E. M. Hunter and A. J. Lynch. il diags Gen Elec R 44:663-8 D '41
Planning distribution centres. T. H. Carr. diags Electrician 128:480-3 My 15 '42
Power design in defense plants; factory substations. H. Winte. diags plans Elec W 117:478-81 F 7 '42
Saving steel in substation layout. il diags Elec W 117:1844 My 30 '42
Substation fits into surroundings. il Elec W 117:526 F 7 '42
Substations by the dozen built by Bonneville. R. F. Stevens. il Elec W 116:1568-70+ N 15 '41
Unit substation; Eastern Oregon light & power company. il Elec West 88:40 Ja '42
Utilizing existing design in substation expansion. diag Elec W 117:1842 My 30 '42
Wood replaces steel sans special hardware. il diags Elec W 117:1843 My 30 '42

Equipment

Capacitors help Attleboro lift power factor, cut peak. H. W. Thompson. il diag Elec W 117:1337-9 Ap 18 '42
Coupler cuts cost of potential indication. R. A. Koppana. il diag Elec W 117:1680+ My 16 '42
Distribution substations and wartime necessities. F. C. Poage and M. W. Reid. bibliog diags Elec Eng 61:Trans 117-22 Mr '42; Abstract. Power Pl Eng 46:71-2 My '42
Fundamental considerations in selecting metal-enclosed switches for unit substations and secondary-network transformers. W. J. McLachlan and D. L. Beeman. il diags Gen Elec R 45:293-8 My '42
Gets essential data from few instruments; distribution substation. il Elec W 117:2246 Je 27 '42
How electric utilities are solving operating problems arising out of war; 142 actual cases gathered from practices of 60 operating systems. il diags Elec W 117:1829-74 My 30 '42
How to apply batteries and charging equipment for power houses and substations; diagram and table. Elec W 118:166 Jl 11 '42
Memphis has uniform transfer bus scheme. il diag Elec W 118:160 Jl 11 '42
Multi-purpose regulator aids voltage, load control. W. J. Lyman. il diags Elec W 117:648-50 F 21 '42
999 capacitors in one 15,000-kva. block. il diag Elec W 118:963 S 19 '42
Station bus scheme frees equipment. diags Elec W 118:480 Ag 8 '42
Substation conduit structure. il Elec W 117:1218 Ap 4 '42
Substation inspection. Elec W 117:838-9 Mr 7 '42
Throwover and reclosure in simplified combination. A. E. Anderson. diags Elec W 117:1503-4 My 2 '42
War maintenance; d.c. substations. il Coal Age 47:81-2 O '42

Fires and fire protection

Educational program for industrial fire prevention protection. J. A. McGuckin. Edison Elec Inst Bul 10:91-2 Mr '42
Mobile water spray fire-fighting unit. il Elec W 117:1546 My 2 '42

Lighting

Adequate lighting for plant protection. L. M. Applegate. diags plans Elec West 88:41-3 Ja '42

Protection

Adequate lighting for plant protection. L. M. Applegate. diags plans Elec West 88:41-3 Ja '42
Back-up connection safeguards power. diag Elec W 118:306 Jl 25 '42
British find substation equipment vulnerable. J. N. Waite. Elec W 118:453 Ag 8 '42
Effective transformer barricade; Bonneville engineers design ventilated wood and sand barrier. il diags Elec West 89:63 O '42
Four safety measures for substations; illustrations. Elec W 117:513 F 7 '42
Practical lightning protection at mine substations. C. C. Ballard. il Min Cong J 27:35-7 D '41
Shielding of substations. C. F. Wagner, G. D. McCann and C. M. Lear. bibliog diags Elec Eng 61:Trans 96-100 F '42

Safety measures

Barrier boards and scaffold promote safety. J. R. Steele. il diags Elec W 117:2225 Je 27 '42

Supervisory control

Seattle City Light's new substations. H. G. Silliman. il diag Elec West 89:61-2 O '42
Supervisory remote control for Wellington, New Zealand. E. M. S. McWhirter and H. J. Ward. il Engineer 174:116-18 Ag 7 '42

ELECTRIC substations, Outdoor

Designed to conserve; simplified substation layout utilizes wood structures. C. E. Baugh. il diags Elec West 89:71 S '42
Semi-portable sub delivers economies. F. Curtis. il Elec W 117:691 F 21 '42
Timber frame substation saves materials. H. N. Fox. il Eng N 128:487 Mr 26 '42; Same. Elec W 117:1382 Ap 18 '42
Two-way power supply, one-way for regulation; switching arrangement in substation. il diag Elec W 118:1461 O 31 '42

ELECTRIC substations, Portable

Flexible portable sub for emergencies. il diags Elec W 117:1835 My 30 '42
Mobile power equipment for wartime emergencies. il plans Elec West 89:35-7 Jl '42
Mobile substation in use two-thirds of the time. J. D. Roberts. il Elec W 117:78-9 Ja 10 '42
Portable sub. F. Curtis. il Elec West 88:54 Ap '42
Semi-portable sub delivers economies. F. Curtis. il Elec W 117:691 F 21 '42

ELECTRIC switches

Automatic outdoor horn-gap switching. O. A. Huntsman. diags Elec W 116:1906+ D 13 '41
Breaker and switch contacts resurfaced with silver alloy. L. M. Limpus. il Elec W 118:1271 O 17 '42

ELECTRIC switches—*Continued*

Circuit-controlling devices on power supply systems. C. W. Marshall. bibliog il diags Inst E E J 89 pt 1:175-90 Ap '42

Compact tower design for switching war loads. il diag Elec W 117:1840 My 30 '42

Contact resistance; temperature rise in switches. R. W. J. Cockram. il Elec R (Lond) 131:231-4 Ag 21 '42

Crompton Parkinson cubicle-type switchgear. il Engineering 154:56 Jl 17 '42

Cubicle switchgear. il Electrician 129:7-8 Jl 3 '42

Dependable signal switch. P. C. Ziemke. diags Can Min J 63:564 S '42

Effect of initial conditions on subharmonic currents in a nonlinear series circuit. S. J. Angello. diags Elec Eng 61:Trans 625-7 S '42

Electrical contact problems. il Engineer 174: 146-9 Ag 21 '42

Electrical developments of 1941; switch-gear. G. Bartlett. il Gen Elec R 45:15-17 Ja '42

Fault conditions; relationship between cables and switchgear. Elec R (Lond) 130:719-21 Je 5 '42

Flexible power supply to boiler auxiliaries. il diag Elec W 118:158 Jl 11 '42

Foolproof blasting switch. P. C. Ziemke. diag Eng N 127:896 D 18 '41

Fundamental considerations in selecting metal-enclosed switches for unit substations and secondary-network transformers. W. J. McLachlan and D. L. Beeman. il diags Gen Elec R 45:293-8 My '42

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:124-5 O '42

How to protect equipment against failure of flow; new data allow easy selection of orifices for use with differential pressure switches. W. Goodman. diags Heating-Piping 14:347-50, 417-21 Je-Jl '42

Low-cost switch used for blackout. il Elec W 117:1044 Mr 21 '42

Midget switches make press operation safe. E. H. Schaeffer. il Factory Management 100:96 Mr '42

Modernising switchgear; back-to-back installation and space saving. il Electrician 128:217-18 Mr 13 '42

Refinements improve industry service. Elec W 118:324+ Jl 25 '42

Silver alloy contacts for electrical equipment. Mach 48:155 Ja '42

Silver plating boosts switch capacity. il Elec W 117:1831 My 30 '42

Switch scheme for feeders, regulators. diag Elec W 118:488+ Ag 8 '42

Switchgear for the war plant; Westinghouse electric & manufacturing company. M. H. Hobbs. il Factory Management 100:138, 140 N '42

Switchgear in industry; arrangements in large establishments supplied from public mains. W. A. Brown. Electrician 128:50-1 Ja 23 '42; Abstract. Elec R (Lond) 130:113 Ja 23 '42

Switchgear maintenance; its relation to works efficiency. il Electrician 128:346-8 Ap 10 '42

Switchgear progress. R. T. Lythall. Elec R (Lond) 130:689-91 My 29 '42

Switchgear transaction streamlined; diagrams and specifications used in purchasing. E. H. Beckert. diags Textile World 92:99 O '42

Technical progress during 1941; switchgear standardization and its relation to output. C. C. Garrard. diag Electrician 128:63-4 Ja 30 '42

Trick hookup replaces centrifugal switch. A. A. Schulke. Power 86:407-8 Je '42

See also

Electric circuit breakers
Electric contacts
Electric control
Electric fuses
Electric motors—Control
Switchboards

Control

Simplifying switch mechanism control. J. A. Mitchell. diags Elec W 118:1122 O 3 '42

Design

Simpler switch mechanisms save materials; General Electric cam switch. il diags Product Eng 13:372-3 Jl '42

Failure

Insulator defect blamed for Milwaukee outage. Elec W 118:460 Ag 8 '42

Manufacture

Application of the pulsation welding process in the welding of large structures. O. C. Frederick and R. P. McCants. il diags Welding J 21:321-5 My '42

Electric resistance brazing of switch parts. il Steel 110:85 F 23 '42

Standards

Standards for switchgear apparatus. Elec Eng 61:478-9 S '42

Testing

Field measurements of insulation. E. A. Burton, J. S. Forrest and T. R. Warren. bibliog diags Inst E E J 89 pt 2:288-305 Ag '42; Abstract. Electrician 128:123-4 F 13 '42; Discussion. Inst E E J 89 pt 2:305-16 Ag '42

Test table for time switches. C. Iatonna. il diag Elec W 117:1536 My 2 '42

ELECTRIC testing

Car analyzer tests P.C.C. equipment. I. W. Lichtenfels. il diags Transit J 85:426-8 N '41

Electrical tester to check complex electrical installations on Lockheed planes. il Aviation 41:134+ My '42

Heavy test resistance. D. W. Mackie. diags Elec R (Lond) 129:399-401 O 17 '41

High-power testing; laboratory of Westinghouse electric & mfg. co. il Steel 110:66-7 Mr 16 '42

High power testing pushed to new limits; high power laboratory at the Westinghouse East Pittsburgh works. W. B. Batten. il Power Pl Eng 46:79-81 Mr '42; Same. Blast F & Steel Pl 30:255-6 F '42

High-speed condenser timer for testing. E. T. Vickerman, jr. and S. E. Edelstein. diags Elec W 117:1534+ My 2 '42; Abstract. Electronics 15:70+ S '42

Measurement of lightning voltages and currents in South Africa and Nigeria, 1935 to 1937. F. R. Perry. bibliog diags pl Inst E E J 88 pt 2:69-87 Ap '41; Discussion. 88 pt 2:521-4 D '41

Nomographic charts for vapor pressure; useful in high-voltage testing of gaps, bushings, insulators, and coupling capacitors. K. D. Beardsley. Gen Elec R 45:281-3 My '42

Power-factor tests. G. W. Stubbings. diags Elec R (Lond) 131:301-2 S 4 '42

Power factor variation of single phase. G. W. Stubbings. diags Electrician 128:442-3 My 8 '42

Sine wave test set is flexible. il Elec W 116: 1750+ N 29 '41

See also

Dynamometers
Electric instruments
Electric laboratories
Electric measurements
Electric resistance

also subdivision Testing under special headings; e.g. Electric cables; Electric transformers; Insulation (electric)

ELECTRIC testing of metals

Eddy current type flaw detectors for non-magnetic metals. I. Vigness, J. E. Dinger and R. Gunn. diags J Ap Phys 13:377-83 Je '42

Non-destructive testing; modern electrical, magnetic and acoustical methods of studying welds, castings, etc. il diag Automobile Eng 31:448-50 D '41

ELECTRIC tools, Portable

Graphite as a lubricant for high speed tool drives. R. C. Newbury. il diag Iron Age 149:44-6 Mr 5 '42

Hicycle portable drill and reamer. il Engineering 153:487 Je 19 '42

How vibrating tools affect some workers. Nat Safety N 46:97 Ag '42

ELECTRIC tools, Portable—*Continued*

Maintenance and conservation of electric and pneumatic portable tools. il Mach 49:153 S '42

Make 'em last; suggestions on maintenance and upkeep of power tools. S. S. Mellor. il Am Bld 64:59 Ja '42

Portable tools; examples of such units in subsidiary applications. il Automobile Eng 32:280-2 Jl '42

Temporary power for hand tools used in construction; typical wiring diagrams. Elec West 89:69 Ag '42

Vibrating hand tool of many uses. diag Sci Am 165:338 D '41

Testing

Earth tester for portable electric tools. il diag Engineering 154:187 S 4 '42

ELECTRIC traction

Electrical developments of 1941; urban transit. G. Bartlett. il Gen Elec R 45:40-1 Ja '42

Future developments in the uses of electricity. H. C. Turner. Inst E E J 89 pt 1:83-4 F '42

Technical progress during 1941; electric traction. J. H. Cansdale. Electrician 128:59 Ja 30 '42

See also

Electric locomotives
Electric railroads
Electric trucks
Motor cars (railroad)—Diesel-electric
Railroads—Electrification
Street railroads
Subways
Trolley buses

ELECTRIC transformers

Abnormal currents in distribution transformers due to lightning. J. M. Bryant and M. Newman. il diag Elec Eng 61:Trans 564-8 Ag '42

Additional substations from shifted spares. Elec W 117:2061 Je 13 '42

Analysis of short circuits for distribution systems. C. F. Dalziel. bibliog diags Elec Eng 61:Trans 757-64 O '42

Annis split-core current transformer. il Instruments 15:66 Mr '42; Steel 110:94 F 23 '42

Boosting and bucking transformers. V. N. Friedman. diags Power Pl Eng 46:57-9 S '42

Check wiring and transformer loadings to maintain production; industrial plant equipment. R. G. Hardy. il diags Elec W 117:2059-61 Je 13 '42

Coupler cuts cost of potential indication. R. A. Koppana. il diag Elec W 117:1680+ My 16 '42

Electrical developments of 1941; transformers. G. Bartlett. il Gen Elec R 45:11-13 Ja '42

Electrical engineering in 1941. il Engineer 173:47-9 Ja 16 '42

Fundamental considerations in selecting metal-enclosed switches for unit substations and secondary-network transformers. W. J. McLachlan and D. L. Beeman. il diags Gen Elec R 45:293-8 My '42

Heavy current meter testing. G. W. Stubbings. diags Electrician 129:413-14 O 16 '42

How to choose current transformers and meters for wide range loads. E. C. Wentz. Elec W 117:672 F 21 '42

How to connect controls, meters and relays for three-winding transformer banks; wiring diagram. Elec W 118:966 S 19 '42

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:122-3 O '42

Large single-phase loads; obtaining balanced three- to single-phase transformation. A. L. Morris. diags Elec R (Lond) 131:145-6 Jl 31 '42; Excerpts. Elec W 118:766 S 5 '42

Large Swedish transformer. il Elec R (Lond) 130:703 My 29 '42

Linear couplers for bus protection. E. L. Harder and others. bibliog il diags Elec Eng 61:Trans 241-8 My '42

Lo-vo-lite; low voltage transformer switch fuse unit for industrial lighting. il Electrician 129:365-6 O 2 '42

Maintenance and servicing of electrical instruments; instrument transformers. J. Spencer. il diags Instruments 14:405-8 D '41

New transformers built of old parts. C. B. Hawkins. il Elec W 117:2086 Je 13 '42

Old-style transformer rebuilt for emergency. il Elec W 117:1854 My 30 '42

Old transformers; making the best use of them as salvage. A. L. Morris. Elec R (Lond) 130:467 Ap 10 '42

Operation of a 25 cycle transformer on 60 cycles. W. C. Sealey. Power Pl Eng 45:90 D '41

Power supply to distribution substations in wartime. H. P. St Clair. diags Elec Eng 61:Trans 112-17 Mr '42; Abstract. il Power Pl Eng 46:69-71 My '42

Progress in engineering knowledge during 1941. P. L. Alger. Gen Elec R 45:97 F '42

Protection of pilot-wire circuits. E. L. Harder and M. A. Bostwick. diags Elec Eng 61:Trans 645-52 S '42

Secondary-network systems serve high-production power loads. H. D. James. il diag Power 86:326-9 My '42

Some problems encountered on a distribution system, with special reference to Shanghai. V. Sia. il diags Inst E E J 89 pt 2:143-52 Ap '42

Sweden installs large transformer. For Comm W 9:23 O 24 '42

Switchgear in industry; arrangements in large establishments supplied from public mains. W. A. Brown. Electrician 128:50-1 Ja 23 '42

Technical progress during 1941; power transformers. E. T. Norris. Electrician 128:59 Ja 30 '42

Transformer shift improves voltage. diag Elec W 116:1910+ D 13 '41

Transmission of power in compressed gas atmospheres; library research. H. M. Hobart. diags Franklin Inst J 234:331-54 O '42

Untanking tower handles transformers. L. J. Pospisil. il diag Elec W 117:310 Ja 24 '42

War transformers; conservation proposed by better cooling and eliminating spares. Elec West 89:47-8 Ag '42

Welding transformers and their control equipment for Unionmelt welding. W. E. Wilson. il plans Gen Elec R 45:451-7 Ag '42

World's biggest transformer; Swedish ASEA works. Engineer 173:458 My 29 '42

See also

Electric rectifiers
Electric substations
Electric transmission

Autotransformers

How to provide for wide-range d-c voltage adjustment in large mercury-arc rectifiers; use of voltage-regulating autotransformers; plants for producing aluminum. T. R. Rhea. il diag Gen Elec R 44:611-13 N '41

Saves 5,000 kw. by voltage increase; Kerr-Anaconda line. Elec W 118:164 Jl 11 '42

Transformer uses two load ratio adjusters; autotransformer built for the University of California cyclotron. E. F. Christensen. il diag Elec W 117:2077 Je 13 '42

Cleaning

Hot-solution method speeds transformer paint removal. A. P. Schulze. il Power 86:304-5 My '42

Connections

How to connect controls, meters and relays for station service transformer banks; diagram. Elec W 117:1541 My 2 '42

Power-system harmonics. T. W. Schroeder. diags Gen Elec R 45:399-402 Jl '42

Secondary breakers give adequate service. Elec W 117:2260+ Je 27 '42

Transformer connections can work for you. T. J. Woth. diags Factory Management 100:120, 122, 124 Je '42

What is the Le Blanc method of connecting transformers to convert from three-phase to two-phase supply? diag Electrician 128:343-4 Ap 10 '42

ELECTRIC transformers—Connections—*Cont.*

What is the significance of expressions such as 32 Yd 1 in connection with star-delta transformers? diags Electrician 128:650-1 Je 26 '42

Cooling

Added tubes restore cooling capacity. il Elec W 118:1474 O 31 '42

Air-cooled transformers enter new fields. Power 86:294c+ Ap '42

Air-cooled transformers solve mine power problem. H. M. Wolflin. il Elec W 118:283 Jl 25 '42

From water- to air-cooled, same ratings. il Elec W 118:326 Jl 25 '42

Heat exchangers add capacity and life. C. E. Baugh. Elec W 118:972+ S 19 '42

Immersed-motor pump for power transformers. L. H. Burnham. il Gen Elec R 45:131 F '42

Not the life of Riley; endurance testing of transformer cooling fans. E. V. DeBlieux. il Gen Elec R 45:221-2 Ap '42

Novel heat exchanger cools transformers. il plan Elec W 118:77 Jl 11 '42

Packaged units boost transformer ratings. G. W. Clothier. il diag Elec W 118:1113-14 O 3 '42

Radiators added without untanking. C. H. Spangler. il Elec W 118:478 Ag 8 '42

Solution found for mine power problem; air-cooled transformer. H. M. Wolflin. il Elec West 88:32-3 My '42

Special cooling for higher loadings. il Elec W 118:480 Ag 8 '42

Water spray cooling of power transformers. il Elec W 117:1832 My 30 '42

Design

Instrument transformers; new designs of liquid-filled transformers. I. H. Sclater and G. Camilli. il diags Gen Elec R 45:521-5 S '42

Transformer design. D. W. McJannet. il diag Elec R (Lond) 131:203-6 Ag 14 '42

Drying

Drying-out circuit self-supervised. diag Elec W 118:638 Ag 22 '42

How to dry transformers. diag Textile World 92:118 S '42

Inspection

Internal inspection of transformers. J. M. Lamb. Locomotive 44:86-7 Jl '42

Installation

Adapter used for direct pole mounting. F. Sanford. il diags Elec W 117:514 F 7 '42

Change-out policy conserves materials. J. D. Malone, jr. Elec W 117:1702 My 16 '42

Creosoted timber replaces concrete; foundation for transformer installation. diag Elec W 117:1841 My 30 '42

Direct comparison leads to direct mounting of pole-supported transformers. F. Sanford. il diags Edison Elec Inst Bul 9:444-6 N '41

Gin pole used to mount transformers. il Elec W 117:1379 Ap 18 '42

How to install distribution transformers; diagrams. Elec W 118:1469 O 31 '42

Mast platform for network transformers. il diags Elec W 117:852 Mr 7 '42

Nine transformer shifts save copper. B. M. Jones. diag Elec W 118:964 S 19 '42

Saving material in factory substation. il Elec W 116:2064 D 27 '41

Transformer cart has novel features. il diag Elec W 117:1548 My 2 '42

Washer designed for transformer mounts. il diag Elec W 117:92 Ja 10 '42

Moving

Eight-ton transformers sledded on ice. il Elec W 117:1363 Ap 18 '42

Noise

Causes and characteristics of transformer noise. J. Swaffield. diags Inst E E J 89 pt 1:212-24 My '42

Things you ought to know about transformer noise. H. Fahnoe. il Power Pl Eng 46:60-2 Je '42

Painting

Flo-coating saves refinishing time; transformer tanks and their radiators. G. C. Pugh. Elec W 117:1688+ My 16 '42

Parallel operation

Excess transformers used by paralleling. B. H. McCoin. il diag Elec W 118:466 Ag 8 '42

Paralleling unmatched transformers. diag Elec W 117:1834 My 30 '42

Protection

Compressed air used for insulation. diag Elec W 117:111 Ja 10 '42

Coordinated fusing plus spill gaps give service continuity. C. N. Teed and J. F. Servis. il diag Elec West 88:37-9 Mr '42; Discussion. 88:99 Je '42

Emergency overloads for oil-insulated transformers. F. J. Vogel and T. K. Sloat. Elec Eng 61:Trans 669:73 S '42

Fusing practice reported by Pennsylvania utilities. D. S. Roush. Elec W 118:1265-7 O 17 '42

High-voltage fusing of transformer banks. H. H. Marsh, jr. and G. B. Dodds. diag Elec Eng 61:Trans 533-5 Jl '42

Interim report on guides for overloading transformers and voltage regulators. Elec Eng 61:Trans 692-4 S '42; Discussion. M. S. Oldacre. Edison Elec Inst Bul 10:382-4 O '42

Loading curve for OISC transformers; chart based on temperature data of the U.S. Weather bureau. L. A. Terven. Elec W 118:968 S 19 '42

Protection problems. W. A. Mears. diags Electrician 129:305-6, 423-8 S 18, O 16 '42

Put mechanical relays on vault transformers. diag Elec W 117:668 F 21 '42

Relays set for fused banks. V. D. Hollis. Elec W 118:1148 O 3 '42

Slide rule yields primary fuse sizes. J. B. Hodtum. il Elec W 118:1482+ O 31 '42

Spill-gaps save fuse replacement labor. il Elec W 117:1865-6 My 30 '42

Transformer insulation; electrical and mechanical characteristics for oil immersion. C. H. Pike. bibliog il Elec R (Lond) 131:141-4 Jl 31 '42

Transformer protection timed for secondary faults. B. O. Watkins. Elec W 116:1882-4 D 13 '41

Unit protection for indoor transformers. diag Elec W 117:1034 Mr 21 '42

Water spray system cools transformers. il diag Elec W 117:1206 Ap 4 '42

Rating

Packaged units boost transformer ratings. G. W. Clothier. il diag Elec W 118:1113-14 O 3 '42

Power banks rated for seasonal limits. Elec W 117:1849 My 30 '42

Transformer operating guide to feasible war loadings. H. W. Hartzell. Elec W 117:2222-4 Je 27 '42

Repair

CO_2 displacement of air aids in welding transformer. W. Fitzstephens. diag Elec W 117:670 F 21 '42

Reclamation and maintenance of electrical equipment. Oil & Gas J 41:45+ Je 4 '42

Truck helps field transformer repair. S. J. Sickel. il Elec W 118:1264-5 O 17 '42

Wringer removes cleaning oil. Elec W 118:1303 O 17 '42

Standards

Current- and potential-transformer standardization. bibliog Elec Eng 61:Trans 698-706 S '42

Tables, calculations, etc.

Capacitor-transformers. S. Silbermann. diags Engineer 173:51-2, 70-1, 90-2 Ja 16-30 '42

Current-transformer performance based on admittance-vector locus. A. C. Schwager. bibliog diags Elec Eng 61:Trans 26-30 Ja '42

ELECTRIC transformers—Tables, calculations, etc—*Continued*

Determine transformer load from customer records. J. Wallis and P. Shelley. Elec W 116:1872-4+ D 13 '41

Efficiency chart for transformers. J. E. Hobson and R. L. Witzke. Elec W 118:640 Ag 22 '42

How to fit distribution transformers to their load; chart and tables. Elec W 118:788 S 5 '42

Regulation chart for transformers. J. E. Hobson and R. L. Witzke. Elec W 117:1364 Ap 18 '42

Safe transformer overloads readily calculable. R. O. Loomis. Elec W 117:1332-4 Ap 18 '42

Transient characteristics of current transformers during faults. C. Concordia, C. N. Weygandt and H. S. Shott. bibliog Elec Eng 61:Trans 280-5 My '42

Tap changing

Control of voltage regulators. diag Engineer 173:491-2 Je 12 '42; Same cond. Elec R (Lond) 131:43-5 Jl 10 '42

High-voltage transformer on-load tap changing equipment. il diag Engineer 173:331-2 Ap 17 '42

Improvements in preventive-coil control for a-c locomotives with particular reference to resistor transition. P. H. Hatch and H. S. Ogden. il diags Elec Eng 61:Trans 727-32 O '42

Metropolitan-Vickers high-voltage transformer tap-changing gear. il diag Engineering 153:427-8, 430 My 29 '42; Electrician 128: 365-6 Ap 17 '42; Elec R (Lond) 130:571-2 My 1 '42

Transformer uses two load ratio adjusters; autotransformer built for the University of California cyclotron. E. F. Christensen. il diag Elec W 117:2077 Je 13 '42

Temperature

Application of apparatus and conductors under various ambient-temperature conditions. R. E. Hellmund and P. H. McAuley. Elec Eng 61:Trans 553-8 Ag '42

Emergency overloading of power transformers; abstract. V. M. Montsinger and P. M. Ketchum. Pulp & Pa of Can 43:725+ Ag '42

Emergency overloads for oil-insulated transformers. F. J. Vogel and T. K. Sloat. Elec Eng 61:Trans 669-73 S '42

Hot-spot winding temperatures in self-cooled oil-insulated transformers. F. J. Vogel and P. Narbutovskih. Elec Eng 61:Trans 133-6 Mr '42

Impedance losses; effect of temperature variation in transformers. M. Nicholson-Steng. Elec R (Lond) 129:671-3 D 12 '41

Interim report on guides for overloading transformers and voltage regulators. Elec Eng 61:Trans 692-4 S '42; Discussion. M. S. Oldacre. Edison Elec Inst Bul 10:382-4 O '42

Production temperature-rise tests on transformers. H. S. Holbrook. Inst E E J 88 pt 2:245-9 Je '41; Discussion. 88 pt 2:590-2 D '41

Safe transformer overloads readily calculable. R. O. Loomis. Elec W 117:1332-4 Ap 18 '42

Transformer operating guide to feasible war loadings. H. W. Hartzell. Elec W 117: 2222-4 Je 27 '42

Testing

Current transformer characteristics for relay operation. C. E. Lamphier. diag Elec W 117:518 F 7 '42

Current transformer errors. G. W. Stubbings. diags Electrician 128:189-90 Mr 6 '42

Current-transformer errors; measurement by an exciting-current method. G. F. Freeman. diag Elec R (Lond) 131:41-2 Jl 10 '42

Economies result from tests of constant-current transformers; street-lighting system; Idaho power company. J. F. Emery. diags Elec W 117:809-10 Mr 7 '42

How to determine a transformer ratio. S. H. Coleman. diag Power Pl Eng 46:90 Ap '42

Instrument transformers; new insulation level requirements of apparatus and how they have been met. W. K. Dickinson. il Gen Elec R 45:517-20 S '42

Nitrogen locates leaks in underground. il Elec W 118:1311 O 17 '42

System for finding a series circuit fault. diags Elec W 117:1694 My 16 '42

Transformer polarity for instruments. P. MacGahan. diags Elec W 118:1461-2 O 31 '42

Transformer tests safeguarded. il diag Elec W 117:1863 My 30 '42

Voltage transformer errors. G. W. Stubbings. diag Electrician 129:57-8 Jl 17 '42

Windings

Current transformers; short-circuit capacity of the wound type. H. E. Forrest. il Elec R (Lond) 130:335-7 Mr 13 '42

Hot-spot winding temperatures in self-cooled oil-insulated transformers. F. J. Vogel and P. Narbutovskih. Elec Eng 61:Trans 133-6 Mr '42

How to make a transformer welder. L. Bradley. diags Power Pl Eng 45:88-9+ D '41

Surge propagation; penetration of pressure surges in transformer windings. T. F. Wall. diags Engineering 153:401-3 My 22 '42

ELECTRIC transformers, Portable

Hackbridge 132-kv mobile transformer. il Engineering 153:127 F 13 '42; Engineer 173:128 F 6 '42

Minnie ministers to many emergencies; portable distribution transformer rig. il Elec W 117:1679 My 16 '42

Mobile transformer; 132 kV unit for Central electricity board. il Electrician 128:85 F 6 '42

ELECTRIC transient phenomena

Analysis of systems with known transmission-frequency characteristics by Fourier integrals. W. L. Sullivan. bibliog Elec Eng 61:248-56 My '42

Analysis, synthesis, and evaluation of the transient response of television apparatus. A. V. Bedford and G. L. Fredendall. bibliog diags Inst Radio Eng Proc 30:440-57 O '42

Damper circuits and rotor leakage in the transient performance of saturated synchronous machines. R. Rüdenberg. diags Franklin Inst J 234:39-61 Jl '42

How lightning and surges can be rendered innocuous by two sets of arresters working in tune. F. W. Richart. il diag Coal Age 47: 51, 54-5 My '42

Judging an amplifier by means of the transient characteristic. J. Haantjes. diags Electronics 15:80+ Mr '42

New instrument for analyzing electric transients. N. Rohats. il diag Gen Elec R 45: 121-2 F '42; Abstract. Electronics 15:78+ My '42

New instrument for recording transient phenomena; magnetic-tape recording. S. J. Begun. il diags Elec Eng 61:Trans 175-7 Ap '42

Oscillograph adapted for retracing improves records. R. W. Ahlquist. il diag Elec W 117:100 Ja 10 '42

Practical calculation of circuit transient recovery voltages. J. A. Adams and others. bibliog diags Elec Eng 61:Trans 771-9 N '42

Resistance-welding transients. E. E. Kimberley. Elec Eng 61:Trans 94-5 F '42

Saturated synchronous machines under transient conditions in the pole axis. R. Rüdenberg. bibliog diags Elec Eng 61:Trans 297-306 Je '42

Surge characteristics of tower and tower-footing impedances. R. Davis and J. E. M. Johnston. il diags Inst E E J 88 pt 2:453-65 O '41; Discussion. 89 pt 2:168 Ap '42

Surge propagation. T. F. Wall. diags Engineering 153:141-3, 181-2, 201-3, 261-3, 301-2, 341-2, 401-3, 461-3, 483-4; 154:121-3, 154-6, 281-3, 321-3, 361-2 F 20, Mr 6-13, Ap 3, 17, My 1, 22, Je 12-19, Ag 14-21, O 9, 23, N 6 '42

Transient analyzer checks breakers and bus protection. J. H. Neher and R. J. Woodrow. il diag Elec W 116:1885-6 D 13 '41

ELECTRIC transient phenomena—*Continued*

Transient characteristics of current transformers during faults. C. Concordia, C. N. Weygandt and H. S. Shott. bibliog Elec Eng 61:Trans 280-5 My '42

Transient overspeeding of induction motors. R. W. Ager. Elec Eng 60:Trans 1030-2 D '41

Transient peak voltmeter. J. E. Hancock and B. R. Shepard. il diags Gen Elec R 45:331-3 Je '42; Abstract. Electronics 15:104+ O '42

Transient recovery-voltage characteristics of electric-power systems. H. P. St Clair and J. A. Adams. Elec Eng 61:Trans 666-9 S '42

Transient recovery voltages and circuit-breaker performance. R. C. Van Sickle. bibliog il diags Elec Eng 61:Trans 804-12 N '42

Traveling waves on transmission lines. E. Weber. bibliog Elec Eng 61:302-9 Je '42

See also

Electric protective apparatus

Lightning

ELECTRIC transmission

Coordination of distribution and power supply system voltages. C. E. Arvidson. Edison Elec Inst Bul 10:295-7 Ag '42; Same. Elec W 118:769-71 S 5 '42

Entering the seventh decade of electric power; developments in electrical transmission. C. E. Neil. Edison Elec Inst Bul 10:327-9 S '42

Physics of a transmission line. W. M. Thornton. bibliog Inst E E J 88 pt 2:561-7 D '41

Power supply to distribution substations in wartime. H. P. St Clair. diags Elec Eng 61:Trans 112-17 Mr '42; Abstract. il Power Pl Eng 46:69-71 My '42

Saves 5,000 kw. by voltage increase; Kerr-Anaconda line. Elec W 118:164 Jl 11 '42

Transmission of power in compressed gas atmospheres; library research. H. M. Hobart. diags Franklin Inst J 234:251-73, 331-54 S-O '42

See also

Electric cables

Electric distribution

Electric lines

Voltage regulation

Tables, calculations, etc.

Analysis of systems with known transmission-frequency characteristics by Fourier integrals. W. L. Sullivan. bibliog Elec Eng 61:248-56 My '42

Analysis of the application of high-speed reclosing breakers to transmission systems. S. B. Crary, L. F. Kennedy and C. A. Woodrow. bibliog diags Gen Elec R 45:173-85 Mr '42; Same. Elec Eng 61:Trans 339-48 Je '42

Estimating charts for 60-cycle line design. G. D. McCann. Elec W 117:643-5 F 21 '42

Long-distance power transmission by alternating current. E. Friedländer and C. J. O. Garrard. diags Engineering 153:1-3, 21-3, 41-3 Ja 2-16 '42; Discussion. A. M. Taylor. 153:194-5 Mr 6 '42

Resonance problems; examples of their practical bearing. T. F. Wall. diags Elec R (Lond) 130:686-8 My 29 '42

Semi-graphical method of determining the power limits of an interconnector. H. Rissik. diags Inst E E J 88 pt 2:568-88 bibliog(p583-4) D '41; Discussion. 89 pt 2:373-5 Ag '42

Transmission-line equations. V. J. Cissna. diag Elec Eng 61:587 N '42

ELECTRIC trucks

Electric vehicles. Automobile Eng 32:204-5 My '42

ELECTRIC trucks, Industrial

Clark's new electric truck. il Pulp & Pa of Can 43:868 O '42

Elwell-Parker center control truck. il Blast F & Steel Pl 30:916 Ag '42

Handling materials. il Elec R (Lond) 130:456-7 Ap 10 '42

Handling system; uses shovel-scoop trucks and pallets moved by fork truck; Harbison-Walker refractories co. il Steel 109:76+ D 8 '41

Industrial trucks. Mech Handling 29:143-4+ Ag; 174-5 S '42

Maintaining battery-powered industrial trucks. F. L. Sahlmann. il diag Steel 111:80-2 S 28 '42

Materials handling with industrial trucks. W. S. McCann. il Paper Ind 24:152-5 My '42

More work done with less fatigue using industrial trucks; Harbison-Walker refractories co. il Brick & Clay Rec 100:36+ Je '42

Ransomes, Sims & Jefferies elevating truck. il Mech Handling 29:191 O '42

Remote-control door operators speed handling between plants. il diag Steel 110:76, 78 Je 22 '42

Safe electric trucks; explosion-prevention. il Safety Eng 83:31-2 Je '42

Southern tobacco plant adopts mechanical transport. il Manuf Rec 110:38+ D '41

Speeding machine tool production; skid-lift-truck system at Kearney & Trecker's. flow chart il Iron Age 148:59-62 N 20 '41

Trucks and tractors for hazardous locations. il Nat Safety N 45:58+ My '42

Power

Industrial trucks; effect of floor conditions on power consumption and tires. C. S. Schroeder. Mech Eng 64:588+ Ag '42; Abstract. Engineering 154:285 O 9 '42

Testing

Industrial trucks; effect of floor conditions on power consumption and tires. C. S. Schroeder. Mech Eng 64:588+ Ag '42

Tiering trucks

Handling refractories with fork trucks and pallets cuts costs, speeds masonry operations. il Steel 111:84+ Jl 20 '42

ELECTRIC units

Absolute determination of the ampere, using helical and spiral coils. R. W. Curtis, R. L. Driscoll and C. L. Critchfield. bibliog diag J Research Nat Bur Stand 28:133-57 F '42

Absolute determination of the ohm. H. L. Curtis. Franklin Inst J 233:485-6 My '42

Giorgi M.K.S. system; translated from the Portuguese by the I.E.C. H. A. Ferreira. Elec R (Lond) 131:171-3 Ag 7 '42

ELECTRIC utilities

San Diego receives the Charles A. Coffin award; other awards. Elec W 117:2071 Je 13 '42

See also

Central Valley project, California

Edison electric institute

Electric industries

Electric lines

Electric plants (central stations)

Electric service, Rural

United gas improvement company

Waterworks—Combination with electric plants

Accidents

Theory of probability applied to accidents. D. C. Stewart. Edison Elec Inst Bul 10:257-60 Jl '42

Utility accident rate decreases. il Elec W News ed 118:856 S 12 '42

See also

Electricity, Injuries from

Accounting

Accounting procedure issue in N.Y. case. Elec W News ed 118:536 Ag 15 '42

Accuracy and flexibility with tailor-made indexes. C. A. Mees. Eng N 128:688, 690, 692 Ap 23 '42

Current accounting problems. G. H. Bourne. Edison Elec Inst Bul 10:237-8 Je '42

FPC files brief on Hartford test case; to determine commission's jurisdiction over accounting practices. Elec W News ed 118:851 S 12 '42

ELECTRIC utilities—Accounting—*Continued*

FPC has authority to exclude disapproved cost items from accounts. Pub Util 30:323-4 Ag 27 '42

In the matter of Alabama power company. W. K. Pierpont. J Account 73:380-2 Ap '42

Maintenance and its effect on depreciation reserves. L. V. Smoot. il Edison Elec Inst Bul 9:447-50 N '41

Meeting of gas and electric industry accountants on war emergency problems and procedures. Edison Elec Inst Bul 10:201+ My '42

Procedure of measuring obsolescence in machinery and plants. K. J. Affanasiev. bibliog Edison Elec Inst Bul 10:345-9 S '42

Streamlining reports. J. S. Phillips. Edison Elec Inst Bul 10:195-6 My '42

Advertising

Appliance use aided by folders. Elec W 117:2112 Je 13 '42

Better copy contest awards announced at PUAA convention. Edison Elec Inst Bul 10:281+ Jl '42

Do they read it? bill inserts; Connecticut light & power company. C. J. Allen. il Elec W 116:1890-1 D 13 '41

Food conservation aim of New Orleans ads. il Elec W 117:1058-9 Mr 21 '42

Getting the best out of a small budget; advertising, public relations. C. J. Allen. Edison Elec Inst Bul 10:289-92 Ag '42

Hughes award goes to Pacific gas and electric co.; leadership in range campaign basis for award. il Elec West 89:48-9 Jl '42

Informative ads win public understanding. il Elec W 117:2264 Je 27 '42

Pacific Gas and Electric scores with quiz contest; new type of institutional advertising campaign tells utility's story to children and parents. il Elec West 89:46-7 Jl '42

Quiz tells electreconomy. il Elec West 89:52-3 Ag '42

Utility advertising in war time. D. M. DeBard. Edison Elec Inst Bul 10:269-72 Jl '42

Utility tells story of electric bill. il Elec W 117:1704 My 16 '42

War and utility advertising. H. S. Metcalfe. Edison Elec Inst Bul 10:129-30+ Ap '42

Wartime promotion. J. Lightbody. Elec West 88:65 Je '42

What advertising policy for 1942? Elec W 117:1054+ Mr 21 '42

See also

Electric apparatus industry—Advertising

Appliance selling

Commercial and industrial loads offer new opportunities. C. T. Bakeman. il Elec W 117:814-15 Mr 7 '42

Commercial cooking sold to stay sold; Idaho Power sales plan. O. C. Mayer. il Elec W 116:1571-2+ N 15 '41

Georgia Power sales follow new trend. C. A. Collier. Elec W 117:856+ Mr 7 '42

How light can help. C. T. Bakeman. il Elec West 88:68-70 Je '42

Lighting sold in tailor-made package; Kansas gas & electric company. B. Barnabas. il Elec W 117:1390+ Ap 18 '42

Range-water heater combination reduces distribution demand. W. S. Fleming. Elec W 116:1887-8+ D 13 '41

Sell and repair appliances from trucks house-to-house; Kansas City power & light company. P. K. Berry. il Elec W 117:2064-5 Je 13 '42

Buildings

Adequate light for efficient load dispatching; windowless structure housing the load dispatchers of the Los Angeles bureau of power and light. L. A. Gates. il plan Elec W 118:451-3 Ag 8 '42

Air conditioning added; Florida power and light company building. il diag Dom Eng 159:55-6+ Ap '42

Designed for modern load dispatching; new load dispatchers' headquarters of the Los Angeles Bureau of power & light. il Elec West 88:36-8 My '42

Double duct air conditioning system meets individual room requirements; Detroit Edison co. general offices building. J. N. Livermore. il diags Heating-Piping 14:91-5 F '42

Modern front for utility offices; colored fluorescent light and architectural glass; Indiana service corporation. il Elec W 116:1748 N 29 '41

Contracts

See also

Street lighting—Contracts

Costs

Expenses, 1941. Elec W 117:280-1 Ja 24 '42

Public utility construction cost index, 1915-1941. Eng N 128:676 Ap 23 '42

Relation of large scale production to certain costs of electric utilities in the United States; determination of an optimum size. H. F. Jones. J Land & Pub Util Econ 18:36-46 F '42; Abstract. Pub Util 29:700-2 My 21 '42

Customer relations

Conservation keynotes Chicago service sales policy. il Elec W 118:1100-1 O 3 '42

Holding customer good will under emergency conditions. E. Vennard. Edison Elec Inst Bul 10:153-6 Ap '42

Mutual understanding basic in good customer relations; Public service co. of Oklahoma employees' weekly meetings; customer service program; customer interviews. R. K. Lane. il Elec W 117:1342-4 Ap 18 '42

New job for sales staff. il Elec West 88:63-5 Je '42

Old-business department; New England gas & electric company; appliance surveys, repair service, etc. il Elec W 117:1507-8 My 2 '42

Salvage of lighting load from blackout; morale of public strengthened by Pacific gas & electric company instructions to customers. il Elec W 117:1351 Ap 18 '42

Sauce for the goose. C. A. Collier. Edison Elec Inst Bul 10:223-7 Je '42

They sell the company by selling the service; Arkansas Power & Light sends out customer service representatives and home service girls to carry the company's story. il Elec W 118:78-9 Jl 11 '42

Victory campaign covers service and sentiment; Washington water power company. il Elec W 118:449-51 Ag 8 '42

See also

Electric utilities—Public relations

Development work

Idaho starch industry utility-initiated. il Elec W 118:330 Jl 25 '42

Directories

Directory of electric utilities in United States, 1941, and index to electric statistics. 972p $2 Federal power commission, Washington, D.C. '42

Employees

Appliance service training in Georgia. H. F. Woodall. Elec W 116:1914+ D 13 '41

Conserving man power by effective health education. J. J. Brandabur. Edison Elec Inst Bul 10:59-62 F '42

Design for building good will; Nebraska power company. J. E. Davidson. Edison Elec Inst Bul 10:42-4 F '42

Development officers; training scheme for men in forces. G. A. T. Burdett. Elec R (Lond) 131:247-8 Ag 21 '42

Educational program for industrial fire prevention protection. J. A. McGuckin. Edison Elec Inst Bul 10:91-2 Mr '42

Eighteen receive Edison electric institute medals. M. B. Woods. il Edison Elec Inst Bul 10:63-9 F '42

Employee and good will. E. L. Bayles. Edison Elec Inst Bul 9:441-3 N '41

Frequency and duration of disabilities causing absence from work among the employees of a public utility, 1938-41; Boston Edison company. W. M. Gafafer. bibliog Pub Health Rep 57:625-7 Ap 24 '42

ELECTRIC utilities—Employees—*Continued*

Gas and electric utilities and the wage and hour law. B. Snyder. Am Gas Assn Proc 1941:143-51

Highlights of Detroit Edison's air conditioning health survey. H. S. Walker. il Heating-Piping 14:677-8 N '42

Home service training is a parade; Washington water power co. il Elec West 88:44 Ja '42

How electric utilities are solving operating problems arising out of the war; how problems of depleted personnel are being met. il Elec W 117:1871-3 My 30 '42

Industrial health. C. O. Sappington. il Edison Elec Inst Bul 10:88-90+ Mr '42

Meter readers effect savings, make tests. K. M. Norcross. Elec W 117:2077-8 Je 13 '42

Mutual understanding basic in good customer relations; Public service co. of Oklahoma employees' weekly meetings; customer service program; customer interviews. R. K. Lane. il Elec W 117:1342-4 Ap 18 '42

New utility union; independent organizations in 12 power companies join forces. Business Week p54 Ag 1 '42

Occupational deferments for utility employees. G. E. Doying, jr. Elec W 117:1512 My 2 '42

Personnel problem of the electric industry under war conditions. T. P. Walker. Edison Elec Inst Bul 10:235-6 Je '42

Public relations of private enterprise; employee training in personal service vital factor in deciding ownership question. A. M. Cooper. Elec West 89:39-40 Ag '42

Rehearsal for disaster; air raid drill by occupants of Public service building, Portland, Ore. il Elec West 89:31-2 Jl '42

Scientific approach in selecting the right man for the job. M. S. Viteles. Edison Elec Inst Bul 10:264-8 Jl '42

Training in health; company physician prepares articles for employee publication; Consolidated Edison co. of N.Y. N. E. Eckelberry. il Nat Safety N 44:26-7 D '41

Training of engineers. H. W. Swann. Electrician 129:451-3 O 23 '42

Utility employees draft classifications. Elec W News ed 117:1989-90 Je 6 '42

Utility installs model health facilities; Commonwealth Edison company. il plan Elec W 117:651 F 21 '42

Utility labor unions organize national group. Elec W 118:1457 O 31 '42

Utility's new medical service department; Public service co. of Colorado. il Elec West 89:55 O '42

Why I like my job in the electrical industry; contest open to employees of members of Pacific Coast electrical assn. Elec West 88:60-1 Je '42

Women in the supply industry; commissioners urge greater use. Electrician 129:382 O 9 '42; Elec R (Lond) 131:471-2 O 9 '42

See also

Electric utilities—Salesmen

Equipment and supplies

Bicycles, motorcycles answer tire-gas rations; utilities adopt two-wheeled vehicles. il Elec W 117:1890 My 30 '42

Conservation of automotive equipment. J. Y. Ray. Edison Elec Inst Bul 10:361-2+ O '42

Conservation of critical materials used on overhead lines. H. J. Henderson. Edison Elec Inst Bul 10:48+ F '42

Don't throw away anything but dirt; salvage and repair program for utilities. L. Ragle. il Elec W 117:2053-4 Je 13 '42

Essential mileage saves tires, gas. Elec W 117:2058 Je 13 '42

First P-46 report forms set up par for future. Elec W 117:87 Ja 10 '42

How electric utilities are solving operating problems arising out of war; 142 actual cases gathered from practices of 60 operating systems. il diags Elec W 117:1829-74 My 30 '42

How shall surplus stocks be administered? G. E. Doying, jr. Elec W 118:620 Ag 22 '42

Identification tags made of plastic. B. Levy. il Elec W 117:1696 My 16 '42

Low-cost ladder attachment for truck. il diags Elec W 117:1372 Ap 18 '42

Machines must work for war or scrap! Rochester gas and electric corp. found 2150 tons of scrap by a thorough and systematic survey. E. B. Robinson. il Power 86:723-5 O '42

New WPB ruling on surplus utility materials. Elec W 118:457 Ag 8 '42

OPM issues amendments to priorities order P-46; maintenance and operating materials for utilities. Elec W 116:1727-8 N 29 '41

Outdated equipment salvaged for service. J. C. Henkle. il Elec W 117:514+ F 7 '42

P-46 change aids utility repair and maintenance. Elec W News ed 117:1095-6 Mr 28 '42

Priorities; facts regarding the procedures open to utilities and their suppliers for obtaining aid in getting materials. Elec W 117:63-70 Ja 10 '42

Salvage and reclamation operations of utilities in the war program; conference, St Louis, March 16; papers. H. E. Hodgson and others. Edison Elec Inst Bul 10:79-82+ Mr '42

Salvage mostly done with standard tools. R. N. Dowling. il Elec W 117:1500-2 My 2 '42

Special tool treats field holes in wood. H. N. Fox. diag Elec W 117:2092 Je 13 '42

Use labor to conserve material; Union electric company's surplus equipment department maintains catalog. Elec W 118:1479 O 31 '42

Utilities rid excess inventories by sales. Elec W 118:775 S 5 '42

Utility organizations pledged to save copper. Elec W News ed 116:1969 D 20 '41

Wartime substitutions and changes. L. M. Smith. Elec W 118:1269 O 17 '42

What are you doing to keep them rolling? automotive equipment maintenance. S. G. Page. Edison Elec Inst Bul 9:495-6 D '41

Finance

Alabama power company; recent refunding offers improved mortgage. Comm & Fin Chr 155:433 Ja 29 '42

Associated Electric hit by war. T. W. Fowler. Barron's 21:18 D 15 '41

Budget, 1941, 1942. Elec W 117:284-5 Ja 24 '42

Effect on electric utility companies of new federal tax provisions; suggested remedies. C. W. Kellogg. Edison Elec Inst Bul 10:285-8 Ag '42

Have utilities discounted the worst? O. Ely. Barron's 22:18 Ag 31 '42

Myth of excess profits in the electric utility field. E. R. Abrams. Comm & Fin Chr 155:1761+ My 7 '42

1941 power for defense, 1942 power for war; construction programs. il Elec West 88:44-61 F '42

Outlook for Commonwealth & Southern preferred. W. W. Amos. Barron's 22:9 Ag 24 '42

Power plant expansion in 1942 totals over billion. Elec W News ed 117:1737 My 23 '42

Present status of the utilities. C. W. Kellogg. Edison Elec Inst Bul 10:169-71+ My '42

Public utilities and federal income taxes. W. D. Gay. Pub Util 30:267-76 Ag 27 '42

Public utility depreciation practice. H. G. Guthmann. Harvard Business R 20 no 2:213-22 [Ja] '42

Revenue, 1941. Elec W 117:274-5 Ja 24 '42

Status of Minnesota Power & Light bonds. A. Jansen. Barron's 22:19 Je 15 '42

Supply statistics; commissioners' returns for 1939-1940. Elec R (Lond) 131:420 O 2 '42

ELECTRIC utilities—Finance—*Continued*

Virginia Public Service first 3¾s, 1972. Comm & Fin Chr 155:2379+ Je 25 '42

See also

Electric plants, Municipal—Finance

Electric utilities—Securities

Holding companies

also Associated gas and electric company; Consolidated Edison company of New York; Pennsylvania power and light company

Gas competition

After the truce; reorganisation of the gas industry. Elec R (Lond) 129:536-7 N 14 '41

Government ownership

Bone bill criticized as socializing power industry through war bond funds. Comm & Fin Chr 156:459 Ag 6 '42

Power politics; public ownership question in California. R. W. Jimerson. il Elec West 87:27-9 D '41

Way it happened; four fronts for distribution as well as generation of power. H. Corey. Pub Util 29:276-87 F 26 '42

See also

Electric utilities—Municipal ownership

Hydroelectric plants—Government ownership

Insurance requirements

Gas and electric utilities report on war risk insurance practices. R. Fleming. Am Gas Assn Mo 24:187-9 My '42; Same cond. Edison Elec Inst Bul 10:160-1+ Ap '42

Supply risks and insurances; third party and loss of profits hazards. G. D. Bond. Electrician 127:219-20 O 17 '41

Law

Court affirms SEC power over operating companies. Elec W 118:1105-6 O 3 '42

Egham lighting case. Elec R (Lond) 130:816 Je 26 '42; Same. Electrician 128:648-9 Je 26 '42

Recovery of undercharges for utility service. J. Simpson. Gas Age 88:37-9 D 18 '41

Management

Adopt bi-monthly meter reading plan; Consumers power company, Jackson, Mich. Elec W 118:816+ S 5 '42

Cooperation of utilities in serving defense loads. J. H. Coates. Edison Elec Inst Bul 9:491-4 D '41

How about electric utility staff organization? J. H. Bickley. Pub Util 30:69-81 Jl 16 '42

Midwest companies to adopt bi-monthly billing. Elec W News ed 118:1357 O 24 '42

Postcards save gas, tires on skips; use of return postcards in connection with skipped meter readings. S. M. Gould. il Elec W 118:1150+ O 3 '42

Quarterly meter reading with monthly billing. J. A. Williams. il Edison Elec Inst Bul 10:293-4 Ag '42

Some new problems in industrial sales. J. F. Gaskill. Edison Elec Inst Bul 9:485-9 D '41

To expedite conversion of small industry. Elec W 117:998-1002 Mr 21 '42

Utilities try bi-monthly, quarterly meter readings. Elec W News ed 118:537 Ag 15 '42

See also

Electric utilities—Employees

Meter reading

Municipal ownership

Frankfort-Tri-City disagree on price. Elec W News ed 118:1202 O 10 '42

Mayor LaGuardia asks New York to buy Staten Island Edison. Elec W 118:778 S 5 '42

Power politics; public ownership question in California. R. W. Jimerson. il Elec West 87:27-9 D '41

Those public ownership election campaigns. A. M. Cooper. Pub Util 29:216-21 F 12 '42

Western city revamps its municipal utilities, Miami, Okla. O. D. Baker. Pub Util 29:222-7 F 12 '42

See also

Electric plants, Municipal

Officials

Who's who in the public utilities industry. L. Stotz, ed. 205p $3 Louis Stotz, box 7274, Philadelphia '42

Public relations

Appliances in schools build future demand; Wisconsin power & light company installs equipment for home economics classes. J. E. Canfield. il Elec W 117:1183 Ap 4 '42

Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:63-4 [S] '42

Design for building good will; Nebraska power company. J. E. Davidson. Edison Elec Inst Bul 10:42-4 F '42

Evaluation of service in customers' language; lecture and exhibits; Central Hudson gas & electric company program to drive home great value of electric service in the home. D. W. Rosebrugh. il Elec W 117:816-18 Mr 7 '42

Getting the best out of a small budget; advertising, public relations. C. J. Allen. Edison Elec Inst Bul 10:289-92 Ag '42

Public relations of private enterprise; employee training in personal service vital factor in deciding ownership question. A. M. Cooper. Elec West 89:39-40 Ag '42

Radio communication

Public utility emergency radio system; Montana power company gas and electric departments. W. H. Blankmeyer. il Electronics 15:65+ My '42

Wichita reports on radio crew direction. H. E. Margrave. il Elec W 117:330 Ja 24 '42

Rates

See Electric rates

Records

Appliance service forms simplified. H. F. Woodall. Elec W 117:1011 Mr 21 '42

Determine transformer load from customer records. J. Wallis and P. Shelley. Elec W 116:1872-4+ D 13 '41

Oscillogram scale printed on form. E. J. Mommo. il Elec W 117:833 Mr 7 '42

Storage battery maintenance form. V. D. Hollis. Elec W 118:1284+ O 17 '42

Systematized surveys reveal network load conditions; Oklahoma gas & electric company. R. W. Coursey. diags Elec W 116:1712-14+ N 29 '41

Use labor to conserve material; Union electric company's surplus equipment department maintains catalog. Elec W 118:1479 O 31 '42

Regulation

FPC files brief on Hartford test case; to determine commission's jurisdiction over accounting practices. Elec W News ed 118:851 S 12 '42

G.O. 64-A is now G.O. 95; résumé of changes in Railroad commission ruling governing line construction in California. S. S. Bloom. Elec West 89:40-4 Jl '42

See also

Holding companies

Public utilities—Regulation

Public utilities commissions

Securities and exchange commission

Restaurant operation

Community feeding at Finchley; operation and costs of civic restaurants. il diag Electrician 129:349-51 O 2 '42

Safety measures

Accident prevention pays dividends. B. F. Lentz. Elec West 88:82-3 Je '42

How to conserve, repair and store rubber safety aids. C. A. Coutts. Elec W 118:960 S 19 '42

National safety council, Public utilities section, meeting, Chicago. Elec W News ed 118:1519 N 7 '42

ELECTRIC utilities—Safety measures—*Cont.*

Priorities on safety equipment as they concern the electric utilities. T. R. Claffy and others. Edison Elec Inst Bul 10:96-8 Mr '42

Quiz programs enliven safety meetings; Pacific gas & electric company. E. C. Hunt. il Elec W 116:2045+ D 27 '41

Safe practices key to combating warm weather electrical hazards. W. R. Smith and D. C. Stewart. Edison Elec Inst Bul 10:179-80 My '42

Safety brought efficiency; electric utility in Port-au-Prince. il Nat Safety N 44:24-5 D '41

Safety shows feature quiz contest, win wide attention; Pacific gas and electric co. il Elec West 87:34-5 D '41

Utility safety program which brought results. H. O. Sprinkle. Edison Elec Inst Bul 10:298-300 Ag '42; Same cond. Nat Safety N 46:10-11, 58+ Ag '42

See also

Linemen's equipment

Salesmen

Merge sales divisions to hold specialists; Kansas City power & light company. Elec W 116:1746 N 29 '41

Modern kitchen bureau sales training films prove valuable to utilities. Edison Elec Inst Bul 9:467-8 N '41

New job for sales staff. il Elec West 88:63-5 Je '42

Power salesmen; their part in aiding industries' conversion to munition making. B. T. Bonnot. Elec W 117:996-7 Mr 21 '42

Some new problems in industrial sales. J. F. Gaskill. Edison Elec Inst Bul 9:485-9 D '41

Trial by jury for sales heads; Washington water power co. sales staff meeting. Elec West 88:52-3 My '42

Utility now sells appliance service. Elec W 118:658 Ag 22 '42

Utility retailors sales plan. il Elec West 89:73-4 O '42

Victory campaign covers service and sentiment; Washington water power company. il Elec W 118:449-51 Ag 8 '42

Securities

Application of the bond tests adopted by the New York state bankers association. Comm & Fin Chr 155:751 F 19 '42

Assets behind Electric Power & Light preferred stocks. O. Ely. Barron's 22:5 S 21 '42

Financial statistics, 1941. Elec W 117:282-3 Ja 24 '42

4.34% yield on Birmingham Electric first 4½s, 1968. Barron's 22:15-16 O 12 '42

Impact of the war upon public utility finance. F. J. McDiarmid. Pub Util 29:663-74 My 21 '42

Kentucky Utilities 4s, 1970. Comm & Fin Chr 155:103 Ja 8 '42

New financing program for Connecticut utility. il Elec W 116:1579 N 15 '41

Present value as a factor in the selection of a refunding plan; case study of a regulated hydroelectric utility with a single bond issue outstanding. E. S. Loane and A. C. Thomas. J Account 74:230-41 S '42

Price trends of electric utility securities; graph. Published in weekly numbers of Electrical world

Stock dividend credit adopted. Elec W 118:1282 O 17 '42

Those underpriced utility stocks. F. J. McDiarmid. Pub Util 29:579-608 My 7 '42

Utility bond market. W. F. Patton. Pub Util 28:675-81 N 20 '41

Utility earning power termed a war essential; Hartford Electric Light's earnings. Elec W News ed 117:572 F 14 '42

Utility earnings will be lower; position of stocks. Mag of Wall St 69:436-7 Ja 24 '42

Service

Appliance exchange a boon to customers; Nebraska power company. Elec W 118:498 Ag 8 '42

Appliance service forms simplified. H. F. Woodall. Elec W 117:1011 Mr 21 '42

Assisting the customer to make maximum effective use of his existing electrical facilities. E. A. Brand. Edison Elec Inst Bul 10:131-3 Ap '42

Conservation theme of appliance repair plan; New Orleans Public Service program for dealers. il Elec W 117:1347-8 Ap 18 '42

Conserves mileage and manpower; new practices with reference to meter disconnects. Elec W 117:2266 Je 27 '42

Duquesne Light launches appliance service plan. G. W. Ousler. il Elec W 118:767-9 S 5 '42

Hartford company adopts service economy theme. il Elec W 116:2052 D 27 '41

Helping the dealers to help themselves. S. P. Vecker. Edison Elec Inst Bul 10:124-6 Ap '42

Home service at work on the home grounds. E. Davison. Edison Elec Inst Bul 10:127-8 Ap '42

Home service keyed to emergency; Puget Sound co. advisors present nutrition and lighting counsel. il Elec West 88:49 Ja '42

How utilities are aiding farmers to secure maximum food production. Edison Elec Inst Bul 10:99-102+ Mr '42

Kitchen planning service as good-will builder; Connecticut light & power company. H. C. Johnson. il Elec W 116:1722-3+ N 29 '41

Lighting program now service program; Ohio public service company. R. W. Butts. il Elec W 117:803-5 Mr 7 '42

Little planning will save tires; service policies; Indianapolis power & light company. Elec W 118:496+ Ag 8 '42

Niagara Hudson revises customer service plans. Elec W News ed 117:6 Ja 3 '42

One-shot treatment speeds office contacts. il Elec W 117:1179 Ap 4 '42

Pacific gas and electric company repair service; cooperative program carried to electric dealers. il Elec West 88:74 Je '42

Pennsylvania Power plan aids small business in procuring defense business. N. F. Vidal. il Elec W 117:1003-5 Mr 21 '42

Quarterly meter reading plan; Connecticut light and power company. Elec W 118:1320-1 O 17 '42

Reconditioning appliances. il Elec R (Lond) 131:279 Ag 28 '42

Teams talk service to Omaha customers. Elec W 118:658 Ag 22 '42

Utilities pushing gas and rubber conservation; postcard meter reading and abolition of free service calls. Elec W News ed 118:206-7 Jl 18 '42

Zoning of customer service calls. Elec W 117:1868-9 My 30 '42

Service companies

Recent developments in service company regulations; decision of Securities and exchange commission in New England power service company case. W. F. Kennedy. J Land & Pub Util Econ 18:100-2 F '42

See also

American public power association

Shops

Maintenance plans for power units. J. Stobie. Elec West 88:85-8; Discussion. 88 Je '42

Nut runner for utility salvage shop. il Elec W 118:492 Ag 8 '42

Showrooms

Croydon's new showrooms. il Elec R (Lond) 129:607-8 N 28 '41; Electrician 127:303-4 N 28 '41

Size

Relation of large scale production to certain costs of electric utilities in the United States; determination of an optimum size. H. F. Jones. J Land & Pub Util Econ 18:36-46 F '42; Abstract. Pub Util 29:700-2 My 21 '42

Statistics

Annual statistical number. Elec W 117:257-89 Ja 24 '42

ELECTRIC utilities—Statistics—*Continued*

Elasticity of the residential demand for electricity. H. A. Cutler. J Land & Pub Util Econ 17:242-5 My '41; Discussion. 17:498-503 N '41

Electric light and power industry in 1941. Edison Elec Inst Bul 9:477-81 D '41

Experience of utilities in power shortage control. Elec W 117:483-5 F 7 '42

Final data on 1941 operations. Edison Elec Inst Bul 10:103-6 Mr '42

Power output soars from war impetus. Power Pl Eng 46:53+ F '42

Statistics of electric utilities in the United States, 1939; classes A and B privately owned companies. $2 U.S. Federal power commission, Washington '41

See also
Electric plants (central stations)—Statistics

Stores systems

Display board moves obsolete materials. il Elec W 118:289 Jl 25 '42

Private storerooms help line crews. il Elec W 117:1384+ Ap 18 '42

Taxation

Effect on electric utility companies of new federal tax provisions; suggested remedies. C. W. Kellogg. Edison Elec Inst Bul 10:285-8 Ag '42

1942 Revenue act; adverse effect of federal taxes on earnings of utility companies as compared with earnings of manufacturing enterprises. C. W. Kellogg. Edison Elec Inst Bul 10:181-2 My '42

Power to destroy; indiscriminate taxation of public utilities is unfair. E. R. Abrams. Pub Util 30:333-9 S 10 '42

Public utilities and federal income taxes. W. D. Gay. Pub Util 30:267-76 Ag 27 '42

Stock dividend credit adopted. Elec W 118:1282 O 17 '42

Utilities plead tax case before Senate committee. Elec W 118:621-2 Ag 22 '42

Utilities seek relief from higher taxes. Elec W News ed 117:1731 My 23 '42

Telephone

One-shot treatment speeds office contacts. il Elec W 117:1179 Ap 4 '42

Telephone rings lights off and on. diag Elec W 118:476 Ag 8 '42

See also
Electric utilities—Radio communication

Valuation

Accuracy and flexibility with tailor-made indexes. C. A. Mees. Eng N 128:688, 690, 692 Ap 23 '42

FPC fixes original cost of Niagara Power. Elec W 117:2232 Je 27 '42; Eng N 128:1031 Je 25 '42

FPC orders cut in property valuation; Jordan Dam power development of the Alabama power co. Eng N 128:591 Ap 16 '42

Procedure of measuring obsolescence in machinery and plants. K. J. Affanasiev. bibliog Edison Elec Inst Bul 10:345-9 S '42

Streamlining the utility valuation process during the emergency. C. A. Mees. Pub Util 29:609-22 My 7 '42

War problems

Air-raid damage. G. V. Harrap. il Elec R (Lond) 129:441-3 O 24 '41

As the nation goes to war; organized efficiency, electric industry's most valuable contribution. Edison Elec Inst Bul 9:473-5 D '41

Blackout practice and protection of power systems. il diags maps Power Pl Eng 46:53-76 N '42

Bomb damage; effects on power plant. J. N. Waite. Elec R (Lond) 131:365-6 S 18 '42

Bomb damage; examples of supply system incidents. il Elec R (Lond) 130:235-7 F 20 '42

Britain guards and rations her utility services. J. N. Waite. Pub Util 30:201-7 Ag 13 '42; Excerpts. Elec W 118:453 Ag 8 '42

British Columbia Electric ready. il Elec West 88:55 Je '42

Building and protecting power systems in wartime. F. M. Starr. il Power Pl Eng 46:77-80 My '42

Business of war. C. W. Kellogg. Edison Elec Inst Bul 10:357-8, 390 O '42

Chicago utility organized for air raids. il Eng N 129:438-9 S 24 '42

Curtailment of power in pending WPB order. Elec W News ed 117:1431 Ap 25 '42

Data facilitate L-94 execution; survey by Northwestern electric co; to determine percentage of war and civilian production of companies. il Elec W 118:496 Ag 8 '42

Defense measures for plant security. il Elec West 88:34-6 Ja '42

Development in wartime; Commissioners apply the brake. Elec R (Lond) 130:475-6 Ap 10 '42

Distribution systems in wartime. T. R. Tate. Elec Eng 61:445-6 Ag '42

Effect of air raids on British power systems. G. V. Harrap. il Elec Eng 61:231-41 My '42

Effective transformer barricade; Bonneville engineers design ventilated wood and sand barrier. il diags Elec West 89:63 O '42

Electric-power distribution systems in wartime; symposium. P. Sporn and others. diags Elec Eng 61:Trans 105-26 Mr '42; Abstract. il Power Pl Eng 46:68-73 My '42

Electric power generation in wartime. il map Power Pl Eng 46:62-7 My '42

Electric utilities and the war production program. W. H. Harrison. Edison Elec Inst Bul 10:217-18+ Je '42

Electrical man-power; directions to supply undertakings. Elec R (Lond) 130:249-50 F 20 '42

Federal power construction agencies ask power agencies to shift critical equipment. Elec W News ed 118:849 S 12 '42

Field experience with effective power rationing. C. A. Collier. charts Edison Elec Inst Bul 10:175-8 My '42

Great metropolitan utility company prepares for war; Consolidated Edison system. J. B. Walker. Pub Util 29:818-20 Je 18 '42

Has fuel economy come to stay? F. D. Parker. Electrician 129:357-9 O 2 '42

Holding customer good will under emergency conditions. E. Vennard. Edison Elec Inst Bul 10:153-6 Ap '42

Home front morale held important in England; as told to H. G. Dooley, by Caroline Haslett. Elec W News ed 117:3-4 Ja 3 '42

How British utility accountants met the blitz. E. N. Keller. Edison Elec Inst Bul 10:190-2 My '42

How electric utilities are solving operating problems arising out of the war; 142 actual cases gathered from practices of 60 operating systems. il diags Elec W 117:1829-74 My 30 '42

How shall surplus stocks be administered? G. E. Doying, jr. Elec W 118:620 Ag 22 '42

Idle electric generating capacity; put it to work in war production. Edison Elec Inst Bul 20:249-55+ Jl '42

Industry responsibilities during the war period. J. S. Bartlett. Elec W 117:1664-5 My 16 '42

Maintenance of steam power for war loads. il Elec W 118:1421-39 O 31 '42

Maintenance of the national life. C. W. Kellogg. Edison Elec Inst Bul 10:119-20+ Ap '42

Making capacity with a contract. Elec W 117:2096 Je 13 '42

Mobilizing kilowatts for war. J. A. Krug. il Elec Eng 61:126-31 Mr '42

National membership for operating company group; Council of electric operating companies organized to cooperate with government. Elec W 117:1019 Mr 21 '42

New construction to be of temporary character. Elec W 117:2072 Je 13 '42

New England utilities form coordination group. Elec W News ed 118:853 S 12 '42

ELECTRIC utilities—War problems—*Continued*

Our job in winning the war. H. P. Liversidge. Edison Elec Inst Bul 10:213-16+ Je '42

Overcoming raid damage. il Elec R (Lond) 129:495-8 N 7 '41; Same abr. Edison Elec Inst Bul 10:19-20 Ja '42

Pennsylvania Power plan aids small business in procuring defense business. N. F. Vidal. il Elec W 117:1003-5 Mr 21 '42

Personnel problem of the electric industry under war conditions. T. P. Walker. Edison Elec Inst Bul 10:235-6 Je '42

Ploughshares into swords; utility activities in expediting industrial conversion. Elec W 117:995-1002 Mr 21 '42

Power and the war effort; abstracts. L. Olds. Power Pl Eng 46:97-8 My '42; Eng N 128:590 Ap 16 '42

Power expansion program cut in WPB order. Elec W News ed 118:683-4 Ag 29 '42

Power in total war and total production. K. M. Robinson. Edison Elec Inst Bul 10:178 My '42

Power stations in wartime; countering the effects of air attack. G. V. Harrap. Elec R (Lond) 129:567-9 N 21 '41

President's address before annual meeting of the Edison electric institute. C. W. Kellogg. Edison Elec Inst Bul 10:209-12 Je '42

Priorities problems; case method. Elec W 118:760-1 S 5 '42 [cont weekly]

Protection of electric power facilities. T. R. Tate il Civil Eng 12:595-8 N '42

Protection of electric public utility systems against air raids; experiences of electric utilities in Great Britain. A. V. DeBeech. bibliog Edison Elec Inst Bul 10:183-9 My '42

Protective concealment of utility properties. K. Martin. il Elec W 118:756-8 S 5 '42

Regional integration; suggested plan. H. B. Sargent. Elec W 118:605-6 Ag 22 '42

Restoring supply; measures taken after air-raid damage. il Elec R (Lond) 129:527-31 N 14 '41

Safeguarding service; Commonwealth Edison company, Chicago. il Nat Safety N 46:10-11+ S '42

Salvage and reclamation operations of utilities in the war program; conference, St Louis, March 16; papers. H. E. Hodgson and others. Edison Elec Inst Bul 10:79-82+ Mr '42

Salvage of lighting load from blackout; morale of public strengthened by Pacific gas & electric company instructions to customers. il Elec W 117:1351 Ap 18 '42

Sauce for the goose. C. A. Collier. Edison Elec Inst Bul 10:223-7 Je '42

Serving civilian needs in the present emergency. S. P. Vecker. Edison Elec Inst Bul 10:310+ Ag '42

Short-cuts to service restoration after bombing; Shanghai experience. W. Hunter. diags Elec W 118:438-40 Ag '42

Utilities and the copper situation. C. W. Kellogg. Edison Elec Inst Bul 9:482-4 D '41

Utilities war-time transportation problems. J. G. Holtzclaw. Edison Elec Inst Bul 10:233-4+ Je '42

Utility operating problems during blackouts. F. M. Starr. Power Pl Eng 46:66-7 Ap '42

Utility operation in war time; abstract. D. M. De Bard. Nat Safety N 45:95-6 Ap '42

Utility prepares for emergencies; Cambridge electric light company. il Elec W 117:481-2 F 7 '42

Utility responsibilities in civilian defense; Philadelphia electric company. map Elec W 117:646-7 F 21 '42

War and utility advertising. H. S. Metcalfe. Edison Elec Inst Bul 10:129-30+ Ap '42

War economy effects on utility economy. Elec W 117:278-9 Ja 24 '42

War effects; abstract. C. W. Kellogg. Power Pl Eng 46:108 My '42

War experience of British utilities. Pub Util 29:171-8 Ja 29 '42

WPB asks utilities to share inventories. Elec W 117:1355-6 Ap 18 '42

WPB fixes capacity expansion for duration. Elec W 118:297 Jl 25 '42

WPB, OPA rulings clarified. Elec West 89:78-9 O '42

Wartime damage to power supply. H. S. Bennion. il Power Pl Eng 46:84-6 My '42

Wartime electric-system planning. R. G. Hooke and E. C. Plant. Elec Eng 61:192-6 Ap '42

Wartime operation, symposium; Northwest electric light and power association. Elec West 88:104-7 Je '42

Wartime substitutions and changes. L. M. Smith. Elec W 118:1269 O 17 '42

We're in the army now. R. E. Fisher. Edison Elec Inst Bul 10:117-18 Ap '42

Alaska

Hand of Ickes in Alaska. L. C. Mann. Pub Util 28:731-41 D 4 '41

China

Utility chances in China. H. Corey. Pub Util 29:135-41 Ja 29 '42

Great Britain

Britain guards and rations her utility services. J. N. Waite. Pub Util 30:201-7 Ag 13 '42

Development in wartime; Commissioners apply the brake. Elec R (Lond) 130:475-6 Ap 10 '42

Effect of air raids on British power systems. G. V. Harrap. il Elec Eng 61:231-41 My '42

Electric power results. Economist 142:438 Mr 28 '42

Home front morale held important in England; as told to H. G. Dooley, by Caroline Haslett. Elec W News ed 117:3-4 Ja 3 '42

How British utility accountants met the blitz. E. N. Keller. Edison Elec Inst Bul 10:190-2 My '42

Post-war planning; the Uthwatt committee and public utilities. Elec R (Lond) 131:373-4 S 18 '42

War experience of British utilities. Pub Util 29:171-8 Ja 29 '42

See also

Electric utilities—War problems

Electricity supply—Great Britain

Haiti

Safety brought efficiency; electric utility in Port-au-Prince. il Nat Safety N 44:24-5 D '41

New Zealand

Auckland power board; report covering a war-time year. Electrician 128:8 Ja 2 '42

Northwestern states

Committee reports; Northwest electric light and power association. il diag Elec West 88:79-107 Je '42

Northwest companies to merge resources for war. Elec W 117:85 Ja 10 '42

Northwest utility operating coordination; interconnected network meets dry-year emergency. L. B. Cowgill. Elec West 88:51-4 Ap '42

War brings new demands. S. P. MacFadden. Elec West 88:51-2 Je '42

Wartime mutual assistance program. Elec West 88:45-6 Ap '42

Pennsylvania

Pennsylvania utilities all out to win the war; meeting of Pennsylvania electric association. Elec W News ed 118:1017 S 26 '42

Puerto Rico

FWA takes over Puerto Rico electric producers. Eng N 129:69 Jl 9 '42

Government seizes two Puerto Rico utilities. Elec W News ed 118:9 Jl 4 '42

Quebec

Quebec moving toward acquisition of utilities. Elec W News ed 117:1597 My 9 '42

United States

As the nation goes to war; organized efficiency, electric industry's most valuable contribution. Edison Elec Inst Bul 9:473-5 D '41

ELECTRIC utilities—United States—*Continued*

In review; highlights of past year. S. B. Williams. Elec W 117:293-5 Ja 24 '42

Is the power industry keeping pace with demands of war? W. H. Harrison. Pub Util 30:44-6 Jl 2 '42

Johns-Manville advertisement of electric power industry written by L. Thomas. Pub Util 29:304-5 F 26 '42

Post-war outlook for electric utilities. E. R. Abrams. Comm & Fin Chr 156:1513+ O 29 '42

Power for defense; the utility view. J. C. Parker. Elec Eng 61:18-21 Ja '42

Power industry assures Nation of service; abstracts of addresses at meeting of Edison electric institute. Pub Util 30:48-50 Jl 2 '42

Power industry supports general defense. W. H. Hillyer. Barron's 22:8 Je 15 '42

Public utilities; electric power. Survey of Cur Business 22:38-9 F '42

Utilities must forget complacency. W. McClellan. Power Pl Eng 46:51 Jl '42

Utility earnings will be lower. Mag of Wall St 69:436-7 Ja 24 '42

See also

Electricity supply—United States

Foreign properties

Utility properties in the Orient. O. Ely. Pub Util 29:35-6 Ja 1 '42

Western states

Electrical West annual review number. il Elec West 88:41-81 F '42

ELECTRIC vehicles

See also

Electric trucks, Industrial

Trolley buses

ELECTRIC washing machines. See Washing machines, Electric

ELECTRIC water coolers

Electric water coolers. V. V. Elkins. il Refrig Eng 43:80-1+ F '42

ELECTRIC water heaters

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Some problems in the application of electric heating to residential and commercial premises. W. Gilchrist. Electrician 128:71-2 Ja 30 '42; Abstracts. Engineering 153:72 Ja 23 '42; Elec R (Lond) 130:78 Ja 16 '42; Discussion. 130:115-16 Ja 23 '42

South Bay consolidated water co., Bayport, L.I. uses electric heat with cast iron radiators to heat pumping station. il Heat & Ven 39:40 My '42; Same. Gen Elec R 45:301 My '42; Same. Water Works & Sewerage 89:127 Mr '42

Merchandizing

Business guide for electrical dealers and salesmen. Elec West 88:53-5 Mr '42

Range-water heater combination reduces distribution demand. W. S. Fleming. Elec W 116:1887-8+ D 13 '41

Standards

Water heater report by E.E.I. committee. Elec W 117:348 Ja 24 '42

What of tomorrow? a suggestion from the electric water heating committee. C. M. Turner. diags Edison Elec Inst Bul 10:334-6+ S '42

ELECTRIC wave filters. See Electric filters

ELECTRIC waves

Cathode-ray method of wave analysis. V. O. Johnson. bibliog il Elec Eng 60:Trans 1032-6 D '41; Abstract. Electronics 15:84-6 Ja '42

Fundamentals of electric waves. H. H. Skilling. 186p bibliog(p181-2) $2.75 Wiley '42

Propagation constant and characteristic impedance of high loss transmission lines. K. Spangenberg. Electronics 15:57-8 Ag '42

Propagation of electromagnetic waves in a space charge rotating in a magnetic field. J. P. Blewett and S. Ramo. diag J Ap Phys 12:856-9 D '41

Propagation of electromagnetic waves in parabolic pipes. R. D. Spence and C. P. Wells. Phys R 62:58-62 Jl 1 '42

Reflection of electromagnetic waves from a parabolic friction-free ionized layer. O. E. H. Rydbeck. J Ap Phys 13:577-81 S '42

Surge propagation. T. F. Wall. diags Engineering 153:141-3, 181-2, 201-3, 261-3, 301-2, 341-2, 401-3, 461-3, 483-4; 154:121-3, 154-6 F 20, Mr 6-13, Ap 3, 17, My 1, 22, Je 12-19, Ag 14-21 '42

Wave form circuits for cathode ray tubes. H. M. Lewis. diags Electronics 15:44-8+ Jl; 48-53 Ag '42

See also

Electric currents, Alternating

Harmonics (electric waves)

Radio measurements

Radio waves

Mechanical analogies

Electrical and mechanical analogies. W. P. Mason. diags Bell System Tech J 20:405-14 O '41

ELECTRIC welders

Training

Color film shows inside of arc welding to speed training. il Steel 110:45 Ap 27 '42

How to train welding operators quickly for production work. E. W. P. Smith. il diag Steel 109:75-6+ D 22 '41

Inside of arc welding; all-color sound movie made available by General electric co. constitutes complete course in technique. il Power Pl Eng 46:58-9 Je '42

ELECTRIC welding

Advances in electric welding of tubes. D. A. Johnston. Iron Age 150:44-5 Jl 23 '42

Aircraft spot welding research; investigation of surface treatment of Alclad 24S-T in preparation for spot welding. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup257-65 Je '42

Ammunition cases for fighter aircraft; as made by Curtiss-Wright. G. Smith. il Steel 110:60, 62+ F 2 '42

Application of the pulsation welding process in the welding of large structures. O. C. Frederick and R. P. McCants. il diags Welding J 21:321-5 My '42

Automatic welding in ship construction; Unionmelt process. il diags Engineering 153:241-3, 250 Mr 27 '42

Automatic welding in shipyards; Unionmelt. il diags Engineer 174:301-4 O 9 '42

Clutches welded oil-tight automatically. il Steel 110:62 Mr 23 '42

Cutting and welding methods speed production; oxy-acetylene cutting and Unionmelt electric welding. il Marine Eng 47:227 O '42

Detail design for joining by flash welding. L. W. Combs. il diags Product Eng 13:552-5 O '42

Education needed in resistance welding. Elec W 118:629-30 Ag 22 '42

Electrical developments of 1941; welding. G. Bartlett. il Gen Elec R 45:26 Ja '42

Evaporator assemblies; resistance welded at high speed. il diag Steel 110:96+ Ap 13 '42

Fabrication and installation practices in building the Shasta penstocks. H. W. Young. il diags Steel 111:72-4+ Ag 10 '42

Fixture welding with an expansion gun. diags Am Mach 86:1123 O 1 '42

Flash butt welding of chrome-molybdenum steel. W. S. Evans and V. V. Netchvolodoff. il diags J Aeronautical Sci 9:207-12 Ap '42

Four who weld; brothers Sciaky, French spot welders. Business Week p49-50 S 12 '42

Gas and resistance welding the aircraft alloy SAE X-4130. H. Lawrence. il Steel 109:84-5, 88, 90+ N 17 '41

Hammered resistance welding. A. L. Pfeil. diags Steel 111:76 O 26 '42

Light-gage aircraft steel welding installation. il Welding J 21:487 Jl '42

Machine welding speeds Liberty ships. il Eng N 129:426-9 S 24 '42

Mass production through flash welding; engine mount; Douglas aircraft company. C. J. Hertel. il diag Welding J 20:846-9 D '41

ELECTRIC welding—*Continued*

Meter shop welder for light repairs. il Elec W 116:2057-8 D 27 '41

Metropolitan-Vickers electric welding; 60 kVA unit. il Electrician 127:235 O 24 '41

Metropolitan-Vickers portable spot welders. il Engineering 153:96 Ja 30 '42

Metropolitan-Vickers 60-kVA welding machine for projecting parts. il Engineering 152:446 D 5 '41

New equipment for welding. il Iron Age 148:63-6 N 13; 66-7 N 20 '41; 149:53-5 Ap 16; 150:64-8 N 5 '42

New welding process for heavy plate. il Marine Eng 47:280 O '42

Place and use of spot welding in design and production of aircraft; abstract. G. S. Mikhalapov. diags Product Eng 13:670-1 N '42

Porcelain enamel hot water tanks. il Welding J 21:21-2 Ja '42

Preparation of aluminum alloy for spot welding. T. E. Piper. il Welding J 21:661-4 O '42

Progress in engineering knowledge during 1941. P. L. Alger. bibliog Gen Elec R 45:110-11 F '42

Progressive rocker-arm welder. il Steel 111: 82 Ag 31 '42

Progressive welder company has complete line of seam welders. il diags Welding J 21: 486 Jl '42

Progressive welder co. portable welders. il Gen Elec R 45:363 Je '42

Quality control assures consistent welding of diversified metals; Westinghouse electric & mfg. co. F. C. Gandert. il Steel 110:95-6 Ap 27 '42

Radiography of spot welds. R. C. Woods, J. C. Barrett and T. W. Dietz. il diags Metals & Alloys 16:442-7, 1080-3 S, D '42

Resistance welding. il Elec R (Lond) 131: 137-40 Jl 31 '42

Resistance welding equipment. il Metals & Alloys 14:738-9 N '41

Self-compensating welder for plate. il Iron Age 149:52 Mr 26 '42

Shotweld process of welding stainless steel 18-8. J. Winlock and J. J. MacKinney. il Welding J 21:153-7 Mr '42

Some radiographic aspects of aluminum spot welds. R. C. Woods and S. L. Rich. il Welding J 21:101-4 F '42

Spot welding aluminum at Lockheed. H. L. Chiles. il Iron Age 149:29-33 Ja 29 '42

Spot-welding; development of portable machines. Electrician 128:39-40 Ja 16 '42

Spot welding in mild steel; inspection and control of quality. diags Engineer 174:132-3 Ag 14 '42

Spot welding machine speeds sheet metal work in Toronto shops. il Mass Transportation 38:203 Ag '42

Spot-welding of aluminum alloys for aircraft production. W. F. Hess. il Min & Met 23:114-16 F '42

Spot welding of 0.040 in. S.A.E. X-4130 steel. W. F. Hess and D. C. Herrschaft. il Welding J 21:sup441-7 O '42

Spot welding simplifies bearing assembly. diag Iron Age 150:45 O 22 '42

Stresses and distortion in high-speed welding. G. G. Landis. il diags Steel 110:74, 76+ Je 15 '42

Structural and metallurgical properties of condenser discharge spot welds. G. S. Mikhalapov and T. F. Falls. il Welding J 21: 223-9 Ap '42

Survey of aircraft resistance welding equipment. L. P. Wood. diags Welding J 20: 775-80 N '41

Survey of welding and cutting in ship construction. F. G. Outcalt and J. M. Keir. il diags Welding J 21:8-15 Ja '42; Same cond. Iron Age 149:36-42 Ja 22 '42; Excerpts. Steel 110:86, 90, 92+ Mr 23 '42

Upset forging with a butt welder; Thomson-Gibb electric welding co. il diags Iron Age 150:52-3 S 24 '42

Versatile welding machine. il Mach 48:119 My '42

War needs speeded by resistance welding. B. L. Wise. il diags Machine Design 14: 61-4+ Jl '42; Same. Steel 111:184-6, 188, 190 O 5 '42

Welded construction; suggestions for typical machine parts. E. W. P. Smith. diags Product Eng 13:388-9 Jl '42

Welded demolition bombs. J. J. Target. il Metals & Alloys 16:634-8 O '42

Welded inserts for superheater tubes. il diag Elec W 118:648 Ag 22 '42

Welding a ship a week; Oregon shipbuilding corp. H. W. Young. il Steel 110:77-8+ Mr 2 '42

Welding by Unionmelt on ore ship. il Marine Eng 47:128-9 S '42

Welding domestic oil furnaces and boilers; General electric co. J. E. Waugh. il Steel 110:84, 86+ Ap 20 '42

Welding guns walk to speed operations. il Steel 110:70 Mr 16 '42; Sci Am 166:281 Je '42

Welding in the aircraft industry. F. M. Smith. il diag Welding J 21:23-32 Ja '42

Welding jigs for nacelle subassemblies. P. Mitchell. il Am Mach 86:1114-16 O 1 '42

Welding of pressure vessels, tanks and heat exchangers. H. B. Schlosser. il Welding J 20:865-9 D '41

Welding simplifies making up pipe. W. E. Johnson. diags Rock Prod 45:30-1 S '42

Control

Electronic welding control. H. L. Palmer; M. E. Bivens. il diags Electronics 15:36-40+ Ag; 55-8+ S; 62-7 O; 65-9+ N '42

Forge welder controls welding cycles automatically. il Marine Eng 47:136 My '42

NEMA standardization of resistance weld and sequence timers. F. H. Roby. il diags Welding J 21:317-19 My '42

Progressive Temp-A-Trol welder. il Aviation 41:195-6 Jl '42

Weltronic seam welder controls. il R Sci Instr 13:370-1 Ag '42

Wiring template speeds assembly of control panels. il Iron Age 150:52 O 29 '42

See also
Electric welding, Arc
—Control

Cost

Repetition welding. Elec R (Lond) 129:668 D 12 '41

Electrode cooling

Development of zero welding by Ford at Willow Run. F. M. Reck. il Aero Digest 41: 164, 167+ O '42

Refrigerated tips; Frostrode welding process. H. Lawrence. il diags Steel 111:62, 64, 66 Ag 24 '42

Refrigeration increases number of spot welds obtained without dressing electrode points. il Am Mach 85:1165 N 12 '41; J Aeronautical Sci Aeronautical R Sec 9:41+ N '41; Iron Age 148:55 N 20 '41; Sci Am 165: 344 D '41

Electrodes

Development in cast-iron welding rods and electrodes. R. J. Franklin. Welding J 21: 698-9 O '42

Thermal gradients in spot welding electrodes. F. R. Hensel, E. I. Larsen and E. F. Holt. il diags Welding J 20:850-6 D '41

Welding rods, electrodes placed under strict control. Am Gas J 157:35 Jl '42

Power supply

Causes of welding troubles. A. Havens. Am Mach 85:1307-8 D 10 '41

Condenser discharge welding of aluminum alloys. J. W. Dawson and B. L. Wise. il Welding J 20:857-64 D '41

Condenser type aluminum spot welder. il Iron Age 149:33 Ja 15 '42

Demand improvement for resistance welding loads. H. R. Crago. il Welding J 20:797-9 N '41

D.c. seam welding. T. W. Dietz. il diags Iron Age 150:58-9 O 1 '42

Electrical characteristics of resistance welders and the proximity effect of work materials. J. H. Cooper. Welding J 21:112-17 F '42

ELECTRIC welding—Power supply—*Continued*

Electronic welding control. H. L. Palmer; M. E. Bivens. il diags Electronics 15:36-40+ Ag; 55-8+ S; 62-7 O; 65-9+ N '42
How series capacitors are used to reduce peak demands of resistance welding machines. R. E. Marbury. il diag Steel 110: 88, 91-2 F 23 '42
How to make a transformer welder. L. Bradley. diags Power Pl Eng 45:88-9+ D '41
Lessons learned in serving resistance welders; service to single-phase welders reinforced to obviate flicker. C. N. Clark. Elec W 117:1505-7 My 2 '42
Power supply for resistance welders. C. E. Heitman, jr. Elec W 117:526+ F 7 '42
Quick switching for a.-c. motors; abstract. P. C. Ziemke. Eng & Min J 143:69-70 Jl '42
Resistance-welding transients. E. E. Kimberly. Elec Eng 61:Trans 94-5 F '42
Series capacitors correct welder voltage fluctuations. E. L. Harder and L. Gise. diag Elec W 117:1656-8 My 16 '42
Sewing alclad aluminum; spot welding by the condenser discharge method. W. E. Klingemen. il Iron Age 149:69-71 My 7 '42
Stored energy welds aluminum. C. E. Smith. il diags Am Mach 86:375-8 Ap 30 '42
Voltage variation tolerance for a.c. resistance welding. L. G. Levoy. bibliog Welding J 21:454-60 Jl '42
Welding transformers and their control equipment for Unionmelt welding. W. E. Wilson. il plans Gen Elec R 45:451-7 Ag '42
What capacitor for welders. R. E. Marbury. il diag Factory Management 100:113-14 S '42

Standards

Tentative standards and recommended practices and procedures for spot welding of aluminum alloys. il diags Welding J 21:515-55 Ag '42; Excerpts. Metal Prog 42:367+, 912-13+ S, N '42

Testing

Behavior of spot welds under impact. A. M. Unger, H. A. Matis and E. P. Gruca. il Welding J 21:sup94-8 F '42
Device for measuring tip force and current in spot welding. H. Wolfe and R. W. Powell. bibliog il diags Welding J 21:sup 293-6 Je '42
Effect of weld spacing on the strength of spot-welded joints. R. Della-Vedowa and M. M. Rockwell. il diag Welding J 21: sup514-23 O '42; Abstract. Iron Age 150: 49 charts (p50, 51) O 22 '42
Effect on the endurance limit of submerging resistance-welded fatigue specimens in a cold chamber. O. H. Henry and P. L. Calamari. Welding J 21:sup291-2 Je '42
Examination of spot welds in Alclad 24S-T. W. F. Hess, R. A. Wyant and B. L. Averbach. il Welding J 21:sup348-52 Jl '42
Fatigue strength of commercial butt welds in carbon-steel plates. W. M. Wilson. il diag Welding J 21:sup491-6 O '42; Conclusions. Iron Age 150:46-7 O 22 '42
Fatigue tests of full thickness plates with and without butt welds. E. C. Huge. diags Welding J 21:sup507-14 O '42
Investigation of spot-weld test specimens; comparison of specimen types and dimensions; Alclad. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21: sup113-22 Mr '42
Progress report on the use of flash welding as a means of fabricating aircraft structural parts from X-4130 steel. R. P. Della-Vedowa. il diags Welding J 21:sup421-6 S '42; Same. Steel 111:80-2, 93 D 21 '42
Resistance welding trench mortar fin assemblies. J. H. Cooper. il diags Welding J 21:sup501-6 O '42
Spot welding. R. F. Tylecote. bibliog il diags Welding J 20:sup359-68, sup591-602 Ag, D '41
Spot welding of N-A-X high-tensile steel. W. F. Hess and C. R. Schroder. il Welding J 21:sup203-8, 241-4 Ap-My '42
Spot welding of N-A-X high-tensile steel. C. R. Schroder. Welding J 21:690-4 O '42
Weld efficiency; abstracts. H. N. Pemberton. Elec R (Lond) 130:339-40 Mr 13 '42; Electrician 128:226-8 Mr 13 '42

ELECTRIC welding, Arc

Arc-welded design and construction applied to conveyors. P. A. Smith. il Welding J 20:168-70 Mr '41; Same. Mech Handling 29:103-5 Je '42
Arc-welded evaporators for use in sugar refining. il Engineering 153:45 Ja 16 '42
Arc welded light boats. il Iron Age 149:40 Ja 29 '42
Arc welded road scrapers. H. Chase. il Am Mach 86:706-8 Jl 9 '42
Arc-welders' check chart. R. F. Wyer. Power 86:703 O '42
Arc welding aluminum. G. G. Landis. il diags Marine Eng 47:107-8 F '42
Arc welding and war production. E. C. Davies. il Engineer 174:255-7, 275-6 S 25-O 2 '42
Arc welding applications. E. W. P. Smith. il Aero Digest 41:180, 182+ S '42
Arc welding around the gas plant. A. F. Davis. il Am Gas J 156:18, 21 My '42
Arc welding cuts maintenance costs; illustrations. C. A. Crane. Chem & Met Eng 49: 92-3 Ap '42
Arc welding dissimilar metals. A. F. Davis. il Metals & Alloys 16:69-70 Jl '42
Arc welding handbook. C. J. Holslag. 11th ed 313p $2 Electric arc, inc, 152 Jelliff av, Newark, N.J. '41
Arc-welding important factor in constructing lightweight drilling equipment. il Pet Eng 14:64 O '42
Arc welding; job training units. 103p Am. technical soc, Chicago '42
Arc welding magnesium possible by new method developed by Northrop. Iron Age 149:125 Je 25 '42
Arc welding relieves cylinder headaches. F. A. Jones. il Welding J 21:183 Mr '42
Arc welding salvages machines subjected to hard wear in gas producing plants. il Am Gas J 157:27 S '42
Arc welding saves 25 per cent of stack weight. Blast F & Steel Pl 29:[1145] N '41
Arc-welding sewage treatment plant at Gary, Ind. A. F. Davis. il Welding J 21:460-1 Jl '42
Arc welding simplifies and speeds construction of pipe lines. C. M. Taylor. il Oil & Gas J 41:172-3 S 24 '42
Automatic welding aids clutch production; Borg & Beck co. il Automotive Ind 86:30+ Ja 1 '42; Automobile Eng 32:403 O '42
Automatic welding gantry for making long continuous welds. il Mach 48:186 D '41
Automatically welded seal; electric refrigerator compressor. il Steel 110:94+ Mr 9 '42
Avoid overwelding. C. M. Taylor. diags Steel 111:88, 91-2 Ag 10 '42
Awards to refrigeration men in Lincoln contest. Refrig Eng 44:321 N '42
Block or cascade welding. H. Lawrence. diags Steel 110:78, 80+ My 4 '42
Breaker worm wheels rebuilt by welding. il diags Elec W 117:2096 Je 13 '42
Comparison of a.c. and d.c. arc-welded joints. L. A. Moore. Welding J 21:sup352 Jl '42
Controlling the effect of contraction and included stresses in welded structures. A. E. Berriman. il diags Welding J 21:373-8 Je '42
Corroded stacks repaired by welding. C. D. Cooper. il Power Pl Eng 46:94 O '42
Cutting tools tipped with high speed steel; General tool & die corp. il Iron Age 149:53-5 Mr 26 '42
Deep girders welded by automatic arc. il diag Iron Age 149:70-1 Mr 26 '42
Electric arc welding. T. A. Long. Inst E E J 89 pt 1:138-42 Mr '42
Electric welding practices in the gas industry. il Am Gas J 157:23-5 N '42
Electric welding repairs broken crankshaft. G. Barrett. diags Power 86:586-7 Ag '42
Electronic tornado welds seam near rubber gland; construction of Airflex couplings. il Rubber Age 50:205 D '41
Erection of piping by welding aids war effort; cost and speed data. diags Marine Eng 47:168 S '42

ELECTRIC welding, Arc—*Continued*

Fabricating piping systems by electric-arc welding. A. M. Hill. il diags Oil & Gas J 41:41-3+ Jl 16; 38-9 Jl 23; 161-2 Jl 30; 45-6 Ag 6 '42

Fabrication of steel girders by arc-welding. il Engineering 154:6 Jl 3 '42

Flame cutting and electric welding in shipbuilding. C. A. Rober. il Metal Prog 40:753-8 N '41

Flame preheating and stress relieving arc-welded high-pressure pipe lines; use of oxyacetylene and propane. P. T. Onderdonk and W. Peterson. il diags Welding J 21:96-101 F '42

42-inch valves welded. il Steel 109:70 N 17 '41

Fusion welding. il Elec R (Lond) 131:69-72, 109-12 Jl 17-24 '42

Graphic records for quality control in welding; Arconograph. H. Lawrence. il Steel 109:76, 79+ D 1 '41

Handling of Ni-clad steel. J. V. Kielb. diags Welding J 20:784-6 N '41

Hard facing to reduce wear; value of the electric arc process. Chem Age (Lond) 47:13 Jl 4 '42

Heat flow in arc welding. E. M. Mahla and others. il diag Welding J 20:sup459-68 bibliog(40 titles, sup468); 21:sup52-3 O '41, Ja '42

High-speed arc welding. S. G. P. de Lange and E. S. Waddington. il Elec R (Lond) 129:633-4 D 5 '41

How to choose a.c. arc welding equipment. R. F. Wyer. il diags Iron Age 148:56-60 D 4; 62-8 D 11 '41

How to get the most from arc welding (cont). E. W. P. Smith. il diags Steel 109:66-8, 70 N 24; 75-6+ D 22 '41; 110:76, 79+ F 9; 72, 74+ F 16; 111:90, 92, 94 Jl 6; 98 Jl 13; 77-8+ O 19 '42

Huge copper tank is metallic arc welded. il Steel 109:64 D 1 '41

Improved equipment aids arc welding of sheet metal work. R. A. Gast. il Welding J 21:399 Je '42

Inside of arc welding; all-color sound movie made available by General electric co. constitutes complete course in technique. il Power Pl Eng 46:58-9 Je '42

Inside of arc welding; illustrations with text. Am Mach 86:1082-3 O 1 '42

James F. Lincoln arc welding foundation awards. Science 96:397-8 O 30 '42

Jigs and manipulators for fusion welding. il diags Engineering 152:430, 437-40 N 28 '41

Keep arc welders welding; keep in tiptop shape both mechanically and electrically. R. F. Wyer. il Factory Management 100:115-18+ Je '42

Keep your welding machines welding. R. F. Wyer. il Steel 111:88, 90+ Jl 20 '42; Same. Welding J 21:449-53 Jl '42; Same. Aviation 41:133-6+ N '42; Same. Mach 49:155-61 D '42; Same cond. Gen Elec R 45:438-42 Ag '42; Excerpts. Eng & Min J 143:66-7 S '42

Lessons in arc welding. 2d ed 176p 50c Lincoln electric co, Cleveland '41

Many applications for welding in refinery maintenance. G. W. Nigh. il Nat Pet N 34:R34-6, R38 F 4 '42

Metal transfer in the metallic arc. L. J. Larson. bibliog il Welding J 21:sup107-12 F '42

Metallic arc welding of copper pressure vessels. G. H. Sandberg. il Welding J 21:507-9 Ag '42

Metallic arc welding used in fabrication special swing frame grinder; with cost data. J. S. Green. il diag Welding J 21:42 Ja '42

Navy men take grand award in $200,000 Lincoln study program; list of winners. il Steel 111:62-3 O 12 '42

New bottoms for oil tanks. E. G. Woolman. diags Sheet Metal Worker 33:29 O '42

New cladding method employs automatic carbon arc. il Steel 110:62 Mr 30 '42

New equipment. il Iron Age 149:57-8 Ap 23 '42

1941 electric arc welding developments. R. F. Wyer. Blast F & Steel Pl 30:93+ Ja '42

Oil-field trailers made sturdy and light by arc-welding. A. F. Davis. il Pet Eng 13:124 Ja '42

Plug welding replaces staybolts; sterilizer units used by hospitals. il diags Iron Age 149:52 Mr 12 '42

Practical arc welding; a text book. W. J. Chaffee. 516p $2 Hobart trade school, Box EW 80, Troy, Ohio '42

Practice of arc welding. W. Heigh. 114p $2 Pitman '41

Procedure handbook of arc welding design and practice. 7th ed 1267p $1.50 Lincoln electric co, Cleveland '42

Production welding and cutting at West Coast yards. G. V. Slottman. il Marine Eng 47:225-6 O '42

Pulp and paper men win Lincoln Foundation welding awards. Pulp & Pa of Can 43:866 O '42; Paper Ind 24:675 O '42

Recent welded piping installations show value of new techniques. G. G. Landis. il Welding J 21:329-30 My '42

Reconditioning oil tanks by simplified arc welding method. diags Steel 110:96 Ap 20 '42

Reducing truck-wheel costs by arc welding. G. G. Landis. il diags Mach 49:142-4 S '42

Removing broken drills with arc welding technique. H. J. Burnett and C. E. Hensling. il Iron Age 150:58-60+ S 24 '42

Repair of tractor parts by welding; with cost data. J. A. Cunningham. il diags Eng N 129:312-14 Ag 27 '42

Repair welding in Alaska. B. L. Crosby. il diags Welding J 21:326-8 My '42

Repairing storage tanks. R. Wagner. diags Welding J 21:173-4 Mr '42

Repairs in shop and field by electric arc welding; highway equipment. il Roads & Sts 85:73-7+ O '42

Residual stresses in welded structures. H. E. Rossell. diags Marine Eng 47:101-2+ F '42

Sabotaged Italian ship repaired. A. F. Davis. il Welding J 21:184 Mr '42

Shop fabrication of special tools. A. F. Davis. il Pet Eng 13:113 F '42

Slot welding avoided warp when building conveyor. diag Coal Age 47:70 S '42

Some arc welding developments of 1941 that affect the repair shop. R. F. Wyer. il Concrete (mill sec) 50:124 F '42

Some comparisons of track welding methods; Koppers coal division of Eastern gas & fuel associates; thermit and electric welding. il diags Min Cong J 28:8-10+ My '42

Speeding production by automatic welding; aluminum gas tanks for Flying Fortresses. il Aviation 41:178 Jl '42

Spherical joints for welded tubular structures. diags Mach 48:146-7 F '42

Stainless steel arc welding techniques. E. W. P. Smith. il diags Iron Age 149:57-62 Ap 2 '42

Strengthening bridges and structures by arc welding. il Mass Transportation 38:129 My '42

Stud-welding system. A. M. Candy. il plan Welding J 21:509-12 Ag '42

Three interesting arc welding applications. A. F. Davis. il Welding J 21:175-7 Mr '42

Trash rack welded in one-half time. G. A. Peabody. il Elec W 117:2237 Je 27 '42

Travel frame for automatic welding head is designed with several unique features. il Steel 110:74 Je 8 '42

Use of hardfacing material on rotary tool joints. T. P. Sanders. il Oil & Gas J 40:36, 39+ F 5 '42

Utilizing mine scrap by welding. il Min Cong J 28:18-19 Mr '42

War maintenance; tires and wheels. il Coal Age 47:99-102 O '42

War requirements bring changes in arc-welding technique as applied to pipe-line construction. C. M. Taylor. il Pet Eng 13:114, 116, 118 Mr '42

Weaving; wide beads, narrow beads. E. W. P. Smith. Welding J 20:845 D '41

Weld-fabrication of mine cars. il Min Cong J 28:38-9 Ja '42

Weld hardening and steel composition. A. Edson. bibliog diag Metals & Alloys 15:966-71 Je '42

Welded liquefied natural gas storage tanks. J. O. Jackson. il diag Welding J 20:833-6 D '41

ELECTRIC welding, Arc—*Continued*

Welded repairs to girth seams of boilers. O. W. Malarkey. diags Power Pl Eng 46:92-3 O '42

Welded scrap; substitute for replacement parts. C. M. Taylor. il Steel 110:60-1 Ap 27 '42

Welded seal rings cost 60% less. il Elec W 117:2246+ Je 27 '42

Welded tank accident proves advantages of arc-welded construction. H. P. Rigsby. il diag Welding J 21:41 Ja '42

Welding a must for continuity of operations and low maintenance at mechanical mines. E. Prudent. il Coal Age 47:63-5 Je '42

Welding and testing Shasta penstocks. G. L. Yetter. il Eng N 128:542-5 Ap 9 '42

Welding applications in naval machinery. H. W. Hiemke and J. D. Bert. il diags Welding J 21:157-64 Mr '42

Welding chromium steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. bibliog il diags Welding J 21:sup353-84, sup 389-415 Ag-S '42

Welding design saves steel. A. F. Davis. il Welding J 21:266-70 Ap '42

Welding design, specifications and inspection. E. W. P. Smith. il Iron Age 150:41-5 O 8 '42

Welding for the repair of steel-framed buildings. diags Engineer 173:116-18 F 6 '42

Welding in gas plant maintenance. E. W. P. Smith. il Steel 111:92, 95+ S 7 '42

Welding, its application to aircraft. F. H. Stevenson. il diags Welding J 21:676-82 O '42

Welding makes continuity in steel work advantageous. G. G. Landis. diags Welding J 20:620-1 S '41; Discussion (Continuity through welding). M. P. Korn. diags 21:17-20 Ja '42

Welding of light gage steel tubing in aircraft production. J. P. Weed. il Welding J 21:379-83 Je '42

Welding oil machinery and equipment. A. F. Davis. il Welding J 21:392-4 Je '42

Welding reclaims bronze hydro runner. G. H. Bragg. il Elec W 118:76-7 Jl 11 '42

Welding saves loss of two months on slab mill. il Blast F & Steel Pl 30:459-60 Ap '42

Welding simplifies screen construction. J. Baxter, jr. il diags Paper Ind 23:896-8 D '41

Welding speeds plant construction, maintenance; pans, hoppers, pipes, tanks, conveyors and other food plant equipment. C. M. Taylor. il Food Ind 14:58-9 N '42

Welding stainless pressure vessels. G. H. Sandberg. il Am Mach 86:293-5 Ap 2 '42

Welding tricks. A. F. Davis. il Power Pl Eng 46:108 Jl '42

Control

Lincoln improved arc welder control eliminates need for meter. il Marine Eng 47:114 F '42

Lincoln protective control device. il Pet Eng 13:148 N '41

Protective control device for welding sets. il Mech Handling 29:139 Jl '42

Wilson arc control stations increase capacity of welding generators. il Marine Eng 47:278 O '42; Refrig Eng 44:322 N '42

Cost

Arc welding cuts costs. il Eng & Min J 142:63-4 N '41

Marked economy of welded construction in production of machine bases. R. A. Gast. diags Mach 49:165-6 S '42

Where to use the automatic carbon arc. E. W. P. Smith. il diags Steel 109:66-8, 70 N 24 '41

Electrodes

All-position a-c. arc-welding electrode. il Pet Eng 13:91 Jl '42

Arc welding electrodes; effective methods of application. diags Automobile Eng 32:375-7 S '42

Case histories show faster welding does result from use of larger electrodes. E. W. P. Smith. il Steel 111:98 Jl 13 '42

Coated welding electrodes; abstract. R. O. Waldman. Metals & Alloys 16:778+ O '42

Conservation of welding electrode. C. B. Herrick. il diags Welding J 21:256-60 Ap '42; Same. Coal Age 47:70-2 Mr '42; Same. Oil & Gas J 40:41, 43 Mr 12 '42; Same cond. Eng & Min J 143:64-5 Mr '42; Metals & Alloys 15:459-60 Mr '42; Power 86:266-7 Ap '42; Product Eng 13:238-9 Ap '42; Steel 110:83-4+ Mr 30 '42; Transit J 86:105-7 Mr '42; Elec W 117:1043 Mr 21 '42; Bus Transportation 21:188-9 Ap '42; Abstract. Automotive & Aviation Ind 86:33 My 1 '42

Economical use of arc-welding electrodes. il Engineering 154:126-7 Ag 14 '42

Electrode for Fleet-Fillet welding technique. Pet Eng 13:149 S '42

Faster welding through the use of larger electrodes. Mach 48:120 Je '42

How to select arc welding electrodes. C. H. Jennings. il Iron Age 150:42-7 O 15 '42

Larger welding rod; abstract. J. F. Lincoln. Mech Eng 64:309 Ap '42

Lincoln Electric's nation wide survey shows larger electrode, speeds war production and reduces cost. Mech Eng 64:sup25+ N '42

New coated bronze electrode for arc welded repairs on bronze propellers. Marine Eng 47:268 O '42

Procedure control in metallic arc welding. O. T. Barnett. Welding J 21:170-3 Mr '42

Proposed specifications for stainless steel arc-welding electrodes for welding steels of high hardenability. diags Welding J 21:513-14 Ag '42

Semi-automatic welding rod. J. A. Neumann. il diag Steel 110:92, 94-5 Je 22 '42

Study of the effect of core wire temper on the quality of welds in nickel, monel and inconel. F. G. Flocke and K. M. Spicer. il Welding J 21:sup129-32 Mr '42

Tentative specifications for iron and steel arc-welding electrodes. diags Welding J 21:594-7 S '42

Use larger arc-welding electrodes to speed up the war program. H. O. Westendarp, jr. il Gen Elec R 45:267-8 My '42; Same. Blast F & Steel Pl 30:542-4 My '42; Same. Welding J 21:386-7 Je '42; Same. Power 86:464 Jl '42; Same. Marine Eng 47:160-1 S '42; Same abr. Iron Age 149:78 My 7 '42; Abstract. Sheet Metal Worker 33:23 My '42

Use the right electrode. M. R. Soth. il Am Mach 86:1-3 Ja 8 '42

When, where and how to weave the welding electrode. E. W. P. Smith. diags Steel 110:76, 79+ F 9; 72, 74+ F 16 '42

Fleet-fillet process

Faster arc welding with less electrode material; Fleet-fillet technique. il diags Iron Age 149:48-9 Ap 30 '42

Fleet-fillet welding, a new welding technique. Mach 48:158 Je '42

Improved techniques to speed your electric-welding production; correct electrode angle and faster travel increase depth of weld penetration; Fleet-Fillet method. A. F. Davis. il diags Power 86:465 Jl '42

New welding technique; Fleet-fillet. C. M. Taylor. il diags Steel 110:70, 72+ Je 1 '42

New welding technique increases production; Fleet-Fillet technique. il diags Marine Eng 47:112-14 Jl '42; Ry Mech Eng 116:246-7 Je '42

Heliarc process

Fusion welding of magnesium; Heliarc process. T. E. Piper. il Metal Prog 42:404+ S '42

Heliarc, a process for magnesium welding. Mach 49:188 O '42; Aeronautical Eng R 1:97+ O '42

Heliarc welding of stainless steel. T. E. Piper. Welding J 21:sup490+ O '42

Helium shielded arc welding; Heliarc process. H. V. Pavlecka. il diags Iron Age 150:74-6 S 17 '42; Same. Steel 111:98-100+ N 23 '42; Same cond. Automotive & Aviation Ind 87:40-1+ S 15 '42; Same cond. Metals & Alloys 16:451-2+ S '42; Same cond. Aero Digest 41:218+ O '42; Same cond. Aviation 41:147, 323-4 N '42; Abstract. Am Mach 86:1043-4 S 17 '42

Magnesium use broadened by new welding process. Product Eng 13:604 O '42

ELECTRIC welding, Arc—*Continued*

Hydrogen process

Manual atomic hydrogen welding of tool steels. C. H. Speakman. il Steel 110:86+ My 18 '42
Metallographic investigations and bending fatigue tests on welded thin plates of high tensile steel. R. Mailänder, W. Szubinski and H. J. Wiester. diags Welding J 21:sup 30-3 Ja '42

Hygienic aspects

Effects of daily exposures to arc welding fumes and gases upon normal and tuberculous animals. L. U. Gardner and D. S. McCrum. bibliog il J Ind Hygiene 24:173-82 S '42
Finds no danger to workmen in arc-welding fumes. Concrete (mill sec) 50:194 Je '42
Ventilation for control of fumes in wartime welding work. W. C. L. Hemeon. diags Heating-Piping 14:341-4+ Je '42
Welding fumes from arc welding. G. C. Harrold. bibliog Welding J 21:367-70 Je '42
What effect do light rays from arc welding or flame cutting have on eyes? H. F. Ingersoll. Welding J 21:320-1 My '42

Inspection

Inspection of arc welded work. diags Engineer 173:254-6 Mr 20 '42
Visual inspection of arc welds. W. L. Warner. Welding J 21:682-3 O '42

Power supply

Characteristics of a.c. and d.c. arc welders. C. H. Jennings and A. B. White. il diags Iron Age 150:50-5+ Ag 20 '42
Fusion welding. il Elec R (Lond) 131:69-72 Jl 17 '42
High-quality welding in vertical and overhead position with alternating current. H. O. Westendarp, jr. il Welding J 21:695-7 O '42; Same. Gen Elec R 45:691-4 D '42
Load characteristics of small arc welders. L. W. Wyss. Elec W 117:91-2 Ja 10 '42
Use of recording ammeters and voltmeters in welding. H. Lawrence. il Steel 109:54, 56+ D 15 '41

Safety measures

Eye protection for arc welders; metallic films on lenses. J. A. Neuman. Iron Age 149:56 Ap 2 '42
Keep your welding machines welding. R. F. Wyer. il Steel 111:88, 90+ Jl 20 '42; Same. Welding J 21:449-53 Jl '42; Same cond. Gen Elec R 45:438-42 Ag '42

Speed

How to figure arc welding speed. H. O. Westendarp, jr. il Iron Age 150:54-7 S 24 '42
Why not increase arc speeds now. E. W. P. Smith. il diag Steel 111:90, 92, 94 Jl 6 '42

Standards

Tentative specifications for iron and steel arc-welding electrodes. diags Welding J 21: 594-7 S '42

Study and teaching

See also
Electric welders—
Training

Testing

Arc welded SAE 4130; studies at Battelle memorial institute; abstract. Iron Age 150: 50 O 22 '42
Effect of preheating temperature upon shrinkage stresses in welded high-tensile steel plates. R. W. Leutwiler, jr. bibliog il diags Welding J 21:sup198-203 Ap '42
Effect on the endurance limit of submerging welded fatigue specimens in a cold chamber. O. H. Henry and S. Cannizzarro. il diag Welding J 21:sup387-8 Ag '42
Effects of residual stress and external restraint on some welding characteristics of SAE X-4130 steel tubing. G. Sachs and W. E. Davis. il diags Welding J 21:sup427-33 S '42
Effects of welding procedure on joints made in type 304 stainless steel. E. P. Auler. bibliog il diags Welding J 21:sup98-106 F '42
Fatigue properties of welds made in various boiler plate materials; abstract. E. C. Huge. Iron Age 150:47 O 22 '42
Investigation of welded and riveted load-bearing stiffeners of plate girders. F. J. Evans and H. Brenman. il diags Welding J 21:sup280-5 Je '42
Investigation of welded connections for angle tension members. G. J. Gibson and B. T. Wake. il diags Welding J 21:sup44-9 Ja '42
Magnetic inspection of arc welds; abstract. C. H. Hastings. Iron Age 150:48-9 O 22 '42
Plug weld test. W. E. Riley. diags Welding J 21:sup53-5 Ja '42
Report of tee-bend tests on carbon-manganese steels. L. C. Bibber and J. Heuschkel. il diags Welding J 21:sup485-90 O '42
Report of tests on butt joints with through plate stiffeners. W. J. Krefeld and J. D. Kenney. il diags Welding J 21:sup269-79 Je '42
Static tests of fillet and plug welds; a review of literature from 1932 to Jan. 1, 1940. W. Spraragen and G. E. Claussen. bibliog(77 references) il diags Welding J 21:sup161-97 Ap '42
Study of the effect of core wire temper on the quality of welds in nickel, monel and inconel. F. G. Flocke and K. M. Spicer. il Welding J 21:sup129-32 Mr '42
Tensile-impact resistance of carbon-molybdenum welds at elevated temperatures. O. H. Henry and M. A. Cordovi. il diags Welding J 21:sup416-20 S '42
Tests of miscellaneous welded building connections. B. Johnston and G. R. Deits. bibliog il diags Welding J 21:sup5-27 Ja '42
Weld quench gradient tests. W. H. Bruckner. il diag Welding J 21:sup496-500 O '42
Weldability of carbon-manganese steels; weld-bead hardness and weld-bead bend tests. O. E. Harder and C. B. Voldrich. il diags Welding J 21:sup450-66 O '42
Weldability tests of carbon-manganese steels. C. E. Jackson, M. A. Pugacz and G. G. Luther. il Welding J 21:sup477-84 O '42
Welding of copper. A. P. Young. bibliog il diag Welding J 20:sup513-21 N '41

ELECTRIC wire

Calculating the right size of wire. E. G. Key. Power Pl Eng 46:88-9 Ja '42
Compounding Buna S synthetic rubber; summary on compounds for wire insulation. India Rubber W 107:36-9 O '42
Copper and aluminium. L. P. Dudley. bibliog Electrician 128:419-22 My 1 '42
Fusing currents; their values for copper and aluminium wires. L. P. Dudley. bibliog Electrician 128:5-7 Ja 2 '42
Guayule rubbers in wire and cable insulation. R. E. Morris and others. Rubber Age 51:479-81 S '42
How short can wire be spliced economically? il Elec W 117:1856 My 30 '42
Iron for line construction; use of solid and stranded steel wire in place of copper. il Elec West 89:38-9 Jl '42
Light and accelerated light aging of rubber, synthetic rubber, and rubber substitutes; wire insulation stocks. T. A. Werkenthin and others. il Rubber Age 50:199-202 D '41
Line wire removed by demountable reel. il Elec W 117:336 Ja 24 '42
Metropolitan-Vickers insulation-stripping machine for wires and cables. il Engineering 153:517 Je 26 '42
Properties and characteristics of Formex wire; insulated with film of synthetic resin of polyvinyl acetal type. J. J. Curtin. il diags Gen Elec R 45:285-92 My '42; Excerpts. Electrician 129:147-51 Ag 7 '42
Reclaiming wire for reinsulation. il Elec W 118:475-6 Ag 8 '42
Saturate and wax braid of old wire. diag Elec W 117:1858-9 My 30 '42
Selecting insulated wires. R. G. Zender. Aero Digest 40:299 Ja '42
Strict allocations for wire and cable rubber. Elec W News ed 117:571 F 14 '42

ELECTRIC wire—*Continued*

Stripping machine reclaims wire. J. F. Emery. il diag Elec W 117:1023-4 Mr 21 '42

Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

War substitutions for wire and cable insulations. C. A. Finkel. Elec W 118:613-16 Ag 22 '42

See also

Electric cables
Electric conductors
Electric lines
Electric wiring
General cable corporation

Specifications

WPB order on rubber insulation; emergency specifications for rubber covered wire and cable and its substitutes. Elec West 89:66 O '42

WPB specifications for wire and cable issued. Elec W 117:1189 Ap 4 '42

ELECTRIC wiring

American installation practice; equipment of a Red Cross field hospital unit in England. il Elec R (Lond) 130:19-21 Ja 2 '42

American recommended practice of industrial lighting. Illum Eng 37:316-20 My '42

Conservation of materials for defense wiring. H. R. Stevenson and O. K. Coleman. il Edison Elec Inst Bul 9:437-8+ N '41

Defense housing speeded; electric installations for knockdown dormitory buildings; Farm security administration. S. Beamer. il diag plan Elec West 87:54-6 N '41

Direct current wiring systems for conveyor mining. W. F. Roberts. il diags Min Cong J 28:56-9 Je; 39-41 Jl '42

Electric wiring and the war effort. O. K. Coleman. Edison Elec Inst Bul 9:497-8 D '41

Electrical wiring specifications. E. Whitehorne and others, eds. 181p $2.50 McGraw-Hill '41

Exterior feeds solve rewiring problem; changeover in factory office building; General electric co. A. H. Fish. il diags Elec W 118:764-6 S 5 '42

Incentives cut wiring costs. C. H. Brechin and P. M. Matthews. il Factory Management 100:118-19 My '42

Installation planning; abstract. H. M. Winstanley. Elec R (Lond) 129:703 D 19 '41

Installations section; chairman's address. H. T. Young. Inst E E J 89 pt 1:129-33 Mr '42; Abstracts. Elec R (Lond) 130:233-4 F 20 '42; Electrician 128:143-4 F 20 '42

Non-metallic sheathed cable wiring; under code amendment nos. 43 and 44. E. S. McConnell. diags Edison Elec Inst Bul 10:337-9 S '42

Opportunities for conservation of critical materials in victory housing and industry. J. F. Porter, jr. Edison Elec Inst Bul 10:134-5 Ap '42

Post-war planning; work for I.E.E. sub-committee concerned with installations. Electrician 127:265 N 7 '41

Power design in defense plants. H. Winte. diags Elec W 116:2039-41; 117:59-62 D 27 '41-Ja 10 '42

Practical and technical electricity; power wiring (direct current). J. G. Wolber and O. K. Rose. 3d ed 487p $3.50 Goodheart-Willcox co, 2009 S. Michigan av, Chicago '42

Practical electrical wiring. J. P. Warner. 62p, 55p, 64p $1.80 International textbook co. Scranton, Pa. '40

Pre-cut wiring materials. il Elec West 88:55 Ap '42

Review of installation methods; abstract. L. C. Grant. Elec R (Lond) 130:337-8 Mr 13 '42; Discussion. 130:369-70 Mr 20 '42; Electrician 128:253-5 Mr 20 '42

Simplification in wiring field. Elec West 88:43 Mr '42

Solving war-time electrical problems; discussion. Inst E E J 89 pt 2:45-51 F '42

Solving war-time problems. A. G. Ramsey. Electrician 127:282-3 N 14 '41; Discussion. 127:295-6, 320 N 21, D 5 '41

War-time developments in electric wiring. E. S. McConnell. Edison Elec Inst Bul 10:93-4 Mr '42

Wartime installations; abstracts. W. R. Watson. Elec R (Lond) 130:527 Ap 24 '42; Electrician 128:386-7 Ap 24 '42; Discussion. Elec R (Lond) 130:594-6 My 8 '42; Electrician 128:427-8, 453-6, 562-3 My 1-8, Je 5 '42

Wartime wiring. T. C. Gilbert. Elec R (Lond) 130:199-200 F 13 '42

Wiring for aircraft; electrical assembly designs. L. C. Jones. il Product Eng 12:634-7 D '41

Wiring simplified. H. P. Richter. 14th ed 122p pa 25c Park pub. co. 351 E. Ohio st, Chicago '41

See also

Electric cables
Electric conduits
Electric distribution
Electric fuses
Electric lighting
Electric lines
Electric transformers—Connections
Electric transmission
Insulation (electric)
National electrical code
Telegraph
Telephone
Telephone cables
Telephone lines

Diagrams

How to connect controls, meters and relays for synchronous condensers. Elec W 118:1480 O 31 '42

Temporary power for hand tools used in construction; typical wiring diagrams. Elec West 89:69 Ag '42

Safety measures

Electrical safety. Electrician 128:187-8 Mr 6 '42

Electricity and fire risk. Electrician 128:311-12 Ap 3 '42

Report presented to the council by the committee on multiple earthing of the neutral conductor. diags Inst E E J 89 pt 1:312-15 Jl '42; Discussion. Electrician 129:165-6 Ag 14 '42; Discussion. S. H. Parker. Elec R (Lond) 131:207-8 Ag 14 '42

Trailer danger; electrically energized frames. il Elec West 88:57 Ja '42

Use of protective multiple earthing and earth-leakage circuit-breakers in rural areas (second report). H. G. Taylor. diags Inst E E J 88 pt 2:415-22 O '41

Voltage-operated earth leakage protection. T. C. Gilbert. il diags Inst E E J 88 pt 2:183-97 Je '41; Discussion. 88 pt 2:197-221, 365-70, 608-10 Je, Ag, D '41

Standards

I.E.E. regulations; wartime relaxations. Elec R (Lond) 131:56 Jl 10 '42

Service standards for war housing defined. Elec W 117:2232 Je 27 '42

Wiring installations; war emergency British standard code. Electrician 129:137-8 Ag 7 '42; Elec R (Lond) 131:174-5 Ag 7 '42

Wiring rules relaxations. Electrician 129:31-2 Jl 10 '42

Tables, calculations, etc.

Calculating the right size of wire. E. G. Key. Power Pl Eng 46:88-9 Ja '42

Pick wire that fits the job. G. M. Van Lear. il Factory Management 100:118-20 S '42

Simplified copper wire calculations; reference sheet. L. Tulauskas. Electronics 15:75-6 O '42

ELECTRIC wiring, Interior

Check wiring and transformer loadings to maintain production; industrial plant equipment. R. G. Hardy. il diags Elec W 117:2059-61 Je 13 '42

Economics of installation planning; consideration of wiring problems in large stores and office buildings. H. M. Winstanley. Electrician 127:348-9 D 19 '41

Electrical Acme; electric wiring installed in cellular steel floor of brewery. il Elec West 88:42 Mr '42

House wiring made easy; a practical, clearly written, easily understood guide for the householder and handy man. J. J. Smith. 92p $1 Drake '42

How to conserve vital materials in industrial distribution systems. R. B. McKinley and L. D. Madsen. il diags Power Pl Eng 46:58-61 Ap '42

ELECTRIC wiring, Interior—*Continued*

Internal distribution problems. G. A. T. Burdett. Electrician 129:439-41 O 23 '42

Plastics competition award to Pierce laboratory, inc. il Mod Plastics 19:64-5 N '41

Post-war domestic installations. W. S. Sholl. Electrician 129:89-91 Jl 24 '42

Power design in defense plants; low-voltage distribution. H. Winte. il diags Elec W 117:805-8 Mr 7 '42

Practical electricity and house wiring. H. P. Richter. new ed 183p $1.50 Drake '41

Same—yet different; wiring, Rincon Annex postoffice, San Francisco. il Elec West 87:46-8 D '41

Secondary networks serve ordnance plants. H. D. James. il diag plan Elec W 118:445-8 Ag 8 '42

Sectional surface wiring system; sections made of molded phenolics. il Mod Plastics 19:35+ D '41

Slumbering sockets; problem of inadequate wiring and outlets. il Elec West 87:37-8 D '41

Total war means all out conservation; plenty of possibilities in wiring. diags plans Arch Rec 91:45-7 Ja '42

Wartime enforcement of the National electrical code; commonsense review of interior wiring standards is required. S. B. Clark. Elec West 88:41-2 My '42

Wartime wiring will cut costs and promote safety; porcelain insulated wiring system saves many tons of steel, copper, rubber. il Am Bld 64:86+ Ap '42

Wiring for our hero's new house; problem. Power Pl Eng 46:96 Ja '42; Solutions. diags 46:100, 102, 104 Mr '42

ELECTRIC workers

Education and training for the electrical industry. H. V. Field. Inst E E J 89 pt 1: 134-7 Mr '42

Electrical man-power; technical officers required: transfer of personnel. Elec R (Lond) 130:632 My 15 '42

Last pie-cutting Westinghouse Electric plan discontinued. Business Week p90-1 Ag 15 '42

Qualified maintenance men; abstract. H. W. Swann. Elec R (Lond) 129:473 O 31 '41

See also

Electric engineers

Electric utilities—Employees

Linemen

Telephone companies—Employees

also International brotherhood of electrical workers

ELECTRICAL association for women

Annual meeting, 17th, London, May 21. Electrician 128:526-8 My 29 '42; Elec R (Lond) 130:697-8 My 29 '42

ELECTRICAL trades commercial travellers' association

Annual luncheon. Electrician 128:114-15 F 13 '42

ELECTRICAL workers, International brotherhood of. See International brotherhood of electrical workers

ELECTRICITY

Benjamin Franklin as a scientist. R. A. Millikan. Franklin Inst J 232:407-23 N '41

Electrical concepts at extremely high frequencies. S. Ramo. il diags Elec Eng 61:461-4 S '42

Getting acquainted with electricity. A. Morgan. 346p $3 Appleton-Century '42

Intermediate electricity. R. W. Hutchinson. 628p 12s 6d University tutorial press, London '41

Matter waves and electricity. C. Lanczos. bibliog Phys R 61:713-20 Je 1 '42

Text-book of electricity and magnetism. G. R. Noakes. 513p bibliog(pvii-viii) 8s 6d Macmillan '41

See also

Armatures

Dielectrics

Electric currents

Electric generators

Electrons

Insulation (electric)

Ionization, Electrolytic

Lightning

Magnetism

Photoelectric cells

Photoelectric effect

Piezoelectricity

Potential, Electric

Radio communication

Radioactivity

Telegraph

Telephone

X rays

also headings beginning Electric and Electro

Dictionaries

Audels new electric science dictionary, defining over 9000 words, terms and phrases used in theoretical and applied electricity. F. D. Graham. 525p, 12p $2 Theo. Audel & co, New York '41

Definitions of electrical terms. 300p $1; Am. standards assn. N.Y. '42; Review, by C. H. Sanderson. Ind Stand 13:114-16 My '42

Dictionary of electrical terms, including electrical communication. S. R. Roget. 4th ed rev & enl 432p $3 Pitman '41

Study and teaching

Suggestions for teaching selected material from the field of electricity. R. Stollberg. 142p bibliog(p127-34) 75c Teachers college '41

Theft

Use old meters to check on diversion. diags Elec W 117:1350 Ap 18 '42

ELECTRICITY, Accidents from

See also

Electric fires

Electricity, Injuries from

ELECTRICITY, Injuries from

Accident prevention; accidents due to electricity, and their causes, during 1941. H. W. Swann. Elec R (Lond) 131:469-70 O 9 '42

Causes of accidents. Elec R (Lond) 130:117-18 Ja 23 '42

Eighteen receive Edison electric institute medals. M. B. Woods. il Edison Elec Inst Bul 10:63-9 F '42

Electric shock induced by lightning stroke. E. C. Starr. Elec Eng 61:227-8 Ap '42

Electrical accidents, 1941. H. W. Swann. Electrician 129:361-4 O 2 '42

Hazards due to electric shock transmitted across discharge spray of compressed carbon dioxide. R. L. Grant. bibliog pls diag U S Bur Mines Rep of Invest 3656:1-7 '42

Location of ground faults on series electrolytic cell systems. V. F. Hanson and F. G. LaViolette. diags Electrochem Soc Trans 82 (preprint 5):65-75 O '42

Safe practices key to combating warm weather electrical hazards. W. R. Smith and D. C. Stewart. Edison Elec Inst Bul 10:179-80 My '42

See also

Electric lines—Safety measures

ELECTRICITY, Static

Detecting the saboteur static electricity in gasoline fires. R. Beach. il diags Elec Eng 61:501-8 O '42

Static electric problems in tires. J. W. Liska and E. E. Hanson. bibliog diags Ind & Eng Chem 34:618-24 My '42

Static electricity. F. B. Silsbee. bibliog U S Nat Bur Stand Circ C438:1-36; pa 10c Supt. of doc. '42

Static electricity and its effect on car radio performance. S. M. Cadwell, N. E. Handel and G. L. Benson. diags News Ed 19:1139-41 O 25 '41; Abstract. Automobile Eng 32:310-12 Ag '42

Static is a dangerous firebug. Nat Safety N 45:96 F '42

ELECTRICITY in air conditioning

Application of electric motors to refrigeration and air conditioning. F. R. Lininger. il Refrig Eng 42:372-4+ D '41

Curtailment of power for comfort air conditioning. W. F. Friend. Refrig Eng 44:7-9+ Jl '42

Electrical developments of 1941; air conditioning and commercial refrigeration. G. Bartlett. il Gen Elec R 45:48-50 Ja '42

Growth of air conditioning in recent years. Edison Elec Inst Bul 10:350 S '42

ELECTRICITY in air conditioning—*Continued*

Industrial air conditioning doubled in 1941 compared with '40, Edison electric institute annual report shows. map Heat & Ven 39:56-8 S '42

See also

Electric fans, Ventilating

ELECTRICITY in mining

Air-cooled transformers solve mine power problem. H. M. Wolflin. il Elec W 118:283 Jl 25 '42

Electrical power, 1941. il Coal Age 47:74-6 F '42

High voltage power distribution underground. A. L. Lee. il diags Min Cong J 28:30-2+ Ap '42

Metering a factor in International minerals & chemical corp.'s phosphate operations; completely electrified mines and plants. J. H. Edwards. il diag plan Eng & Min J 143:43-6 Je '42

Power-factor improvement. M. I. Alimansky and R. E. Insley. il Eng & Min J 143:65 My '42

Practical lightning protection at mine substations. C. C. Ballard. il Min Cong J 27:35-7 D '41

Progress in shovel and dragline electrification. P. McShane. il Min Cong J 28:16-17 O '42

Solution found for mine power problem; air-cooled transformer. H. M. Wolfin. il Elec West 88:42-3 My '42

Southern Phosphate's electric load now 6,500 hp. J. H. Edwards. il Eng & Min J 142:51-3 D '41

Standard wires improve efficiency. Eng & Min J 143:69 O '42

See also

Coal mines and mining—Electric equipment
Coal mines and mining—Power
Electric locomotives, Mine
Mine hoisting, Electric

Safety measures

Big coal-mining hazards; electricity. Coal Age 46:80 D '41

Electrical safeguards and practices in mechanical mining; abstract. J. F. Conrad. Coal Age 46:62 N '41

Electricity in mines; annual report of Safety in mines research board. Electrician 128:90 F 6 '42

Inspection and testing of mine-type electrical equipment for permissibility. L. C. Ilsley, E. J. Gleim and H. B. Brunot. U S Bur Mines Information Circ 7185:1-21, pl 1-6 '41

Provisions that will assure increased safety in operation of mines by electric power. F. W. Richart. Coal Age 47:52-3 Jl '42

See also

Safety lamps, Electric

ELECTRICITY in pest control

Electricity in vermin control. E. Hardy. Electrician 128:99 F 6 '42

ELECTRICITY in refrigeration

Application of electric motors to refrigeration and air conditioning. F. R. Lininger. il Refrig Eng 42:372-4+ D '41

Electrical developments of 1941; air conditioning and commercial refrigeration. G. Bartlett. il Gen Elec R 45:48-50 Ja '42

Heating by reversed refrigeration. R. D. Heitchue. il diags Elec Eng 61:556-60 N '42

Multiple systems or individual units? economy of two common methods; with cost data. J. Elliott. Refrig Eng 44:237-40 O '42

See also

Electricity in air conditioning
Refrigerators, Electric

ELECTRICITY in the home

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Domestic load development; maximum demand and load factor. P. Schiller. Elec R (Lond) 129:509-11 N 7 '41

Domestic thermal load. P. Schiller. Elec R (Lond) 130:9-10 Ja 2 '42

Elasticity of the residential demand for electricity. H. A. Cutler. J Land & Pub Util Econ 17:242-5 My '41; Discussion. 17: 498-503 N '41

Electricity and fuel economy. F. D. Parker. Electrician 128:586-7 Je 12 '42

Evaluation of service in customers' language; lecture and exhibits; Central Hudson gas & electric company program to drive home great value of electric service in the home. D. W. Rosebrugh. il Elec W 117:816-18 Mr 7 '42

Has fuel economy come to stay? F. D. Parker. Electrician 129:357-9 O 2 '42

Housing war workers; use of electricity in Ministry of supply hostels. il Elec R (Lond) 130:715-18 Je 5 '42

Maintaining residential usage by our customers. A. C. Crandall. Edison Elec Inst Bul 10:149-52 Ap '42

Optional-control system of domestic electricity supply. P. Schiller. diags Inst E E J 89 pt 2:170-4; Discussion. 174-84 Je '42

Post-war domestic development. F. D. Parker. Electrician 129:13-14 Jl 3 '42

Post-war domestic installations. W. S. Sholl. Electrician 129:89-91 Jl 24 '42

76.7% of homes electrically lighted. Elec W News ed 118:690 Ag 29 '42

Slumbering sockets; problem of inadequate wiring and outlets. il Elec West 87:37-8 D '41

See also

Electric apparatus and appliances, Domestic
Electric cooking
Electric water heaters
Refrigerators, Electric

Cost

Index numbers of cost of electricity for domestic service and tables of monthly bills for domestic service, commercial light and small power, 1941. 23p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

ELECTRICITY in the petroleum industry

California deep-drilling rig uses direct electric current. L. D. Banderob and P. L. Savage. il diag Oil & Gas J 41:45-6 O 8 '42

Central electrical generating plant designed for 160 wells. H. E. David. il Oil & Gas J 40:74 F 26 '42

Economic use of electric power in petroleum production. W. H. Stueve. Oil & Gas J 40: 38 Ap 9 '42

Power records aid operations. W. H. Stueve. Oil & Gas J 41:33 S 3 '42

Remodeling pumping equipment returns investment quickly. Oil & Gas J 41:51 N 5 '42

See also

Petroleum engineering—Power
Petroleum refineries—Electric equipment
Petroleum refineries—Power

ELECTRICITY in war

See also

Electric utilities—War problems
Electricity supply—War measures

ELECTRICITY on ships. See Ship propulsion, Electric; Ships—Electric equipment

ELECTRICITY on the farm

Effective farm service program based on study of individual needs. Edison Elec Inst Bul 10:351-3 S '42

Electric spraying for orchards. E. Hardy. Electrician 128:615 Je 19 '42

Electric warmer saves little pigs. il Elec W 117:694 F 21 '42

Electrically driven cultivators. il Electrician 129:356 O 2 '42

Electricity and agriculture. H. Greaves. Electrician 128:542 My 29 '42

Electricity and haymaking; drying of grass by artificial heat. il Electrician 129:323-4 S 25 '42

Electricity will help fill freedom's market basket. P. T. Montfort. Edison Elec Inst Bul 10:157-9 Ap '42

ELECTRICITY on the farm—*Continued*

Farm electrification data by states; tabulation. Edison Elec Inst Bul 10:106 Mr '42

Helping the farmer. il Elec R (Lond) 130:229-32 F 20 '42

Hop picking and drying; electrical methods. il Elec R (Lond) 130:461-3 Ap 10 '42

How utilities are aiding farmers to secure maximum food production. Edison Elec Inst Bul 10:99-102+ Mr '42

Mobile demonstration unit aids farmers in maintenance of electrical equipment. C. E. Jeerings. il Edison Elec Inst Bul 10:344+ S '42

New engineering and a new industry; rural-electrification engineering. M. M. Samuels. Elec Eng 61:517-20 O '42

Poultryman is large user of electricity; Kimber poultry breeding farm. L. A. Walker. il Elec West 89:63 Jl '42

Pumping load. Electrician 128:35 Ja 16 '42

Rural electrification and research. A. G. H. Dent. il Electrician 129:189-91 Ag 21 '42

Rural electrification in the United States. B. Stewart. Edison Elec Inst Bul 9:381-6, 409-15, 463-6+ S-N '41

Technical progress during 1941; electro-farming. R. B. Matthews. Electrician 128:62 Ja 30 '42

United States helps put electric power on farms of other Americas. For Comm W 6:30 F 21 '42

Wired help pinch-hitting for hired help; equipping and operating a modern sanitary electric dairy farm. il Elec West 89:49 Ag '42

See also

Electric service, Rural

Cost

Modern electrical dairy farm. A. M. Frost. diag Elec West 88:72 Ap '42

ELECTRICITY supply

Forecasting the demand for electric energy. J. E. Gates. J Land & Pub Util Econ 18:77-81 F '42; Reply. H. F. Jones. 18:228-30; Rejoinder. 230-2 My '42

Statistical method; forecasting electric energy demand and regulating supply. C. C. Lienau. J Land & Pub Util Econ 18:102-5 F '42

Will electric power be a bottleneck? L. Marlio. 67p pa 50c Brookings institution, 722 Jackson pl, Washington, D.C. '42

See also

Electric lighting

Electric lines

Electric plants

Electric power

War measures

Pinch of war is coming. H. Corey. Pub Util 30:531-9 O 22 '42

Power and the war effort; abstract. L. Olds. J Land & Pub Util Econ 18:224-5 My '42

Problems in administering war-time shortages of electric energy. J. E. Gates. J Land & Pub Util Econ 17:477-82 N '41

See also

Daylight saving

Electric utilities—War problems

Lighting—War measures

Arkansas

Links for Arkansas pool win commission approval. Elec W 117:301 Ja 24 '42

Australia

Supply in Australia; report of Perth undertaking for 1941. Electrician 128:333 Ap 10 '42

Boston

Boston blackout load dip like normal noon valley. Elec W News ed 117:738 F 29 '42

Brazil

Brazil's power needs. Elec R (Lond) 131:194 Ag 7 '42

Brisbane, Australia

Brisbane's municipal services. il Elec R (Lond) 130:537-8 Ap 24 '42

California

Power politics; public ownership question in California. R. W. Jimerson. il Elec West 87:27-9 D '41

Southern California Edison, Los Angeles pool power systems for war. Elec W News ed 117:1735 My 23 '42

Canada

Commercial and industrial power use restricted by shortage in Canada. Eng N 129:338 S 10 '42

Curtailment of power in Canada criticized. Paper Tr J 115:18 S 17 '42

Electrical equipment vital to Canada's war effort. D. C. Durland. Roads & Bridges 80:60+ Ja '42

Paper mills stagger operation to release electric power. Pulp & Pa of Can 43:847-8 O '42

Power rationing goes into effect in Canada. Elec W 118:939-40 S 19 '42

Power situation in Canada. Engineering 153:412 My 22 '42

Shortage of power reported in Canada. Eng N 128:584 Ap 16 '42

See also

Hydroelectric plants—Canada

Chicago

Navy turbine orders affect Chicago's power. Elec W News ed 117:739 F 29 '42

Colombia

Increased power production. For Comm W 6:13 Ja 24 '42

Connecticut

FPC authorizes Connecticut tie-in. Elec W News ed 118:533-4 Ag 15 '42

France

News from France. Elec R (Lond) 131:524 O 23 '42

Great Britain

Bulk supplies; effect of 1926 act. J. L. Carr. Elec R (Lond) 130:107-8 Ja 23 '42

Bulk supplies; inequity of existing tariffs. N. Elliott. Elec R (Lond) 129:543-4 N 14 '41

Clyde Valley electrical power co. il Elec R (Lond) 131:323-7 S 11 '42

Coal position; suspended rationing scheme. Elec R (Lond) 130:753 Je 12 '42

Deduction or induction? how to handle statistics. P. Schiller. Elec R (Lond) 131:125 Jl 24 '42

Effect of air raids on British power systems. G. V. Harrap. il Elec Eng 61:231-41 My '42

Electricity and coal. G. Lloyd George. Electrician 128:636-7 Je 26 '42

Electricity and fuel economy. F. D. Parker. Electrician 128:586-7 Je 12 '42

Electricity charges; order with respect to minimum consumption. Electrician 129:371 O 2 '42

Electricity supply statistics. Engineering 154:292 O 9 '42

Fuel economy; effect on electricity supply; abstracts. V. W. Dale. Electrician 129:360 O 2 '42; Elec R (Lond) 131:428 O 2 '42

How the electricity industry is organized. Gas J (Lond) 239:385-6 S 9 '42

Mains development in rural areas. Electrician 129:299-301 S 18 '42

National tariff policy. F. J. Elliott. Elec R (Lond) 130:721-2 Je 5 '42

New life in the land. R. W. Gregory. Inst E E J 89 pt 1:85-8 F '42; Abstract. Electrician 127:237 O 24 '41

Rural amenities; Scott committee's report. Elec R (Lond) 131:269-71 Ag 28 '42

Rural areas; post-war electrical development. H. Greaves. Elec R (Lond) 129:707-8 D 19 '41

Rural electrification now and after the war. il Elec R (Lond) 130:101-3 Ja 23 '42

Rural industry; importance of having electrical facilities available. il Elec R (Lond) 131:165-9 Ag 7 '42

ELECTRICITY supply—Great Britain—*Cont.*

Rural supply problems; abstracts. P. E. Rycroft. Elec R (Lond) 131:520-1 O 23 '42; Electrician 129:443-5 O 23 '42

Scott committee report; electricity and a five year plan. Electrician 129:197-8 Ag 21 '42

Supply in war-time; electricity commissioners' statistics for 1939-40. Electrician 129:348-9 O 2 '42; Elec R (Lond) 131:420 O 2 '42

Supply industry's future; abstract. C. C. Hodges. Elec R (Lond) 131:521-2 O 23 '42

Hartford, Connecticut

Gas-filled cable meets urgent load situation. il diags Elec W 116:2042-4 D 27 '41

Hongkong

Electricity in Hong Kong. C. A. M. Smith. il Elec R (Lond) 130:135-6 Ja 30 '42

India

Indian supply conditions. G. O. McLean. Elec R (Lond) 131:126 Jl 24 '42

Madras plant problem. Elec R (Lond) 130:278 F 27 '42

Ireland

Difficulties in Eire; Board's report for 1941-42. Elec R (Lond) 131:175 Ag 7 '42

Fuel problems in Eire. Economist 143:270-1 Ag 29 '42

Power developments in Ireland. J. A. Kenny. Inst E E J 89 pt 1:102-3 F '42

Supply in Eire; abstract. J. C. Costello. Elec R (Lond) 130:435 Ap 3 '42

Supply in Eire; report of Electricity supply board for year ended March 31. Electrician 129:136-7 Ag 7 '42

Lansing, Michigan

Municipal and utility join in defense link; Lansing, Mich. and Consumers power company agree upon interconnection. Elec W News ed 116:1785 D 6 '41

Madagascar

Electricity in Madagascar. il Elec R (Lond) 131:424 O 2 '42

Maine

Maine getting ready to ration electricity if necessary. F. E. Southard. Pub Util 30:547-50 O 22 '42

Netherlands Indies

Engineer in the East Indies. C. A. M. Smith. il map Engineer 173:218-19+ Mr 13 '42

New England

New England utilities form coordination group. Elec W News ed 118:853 S 12 '42

Power outlook for New England. S. Ferguson. Edison Elec Inst Bul 10:359-60 O '42; Same cond. Elec W News ed 118:1188-9 O 10 '42

New Jersey

Wartime electric-system planning. R. G. Hooke and E. C. Plant. Elec Eng 61:192-6 Ap '42

New York (city)

Mayor LaGuardia asks New York to buy Staten Island Edison. Elec W 118:778 S 5 '42

New Zealand

New Zealand topics. il Elec R (Lond) 130:22-3 Ja 2 '42

Northwestern states

Grand Coulee and Bonneville power in the national war effort. V. M. Murray. J Land & Pub Util Econ 18:134-9 My '42

Northwest utility operating coordination; interconnected network meets dry-year emergency. L. B. Cowgill. Elec West 88:51-4 Ap '42

Power pool; Pacific Northwest's electric utilities banded together in supersystem. Business Week p14 O 17 '42

War-time cuts Northwest peak 10%; daily load composite of eight utilities. L. Weiner. Elec W 117:1888 My 30 '42

Oklahoma

Systematized surveys reveal network load conditions; Oklahoma gas & electric company. R. W. Coursey. diags Elec W 116:1712-14+ N 29 '41

Penang

Electricity in Penang; annual report of the Electricity supply department. Electrician 127:281 N 14 '41

Portugal

Portugal's supply of electricity, 1940. For Comm W 8:27 S 19 '42

Supply in Portugal. Elec R (Lond) 131:10 Jl 3 '42

Quebec (province)

Power-plant expansion in Canada. For Comm W 9:26 N 7 '42

Russia

Electricity and coal. Economist 143:49 Jl 11 '42

Shanghai

Bombs fail to cripple Shanghai power. W. Hunter and F. M. Young. il Elec W 117:1652-5 My 16 '42

Short-cuts to service restoration after bombing. W. Hunter. diags Elec W 118:438-40 Ag 8 '42

Some problems encountered on a distribution system, with special reference to Shanghai. V. Sia. il diags Inst E E J 89 pt 2:143-52 Ap '42

South Africa

Electricity in South Africa. H. J. Choles. Electrician 129:188 Ag 21 '42

South African electricity supply commission annual report. Engineer 172:281-2 O 24 '41

War effects in South Africa. Elec R (Lond) 129:477-8 O 31 '41

Southeastern states

Experience of utilities in power shortage control. Elec W 117:483-5 F 7 '42

Field experience with effective power rationing. C. A. Collier. charts Edison Elec Inst Bul 10:175-8 My '42

Pattern being set for handling power shortage. G. E. Doying, jr. map Elec W 116:1576-7+ N 15 '41

Power reprieve. il Business Week p30 N 15 '41

Power turned on. Business Week p28 D 13 '41

Southern states

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:26-7 Ja '42

Southwestern states

WPB developed own plan for pooling power. Elec W News ed 117:2154 Je 20 '42

Switzerland

Land of electricity? Economist 142:430-1 Mr 28 '42

Sydney, New South Wales

Supply in Sydney. Elec R (Lond) 129:409 O 17 '41

Supply in Sydney; review of 1941. Electrician 129:352 O 2 '42; Elec R (Lond) 131:435 O 2 '42

Tasmania

See also
Hydroelectric plants—Tasmania

Tennessee valley

Emergency program of the TVA. T. B. Parker. il map Eng N 127:866-70 D 18 '41

Progress of TVA power program. H. Wiersema. il map Civil Eng 12:77-80 F '42

TVA capacity now 1,043,670 kw; abstract. R. A. Hopkins. Power 86:150c-150d F '42

ELECTRICITY supply—Tennessee valley—*Continued*

TVA'S war might; system is engaging in manufacture of munitions. map Business Week p24, 27 Ap 11 '42

TVA's wartime program. C. H. Vivian. il diags map Comp Air M 47:6698-704 Ap '42

Toronto

Toronto hydro-electric system; report for 1941. Electrician 129:254 S 4 '42

United States

Aluminum output reaches for new power. T. N. Sandifer. Pub Util 29:490-4 Ap 9 '42

Can off-peak power be used in chemical industries? C. G. Fink. Elec W 116:1559+ N 15 '41

Coal, petroleum, natural gas, and electricity in the United States, 1929-40. J. R. Bradley. U S Bur Mines Information Circ 7189: 1-26 '41

Continued construction of power projects urged. A. Fortas. Elec W News ed 118: 1351 O 24 '42

Distribution systems in wartime. T. R. Tate. Elec Eng 61:445-6 Ag '42

Early to bed, early to rise, to save power for defense. A. Barnes. Pub Util 29:354-8 Mr 12 '42

Ebasco plan would utilize idle capacity; interconnection of all the country's industrial and municipal plants. Elec W News ed 118:535-6 Ag 15 '42

Electric power generation in wartime. il map Power Pl Eng 46:62-7 My '42

Electric power requirements and supply. Survey of Cur Business 21:7-9 N '41

Entering the seventh decade of electric power. C. E. Neil. Edison Elec Inst Bul 10:321-32 S '42

Have we power to do the job? H. M. Bratter. Pub Util 29:399-408 Mr 26 '42

Idle electric generating capacity; put it to work in war production. Edison Elec Inst Bul 10:249-55+ Jl '42

If juice runs low; WPB ready to promulgate cover-all order. Business Week p14 Ap 25 '42

Integration studies prompted by war needs. Pub Util 30:442-5 S 24 '42

Large power development program advocated by Brookings institution. Steel 111:39 Jl 27 '42

Less spare power. Business Week p24 Mr 7 '42

Mobilizing kilowatts for war. J. A. Krug. il Elec Eng 61:126-31 Mr '42

NAM surveys electric power, transportation for defense program. Comm & Fin Chr 154:1228 N 27 '41

New electric-power capacity curtailed to 5,500,000 kw. Elec Eng 61:539-40 O '42

Output, 1941. Elec W 117:260-8 Ja 24 '42

Power and the war effort; abstracts. L. Olds. Power Pl Eng 46:97-8 My '42; Eng N 128: 590 Ap 16 '42

Power enough to do the job; abstract. S. Ferguson. Pub Util 29:831-2 Je 18 '42

Power expansion program cut in WPB order. Elec W News ed 118:683-4 Ag 29 '42

Power for defense. L. Olds and others. il maps Elec Eng 61:3-24 Ja '42

Power industry supports general defense. W. H. Hillyer. Barron's 22:8 Je 15 '42

Power shortage bogey again. Pub Util 30: 237-8 Ag 13 '42

Power teamwork for victory. il diags plans map Power 86:615-46 S '42

President approves WPB control of war power supply. Pub Util 29:764-6 Je 4 '42

Regional integration; suggested plan. H. B. Sargent. Elec W 118:605-6 Ag 22 '42

Relation of large scale production to certain costs of electric utilities in the United States; determination of an optimum size. H. F. Jones. J Land & Pub Util Econ 18: 36-46 F '42

Sees power restriction need; abstract. L. Olds. Pub Util 29:834-5 Je 18 '42

Vast power resource lies unused; off-peak power. F. R. Innes. Elec W 116:1556-9+ N 15 '41

WPB announces restrictions on power plant expansions. Pub Util 30:376-9 S 10 '42

WPB fixes capacity expansion for duration. Elec W 118:297 Jl 25 '42

WPB gets full authority over power supply. Elec W 117:1515 My 2 '42

WPB plans added 24-hour loads on generators; new aluminum and magnesium production program. Elec W 117:823-4 Mr 7 '42

W.P.B. set to handle power shortages. Mech Eng 64:508 Je '42

War-time power rationing machinery set up by WPB. Elec W 117:1513-14 My 2 '42

Will there be enough power for defense? L. R. Olds. Power 86:30-2; Discussion (Coordination with cooperation). S. A. Tucker. 33 Ja '42

See also

Hydroelectric plants—United States

Wales

Cardiff electricity undertaking, 1891-1941. E. Jones. Inst E E J 89 pt 1:94-7 F '42

Wellington, New Zealand

Supervisory remote control for Wellington. E. M. S. McWhirter and H. J. Ward. il Engineer 174:116-18 Ag 7 '42

Western states

This year of war; statistical data. il Elec West 88:41-3 F '42

ELECTROACOUSTICS

Acoustic design charts. F. Massa. 228p $4 Blakiston '42

Electrical and mechanical analogies. W. P. Mason. diags Bell System Tech J 20:405-14 O '41

Electromechanical transducers and wave filters. W. P. Mason. 333p $5 Van Nostrand '42

Radio progress during 1941. bibliog (29 titles) Inst Radio Eng Proc 30:70-1 F '42

See also

Amplifiers, Vacuum tube
Microphones
Phonograph
Radio engineering
Sound—Recording and reproducing

ELECTROCAPILLARITY

Dropping mercury electrode in acetic acid; electrocapillary curves and the theory of maxima. G. B. Bachman and M. J. Astle. bibliog Am Chem Soc J 64:2177-81 S '42

Thermodynamic theory of electrocapillarity. D. C. Grahame and R. B. Whitney. bibliog Am Chem Soc J 64:1548-52 Jl '42

ELECTROCARDIOGRAPH. See Cardiograph

ELECTROCHEMICAL analysis

Apparatus for rapid methods of alloy analysis. R. H. Powell. il Chem Age (Lond) 46: 211 Ap 25 '42

Chemical analysis. H. J. S. Sand. il Elec R (Lond) 131:297-300, 328-30 S 4-11 '42

Determination of aluminum in manganese and aluminum bronzes using the mercury cathode cell. A. C. Holler and J. P. Yeager. bibliog il Ind & Eng Chem Anal ed 14:719-20 S 15 '42

Electro-chemical analysis. R. H. Powell. il diag Elec R (Lond) 130:81-4, 109-11 Ja 16-23 '42

Electrolytic determination of iron; a modified Moore method. W. H. Armistead, jr. Ind & Eng Chem Anal ed 14:207-9 Mr 15 '42

Electrolytic separation of radioactive iron from the blood. J. F. Ross and M. A. Chapin. diag R Sci Instr 13:77-80 F '42

Mercury cathode method for determining small amounts of titanium and similar metals in alloys. M. H. Steinmetz. diag Ind & Eng Chem Anal ed 14:109 F 15 '42

Platinum electrodes for electrolytic analysis. J. C. Chaston and H. W. Webb. il Soc Chem Ind J 61:145-8 S '42

Rapid quantitative electrolytic methods of analysis. G. W. Slomin. 3d ed 40p bibliog(p38) pa $1 E. H. Sargent & co, Chicago '41

See also

Electrographic analysis

ELECTROCHEMICAL industries

On this we build; the foundations of the chemical industry in western New York. F. L. Koethen. il Chem & Eng N 20:949-52 Ag 10 '42

Salt-consuming industries of Niagara Falls. J. Searles. bibliog il map Chem & Eng N 20:997-1002 Ag 25 '42

See also
Electrochemistry
Electrometallurgy
Electroplating

Power

Can off-peak power be used in chemical industries? C. G. Fink. Elec W 116:1559+ N 15 '41

Electric equipment for large electrochemical installations. T. R. Rhea and H. H. Zielinski. bibliog il diags Elec Eng 61:Trans 733-41 O '42

Ignitron rectifiers in industry. J. H. Cox and G. F. Jones. bibliog il diags Elec Eng 61:Trans 713-18 O '42

ELECTROCHEMICAL society

Abstracts of technical papers presented at spring meeting. Metal Finishing 40:297-300 Je '42

Annual meeting, Nashville, April 15-18. Science 95:474-5 My 8 '42

ELECTROCHEMISTRY

Electrochemical properties of mineral membranes. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61, 325-34 Ja-F '42

Electrochemical properties of mineral membranes; beidellite membranes and the determination of sodium. C. E. Marshall and C. A. Krinbill. bibliog Am Chem Soc J 64:1814-19 Ag '42

Electrochemical society; abstracts of technical papers presented at spring meeting. Metal Finishing 40:297-300 Je '42

Electrochemical society fall meeting; abstracts of technical papers. Metal Finishing 40:591-3 N '42

Electrochemistry of baths of fused aluminum halides; aluminum as a reference electrode. R. G. Verdieck and L. F. Yntema. bibliog diag J Phys Chem 46:344-52 Mr '42

Electrochemistry of baths of fused aluminum halides; the deposition potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42

Introduction to electrochemistry. S. Glasstone. 557p $5 Van Nostrand '42

Mercury-arc rectifiers for electrochemical installations. T. R. Rhea. il diag Chem Ind 49:814-17 D '41

Phosphorus furnace reactions. C. P. Zergiebel and J. W. Lucas. Electrochem Soc Trans 81 (preprint 30):439-44 Ap '42; Same. Can Chem & Process Ind 26:519-21 S '42

Principles of microelectrophoresis cells. M. R. Thompson. bibliog diags Electrochem Soc Trans 81 (preprint 27):405-22 Ap '42

See also
Electric batteries
Electric precipitation
Electrochemical analysis
Electrochemical industries
Electrodeposition of metals
Electrodes
Electrolysis
Electrolytes
Electrometallurgy
Electroplating
Ionization, Electrolytic
Metal cleaning, Electrolytic
Oxidation, Electrolytic
Reduction, Electrolytic
Storage batteries

Bibliography

Recent periodical literature. Published in monthly numbers of Bulletin of Electrochemical society

History

Pioneering in electrochemistry. R. A. Witherspoon. il Can Chem & Process Ind 26:395-400 Jl '42

Patents

Patents of interest to electrochemists. F. W. Dodson. Published in monthly numbers of Bulletin of Electrochemical society

ELECTRODEPOSITION of metals

Controlled electrodeposition; abstract. C. W. Caldwell and others. Can Chem & Process Ind 26:583 O '42

Determination of copper and nickel in steels; determination of copper by electrodeposition and nickel by cyanide titration. L. Silverman, W. Goodman and D. Walter. Ind & Eng Chem Anal ed 14:236-7 Mr 15 '42

Electrochemistry of baths of fused aluminum halides; aluminum as a reference electrode. R. G. Verdieck and L. F. Yntema. bibliog diag J Phys Chem 46:344-52 Mr '42

Electrochemistry of baths of fused aluminum halides; the deposition potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42

Electrodeposition of the metals of the platinum group. K. Schumpelt. bibliog Electrochem Soc Trans 80 (paper 40):549-58 O '41; Same. Metal Finishing 40:405-8 Ag '42

Future of electroforming; manufacturing wire screen. L. A. Rich. J Chem Educ 19:386+ Ag '42

Influence of operating conditions on the electro deposition of iron sheets; abstract. F. Muller and O. Witnes. Metals & Alloys 15:466+ Mr '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; electrodeposition of manganese. D. Schlain. pl U S Bur Mines Rep of Invest 3651:1-28 '42

Metal coatings on non-conducting materials. S. Wein. il Metal Finishing 39:666-72; 40:24-5 D '41-Ja '42

Theory of the potential and the technical practice of electrodeposition; the two-dimensional rectangular enclosures. C. Kasper. diags Electrochem Soc Trans 82 (preprint 4):33-64 O '42

See also
Electrometallurgy
Electroplating

ELECTRODES

Applications of bipolarity in plating. F. K. Savage. diags Metal Finishing 40:524-6 O '42

Arc cathodes of low current density at high amperage. J. Slepian, W. E. Berkey and M. J. Kofoid. il diags J Ap Phys 13:113-16 F '42

Cathode drop of an arc. G. H. Fett. bibliog diag Welding J 21:sup27-9 Ja '42; Same cond. J Ap Phys 12:436-8 My '41

Continuous-reading electronic voltmeter for use with glass and other high-resistance electrode systems. C. J. Penther, F. B. Rolfson and L. Lykken. bibliog il diags Ind & Eng Chem Anal ed 13:831-4 N 15 '41

Current induced in an external circuit by electrons moving between two plane electrodes. R. Kompfner. Wireless Eng 19:52-5 F '42

Cutter for spectroscopic electrodes. E. S. Hodge. diag Ind & Eng Chem Anal ed 14:260 Mr 15 '42

Dissolved oxygen recordings with the dropping mercury electrode. R. S. Ingols. bibliog il Ind & Eng Chem Anal ed 14:256-8 Mr 15 '42

Electric arc furnace; arc electrodes. T. F. Wall. diags Engineer 174:216-18 S 11 '42

Electrode shaping to establish a uniform electric field along high voltage resistors. P. Shallcross. diags Franklin Inst J 233:471-84 My '42

Elimination of errors due to electrode polarization in measurements of the dielectric constants of electrolytes. T. M. Shaw. bibliog il diags J Chem Phys 10:609-17 O '42

Ground electrodes installation methods. J. R. Eaton. il diag Elec W 116:1587 N 15 '41

Improved electrostatic separation; development of the rotating electrode. diags Chem Age (Lond) 45:210 O 18 '41

ELECTRODES—*Continued*

Large scale extraction of polonium from active lead and formation of radioactive electrode alloys. J. H. Dillon and J. N. Street. bibliog il J Ap Phys 13:189-98 Mr '42

Longer life from salt-bath electrodes. R. L. Pegram. diag Am Mach 86:882-3 Ag 20 '42

Measurement of pH. T. T. Baker. il diags Elec R (Lond) 129:425-8 O 24 '41

Molal electrode potential of the silver-silver chloride electrode in ethyl alcohol-water mixtures. A. Patterson and W. A. Felsing. bibliog Am Chem Soc J 64:1478-80 Je '42

Multiple electrode high voltage arc for spectrographic analysis. W. D. Owsley and R. C. McReynolds. il diag R Sci Instr 13:342-5 Ag '42

Null methods applied to corrosion measurements. J. M. Pearson. diags Electrochem Soc Trans 81 (preprint 21):317-40 Ap '42

Oxidation of cerous sulfate at a rotating anode. J. L. Culbertson and C. Rutkowski. Electrochem Soc Trans 81 (preprint 3):27-32 Ap '42

Perborate formation at a rotating anode. J. L. Culbertson and W. C. Teach. Electrochem Soc Trans 81 (preprint 4):33-9 Ap '42

Platinum electrodes for electrolytic analysis. J. C. Chaston and H. W. Webb. il Soc Chem Ind J 61:145-8 S '42

Potential of the ytterbic-ytterbous ion electrode. H. A. Laitinen. bibliog Am Chem Soc J 64:1133-5 My '42

Practical aspects of earthing. E. Fawssett and others. Inst E E J 87:357-90 O '40; Discussion. 87:391-400 O '40; 89 pt 2:165-7 Ap '42

Purification of spectrographic carbons. R. Zietlow, P. Hamm and R. C. Nelson. Science 94:438 N 7 '41

Standard potential of the silver-silver bromide electrode in anhydrous methanol at 25°. E. W. Kanning and A. W. Campbell. bibliog Am Chem Soc J 64:517-19 Mr '42

Studies on overvoltage; a study of hydrogen decomposition potentials under various conditions in acid solutions at platinized platinum electrodes. A. L. Ferguson and M. B. Towns. bibliog Electrochem Soc Trans 82 (preprint 26):301-17 O '42

Studies on overvoltage; decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. A. L. Ferguson and M. B. Towns. diags Electrochem Soc Trans 82 (preprint 25): 285-99 O '42

Studies on overvoltage; long time charge and decay phenomena. A. L. Ferguson and H. Bandes. il Electrochem Soc Trans 81 (preprint 11):123-34 Ap '42

Studies on overvoltage; some unusual overvoltage phenomena. A. L. Ferguson and H. Bandes. bibliog il diags Electrochem Soc Trans 81 (preprint 10):105-22 Ap '42

See also

Cathodes
Electric welding—Electrodes
Electric welding, Arc—Electrodes
Electrographic analysis
Electrolysis
Electronics
Overvoltage
Potential, Electric
Vacuum tubes
X ray tubes

ELECTRODES, Dropping mercury. See Polarography

ELECTRODES, Glass

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34: 920-4 Ag '42; Same. Metal Finishing 40: 527-31 O '42

Glass electrode as a reference electrode in electrometric titrations. L. Lykken and F. D. Tuemmler. bibliog il Ind & Eng Chem Anal ed 14:67-9 Ja 15 '42

Glass electrode measurements of the pH of chromic acid solutions. W. H. Hartford. bibliog Ind & Eng Chem Anal ed 14:174-6 F 15 '42

ELECTRODIAGNOSIS

Electrocardiography in practice. A. Graybiel and P. D. White. 319p $6 Saunders '41

ELECTRODIALYSIS. See Dialysis

ELECTRODYNAMICS

Generalized electrodynamics; non-quantum. B. Podolsky. Phys R 62:68-71 Jl 1 '42

See also

Electric conductivity
Electric currents
Electricity
Inductance

ELECTROFORMING. See Electrodeposition of metals

ELECTROGALVANIZING. See Galvanizing

ELECTROGRAPHIC analysis

Electrographic analysis. E. A. Arnold. il Steel 110:74-6 Ap 20 '42

Fingerprinting metals. Franklin Inst J 233: 95-6 Ja '42

Rapid detection of gold by the electrographic method. J. A. Calamari, R. Hubata and P. B. Roth. bibliog Ind & Eng Chem Anal ed 14:535 Jl 15 '42

ELECTROHORTICULTURE

Electro-horticulture; particulars of two successful installations in Australia. Electrician 128:184 Mr 6 '42

ELECTROLYSIS

Direct current conversion equipment in the electrochemical industry. L. H. Fletemeyer. il Electrochem Soc Trans 81 (preprint 32):455-68 Ap '42

Efficiency of the electrolytic separation of chlorine isotopes. H. L. Johnston and D. A. Hutchison. bibliog diag J Chem Phys 10: 469-72 Jl '42

Electrolysis of Grignard reagents; short-lived free radicals in ethyl ether. R. Pearson and W. V. Evans. bibliog Electrochem Soc Trans 82 (preprint 23):257-64 O '42

Electrolysis of rare earth acetates and the separation of europium as amalgam from other rare earths. H. N. McCoy. bibliog Am Chem Soc J 63:3432-3 D '41

Electrolytic decomposition of aqueous ammonium chloride solutions. C. B. F. Young and E. G. Lundstrom. il diag Electrochem Soc Trans 81 (preprint 33):469-77 Ap '42

Electrolytic determination of iron; a modified Moore method. W. H. Armistead, jr. Ind & Eng Chem Anal ed 14:207-9 Mr 15 '42

Electrolytic preparation of ethyl glyoxylate. W. Oroshnik and P. E. Spoerri. Am Chem Soc J 63:3338-9 D '41

Electrolytic sodium chlorate; preparation from aqueous sodium chlorid. S. S. Joshi and K. Srinivasan. Chem Age (Lond) 46:305 Je 20 '42

Electrolytic study of linear diffusion of silver salts. H. A. Laitinen. bibliog Electrochem Soc Trans 82 (preprint 9):101-8 O '42

Oxidation of raw starch granules by electrolysis in alkaline sodium chloride solution. F. F. Farley and R. M. Hixon. bibliog il Ind & Eng Chem 34:677-81 Je '42

Perborate formation at a rotating anode. J. L. Culbertson and W. C. Teach. Electrochem Soc Trans 81 (preprint 4):33-9 Ap '42

Preparation of fluorine. G. H. Cady, D. A. Rogers and C. A. Carlson. bibliog diags Ind & Eng Chem 34:443-8 Ap '42

See also

Electrochemical analysis
Electrodeposition of metals
Electrodes
Electrolytes
Electrolytic corrosion
Metal cleaning, Electrolytic
Oxidation, Electrolytic
Reduction, Electrolytic

ELECTROLYTES

Anomalous electroreduction of water at the dropping mercury electrode in relatively concentrated salt solutions. E. F. Orlemann and I. M. Kolthoff. bibliog diag Am Chem Soc J 64:833-8 Ap '42

Apparent molal volumes of aqueous solutions of sulfuric acid at 25°. I. M. Klotz and C. F. Eckert. Am Chem Soc J 64:1878-80 Ag '42

Apparent volumes of individual ions in aqueous solution. K. Fajans and O. Johnson. bibliog Am Chem Soc J 64:668-78 Mr '42

ELECTROLYTES—*Continued*

Calculation of the effect of pressure upon ionic equilibria in pure water and in salt solutions. B. B. Owen and S. R. Brinkley, jr. bibliog Chem R 29:461-74 D '41

Calculation of the thermodynamic properties and the association of electrolyte solutions. G. Scatchard and L. F. Epstein. bibliog Chem R 30:211-26 Ap '42

Catalytic effect of electrolytes on solvolytic reactions; reactions between *n*-butylamine and ethyl phenylacetate and between liquid ammonia and ethyl benzoate. L. F. Audrieth, L. D. Scott and O. F. Hill. Am Chem Soc J 64:2498-9 O '42

Concentration of dilute solutions of electrolytes by base-exchange materials. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41

Derivation of a general kinetic equation for reaction between ions and dipolar molecules. E. S. Amis and G. Jaffé. J Chem Phys 10:598-604 S '42

Elimination of errors due to electrode polarization in measurements of the dielectric constants of electrolytes. T. M. Shaw. bibliog il diags J Chem Phys 10:609-17 O '42

Elimination of the water wave in polarographic work at relatively high indifferent electrolyte concentrations. I. M. Kolthoff and E. F. Orlemann. Ind & Eng Chem Anal ed 14:321-3 Ap 15 '42

Influence of electrolytes upon ammonolysis by liquid ammonia. J. F. Lemons and others. bibliog Am Chem Soc J 64:467-8 F '42

Ion-solvent interaction and individual properties of electrolytes. K. Fajans and O. Johnson. bibliog Electrochem Soc Trans 82 (preprint 16):161-75 O '42

Machining aided by chemical reactions; influence of electrolytes on grinding. Iron Age 149:43 Ap 16 '42

Molal volumes of solutes; potassium chlorate and hydrochloric acid. O. Redlich and J. Bigeleisen. bibliog Am Chem Soc J 64:758-60 Ap '42

Molal volumes; thermodynamic properties of electrolytes at infinite dilution. O. Redlich and J. Bigeleisen. bibliog Chem R 30:171-9 Ap '42

Solvent effects on the kinetics of ionic reactions and the choice of the concentration scale. H. G. Davis and V. K. LaMer. bibliog J Chem Phys 10:585-97 S '42

Some heats of dilution and related thermal quantities of aqueous cadmium chloride, bromide, and iodide solutions. A. L. Robinson and W. E. Wallace. bibliog Chem R 30:195-209 Ap '42

Surface tension, liquid density, and vapor density of sulfur dioxide solutions of potassium thiocyanate at 10°, 15°, 20°, and 25°C. W. G. Eversole, G. H. Wagner and G. C. Bailey. bibliog diag J Phys Chem 45:1388-97 D '41

Surface tension of solutions of electrolytes as a function of the concentration; sodium chloride. G. Jones and W. A. Ray. Am Chem Soc J 63:3262-3 D '41

Thermodynamics of bi-univalent electrolytes; the activity coefficients of lead bromide from 5 to 40°. R. G. Bates. bibliog Am Chem Soc J 64:1136-9 My '42

Use of the *h* and *h'* functions in calculating the activity coefficients of strong electrolytes; dependence of the activity and activity coefficient on the concentration units. W. G. Eversole and T. F. Hart. J Phys Chem 46:555-61 My '42

Variation of the transference numbers of sodium chloride in aqueous solution with temperature. R. W. Allgood and A. R. Gordon. J Chem Phys 10:124-6 F '42

See also

Electric batteries
Electric double layer
Electrochemistry
Electrodes
Electrolysis
Ionization, Electrolytic
Solution (chemistry)

Conductivity

Anomalies in conductivity measurements in presence of hydrogen peroxide. M. Bobtelsky and A. E. Simchen. bibliog Am Chem Soc J 64:454-61 F '42

Apparent degree of ionization of hydrochloric, sulfuric, and acetic acids; an electrolytic conductivity experiment for general chemistry. L. E. West and A. Gahler. diag J Chem Educ 19:366-8 Ag '42

Conductance and ionic mobilities for aqueous solutions of potassium and sodium chloride at temperatures from 15° to 45°C. H. E. Gunning and A. R. Gordon. bibliog diags J Chem Phys 10:126-31 F '42

Conductance of potassium iodate at 25° and the mobility of the iodate ion. K. A. Krieger and M. Kilpatrick. bibliog Am Chem Soc J 64:7-9 Ja '42

Conductances of aqueous solutions of the hydroxides of lithium, sodium and potassium at 25°. L. S. Darken and H. F. Meier. bibliog Am Chem Soc J 64:621-3 Mr '42

Conductances of solutions of several alkyl sulfates and sulfosuccinates. F. D. Haffner, G. A. Piccione and C. Rosenblum. bibliog J Phys Chem 46:662-70 Je '42

Conductivity checks prove their value in many processes. Sci Am 166:175-6 Ap '42

Conductivity studies; the limiting equivalent conductances of potassium chloride in water at temperatures between 15 and 40°. N. C. C. Li and H. Fang. Am Chem Soc J 64:1544-7 Jl '42

Conductivity studies; the limiting ionic mobilities of several univalent ions at temperatures between 15 and 45°. N. C. C. Li and W. Brüll. Am Chem Soc J 64:1635-7 Jl '42

Electrical conductivities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p843-9 D '41

Electron tube oscillator for conductance measurements. B. E. Hudson and M. E. Hobbs. diag J Chem Educ 19:147 Mr '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides and acetates of dodecyl- and octadecylamines. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. Am Chem Soc J 64:97-101 Ja '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

Temperature coefficient of the conductance of potassium chloride solutions. A. R. Gordon. Am Chem Soc J 64:2517 O '42

ELECTROLYTIC cells

Current leakage through cascaded cells. Y. S. Tsou. Electrochem Soc Trans 82 (preprint 6):77-88 O '42

Determination of aluminum in manganese and aluminum bronzes using the mercury cathode cell. A. C. Holler and J. P. Yeager. bibliog il Ind & Eng Chem Anal ed 14:719-20 S 15 '42

Electrolytic cell recovers mercury. il Elec W 116:1920 D 13 '41

Electrolytic decomposition of aqueous ammonium chloride solutions. C. B. F. Young and E. G. Lundstrom. il diag Electrochem Soc Trans 81 (preprint 33):469-77 Ap '42

Electrolytic polishing of brass and copper. G. J. Foss, jr. and L. Shiller. il Metal Prog 42:77-9+ Jl '42

Improved cell for electrolytic polishing. O. E. Brown and C. N. Jimison. il diags Metal Prog 40:298-9 S '41; Same abr. Mech Eng 64:140 F '42

Location of ground faults on series electrolytic cell systems. V. F. Hanson and F. G. LaViolette. diags Electrochem Soc Trans 82 (preprint 5):65-75 O '42

ELECTROLYTIC cells—*Continued*

Nomograph for quick solution of efficiency equations of electrolytic alkali and chlorine cells. J. C. Cole. Chem & Met Eng 49:147-8 S '42

See also
Polarographs

ELECTROLYTIC corrosion

Bonding pipe lines as protection against electrolysis. E. E. Claggett. diags Pet Eng (Annual no) 13:128+ [Jl] '42

Electrolytic behavior of ferrous and non-ferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42

See also
Corrosion and anti-corrosives

ELECTROLYTIC ionization. See Ionization, Electrolytic

ELECTROLYTIC metal cleaning. See Metal cleaning, Electrolytic

ELECTROLYTIC oxidation. See Oxidation, Electrolytic

ELECTROLYTIC polishing. See Polishing, Electrolytic

ELECTROLYTIC reduction. See Reduction, Electrolytic

ELECTROMAGNETIC field

Electromagnetic properties of nuclei in the meson theory. S. T. Ma and F. C. Yu. bibliog Phys R 62:118-26 Ag 1 '42

Energy and energy flow in the electromagnetic field. J. Slepian. J Ap Phys 13:512-18 Ag '42

Some aspects of the electromagnetic field. L. Page. bibliog diags Elec Eng 61:511-16 O '42

ELECTROMAGNETIC shielding

Non-metal shieldings; use of colloidal graphite. B. H. Porter. diags Radio N 28:33+ Ag '42

ELECTROMAGNETIC theory

Some aspects of the electromagnetic field. L. Page. bibliog diags Elec Eng 61:511-16 O '42

ELECTROMAGNETISM

Electrical concepts at extremely high frequencies. S. Ramo. il diags Elec Eng 61:461-4 S '42

Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15:34-41+ S '42

Frequency; characteristics of electromagnetic wave propagation undergo continuous changes and call for broader concepts. S. Ramo. diags Gen Elec R 45:557-67 O '42

Joseph Henry, pioneer in electrical science. H. S. Osborne. il Elec Eng 61:550-3 N '42

Joseph Henry, pioneer in space communication. W. F. Magie. il Inst Radio Eng Proc 30:261-6 Je '42

M.K.S. system; simplifying electro-magnetic measurement. R. O. Kapp. Elec R (Lond) 129:737-9 D 26 '41

Practical radio course; magnetism produced by current. A. A. Ghirardi. il diags Radio N 28:36-7 Ag '42

ELECTROMAGNETS

Detecting tramp iron on belt. il Eng & Min J 143:71 My '42

Electro-magnetic nail pickup. Eng N 129:445 S 24 '42

Saving tires with street-clearing magnet. il Mass Transportation 38:80 Mr '42

Unexpected results from salvage drive; electromagnet picks up iron and steel. Mach 49:144 S '42

See also
Armatures
Lifting magnets

Cooling

Cooling an atom smasher. il Dom Eng 159:67+ F '42

ELECTROMETALLURGY

Calcium metal production, a new American industry. A. B. Kinzel. il Min & Met 22:488-90 O '41; Abstract. Metal Prog 41:574+ Ap '42

Current leakage through cascaded cells. Y. S. Tsou. Electrochem Soc Trans 82 (preprint 6):77-88 O '42

Electric equipment for large electrochemical installations. T. R. Rhea and H. H. Zielinski. bibliog il diags Elec Eng 61:Trans 733-41 O '42

Electrical developments of 1941; chemical industry; aluminum and magnesium. G. Bartlett. il Gen Elec R 45:31-3 Ja '42

Electrometallurgy, 1941. A. A. Center. Eng & Min J 143:93-4 F '42

Magnesium by electrothermic reduction. H. A. Doerner. il Min Cong J 28:35-7+ Ja '42

Progress reports, Metallurgical division; Electrometallurgical section. R. S. Dean. flow sheets pl U S Bur Mines Rep of Invest 3600:38-47 '41

Progress reports, Metallurgical division; magnesium by electrothermic reduction. H. A. Doerner and others. pls U S Bur Mines Rep of Invest 3635:1-47 '42; Excerpts. Chem & Met Eng 49:85-6 Ag '42

Why are we short of aluminum? huge quantities of electricity needed. H. W. Roberts. il diag Sci Am 166:232-4 My '42

See also
Copper metallurgy—Electrometallurgy
Electric furnaces, Metallurgical
Electrodeposition of metals
Electroplating
Magnetic separation of ores
Steel metallurgy—Electrometallurgy

ELECTROMOTIVE force. See Potential, Electric

ELECTRON accelerator

Hundred-million volt X-rays to give scientists new tool. il Product Eng 13:668-9 N '42

Induction accelerator at University of Illinois. Science 95:12 Ja 2 '42

New induction accelerator generating 20 Mev. D. W. Kerst. Phys R 61:93-4 Ja 1 '42

100-million volts to extend radiography. il Iron Age 150:51 S 24 '42; Steel 111:166 S 14 '42

Progress on the construction of a hundred million volt electron accelerator. Science 96:224 S 4 '42

Rheotron, a new electronic tool. il Electronics 15:22-3 F '42

Rheotron, an important new research tool. il Steel 110:78 Je 15 '42

Rheotron or induction accelerator. T. H. Osgood. Electronics 15:76+ Jl '42

20-million electron-volt betatron or induction accelerator. D. W. Kerst. il diags R Sci Instr 13:387-94 S '42

20,000,000-volt electrons; rheotron, announced by the General electric research laboratory. Mech Eng 64:307 Ap '42

Twenty million volt rheotron. il Power Pl Eng 46:80-1 Ag '42

ELECTRON bombardment

Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41

Ionization and dissociation by electron impact: normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42

ELECTRON counters. See Counters (electrons, ions, etc.)

ELECTRON diffraction cameras. See Cameras, Electron diffraction

ELECTRON gun

Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41

Factors governing performance of electron guns in television cathode-ray tubes. R. R. Law. bibliog diags Inst Radio Eng Proc 30:103-5 F '42

ELECTRON lenses. See Electron optics

ELECTRON microscope

Application of the electron microscope to problems of the pulp, paper, and paperboard industry. G. R. Sears and E. A. Kregel. bibliog il diags Paper Tr J 114:43-9 Mr 19 '42; Same cond. Paper Ind 24:764+ O '42

Carbon black studies with the electron microscope; abstract. H. Heering, I. von Gizycki and A. Kirseck. Chem & Met Eng 49:180 F '42

Colloidal carbon as revealed by the electron microscope. W. B. Wiegand and W. A. Ladd. il Rubber Age 50:431-6 Mr '42

Diffraction adapter for the electron microscope. J. Hillier, R. F. Baker and V. K. Zworykin. il diags J Ap Phys 13:571-7 S '42

Discussion of the fundamental limit of performance of an electron microscope. J. Hillier. Phys R 60:743-5 N 15 '41

Electron and optical microscope interpretation of the wall of pleurosigma angulatum. D. H. Hamly and J. H. L. Watson. bibliog il diags Opt Soc Am J 32:433-42 Ag '42

Electron microscope. R. B. Barnes and C. J. Burton. il diags Am Dyestuff Rep 31:254-62 My 25 '42; Correction. 31:313-14 Je 22 '42

Electron microscope. E. F. Burton and W. H. Kohl. 233p bibliog(p227-8) $3.85 Reinhold pub. corp. '42

Electron microscope in metallurgy. F. T. Sisco. il Min & Met 23:430-1 Ag '42

Electron microscope observations of collagen. C. E. Hall, M. A. Jakus and F. O. Schmitt. il Am Chem Soc J 64:1234 My '42

Electron microscope study of surface structure. R. D. Heidenreich and V. G. Peck. bibliog il Phys R 62:292-3 S 1 '42

Electron microscope used as a diffraction camera; abstract. J. Hillier, R. F. Baker and V. K. Zworykin. Science 96:sup12 Jl 3 '42

Electron microscopes. Metal Prog 41:430+ Mr '42

Electron reflections in MgO crystals with the electron microscope. R. D. Heidenreich. il Phys R 62:291-2 S 1 '42

Films of thickness tenth length of yellow light waves found best for showing metal details in electron microscope. Blast F & Steel Pl 30:876 Ag '42

Further electron microscope studies on colloidal carbon and the role of surface in rubber reinforcement. W. B. Wiegand. Can Chem & Process Ind 25:579-81 N '41; Same. India Rubber W 105:270-2 D '41

How to get the best results with electron microscopes; films five-hundred thousandth of an inch thick for revealing details of metal surfaces. Comp Air M 47:6822 Ag '42

Metallurgical studies with the electron microscope; abstract. V. K. Zworykin, J. Hillier and R. L. Snyder. Science 96:sup8 Jl 10 '42

Microscope reveals secrets of important metal alloys; abstract. D. Harker. Blast F & Steel Pl 30:sup44 Ap '42

National research council's committee on the applications of the electron microscope. Science 95:348-9 Ap 3 '42

New electron microscope; abstract. V. K. Zworykin, J. Hillier and R. L. Snyder. Metals & Alloys 16:352+ Ag '42

New electron microscope technique broadens studies of grain structure of metals. Franklin Inst J 233:180 F '42

Observation of crystalline reflections in electron microscope images. J. Hillier and R. F. Baker. il Phys R 61:722-3 Je 1 '42

Orientation of micelles in soap fibers. S. Ross. bibliog J Phys Chem 46:414-17 Mr '42

Plastic films 0.000,002 in. thick for electron microscope; abstract. V. J. Schaefer and D. Harker. Iron Age 150:64 Ag 13 '42

Scanning electron microscope. V. K. Zworykin. il diags Sci Am 167:111-13 S '42

Scanning electron microscope; abstract. V. K. Zworykin, J. Hillier and R. L. Snyder. Inst Radio Eng Proc 30:255 My '42

Scanning microscope; abstract. V. K. Zworykin, J. Hillier and R. Snyder. Electronics 15:70 Ag '42

Snowflakes and metallography; method of making snow crystal replicas used for making films for electron microscope studies. il Mech Eng 64:560-1 Jl '42

Stereoscopic views now possible with electron microscope. V. K. Zworykin and J. Hillier. Sci Am 166:170 Ap '42

Structure and rate of formation of pearlite. R. F. Mehl. il Am Soc for Metals Trans 29:837-45 D '41; Same cond. Iron Age 148:49 O 30 '41; Same cond. Metal Prog 40:762-3 N '41

Surface replicas for use in the electron microscope. V. J. Schaefer and D. Harker. il J Ap Phys 13:427-33 Jl '42

Technique for the electron microscopic examination of encapsulated bacteria. E. A. Kregel and others. Science 94:592 D 19 '41

300-kilovolt electron microscope; abstract. V. K. Zworykin, J. Hillier and A. W. Vance. diag Electronics 14:33 D '41

Ultimate resolving power of the electron microscope. L. I. Schiff. Phys R 61:721-2 Je 1 '42

Variation of the axial aberrations of electron lenses with lens strength. E. G. Ramberg. bibliog J Ap Phys 13:582-94 S '42

Width and origin of bacterial flagella; electron microscope studies. G. Knaysi. Science 95:406-7 Ap 17 '42

ELECTRON multipliers

Amplification by secondary-electron emission in static multipliers; abstract. H. Schnitger. Wireless Eng 19:269-70 Je '42

Behavior of electrostatic electron multipliers as a function of frequency. L. Malter. diags Inst Radio Eng Proc 29:587-98 N '41

Comparison between a Geiger-Mueller counter, a secondary electron multiplier tube, and photographic film for detecting weak X-rays. A. Eisenstein and N. S. Gingrich. bibliog R Sci Instr 12:582-6 D '41

Electronic method of measuring molecular lifetimes. R. D. Rawcliffe. il diags R Sci Instr 13:413-18 O '42

Experimental evidence for the existence of a neutrino. J. S. Allen. bibliog diag Phys R 61:692-7 Je 1 '42

Orbital-beam secondary-electron multiplier for ultra-high-frequency amplification. H. M. Wagner and W. R. Ferris. il diags Inst Radio Eng Proc 29:598-602 N '41

Some simple bases of calculation for the design of multi-stage electron-multipliers; abstract. H. Schnitger. Wireless Eng 19:79-80 F '42

Voltage-controlled electron multipliers. B. J. Thompson. bibliog diags Inst Radio Eng Proc 29:583-7 N '41

ELECTRON optics

Electrostatic electron lenses with a minimum of spherical aberration. G. N. Plass. diags J Ap Phys 13:49-55 Ja '42; Correction. 13:524 Ag '42

Minimizing aberration of electron lenses; abstract. H. Poritsky. Inst Radio Eng Proc 30:252-3 My '42

Some simplified methods of determining the optical characteristics of electron lenses. K. Spangenberg and L. M. Field. bibliog il diags Inst Radio Eng Proc 30:138-44 Mr '42

Variation of the axial aberrations of electron lenses with lens strength. E. G. Ramberg. bibliog J Ap Phys 13:582-94 S '42

See also

Electroacoustics	Television
Electron microscope	Vacuum tubes

ELECTRON tubes. See Vacuum tubes

ELECTRONIC switch. See Vacuum tubes—Control uses

ELECTRONICS

Advances in electronics. Barron's 22:5 Jl 27 '42

Drake's cyclopedia of radio and electronics, a practical reference book. H. P. Manly and L. O. Gorder. 10th ed 937p $5 Drake '42

Electronic differentiation. O. H. Schmitt and W. E. Tolles. diags R Sci Instr 13:115-18 Mr '42; Abstract. Electronics 15:143-5 Je '42

Electronic gadgeteering may replace "hams" interest in communication. C. Golenpaul. Sci Am 167:28 Jl '42

ELECTRONICS—*Continued*

Electronic gadgets for amateur experimenters. R. P. Turner. diags Radio N 27:22-3+ Je '42

Electronics in industry. S. R. Winters. il Radio N 28:26-7+ Ag '42

Electronics of the fluorescent lamp. M. A. Townsend. bibliog diags Elec Eng 61:Trans 607-12 Ag '42

Electronics reference issue. il diags Electronics 15:52-126 Je '42

Glimpse into the miracle electronic world of tomorrow; General Electric's current institutional advertising campaign. L. M. Hughes. il Sales Management 51:18-20 S 15 '42

How science extends our vision. J. Early. Barron's 22:24+ S 21 '42

Plastics in the electronics field; with directory of trade names and suppliers. J. Sasso. il Electronics 15:26-31+ Jl '42

Progress in engineering knowledge during 1941. P. L. Alger. bibliog Gen Elec R 45: 99-100 F '42

Super-electricity; what you can do in electronics. R. F. Yates. 165p $2 Appleton-Century '42

See also

Electron microscope
Electron optics
Electrons
Oscillographs, Cathode ray
Photoelectric cells
Radio engineering
Vacuum tubes

Bibliography

Radio progress during 1941. Inst Radio Eng Proc 30:59-61 F '42

Study and teaching

Electronics and communication courses in American colleges. Electronics 15:84+ S '42

Engineers train for victory; ESMDT courses in electronics, radio communication, and ultrahigh-frequency technique. B. Dudley. il Electronics 15:36-8+ Mr '42

ELECTRONS

Contacts between metals and between a metal and a semiconductor. H. Y. Fan. diag Phys R 62:388-94 O 1 '42

Cosmic-ray electrons of low energy in the atmosphere. B. Rossi and S. J. Klapman. Phys R 61:414-21 Ap 1 '42

Current induced in an external circuit by electrons moving between two plane electrodes. R. Kompfner. Wireless Eng 19:52-5 F '42

Degeneracies among terms of a configuration of equivalent electrons. O. Laporte and J. R. Platt. Phys R 61:305-8 Mr 1 '42

Electron-sharing ability of organic radicals; the effect of the radicals on the ionizing power of organic solvents. F. J. Moore and I. B. Johns. Am Chem Soc J 63:3336-8 D '41

Energy states of solids; evidence from thermal data for the existence of low electronic energy levels in europium ion; the heat capacity of europium sulfate octahydrate from 60 to 300°K. E. A. Long and R. A. Degraff. bibliog Am Chem Soc J 64: 1346-9 Je '42

Free electrons; solid iron and its alloys; abstract. R. Smoluchowski. Gen Elec R 45: 134-5 F '42; Same. Blast F & Steel Pl 30: 273-4 F '42

Ionization of argon and neon by electron impact. D. P. Stevenson and J. A. Hipple. bibliog Phys R 62:237-40 S 1 '42

Mobilities in nitrogen at high current densities. W. H. Bennett. diags Phys R 62:369-71 O 1 '42

Mobilities in some free electron gases. W. H. Bennett and L. H. Thomas. Phys R 62: 41-7 Jl 1 '42

Origin of the soft component of cosmic rays. B. Rossi and K. Greisen. bibliog Phys R 61:121-8 F 1 '42

Photographic action of electrons in the range between 40 and 212 kilovolts. R. F. Baker, E. G. Ramberg and J. Hillier. bibliog il diags J Ap Phys 13:450-6 Jl '42

Transition curves for electron and photon produced showers. N. Nereson. bibliog diag Phys R 61:111-15 F 1 '42

Values of *R* and of *e/m*, from the spectra of H, D and He^+. R. T. Birge. Phys R 60: 766-85 D 1 '41

See also

Atoms
Auger effect
Beta rays
Chemical bonds
Electric discharges
Electron accelerator and other headings beginning Electron
Ionization, Gaseous
Ions
Mesotrons
Neutrons
Photoelectric effect

Capture

Excitation of the anode effect. P. L. Copeland and G. G. Carne. diags Phys R 61:635-42 My 1 '42

Forbidden transitions in β-decay and orbital electron capture and spins of nuclei. R. E. Marshak. bibliog Phys R 61:431-49 Ap 1 '42

Collisions

Cloud-chamber study of collision electrons in equilibrium with mesons. L. Seren. bibliog il diags Phys R 62:204-14 S 1 '42

Proton production by electron collisions in molecular hydrogen. H. F. Newhall. bibliog diags Phys R 62:11-18 Jl 1 '42

Counters

See Counters (electrons, ions, etc.); Geiger-Müller counters

Diffraction

Electron diffraction investigation of propargyl chloride, bromide, and iodide. L. Pauling, W. Gordy and J. H. Saylor. bibliog Am Chem Soc J 64:1753-6 Ag '42

Electron diffraction investigation of the molecular structures of silicon tetrabromide, tribromosilane, and dibromodifluorosilane. R. Spitzer, W. J. Howell, jr. and V. Schomaker. bibliog Am Chem Soc J 64:62-7 Ja '42

Electron diffraction studies on thin films; powder patterns containing anomalies produced by secondary scattering. L. H. Germer. bibliog il Phys R 61:309-12 Mr 1 '42

Habit and orientation in electron diffraction. R. P. Johnson and W. R. Grams. Phys R 62:77-9 Jl 1 '42

Order in the alloy Cu_3Au. L. H. Germer, F. E. Haworth and J. J. Lander. il Phys R 61:93 Ja 1 '42

Order in the alloy Cu_3Au; electron diffraction by transmission method used to investigate superstructure. L. H. Germer, F. E. Haworth and J. J. Lander. il diags Phys R 61:614-26 My 1 '42

Rate of oxidation of copper at room temperature. A. H. White and L. H. Germer. bibliog il Electrochem Soc Trans 81 (preprint 9):91-104 Ap '42; Abstract. Metal Prog 42: 962+ N '42

Secondary scattering of electrons in silicon. R. P. Johnson and W. R. Grams. Phys R 61:671 My 1 '42

Emission from metals

Electron emission of metals in electric fields; the transition from thermionic to cold emission. E. Guth and C. J. Mullin. bibliog Phys R 61:339-48 Mr 1 '42

Emission-regulating circuit for an ionization gauge. R. B. Nelson and A. K. Wing, jr. diags R Sci Instr 13:215-17 My '42

Field emission from tungsten and thoriated tungsten single crystals. J. H. Daniel. bibliog il diag Phys R 61:657-67 My 1 '42

See also

Electrons—Secondary emission
Electrons—Thermionic emission

Reflection, scattering, etc.

Electron polarization. C. G. Shull. bibliog diag Phys R 61:198 F 1 '42

Electron reflections in MgO crystals with the electron microscope. R. D. Heidenreich. il Phys R 62:291-2 S 1 '42

ELECTRONS—Reflection, scattering, etc—*Continued*

Multiple scattering of fast electrons. L. A. Kulchitsky and G. D. Latyshev. bibliog diags Phys R 61:254-65 Mr 1 '42

Multiple scattering of fast electrons. C. W. Sheppard. bibliog diag Phys R 62:313-16 O 1 '42

Single scattering of fast electrons. E. Bleuler, P. Scherrer and W. Zünti. Phys R 61:95 Ja 1 '42

Secondary emission

Amplification by secondary-electron emission in static multipliers; abstract. H. Schnitger. Wireless Eng 19:269-70 Je '42

Contribution to the question of the secondary emission from sublimated alkaline-earth films; abstract. P. Görlich. Wireless Eng 18:467 N '41

Ranges of secondary electrons in magnesium. R. Truell. diags Phys R 62:340-8 O 1 '42

Secondary electrons from semiconductors with marked photoelectric properties; abstract. H. Wolff. Wireless Eng 18:468 N '41

Secondary emission of sublimated antimony layers; abstract. P. Görlich. Wireless Eng 19:426-7 S '42

Total secondary electron emission from thin films of sodium on tungsten. K. G. McKay. bibliog diags Phys R 61:708-13 Je 1 '42

Use of secondary electron emission to obtain trigger or relay action. A. M. Skellett. diags J Ap Phys 13:519-23 Ag '42; Abstract. Electronics 15:100+ O '42

See also

Electron multipliers

Thermionic emission

Anisotropy of the electronic work function of metals. R. Smoluchowski. bibliog diags Phys R 60:661-74 N 1 '41

Mercury arc cathode. C. G. Smith. bibliog diags Phys R 62:48-54 Jl 1 '42

Temperature scale, thermionics, and thermatomics of tantalum. M. D. Fiske. bibliog diag Phys R 61:513-19 Ap 1 '42

Thermionic properties of the iron group. H. B. Wahlin. bibliog Phys R 61:509-12 Ap 1 '42

Velocity

Transit-time phenomena in electronic tubes; a graphical method for investigation. R. Kompfner. Wireless Eng 19:2-7 Ja '42

See also

Electron accelerator

ELECTRONS (chemical club)

Electrons—homo sapiens. E. F. Guillot. Chem & Eng N 20:851-2 Jl 10 '42

ELECTRO-OPTICS

Magneto-optical properties of ferromagnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42

ELECTRO-OSMOSIS. See Osmosis

ELECTROPHORESIS

Effect of urea on the electrophoretic patterns of serum proteins. D. H. Moore. il Am Chem Soc J 64:1090-2 My '42

Electrophoresis of crotoxin. Choh Hao Li and H. Fraenkel-Conrat. il Am Chem Soc J 64:1586-8 Jl '42

Electrophoresis of proteins and the chemistry of cell surfaces. H. A. Abramson, L. S. Moyer and M. H. Gorin. 341p $6 Reinhold pub. corp. '42

Electrophoresis of the chlorophyll-protein complex. M. Fishman and L. S. Moyer. bibliog Science 95:128-9 Ja 30 '42

Electrophoretic and ultracentrifugal analysis of hay-fever-producing component of ragweed pollen extract. H. A. Abramson, D. H. Moore and H. H. Gettner. bibliog il J Phys Chem 46:192-203 Ja '42

Electrophoretic dewatering of clay. S. Speil and M. R. Thompson. bibliog Electrochem Soc Trans 81 (preprint 13):145-71 Ap '42

Electrophoretic evidence for complex formation in casein. L. E. Krejci, R. K. Jennings and L. D. Smith. Franklin Inst J 232:592-6 D '41; Correction. 234:197-201 Ag '42

Principles of microelectrophoresis cells. M. R. Thompson. bibliog diags Electrochem Soc Trans 81 (preprint 27):405-22 Ap '42

Recent advances in the study of proteins by electrophoresis. L. G. Longsworth. bibliog diags Chem R 30:323-40 Je '42

Suggestion for a new method of fractionation of proteins by electrophoresis convection. J. G. Kirkwood. J Chem Phys 9:878-9 D '41

ELECTROPHYSIOLOGY

Brain waves go on after death; abstract. M. A. Rubin and others. Science 95:sup11 My 15 '42

Electronic counter for rapid impulses; study of the spontaneous activity of nerves. B. Wellman and K. Roeder. diags Electronics 15:74+ O '42

Release of potassium by the brain of the dog during electrical stimulation. V. H. Cicardo and A. Torino. bibliog Science 95:625 Je 19 '42

See also

Electricity, Injuries from

ELECTROPLANE camera. See Moving picture cameras

ELECTROPLATING

Adherence of thick silver plate on steel. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 20):223-30 O '42

Aircraft electroplating. R. R. Janssen. diag Metal Finishing 40:247-9+ My '42

Alkali electrotinning. G. T. Bakhvalov. Chem Age (Lond) 47:297 O 3 '42

American electroplaters' society 30th annual meeting, Grand Rapids, June 8-10. Iron Age 149:61-6, 123 Je 25; 150:68-71+ Jl 2 '42

American electroplaters' society 30th annual meeting; program and summaries of papers. Metal Finishing 40:sup8-10, 12-15 Je '42

Applications of bipolarity in plating. F. K. Savage. diags Metal Finishing 40:524-6 O '42

Buffing before plating to improve rust resistance. Iron Age 149:49-51 Ap 16 '42

Cadmium plating in the victory program. A. J. Fusco and N. E. Woldman. il diags Iron Age 149:46-52 Mr 19 '42

Cathode films in tungstate-containing plating baths. M. L. Nielsen and M. L. Holt. bibliog Electrochem Soc Trans 82 (preprint 11):115-23 O '42

Cobalt-nickel deposition. C. C. Downie. Elec R (Lond) 131:11-12 Jl 3 '42

Conservation by electroplating. D. H. Bissell. Paper Tr J 114:85-7 Je 25 '42

Conversion opportunities for electroplaters; list of typical present and suggested military applications. W. Blum and W. W. McCord. Steel 110:65 Mr 30 '42

Crystallization of metals from aqueous solutions. B. P. Planner. diags Iron Age 149:66-9 Je 11 '42

Diffusion theory of the codeposition of gold and copper. M. Dole. Electrochem Soc Trans 82 (preprint 15):145-59 O '42

Effect of wetting agents on electrodeposition of nickel. R. F. Davis, K. M. Wolfe and W. G. France. bibliog il Ind & Eng Chem 33:1546-8 D '41

Electrochemical progress. S. Wernick. Chem Age (Lond) 47:319 O 10 '42

Electrochemical society fall meeting; abstracts of technical papers. Metal Finishing 40:591-3 N '42

Electrochemists discuss plating developments at 82d meeting of Electrochemical society. Oil Paint & Drug Rep 142:7+ O 19 '42

Electrodeposition of hard nickel. W. A. Wesley and E. J. Roehl. bibliog il Electrochem Soc Trans 82 (preprint 1):1-16 O '42; Abstract. Iron Age 150:64-5 S 3 '42

Electrodeposition of iron-tungsten alloys form an acid plating bath. M. L. Holt and R. E. Black. bibliog il Electrochem Soc Trans 82 (preprint 27):319-29 O '42

ELECTROPLATING—*Continued*

Electrodeposition of nickel-tungsten alloys from an acid plating-bath. M. L. Holt and M. L. Nielsen. il Electrochem Soc Trans 82 (preprint 3):21-31 O '42

Electrodeposition of silver from thiosulphate solutions. R. Weiner. Metal Finishing 40: 74-5+ F '42

Electro-deposition trends. T. T. Baker. il diag Elec R (Lond) 130:265-7 F 27 '42

Electrolytic process conserves tin. Blast F & Steel Pl 30:330, 464 Mr-Ap '42

Electrolytic tin-plate. Engineering 154:227-8 S 18 '42

Electrolytic zinc coated wire; Bethanized wire. L. H. Winkler. flow sheet il Metal Finishing 40:76-83 F '42

Electroplating trends; abstract. S. Wernick. Elec R (Lond) 131:459-60 O 9 '42

Electroplating turns from peace to war. J. B. Kushner. il Metal Prog 41:517-21+ Ap '42

Food in cans; problems arising from tin shortage; electrolytic tin plate; practices of various companies. T. W. Lippert. il Iron Age 149:29-44 Ap 30 '42

Fundamentals of science relating to electroplating (cont). Metal Finishing 39:675-6; 40:26-7 D '41-Ja '42

General principles and methods of electroplating. W. Blum, A. O. Beckman and W. R. Meyer. bibliog diag Electrochem Soc Trans 80 (preprint 33):409-58 O '41; Excerpt (Testing and control of electroplating solutions). Can Chem & Process Ind 25:677-82 D '41

High efficiency cyanide copper bath. H. L. Benner and C. J. Wernlund. Electrochem Soc Trans 80 (paper 38):531-6 O '41

High-speed analysis and control of plating solutions. G. Jernstedt. il Electrochem Soc Trans 82 (preprint 17):177-93 O '42

Hydrogen embrittlement produced by commercial cleaning and plating solutions. H. J. Noble. il Iron Age 148:45-52 N 27 '41; Same. Metal Finishing 40:121-7+ Mr '42

Hydrogen ion control in electroplating; advisability of frequent measurement. H. Seymour. Chem Age (Lond) 46:193 Ap 11 '42

Interpretation of the mechanism of bright electroplating. J. A. Henricks. bibliog Electrochem Soc Trans 82 (preprint 22):237-56 O '42

Kinks and reminders. L. L. Linick. Metal Finishing 40:467-9 S '42

Lead and tin undercoats for silver plating. A. Bregman. il Iron Age 149:47-52 Mr 5 '42

Motion and time study in electroplating. P. J. Lopresti. flow charts Metal Finishing 40:196-9 Ap '42

Nickel plating magnesium alloys. W. S. Loose. il Electrochem Soc Trans 81 (preprint 6):51-67 Ap '42

Plated aluminum in the war program. R. F. Yates. il Metal Finishing 40:295-6 Je '42

Plating alloys; white brass, black molybdenum, and black and gray nickel plating. C. B. F. Young. il Iron Age 149:53-7 F 12; 46-8 F 19 '42

Plating and finishing guidebook. W. R. Meyer, ed. 11th ed 129p Metal industry pub. co, New York '42 [gratis to subscribers of Metal finishing]

Platinum plating; a substitute for rhodium plate. C. B. F. Young and J. F. Davis. il Metal Finishing 40:252-3+ My '42

Precision plating of radio condensers. E. C. Rinker. il Steel 110:80+ Ap 6 '42

Relation between tap water and plating efficiency. J. P. ApRoberts. Metal Finishing 40:415-19 Ag '42

Silver for bearings. A. Bregman. il diags Iron Age 150:41-5 Ag 20 '42

Silver plating. N. E. Promisel and D. Wood. bibliog Electrochem Soc Trans 80 (preprint 35):473-98 O '41; Same. Metal Finishing 40:181-91 Ap '42

Silver plating as a substitute coating in the present emergency. C. B. F. Young. bibliog Steel 110:94, 107-8 Ap 20; 91, 107-9 My 4 '42

Silver plating technique. A. Bregman. bibliog il diag Iron Age 149:48-51+ Ja 8; 42-7 Ja 15 '42

Single metal, binary and ternary alloy deposition from thiosulfate solutions; binary alloy deposition of copper-nickel, copper-cadmium and copper-zinc alloys from thiosulfate solutions. D. C. Gernes and G. H. Montillon. Electrochem Soc Trans 81 (preprint 20):297-315 Ap '42

Some of the problems involved in converting the plating industry. C. B. F. Young. Steel 110:70, 72+ Je 8 '42

Strange phenomenon in plating. O. P. Watts. Electrochem Soc Trans 82 (preprint 2):17-19 O '42; Abstract. Science 96:sup8 O 9 '42

Structure of brush-plated silver. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 21):231-5 O '42

Technical developments of 1941. N. Hall. Metal Finishing 40:3-11 bibliog(246 references, p 10-11) Ja '42

Theory of the potential and the technical practice of electrodeposition; the two-dimensional rectangular enclosures. C. Kasper. diags Electrochem Soc Trans 82 (preprint 4):33-64 O '42

Tin plating from the potassium stannate bath. M. M. Sternfels and F. A. Lowenheim. bibliog il Electrochem Soc Trans 82 (preprint 24):265-83 O '42

U.S. Steel installs electro plating lines to save 6,750,000 pounds tin. Steel 110:43 Mr 30 '42

Use of copper in selective carburizing. M. M. Thompson. bibliog il Metal Finishing 40: 579-82 N '42

War and the electroplating industry. W. W. McCord. Steel 111:85-6+ Ag 10 '42

White bronze plating. Product Eng 12:676 D '41

See also

Electrodeposition of metals

Galvanizing

Nickel plating

Cost

Silver to replace nickel and chrome plate; comparative costs. A. Bregman. il Iron Age 148:59-62 N 13 '41

Laboratories

Du Pont co. opens new laboratory for study and solution of problems in metal treatment and electroplating. il Metal Finishing 40:18 Ja '42

Hanson-Van Winkle-Munning co. builds improved plating laboratory. il Metal Finishing 40:324-6 Je '42

Power

Checking performance of selenium rectifiers. il Metal Finishing 40:140 Mr '42

Controlled power for plating. L. W. Reinken. il Metal Finishing 40:470-1 S '42

Copper-oxide rectifiers for electroplating and anodizing. L. W. Burton. diags Metal Finishing 40:243-6 My '42

Metal rectifiers in the electro plating field; abstract. D. Ashby. Electrician 129:329 S 25 '42

Planning rectifier installations. L. W. Reinken. Metal Finishing 40:250-1 My '42

Recent developments in metal rectifiers as applied to electrodeposition. D. Ashby. Electrician 128:593-4 Je 12 '42

Rectifiers for electroplating. R. W. Williams. il diags Metal Finishing 40:583-6 N '42

Rectifiers in hard chrome plating. J. C. Bogle. il Iron Age 149:56-8 F 5 '42

Specifications

Specification plating. C. B. F. Young. Iron Age 148:44-7 D 11; 59-65 D 18 '41

Testing

How to determine the fabricating qualities of nickel electrodeposits. F. P. Romanoff. il Steel 111:98, 100, 104, 116-17 S 7; 86, 89 S 21 '42

Report on dropping tests for zinc and cadmium coatings. W. E. Buck. Metal Finishing 40:242+ My '42

ELECTROPLATING—Testing—*Continued*

Salt spray and ocean spray testing compared; abstract. C. E. Heussner. Iron Age 149:65-6 Je 25 '42

Silver plating steel over a phosphate coating. P. J. LoPresti. il Metal Finishing 40:533-6 O '42

Specification plating. C. B. F. Young. diags Iron Age 148:59-65 D 18 '41

Surface hardness of metals; measured by reflectivity changes caused by impact of sand. B. Chalmers. il diag Engineering 153:117-20 F 6 '42; Same cond. Engineer 173:232-4 Mr 13 '42; Discussion. 173:243-4 Mr 20 '42

Waste

Chromium recovery; various methods of treating patent effluent surveyed. Automobile Eng 32:35-7 Ja '42

ELECTRO-POLISHING. See Polishing, Electrolytic

ELECTROSCOPES

Results of a high altitude cosmic-ray survey near the magnetic equator. H. V. Neher and W. H. Pickering. Phys R 61:407-13 Ap 1 '42

ELECTROSTATIC actuator

Design of air-blast meter and calibrating equipment. A. T. Ireland. bibliog il diags U S Bur Mines Tech Pa 635:1-20; pa 10c Supt. of doc. '42

ELECTROSTATIC alternator. See Electric generators, Electrostatic

ELECTROSTATIC field. See Electric field

ELECTROSTATIC generators. See Electric generators, Electrostatic

ELECTROSTATIC precipitation. See Electric precipitation

ELECTROSTATIC separators

Electronic separator concentrates metallic ore. il Blast F & Steel Pl 30:788+ Jl '42

Electronic separator points toward use of low-grade ores. il Sci Am 167:126 S '42

Improved electrostatic separation; development of the rotating electrode. diags Chem Age (Lond) 45:210 O 18 '41

Report of the Nonmetals division, fiscal year 1941. O. C. Ralston and A. G. Stern. pl U S Bur Mines Rep of Invest 3599:24-6 '41

Simplified electrostatic separation; abstract. G. W. Jarman, jr. and W. Byrd, jr. Iron Age 149:57-8 F 19 '42

Tin by separation; Westinghouse laboratory electrostatic ore separator. il Business Week p76-7 Je 27 '42

ELECTROSTATICS

Effect of electrical forces on the stability of colloidal sols. W. G. Eversole and A. L. Hanson. bibliog J Chem Phys 10:460-3 Jl '42

Effect of electrostatic forces on electrokinetic potentials. W. G. Eversole and W. W. Boardman. J Chem Phys 9:798-801 N '41

Electrostatic effect and the heat transmission of a tube. M. R. Wahlert and H. O. Croft. bibliog il diags Iowa Univ Studies in Eng (Iowa City) Bul 25:1-34 '41 (pa 40c)

Electrostatic influence of substituents on reaction rates; solvent effect. F. H. Westheimer, W. A. Jones and R. A. Lad. bibliog J Chem Phys 10:478-85 Jl '42

ELECTROTHERAPEUTICS

Electrotherapy and light therapy, with the essentials of hydrotherapy and mechanotherapy. R. Kovács. 4th ed rev 735p $8 Lea & Febiger, Philadelphia '42

Medical applications of the short wave current. W. Bierman. 2d ed 344p bibliog(p305-19) $5 Williams & Wilkins '42

Apparatus and instruments

Instrument for measuring electrical field strength in strong high frequency fields. K. S. Lion. bibliog diags R Sci Instr 13:338-41 Ag '42

See also
Diathermy apparatus

ELECTROTYPES

Conflict of inches versus picas goes merrily on. Inland Ptr 109:39-40 Je '42

ELEMOLIC acid

Sapogenins; the acids of elemi resin. P. Bilham and G. A. R. Kon. Chem Soc J p544-50 S '42

ELEMONIC acid

Sapogenins; the acids of elemi resin. P. Bilham and G. A. R. Kon. Chem Soc J p544-50 S '42

ELEOSTEARIC acid

Isomerizations of polyene acids and carotenoids; preparation of β-eleostearic and β-licanic acids. H. H. Strain. bibliog Am Chem Soc J 63:3448-52 D '41

Polymerization of drying oils; comparative rates of polymerization of esters of isomeric octadecatrienoic acids at 275°C. in vacuum. W. C. Ault and others. bibliog Ind & Eng Chem 34:1120-3 S '42

ELEVATED roads. See Roads, Elevated

ELEVATOR floors

Care and maintenance of elevator floors. R. Jarden. il Soap & San Chem 18:90-2 Mr '42

ELEVATORS

Safety measures

Automatic releasing of safety brakes of lifts. diags Mech Handling 29:48-50 Mr '42

Elevators, masterpiece of modern progress. C. W. Lerch. il diags W Soc E J 46:237-43 O '41; Same abr. Mech Handling 29:63-7 Ap '42

Industrial elevators. K. A. Colahan. il Nat Safety N 45:24-5+ Ja '42

Modern elevator practice. E. M. Bouton. il diags Mech Eng 64:195-7 Mr '42

ELEVATORS, Electric

Electric lifts (elevators). E. Molloy, ed. 232p $2.50 Chemical pub. co. '41

Elevators, masterpiece of modern progress. C. W. Lerch. il diags plan W Soc E J 46:234-50 O '41; Same cond. Mech Handling 29:63-7 Ap '42

McGraw-Hill protects elevator machines from water damage. il diags Power 86:648-9 S '42

Modern elevator practice. E. M. Bouton. il diags Mech Eng 64:193-200 Mr '42; Discussion. 64:618-22 Ag '42

ELEVATORS, Portable

Better handling broke a bottleneck; parts ride portable elevators right into the box that carries them to the next operation; King-Seeley corporation, Ann Arbor. W. J. Pearse. il Factory Management 100:84-5 Je '42

ELIASSEN, Sigurd, 1885-

Sketch. por(p50) Civil Eng 12:51 Ja '42

ELKONITE

Use of elkonite for cyclotron ion sources. B. R. Curtis and R. S. Bender. R Sci Instr 13:266 Je '42

ELLA Sachs Plotz foundation for the advancement of scientific investigations

Report. Science 95:64 Ja 16 '42

ELLENBURGER formation

Subsurface study of Ellenburger formation in west Texas. T. Cole. bibliog diags maps Am Assn Pet Geologists Bul 26:1398-1409 Ag '42

ELLIOTT, Harriet Wiseman, 1884-

Miss Elliott & co. por Business Week p77-8+ D 6 '41

ELLIOTT, Ray

Total war and the little man; Ray Elliot, a builder of White River Junction, Vermont; what's to become of him if he can't get materials? por Fortune 25:78-80, 82, 84 Ja '42

ELLIOTT addressing machine company

Workers are heirs; Harmon P. Elliott establishes trust to convey control of addressing machine company to employees. Business Week p47-8 D 20 '41

ELM

Diseases and pests

Toxin formation by ceratostomella ulmi. G. A. Zentmyer. Science 95:512-13 My 15 '42

ELON. See Metol

EL PASO, Texas

Sewerage

El Paso expands utilities for army use. il plan Eng N 129:166-9 Jl 30 '42

Water supply

El Paso expands utilities for army use. il plan Eng N 129:166-9 Jl 30 '42; Abstract. Water & Sewage 80:25-6 O '42

EL PASO natural gas company

Brief description. O. Ely. Pub Util 29:759-61 Je 4 '42

ELUTRIATORS

Apparatus for particle size analysis. diags Engineering 154:221-3 S 18 '42

ELWELL, Richard E.

C.A.A. counsel named to aviation body. Civil Aero J 2:314 D 15 '41

EMBALMING

Materials used at the embalming of King Tūt-'ankh-Amūn. H. E. Winlock. (Papers no. 10) 18p, 10pls pa $2 Metropolitan museum of art, New York '41

EMBANKMENTS

Classification of soils and control procedures used in construction of embankments. H. Allen. il diags Pub Roads 22:263-82 F '42

Draining to prevent slippage of a road fill. il Pub Works 73:23-4+ Jl '42

Soil mechanics studies and reconstruction work; protecting pumping station from slides; Grapevine grade on U.S. 99 in California. V. J. Brown. il diags plan Roads & Sts 85:25-32 Mr '42

Stabilization of highway embankments. il Eng N 128:285-8 F 12 '42

See also

Dams
Earthwork
Levees

Oil testing method

Oil used in testing earthfill density; Green Mountain Dam embankment. S. Poe. il Eng N 127:814-16 D 4 '41

EMBEZZLEMENT

Frauds and embezzlements; study based upon 609 bank fidelity losses. R. T. Wood. Weekly Underw 146:1175-8 My 23 '42

Progress in loss prevention. H. Ervin. Banking 34:66 D '41

EMBOSSING (typography)

Roll leaf hot stamping and embossing. A. A. Morse. il Mod Packaging 15:80-1 Mr '42

EMBROIDERY

Adventures in embroidery. E. Thesiger. 104p bibliog(p7) $4.50 The Studio, 381 4th av, New York '42

Needle point as a hobby. D. G. Lent. 180p $3 Harper '42

EMBRYOLOGY

Effect of increased pantothenic acid in the egg on the development of the chick embryo. A. Taylor, J. Thacker and D. Pennington. Science 94:542-3 D 5 '41

Virus infection of the mammalian fetus. E. W. Goodpasture. Science 95:391-6 Ap 17 '42

EMDEN, Germany

Harbor

Air force targets; port of Emden. il diag map Engineer 174:89-91 Jl 31 '42

EMERGENCY hospitals. See Hospitals, Emergency

EMERSION

Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

EMERSON electric manufacturing company

Arranges $30,000,000 bank credit. Comm & Fin Chr 156:957-8 S 14 '42

EMINENT domain

International aspects of European expropriation measures. M. Domke. 5p Foreign & international book co, 110 E. 42d st, New York '41

Public land acquisition in law and practice. H. R. Briggs and A. R. McGinley. J Land & Pub Util Econ 17:452-9 N '41

See also

Mexico—Expropriation policy

EMMERICH, Herbert

Head of new Federal public housing authority. por Arch Forum 76:198 Ap '42

Herbert Emmerich appointed new head of FPHA. R. R. Dickey. Arch Rec 91:16 Ap '42

EMPIRE gas and fuel company

Exchange offer commences. Comm & Fin Chr 156:513 Ag 10 '42

New job for securities dealers. J. P. Broderick. Barron's 22:8 O 19 '42

Plan filed with SEC. Comm & Fin Chr 154:1147 N 22 '41

Plan operative. Comm & Fin Chr 156:1237 O 5 '42

Recapitalization plan. Comm & Fin Chr 156:354 Jl 30 '42

Ruling on 3½% sinking fund debentures. Comm & Fin Chr 156:1325 O 12 '42

EMPIRE power corporation

Upheld in Everett case; Court of appeals upholds Appellate division. Comm & Fin Chr 155:2277 Je 15 '42

EMPIRE State building

Direct measurement of lightning current. J. W. Flowers. bibliog il diags Franklin Inst J 232:425-50 N '41

EMPLOYEE counseling. See Employment management

EMPLOYEE identification. See Employees, Identification of

EMPLOYEES

Drives of workers. H. A. Wren. Personnel J 20:317-23 Mr '42

Employe attitude survey. J. C. Staehle. Bankers M 144:445-6 My '42

Helping the man higher up. J. J. Rutledge. Explosives Eng 20:203 Jl '42

How and why you should keep in touch with employes in uniform. R. Stone. Sales Management 50:44 Ap 1 '42

How four firms keep track of employes now in uniform. Sales Management 51:48-9 Jl 15 '42

If I were a war-worker. R. A. Sutermeister. Personnel J 21:96-102 S '42

Importance of employee information. B. V. Drake. Special Lib 32:342-4 N '41

Industry takes the offensive; auxiliary defense corps, River works of the General electric company. J. B. Dunne. il Nat Safety N 45:10-11+ F '42

Let's go! say Cleveland defense workers; lapel emblems, posters, honor rolls, to stimulate defense work. il Factory Management 99:63+ D '41

See also

Ability tests
Advertising agencies—Employees
Aeronautic workers
Age
Apprentices
Automobile factories—Employees
Bakers and bakeries—Employees
Bank employees
Bonus system
Bookbinderies—Employees
Building trades—Labor conditions
Buildings—Employees
Canneries—Employees
Cement plants—Employees
Cigar factories—Employees
Cotton mills—Employees
Credit unions
Efficiency, Industrial
Electric utilities—Employees
Electric workers
Employees' representation in management
Employment management
Employment systems
Eye—Examination
Foremen
Gas companies—Employees
Government employees
Hygiene, Industrial
Industrial relations

EMPLOYEES—See also—*Continued*

Institutions, Public—Employees
Job analysis
Labor and laboring classes
Machine shops—Employees
Medical service, Industrial
Military service—Labor problems
Motor truck drivers
Municipal employees
Occupations
Office workers
Paper mills—Employees
Payrolls
Pensions, Industrial
Physical examinations
Radio workers
Railroads—Employees
Recreation
Salesmen
Saving
Servants
Sickness
State employees
Steel workers
Street railroads—Employees
Suggestion systems
Telephone companies—Employees
Textile workers
Wage payment plans
Wages
Welfare work in industry
Woman—Employment

Clothing

See also
Clothing, Protective

Identification

See Employees, Identification of

Length of service

Development and operation of the railroad seniority system. D. H. Mater. J Business 13:387-419; 14:36-67, 169-204, 384-418 O '40-Ap, O '41

Physical examinations

See Physical examinations

Promotion

Effective promotion plan; abstract. W. Stewart. Management R 31:265-6 Ag '42

Policies for promotion and discharge; abstract. R. S. Livingstone. Management R 31:201-2 Je '42

Selecting employees for advancement. L. B. Drury. Personnel J 20:166-71 N '41

Where can we get executives? G. Brown. Personnel J 21:47-53 Je '42

See also
Employees—Rating

Rating

Are employee rating plans the bunk? H. Moore. Am Business 12:18, 26-7 O '42

Evaluating spray operators. W. L. Mattern. Metal Finishing 40:507-8 S '42

Personnel rating; General electric company. G. J. Meyers, jr. diags Gen Elec R 45:351-6 Je '42

Real use for rating scales. H. Moore. Personnel J 21:165-70 N '42

System for rating bank employees. Bankers Mo 59:300-1+ Jl '42

What it takes; employee rating sheet. W. Powers. il Banking 35:28-9 N '42

See also
Ability tests
Office workers—Rating
Stenographers—Rating

Selection

See Employment systems

Testing

See Ability tests

Training

See Employees, Training of

EMPLOYEES, Age of. See Age

EMPLOYEES, Dismissal of

See also
Employment systems
Wages—Dismissal wage

EMPLOYEES, Identification of

Employees to get identity badges. Ry Age 112:666 Mr 28 '42

Glo-pass system; passes painted with fluorescent lacquer prevents forgery. Engineer 174:17-18 Jl 3 '42

Home made photo identification system; Columbia steel tank co. il Iron Age 149:53 Mr 19 '42; Steel 110:96 My 18 '42

Identification of employees. il Nat Safety N 45:132 Mr '42

Photographic identification. J. C. Liccion. il Am Phot 36:30-3 Jl '42

Photographing workers in war plants. R. S. Robinson. il Ind Marketing 27:32-3+ Mr '42

Workers on defense wear badges; Bibb mfg. co. il Textile World 91:79 D '41

EMPLOYEES, Interchange of

Men to be loaned; Murray workers made idle by aviation changeover will be transferred to another company. Business Week p52-3 Je 20 '42

EMPLOYEES, New. See Employment management—New employees

EMPLOYEES, Purchasing for

Department stores start fight on fake wholesale and retail sales outlets. Ptr Ink 197:33-4+ N 14 '41

EMPLOYEES, Reports to

Annual reports to employees go to war. il Ptr Ink 199:16-17 My 15 '42

Financial reports to employees. M. J. Barloon. Harvard Business R 20 no 1:124-31 [S] '41; Abstract. Management R 31:97-9 Mr '42

Jewel tea company's Adventures in business. Dun's R 49:51 O '41

Management's responsibility to workers in industry. J Account 74:245 S '42

EMPLOYEES, Selection of. See Employment systems

EMPLOYEES, Selling to. See Discount, Employees'

EMPLOYEES, Training of

Adapting labor to the aviation industry; N. A. Woodworth co. is taking on the butcher, baker, and housewife. C. S. Ricker. il Aviation 41:130, 137+ Jl '42

American Airlines' four-year mechanics' course. R. H. Burck. il Instruments 15:98 Ap '42

Appliance service training in Georgia. H. F. Woodall. Elec W 116:1914+ D 13 '41

Apprentice training program developed by General electric co. R. E. Ellis. il Steel 111:56-8 S 28 '42

Begin now to train women and older people. L. B. Hershey. il Factory Management 100:60-1 F '42

Briggs aircraft training program. J. W. Busman. il Aero Digest 41:108, 112, 114+ Ag '42

Calling all men; Warner & Swasey co. training of specially skilled workmen. il Business Week p66-7 Je 27 '42; Same cond. Management R 31:306-8 S '42

Carnegie-Illinois training plan cited as model by War board. Steel 110:76 My 11 '42

Continuous management training plan developed by Indiana jobber; Glenn oil co. il Nat Pet N 34:27, 30+ F 25 '42

Defense workers trained quickly; Machine gun division of AC spark plug co. il Am Mach 85:1127-30 N 12 '41

Determining tapping temperatures by the spoon test; training open-hearth crews facilitated by moving picture camera. A. G. Arend. il Steel 111:104, 108+ Jl 6 '42

Development officers; training scheme for men in forces. G. A. T. Burdett. Elec R (Lond) 131:247-8 Ag 21 '42

Educational and training program at General Electric. A. R. Stevenson, jr., M. M. Boring and T. C. Johnson. bibliog Mech Eng 64:217-20 Mr '42

Educational program for industrial fire prevention protection. J. A. McGuckin. Edison Elec Inst Bul 10:91-2 Mr '42

Educational slide film advances employe information program at New Orleans public service company. J. E. Kearns. Am Gas J 156:24+ Ap '42

Effective way of instructing machine shop operators. W. L. Bond. il Mach 49:162-4 S '42

Employee training. A. M. Cooper. 311p $2.50 McGraw-Hill '42

Employee training; program of Detroit bank. Banking 34:50 My '42

EMPLOYEES, Training of—*Continued*

Evaluating industrial training; abstract. A. M. Cooper. Management R 31:86-7 Mr '42

Extensive training courses convert auto workers to fuselage production; Hudson motor car company. il Am Mach 86:595-8 Je 11 '42

Films cut learning time. il Factory Management 100:104 N '42

Finding and training supervisors; Murray corporation of America, Detroit. M. B. Lindquist. Factory Management 100:74-5+ Ag '42

Fisher body personnel training program. il Aero Digest 40:77-8 Je '42

General Electric expands training program. il Gen Elec R 45:468 Ag '42

General Electric has trained more than fifty thousand war workers. Mach 48:147 Je '42

Getting acquainted; St Louis public service company instructs men in operation and maintenance of PCC cars. il Transit J 86:104 Mr '42

Good working habits; proper training insures their development. O. G. Van Campen. Coal Age 46:52-4 D '41

Grinding and setting metal-turning cutters; Warner & Swasey uses moving picture for instruction. il diags Aero Digest 40:192, 195-6 My '42

Hiring and training women for war work; Ford bomber plant, Willow Run, Mich. il Factory Management 100:72-3 Ag '42; Same. Management R 31:309-10 S '42

Home guards; problems of plant protection. V. G. Schaefer. Nat Safety N 46:27+ S '42

How Swift trains future executives. F. C. Minaker. il Am Business 12:16-18+ Ja '42

How to train workers for war industries. A. E. Dodd and J. O. Rice, eds. 260p bibliog(p248-55) $3 Harper '42

How we retrained 900 men every 60 days; Briggs manufacturing company, Detroit. H. J. Roesch. il Factory Management 100:95-6+ O '42

Job instruction aids output increase. Automotive & Aviation Ind 86:52+ Ap 15 '42

Job instructor training. Steel 110:62-3+ Mr 9 '42

Job instructor training; how textile mills can benefit from program initiated by War production board. Textile World 92:104-5 Mr '42

Junior executive, foreman, instructor and specialist training, panel discussion. Steel 110:66 My 25 '42

Machine guns from task operations; Canadian war emergency training system. il Am Mach 86:404-8 Ap 30 '42

Machine operators taught by pictures; Kearney & Trecker corp. diags Iron Age 150:104-5 Ag 20 '42

Manpower and efficiency in woods operations. A. Koroleff. il Pulp & Pa of Can 43:830-2 O '42

More trained men needed by foundry industry; abstracts of A.F.A. convention papers. Foundry 70:86, 88+ Je '42

Movie training now available for lathe operators. Sci Am 166:14-15 Ja '42

Movies without stroboscopic action; training machine operators. il Am Mach 86:699-700 Je 25 '42

New men trained for production. il Am Mach 85:1204-8 N 26 '41

Organization and training of water main emergency repair crews and auxiliary personnel assigned to emergency water service duties. Am Water Works Assn J 34:803-22 Je '42

Overcoming the shortage of shipfitters. F. T Warner. Marine Eng 47:127+ My '42

Pan American's training program for service mechanics; use of slide films. J. Howard. il Aero Digest 41:225+ O '42

Paper company realizes need of training; Crown Willamette teaches employees. Pulp & Pa of Can 43:683-5+ Ag '42

Penn-Greyhound trains women for information service. il Bus Transportation 21:222-3 My '42

Planning organization in the groundwood mill. V. L. Tipka. Paper Ind 24:700-1, 703-4 O '42

Practical and efficient program for training maintenance men; R. G. LeTourneau inc. W. J. Brooking. il Steel 110:72-3, 94+ My 4 '42

Practical application of Woodlands section's studies; instruction of lumberjacks. E. R. Goulet. Pulp & Pa of Can 43:25-9 Ja '42

Public relations of private enterprise; employee training in personal service vital factor in deciding ownership question. A. M. Cooper. Elec West 89:39-40 Ag '42

Retraining men for war production; Olds motor works (General motors), Lansing. il Factory Management 100:71-2 Ag '42

School on wheels for servicemen; tour of instruction of Delco-Heat service men. il Sheet Metal Worker 33:42 Mr '42

Simplification speeds up production; employees of Walter Kidde & company develop assembly devices. il Marine Eng 47:100-3 Je '42; Excerpts. Sci Am 167:26+ Jl '42

Sound film shows proper grinding, setting of tools. il Steel 110:70 Ap 13 '42

Staff training. R. D. Gracey. J Account 74:326-31 O '42

Stars in training; two shipbuilding plants, aircraft company, and maker of machine tools get plaudits of WPB's Labor division. Business Week p70+ Mr 21 '42

Stove foundry adopts upgrading plan; Cleveland cooperative stove co. P. Dwyer. Foundry 70:138-40 N '42

Streamlined job training. Personnel J 20:271-5 F '42

Supplying factory personnel by training within industry. C. R. Dooley. il Aero Digest 41:116, 118+ S '42

Survey of department-store training methods. C. J. Corbin. J Retailing 18:16-21 F '42

Tackling the mine personnel problem in wartime. G. R. Spindler. il Min Cong J 28:21-4 My '42

Teaching foremen to teach workers. W. Odom. Am Business 12:19-20+ Mr '42

They learn by doing; subcontractor's representatives don overalls in Curtiss-Wright plants and do the jobs they will direct when they return to their own factories. E. H. Worthington. il Aviation 41:179-80+ Ag '42

Thompson Products training programs. R. W. Bender. il Iron Age 150:74-8 O 22 '42

Threat to TWI; OPM's training within industry program threatened if C.I.O. withdraws its cooperation. Business Week p54-6 N 22 '41

Three-way training plan insures future manpower; Universal winding co, Cranston, R.I. Am Business 12:41 Ja '42

Training and education of open hearth personnel. J. S. Morris. Blast F & Steel Pl 30:869-74 Ag '42

Training and upgrading employees; Manning, Maxwell & Moore, inc., Bridgeport. W. I. Newman. il Factory Management 100:69-70+ Ag '42

Training classes; Powell River company. Paper Tr J 113:129 N 27 '41

Training for maintenance. R. C. Oberdahn. il diags plan Factory Management 100:81-8 Mr '42

Training for the future; Landis tool company. F. A. Firnhaber. Am Mach 86:282-4 Ap 2 '42

Training in a job shop. H. Boyar. il Am Mach 86:329-30 Ap 16 '42

Training men for maintenance jobs; R. G. LeTourneau, inc, Peoria, Ill. and Toccoa, Ga. G. B. Arthur, jr. il Factory Management 100:136-8+ Ag '42

Training molders for war requirements. P. R. Ramp. Foundry 70:190-2 Ap '42

Training on job is held best for future executives; argument against formal courses. G. Biggs. Ptr Ink 198:19, 38+ Mr 13 '42

Training operators in a plant converted to war work; employes, ordinarily engaged in making linoleum, bottle caps, plastics, and gaskets trained to produce precision metal war products. il Mach 48:121-6 Je '42

EMPLOYEES, Training of—*Continued*

Training operators to handle war production work; Woodworth precision airplane engine parts. G. E. Stedman. il Steel 110:64-6, 68 Je 1 '42; Abstract. Management R 31:344-5 O '42

Training problems and women employees; war production conference, American society of tool engineers. Iron Age 150:63-4 O 22 '42

Training servicemen by use of recurring service orders. Am Gas Assn Proc 1941:460-3

Training shipyard workers. H. L. Seward. il Marine Eng 47:211-13+ O '42

Training water works operators. I. M. Glace. Water Works & Sewerage 89:136-9 Mr '42

Training within industry. W. K. Opdyke. Harvard Business R 20 no 3:348-57 [Ap] '42

Training women for war work. J. B. Nealey. il Iron Age 150:50-1 Ag 6 '42

Training workers and supervisors for war production. M. Anderson and others. 40p Am. management assn, New York '42

Upgrading supervision by training. C. E. Fonda. il Aero Digest 41:219+ O '42

Varsity '42; schools for garage and shop men; Pennsylvania and Richmond Greyhound lines. R. E. Cochran. il Bus Transportation 21:263-5 Je '42

Vestibule school for greater war production; Warner & Swasey co. W. Seeley. il Iron Age 150:60-2 S 10 '42

Visual production training at Bell aircraft corp. D. G. Forman. il Aviation 41:127-9+ Jl; 207-8+ Ag '42

War production offensive speeds up training for industrial army; Apprentice-training services, War man-power commission. W. F. Patterson. il Foundry 70:74-5, 160-2 N '42

War work so different that both supervisors and workers had to be retrained; Fisher body. il Am Mach 86:586-7 Je 11 '42

Warner & Swasey motion picture on the grinding and setting of cutting tools. il Mach 48:156-7 My '42

When Uncle Sam says, hire twice as many workers; Boeing bomber plant. K. R. Wadleigh. il Am Business 12:26-7+ Ja '42

Work simplification, essential to defense; training employees by use of moving pictures. A. H. Mogensen. Soc Motion Picture Eng J 38:295-9 Mr '42

See also

Apprentices
Bank employees—Training
Executives—Training
Foremen—Training
Industrial education—Cooperative plan
Instructions
Insurance, Life—Agents—Training
Railroads—Employees—Training
Safety instructions and training
Salesmen—Training
Salesmen, Retail—Training

EMPLOYEES, Transportation of

And so to work; ride-sharing equalized by token system evolved in Cleveland by White Motor executive. il Business Week p46+ Je 20 '42

Buses replace many autos at big aircraft plant; emergency transportation service established by four charter bus companies for Glenn L. Martin co. il map Transit J 86:244-7 Jl '42

California's war transit problem, unusual. J. H. Collins. Pub Util 30:143-50 Jl 30 '42

Car-sharing plans. Management R 31:289-91 Ag '42

Crisis in worker transportation and what must be done about it. il Factory Management 100:78-87 S '42

Following Pontiac; cities in Michigan propose share-the-ride plans. Business Week p31 Jl 11 '42

Frozen automobiles, are they potential mass transportation for war workers? Bus Transportation 21:318 Jl '42

Getting employes to cooperate in swap-ride programs. W. J. Williams. il Ind Marketing 27:25-6+ O '42

Getting people to and from the job; car sharing; Glenn L. Martin company, Baltimore. il Factory Management 100:85-7 Ag '42

How do they get to work? E. J. Reeder. il Nat Safety N 46:17-18, 68+ Jl '42

How Los Angeles tackled the war-worker transit problem. L. S. Flint. il Bus Transportation 21:302-5 Jl '42

Little guy gets a break in Los Angeles; serving small plant transit needs. Bus Transportation 21:412-13 S '42

Navy and transit company attack Norfolk problem. H. F. Hammond. Transit J 86:272-4 Ag '42

New subsidy plan solves ride-to-work problem; buses and streetcars subsidized by Lockheed. il Factory Management 100:92-4 O '42

ODT bus, where can it be used most effectively? il Bus Transportation 21:212-13 My '42

ODT studies the box car bus; bus trailer may be answer to problem of transporting war workers. Pub Util 29:642-4 My 7 '42

One city's answer to the tire shortage, the Pontiac plan. il Am Business 12:14-16 Jl '42

Ray maps show defense transit needs; Oakland, California. C. Robertson. il Transit J 86:168-70 My '42

Ride by contract; to supplant voluntary ride-sharing. Business Week p50+ O 17 '42

Safer than the highway; Diesel launches provide transportation for employees of Freeport sulphur co. A. H. Schroder. il Nat Safety N 44:18-19+ D '41

So all may ride; Pontiac plan of conserving worker transportation. Business Week p33-4+ Mr 28 '42

Surveys ride-to-work problem; Curtiss-Wright questionnaire. il Factory Management 100:53 Ap '42

Teaming workers with rides; Aircraft accessories corporation, Burbank, Calif.; colored tacks on map show home locations and transportation status. il Factory Management 100:87+ Ag '42

Trailer takes 140 to work. il Factory Management 100:67 Jl '42

Urges plants to set up transportation plans. Comm & Fin Chr 156:1717 N 12 '42

What about group riding? J. A. Miller. il Transit J 86:268-71 Ag '42

White Motor's share-your-car plan; employees give and receive celluloid tokens. Ptr Ink 200:49-50 Jl 24 '42

EMPLOYEES as stockholders

Workers are heirs; Harmon P. Elliott establishes trust to convey control of addressing machine company to employees. Business Week p47-8 D 20 '41

EMPLOYEES' associations

Better morale, greater output; workers' club; Lockheed aircraft corporation. O. Arbelbide. il Factory Management 100:86-9 Ja '42

Play for all who want to play; employee recreation program; Revere copper & brass, incorporated. P. A. Senft. il Factory Management 100:90-1 Ja '42

See also

Company unions

EMPLOYEES' automobiles. See Automobiles, Employees'

EMPLOYEES' buildings

Air conditioned plant restaurants keep busy war workers up to par; unusual building design, Chicago bridge and iron co. S. R. Lewis. il plan Heating-Piping 14:279-81 My '42

Chicago restaurant building; Chicago bridge and iron co. windowless, air-conditioned restaurant and recreation building. il diag plan Arch Forum 76:173-5 Mr '42

Community recreation center, Seaford, Delaware. il diags plan Arch Forum 77:67-70 Jl '42

Employees' welfare, new pattern; modern service building of Campbell's Soup. J. G. Frederick. Barron's 22:9 Je 15 '42

Everyone can go home clean; employees' service building; Caterpillar tractor company. il Factory Management 100:81 Ja '42

Lehigh spends real money for employe's welfare. il Rock Prod 45:39-40+ F '42

EMPLOYEES' buildings—*Continued*
One of the country's unusual buildings; dome-shaped windowless restaurant and recreation center, Chicago bridge & iron co. il diag plan Sheet Metal Worker 33:49-50 Ja '42

EMPLOYEES' clothing. See Clothing, Protective

EMPLOYEES' clubs
Employee service clubs; abstract. Management R 30:406-8 N '41

EMPLOYEES' conferences
Allis-Chalmers plan orients new employees. il Iron Age 149:92 Je 18 '42

EMPLOYEES' discount. See Discount, Employees'

EMPLOYEES' errors. See Errors, Employees'

EMPLOYEES' inventions. See Inventions, Employees'

EMPLOYEES' libraries. See Libraries, Employees'

EMPLOYEES' lunch wagons. See Lunch wagons, Employees'

EMPLOYEES' lunches. See Lunches, Employees'

EMPLOYEES' lunchrooms and cafeterias. See Lunchrooms and cafeterias, Employees'

EMPLOYEES' magazines
Another inspiring business story from England: how house magazines fight economic war. F. R. Groves. Ptr Ink 197:37, 40, 42-3 N 14 '41
Cheerful messenger; illustrated publication aids safety program of Shevlin-Hixon company. C. K. Weil. il Nat Safety N 46:20-1+ Ag '42
Demand for industrial house organs creates printing orders. K. R. Tuttle. il Inland Ptr 109:37-9 S '42
Editors of employee publications as salesmen of safety. H. Armand. Safety Eng 83:10 Ap '42
Employee house magazines speed war production. il Ptr Ink 199:43+ Ap 10 '42
Employee magazines. Management R 31:376-8 N '42
Employee publications in wartime. Management R 31:360-1 O '42
Functions of the employe publication in wartime. L. Gibson. il Ind Marketing 27:26-7, 66 Jl '42
Glimpses of U.S. business future seen in servicemen's letters to house magazines. E. Johns. il Ptr Ink 200:13-15, 42-4 Ag 7 '42
House magazines in war effort. Ptr Ink 199:51 My 1 '42
House magazines shoulder heavy wartime responsibility. Ptr Ink 199:25-6 My 22 '42
Mutual Life issues new magazine. il East Underw 43:16 My 22 '42
Pointers on building and maintaining an employe house organ. K. Tuttle. il Ind Marketing 26:31-2+ D '41
Service men's own house organ; pictures and text all given over to employees now gone to war; Thomas A. Edison, inc, West Orange, N.J. il Ptr Ink 201:54 O 23 '42
Special house organ for employees in military service; Celotex corporation. Ptr Ink 200:33 Jl 24 '42
33 war-winning ideas for house magazines to use. G. Bentley. Ptr Ink 199:58, 60+ My 8 '42
Training in health; company physician prepares articles for employee publication; Consolidated Edison co. of N.Y. N. E. Eckelberry. il Nat Safety N 44:26-7 D '41

Directories

Employee house-magazine list. Ptr Ink 199:60-2, 64-9 My 22; 52 My 29; 200:35 S 25 '42

EMPLOYEES' manuals
D. & R. G. W. employees know what makes the wheels go round. il Ry Age 112:939-42 My 16 '42
Development of manuals of procedure. F. Seinecke. Am Gas Assn Proc 1941:151-3
Welcome to John Doe. Management R 31:345-6 O '42
See also
Instructions

EMPLOYEES' representation in management
Are war production drives worth while? Factory survey. il Factory Management 100:74-80 O '42
Assessing a drive; labor-management committee plan of WPB yields a variety of results. Business Week p78-81+ S 5 '42
Bank's junior advisory board; Equitable trust company, Baltimore. J. G. Renshaw. il Burroughs Clearing House 26:22-4+ S '42
Collective bargaining and accelerated production. C. S. Golden. Ann Am Acad 224:96-103 N '42
C.I.O. vs. C.F.I.; steelworkers' vote spells the end of Colorado Fuel & Iron employee organization. Business Week p92-3 Ag 15 '42
Co-operative management-labor apprenticeship plan; Murray corp. of America. G. E. Stedman. il Steel 111:74-6, 118-23 S 7 '42
Democracy in directorates; an alternative to managerial revolution. Trusts & Estates 75:359 O '42
Development and operation of joint management-labor committees. M. H. Clark; J. P. Kottcamp; E. L. Oliver. 28p Am. management assn, 330 W. 42d st, New York '42
Do workers want to manage? Not when they understand the problems of management. W. Williams. Factory Management 100:92-3+ Je '42
How collective bargaining works; a survey of experience in leading American industries. 986p $4 Twentieth century fund, 330 W. 42nd st, New York '42
How co-op plan works on C.N.R. Ry Age 112:957-8 My 16 '42
How to build the will to win; labor-management committees. il Factory Management 100:58-60 My '42
Joint labor-management committees established by steel, metals firms. Steel 110:16-17 Mr 30 '42
Joint production advisory committees in Great Britain. Monthly Labor R 54:1088-9 My '42
Joint production committees. Engineer 173:469-70 Je 5 '42
Joint production committees. C. H. Northcott. Personnel J 21:146-50 O '42
Labor-management an old story to the B & O. P. M. Wagner. Pub Util 30:441-2 S 24 '42
Labor-management committees. K. Earnshaw. Trusts & Estates 74:446-8 My '42
Labor-management suggestions speed war production; Cooper-Bessemer corporation; abstract. B. B. Williams. Marine Eng 47:255-6 O '42; Same cond. Steel 111:64 Ag 10 '42
Management-labor committee established; Interlake tissue mills company. Pulp & Pa of Can 43:814 O '42
Management-labor cooperation plan that has proved successful; Lincoln electric co. Mach 48:146-7 Ag '42
Production snag; Goodrich plant committee breaks up. Business Week p70 Je 20 '42
Push Murray plan; C.I.O. renews drive for labor participation in direction of war effort. Business Week p74-5 Jl 4 '42
Shop drive grows; WPB production committee plan. Business Week p68-70 Ap 18 '42
This labor-management hookup gets things done; CIO die casters and Doehler die casting company. J. Garth. il Am Business 12:9-11 Jl '42
Union participation in national defense. C. S. Slocombe. Personnel J 20:254-9, 287-93 Ja-F '42
Union participation: key to greater productivity. C. S. Golden and H. J. Ruttenberg. Advanced Management 7:55-60 Ap-Je '42
War production drive; labor-management committees, incentives, awards, and other promotion aids. Marine Eng 47:254-5 O '42
Workers in management. Engineer 173:206 Mr 6 '42; Same. Mech Eng 64:485-6 Je '42
See also
Collective bargaining

EMPLOYEES' representation in management —*Continued*

Bibliography

Union-management cooperation with special reference to the war production drive; a selected, annotated bibliography. 27p pa 25c Industrial relations section, Dept. of economics and social institutions, Princeton univ, Princeton, N.J. '42

EMPLOYEES' saving plans. See Saving

EMPLOYEES' suggestions. See Suggestion systems

EMPLOYERS

Right of employer to express opinion in labor matters. Monthly Labor R 54:452 F '42

EMPLOYERS' associations

Employers curbed; order by NLRB restraining M. & M. and other groups, marks end of era in Los Angeles labor history. Business Week p19-20+ D 13 '41

Hotel men fight strike with advertising technique learned from farm groups. J. E. Pickett. Ptr Ink 198:17+ F 6 '42

See also

San Francisco employers council

EMPLOYERS' liability

Law for the layman; mule risk. M. L. Hayward. Barron's 22:4 Ap 6 '42

Safeguarding of conveyors and their legal consequences. F. E. Sugden. Mech Handling 29:18-19 Ja '42

Workmen's compensation and employer's liability; important judicial decision. F. E. Sugden. Mech Handling 28:247-8, 266-7 N-D '41; Abstract. Elec R (Lond) 129:541-2 N 14 '41

See also

Accidents, Industrial
Insurance, Workmen's compensation
Workmen's compensation

EMPLOYMENT

After the war, full employment; post-war planning. A. H. Hansen. 19p U.S. Nat. resources planning board, Washington; pa 5c Supt. of doc. '42

Employability of the physically handicapped; abstract. H. H. Kessler. Nat Safety N 45:81-3 Ja '42; Same. Concrete (mill sec) 50:155 Ap '42

Outlook for private enterprise in America. S. H. Slichter. Advanced Management 7:67-76 Ap-Je '42

Sunrise on D-day; how business men are planning to provide employment when war ends. B. H. White. Barron's 22:3-4 Je 29 '42

See also

Applications for positions
Child labor
Employees
Hours of labor
Labor and laboring classes
Labor requirements (for production)
Negroes—Employment
Part time employment
Payrolls
Unemployment
Woman—Employment

Stability

See also

Employment systems
Labor turnover
Unemployment

Statistics

Annual review of the employment situation in Canada during 1941. 75p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

As men and women make munitions; civil and war employment, Dec. 1941-June, 1944; graph. Barron's 22:1 Ja 26 '42

Civilian employment: war production, civilian production, agriculture, and non-agricultural proprietors, etc., 4th quarter, 1940-1942; chart. Survey of Cur Business 22:2 Ap '42

Construction employment in the United States, 1939-42. E. G. Hurlbut. Monthly Labor R 55:737-41 O '42

Detailed reports of industrial and business employment for December 1941. Monthly Labor R 54:810-20 Mr '42 [cont monthly]

Earnings and employment in the business cycle. J. H. Furth. R Econ Statis 24:136-42 Ag '42

Earnings and hours in Pacific Coast fish canneries. A. T. Sutherland. U S Women's Bur Bul 186:1-30; pa 10c Supt. of doc. '41

Effect of defense program on private manufacturing employment. T. F. Corcoran and H. F. Houghton. map Monthly Labor R 54:1-15 Ja '42

Effect of the war on textile employment. R. E. Clem. Monthly Labor R 55:446-58 S '42

Employment and pay rolls in Ohio; revised series, monthly, 1923-1941. Survey of Cur Business 22:17 Mr '42

Employment and working conditions, 1941. Survey of Cur Business 22:44-7 F '42

Employment in manufacturing in Colombia, 1939 and 1940. H. T. Hoffman. Monthly Labor R 54:927 Ap '42

Employment of women in wartime. Monthly Labor R 55:441-5 S '42

Employment situation in Canada, October 1941; unemployment statistics, by provinces. Monthly Labor R 54:635-6 Mr '42

Factory employment and payrolls, by industries (without seasonal adjustment) monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:60-1 Ja '42 [cont monthly]

Factory employment, by industries (adjusted for seasonal variation), monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:58-9 Ja '42 [cont monthly]

Geographic distribution of federal civilian employees, 1936-41. H. B. Byer and A. C. Edwards. map Monthly Labor R 54:919-26 Ap '42

Improved employment situation of older workers. M. T. Waggaman. Monthly Labor R 54:59-69 Ja '42

Indexes of employment early 1942 as compared with 1937; pictograph. Sales Management 50:32 Ap 20 '42

Labor turn-over in manufacturing, 1930-41. Monthly Labor R 54:1193-1205 My '42

Million workers on war construction jobs. Eng N 129:258 Ag 20 '42

Placement work of public employment services, December 1941. Monthly Labor R 54:675-80 Mr '42 [cont monthly]

Placement work of United States Employment service, first half of 1942. Monthly Labor R 55:482-3 S '42

Problems of readjustment in the postwar labor market. A. F. Hinrichs. Ann Am Acad 224:157-64 N '42

Record employment of 57,700,000 cuts deeply into labor reserve, says Conference board. Comm & Fin Chr 156:1447 O 22 '42

Relation between factory employment and output since 1899. S. Fabricant. 40p pa 25c Nat. bur. econ. research '42

School-leaving youth and employment. C. D. Long. 84p bibliog(p81-4) $1.60 Teachers college '41

Statistics of unemployment in general and industrial in various countries, yearly 1929-1940 and monthly 1941. Int Labour R 45:352-8 Mr '42 [cont quarterly]

Total nonagricultural employment; monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:59 Ja '42 [cont monthly]

Trend of employment and unemployment. Published in Monthly labor review

Wartime employment gains of 86 major cities. Adv & Sell 35:72-3 Ap '42

Women at work. Business Week p88+ O 10 '42

See also

Occupations—Statistics
Unemployment—Statistics

EMPLOYMENT agencies

Co-ordination of employment facilities in Queensland. Int Labour R 45:445-7 Ap '42

Doors to jobs; a study of the organization of the labor market in California. E. H. Huntington. 454p $3.50 Univ. of California press, Berkeley '42

Labour redistribution in Germany; the work of the Employment service. Beisiegel. Int Labour R 45:395-401 Ap '42

EMPLOYMENT agencies—*Continued*

New job agency; Los Angeles committee to direct men to defense work. Business Week p78+ D 13 '41

Newark employment clinic. Business Week p78 D 13 '41

Price regulation and the public utility concept: Olsen v. Nebraska. F. R. Simpson. J Land & Pub Util Econ 18:223 My '42

See also

Colleges and universities—Placement service

United States—Employment service

EMPLOYMENT contracts. See Labor contracts

EMPLOYMENT departments

Old army game; devices used by department heads to circumvent personnel procedures. E. J. Crosby. Personnel J 20:350-2 Ap '42

Top-management organization and control; extracts and reviews of report of research study made by P. E. Holden, L. S. Fish and H. L. Smith. Personnel J 20:243-53 Ja '42

EMPLOYMENT management

Air travel by employees. Management R 30: 461-3 D '41

Analysis of industrial morale. E. D. Chapple. bibliog J Ind Hygiene 24:163-72 S '42

Assessment organization and personnel. 429p $3.75 Nat. assn. of assessing officers, Chicago '41

By all means, discourage cliques. J. J. Jackson. il Textile World 92:78-9 Ag '42

Carter products, incorporated; does it pay to treat men as individuals? J. H. Hill. Factory Management 100:83+ F '42

Combating needless absenteeism. C. B. Coates. il Factory Management 100:92-7 N '42

Company policies on military and civilian service of employees. Monthly Labor R 55:473-7 S '42

Design for building good will; Nebraska power company. J. E. Davidson. Edison Elec Inst Bul 10:43-4 F '42

Developing the future executive; a study in personnel. L. B. Cuyler. East Underw 42: 79+ D 12 '41

Discipline problem; abstract. H. W. Jones. Management R 31:128-9 Ap '42

Do workers want to manage? Not when they understand the problems of management. W. Williams. Factory Management 100:92-3+ Je '42

80 points about technological changes; digest and commentary on report by J. W. Riegel. Personnel J 21:122-30 O '42

Elements of supervision. W. R. Spriegel and E. Schulz. 273p bibliog(p266-8) $2.25 Wiley '42

Employer and his labor relations. J. H. Mariano. 259p $2.75 Nat. public & labor relations service bur, 110 E. 42d st, New York '41

Employer's wartime responsibility. G. L. Hostetter. il Power Pl Eng 46:110 Ap '42

Fancy wages or steady job; counteracting high wage inducement of war production plants; Los Angeles railway. H. Jordan. Bus Transportation 21:350-1 Ag '42; Discussion. 21:405-7 S '42

Foreman and industrial relations. H. D. Farren and G. A. F. Brannon. Aero Digest 41:129+ S '42

How America must use its manpower. P. V. McNutt. Factory Management 100:58-63 Je '42

How RCA builds worker morale. il Factory Management 100:[1-16] pt 2 Mr '42

How the department store can improve its personnel relations. J Retailing 18:2-4+ F '42

How to create job enthusiasm. C. Heyel. 248p $2 McGraw-Hill '42

How to get the best results through employing women in war work. il Steel 110: 62-3 Je 29 '42

How we did it before; rapid construction and employment management in building Navy and munitions building, Washington, D.C. in 1918. il Eng N 129:236-8 Ag 13 '42

Human relations and personnel building in the coal-mining industry. O. G. Van Campen. Coal Age 46:37-8 Ag; 43-4 S; 45-6 N; 52-4 D '41; 47:49, 52 Mr '42

If I were a war-worker. R. A. Sutermeister. Personnel J 21:96-102 S '42

Importance of employee information. B. V. Drake. Special Lib 32:342-4 N '41

Industrial psychology. J. Tiffin. 386p $4.65; school ed $3.50 Prentice-Hall '42

Industrial relations; the human equation in industry. A. M. Rochlen. il Aero Digest 41:138, 255-6, 297-8 S '42

Industrial supervision. L. A. Froman and S. B. Mason. 341p $2.50 Foundation press, 222 W. Adams st, Chicago '42

Industrial supervision: controls. V. G. Schaefer and others. 267p bibliog(pix-xi) $1.75 McGraw-Hill '41

Industrial supervision: organization. V. G. Schaefer and others. 283p bibliog(pix-xi) $1.75 McGraw-Hill '41

Invited workers to "let down their hair"—and they did; North American Aviation. Factory Management 100:110-11 N '42

Job for advertising: check constantly on four vital points of contact; with employees, business contacts, customers and the general public. A. J. Mott. Ptr Ink 200:19-20 Ag 28 '42

Keep 'em happy, employee relations program; Cessna aircraft, Wichita. M. Russ. il Am Business 12:16-18 O '42

Labor policy for government plants. Monthly Labor R 55:462-5 S '42

Labor shortage; 18 ways to meet the problem. L. S. Flint. Inland Ptr 110:35-6 O '42

Lehigh spends real money for employe's welfare. il Rock Prod 45:39-40+ F '42

Management and labour; example of co-operation in works; British Thomson-Houston co. Electrician 128:273-5 Mr 27 '42

Management and morale. F. J. Roethlisberger. 194p $2 Harvard univ. press '41; Review (Industry also means people) by I. Knickerbocker. Mech Eng 64:38-9 Ja '42

Management, labor and technological change. J. W. Riegel. 187p $2.50 Univ. of Michigan press, Ann Arbor '42

Management methods program for the entire plant. D. M. Heider. charts Advanced Management 7:10-14 Ja-Mr '42

Management planning for using women war workers. H. Baker. Advanced Management 7:108-11+ Jl-S '42

Management's personnel responsibility for all-out war effort; proceedings of the Personnel and industrial relations conference, Purdue university, May 15-16. W. E. Vogler, ed. Purdue Univ Eng Ext Ser 54:1-74 '42

Matrons aid production. R. W. Koestner. Personnel J 21:163-4 N '42

Measuring wartime attitudes and morale. H. B. Bergen. Personnel J 21:2-9 My '42

Men as a tool for greater production. il Factory Management 100:68-87+ Ag '42

Mending our weakest links; Florida power & light company questionnaire to discover employees' attitude. M. Smith. Advanced Management 7:77-83 Ap-Je '42

Mining industry offers career for personnel engineers. J. A. Wilcox. Min & Met 23: 337 Je '42

Mr. Boss: meet the men in your shop. Am Business 12:21 Mr '42

Morale-building activities for war workers. E. L. Warner, jr. il Automotive & Aviation Ind 87:30-3+ Ag 1 '42

My company vs. our company. Power Pl Eng 46:65-6 Ja '42

New jobs for women. F. C. Minaker. il Am Business 12:23-4, 37-8 My '42

New management views in today's hysteria. O. G. Van Campen. Advanced Management 7:61-6+ Ap-Je '42

Office politics can be cut out for keeps. H. E. Fleming. Ptr Ink Mo 43:32+ D '41

Office supervisor, his relations to persons and to work. H. E. Niles and M. C. H. Niles. 2d ed 269p bibliog(p257-62) $2.50 Wiley '42

Open door grievance plans. O. C. Cool. Am Business 12:26-7+ Mr '42

EMPLOYMENT management—*Continued*

Overseer determines the pattern. J. J. Jackson. Textile World 91:104-5 D '41
People on your staff; building office manpower. E. J. Benge. Credit & Fin Management 44:16-18, 40 Je '42
Personal leadership in industry. D. R. Craig and W. W. Charters. 2d ed 245p $2.50 McGraw-Hill '41
Personalizing the process of placement; Bell telephone company of Canada. C. Fraser. Advanced Management 7:112-16, 173-9 Jl-S, O-D '42
Personnel management. Economist 141:791-2 D 27 '41
Personnel management and industrial relations. D. Yoder. 848p $5.65; school ed $4.25 Prentice-Hall '42
Planning organization in the groundwood mill. V. L. Tipka. Paper Ind 24:700-1, 703-4 O '42
Present-day foreman. W. L. Roscoe. Explosives Eng 20:72-4 Mr '42
Principles of employee counseling; abstract. M. Dreese. Management R 31:384-5 N '42
Principles of employment psychology. H. E. Burtt. rev ed 568p $4.50 Harper '42
Proceedings, fifth annual Tennessee industrial personnel conference held at Knoxville, Mar. 27-28, 1941. 91p James H. Williamson, sec-treas, Univ. of Tennessee, Knoxville '41
Proceedings of the third Personnel institute held at the Ohio state university, May 8, 1941. 74p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '41
Proceedings of the fourth Personnel institute held at the Ohio state university, May 6, 1942. 106p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '42
Protection against let-downs. D. G. Woolf. il Textile World 92:92-5 Jl '42
Psychiatry in personnel management. J. Haskins. Personnel J 20:338-45 Ap '42
Putting your workers right in the defense picture. W. G. Caldwell. il Am Business 11:9-11+ D '41
Reducing production costs through employee cooperation. E. Rowe. Eng & Min J 142:43-4 N '41
Release the full potentialities of the men; management of railway mechanical department employees. S. W. Selden and others. Ry Mech Eng 116:139-50 Ap '42
Report of committee on personnel practices. Am Gas Assn Proc 1941:55-8
Role of management as employer. R. W. Stone. J Business 14:11-26 pt 2 O '41
17 ways to meet the labor shortage; abstract. L. S. Flint. Management R 31:340-1 O '42
Sharing information with employees. A. R. Heron. 204p $2.50 Stanford univ. press '42
Shipyard morale. R. J. Scanlon. Personnel J 21:23-33 My '42
Solving the employer's labor problems under new deal legislation. H. B. Rector. 257p $6 Law research service, 712 Keith bldg, Cincinnati '42
Technique of executive control. E. H. Schell. 5th ed 252p $2 McGraw-Hill '42
These personnel policies hold employees. il Bankers Mo 59:304-6 Jl '42
This man Jack; gets production in ways that are strange to industry, even in wartime. il Business Week p72-4 Mr 7 '42
Top-management organization and control; extracts and reviews of report of research study made by P. E. Holden, L. S. Fish and H. L. Smith. Personnel J 20:243-53 Ja '42
Trouble in the mines. E. Rowe. Personnel J 20:172-6 N '41
Turnabout; Osborn manufacturing co. employees honor president. Business Week p87 F 14 '42
Use of job evaluation in application of time study; abstract. E. L. Berry and E. A. Berg. Foundry 70:96+ Je '42
Using manpower effectively; abstract. A. H. Young. Am Mach 86:sup75 Jl 9 '42
When management asks for union agitators. J. K. Westerfield. il Am Business 11:18-20+ N '41
Women in war work. M. H. Froelich. il Aero Digest 41:132+ S '42
Women on production at Monarch. W. E. Whipp. il Iron Age 150:59-63 N 5 '42; Same cond. Am Mach 86:1213-15 O 29 '42; Same cond. Mach 49:222-5 N '42
Women supervisors get more work out of women workers, Chicago meeting is told. Am Mach 86:742j Jl 9 '42
Women war-workers at Vultee aircraft. W. G. Tuttle. Personnel J 21:82-95 S '42
Worker morale as a personnel job. C. S. Slocombe. Personnel J 20:266-70 F '42
Working methods of Caterpillar's new president. E. Whitmore. il Am Business 11:9-11, 42-3 N '41
Working with unions; grievance procedures. W. I. McNeill and others. 27p Am. management assn, New York '42
Your job is at stake too, Mr Boss; tire situation; get your story across to the men by personal appeal. Bus Transportation 21:276-7 Je '42

See also

Ability tests
Applications for positions
Apprentices
Automobile factories—Employees
Bank employees
Bonus system
Building trades—Labor conditions
Bulletin boards
Collective bargaining
Employees
Employees, Reports to
Employees, Training of
Employees' manuals
Employees' representation in management
Employment departments
Employment systems
Executives
Factory management
Foremen
Government employees
Industrial management
Industrial relations
Instructions
Job analysis
Medical service, Industrial
Mine foremen
Music in industry
Night work
Organization in industry
Paper mills—Employees
Part time employment
Psychology, Industrial
Sabotage
Safety devices and measures
Sales management
Saving
Suggestion systems
Time study
Unemployment—Relief measures
Vacations
Wage payment plans
Welfare work in industry
Woman—Employment

Incentives

Building morale in British factories; effective posters carry fight talk to production lines. J. Monsarrat. il Aviation 41:54-5+ Ja '42
Charts that promote enthusiasm for maximum production. E. Caldwell. Steel 111:118+ S 14 '42
Conducting a war production drive; Symington-Gould corporation, New York. C. J. Symington. il Factory Management 100:84-5 Ag '42
Fundamentals for effective production promotion campaigns. L. Gibson. il Ind Marketing 27:28-9+ S '42
How to keep production drives going. A. M. Staehle. Ind Marketing 27:17-18+ Ag '42
How to plan an employee war production program; G.E. program. W. H. Green. il Ptr Ink 200:17-19+ S 11 '42
Independent Pneumatic Tool's produce the plus campaign. il Ind Marketing 27:13-16+ My '42
Let's go! say Cleveland defense workers; lapel emblems, posters, honor rolls, to stimulate defense work. il Factory Management 99:63+ D '41
Maintaining employee morale in wartime. W. W. Finlay and others. 40p Am. management assn, New York '42
Maintaining production; schemes to keep output up to maximum. Electrician 128:229-30 Mr 13 '42
Maintaining the morale of aircraft workers. il Aero Digest 40:110, 115-16, 121-2 Mr '42
Making war workmen proud of their jobs is victory essential. il Ptr Ink 199:69-70, 72-4 Ap 10 '42

EMPLOYMENT management—Incentives—*Continued*

Packard work to win competition inspires men, speeds up divisions. il Steel 110:68-9 My 18 '42

Packard's joint management production drive; friendly competition between workers and between departments, rewards for suggestions, slogans, merit badges, etc. R. G. French. il Am Business 12:10-11+ Ag '42

Production campaign unites employees in war effort; victory pledge, company newspaper, attendance contest used by Corbin screw corporation. J. D. Bates, jr. il Ptr Ink 199:17-18 My 22 '42

RCA's amazingly successful "beat the promise" campaign ups production. il Steel 110:34-7, 80, 94+ My 25 '42

RCA's beat the promise campaign. il Ind Marketing 27:28-9+ Ap '42

Sales contest technique brings more guns for navy; Northern pump co. merchandises high-speed war production to employees and management. il Ptr Ink 199:18+ Je 12 '42

Scoreboards and posters spurring war production. il Steel 110:56 Je 1 '42

Some aspects of non-financial and financial incentives. H. B. Maynard. Advanced Management 7:123-6+ Jl-S '42; Abstract. Trusts & Estates 75:345-6 O '42

These promotion methods sell war-importance of factory jobs. Ptr Ink 200:19 Ag 7 '42

35 ideas that stimulate workers' war effort: Timken activities. E. Peterson. il Ptr Ink 199:21-2, 24, 28 My 8 '42; Abstract. Management R 31:166-8 My '42

War production drive; labor-management committees, incentives, awards, and other promotion aids. Marine Eng 47:254-5 O '42

When workers get the will to win; practical morale-building methods. il Factory Management 100:42-4+ Ap; 58-67+ My '42

See also

Incentives in industry
Wage payment plans

New employees

Allis-Chalmers plan orients new employees. il Iron Age 149:92 Je 18 '42

New war workers assimilated through paid advertising; Gisholt machine co. il Ptr Ink 199:26 Je 19 '42

Welcoming the new man. R. Jones. il Factory Management 100:92-3+ My '42

Records

Business urged to make personnel inventory to meet tightening labor situation. O. S. Beyer. Comm & Fin Chr 156:1640 N 5 '42

Simple personnel record. F. E. Kunkel. Personnel J 21:66-7 Je '42

What personnel records reveal. S. W. Grimes. Paper Ind 24:493-4 Ag '42

See also

Errors, Employees'

EMPLOYMENT managers

How personnel can use advertising talent; advertising man transferred to personnel work. H. W. Bullard. Adv & Sell 35:38 Je '42

Personnel managers or personnel safety engineers. J. C. DeFoe. Power Pl Eng 46:96 Jl '42

Women personnel executives. M. E. Owens. Personnel J 20:298-316 Mr '42

EMPLOYMENT service. See United States—Employment service

EMPLOYMENT systems

Adapting labor to the aviation industry; N. A. Woodworth co. is taking on the butcher, baker, and housewife. C. S. Ricker. il Aviation 41:130, 137+ Jl '42

Begin now to train women and older people. L. B. Hershey. il Factory Management 100:60-1 F '42

Do your tests pick good workers? R. S. Solomon. Personnel J 20:177-83 N '41

Effects of seniority upon the welfare of the employee, the employer and society. D. H. Mater. J Business 14:384-418 O '41

Finding jobs for workers when war stops business; Colonial line. Am Business 12:31 My '42

Fitting workers to jobs. C. L. Shartle. Personnel J 20:328-32 Mr '42

Forecasting job efficiency. H. E. Garrett. Personnel J 20:276-8 F '42

Getting the best men available; New York Central hires all N.Y. clerical employees through central office. Ry Age 113:53+ Jl 11 '42

Government policy on discrimination in hiring aliens. Monthly Labor R 54:632-3 Mr '42

Government policy on employment of aliens. Comm & Fin Chr 156:191 Jl 16 '42

Hirings in Canada to be through employment offices. Monthly Labor R 55:228-9 Ag '42

How one firm selects college graduates; abstract. A. P. Johnson. Management R 30:408-9 N '41

How to have adequate man-power; using women, relaxing age and physical limits, etc.; use of statistics. il Ry Age 113:270-2 Ag 15 '42

Humm-Wadsworth temperament scale in job placement at Lockheed-Vega. F. E. Poole. Ind Med 11:260-3 Je '42

Increased efficiency and high performance standards definitely linked to fitting workman to job. O. G. Van Campen. Coal Age 46:45-6 N '41

Maintaining a high grade staff. J. S. Brown. Banking 34:27 Mr '42

Medical decisions and employee relations. H. W. Anderson. Ind Med 11:275-7 Je '42

Old army game; devices used by department heads to circumvent personnel procedures. E. J. Crosby. Personnel J 20:350-2 Ap '42

One answer to the labor shortage question; physically handicapped. Am Business 12:25+ Ja '42

Personalizing the process of placement; Bell telephone company of Canada. C. Fraser. Advanced Management 7:112-16, 173-9 Jl-S, O-D '42

Personnel expansion in defense industry; abstract. R. R. Irwin. Management R 31:11-13 Ja '42

Personnel selection by standard job tests. C. A. Drake. 147p $2 McGraw-Hill '42

Picking the best men; Pontiac motor division. il Am Business 11:18-19 D '41

Pirating banned; sixty leading war plants in Buffalo agree to voluntary pact. Business Week p90-1 N 7 '42

Placement of the worker. T. L. Hazlett. Ind Med 10:535-6 D '41

Policies for promotion and discharge; abstract. R. S. Livingstone. Management R 31:201-2 Je '42

Policy of nondiscrimination in employment of aliens; President's statement. Monthly Labor R 55:465-6 S '42

Poor war personnel work. R. Corliss. Personnel J 21:180-8 N '42

Railway personnel problems; how to select and train yard forces; committee report. Ry Age 111:917-18 N 29 '41

Recruiting office workers today; abstract. J. J. Goldie. Management R 31:299-300 S '42

Recruiting technical personnel at Monsanto. R. B. Semple. Chem Ind 51:198-9 Ag '42

Selecting men; abstract. O. W. Eschbach. Ry Age 111:920 N 29 '41

Selection of engineer personnel. P. R. Elfstrom. W Soc E J 47:30-4 F '42

Selection of subordinate personnel. H. C. Taylor. Mech Eng 63:807-10 N '41; Discussion. G. K. Bennett. 64:396-7 My '42

Skin sensitivity as a factor in job placement; Colt's patent fire arms manufacturing co. J. H. Biram. Ind Med 11:385-6 Ag '42

Standardization, harmonizer of human effort. D. F. Miner. Advanced Management 7:15-22 Ja-Mr '42

Substandard worker; physical examination and placement. P. J. Ochsner. Ind Med 11:283-5 Je '42

Training operators to handle war production work; Woodworth precision airplane engine parts. G. E. Stedman. il Steel 110:64-6, 68 Je 1 '42

EMPLOYMENT systems—*Continued*

Wanted, men over 50! advertisement turns up score of experienced inspectors. L. K. Urquhart. il Factory Management 100:76-7+ F '42

Warning against employing the unfit; abstract. I. S. Cutter. Ry Age 113:728+ N 7 '42

Written tests aid worker evaluation; Lycoming division of the Aviation corporation. il Am Mach 86:1165-7 O 15 '42

See also

Ability tests
Age
Applications for positions
Character tests
Civil service
Disabled—Rehabilitation
Employees—Promotion
Employees—Rating
Employees, Interchange of
Employment agencies
Insurance, Life—Agents—Selection
Job analysis
Labor recruiting
Salesmen—Selection

Advertising aids

British women are lured into war factory work by smartly applied advertising psychology. C. Chisholm. il Ptr Ink 198:13-14, 53-4 Ja 30 '42

Curtiss-Wright advertising solves employment problem. J. J. Foy. il Ptr Ink 201:17-18 O 2 '42

Help wanted, female. il Ptr Ink 201:13 O 23 '42

Stores hunt help. Business Week p68 O 3 '42

Interviews

Conducting the youth and employer interview; a reprint from The occupational follow-up and adjustment service plan. 29p Nat. assn. of secondary-school principals, 1201 16th st, NW, Washington, D.C. '41

Want ads

See Advertisements, Classified—Want ads

EMULSIFICATION

Effect of variation in emulsification technique of batching oils upon the spinning and measurable characteristics of jute. H. L. Parsons. Textile Inst J 33:P77-84 Je '42

See also

Dispersion

EMULSIFIERS

See also

Dispersing agents

EMULSIN

Action of almond emulsin on populin and on phenyl 2,4,6-trimethyl-β-D-glucoside. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:374-5 F '42

Influence of structural changes in the aglucons on the enzymic hydrolysis of alkyl β-D-glucosides. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:369-74 F '42

EMULSIONS

Emulsions and the war. A. King. Paint Oil & Chem R 104:9 Ja 15 '42

Emulsions and the war; abstract. A. King. Paint Oil & Chem R 104:18 My 7 '42

Essentials of emulsion paints; acceptance of emulsions. Oil Paint & Drug Rep 142:45-6 O 26 '42

Metal cleaning; using emulsifiable solvents, Emulso-dip or Emulso-spray. R. W. Mitchell. diags Iron Age 149:49-51 My 14 '42

Nature of emulsions; abstract. H. W. Rudd. Soap & San Chem 18:59 Jl '42

Some colloid-chemical news of the year; studies of emulsions and detergents. J. J. Bikerman. bibliog Chem Age (Lond) 46:26-7 Ja 10 '42

Synthetic resin emulsions for paper saturation and sizing; used as extenders for rubber latex and reclaim. R. T. Nazzaro. Paper Tr J 115:29-32 N 5 '42

Water emulsion paints; modern developments have produced resistant coatings. W. H. Butler. Can Chem & Process Ind 26:612+ O '42

See also

Asphalt—Testing

EMULSIONS, Photographic. See Photographic emulsions

ENAMEL and enameling

Adherence of glass to metals. R. M. King. bibliog Glass Ind 23:421-3+ N '42

American ceramic society meeting; abstracts of papers of interest to enamelers. Cer Ind 38:42, 44-6, 48 My '42

Antimony-free frits give better finish; release critical materials for war. H. L. Fields. Cer Ind 38:64 F '42

Ceramic batches; collection of recipes. Cer Ind 38:124+ Ja '42

Ceramics fighting on the home front; substitutes for metals. il Cer Ind 38:79-80 Ap '42

Ceramics help industry produce for defense; substitutes for metals. Cer Ind 38:55-6 Ap '42

Changes occurring in a cleaner bath during use. J. M. Zander. il Am Cer Soc Bul 20:434-7 D '41

Clay impurities thoroughly removed by new refining process. il plan Cer Ind 37:54-7 D '41

Effect of fineness of grinding of a ground enamel upon its characteristics; abstract. J. Lewerth and A. Dietzel. Am Cer Soc J 25 (Cer A 21):77 Ap 1 '42

Effect of firing treatment on physical properties of dry-process enamels. P. C. McCollom and R. R. Danielson. Am Cer Soc J 25:48-50 Ja 15 '42

Effect of iron oxide on tensile strength of porcelain enamel. A. M. Johnsen and J. J. Canfield. bibliog il Am Cer Soc J 25:29-32 Ja '42

Effect of set of enamels on hydrometer readings of the slip. H. L. Cook and C. H. Wolff. Am Cer Soc J 25:51-2 Ja 15 '42

Enamel shop operation under present restrictions on materials. H. L. Cook. Cer Ind 38:54+ Mr '42

Enameled bubble caps have longer life, clean easier than unsurfaced metal. Nat Pet N 34 pt 2:R205-6 Jl 29 '42

Heat treating in enamel plants contributes to war program. Cer Ind 39:39 S '42

How to clean enameling stock more thoroughly and quickly. D. J. Benoliel. Cer Ind 3:62+ F '42

How to operate a porcelain enamel plant at peak production. Steel 110:108+ My 18; 86+ Je 1 '42

Investigations at Mellon institute 1941-42; science in cast-iron enameling. Chem & Eng N 20:447 Ap 10 '42

Iron oxide in enamel glass as dissolved from the metal base. A. I. Andrews and H. R. Swift. il Am Cer Soc J 25:217-22 My 1 '42

Mechanical handling aids plant expansion; Florence stove co. H. H. Slawson. il diag Steel 110:58, 60, 69 Ja 12 '42

Molybdenum in enamels; adherence produced with soluble and insoluble molybdates. K. Kautz. Am Cer Soc J 25:160-3 Mr 15 '42

Need new design for porcelain enameled milk cans. J. J. Theodore. Cer Ind 39:56 Ag '42

New porcelain enamel substitutes replace metal needed for war; Erie enameling co. il Cer Ind 39:34-5 O '42

New substitute finish; vitreous silver finish; abstract. H. J. Kroesche. Metals & Alloys 16:778 O '42

Porcelain enamel as a protective coating for hot-water tanks. D. R. Goetchius. bibliog Am Cer Soc J 25:164-8 Mr 15 '42

Porcelain enamel in war work. C. S. Pearce. Am Cer Soc Bul 21:162-4 Ag 15 '42

Produce better enameled products by radiation pyrometer control; abstracts. W. A. Barrows. il Cer Ind 37:44+ N '41; Steel 110:67-8+ Ja 26 '42

Report of American ceramic society committee on research for 1941-1942. Am Cer Soc Bul 21:92-3 Je 15 '42

Rust-proof coatings for manifolds; porcelain enamel coating. R. H. Wendt. il Aero Digest 41:162 O '42

ENAMEL and enameling—*Continued*

Securing war work contracts is similar to obtaining peacetime orders; Baltimore enamel & novelty co. surveys local prime contractors for orders. A. F. Macconochie. il Cer Ind 39:40, 42+ S '42

Specifications and tests of ceramic raw materials; enameling materials. Cer Ind 38:117+ Ja '42

Titanium oxide as an ingredient of porcelain enamel frits. S. G. Tinsley. Cer Ind 38:36, 38-9 Mr '42

Welded tank enameled inside and out. il diag Product Eng 13:10 Ja '42

What enamelers are doing to stay in business. Cer Ind 38:31-2 Je; 34 Jl '42

Zirconium oxide and thorium oxide in ceramics. N. J. Kreidl. Am Cer Soc J 25:129-41 bibliog(p138-41) Mr 1 '42

See also

Enameled ware

Sheet metal, Enameled

Bibliography

Ceramic abstracts. Published in monthly numbers of American ceramic society Ceramic abstracts and Bulletin

Color

Boron-free colored enamels for sheet and cast iron; abstract. H. Lang. Am Cer Soc Bul 21 (Cer A 21):98 My 15 '42

Factors influencing colors of porcelain enamels; abstract. R. L. Cook and A. I. Andrews. Cer Ind 38:42+ My '42

Defects

Cause of defects in enamel fired on cast iron at temperatures above 725°C. C. A. Zapffe. il Am Cer Soc J 25:175-80 Ap 1 '42

Chips, fish scales, and shiners. C. A. Zapffe and J. L. Yarne. il Am Cer Soc J 25:194-203; Discussion. 203-5 Ap 1 '42

Crazing in boron-free enamel for cast iron; abstract. Am Cer Soc Bul 21 (Cer A 21):98-9 My 15 '42

Further considerations of hydrogen as a cause of enamel defects. C. A. Zapffe and C. E. Sims. bibliog il Am Cer Soc J 25:205-15 Ap 1 '42

How to eliminate fishscaling in porcelain enameled ware. W. W. Higgins. il Cer Ind 37:48, 52 D '41

Investigation of fish-scale phenomena. W. W. Higgins and W. A. Deringer. flow sheet bibliog il Am Cer Soc J 24:383-92 D '41

Relation of surface oxidation to certain defects in enamel coatings on steel. C. A. Zapffe and J. L. Yarne. il Am Cer Soc J 25:191-4 Ap 1 '42

Scratch blisters. C. A. Zapffe and J. L. Yarne. il diags Am Cer Soc J 25:180-90 Ap 1 '42

Testing

Accelerated weathering of porcelain enamels; abstract. G. H. Spencer-Strong and W. G. Cooper. Cer Ind 38:48 My '42

Relative weather resistance of various porcelain enamels. W. N. Harrison and D. G. Moore. il Cer Ind 39:26-8 N '42

Resistance of enamels to thermal shock. E. E. Howe and E. P. Bolin. bibliog il Am Cer Soc J 25:463-6 N 1 '42

Weather resistance of porcelain-enameled iron structural units. W. N. Harrison and D. G. Moore. bibliog pls J Research Nat Bur Stand 28:735-54 Je '42; Abstract. Cer Ind 38:44-5 My '42

ENAMEL and enameling (paints, etc.) See Automobiles—Painting and finishing; Lacquer and lacquering; Paint; Painting, Industrial

ENAMELED sheet metal. See Sheet metal, Enameled

ENAMELED ware

Plant man reports his experience with zircon enamel frits. G. B. Fulton. il Cer Ind 37:78+ D '41

Resistance of enamels to thermal shock. E. E. Howe and E. P. Bolin. bibliog il Am Cer Soc J 25:463-6 N 1 '42

WPB places more restrictions on enamel utensil industry. Cer Ind 39:35 O '42

Manufacture

Annual review section. il Cer Ind 38:85-106 Ap '42

Enameling plant converts to war production. A. F. Macconochie. il diags Steel 111:54-5, 74, 76+ Ag 24 '42

How to operate a porcelain enamel plant at peak production. Steel 110:108+ My 18; 86+ Je 1 '42

Standards

Multiple-coated, porcelain-enameled steel utensils. diags U S Nat Bur Stand Commercial Standard CS100-42:1-17 '42

ENAMELING furnaces. See Furnaces, Enameling

ENARGITE

Progress reports, Metallurgical; silver-recovery studies; some factors affecting flotation of the silver-bearing minerals tennantite and enargite. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3661:1-23 '42

ENCEPHALOMYELITIS

Properties of the isolated macromolecular component of normal chick emryo tissue. A. R. Taylor and others. bibliog Science 94:613-15 D 26 '41

Purification of the virus of mouse encephalomyelitis (Theiler's virus). S. Gard and K. O. Pedersen. Science 94:493-4 N 21 '41

ENCYCLOPEDIAS

Encyclopedia Americana. 1942 ed 30v $144.50-$164.50 Americana corp, 2 W. 45th st, New York '42

Facts, the new concise pictorial encyclopedia. N. Braddy, L. H. Dawson and R. Friedenthal, eds. new rev ed 1268p $4.95 Doubleday '41

New international year book; a compendium of the world's progress for the year 1941. C. E. Funk, R. S. Kain and M. Harmon, eds. 766p $6.25 Funk & Wagnalls co, New York '42

ENDICOTT JOHNSON corporation

Thumbnail stock appraisal. Mag of Wall St 69:263 D 13 '41

ENEDIOLS. See Hydroxy compounds

ENEMY aliens

Alien enemy label lifted from Italians. Comm & Fin Chr 156:1553 O 29 '42

Aliens, but useful; acute problems for California business and agriculture. Business Week p66-7 F 21 '42

Foreign funds control; special regulation issued by the Federal reserve bank of San Francisco as fiscal agent of the United States; transactions in property of persons evacuated from Pacific coast. Fed Res Bul 28:308 Ap '42

How commissioners view enemy alien assureds. Spectator (Property ed) 7:12-16 Mr 5; 10-14+ Ap 30 '42; Same. Spectator (Life ed) 148:6-9+ Mr 12; 6-9, 14-15 My 7 '42

Moving the aliens. Business Week p26+ Mr 7 '42

Procedure for dealing with nationals outlined. Nat Underw 46:5+ F 12 '42; Same. Nat Underw (Life ed) 46:8-9 F 27 '42

Protection of evacuees' interests by the Federal reserve bank of San Francisco. Fed Res Bul 28:321-2 Ap '42

Rights of enemy aliens in court under Michigan law. Nat Underw (Life ed) 46:8 Mr 13 '42

Summarizes regulations on dealing with nationals. R. H. Matthias. Nat Underw 46:4 F 19 '42

ENEMY property

Alien property custodian; appointment of deputy custodian; regulations. L. T. Crowley. Fed Res Bul 28:430-2 My '42

Alien property custodian; executive order allocating powers. Fed Res Bul 28:759-62 Ag '42

Alien property custodian; executive order establishing office. Fed Res Bul 28:306-7 Ap '42

ENEMY property—*Continued*

Alien property custodian grabs 80 Jap patents. Oil Paint & Drug Rep 141:7 Je 1 '42
Alien property custodian has 13,000 patents. Oil Paint & Drug Rep 142:59 O 19 '42
Alien property custodian seizes enemy holdings. Comm & Fin Chr 156:995 S 17 '42
Alien property custodian seizes German patents and copyrights. Oil Paint & Drug Rep 142:3+ O 5 '42
A.P.C. seizes Jungmann and S.K.S. dyestuff; Buffalo Electro-Chemical debt to German interest; American Potash stock; Pen-Chlor patent interest of I.G. Oil Paint & Drug Rep 142:3+ N 2 '42
Alien property custodian seizes more companies. Oil Paint & Drug Rep 142:5+ Ag 3 '42
APC vests 37 percent of Rohm & Haas stock and 28 percent of Resinous products. Oil Paint & Drug Rep 142:3+ S 14 '42
Alien property division for seized assets. Comm & Fin Chr 155:31 Ja 1 '42
All want to hold it; no alien property bargains. Oil Paint & Drug Rep 141:5 Mr 2 '42
Buffalo Electro-Chemical stock control seized. Oil Paint & Drug Rep 142:4 O 5 '42
Copyrights seized as alien property. Oil Paint & Drug Rep 141:7+ Je 1 '42
Crowley named alien property custodian. Comm & Fin Chr 155:1149 Mr 19 '42
Deutsche Scheideanstalt patents seized by U.S. Oil Paint & Drug Rep 141:5+ Je 15 '42
Documents pertaining to foreign funds control. 84p U.S. Treasury dept, Washington '42
Enemy carrier in license test; Swiss National loses suit against U.S. Attorney General and Treasurer. Weekly Underw 147:209+ Ag 1 '42
Enemy properties, copyrights, 750 patents seized by United States. Steel 110:36-7 Je 29 '42
Further seizure of enemy-owned patents. Comm & Fin Chr 156:110 Jl 9 '42
General Dyestuff, Byk, inc., and Ajax transportation company taken over by A.P.C. Oil Paint & Drug 142:4 Jl 6 '42
German quinine process seized. Oil Paint & Drug Rep 142:3 Jl 13 '42
No peace with I. G. farben; case against the cartel system. map Fortune 26:104-7+ S '42
Patents in all lines seized on Presidential order. Oil Paint & Drug Rep 141:7+ Ap 27 '42
Patents seizure program outlined. L. T. Crowley. Oil Paint & Drug Rep 141:5+ My 4 '42
Pending on patents; current to-do over foreign cartel alliances. Business Week 20+ Ap 25 '42
President divides control over alien property. Comm & Fin Chr 156:282 Jl 23 '42
President orders seizure of enemy-owned patents. Comm & Fin Chr 115:1711 Ap 30 '42
Rare Chemicals sale has only one bidder; first sale by alien property custodian. Oil Paint & Drug Rep 142:3+ Jl 27 '42
Rare Chemicals sold to National Oil Products. Oil Paint & Drug Rep 142:3+ Ag 10 '42
Regulations establishing Vested property claims committee. Fed Res Bul 28:208-9 Mr '42
Seized alien patents not to be sold now. Comm & Fin Chr 135:1784 My 7 '42
Seizes Japanese assets. Comm & Fin Chr 156:891 S 10 '42
Title of enemy ships has been transferred to alien property custodian. Weekly Underw 147:278 Ag 8 '42
Treasury given control over alien-owned property. Comm & Fin Chr 155:954 Mr 5 '42
2,000 alien patents seized by United States. Aviation 41:184 Jl '42
U.S. seizes patents of Standard-I.G. Oil Paint & Drug Rep 141:4+ Ap 6 '42
U.S. seizes 200 more I.G. Farben. patents. Oil Paint & Drug Rep 141:4+ Je 29 '42
U.S. takes over from the enemy. Business Week p15-16 Je 6 '42

ENERGY level. See Atoms; Quantum theory

ENGINEER corps. See United States—Army—Engineer corps

ENGINEERING

Contribution of statistics to the science of engineering. W. A. Shewhart. Metal Prog 41:854+ Je '42
Engineer and the engineering method. A. R. Gruehr. bibliog Elec Eng 61:465-8 S '42
Engineer and the war. H. A. Winne. Gen Elec R 45:207-9 Ap '42
Engineering aspects of industrial scrap salvage; papers read at meeting, New York, April 28. il diags Mech Eng 64:449-62 Je '42
Engineering field. il Mo U Sch Mines & Met Bul general ser v 34, no 2B:1-24 '42
Engineering fundamentals. diags Diesel Power 19:961+, 1042+; 20:139+, 218, 220, 410-11+, 586+, 657+, 758+, 927-8 N-D '41, F-Mr, My, Jl-S, N '42
Engineering News events of 1941; chronological summary. Eng N 128:82-3 Ja 15 '42
Engineering profession and the student. C. F. Scott. J Eng Educ 32:511-17 Mr '42
Geologist in public works. C. P. Berkey. Geol Soc Bul 53:513-31 Ap '42
Mathematics of modern engineering; v. 2, Mathematical engineering. E. G. Keller. 309p $4 Wiley '42
Post-war prospects in the light of present developments. G. F. Nordenholt. il Product Eng 13:308-11 Je '42
Rational planning for post-war design. E. W. Thomas, W. F. Cassie and A. H. A. Hogg. Engineering 154:135-6 Ag 14 '42
Relations between engineering and science; part of address printed in Science, March 23, 1917. H. M. Howe. Science 95:326 Mr 27 '42
Scientists face the world of 1942. K. T. Compton; R. W. Trullinger; V. Bush. 80p $1.25 Rutgers univ. press, New Brunswick, N.J. '42
Wartime engineering. A. N. Goldsmith. RCA R 6:395-415 Ap '42; Same. Inst Radio Eng Proc 30:319-28 Jl '42
Your career in engineering. N. V. Carlisle. 253p $2.50 Dutton '42

See also

Aeronautic engineering
Aeronautics
Air conditioning
Airports
Aqueducts
Architecture
Blasting
Bridges
Building
Building materials
Canals
Chemical engineering
City planning
Civil engineering
Concrete construction
Construction equipment
Culverts
Dams
Docks
Drainage
Dredging
Drilling and boring (earth and rocks)
Earthwork
Efficiency, Industrial
Electric engineering
Engineers
Foundations
Gas engineering
Girders
Grouting
Heating
Highway engineering
Hydraulic engineering
Industrial engineering
Irrigation
Lighting
Machinery
Marine engineering
Masonry
Mechanical engineering
Mechanical handling
Military engineering
Mining engineering
Municipal engineering
Pavements
Petroleum engineering
Pipe laying
Public works
Pumping
Radio engineering
Railroad engineering
Railroads—Construction
Refrigerating engineering
Refrigeration and refrigerating machinery
Reservoirs
Rivers
Roads
Sanitary engineering
Sewerage
Steam engines
Steel construction
Strains and stresses
Streets
Strength of materials
Structural engineering
Subways
Surveying
Technology
Traffic engineering
Tunnels and tunneling
Ventilation
Water supply engineering

ENGINEERING—*Continued*

Bibliography

Additions to the library. Inst Mech Eng J & Proc 146:105-6 D '41 [cont monthly]

Book notes and reviews; the month's additions to the engineer's reading and reference list. Eng N 128:209 Ja 29 '42 [cont monthly]

Engineer's bookshelf. Published in monthly numbers of Power

For the engineer's library; catalogs and new engineering books. Published in monthly numbers of Power plant engineering

New books in the Engineering societies library. Published in monthly numbers of Electrical engineering

New technical books; a selected list on industrial arts and engineering added to the New York public library. Published quarterly by the New York public library, New York

Reviews of books and notes on books received in the Engineering societies library. Published in monthly numbers of Mechanical engineering

See also

Technology—Bibliography

Costs

Engineering economic analysis. C. E. Bullinger. 359p bibliog(p349-52) $3.50 McGraw-Hill '42

Encyclopedias

Engineering encyclopedia; a condensed encyclopedia and mechanical dictionary for engineers, mechanics, technical schools, industrial plants and public libraries. F. D. Jones, ed. 2v 1431p $8 Industrial press, New York '41

Estimates

Ratefixing and estimating for engineers. J. C. Freeman. 128p $3 Pitman '41

Examinations

Professional licensing examinations, the University of the state of New York. Am Inst Chem Eng Trans 38:B107-17 Ag '42

Social aspects

Democracy in its struggle looks to the engineer. D. D. Ewing. Elec Eng 61:402-5 Ag '42

Engineer and society. S. W. Melsom. Inst E E J 89 pt 1:59-60 Ja '42

Engineer in modern society. A. Van Dyck. Inst Radio Eng Proc 30:305-8 Jl '42; Discussion. L. T. Bird. 30:485 O '42

Engineer's last in the postwar world. D. C. Prince. Elec Eng 61:393-6 Ag '42

Greater future of engineering. F. Bass. Civil Eng 12:353-4 Jl '42

Philosophy of engineering education. R. L. Sackett. Mech Eng 64:340-2+ My '42

Power to create the new. R. C. Knox. J Eng Educ 33:163-8 O '42

Professional development and responsibility. R. E. Doherty. Mech Eng 64:10-12 Ja '42

Study and teaching

Educational and training program at General Electric. A. R. Stevenson, jr., M. M. Boring and T. C. Johnson. bibliog Mech Eng 64:217-20 Mr '42

Instructor's responsibilities in the learning process. B. V. Moore. J Eng Educ 32:812-18 Je '42

Plan for special acceleration of the study for senior engineering students of superior ability. P. F. Nemenyi and R. L. Lewis. J Eng Educ 32:855-65 Je '42

Taking the cream off engineering; teaching of physics. W. B. Pietenpol. J Eng Educ 32:640-4 Ap '42

See also

Engineering colleges
Engineering education

Tables, calculations, etc.

Engineer's pocket book of tables, formulæ and memoranda. F. J. Camm. 492p $4.25 Chemical pub. co. '42

Imaginary in engineering mathematics. G. W. Stubbings. Electrician 127:331 D 12 '41

Technidata hand book. E. L. Page. 64p $1.50; pa $1 Henley '42

Terminology

Language of instrumentation; some problems of terminology, letter symbolism, graphic symbolism, etc. Instruments 15:298-305+ Ag '42

Terminology of turbines, pumps, and fans. H. Addison. Engineer 173:349 Ap 24 '42

— China

British and Chinese co-operation; work of British engineers in China. Engineer 174:322 O 16 '42

Development of mechanisms in ancient China. H. Chatley. Engineering 153:175-6 F 27 '42

Malaya, British

Engineer in Malaya. C. A. M. Smith. maps Engineer 172:426-8, 446-8 D 19-26 '41

Mexico

Construction hits new high in Mexico. A. N. Carter. il Eng N 128:610-14 Ap 23 '42

Netherlands Indies

Engineer in the East Indies. C. A. M. Smith. il map Engineer 173:218-19+, 240-2, 260-1 Mr 13-27 '42

Russia

Engineering in U.S.S.R.; abstracts. A. P. M. Fleming. Electrician 128:613-15 Je 19 '42; Elec R (Lond) 130:821 Je 26 '42; Engineering 153:516 Je 26 '42; Discussion. H. R. Vowles. Engineering 154:34 Jl 10 '42

Industrial history of Russia. E. C. Smith. Engineering 152:424-5, 503-4 N 28, D 26 '41

ENGINEERING colleges

Acceleration of engineering programs; summary of replies to questionnaire. J Eng Educ 32:708-10 My '42

Analysis of educational speed-up plans. L. E. Grinter. J Eng Educ 32:518-22 Mr '42

Carnegie study of the libraries of technological colleges. T. R. Barcus. J Eng Educ 32:424-33 Ja '42

Co-operative relations with universities; A.R.E.A. committee report. Ry Age 112:597-8 Mr 21 '42

Coördination of industry with engineering colleges. W. Mathesius. J Eng Educ 32:307-12 D '41

Electrical laboratories; types of equipment required for technical colleges. G. H. Rawcliffe. Elec R (Lond) 131:489-90 O 16 '42

Engineering college and the war. A. H. White. J Eng Educ 32:405-6 Ja '42

Engineering corps and the college. R. C. Crawford. J Eng Educ 33:20-6; Discussion. 44-5 S '42

Evidence concerning efficiency of accelerating engineering education. S. W. Beardsley, J. M. Schweers and R. Fleisig. J Eng Educ 33:157-62 O '42

Host institutions for the fiftieth annual meeting. il J Eng Educ 32:494-503, 608-16, 714-21 Mr-My '42

1941 annual report to Engineers' council for professional development. R. E. Doherty. Mech Eng 63:893-5 D '41

Northwestern technological institute dedicated with elaborate ceremonies. il Eng N 128:968 Je 18 '42; Mech Eng 64:574 Jl '42

Northwestern university opens its Technological institute; will feature cooperative engineering courses to promote industry and transportation. Ry Age 112:1216+ Je 20 '42

Report of committee on acceleration of regular engineering programs. J Eng Educ 32:407-10 Ja '42

Report of the committee on acceleration of the regular engineering program. J Eng Educ 33:155-7 O '42

ENGINEERING colleges—*Continued*

Responsibility of the engineering college for present chaos in industrial relations. T. W. Prior. J Eng Educ 32:467-71 Ja '42

So, you want to be a petroleum engineer? petroleum engineering schools of the United States. L. C. Uren. il Pet Eng 13: 31-4 My '42; 86+ Je '42

So, you want to be a petroleum engineer? selecting your alma mater. L. C. Uren. il Pet Eng 13:76-8, 81 Ap '42

Task of the engineering colleges in the war effort. W. L. Batt. J Eng Educ 33:182-9; Discussion. 189-92 O '42

Technological institute of Northwestern university; structural data, plans, views. D. M. Nelson. Arch Rec 92:37-44 Ag '42

War department's needs for engineers. W. H. Kushnick. J Eng Educ 33:70-5 S '42

See also

Engineering education

Engineering graduates

Engineering students

Mining schools and education

also names of colleges, e.g.

Illinois institute of technology

Massachusetts institute of technology

New York university—College of engineering

Northwestern university—Institute of technology

Curriculum

Comparison of possible non-technical sequences with technical sequences in the engineering curricula. W. O. Birk. J Eng Educ 32:335-40 D '41

Course content in aircraft structures. N. J. Hoff. J Eng Educ 32:833-40 Je '42

Electronics and communication courses in American colleges. Electronics 15:84+ S '42

Functions of physics courses in the engineering curricula. E. P. Slack. J Eng Educ 32:361-4 D '41

List of undergraduate curricula accredited by ECPD as of Oct. 30, 1941. Elec Eng 60:609 D '41

New curriculum in electrical engineering at Lehigh university. L. V. Bewley. J Eng Educ 32:434-51 Ja '42

Present day transportation curriculum. J. S. Worley. J Eng Educ 32:767-70 My '42

Revision of the undergraduate curriculum in civil engineering. J. K. Finch. J Eng Educ 32:728-31 My '42

Science and technology in the engineering curricula; contributions of work experience. O. W. Eshbach. J Eng Educ 32:324-7 D '41

Suggested design for mechanical engineering curricula. F. L. Wilkinson, jr. Mech Eng 63: 581-4+ Ag '41; Discussion. 64:141-5 F '42

Enrollment

Enrollment undergraduate and graduate engineering students, as of October 6, 1941; tabulation. J Eng Educ 32:388-403 D '41

Graduate work

Evening courses at graduate levels; a challenge to colleges of engineering. R. Beach. Elec Eng 61:Trans 88-94 F '42

Evening graduate programs in the New York metropolitan region. E. Hausmann. J Eng Educ 32:649-66 Ap '42

Graduate engineering enrollment, 1941-42; tabulation. J Eng Educ 32:397-403 D '41

Post-graduate training for engineers; National post-graduate school proposed. M. W. H. Davies. Engineering 153:364 My 8 '42

Laboratories

See Engineering laboratories

Personnel service

Mentor system; a personnel system for engineering freshmen. A. D. Moore. bibliog J Eng Educ 32:753-66 My '42

Student selection

Engineering aptitudes; their definition, measurement, and use. C. V. Mann. bibliog diags J Eng Educ 32:673-86 Ap '42

ENGINEERING contracts

Appraising the Vinson bill. C. A. Baker. Civil Eng 11:741-2 D '41

Contractors on public work benefited by legal decisions; Callahan and Hirsch cases. G. R. Shields. Eng N 128:201-3 Ja 29 '42

Cut cost of concrete deliveries; contract to protect ready-mixed producer when bad roads cause truck damage and delays. il Rock Prod 45:101-2 Ag '42

Delivery and taking over of heavy electrical plant. Engineer 173:489-91 Je 12 '42

Engineer as a negotiator. P. R. Elfstrom. W Soc E J 46:311-16 D '41

Engineer's view of well drilling contracts. E. A. Bell. Am Water Works Assn J 34: 678-80 My '42

Form and arrangement of specifications. R. T. Retz. Civil Eng 12:135-6 Mr '42

Procedure in bidding and building a lump-sum camp job. il Eng N 128:726, 730, 732 Ap 23 '42

Relationship between the well drilling contractor and the owner. E. D. Every. Am Water Works Assn J 34:681-3 My '42

War construction projects from a contractor's viewpoint. Eng N 128:874 My 21 '42

War damage clause inserted in all engineer contracts. Eng N 128:233 F 12 '42

ENGINEERING departments

Aircraft industrial research; Lockheed aircraft corp. M. Nelles. il Aero Digest 40:201-2, 205-6+ F '42

Automobile engineering organization and procedure. C. R. Paton, R. F. Kohr and M. A. Forester. S A E J 50:439-43+ O '42

Engineering organization of a large industrial business; General electric company. R. C. Muir. Elec Eng 61:424-6 Ag '42; Same. Gen Elec R 45:435-7 Ag '42; Discussion. Elec Eng 61:427-8 Ag '42

Liaison engineering. C. H. Speck. il Aero Digest 40:188, 190+ F '42

Methods engineering. C. H. Speck. il Aero Digest 40:292, 295-6 Ja '42

New uses for photography in the engineering department. il Product Eng 13:598-601 O '42

Photostat-tracings save drafting room time; Lockheed aircraft corporation. L. C. Jones. il diags Product Eng 13:653-5 N '42

ENGINEERING drawing

Importance of engineering drawing to a chemical engineer. R. C. Kintner. W Soc E J 47:202-7 O '42

Industrial drawing. H. R. Thayer. 195p $1.75 McGraw-Hill '42

Intermediate engineering drawing, including a course in plane and solid geometry, and an introduction to design. A. C. Parkinson. 2d ed 187p $3 Pitman '39

Manual in engineering drawing. H. C. Hesse. 118p pa $1.50 Macmillan '42

Perspective drawings speed plane assembly. il diags Aviation 41:118-20 Je '42

Production breakdown illustration. G. Tharratt. diags S A E J 50:408-16 S '42; Abstract. Automotive Ind 85:24-8+ D 15 '41

Production illustrations; production shortcut for every metal-working plant; system developed by Douglas aircraft co. il diags Steel 111:56-8, 60+ Ag 24 '42

Reading engineering drawings. G. F. Bush. 60p bibliog(p54-5) Wiley '42

Three-dimensional views boost plane production; assembly operations are simplified. il diags Am Mach 86:505-9 My 28 '42

Using isometric drawings to speed assembly; Douglas aircraft company. il diags Factory Management 100:73-82 Je '42

See also

Drafting room practice

ENGINEERING economics

Engineering economic analysis. C. E. Bullinger. 358p $3.50 McGraw-Hill '42

Interesting the electrical engineering student in engineering economy. R. C. Putnam. J Eng Educ 32:529-37 Mr '42

ENGINEERING education

Backward look for a forward plan; need for reformulating our educational system. F. C. Hockema. Elec Eng 61:406-14 Ag '42

Critical review of education and training for engineers. A. P. M. Fleming. Inst E E J 89 pt 1:376-88 S '42; Abstract. Elec R (Lond) 130:367-8 Mr 20 '42; Discussion. Inst E E J 89 pt 1:388-435 S '42; Elec R (Lond) 130:401-2, 625-6 Mr 27, My 15 '42; Electrician 128:280-2, 476-9 Mr 27, My 15 '42

Education of engineers; a criticism of the present system. G. W. Stubbings. Elec R (Lond) 130:331-2 Mr 13 '42

Engineer and defense. A. A. Potter. W Soc E J 46:251-4 O '41

Engineering courses; their objectives, organization, and direction. H. S. Rogers. Mech Eng 64:208-10 Mr '42

Engineering education. N. V. Pestereff. Engineer 174:153-4 Ag 21 '42

Engineering education held vital to victory; abstract. K. T. Compton. Elec W News ed 117:157 Ja 17 '42

Engineering education in perspective. L. G. Straub. Civil Eng 12:71-2 F '42

Engineering education; Institution of civil engineers memorandum. Engineer 174:57-9 Jl 17 '42

Engineering training for the operating work of industry. D. S. Bridgman. J Eng Educ 32:566-72 Mr '42

English in engineering, in college and after college. H. P. Hammond. J Eng Educ 32:596-601 Mr '42

Evidence concerning efficiency of accelerating engineering education. S. W. Beardsley, J. M. Schweers and R. Fleisig. J Eng Educ 33:157-62 O '42

Government-sponsored engineering education program urged. T. Saville. Eng N 129:451 O 1 '42

Industrial arts courses in the training of an engineer. E. L. Williams. J Eng Educ 32:807-9 Je '42

National roster and wartime engineering education. L. Carmichael. J Eng Educ 33:52-8 S '42

Past and future education of engineers. C. E. MacQuigg. Mech Eng 64:657-8 S '42

Philosophy of engineering education. R. L. Sackett. Mech Eng 64:340-2+ My '42

Post-graduate training for engineers: National post-graduate school proposed. M. W. H. Davies. Engineering 153:364 My 8 '42

Teaching as engineering. F. W. Thomas. J Eng Educ 32:732-8 My '42

Technical man-power; problem of supply and demand of engineers for war requirements. Engineer 172:421-2 D 12 '41; Elec R (Lond) 129:663-4 D 12 '41

University education of engineers. C. E. Inglis. Engineering 152:365, 384-5, 404-5 N 7-21 '41; Same cond. Engineer 172:319-20; 327-8 N 7-14 '41

University training and the gas industry. D. T. A. Townend. Gas J (Lond) 238:519-20, 523-4 Je 24 '42; Discussion. 239:103+ Jl 15 '42

What constitutes an education? E. McAuliffe. Min & Met 23:325 Je '42

See also

Apprentices
Chemical engineering—Study and teaching
Civil engineering—Study and teaching
Cooper union
Electric engineering—Study and teaching
Engineering—Study and teaching
Engineering colleges—Curriculum
Engineering laboratories
Engineering students
Engineers' council for professional development
Massachusetts institute of technology
Mechanical engineering—Study and teaching
Military engineering—Study and teaching
Mining schools and education
Technical education

Cooperative plan

Co-operative education. M. Ellingson. Mech Eng 64:659-61 S '42

Dedication of the Technological institute of Northwestern university. Science 95:523-4 My 22 '42

Northwestern university opens its Technological institute; will feature cooperative engineering courses to promote industry and transportation. Ry Age 112:1216+ Je 20 '42

Science and technology in the engineering curricula; contributions of work experience. O. W. Eshbach. J Eng Educ 32:324-7 D '41

See also Northwestern university—Institute of technology

History

History of instruction in heat power in the United States. A. M. Greene, jr. J Eng Educ 33:112-25 O '42

Russia

Technical education in the U.S.S.R. W. R. Stoker. Engineer 172:330-1 N 14 '41

ENGINEERING ethics

Forum on professional relations. D. W. Mead. Civil Eng 12:628 N '42

Standards of professional relations and conduct. D. W. Mead. 31p bibliog(p30-1) pa 50c; to members 25c Am. soc. of civil engineers, New York '41

Wartime engineering. A. N. Goldsmith. RCA R 6:395-415 Ap '42; Same. Inst Radio Eng Proc 30:319-28 Jl '42

ENGINEERING foundation

Annual meeting, Oct. 23. Elec Eng 61:57-9 Ja '42

ENGINEERING graduates

Analysis of the needs for engineers. A. M. Greene. J Eng Educ 33:176-81 O '42

Co-operative relations with universities; A.R.E.A. committee report. Ry Age 21:597-8 Mr 21 '42

Employment statistics of the engineering class of 1942. J Eng Educ 32:710 My '42

Future prospects for employment of aeronautical engineers. J. D. Akermann. J Eng Educ 32:591-5 Mr '42

Graduate check. E. H. Cameron. Civil Eng 12:477-8 S '42

Mobilizing the graduate into war work. C. Carmichael. Machine Design 14:52-4 Ap '42

Refresher programs at the graduate level in the postwar period; abstract. H. W. Bibber. Elec Eng 61:153-4 Mr '42

ENGINEERING inspection

Engineering inspection. A. C. Parkinson. rev ed 136p $2.40 Pitman '41

ENGINEERING institute of Canada

Annual meeting, 56th, Montreal, Feb. 5-6. Eng N 128:307-8 F 19 '42; Roads & Bridges 80:56, 58 Mr '42

Canadian engineers set up war problem committees. Eng N 129:331 S 3 '42

Joint meeting with American society of civil engineers, Niagara Falls, Ont. Eng N 129:536-8 O 22 '42

ENGINEERING instruments

See also

Aeronautic instruments
Electric instruments
Instruments
Radio instruments
Scientific apparatus and instruments
Surveying instruments

ENGINEERING laboratories

Cummins engine co.; new research laboratory with refrigerated room for cold start tests. il Heat & Ven 38:41-2 D '41

Soil-cement blocks for walls of university research laboratory; University of Kansas, Lawrence. W. C. McNown. il Eng N 127:812-13 D 4 '41

See also

Chemical engineering laboratories
Electric laboratories
Highway departments—Laboratories
Hydraulic laboratories

ENGINEERING law

See also

Building laws and regulations
Engineering contracts

ENGINEERING libraries
Use of a technical library. W. E. Jorgensen. (Circ. ser. 6) 21p pa 25c Oregon state engineering exp. station, Corvallis '42

See also
Engineering societies library, New York
Highway departments —Libraries
Institution of electrical engineers—Library
Technical libraries

ENGINEERING literature
Technical literature; how the lot of the student has improved since 1900. L. H. A. Carr. Electrician 129:391-2 O 9 '42; Abstract. Elec R (Lond) 131:459 O 9 '42

ENGINEERING models. See Hydraulic models; Mechanical models

ENGINEERING news-record (periodical)
Safe water and typhoid toll; campaign against water-borne typhoid by Engineering news. M. N. Baker. Eng N 128:551 Ap 9 '42

ENGINEERING reports
Technical report writing. F. H. Rhodes. 125p bibliog(p120-1) $1.50 McGraw-Hill '41

ENGINEERING research
Engineers' war; eight urgent mechanical projects in nine table-cloth drawings. A. Taub. Fortune 24:116-18, 126, 129 D '41

Progress in engineering knowledge during 1941. P. L. Alger. bibliog(256 titles) il diags Gen Elec R 45:82-119 F '42

Research leads to design improvements; electric and hydraulic equipment for airplanes; Adel precision products corp. H. R. Ellinwood. il Aero Digest 40:166+ Ja '42

See also
Aeronautic research
Electric research
Engineering laboratories
Gas research
Highway research
Hydraulic laboratories
Industrial research
Petroleum research
Railroad research
Scientific research

ENGINEERING societies
Meetings. Published twice a month in Engineering news-record

Professional associations; their constitution and responsibilities. Elec R (Lond) 129:544-5 N 14 '41

Professional development and responsibility. R. E. Doherty. Mech Eng 64:10-12 Ja '42

Relation of ECPD to professional societies discussed. J. F. Fairman. Elec Eng 60: 606-7 D '41

War-production conference, first of series, held at Newark, N.J. Elec Eng 61:382-3 Jl '42

See also
Technical societies
also names of societies, e.g.
American institute of electrical engineers
American society of civil engineers
American society of mechanical engineers
Engineering institute of Canada
Engineers' council for professional development
Engineers' defense board
Illuminating engineering society
Society for the promotion of engineering education

Employment service

Report on personnel service. W. H. McBryde. Mech Eng 64:166 F '42

ENGINEERING societies library, New York city
Engineering library halves price for loan of books. Min & Met 23:224 Ap '42

Officers elected; annual report. Elec Eng 61: 59-60 Ja '42

Report for 1940-1941. H. W. Craver. Mech Eng 63:930-1 D '41

War activities of the Engineering societies library. H. A. von Urff. ALA Bul [Chicago] 36:514-16 Ag '42

ENGINEERING society of Detroit
New home of Engineering society of Detroit; Horace H. Rackham memorial building. il plan Eng N 128:578-9 Ap 16 '42

ENGINEERING students
Absorbing adventure in tackling the intangibles of personality. E. D. Ayres. J Eng Educ 32:538-41 Mr '42
Engineering aptitudes; their definition, measurement, and use. C. V. Mann. bibliog diags J Eng Educ 32:673-86 Ap '42
Engineering profession and the student. C. F. Scott. J Eng Educ 32:511-17 Mr '42
Fitting economics into the thinking of the undergraduate engineer. D. S. Tucker. J Eng Educ 32:819-32 Je '42
Follow-up of the careers of tested engineering students. S. P. Horton. 2v 80p, 107p pa ea $1 Human engineering laboratory, 347 Beacon st, Boston '41-'42
Forecasting the academic achievement of engineering students. C. H. Siemens. J Eng Educ 32:617-21 Ap '42
Junior engineering students and the war industries; New York university to adopt accelerated war training program. Science 95: 320 Mr 27 '42
Plan for special acceleration of the study for senior engineering students of superior ability. P. F. Nemenyi and R. L. Lewis. J Eng Educ 32:855-65 Je '42
Problems of junior college students who plan to go on to engineering schools. F. B. Lindsay. J Eng Educ 32:722-7 My '42
Report of the committee on student conservation. J Eng Educ 33:82-90 S '42
Student's responsibility. R. E. Doherty. J Eng Educ 32:420-3 Ja '42
Studies in engineering education II. A. P. Johnson. 22p pa 35c Director of the Division of educational reference, Purdue univ, Lafayette, Ind. '42

See also
Engineering colleges —Enrollment

Grading

Evaluation of results from different types of educational processes. F. C. Dana. J Eng Educ 32:583-90 Mr '42

ENGINEERS
Analysis of the needs for engineers. A. M. Greene. J Eng Educ 33:176-81 O '42
Architects and engineers at work; results of questionnaire on past, present and future activities. il Arch Rec 92:48-50 Ag '42
Army specialist corps. W. O. Hotchkiss. Civil Eng 12:363-4 Jl '42
Army specialist corps. W. O. Hotchkiss. Mech Eng 64:615-17 Ag '42; Same. Elec Eng 61: 440-2 Ag '42; Same. J Eng Educ 33:37-44 S '42; reprinted by Geological society of America Jl '42
Bridges and their builders. D. B. Steinman and S. R. Watson. 379p $3.75 Putnam '41
Career in engineering; requirements, opportunities. L. O. Stewart. 87p bibliog(p86-7) pa 75c Iowa state college press, Ames '41
Economist assigns engineers a place. F. B. Clark. Fortune 26:36 Jl '42
Effect of war on young engineers inducted into industry. M. M. Boring. Elec Eng 61: 281-2 Je '42
Engineer and the engineering method. A. R. Gruehr. bibliog Elec Eng 61:465-8 S '42
Engineer as a negotiator. P. R. Elfstrom. W Soc E J 46:311-16 D '41
Engineer in the war; abstract. C. R. Young. Can Chem & Process Ind 25:618 N '41
Engineering field. il Mo U Sch Mines & Met Bul general ser v 34, no 2B:1-24 '42
Engineers and management; abstract. G. F. Anderson. Elec R (Lond) 130:403 Mr 27 '42
Engineers are needed. J Eng Educ 32:711-13 My '42
Engineers are thinking people. J. W. Parker. Mech Eng 64:583 Ag '42
Engineers in a post-war world. H. T. Heald. J Eng Educ 32:305-6 D '41
Engineer's job in war production; addresses at the All engineers dinner, Washington, D.C. May 18. Mech Eng 64:517-21 Jl '42
Engineers' war. Economist 143:81-2 Jl 18 '42
Faith of the engineer. A. E. Morgan. Civil Eng 12:421-2 Ag '42
How civilian engineers are being absorbed into nation's war effort. E. Reybold. Eng N 128:215 F 5 '42

ENGINEERS—*Continued*

How engineers can speed victory. B. B. Somervell. Mech Eng 64:518-19 Jl '42; Same. Min & Met 23:427 Ag '42

Men and machines. L. Beale. Mech Eng 64:584-7+ Ag '42; Same. Engineer 174:295-7 O 9 '42

National service; a challenge to the engineer. E. M. Little. Pulp & Pa of Can 43:241-4 F '42; Same cond. Can Chem & Process Ind 26:77-8+ F '42

On to Washington? map Arch Rec 91:38-40+ Mr '42

Radio programs on the war work of engineers. R. L. Sackett. Science 96:56 Jl 17 '42

Second mile. M. E. Wickenden. Elec Eng 61:242-7 My '42

Selection of engineer personnel. P. R. Elfstrom. W Soc E J 47:30-4 F '42

Selection of engineers. Engineering 153:252 Mr 27 '42; Discussion. 154:75-6 Jl 24 '42

This is an engineers' war. E. Reybold. Civil Eng 12:293-4 Je '42

Unionism, an issue in engineering. C. J. Freund. Personnel J 20:222-7 D '41

United States needs engineers for government service; features and aims of selective service. R. B. Coons. Min & Met 23:334-5 Je '42

Variety of engineers wanted by U.S. Civil service. E. J. Stocking. Min & Met 23:336 Je '42

War department's needs for engineers. W. H. Kushnick. J Eng Educ 33:70-5 S '42

Was Washington an engineer? G. F. Bush. Mech Eng 64:130-1 F '42

What's an engineer? F. N. M. Brown. Instruments 15:309 Ag '42

See also

Architects—Architect-engineer groups
Chemical engineers
Civil engineers
Electric engineers
Engineering education
Engineering graduates
Highway engineers
Radio engineers
Railroad engineers
Sanitary engineers

also names of engineers, e.g.
Abbott, William Lamont

Directories

Directory of consulting engineers in Canada. Roads & Bridges 80:120, 122 Jl '42

Society for the promotion of engineering education yearbook; list of members. J Eng Educ 32:10-219 F '42

Western society of engineers; year book containing the constitution, by-laws, membership roster and the administrative and operating organization. W Soc E J 46:145-219 Ag '41

Western society of engineers year book, containing the constitution, by-laws, membership roster, and the administrative and operating organization. W Soc E J 47:117-86 Ag '42

Public relations

Chance and a challenge. W. Chevalier. J Eng Educ 33:193-206 O '42

Engineer and citizenship during the present emergency. W. F. Stump. Mech Eng 64:825-7 N '42

Privileges and duties. A. H. White. J Eng Educ 33:14-19 S '42

See also
Washington award

Registration

Engineer registration in New York state. Civil Eng 12:61 Ja '42

New York license board approves plan for engineer-in-training examination. il Eng N 128:969 Je 18 '42

Salaries

Adequate compensation for young engineers. E. H. Robie. Min & Met 23:512-13 O '42

Engineers' wages. Economist 141:716 D 13 '41

Ostriches among the engineers; increasing wages to counteract wartime taxation defeats purpose of the tax. Economist 141:746-7 D 20 '41

Great Britain

British and Chinese co-operation; work of British engineers in China. Engineer 174:322 O 16 '42

Mechanical engineering section of the central register in wartime. J. Tams. Engineer 173:325-6 Ap 17 '42; Same. Engineering 153:375-6 My 8 '42; Same. Inst Mech Eng J & Proc 147:Proc 75-8 My '42

Technical man-power; problem of supply and demand of engineers for war requirements. Engineer 172:421-2 D 12 '41; Elec R (Lond) 129:663-4 D 12 '41

ENGINEERS' council for professional development

Activities in 1941. Min & Met 22:602 D '41; Excerpt. Science 94:456 N 14 '41

Aid to ECPD in promoting guidance for young engineers. J. F. Fairman. Elec Eng 61:419-21 Ag '42

Annual meeting, 9th, New York, Oct. 30. Civil Eng 11:740 D '41; Elec Eng 60:607-8+ D '41; Mech Eng 63:896-9+ D '41

Annual report, 1941. R. E. Doherty. Mech Eng 63:893-5 D '41

Professional development and responsibility. R. E. Doherty. Mech Eng 64:10-12 Ja '42

Relation of ECPD to professional societies discussed. J. F. Fairman. Elec Eng 60:606-7 D '41

ENGINEERS' defense board

Engineers organize defense board. Arch Rec 90:10 N '41

ENGINEERS public service company

Engineers P.S. must choose main system, SEC rules. Elec W News ed 118:1021 S 26 '42

Plan to sell Western public service stock; Nebraska and South Dakota properties to go to Consumers power district. Comm & Fin Chr 155:155-6 Ja 10 '42

SEC denies rehearing. Comm & Fin Chr 156:1325 O 12 '42

SEC tells Company to drop 7 units. Comm & Fin Chr 156:1048 S 21 '42

SEC would strip holding company, Utilities division urges retention of only 1 of 2 units. Comm & Fin Chr 155:1510 Ap 13 '42

ENGINES

Swords and plowshares; man's engineering talents first applied to complex engines of war. J. Early. Barron's 22:9-10 F 2 '42

See also

Airplane engines
Automobile engines
Blowers
Crankshafts
Diesel engines
Fuel
Gas and oil engines
Gas turbines
Governors (machinery)
Locomotives
Motor bus engines
Motor truck engines
Pistons
Pumping machinery
Steam engines
Steam turbines
Turbines

ENGLAND

See also
Great Britain

ENGLEWOOD, New Jersey

Sewerage

Sewerage betterments. H. H. Stephens. il Water Works & Sewerage 89:225-7 My '42

ENGLISH channel

Propelling machinery of cross-Channel packets. W. Gregson. bibliog il diags plans map Inst Mech Eng J & Proc 147:Proc 147-84, pl 1-20 S '42; Same. Engineering 153:156-9, 258-60, 318-20, 338-40, 358-9, 390, 397-400 F 20, Mr 27, Ap 17-My 1, 15 '42; Same cond. Engineer 173:92-5, 113-15, 134-6, 154-6 Ja 30-F 20 '42

ENGLISH language

Outlines novel plan for grammar clarity; identification of vowels by diacritical marks urged. E. N. Teall. Inland Ptr 108:69-70 N '41

ENGLISH language—*Continued*

Writer's handbook of American usage. T. B. Haber. 152p $1 Longmans '42

Your telltale English. S. C. Hadida. rev ed 342p $2 Putnam '42

Business English

Modern business English. A. C. Babenroth. 3d ed 625p bibliog(p613-19) $3.75 Prentice-Hall '42

See also
Commercial correspondence

Dictionaries

General basic English dictionary. C. K. Ogden. 441p $2.50 Norton '42

Winston dictionary. W. D. Lewis and E. A. Singer, eds. intermediate ed 940p $1.32 John C. Winston co, Philadelphia '42

Errors

Pianos, not ladies, have square legs, or, The printer's plight in coping with ambiguous copy. E. N. Teall. Inland Ptr 109:40 Je '42

Usage and abusage; a guide to good English. 369p $3 Harper '42

Your speech and how to improve it. F. Colby. 425p bibliog(p421-5) $2.98 Vanguard press, New York '41

Grammar

Keep grammar's sky free of cloudiness. E. N. Teall. Inland Ptr 108:54-5 D '41

Study and teaching

English in engineering, in college and after college. H. P. Hammond. J Eng Educ 32:596-601 Mr '42

Written English in defense. J. R. Gould. J Eng Educ 32:523-8 Mr '42

Synonyms

American thesaurus of slang. L. V. Berrey and M. Van den Bark. 1174p $5 Crowell '42

ENGLISH literature

Study and teaching

Teaching literature in an engineering school. J. L. Vaughan. J Eng Educ 32:772-4 My '42

ENGRAVING

See also
Photoengraving

ENGRAVINGS

Some aspects of museum laboratory work; print collections. R. B. Pilcher. Chem & Ind 60:850-1 N 29 '41

Printing

Conflict of inches versus picas goes merrily on. Inland Ptr 109:39-40 Je '42

Cutting corners for economy is better than cutting cuts; reader interest is lowered with curtailed use of illustrations in magazines, sales literature. C. N. Tunnell. il Inland Ptr 109:30-2 Jl '42

Depth and tone separation vital in half-tone reproduction. J. T. Wrigley. il Inland Ptr 109:35-9 Ap '42

ENLISTED reserve corps. See United States—Army—Enlisted reserve corps

ENNIS, Arthur I. 1894-

Personairlities. C. Caldwell. pors Aero Digest 39:87 D '41

ENOLIZATION. See Isomerization

ENOLS

Acylation of the di-enolate of 1,4-dimesitylbutanedione-1,4. R. E. Lutz, W. G. Reveley and V. R. Mattox. Am Chem Soc J 63:3171-4 N '41

Acylation of the di-enolate of 1,4-dimesityl-2-phenylbutanedione-1,4. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3175-8 N '41

Preparation and alkylation of 1,4-dimesityl-3-methyl,1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2423-6 O '42

Properties of *o*-methoxybenzoylmesitoylmethane. R. P. Barnes and C. C. Cochrane. bibliog Am Chem Soc J 64:2262 O '42

Stereochemistry of the enols and di-enols of 2-*t*-butyl-1,4-dimesitylbutanedione-1,4; a proof of 1,4-reduction of an α-bromoketone. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3180-9 N '41

ENSEMBLE selling. See Retail trade—Ensemble selling

ENTADA

Saponin from the species of entada. C. D. Mell. Textile Col 63:661-2 D '41

ENTHALPY. See Thermodynamics

ENTOMOLOGISTS

Duty of the entomologist. T. D. A. Cockerell. Science 96:338 O 9 '42

ENTROPY

Determination of the entropy of the chloride ion. H. A. Bernhardt and H. D. Crockford. J Phys Chem 46:473-6 Ap '42

Entropy. K. K. Darrow. Bell System Tech J 21:51-74 Je '42

Entropy of acetic acid. J. O. Halford. bibliog J Chem Phys 9:859-63 D '41

Entropy of the monomeric forms of formic acid and acetic acid. J. O. Halford. bibliog J Chem Phys 10:582-4 S '42

Entropy of vaporization and density of liquids at their boiling points. J. H. Simons and R. K. Smith. bibliog J Phys Chem 46:380-7 Mr '42

Heat capacity and entropy, heats of fusion and vaporization and the vapor pressures of isopentane. S. C. Schumann, J. G. Aston and M. Sagenkahn. bibliog Am Chem Soc J 64:1039-43 My '42

Meaning and use of entropy. E. S. Gray. diags Power 86:402-4 Je '42

Partial pressure of hydrogen chloride from its solutions in β,β′-dichloroethyl ether and in anisole and the calculation of the heat and entropy of solution. S. J. O'Brien. bibliog Am Chem Soc J 64:951-3 Ap '42

Steam table drills; using entropy. P. Swain. Power 86:346 Ap '42

Thermodynamic properties of light hydrocarbons. D. E. Holcomb and G. G. Brown. bibliog diags Ind & Eng Chem 34:590-602 My '42

See also
Thermodynamics

ENVELOPES

Illustrating the package on envelopes. E. M. Kelley. il Mod Packaging 15:294-5 Ap '42

See also
Advertising mediums
—Envelopes

ENZYMES

Action of almond emulsin on populin and on phenyl 2,4,6-trimethyl-β-D-glucoside. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:374-5 F '42

Basic mechanism in the biological effects of temperature, pressure and narcotics. F. H. Johnson, D. Brown and D. Marsland. Science 95:200-3 F 20 '42

Concentration of enzymes and other biological colloids by dialysis. G. E. Youngburg. Science 94:498 N 21 '41

Enzyme action; reduced by narcotics. H. C. Eyster. Science 96:140-1 Ag 7 '42; Discussion. E. Geiger. 96:426 N 6 '42

Enzyme conversions of cornstarch. E. P. Gillan. Paper Tr J 115:109-11 O 1 '42; Same cond. Paper Ind 24:742+ O '42; Abstract. Oil Paint & Drug Rep 142:7 O 12 '42

Extraction and assay of nicotinic acid from animal and plant tissues; comparison of methods. V. H. Cheldelin and R. R. Williams. bibliog Ind & Eng Chem Anal ed 14:671-5 Ag 15 '42

Factors influencing the catecholase activity and inactivation of tyrosinase; the effect of gelatin and of catechol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 63:3368-74 D '41

ENZYMES—*Continued*

Influence of structural changes in the aglucons on the enzymic hydrolysis of alkyl β-D-glucosides. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:369-74 F '42

Isolation of a new oxidation-reduction enzyme from lemon peel (vitamin P). C. Z. Wawra and J. L. Webb. bibliog Science 96:302-3 S 25 '42

Kinetics as a function of temperature of lipase, trypsin, and invertase activity from -70 to 50 deg. C. (-94 to 122 deg. F.); abstract. I. W. Sizer and E. S. Josephson. Food Ind 14:113 O '42

Localization of enzymes in nerve fibers. D. Nachmansohn and H. B. Steinbach. bibliog Science 95:76-7 Ja 16 '42

Low temperature vacuum drying apparatus. D. H. Cook. diag J Chem Educ 19:427+ S '42

Nature of the resistance of wool to digestion by enzymes. W. B. Geiger and others. bibliog il Am Dyestuff Rep 30:659-64 N 24 '41; Same. J Research Nat Bur Stand 27:459-68 N '41

New method for the measurement of tyrosinase catecholase activity. W. H. Miller and C. R. Dawson. Am Chem Soc J 63:3375-82 D '41

New protease from bromelia pinguin L. C. F. Asenjo and M. del C. Capella de Fernandez. Science 95:48-9 Ja 9 '42

Photoelectric colorimeter for rapid reactions. B. Chance. il diags R Sci Instr 13:158-61 Ap '42

Specificity studies on enzymes hydrolyzing esters of substituted amino and nitrogen heterocyclic alcohols. D. Glick. bibliog Am Chem Soc J 64:564-7 Mr '42

Use of enzymes in the refractometric method for egg solids; a production control method. W. M. Urbain, I. H. Wood and R. W. Simmons. bibliog Ind & Eng Chem Anal ed 14:231-3 Mr 15 '42

See also

Amylases
Choline esterase
Dipeptidases
Fermentation
Invertase
Melibiase
Oxidases
Phosphorylase
Proteases
Protyrosinase
Trypsin
Tyrosinase

EOSIN

Photoöxidation of iodide ion sensitized by eosin; the effect of the oxygen concentration and of the light intensity. R. Livingston. bibliog diag J Phys Chem 46:233-8 F '42

EPHEDRINE

Monograph on ephedrine, the history, chemistry, pharmacology, toxicology and pathology, and present clinical status. 75 numb l bibliog(l 62-75) Eli Lilly and co, Indianapolis '41

EPICAMPHOR

See also

Hydroxyepicamphor

EPICHLOROHYDRIN

Reaction of epichlorohydrin with the Grignard reagent. J. K. Magrane, jr. and D. L. Cottle. bibliog Am Chem Soc J 64:484-7 Mr '42

EPICYCLIC gearing. See Gearing, Planetary

EPIDEMICS

Disease outbreaks from water, milk, and other foods in 1939. A. W. Fuchs. Pub Health Rep 56:2277-84 N 28 '41

Epidemic of acute respiratory infection of unusual type; Coast Guard training station at Manhattan Beach, Long Island. J. W. Oliphant and T. R. Dawber. Pub Health Rep 57:993-7 Jl 3 '42

Epidemiological study of poliomyelitis in Mississippi in 1941. L. L. Lumsden. bibliog map Pub Health Rep 57:729-53 My 15 '42

Special measures to fight epidemics. J. Stafford. Science 96:sup8-9 Jl 17 '42

See also

Infectious diseases
Influenza
Malaria
Typhoid fever

EPIDIASCOPE

Epidiascope of the Junior institution of engineers. il diags Engineering 153:46-7 Ja 16 '42

EPIHYDRIN alcohol. See Glycidol

EPILEPSY

Epilepsy and cerebral localization. W. Penfield and T. C. Erickson. 623p bibliog(p575-607) $8 C. C. Thomas, Springfield, Ill. '41

Sodium diphenylhydantoinate and experimental epilepsy. H. Moussatché. Science 95:106 Ja 23 '42

Study of epilepsy. J. Stafford. Science 95:sup10+ Ja 16 '42

EPOXYPROPANOL. See Glycidol

EPSOM salts. See Magnesium sulfate

EQUATION of state

Compressibilities of gaseous mixtures of methane and normal butane; the equation of state for gas mixtures. J. A. Beattie, W. H. Stockmayer and H. G. Ingersoll. bibliog J Chem Phys 9:871-4 D '41

Compressibility of and an equation of state for gaseous isobutene. J. A. Beattie, H. G. Ingersoll and W. H. Stockmayer. bibliog Am Chem Soc J 64:548-50 Mr '42

Determination of Beattie-Bridgeman constants from critical data. F. W. Brown. Ind & Eng Chem 33:1536-7 D '41

Equation of state for gases at high pressures involving only critical constants. S. H. Maron and D. Turnbull. bibliog Am Chem Soc J 64:2195-8 S '42

Equation of state of some synthetic rubbers. L. E. Peterson, R. L. Anthony and E. Guth. Ind & Eng Chem 34:1349-52 N '42

Generalized thermodynamic properties of gases at high pressures. S. H. Maron and D. Turnbull. bibliog il Ind & Eng Chem 34:544-51 My '42

Second virial coefficient for gas mixtures. J. A. Beattie and W. H. Stockmayer. bibliog J Chem Phys 10:473-6 Jl '42

Thermodynamic calculations of pressure effects in gaseous reactions by the equation of state method. L. J. Gillespie. Chem R 29:525-7 D '41

See also

Virial coefficients

EQUATIONS

Method of finding the equations of curves. J. C. Barnes. Engineering 152:334 O 24 '41; Discussion. 152:434 N 28 '41

EQUATIONS, Differential. See Differential equations

EQUILIBRIUM

Equilibrium thermodynamics and biological chemistry. G. Scatchard. Science 95:27-32 Ja 9 '42

See also

Chemical equilibrium
Phase rule and equilibrium

EQUIPMENT industries

Middleman in the war effort; wholesaler's ability to keep factories going overlooked by production authorities. M. M. Green. Barron's 22:13 S 7 '42

Record year for marine equipment. D. W. Niven. il Marine Eng 47:108-10 Ja '42

Selling what you've got, when you haven't got it; not so much leg work for salesmen but head work is needed more than ever. J. H. Van Deventer. Ptr Ink 199:17-18, 65-8 Ap 17 '42

Tool exchange; Blackhawk and Imperial Brass serve as clearing houses for scarce items on shelves of well-stocked distributors. Business Week p52+ O 31 '42

See also

Advertising—Industries, Appeal to
Airplane accessories industry
Automobile accessories industry
Construction equipment
Industrial market
Machine tool industry
Machinery industry
Petroleum equipment industries
Plumbing supplies industry

EQUIPMENT industries—See also—*Continued*
Railroad supplies industry
Tractor industry and trade
also Container corporation of America

Advertising

For these serious times, industrial advertiser chooses lighter touch; Gardner-Denver company. B. P. Spann. il Ptr Ink 198:15+ Mr 13 '42
Gifford-Wood advertising has been continuous for 128 years. I. W. Tyson. il Ind Marketing 27:22-4 Mr '42
High speed war production brings strong industrial copy theme. il Ptr Ink 198:21-2+ Ja 16 '42
How the advertising man can help keep equipment going; plantwise service information. W. E. Irish. Ind Marketing 27:29-30+ Ag '42
Launching a war baby; Por-os-way grinding wheel made by dental equipment manufacturer. R. N. D. Arndt. il Ind Marketing 27:20-1+ Ap '42
New catalog simplifies sales and production problems; Union steel products co. C. D. Davenport. il Ind Marketing 27:17-19 My '42
Planning to make your field trip a success; material for LeTourneau advertising. G. C. McNutt. il Ind Marketing 26:24-5+ D '41
This tool advertising is done in newspaper tabloid style; Chicago pneumatic tool company. J. A. Murphy. il Ptr Ink 198:15+ Mr 27 '42

See also
Machine tool industry—Advertising
Plumbing supplies industry—Advertising
Pumps—Advertising

Directories

Alphabetical listing of equipment and container manufacturers and dealers. Chem Ind 49:533-6 pt 2 (Buyer's guidebook) O '41
Buyers' guide of refinery equipment. Oil & Gas J 40:B1-B63 Mr 26 '42
Directory of equipment for handling parts and materials. Aero Digest 41:325-8, 330-1, 333-4 Ag '42
Equipment and container buying section; an alphabetical list of apparatus, containers, equipment, laboratory supplies and packaging and labeling machinery, with a buyer's guide of manufacturers. Chem Ind 49:537-607 pt 2 (Buyer's guidebook) O '41
29th buyers reference number. il diags Am Mach 86:81-356 Ja 22 '42

Securities

Investment audit of Crane co. H. J. Nelson. Barron's 22:13 Mr 2 '42
Position of leading machinery and electrical equipment stocks. Mag of Wall St 69:490-1 F 7 '42
Profit and dividend outlook for machinery and equipments; position of leading stocks. J. C. Harrington. il Mag of Wall St 70:444-9+ Ag 8 '42

Statistics

Durable goods expenditures in 1941 and comparisons with 1935-39, 1939 and 1940; plant and equipment. F. C. Dirks. Fed Res Bul 28:317-18 Ap '42

EQUIPMENT trust certificates. See Railroads—Equipment trust certificates

EQUITABLE fire and marine insurance company
How Equitable Fire & Marine weathered the Boston fire. il Weekly Underw 147:606, 608 S 19 '42

EQUITABLE life insurance company of Iowa
Agencies celebrate 75th anniversary; President Hubbell's talk. East Underw 43:1+ Ja 30 '42
Observes 75th anniversary. Nat Underw (Life ed) 46:6 Ja 30 '42; Spectator (Life ed) 148:29 F 26 '42

ERGOMETRINE
Graphic method of studying the separation of mixtures by immiscible solvents. L. F. Knudsen and D. C. Grove. Ind & Eng Chem Anal ed 14:556-7 Jl 15 '42

ERGOMETRININE
Graphic method of studying the separation of mixtures by immiscible solvents. L. F. Knudsen and D. C. Grove. Ind & Eng Chem Anal ed 14:556-7 Jl 15 '42

ERGONOVINE. See Ergometrine

ERGOSTEROL
Oxidative destruction of vitamin D. J. C. Fritz and others. bibliog Ind & Eng Chem 34:979-82 Ag '42
Steryl sulfates; isolation and separation of sterols. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:361-3 F '42

ERGOT
Ergot biologic assay dropped from U.S.P. Oil Paint & Drug Rep 141:47 F 23 '42

ERIE, Lake
Limnological studies of western Lake Erie; abstract. D. C. Chandler. Am Water Works Assn J 34:767 My '42
Toledo's new Lake Erie water supply. G. N. Schoonmaker. il map Civil Eng 12:316-19 Je '42

ERIE, Pennsylvania

Industries

Erie gets in the scrap; salvage campaign in Erie plants. il Factory Management 100:66-8+ F '42

ERIE canal
Historic Erie canal. R. E. McFee. il diags map Comp Air M 47:6705-9 Ap '42

ERIE railroad
Bonds placed privately. Comm & Fin Chr 156:161-2 Jl 13 '42
Distribution of new securities. Comm & Fin Chr 154:1698 D 27 '41
Exchange of securities, etc. under plan. Comm & Fin Chr 155:156 Ja 10 '42
Initial preferred dividend, etc. Comm & Fin Chr 155:398 Ja 27 '42
Rail securities for appreciation. S. Devlin. Mag of Wall St 70:570 S 5 '42
Railroad securities. Comm & Fin Chr 156:797 S 3 '42
Railroad securities; new common stock and certificates. Comm & Fin Chr 155:749 F 19 '42
Reconstruction loan of $14,000,000. Comm & Fin Chr 154:1630 D 23 '41
Seeks purchase of subsidiaries. Comm & Fin Chr 154:1053 N 15 '41
Seeks to buy 10 subsidiaries in Jersey to simplify structure. Comm & Fin Chr 155:1012 Mr 9 '42
Special situations for income and appreciation. H. F. Travis. Mag of Wall St 71:30 O 17 '42
Suspension of old and listing of new securities. Comm & Fin Chr 155:50 Ja 3 '42

ERNST, Max, 1891-
Twelve artists in U.S. exile. Fortune 24:109 D '41

EROSION
Cotton fabric for erosion control; experiments on roadside slopes and ditches in Mississippi. W. B. King. il Pub Roads 23:94-6 Jl-S '42; Excerpts. Eng N 129:547 O 22 '42
Drop structures for erosion control; protection of watershed by East Bay municipal utility district, California. L. S. Hall. il Civil Eng 12:247-50 My '42
Geomorphology of the Ventura region, California. W. C. Putnam. fold map maps Geol Soc Bul 53:691-754, pl 1-5 bibliog(p752-4) My '42
Hydraulic design of drop structures for gully control. B. T. Morris and D. C. Johnson. il diags Am Soc C E Proc 68:17-48 Ja '42; Discussion. 68:650, 812-18, 1021-2, 1171-7, 1424-6 Ap-Je, S-O '42
Landscape as developed by the processes of normal erosion. C. A. Cotton. 301p $7 Macmillan (Toronto) '41
Silt problems. W. E. Corfitzen. il Civil Eng 12:616-19 N '42
Some observations on the relation of farm tenure to soil erosion and depletion. O. T. Osgood. bibliog J Land & Pub Util Econ 17:410-22 N '41

EROSION—*Continued*

Unrecognized arid Hawaiian soil erosion. F. E. Egler. Science 94:513-14 N 28 '41

See also

Roads—Protection
Sedimentation and deposition
Soil conservation

EROSION of metals

Fly ash erosion in steel mill boilers. J. H. Reid. il diags Steel 111:68, 70+ Ag 24 '42

See also

Hydraulic machinery —Cavitation

ERREN engine

Erren combustion cycle; utilising gaseous fuel with hydrogen as main constituent; reprinted from Automobile engineer for Sept. 1937. il diags Automobile Eng 32: 299-302 Ag '42

Submarine power plants. Automobile Eng 32: 297-8 Ag '42

ERRORS

See also

English language— Errors

ERRORS, Employees'

Error study makes errorless bookkeepers. F. Bremer. il Bankers Mo 59:345-6 Ag '42

Should error records be kept? Bankers Mo 59:60-1+ F '42

Why operating errors occur and what one bank does about it. il Bankers Mo 59:8-9 Ja '42

ERRORS, Measurement of

Sampling errors of systematic and random surveys of cover-type areas. J. G. Osborne. charts Am Statis Assn J 37:256-64 Je '42

Standard error of percentiles. W. D. Evans. Am Statis Assn J 37:367-76 S '42

ERRORS, Theory of

Mathematical expression and interpretation of scientific measurements. W. W. Razim. bibliog J Chem Educ 19:411-14 S '42

ERRORS of sampling. See Sampling (statistical methods)

ERUCIC acid

Erucic acid; preparation of erucic acid; general oxidation reactions; oxidation with gaseous oxygen. C. Dorée and A. C. Pepper. Chem Soc J p477-83 Ag '42

ERYSODINE

Erythrina alkaloids; chromatographic analyses of erysodine, erysovine and erysocine and technique for preparative isolation. K. Folkers and J. Shavel, jr. bibliog diag Am Chem Soc J 64:1892-6 Ag '42

ERYSOVINE

Erythrina alkaloids; chromatographic analyses of erysodine, erysovine and erysocine and technique for preparative isolation. K. Folkers and J. Shavel, jr. bibliog diag Am Chem Soc J 64:1892-6 Ag '42

ERYTHRALINE

Erythrina alkaloids; studies on the constitution of erythraline, erythramine, and erythratine. K. Folkers, F. Koniuszy and J. Shavel, jr. bibliog Am Chem Soc J 64: 2146-51 S '42

ERYTHRAMINE

Erythrina alkaloids; studies on the constitution of erythraline, erythramine, and erythratine. K. Folkers, F. Koniuszy and J. Shavel, jr. bibliog Am Chem Soc J 64: 2146-51 S '42

ERYTHRATINE

Erythrina alkaloids; studies on the constitution of erythraline, erythramine, and erythratine. K. Folkers, F. Koniuszy and J. Shavel, jr. bibliog Am Chem Soc J 64: 2146-51 S '42

ERYTHRINA

Erythrina alkaloids; chromatographic analyses of erysodine, erysovine and erysocine and technique for preparative isolation. K. Folkers and J. Shavel, jr. bibliog diag Am Chem Soc J 64:1892-6 Ag '42

ERYTHROCYTES. See Blood

ESCANABA, Michigan

Harbor

New iron route; WPB prepares to make Escanaba on Lake Michigan a big transshipment point. Business Week p18-19 Ag 15 '42

ESCOTT, Ivan

Vice-president of Home and president of Factory insurance association. C. Axman. por East Underw 43:17+ My 15 '42

ESKIMOS

Economic conditions among Alaskan Indians and Eskimos. Monthly Labor R 54:647-9 Mr '42

ESPARTO

Industrial uses of chemicals and related materials; esparto wax. Oil Paint & Drug Rep 142:48 Ag 3 '42

Italian esparto wax; results of solvent extraction. Chem Age (Lond) 47:338 O 17 '42

ESPIONAGE, Industrial. See Industrial espionage

ESSAYS

Essay annual, 1941; a yearly collection of significant essays, personal, critical, controversial, and humorous. E. A. Walter. 303p bibliog(p283-6) $1.25 Scott, Foresman & co, 623 S. Wabash av, Chicago '41

Bibliography

Essay and general literature index, 1941. M. Shaw, ed. 250p Wilson, H.W. '41

ESSEN, Germany

Air force targets in Germany. il map Engineer 172:416-19 D 12 '41

ESSENTIAL oil association of the United States

Annual meeting, New York, Jan. 9. Oil Paint & Drug Rep 141:7+ Ja 19 '42

ESSENTIAL oils

Cannabis indica; the essential oil from Egyptian hashish. J. L. Simonsen and A. R. Todd. Chem Soc J p188-91 Mr '42

Domestic sources for essential oils; abstract. P. C. Magnus. Chem Ind 50:517 Ap '42

Flavor extract makers discuss problems originating from war. Oil Paint & Drug Rep 141:7+ My 25 '42

Pharmaceutical supplies conditions; essential oils aspects. J. A. Huisking. Oil Paint & Drug Rep 141:55 Je 22 '42

Philippine experiments in the production of essential oils. For Comm W 5:28-9 N 29 '41

Recovery of Maine balsam needle oil. L. C. Jenness and J. G. L. Caulfield. 20p University press, Orono, Me. '41

See also

Caryophyllene
Citronella oil
Lemon grass
Lime oil
Peppermint oil
Perfumery
Terpenes

Statistics

Essential oils and aromatic chemicals, 1941. Oil Paint & Drug Rep 141:73-4 Ja 12 '42

Essential oils, aromatic chemicals. Published in weekly numbers of Oil, paint and drug reporter

ESTATE planning

Cooperative estate planning. W. R. Spinney. Trusts & Estates 74:492 My '42

Drafting tomorrow's trust; meeting changes in living costs. R. H. Bolman. Trusts & Estates 74:275-8 Mr '42

Features of estate and trust planning. G. Stephenson. East Underw 43:13 Ap 10 '42

Future of life insurance and trust business in a war-changing world. G. A. Price. Ins Field (Life ed) 71:13 F 27 '42

Hidden values in your life insurance; need for income the guiding factor in planning an estate. B. W. Levmore. Barron's 22:3+ Je 8 '42

Insurance trust councils in estate planning. L. N. Woodward. Trusts & Estates 74:495-7 My '42

ESTATE planning—*Continued*

Personal asset analysis; role of accountant and tax consultant in estate planning. P. D. Seghers. Trusts & Estates 74:163-6 F '42

Planning for tax savings in 1942. B. M. Becker. Ins Field (Fire ed) 71:22-3 Ja 22; 18-19 Ja 29 '42; Same. Ins Field (Life ed) 71:16-17 Ja 23; 16+ Ja 30 '42

Proper place of tax savings in estate planning; defense bonds for the uninsurables. K. S. Koster. Trusts & Estates 74:72 Ja '42

Readjustments to meet higher taxes. A. R. Courtice. Trusts & Estates 75:53-5 Jl '42

Some problems in distribution of estate. R. M. Lovell; S. A. Monroe. Nat Underw (Life ed) 46:23 F 13 '42

T. Mortimer Plumb, the financial biography of a rising American. G. S. Vrionis and others. Trusts & Estates 73:43-7, 171-4, 283-7, 397-402, 513-18, 629-32 Jl-D '41; Reply. R. E. O'Dea. 74:270; Rejoinder. 270-1 Mr '42

Trends in estate planning. H. S. Koster. Trusts & Estates 73:521, 639-40; 74:489-91, 591-2; 75:45-7 N-D '41, My-Jl '42

Trends in estate planning; yesterday's will and the new tax bill. H. S. Koster. Trusts & Estates 74:395-6 Ap '42

War's effect on estates and trusts; suggested will clauses and statutory changes. J. S. Montgomery, jr. Trusts & Estates 75:377-82 O '42

See also

Insurance, Life—
  Estate protection

ESTATE tax. See Inheritance tax

ESTATES (law)

Cases and materials on the law of fiduciary administration. L. M. Simes. 533p $5.50 Callaghan '41

Illinois law of future interests. H. F. Carey and D. M. Schuyler. 741p $10 Burdette Smith co, Chicago '41

Manual of the law of liferent and fee in Scotland. W. J. Dobie. 335p 17s 6d W. Green & son, Edinburgh '41

Some problems in distribution of estate. R. M. Lovell; S. A. Monroe. Nat Underw (Life ed) 46:23 F 13 '42

See also

Inheritance tax
Perpetuities

ESTATES, Decedents'

Competition for executorships; bulk of business now goes to individuals. P. P. Pullen. Burroughs Clearing House 26:20-2+ Jl '42

See also

Executors and administrators
Life tenants and remaindermen
Probate law
Wills

ESTER gum

Ester gums from rosin and modified rosins. W. D. Pohle and W. C. Smith. bibliog Ind & Eng Chem 34:849-52 Jl '42

ESTERASES

Specificity studies on enzymes hydrolyzing esters of substituted amino and nitrogen heterocyclic alcohols. D. Glick. bibliog Am Chem Soc J 64:564-7 Mr '42

ESTERIFICATION

Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64:2362-5 O '42

Ester gums from rosin and modified rosins. W. D. Pohle and W. C. Smith. bibliog Ind & Eng Chem 34:849-52 Jl '42

Studies in esterification; preparation and properties of starch propionate. D. E. Mack and R. N. Shreve. bibliog diag Ind & Eng Chem 34:304-9 Mr '42

Vapor phase esterification equilibrium. J. O. Halford and D. Brundage. bibliog Am Chem Soc J 64:36-40 Ja '42

ESTERS

Acid catalyzed hydrolysis of ethyl esters of aliphatic acids. H. A. Smith and J. H. Steele. Am Chem Soc J 63:3466-9 D '41

Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64:2362-5 O '42

Alkanolamines; monoalkylamino alcohols and their esters. C. B. Kremer and E. Waldman. Am Chem Soc J 64:1089-90 My '42

Alkyl carbonates in synthetic chemistry; condensation with nitriles; synthesis of α-cyano esters. V. H. Wallingford, D. M. Jones and A. H. Homeyer. bibliog Am Chem Soc J 64:576-8 Mr '42

Alkyl esters of phosphoric acid. C. A. Hochwalt and others. bibliog il Ind & Eng Chem 34:20-5 Ja '42

Alkyl esters of phosphoric acid; some applications in industry. H. Adler and W. H. Woodstock. bibliog(71 references) il Chem Ind 51:516-21+ O '42

Alkyl-oxygen fission in carboxylic esters; esters of αγ-dimethylallyl alcohol and other substituted allyl alcohols. M. P. Balfe and others. Chem Soc J p556-9 S '42

Behavior of esters over Raney nickel. P. L. de Benneville, W. R. McClellan and R. Connor. bibliog Am Chem Soc J 63:3541-2 D '41

Chain structure of linear polyesters; trimethylene glycol series. C. S. Fuller, C. J. Frosch and N. R. Pape. bibliog pls Am Chem Soc J 64:154-60 Ja '42

Chemical constitution and the tanning effect; simple esters and polyesters of gallic acid. A. Russell and W. G. Tebbens, jr. Am Chem Soc J 64:2274-6 O '42

Cleavage of the alkyl-oxygen bond in the hydrolysis of esters; *t*-butyl 2,4,6-trimethylbenzoate. S. G. Cohen and A. Schneider. bibliog Am Chem Soc J 63:3382-8 D '41

Cocarboxylase and related esters. J. Weijlard. bibliog Am Chem Soc J 64:2279-82 O '42

Condensations; the acylation of the anions of certain alkyl esters with phenyl esters; a new method for the preparation of ethyl propionylacetate and certain related β-keto esters. B. Abramovitch and C. R. Hauser. bibliog Am Chem Soc J 64:2271-4 O '42

Condensations; various acylations and alkylations of the sodium enolates of aliphatic esters; methods for the syntheses of α,α-disubstituted β-keto esters and of certain other compounds. B. E. Hudson, jr. and C. R. Hauser. bibliog Am Chem Soc J 63:3156-62 N '41

Crystalline aliphatic esters of vitamin A. J. G. Baxter and C. D. Robeson. pls Am Chem Soc J 64:2407-10 O '42

Esters of pyridinecarboxylic acids as local anesthetics. F. F. Blicke and E. L. Jenner. bibliog Am Chem Soc J 64:1721-4 Jl '42

Esters of secondary hydroxyaralkylalkylamines. J. S. Buck and R. Baltzly. bibliog Am Chem Soc J 64:2263-4 O '42

Halogenation of certain esters in the biphenyl series; the chlorination of 4-phenylphenyl acetate. C. M. S. Savoy and J. L. Abernethy. bibliog Am Chem Soc J 64:2219-21 S '42

Hercules rosin esters. F. J. Van Antwerpen. il News Ed 19:1255-6, 1258 N 25 '41

Identification of alcohols by means of the optical properties of the esters of carbanilic acid. B. T. Dewey and N. F. Witt. Ind & Eng Chem Anal ed 14:648 Ag 15 '42

Iodinated organic compounds as contrast media for radiographic diagnoses; iodinated aracyl esters. W. H. Strain, J. T. Plati and S. L. Warren. bibliog Am Chem Soc J 64:1436-40 Je '42

Laboratory experiments involving ammonolysis of esters. W. V. Sessions. J Chem Educ 19:130 Mr '42

Local anesthetics; β-monoalkylaminoethyl esters of alkoxybenzoic acids. J. S. Pierce, J. M. Salsbury and J. M. Fredericksen. Am Chem Soc J 64:1691-4 Jl '42

New acid synthesis; the effect of hindrance; methyl tertiary-butyl- and methylethylpropylacetic acids. J. G. Aston and others. Am Chem Soc J 64:300-2 F '42

ESTERS—*Continued*

Poly-condensation of α-amino acid esters; poly-condensation of alanine ethyl ester. M. Frankel and E. Katchalski. Am Chem Soc J 64:2268-71 O '42

Poly-condensation of α-amino acid esters; poly-condensation of glycine esters. M. Frankel and E. Katchalski. bibliog Am Chem Soc J 64:2264-8 O '42

Polyhydric alcohol esters in our war effort. J. W. Daum. il Chem Ind 51:522-3 O '42

Preparation of 2-amino-4-alkylthiazoles from esters of substituted 2-aminothiazyl-4-acetic acids. W. M. Ziegler. Am Chem Soc J 63:2946-8 N '41

Preparation of orthoesters. S. M. McElvain and J. W. Nelson. bibliog Am Chem Soc J 64:1825-7 Ag '42

Random reorganization of molecular weight distribution in linear condensation polymers. P. J. Flory. bibliog Am Chem Soc J 64:2205-12 S '42

Reaction of the Grignard reagent with esters of highly hindered acids. R. C. Fuson, E. M. Bottorff and S. B. Speck. bibliog Am Chem Soc J 64:1450-3 Je '42

Relation of dielectric properties to structure of crystalline polymers; polyesters. W. A. Yager and W. O. Baker. bibliog Am Chem Soc J 64:2164-71 S '42

Some esters of thiodiglycol. W. R. Clayton and E. E. Reid. Am Chem Soc J 64:908-9 Ap '42

Specificity studies on enzymes hydrolyzing esters of substituted amino and nitrogen heterocyclic alcohols. D. Glick. bibliog Am Chem Soc J 64:564-7 Mr '42

Starch studies; preparation and properties of starch triesters. J. W. Mullen, 2d and E. Pacsu. bibliog(65 references) il Ind & Eng Chem 34:1209-17 O '42

Synthesis of ketones of the type $RCOCHR_2$ from α,α-disubstituted β-keto esters; an extension of the acetoacetic ester type of ketone synthesis. B. E. Hudson, jr. and C. R. Hauser. Am Chem Soc J 63:3163-4 N '41

Synthetic mydriatics. F. F. Blicke and C. E. Maxwell. bibliog Am Chem Soc J 64:428-33 F '42

See also

Cellulose esters

ESTHETICS

Toward a modern aesthetic; theory of why some forms satisfy and others do not. A. Ozenfant. il Tech R 45:22-4+ N '42

ESTIMATES

See also

Engineering—Estimates

Plumbing—Estimates

Printing, Practical—Estimates

ESTROGENIC activity

Some mono- and di-alkyl ethers of stilboestrol. E. E. Reid and E. Wilson. Am Chem Soc J 64:1625-6 Jl '42

Synthesis of an isomer of estrone containing a phenolic B ring. W. E. Bachmann and A. B. Ness. bibliog Am Chem Soc J 64:536-40 Mr '42

Unsymmetrical cyanostilbenes. J. B. Niederl and A. Ziering. bibliog Am Chem Soc J 64:885-6 Ap '42

See also

Diethylstilbestrol

ESTRONE

Derivatives of estrone containing oxygen at position 16. M. N. Huffman. Am Chem Soc J 64:2235-6 S '42

Diminution in ability of the liver to inactivate estrone in vitamin B complex deficiency. M. S. Biskind and G. R. Biskind. Science 94:462 N 14 '41

Œstrone azobenzene-4-carboxylate. F. Bergel and A. Cohen. Chem Soc J p795-6 N '41

Synthesis of an isomer of estrone containing a phenolic B ring. W. E. Bachmann and A. B. Ness. bibliog Am Chem Soc J 64:536-40 Mr '42

Total synthesis of a stereoisomer of the sex hormone estrone. W. E. Bachmann, S. Kushner and A. C. Stevenson. bibliog Am Chem Soc J 64:974-81 Ap '42

ETALONS. See Interferometers

ETCHING (metals)

Deep etching in metallurgical investigations. G. W. Walker. il Iron Age 149:45-51 Ap 2 '42

Heat etching as a general method for revealing the austenite grain size of steels. O. O. Miller and M. J. Day. bibliog il diag Am Soc for Metals Trans 30:541-63; Discussion. 563-8 S '42

Mass production of large-size aircraft templates speeded by advanced electrolytic etching process. R. R. Nolan. S A E J 50: sup43-5 Je '42

Micro and macro structures of gray iron and meehanite; grinding, polishing and etching procedures; new photographing technique. C. R. Austin and M. M. Lipnick. il Iron Age 149:72-4 My 7 '42

Plane templets duplicated by etching; Northrop process. F. M. Gibian and W. Chatten. il diags Am Mach 86:676-80 Je 25 '42; Same abr. Aviation 41:142, 144-5+ Jl '42

ETHANE

Applications of thermodynamics to multicomponent systems. B. H. Sage and R. H. Olds. bibliog il diag Ind & Eng Chem 34:526-32 My '42

Carbon-carbon bond strengths in ethane, propane, and *n*-butane. E. R. Van Artsdalen. J Chem Phys 10:653 O '42

Carbon-hydrogen bond strengths in methane and ethane. H. G. Andersen, G. B. Kistiakowsky and E. R. Van Artsdalen. J Chem Phys 10:305 My '42

Dissociation of hexaarylethanes; ethanes derived from mixtures of triaryl halides. C. S. Marvel and C. M. Himel. Am Chem Soc J 64:2227 S '42

Dissociation of hexaarylethanes; the effect of naphthyl and biphenyl groups. C. S. Marvel and others. Am Chem Soc J 64:1824-5 Ag '42

Ethylene-ethane and propylene-propane equilibria. G. B. Kistiakowsky. bibliog J Chem Phys 10:78-9 Ja '42

Infra-red spectra of hydrocarbons; some investigations of the temperature dependence of absorption bands. W. H. Avery and C. F. Ellis. diag J Chem Phys 10:10-18 Ja '42

Ionization and dissociation by electron impact: normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42

Low frequency fundamental band of ethane at 12μ. R. G. Owens and E. F. Barker. J Chem Phys 10:146 F '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Strength of carbon-hydrogen and carbon-carbon bonds. D. P. Stevenson. bibliog diag J Chem Phys 10:291-4 My '42

ETHANOL. See Alcohol

ETHANOLAMINE

Action of monoethanolamine on ethyl bromomalonate. C. B. Kremer, M. Meltsner and H. Hindin. Am Chem Soc J 64:1010 Ap '42

Conductometric titrations in non-aqueous solutions; study of acid-base equilibria in monoethanolamine and formation of complex ammines in ethanol. J. T. Pinkston and H. T. Briscoe. J Phys Chem 46:469-73 Ap '42

Ethanolamines. C. B. Kremer. bibliog J Chem Educ 19:80-1 F '42

Monoethanolamine extraction of wood for the determination of cellulose. P. Bloom, E. C. Jahn and L. E. Wise. bibliog Paper Tr J 115:33-40 S 3 '42; Excerpt. Paper Ind 23:1030-2 Ja '42

Synthesis of 2-alkylaminoethanols from ethanolamine. A. C. Cope and E. M. Hancock. bibliog Am Chem Soc J 64:1503-6 Jl '42

ETHANOLYSIS. See Alcoholysis

ETHENE. See Ethylene

ETHER (anesthetic). See Ethyl ether

ETHERIDGE, Pat, 1878-

44 years of steady growth and consistent profits! por Inland Ptr 109:59 Ag '42

ETHERS

Acetylenic ethers; ethoxy- and butoxyacetylene. T. L. Jacobs, R. Cramer and J. E. Hanson. bibliog Am Chem Soc J 64:223-6 F '42

Allylic rearrangements; kinetics and mechanisms of the conversion of crotyl and methylvinylcarbinyl chlorides to acetates and ethyl ethers. J. D. Roberts, W. G. Young and S. Winstein. bibliog Am Chem Soc J 64:2157-64 S '42

Cinchona alkaloids in pneumonia; some ethers of 6′-(β-thiolethyl)-apocupreine. R. S. Tipson and L. H. Cretcher. bibliog Am Chem Soc J 64:1162-4 My '42

Cleavage of ethers with boron bromide; some common ethers. F. L. Benton and T. E. Dillon. Am Chem Soc J 64:1128-9 My '42

Halogenation of phenolic ethers and anilides; some Arrhenius activation energies. B. Jones. Chem Soc J p418-20 Jl '42

Keto ethers; propoxymethyl alkyl (or phenyl) ketones. H. R. Henze and others. Am Chem Soc J 64:1222-3 My '42

Some mono- and di-alkyl ethers of stilboestrol. E. E. Reid and E. Wilson. Am Chem Soc J 64:1625-6 Jl '42

Studies on oxygen absorption induced by ether linkages; rates of oxygen absorption by dioxolane and methyldioxolane. R. R. Legault and D. C. Lewis. bibliog Am Chem Soc J 64:1354-6 Je '42

See also

Cellulose ethers

Ethyl ether

ETHICS

Civic morals of science. C. C. Williams. J Eng Educ 32:504-10 Mr '42

Credidimus Jovem regnare; thinking about the world in the Greek way. F. H. Pike. Science 95:432-3 Ap 24 '42

New East in a new world. W. E. Hocking. il diags Fortune 26:106-11+ Ag '42

Our moral chaos; can science and religion together establish new moral universals? W. L. Sperry. Fortune 25:102-4, 106, 108 My '42

See also

Accounting ethics

Advertising ethics

Business ethics

Engineering ethics

History

Moral ideals of our civilization. R. A. Tsanoff. 636p $5 Dutton '42

ETHICS, Chinese

New East in a new world. W. E. Hocking. il diags Fortune 26:119+ Ag '42

ETHICS, International. See International ethics

ETHIOPIA

Future of Abyssinia. Economist 141:683-4 D 6 '41

ETHNOGEOGRAPHIC board

Ethnogeographic board established. W. D. Strong. Science 96:381-2 O 23 '42

ETHNOLOGY

Russia

Peoples of the Soviet Union. A. Hrdlička. 29p Smithsonian institution, Washington, D.C. '42

ETHOXY compounds

Acetylenic ethers; ethoxy- and butoxyacetylene. T. L. Jacobs, R. Cramer and J. E. Hanson. bibliog Am Chem Soc J 64:223-6 F '42

ETHOXYETHANES

Preparation and properties of certain polyethoxyethanes and their bromo derivatives. S. M. McElvain and P. M. Walters. bibliog Am Chem Soc J 64:1963-5 Ag '42

ETHOXY group

New methods for investigating the distribution of ethoxyl groups in a technical ethylcellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:9-15 Ja '42

ETHOXYL group. See Ethoxy group

ETHYL acetate

Heats of mixing in the ternary system ethanol—acetic acid—ethyl acetate by a rapid approximate method. B. Longtin. bibliog J Phys Chem 46:399-405 Mr '42

ETHYL acetoacetate

Condensation of o-phenylenediamine with ethyl acetoacetate. W. A. Sexton. Chem Soc J p303-4 Ap '42

ETHYL alcohol. See Alcohol

ETHYLAMINE

Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

Preparation of γ-alkylamides of glutamic acid. N. Lichtenstein. Am Chem Soc J 64:1021-2 My '42

ETHYL benzanthracene

Nephelometric method for determination of solubilities of extremely low order. W. W. Davis and T. V. Parke, jr. Am Chem Soc J 64:101-7 Ja '42

ETHYL benzene

Catalytic poly plants may be used to produce ethyl benzene. Oil & Gas J 41:34 Jl 16 '42

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:52 S 17 '42

Ethyl benzene plan provides agricultural-alcohol outlet. diags Oil & Gas J 41:14-15 Ag 6 '42

Quick ethyl benzene output seen in Atlantic discovery. Nat Pet N 34:3+ Jl 29 '42

To use ethyl alcohol for quick output of ethyl benzene. Nat Pet N 34:38-9 Ag 5 '42

ETHYL benzoate

Catalytic effect of electrolytes on solvolytic reactions; reactions between *n*-butylamine and ethyl phenylacetate and between liquid ammonia and ethyl benzoate. L. F. Audrieth, L. D. Scott and O. F. Hill. Am Chem Soc J 64:2498-9 O '42

ETHYL bromomalonate

Action of monoethanolamine on ethyl bromomalonate. C. B. Kremer, M. Meltsner and H. Hindin. Am Chem Soc J 64:1010 Ap '42

ETHYL carbamate. See Urethans

ETHYL cellulose

Ethyl cellulose is base of rubber-replacing plastic. Sci Am 167:208 N '42

Ethylcellulose sheeting in package fabrication. F. C. Dulmage, jr. and T. A. Kauppi. il diags Mod Packaging 15:88, 90, 92 Ja '42

Frozen dozen; ethyl cellulose refrigerator tray. il Mod Plastics 19:49 Ap '42

New formulations of ethyl cellulose plastic designed to replace rubber. J. M. Crowe. Chem Ind 51:371 S '42

New methods for investigating the distribution of ethoxyl groups in a technical ethylcellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:9-15 Ja '42

Soft, rubber-like plastics; cellulose derivatives compounded with chemical and oil plasticizers. D. R. Wiggam. Mod Plastics 19:50-1 Ag '42; Same. Rubber Age 51:381-2 Ag '42

Analysis

Determination of alkoxyl groups in cellulose ethers. E. P. Samsel and J. A. McHard. bibliog il diags Ind & Eng Chem Anal ed 14:750-4 S 15 '42

ETHYL chloride

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:46 Ag 20 '42

ETHYL cyanoacetate. See Cyanoacetic ester

ETHYL ether

Composition of alkylmagnesium chloride solutions in ethyl ether. C. R. Noller and A. J. Castro. Am Chem Soc J 64:2509-10 O '42

Electrolysis of Grignard reagents; short-lived free radicals in ethyl ether. R. Pearson and W. V. Evans. bibliog Electrochem Soc Trans 82 (preprint 23):257-64 O '42

Humidity control for ether fumes. Heat & Ven 39:55 S '42

Inflammability of ether-oxygen-helium mixtures; their application in anesthesia. G. W. Jones, R. E. Kennedy and G. J. Thomas. U S Bur Mines Rep of Invest 3589:1-15, pl 1 '41

Partition ratios of some organic acids between water and ethyl ether. O. C. Dermer, W. G. Markham and H. M. Trimble. Am Chem Soc J 63:3524-5 D '41

ETHYL ether—*Continued*

Analysis

Analysis of divinyl ether in blood. W. L. Ruigh. bibliog il Ind & Eng Chem Anal ed 14:32-4 Ja 15 '42

ETHYL formate

Industrial uses of chemicals. Oil Paint & Drug Rep 140:33 D 8 '41; 142:85 O 5 '42

ETHYL fumarate

Synthesis of condensed ring compounds; further applications of the dienyne double addition reaction. L. W. Butz and L. M. Joshel. bibliog Am Chem Soc J 64:1311-13 Je '42

ETHYL gasoline corporation

Ethyl combines its technical divisions for war. pors Nat Pet N 34:22 F 18 '42

Ethyl gasoline corporation allocates tetraethyl fluid. Nat Pet N 33:5+ N 19 '41

Ethyl rationed. Business Week p31 D 6 '41

ETHYL glyoxylate

Electrolytic preparation of ethyl glyoxylate. W. Oroshnik and P. E. Spoerri. Am Chem Soc J 63:3338-9 D '41

ETHYL hexanol

Separation of lithium from potassium and sodium by treatment of the chlorides with higher aliphatic alcohols. E. R. Caley and H. D. Axilrod. Ind & Eng Chem Anal ed 14:242-4 Mr 15 '42

ETHYL iodide

Products from the Wurtz reaction and the mechanism of their formation. A. Saffer and T. W. Davis. bibliog Am Chem Soc J 64:2039-43 S '42

ETHYL iodophenylundecylate

Iodinated organic compounds as contrast media for radiographic diagnoses; iodinated aracyl esters. W. H. Strain, J. T. Plati and S. L. Warren. bibliog Am Chem Soc J 64:1436-40 Je '42

ETHYL maleate

Addition of maleic anhydride and ethyl maleate to substituted styrenes. B. J. F. Hudson and R. Robinson. Chem Soc J p715-22 N '41

ETHYL mercaptan

Limits of inflammability and ignition temperature of ethyl mercaptan in air. G. W. Jones, R. E. Kennedy and W. E. Miller. diag U S Bur Mines Rep of Invest 3648:1-6 '42

ETHYL phenylacetate

Catalytic effect of electrolytes on solvolytic reactions; reactions between n-butylamine and ethyl phenylacetate and between liquid ammonia and ethyl benzoate. L. F. Audrieth, L. D. Scott and O. F. Hill. Am Chem Soc J 64:2498-9 O '42

Catalytic effect of water on the aminolysis of ethyl phenylacetate in n-butylamine. P. K. Glasoe, L. D. Scott and L. F. Audrieth. Am Chem Soc J 63:2965-7 N '41

ETHYL propionylacetate

Condensations; the acylation of the anions of certain alkyl esters with phenyl esters; a new method for the preparation of ethyl propionylacetate and certain related β-keto esters. B. Abramovitch and C. R. Hauser. bibliog Am Chem Soc J 64:2271-4 O '42

ETHYLAL. See Acetaldehyde

ETHYLENE

Acetylene and other war chemicals made by cracking in a regenerative furnace. diags Nat Pet N 34 pt 2:R270-2, R274-6 Ag 26 '42

Catalytic vapor-phase alkylation of benzene with ethylene; abstract. W. A. Pardee and B. F. Dodge. Nat Pet N 34 pt 2:R318 S 30 '42

Ethylene-ethane and propylene-propane equilibria. G. B. Kistiakowsky. bibliog J Chem Phys 10:78-9 Ja '42

Halogen addition to ethylene derivatives. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:697-716 Mr '42

Hydrocarbons polymers. V. E. Yarsley. Electrician 128:164-6 F 27 '42

Infra-red absorption spectra of ethylene and tetra-deutero-ethylene under high resolution. W. S. Gallaway and E. F. Barker. bibliog J Chem Phys 10:88-97 F '42

Mercury photosensitized reactions of ethylene. D. J. LeRoy and E. W. R. Steacie. bibliog diags J Chem Phys 9:829-39 D '41

Phase behavior of the acetylene-ethylene system. S. W. Churchill, W. G. Collamore and D. L. Katz. bibliog diag Oil & Gas J 41:33-4, 36+ Ag 6 '42

Polymerization of ethylene photosensitized by 5^1P_1 cadmium atoms. E. W. R. Steacie and D. J. LeRoy. bibliog il diag J Chem Phys 10:22-34 Ja '42

Sources of thermodynamic data; methods of application to the industry; hydration of ethylene. J. G. Aston. bibliog il Ind & Eng Chem 34:514-21 My '42

Structure of substituted ethylenes and their isomerization, polymerization and peroxide addition reactions. R. A. Harman and H. Eyring. bibliog J Chem Phys 10:557 Ag '42

Studies in gaseous hydrogenation and polymerization reactions. H. D. Burnham and R. N. Pease. bibliog Am Chem Soc J 64:1404-10 Je '42

Synthesis of condensed ring compounds; the successful use of ethylene in the Diels-Alder reaction. L. M. Joshel and L. W. Butz. bibliog Am Chem Soc J 63:3350-1 D '41

Thermal reaction of ethylene with acetylene. E. A. Naragon, R. E. Burk and H. P. Lankelma. bibliog Ind & Eng Chem 34:355-8 Mr '42

Zinc photosensitized reactions of ethylene. H. Habeeb, D. J. LeRoy and E. W. R. Steacie. bibliog il J Chem Phys 10:261-7 My '42

ETHYLENE chloride

Binary mixtures for testing fractionating columns at atmospheric and reduced pressures. L. B. Bragg and A. R. Richards. bibliog Ind & Eng Chem 34:1088-91 S '42; Discussion. 34:1533 D '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50; Discussion. 50-1 F '42

Ethylene dichloride; hazards and precautions. Nat Safety N 46:52, 54 Ag '42

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Industrial uses of chemicals and related materials; ethylene dichloride. Oil Paint & Drug Rep 142:60 N 9; 66 N 16; 33 N 23 '42

ETHYLENEDIAMINE

Cupriethylenediamine as a solvent for cellulose fractionation. F. L. Straus and R. M. Levy. bibliog Paper Tr J 114:33-7 Ap 30 '42; Abstract. Paper Ind 24:762-4 O '42

Cupri-ethylene diamine disperse viscosity of cellulose. F. L. Straus and R. M. Levy. bibliog diag Paper Tr J 114:31-4 Ja 15 '42

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42

Organic solvents; polyhydric alcohols: amine compounds: chlorethylenes. S. Yates. Textile Col 64:231 My '42

ETHYLENE dichloride. See Ethylene chloride

ETHYLENE glycol. See Glycol

ETHYLENE halides

Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

ETHYLENE oxide

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Supreme court decides ethylene oxide suit. T. F. Healy. Chem & Eng N 20:671 My 25 '42

ETHYLENE thiourea
Qualitative test for ethylene and propylene thioureas. C. O. Edens and T. B. Johnson. Am Chem Soc J 63:3527 D '41

ETHYLIDENE diacetate
Solubility diagrams for the systems ethylidene diacetate-acetic acid-water and vinyl acetate-acetone-water. J. C. Smith. J Phys Chem 46:229-32 F '42

ETIO-CHOLANOLONE
Sterols; the conversion of pregnan-3(β)-ol-20-one into etio-cholan-3(β)-ol-17-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:817-18 Ap '42

ETYMOLOGY
What does a voucher vouch? some origins of words and expressions used in banking. E. J. Kilduff and R. F. Brosius. il Banking 34:28-9 F; 66-7 Mr '42

EUCARVONE
Observations on the absorption spectra of terpenoid compounds; the thiosemicarbazones of irone, eucarvone, and some related ketones. A. E. Gillam and T. F. West. Chem Soc J p483-6 Ag '42

EUGLENA
Green blush; when euglena blushes pigments shift. Sci Am 166:192 Ap '42

EUREKA casualty company
Company analysis. Spectator (Property ed) 7:38-9 Mr 5 '42

EUROPE
American engineer looks at Europe. C. A. Powel. Power Pl Eng 46:75-7+ S '42
Eastern marchlands of Europe. H. G. Wanklyn. 356p 12s 6d G. Philip & son, London '41
Europe: how Germany rules it. Fortune 24:132, 134, 136 D '41

See also
Public utilities—Europe

Anti-German activities

Europe: how it resists. il Fortune 24:99-101, 130 D '41
Underground Europe. Economist 142:818 Je 13 '42
Underground politics. Economist 143:197-8 Ag 15 '42

Civilization

Survey of European civilization; v. 2, From 1500 to the present. L. I. Snyder. 684p bibliog(p611-31) Stackpole sons, Harrisburg, Pa. '42

Commerce

European trade relations. Economist 142:292-3 F 28 '42
Trade policies of foreign countries during 1941; continental Europe. H. Chalmers. For Comm W 6:8-9+ F 7 '42

Economic conditions

Europe; a new economic order rises. maps Fortune 25:48-51+ Ja '42
Financial situation abroad. Published in monthly numbers of Bankers magazine
German Europe in 1941. Economist 142:sup14 Mr 14 '42

Economic history

Economic development in Europe. C. Day. rev ed 746p bibliog(p705-38) $4 Macmillan '42
Economic history of Europe, 1760-1939. E. L. Bogart. 734p bibliog(pxi-xiii) $4.50 Longmans '42

German occupation

See World war, 1939—Occupied territory

History

Europe: we missed the point; for twenty years we have misread European history. maps Fortune 24:94-7 D '41

Bibliography

Bibliography for the study of European history, 1815-1939. L. J. Ragatz, comp. 272p pa $2 Lowell Joseph Ragatz, 2121 Commonwealth av, Madison, Wis. '42

Maps

New order over Europe. Fortune 24:98 D '41

Politics and government

Studies in diplomacy and statecraft. G. P. Gooch. 373p $5 Longmans '42

EUROPEAN war, 1914-1918
Chemist in three wars. O. Eisenschiml. Science 96:350-2 O 16 '42

Campaigns and battles

Fight for Gallipoli. R. Keyes. 360p $5 Dutton '42

Claims

Black Tom claims show net recovery of $2,550,927. East Underw 42:18 D 19 '41

Commodity control

Competition under rationing. C. I. Gragg, A. Grimshaw and S. F. Teele. Harvard Business R 20 no 2:141-45 [Ja] '42
Review of paper controls of two World wars. A. N. Wecksler. Paper Ind 23:1198-9+ Mr '42
Washington's war-materials achievements; World wars I and II compared. L. Peat. Metals & Alloys 16:608-21 O '42

Diplomatic history

Prince Lichnowsky, ambassador of peace; a study of prewar diplomacy, 1912-1914. E. F. Willis. 318p bibliog(p304-6) pa $2.75 Univ. of California press, Berkeley '42

Economic aspects

Business behavior, 1919-1922; an account of post-war inflation and depression. W. F. Payne. bibliog J Business 15:sup1-215 Jl-O '42
Credit lessons of the last war. J. W. Edenburn. Credit & Fin Management 44:7-10 Ap '42
On the home front in 1918. Comm & Fin Chr 156:1337, 1347-9 O 15 '42
Wages and cost of living in two world wars. W. Bowden. Monthly Labor R 53:1103-25 N '41
War ago this week; summary of merchandising trends and events. Ptr Ink 197:23-4 D 26 '41; 198:39 Ja 9 '42

Finance

Experience of the last war. Nat City Bank p70-1 Je '42

Food question

On the home front in 1918. Comm & Fin Chr 156:1337, 1347-9 O 15 '42

Naval operations

Fighting the U-boats. E. K. Chatterton. 216p $5 Ryerson press '42
Graphical analysis of U-boat activities, 1917-18. W. W. Robertson. Engineering 154:175-6 Ag 28 '42

Peace and mediation

America's first crusade. H. Hoover. 81p $1.25 Scribner '42

Personal narratives

My war diary (1914-1919) recollections of Gallipoli, Lemnos, Egypt and Palestine. W. S. Brown. 134p 5s J. McQueen & sons, Galashiels, Eng. '41

Prices

Indexes of controlled and uncontrolled prices of all commodities in World war I, Aug. 1917-May 1919; chart. Survey of Cur Business 21:2 D '41
Metal prices in two wars. Min & Met 23:367-9 Jl '42
War-time price control and price movements in an open economy: Australia, 1914-20 and 1939-40. E. R. Walker and R. J. Linford. bibliog R Econ Statis 24:75-86 My '42
Why of over-all price control; background of present inflationary trend similar to that of last war. C. Vogel. Barron's 22:3 Ap 20 '42

EUROPEAN war, 1914-1918—*Continued*

United States

Alphabetical list of federal World war agencies, 1914-21. 124p Nat. archives, Washington, D.C. '42

Industrial conservation in the first World war. S. Stewart. Monthly Labor R 54:16-33 Ja '42

EUROPEAN war, 1939-. See World war, 1939-

EUROPIUM

Electrolysis of rare earth acetates and the separation of europium as amalgam from other rare earths. H. N. McCoy. bibliog Am Chem Soc J 63:3432-3 D '41

Energy states of solids; evidence from thermal data for the existence of low electronic energy levels in europium ion; the heat capacity of europium sulfate octahydrate from 60 to 300°K. E. A. Long and R. A. Degraff. bibliog Am Chem Soc J 64:1346-9 Je '42

Spark spectrum of europium, Eu II. H. N. Russell, W. Albertson and D. N. Davis. bibliog Phys R 60:641-56 N 1 '41

Analysis

Europium and ytterbium in rare earth mixtures; polarographic determination. H. A. Laitinen and W. A. Taebel. Ind & Eng Chem Anal ed 13:825-9 N 15 '41

EUROPIUM compounds

Intramolecular energy transfer; the fluorescence of complexes of europium. S. I. Weissman. J Chem Phys 10:214-17 Ap '42

EUROPIUM sulfate

Energy states of solids; evidence from thermal data for the existence of low electronic energy levels in europium ion; the heat capacity of europium sulfate octahydrate from 60 to 300°K. E. A. Long and R. A. Degraff. bibliog Am Chem Soc J 64:1346-9 Je '42

EUTHENICS (term)

Origin of the term euthenics. C. E. Seashore. Science 95:455 My 1 '42

Term euthenics. C. E. Seashore. Science 94:561-2 D 12 '41

EVACUATION centers

Alien camp built in 23 days. il Eng N 129:358-9 S 10 '42

Army rushes work on California alien camps as Coast war tension increases. il Eng N 128:460 Mr 26 '42

Business in evacuation centers. il Business Week p19-20+ Jl 18 '42

Camp facilities for 8,000 Japs completed in 17 days. il Eng N 128:952-3 Je 11 '42

Civilian defense buildings; evacuation centers. il plans Arch Forum 76:66-7 Ja '42

Evacuees to farms. Business Week p40+ S 19 '42

How army did it; handling of evacuation of 110,000 Japanese. Business Week p31 N 7 '42

Moving Mr Moto in toto; transporting Japanese evacuees. il Bus Transportation 21:352-4 Ag '42

EVANS, Earl Alison, 1910-

Eli Lilly prize won by Dr Evans. por Oil Paint & Drug Rep 141:7+ Ap 6 '42

EVANS, Rudolph Martin, 1890-

Appointment of Mr Evans to the Board of governors. Fed Res Bul 28:326 Ap '42

EVANS, William Lloyd, 1870-

Chemists institute medal won by Evans. por Oil Paint & Drug Rep 141:7 Ap 13 '42

EVANSVILLE, Indiana

Industries

Evansville gets publicity, no aid on priority shutdown. Iron Age 148:79-80 N 27 '41

Give us orders! and we'll solve production. il Fortune 25:58-62+ Mr '42

EVAPORATED films. See Films, Metallic

EVAPORATION

Apparatus for microevaporations. L. T. Kurtz. diag Ind & Eng Chem Anal ed 14:191 F 15 '42

Further experiments on the evaporation of water from saturated surfaces. R. W. Powell. bibliog Inst Chem Eng Trans 18:36-50 '40; Same abr. Engineering 150:238-9, 278-80 S 20, O 4 '40; Discussion. Inst Chem Eng Trans 18:51-5 '40

Interphase evaporation of sodium sulfate solutions; Glauber salt deposits in North Dakota. R. F. Schultz and I. Lavine. flow sheet bibliog il diag Ind & Eng Chem 34:59-64 Ja '42

Sulphite waste liquor evaporation. Paper Ind 24:222 My '42

See also

Crystallization
Dehydration
Distillation
Drying
Drying apparatus
Evaporators

EVAPORATION, Heat of

Heat transfer of evaporating Freon. C. M. Ashley. diags Refrig Eng 43:89-93; Discussion. 93-5 F '42

EVAPORATORS

Application of heat exchangers for increasing evaporator capacity and improving compressor performance. K. M. Newcum. diags Refrig Eng 43:77-9 F '42

Application of plate type evaporators to truck bodies. A. F. Sawyer. il Refrig Eng 43:349-50 Je '42

Arc-welded evaporators for use in sugar refining. il Engineering 153:45 Ja 16 '42

Evaporator assemblies; resistance welded at high speed. il diag Steel 110:96+ Ap 13 '42

Handbook of feedwater treatment; evaporators. diags Power 85:879-80 D '41

Heat balance equations for multiple-effect evaporators. M. G. Larian. Chem & Met Eng 49:90-1 O '42

Liquid refrigerant distribution to multi-circuit evaporators. F. M. MacDougall. il diags Refrig Eng 43:292-4 My '42

Plate type evaporators as used in locker plants. A. F. Sawyer. il Refrig Eng 44:17-18 Jl '42

Salt-water evaporator system reduces boiler operation cost. W. A. Shellshear. il diag Oil & Gas J 41:118-19 Je 25 '42

See also

Concentrators

Testing

Heat transfer of evaporating Freon. C. M. Ashley. diags Refrig Eng 43:89-93; Discussion. 93-5 F '42

EVENING and continuation schools

Evening graduate programs in the New York metropolitan region. E. Hausmann. J Eng Educ 32:649-66 Ap '42

EVENING public ledger. See Philadelphia public ledger

EVERETT, Washington

Water supply

Million dollar improvements for Everett water supply. il Pub Works 72:20+ N '41

EVERGREENS

Brown evergreens. Sci Am 166:143 Mr '42

EVERSHARP, inc.

Revamped sales policies, radio advertising, hike sales for Eversharp. M. L. Straus. il Sales Management 51:25-6 Jl 15 '42

EVIDENCE

Tests of significance considered as evidence. J. Berkson. Am Statis Assn J 37:325-35 S '42

EVIDENCE (law)

Evidence in New Jersey practice, text and annotations supplemented by form questions. J. P. Lodge. 988p $10 Soney & Sage co, Newark, N.J. '42

Photographic evidence, preparation and presentation. C. C. Scott. 922p $15 Vernon law book co, Kansas City, Mo. '42

So you are going to be a witness! A. Rose. 223p $3 Institute press, 234 E. 39th st, New York '41

Summary statement of the law of evidence in the state of Mississippi. J. B. Hutton, jr. 333p $5 E. L. Mendenhall, Kansas City, Mo. '41

EVIDENCE (law)—*Continued*

Testimony before commission and court. W. A. Bishop. bibliog J Ind Hygiene 24:159-62 Je '42

Wigmore's Code of the rules of evidence in trials at law. J. H. Wigmore. 3d ed 620p $5 Little '42

See also

Fingerprints

Medical jurisprudence

Photography, Legal

EVOLUTION

Days of creation. W. Ley. 275p $2.75 Modern age books, New York '41

Evolution and knowledge. W. E. Ritter. Science 95:58-61 Ja 16 '42

Man's biological future. A. M. Woodbury. Science 95:121-2 Ja 30 '42

See also

Species, Origin of

EWART, Peter, 1767-1842

Peter Ewart; biographical note. E. C. Smith. Engineering 154:216 S 11 '42

EWING, Esmond, 1891-

Executive head of Travelers Fire. C. Axman. por East Underw 42:58+ D 12 '41

EXAMINATIONS

See also

Accounting—Examinations

Chemistry—Examinations

EXCAVATING machinery

Cleaning of ponds and disposal of slurry solved by slackline cableway excavator. il diag Coal Age 46:70+ N '41; Abstract. Mech Handling 29:28-9 F '42

Comparisons of methods and costs of earth moving; abstract. G. W. Mork. S A E J 49:531 D '41

Electricity applied to single-bucket excavators; abstracts. P. H. R. Durand. plan Mech Handling 29:110-12 Je '42; Electrician 128:507-8 My 22 '42; Elec R (Lond) 130:636 My 15 '42; Discussion. Electrician 128:508-10 My 22 '42; Elec R (Lond) 130:656-8 My 22 '42

Excavating machinery in the ironstone fields. W. Barnes. il Engineer 174:108-11, 128-9, 144-6, 164-6 Ag 7-28 '42

Excavators do more and last longer when regularly oiled and checked. Coal Age 47:142 O '42

Large excavator; electrically operated plant for quarrying deep overburdens. il Elec R (Lond) 130:399-401 Mr 27 '42

Materials handling for Santa Fe dam. il diags map Eng N 129:434-7 S 24 '42

More power for America; Diesel-powered equipment is speeding work on defense line across the Isthmus of Panama. G. W. Cunningham. il Diesel Power 20:495-6 Je '42

Moving a million yards of wet clay. il Roads & Sts 85:66+ Mr '42

New shovel operation and dragline at Maumee mines in Indiana. il Coal Age 47:40-2 Mr '42

Osgood excavator, type 70. il Can Eng R & B 79:30 D '41

Primary and tandem dragline operation. L. Stewart. il Min Cong J 28:50 Je '42

Revolution in railroad grading equipment and methods. il Ry Age 112:536-41+ Mr 14 '42

Selection of earth-moving tires for better performance and economy. W. Lee. il diag S A E J 50:73-9 Mr '42

Selection of tires for better earth-moving efficiency. L. W. Fox. S A E J 50:176 My '42

Shovel and dragline performance. F. C. Ruhloff. il Civil Eng 12:302-4 Je '42

Tractor-mounted unit controls earth movers. diags Product Eng 13:312-14 Je '42

Tractor-scraper machines in war work. K. F. Park. il Civil Eng 12:299-302 Je '42

War maintenance; shovels and draglines, strip mines. il diags Coal Age 47:123-6 O '42

See also

Dredges

Electric shovels

Mining machinery

Shoveling machines

Subways—Construction

Manufacture

Original revolving type boom jig speeds complicated work. H. J. Hibbett. il diag Welding J 21:16 Ja '42

EXCAVATION

Blue Ridge parkway nears completion. il Roads & Sts 85:44, 47-8 Ap '42

Five-mile road job requires 700,000 cu. yd. excavation; State highway 80, California. il Roads & Sts 85:44-6 O '42

Heavy rock work features Kentucky road. il Eng N 129:305-7 Ag 27 '42

Hydro now one of Canada's largest earthmovers. il Roads & Bridges 80:28-9+ S '42

Protecting old hospital services big problem in new construction; Delaware hospital, Wilmington. il plan Eng N 127:686-7 N 13 '41

Removing mud pockets from filled ground. il Eng N 129:423 S 24 '42

Solving quantities in excavation and fill. B. F. Powell. Eng N 129:558-9 O 22 '42

Special shoring for building excavation; West central heating plant for the Public buildings administration in Washington. il diags Eng N 129:16-17 Jl 2 '42

Tough, but not too tough! difficulties in airport construction on rock. il Roads & Bridges 80:21-4+ S '42

See also

Aqueducts

Blasting

Dredging

Drilling and boring (earth and rocks)

Earthwork

Excavating machinery

Shoveling machines

Subways—Construction

Tunnels and tunneling

EXCAVATION, Subaqueous

See also

Dredging

Petroleum—Well drilling, Subaqueous

EXCAVATIONS (archeology)

All kinds of ways to dig; suction method used at Sandia cave, New Mexico. J. Feth. il Comp Air M 47:6689-90 Mr '42

Ancient Ostia; archeologists unearth Rome's once-thriving seaport. A. A. Boyce. il Sci Am 166:70-2 F '42

EX-CELL-O corporation

Brief appraisals of factors influencing market values. H. Lawrence. Barron's 22:13 O 5 '42

EXCESS coverage. See Insurance—Excess coverage

EXCESS insurance company of America

Excess wins case involving Central Mutual. Nat Underw 46:17+ Je 25 '42

EXCESS profits tax

Calls proposed change in profits tax defective, inequitable, working hardship on stockholders. A. M. Clifford. Comm & Fin Chr 155:834 F 26 '42

Companies paying no excess profits tax. H. Lawrence. Barron's 22:20 Mr 30 '42

Corporate tax compromise sought; lower tax or post-war credit. G. B. Bryant, jr. Barron's 22:4-5 Je 1 '42

Corporations and the 1941 taxes. J. K. Lasser. il Dun's R 49:5-14 O '41

Excess profits tax and mining. E. C. Alvord. Min Cong J 27:44-6 D '41

Excess profits tax inequalities between competitors. H. I. Young. il Min Cong J 28:28-9 Mr '42

Federal excess profits tax. K. Brewster. 910p $10 Ransdell, inc, 810-16 Rhode Island av, N.E. Washington, D.C. '41

Healthy, prosperous, strong, this company faces ruin; case study of tool manufacturer dramatizes how 94 per cent excess profits tax menaces numerous small businesses. G. A. Nichols. Ptr Ink 200:21+ Jl 10 '42

House committee approves 94% tax on excess profits for additional war revenue. Comm & Fin Chr 155:1777+ My 7 '42

Inequities of excess profits tax. Barron's 22:10 Ag 24 '42

EXCESS profits tax—*Continued*

New definition of invested capital may be sought in excess profits tax. E. Blair. Barron's 22:6 Ja 12 '42

Profits or capital tax? inadequate depreciation charges lead to dissipation of capital. F. M. Dannenberg. Trusts & Estates 74: 19-21 Ja '42

Proposed profit restrictions; what they will mean to business. J. Hirsch. Trusts & Estates 73:587-91 D '41

Review of recommendations for revision of the internal revenue code. T. G. Thurston. J Account 73:492-501 Je '42

Stable base of net exempt earnings. H. Lawrence. Barron's 22:13 Jl 6 '42

Stocks face war taxation. H. Lawrence; L. Tomlinson. Barron's 21:3-4 D 15 '41

Suppose profits are limited to 6 per cent; effects on individual companies. B. M. Fullerton. Mag of Wall St 69:585-7+ Mr 7 '42

Taxes, an operating problem. L. S. Cates. Min Cong J 27:42-3 D '41

Treasury opposes 6% limit on naval profits; favors high income, excess-profits taxes. R. Paul. Comm & Fin Chr 155:1358 Ap 2 '42

Urges Treasury hold taxes over 80% of excess profits tax as post-war recovery reserve. C. Davidson. Comm & Fin Chr 156: 461 Ag 6 '42

Egypt

Excess-profits tax imposed. For Comm W 5:14 N 22 '41

Great Britain

Excess profits tax. Engineer 173:166-7 F 20 '42

Excess profits tax, a practical exposition. H. E. Seed. 2d ed 348p 21s Gee & co, London '41

Excess profits tax, law and practice. R. Staples and R. E. Borneman. 3d ed 314p 15s Jordan & sons, London WC 2 '41

Excess profits tax law and practice, including all E.P.T. statutes and regulations, other relevant statutes (annotated). W. Miller. 392p 35s Eyre and Spottiswoode, London '40

Spain

New excess-profits tax law enacted. For Comm W 5:20 D 6 '41

EXCHANGE

Coupon age; equalisation of standard of living can be achieved by coupons. Economist 142:744 My 30 '42

See also

Balance of payments
Commerce
Foreign exchange
Money

EXCHANGES

Says controls stop excessive speculation. J. M. Mehl. Comm & Fin Chr 155:343 Ja 22 '42

See also

Stock exchange
also names of exchanges, e.g. New York curb exchange

EXCISE tax

Manufacturers' excise taxes under the Revenue act of 1941. H. P. Crawford. For Comm W 5:4-5+ D 27 '41

EXCITATION equipment

Blast furnace skip hoist operation with amplidyne exciter control. C. P. Hamilton. il diags Blast F & Steel Pl 30:1023-5 S '42

Direct-acting regulators on large Georgia generators. J. T. Logan. il diag Elec W 117:1494-6 My 2 '42

How Diesel-electric locomotive controls work. T. L. Weybrew. diags Diesel Power 20: 824-5 O '42

How to maintain constant linear speed and tension in material being unwound from one reel onto another. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110:78, 80 Mr 30 '42

Ignitor excitation circuits and misfire indication circuits. A. H. Mittag and A. Schmidt, jr. il diags Elec Eng 61:Trans 574-7 Ag '42

Two compound-wound exciters connected in parallel; reversal of polarity. diag Power 86:46-7 Ja '42

EXECUTIVE ability

Technique of executive control. E. H. Schell. 5th ed 252p bibliog(p242-8) $2 McGraw-Hill '42

EXECUTIVES

Bottom-up management; technique of William B. Given, jr. in building American brake shoe & foundry co. J. A. Murphy. Sales Management 50:18-21 My 15 '42

Business expert draft may be necessary. Comm & Fin Chr 155:1718 Ap 30 '42

Cardiovascular survey of supervisors. W. L. Cook, jr. Ind Med 11:320-1 Jl '42

Don Nelson's men; how they serve and where they stand; report to executives. pors Business Week p45-62 Jl 4 '42

Do's and don't's for new executives. D. Stevens. Factory Management 100:72+ Je '42

Executives look at the safety program; symposium. Concrete (mill sec) 49:286-9 D '41

Fortune management poll; what does the American executive think of his future? Fortune 26:8-10+ S '42

Getting things done in business. E. B. Wilson. 2d ed 287p $2.50 McGraw-Hill '42

Health examinations of executives; Dennison manufacturing company. H. G. Murray. Ind Med 11:435-6 S '42

Health of the executive. H. C. Habein. Ind Med 11:218-21 My '42; Abstract. Management R 31:189-90 Je '42

Office politics can be cut out for keeps. H. E. Fleming. Ptr Ink Mo 43:32+ D '41

Soliloquy by the boss' secretary. V. Young. il Ptr Ink 198:30, 32+ Ja 2 '42

Task of the executive in modern industry. J. Airey. J Eng Educ 32:472-9 Ja '42

Twelve ways to improve your work. J. Garth. Am Business 12:28-30 Ja '42

Want a war job? Civil service is lining up men with right kind of executive experience. Business Week p22 Mr 28 '42

Where can we get executives? G. Brown. Personnel J 21:47-53 Je '42

See also

Business management
Corporations—Directors
Credit managers
Efficiency, Industrial
Employment management
Factory management
Foremen
Industrial management
Office management
Organization in industry
Sales managers
Women as executives

Salaries

Corporate executives' compensation. G. T. Washington. 519p $7 Ronald press '42

Government takes a stand on pension abuses. Mag of Wall St 70:452 Ag 8 '42

Limiting executive salaries in wartime. J. C. Baker. Harvard Business R 21 no 1: 50-9 [S] '42; Summary. Trusts & Estates 75:547 D '42

Salaries and bonuses of corporate officers. J Account 74:358-9 O '42

Stockholders' forum; case against increased executive remuneration among companies whose expanded volume is due to war orders. Mag of Wall St 70:235-7, 346-7+, 398-9+ Je 13, Jl 11-25 '42

Training

How Swift trains future executives. F. C. Minaker. il Am Business 12:16-18+ Ja '42

Training for executive leadership. W. Rothschild. J Retailing 18:33-4 Ap '42

Training on job is held best for future executives; argument against formal courses. G. Biggs. Ptr Ink 198:19, 38+ Mr 13 '42

What can colleges do to assist industry in training executives. A. R. Kelso. Advanced Management 7:2-6 Ja-Mr '42

What colleges are doing to assist industry in training executives. R. C. Davis. Advanced Management 7:7-9 Ja-Mr '42

See also

Foremen—Training

EXECUTORS and administrators

Cases and materials on the law of fiduciary administration. L. M. Simes. 533p $5.50 Callaghan '41

Competition for executorships; bulk of business now goes to individuals. P. P. Pullen. Burroughs Clearing House 26:20-2+ Jl '42

Interim provisions for dependents of missing persons. F. D. McGarey. Trusts & Estates 75:281-3 S '42

See also

Probate law
Trusts and trustees
Wills

EXERCISE

How to be fit. R. Kiphuth. 131p $2 Yale univ. press '42

How to feel better and look it. F. T. Kimball and A. W. Allen. 280p bibliog(p262-6) $2.50 Duell, Sloan & Pearce, New York '42

Lady be fit! exercises for energy, efficiency and lasting health. D. Nye. 91p $1.75 Harper '42

Physical conditioning; exercises for sports and healthful living. G. T. Stafford and R. O. Duncan. 110p $1 A. S. Barnes & co, 67 W. 44th st, New York '42

Pounds off! M. MacLevy. 193p $1.50 Prentice-Hall '42

6 minutes to fitness. L. Malmstead. 96p M. Barrows & co, 443 4th av, New York '42

You don't have to exercise! rest begins at forty. P. J. Steincrohn. 207p $1.50 Doubleday '42

EXHAUST steam

Bled steam for chemical processing; importance of economic engine design. H. Seymour. Chem Age (Lond) 46:111-12 F 28 '42

EXHAUST systems

Air flow measurement by the dilution method. T. Hatch and R. H. Walpole, jr. diags Heat & Ven 39:24-6 Je '42

Curtiss-Wright corporation installs complete exhaust systems. M. A. Jensen. il Heat & Ven 39:38-40 My '42

Evasee on a centrifugal exhaust fan. W. S. Weeks. diags Eng & Min J 143:45-7 Ja '42

Exhaust system for cleaning beans. diags Sheet Metal Worker 32:34-5 N '41

Factory ventilation. il Automobile Eng 32:331-3 Ag '42

Getting rid of air contaminants. G. C. Harrold. il Nat Safety N 44:20-1, 68-9 D '41

Industrial exhaust ventilation; reference section. F. F. Kravath. il diags Heat & Ven 39:36-58 Ap '42

Industrial ventilation. il Nat Safety N 45:91-2+ Mr '42

Measuring air flow at intake (or exhaust) grilles; tests made by G. L. Tuve give factors and recommendations for proper use of new attachment for air velocity meters. il Heating-Piping 13:740-3 D '41

Power costs are lower if dust exhaust systems are well balanced. W. C. L. Hemeon. diags Heat & Ven 38:18-25 D '41

Reliance electric & engineering company improves its rotor casting department. il Heat & Ven 39:30 Je '42

Spray booth exhaust system. diags Sheet Metal Worker 33:33-4 F '42

Syracuse post-standard installs exhaust ventilating system in pressroom; filters prevent flying ink particles from coating the ductwork and fan. D. M. Lyon. il Heat & Ven 39:29 Je '42

Tank ventilating power costs cut by low velocity systems. W. B. Harris. diag Heat & Ven 39:42-5 Jl '42

Transite for chemical fumes; Searle chemical co. il Sheet Metal Worker 33:82-3 Ja '42

Utilization of wood refuse for steam raising. R. B. Gillham. Inst Mech Eng J & Proc 147: Proc 32-3, pl 1 Ap '42; Same. Engineering 153:198 Mr 6 '42

Vanadium corporation of America builds new laboratory with exhaust ventilating system. il Heat & Ven 39:41 Jl '42; Blast F & Steel Pl 30:684 Je '42; Heating-Piping 14:408 Jl '42

Ventilation for control of fumes in wartime welding work. W. C. L. Hemeon. diags Heating-Piping 14:341-4+ Je '42

See also

Dust removal

EXHIBITIONS

Industrial expositions. Published in monthly numbers of Industrial marketing

Industrial expositions; 1942 chronology. Ind Marketing 27:58 Ja '42

New facts on Venezuelan expositions, 1942. For Comm W 9:41 O 31 '42

See also

Chemical industries—
Exhibitions

EXHIBITS

Bullard emphasizes new products with newspaper stunt. il Ind Marketing 26:38+ D '41

Making industrial exhibits pay. Ind Marketing 27:102 F '42

Permanent exhibit for the Sonotone company. il diags plan Arch Forum 77:64-6 Ag '42

Primer for industrial exhibitors. 63p $3 Assn. of nat. advertisers, New York '41

EXHIBITS, Traveling

Equipment for an extended trip afield; photographing General Motors' Parade of progress. J. Mills, jr. il Photo Tech 3:18-21 D '41

Florida salesmen outwit gas and tire shortage with bus caravan; twenty-five competing representatives staging big joint merchandise exhibitions. Sales Management 51:42-3 O 1 '42

Latin trade fairs; two traveling exhibits organized, one by Peru, one by Macy's. Business Week p68 N 22 '41

Mobile demonstration unit aids farmers in maintenance of electrical equipment. C. E. Jeerings. il Edison Elec Inst Bul 10:344+ S '42

Portable show boosts industrial lighting; Public service company of northern Illinois. il Elec W 116:2029+ D 27 '41

Salesmen make new customers, save rubber, gasoline and time; reversion to old-time hotel sample room. Ptr Ink 200:24 S 25 '42

Soft-spoken promotion widens markets for ethical products; S. H. Camp & co. scientific supporting garments; transparent woman. il Sales Management 50:28, 30, 32 Ja 15 '42

EXILED governments. See World war, 1939—Exiled governments

EXPANDED metal. See Sheet metal, Expanded

EXPANSION (heat)

Alloys of manganese-nickel and copper; the coefficient of thermal expansion. R. S. Dean, C. T. Anderson and E. V. Potter. il Am Soc for Metals Trans 29:907-12 D '41

Crystal-chemical studies of the alums; coefficients of linear thermal expansion. H. P. Klug and L. Alexander. bibliog Am Chem Soc J 64:1819-20 Ag '42

Dilatometric equipment from the Lunkenheimer co., Cincinnati. H. E. Montgomery and J. W. Bolton. il diag Metals & Alloys 16:52-5 Jl '42

Expansion, contraction, and strength changes of some clays during firing. R. K. Hursh and M. K. Blanchard. il diags Am Cer Soc J 25:351-4 Ag 1 '42

Expansion of crude petroleum, petroleum products and allied substances. Inst Pet J 27:402-17 N '41

Low expansion alloys for glass-to-metal seals. W. E. Kingston. bibliog diags Am Soc for Metals Trans 30:47-67 Mr '42

Over-all linear expansion of three face-centered cubic metals (Al, Cu, Pb) from —190 degrees cent. to near their melting points. J. W. Richards. diags Am Soc for Metals Trans 30:326-34 bibliog(45 references, p333-4); Discussion. 334-6 Je '42

Recent studies of the thermal expansion of metals and alloys. il J Ap Phys 12:843-4 D '41

EXPANSION (heat)—*Continued*

Thermal expansion of pure metals: molybdenum, palladium, silver, tantalum, tungsten, platinum, and lead. F. C. Nix and D. MacNair. bibliog Phys R 61:74-8 Ja 1 '42

Thermal expansion of single and optically mosaic zinc crystals. W. P. Staker. bibliog diags Phys R 61:653-7 My 1 '42

Transition temperature and cubical expansion of plastic materials. F. E. Wiley. bibliog il diag Ind & Eng Chem 34:1052-6 S '42

Zirconia-magnesia spinel system. R. F. Mather. bibliog il Am Cer Soc J 25:93-6 F 1 '42

See also

Concrete—Expansion and contraction
Glass—Expansion and contraction
Metals—Expansion and contraction
Stoneware—Expansion and contraction

EXPEDITERS. See Factory management; Munition factories—Management

EXPERTS in government. See Public officials—Directories

EXPLOSIONS

Cause and prevention of explosion hazards; unburned fuel-air mixtures in boilers, ovens and driers. T. A. Cohen. il diags Food Ind 14:58-9+ Je '42

Characteristics of liquefied petroleum gas that affect its fire hazard. M. B. Anfenger and O. W. Johnson. Am Pet Inst Proc 22(1):50-3 '41

Collected notes on chemical safety; concerning fire and explosion hazards. J. Creevey. Chem Age (Lond) 45:257 N 15 '41

Collected notes on chemical safety; explosions in stills and reaction vessels. J. Creevey. Chem Age (Lond) 45:313 D 20 '41

Damage from air blast. S. L. Windes. pls U S Bur Mines Rep of Invest 3622:1-18 '42; Excerpts. Concrete (mill sec) 50:172-3 My '42

Dangers in handling dyestuffs. J. Creevey. Chem Age (Lond) 46:255 My 16 '42

Defective service line; explosion liability of gas company. L. Childs. Am Gas J 156:27-8 F '42

Design of air-blast meter and calibrating equipment. A. T. Ireland. bibliog il diags U S Bur Mines Tech Pa 635:1-20; pa 10c Supt. of doc. '42

Elimination of combustion hazards in the paint industry. T. A. Cohen. il diags Paint Oil & Chem R 104:24, 26-7 F 26 '42

Explosion of a paper machine roll causes extensive damage. Locomotive 44:48-9 Ap '42

Explosion of lard cooling roll kills 2, injures 12. Locomotive 44:113+ O '42

Few tangible facts about cause of tragic quarry blast; Sandts Eddy quarry of the Lehigh portland cement company. Concrete (mill sec) 50:178 My '42

Gas explosions in buildings; their cause and prevention. D. J. Parker and C. W. Owings. U S Bur Mines Information Circ 7142R:1-32 '41

Misuse of blasting caps blamed for accident. Rock Prod 45:95-6 My '42

New type window pane withstands explosions; transparent plastic laminated with wire mesh. Iron Age 150:95 Jl 16 '42

Prevention of fires, explosions, and accidents from inflammable fluids. G. M. Kintz. Pet Eng 13:77+ Je; 75-6+ Jl '42

Safe electric trucks; explosion-prevention. il Safety Eng 83:31-2 Je '42

Safe practice in the chemical laboratory; avoidance of explosions. J. Creevey. Chem Age (Lond) 45:207 O 18 '41

Tank gives warning before explosion. il Locomotive 44:83+ Jl '42

Theoretical calculations for explosives; explosion pressures. F. W. Brown. U S Bur Mines Tech Pa 643:1-26 bibliog(42 titles, p25-6); pa 10c Supt. of doc. '42

Theoretical calculations for explosives; explosion temperatures and gaseous products and the effects of changes in carbonaceous material. F. W. Brown. bibliog U S Bur Mines Tech Pa 632:1-21; pa 5c Supt. of doc. '41

See also

Boiler explosions
Bombs, Aerial
Coal dust
Coal mines and mining—Accidents and explosions
Dust explosions
Explosives
Inflammable mixtures

EXPLOSIVE rivets. See Rivets

EXPLOSIVES

Annual report of the Explosives division, fiscal year 1941. W. J. Huff. bibliog pls U S Bur Mines Rep of Invest 3602:1-36 '42

Basic research on explosives. R. W. Lawrence. il diags Explosives Eng 20:131-6 My '42

Behind-the-scenes story of explosives. Chem Ind 50:490+ Ap '42

Blasters' handbook. 11th ed 339p bibliog(p323-4) $1 E. I. du Pont de Nemours & co, Wilmington, Del. '42

Explosives and munitions. Explosives Eng 20:98 Ap '42

Explosives and their military applications. R. H. Kent. il J Ap Phys 13:348-54 Je '42

Explosives opened up new frontiers of peace as well as the conquests of war. J. Early. il Barron's 22:8 F 16 '42

Industrial and military explosives. R. W. Cairns. il diags J Chem Educ 19:109-15 Mr '42; Same. Explosives Eng 20:159-65 Je '42

Laboratory course in the chemistry of powder and explosives. J. W. Greene, A. L. Olsen and W. L. Faith. bibliog il J Chem Educ 19:30-2 Ja '42

Theoretical calculations for explosives; explosion pressures. F. W. Brown. U S Bur Mines Tech Pa 643:1-26 bibliog(42 titles, p25-6); pa 10c Supt. of doc. '42

Theoretical calculations for explosives; explosion temperatures and gaseous products and the effects of changes in carbonaceous material. F. W. Brown. bibliog U S Bur Mines Tech Pa 632:1-21; pa 5c Supt. of doc. '41

U.S. indicts 6 firms as explosive trust. Oil Paint & Drug Rep 141:3 Je 15 '42

Use of explosive cord for cleaning perforations. W. A. Sawdon. il diag Pet Eng 13:42, 44 Ag '42

Use of mercury in contact with ammonia. R. G. Roberts. Science 94:591-2 D 19 '41

See also

Blasting
Bombs, Aerial
Cartridges, Dynamite
Cordite
Detonators
Gunpowder
Inflammable liquids
Nitrocellulose
Nitromethane
Oxygen, Liquid
Rack-a-Rock
Smokeless powder
Torpedoes
Trinitrotoluene

Analysis

Analysis of atmospheric samples of explosive chemicals. F. H. Goldman. J Ind Hygiene 24:121-2 My '42

Variations in oxygen condition between individual cartridges and between cases of permissible explosives. A. P. Rowles and A. R. T. Denues. U S Bur Mines Rep of Invest 3621:1-29 '42

Laws and regulations

Comments on the Federal explosives act and regulations. Explosives Eng 20:86 Mr '42

Explosives act of 1917 revised and passed. Oil Paint & Drug Rep 140:40 D 15 '41

Explosives control in effect. Min Cong J 28:60 Ja '42

Explosives ingredients defined by U.S.B.M. Explosives Eng 20:142 My '42

Explosives redefined under Federal act. Oil Paint & Drug Rep 142:3+ Jl 27 '42

Explosives under full wartime control; text of new Federal explosives act and administrative regulations issued by U.S. Bureau of mines. Explosives Eng 20:38-44, 58-60 F '42

EXPLOSIVES—Laws and regulations—*Cont.*

Federal explosives act revised on firecrackers. Oil Paint & Drug Rep 141:3+ Je 15 '42

Regulations for the control of explosives and their ingredients in time of war or national emergency. 16p U.S. Bur. of mines, Washington '42

Manufacture

Australia's chemical progress; advances in explosives manufacture. il Chem Age (Lond) 47:164-5 Ag 15 '42

Canada's war-time explosives and chemical programme. J. R. Donald. Can Chem & Process Ind 25:686+ D '41

Chickasaw ordnance works, Memphis. Chem & Eng N 20:438 Ap 10 '42

From the ground up; war time chemical industry; production of explosives and munitions. D. M. Considine. Sci Am 166:278-80 Je '42; Correction. 167:28 Jl '42

Natural gas derivatives can be converted into wide range of wartime chemicals. G. Egloff. il Nat Pet N 34 pt 2:R345-6 O 28 '42

Occupational hazards to young workers; explosives-manufacturing industries. U S Children's Bur Pub 273:1-19; pa 10c Supt. of doc. '42

War explosives and the South's chemical industry. il Manuf Rec 111:30-1+ My '42

See also

Smokeless powder—
Manufacture

Safety measures

Army sets up safety body on munitions. Safety Eng 84:32 S '42

Instructions and rules for users of high explosives and permissible explosives. diags Explosives Eng 20:266-8 S '42

Safety sermonettes; explosives and blasting. W. B. Paton. Can Min J 63:586-8 S '42

Safety's triangle; vigilance, cleanliness and morale; shell loading and ordnance plants. J. R. Mardick. il Safety Eng 83:13, 16 Ap '42

Storage and handling of explosives underground. E. D. McNeil, jr. il Explosives Eng 19:355-7 D '41

Statistics

Production of explosives in the United States during the calendar year 1940. W. W. Adams, V. E. Wrenn, and L. S. Horton. U S Bur Mines Tech Pa 636:1-30; pa 10c Supt. of doc. '42

Storage

Concrete beehive for munitions storage. F. R. MacLeay. il diags Eng N 128:498-500 Mr 26 '42

Metal igloos speed eastern airbase job. il Eng N 129:324-5 S 3 '42

Testing

Effects of carbonaceous blasting accessories on gaseous products from explosives. J. C. Holtz and E. J. Murphy. pls U S Bur Mines Rep of Invest 3641:1-24 '42

Practical fire-sensitivity of liquid-oxygen explosives treated with fire-retardants. A. R. T. Denues. U S Bur Mines Rep of Invest 3605:1-6 '41; Same. Eng & Min J 143:163-4 F '42

Shelters for ammunition-proving ground. il Engineering 152:336 O 24 '41

Transportation

British regulation of carriage of explosives by highway. For Comm W 8:21 Ag 1 '42

Delivers auto-railer train for carrying explosives. il Ry Age 112:962+ My 16 '42

Explosives rules amended. Chem Ind 50:651 My '42

Explosives trucking rules revised by I.C.C. Oil Paint & Drug Rep 142:3+ S 14 '42

'41 explosives record perfect; A.A.R. reports no casualties. Ry Age 113:27+ Jl 4 '42

Hazardous shipment rules to be revised by I.C.C. Oil Paint & Drug Rep 142:7+ S 28 '42

ICC adds to explosives transportation rules. Chem Ind 51:380+ S '42

Regulations for the transportation of explosives and other dangerous articles; revised. R. W. Lahey. Chem Ind 49:818 D '41

Transporting explosives; the Auto-railer. il Manuf Rec 111:39 Mr '42

Truck operators now face real insurance situation. Nat Underw 46:19+ My 21 '42

EXPORT advertising. See Advertising, Foreign

EXPORT associations

New foreign-trade groups formed under export trade act (Webb-Pomerene law). For Comm W 5:17 N 29 '41

EXPORT-import bank of Washington

Export-import bank provides credit for inter-American trade. For Comm W 6:36 Ja 31 '42

Export-import bank reports. il For Comm W 6:3+ Ja 31 '42

Financing U.S. exports under war conditions. W. L. Pierson. For Comm W 9:13+ O 17 '42

Latin America and the Export-import bank. W. L. Pierson. For Comm W 5:7+ D 6 '41; Excerpt. Comm & Fin Chr 154:1333 D 4 '41

EXPORT trade

Basis for peace and friendly relations between countries is profitable commercial interchange. Weekly Underw 147:743+ S 26 '42

Directory of export organizations. Oil & Gas J 40:162, 164, 167 D 25 '41

Export freight permit plan adopted by roads. Comm & Fin Chr 155:331 Ja 22 '42

Export risk insurance; a survey of existing facilities. Elec R (Lond) 130:610 My 8 '42

Foreign trade opportunities. Published in Foreign commerce weekly

Importance of export for post-war reconstruction; need of research and skilled workers. A. P. M. Fleming. Engineering 154:187-8 S 4 '42; Abstracts. Elec R (Lond) 131:295-6 S 4 '42; Electrician 129:247-9 S 4 '42

Importance of exports to Latin American economies; studies by country. W. LaVarre. il For Comm W 7:3-7+ Ap 11; 3-5+ Ap 18 '42

International trade in raw materials. J. G. Smith. Engineer 174:180 Ag 28 '42

New foreign-trade groups formed under export trade act (Webb-Pomerene law). For Comm W 5:17 N 29 '41

New revised foreign trade definitions. L. Kerr. Bankers M 144:12-18 Ja '42

Preparing shipments to Mexico; documentation, and consular and customs requirements. R. M. Sams. For Comm W 9:11-13, 36-7 N 7 '42

What about foreign trade? W. W. Rhodes; W. H. Carrier. Refrig Eng 44:159-62 S '42

See also

Balance of payments
Foreign exchange
Packing for shipment
Tariff

Finance

Financing U.S. exports under war conditions. W. L. Pierson. For Comm W 9:13+ O 17 '42

Latin America and the Export-import bank. W. L. Pierson. For Comm W 5:7+ D 6 '41; Excerpt. Comm & Fin Chr 154:1333 D 4 '41

See also

Export-import bank
of Washington

Regulation

Aid for exporters; seven-point memorandum issued by OPA and BEW helps to clarify position of traders. Business Week p36-8 Ap 11 '42

Americas map system on scarce materials; controlling distribution of scarce commodities imported from this country. Oil Paint & Drug Rep 141:3 Mr 9 '42

Current controls bulletin no. 28; changes in general licenses, effective June 20 or July 6, 1942; tabulation. For Comm W 7:40-1 Je 27 '42

EXPORT trade—Regulation—*Continued*

Distribution of petroleum equipment to foreign areas. W. A. Sawdon. il Pet Eng 14:98, 100 O '42

Export billing rule defined by OPA. Oil Paint & Drug Rep 142:5 N 2 '42

Export control lists and rules (cont). Oil Paint & Drug Rep 140:5+ D 1; 4+, 5 D 15; 4 D 22 '41; 141:3+ F 9; 3+ Mr 2; 3+ Mr 9; 5+ Mr 16; 3+ Ap 13 '42

Export control today. H. Lazo. For Comm W 9:8-9+ N 7 '42

Export critical materials listed. Oil Paint & Drug Rep 141:7+ My 18 '42

Export license grouping plan issued. Oil Paint & Drug Rep 142:5+ O 26 '42

Export license rules revised on less than $25 shipments. Oil Paint & Drug Rep 142:3 Jl 6 '42

Export license setup changed Jan. 19. Oil Paint & Drug Rep 140:4+ D 29 '41

Export license voided by six-month lapse. Oil Paint & Drug Rep 141:5 Ap 6 '42

Export licenses for drums. Chem Ind 51:80 Jl '42

Exports require permits for U.S. port space. Oil Paint & Drug Rep 141:3+ Je 1 '42

Fats, oils general licenses are cancelled. Oil Paint & Drug Rep 142:7 O 12 '42

Greater discretion permitted respecting farm-equipment exports. For Comm W 7:29 Je 6 '42

Interpretations of maximum export price regulation. For Comm W 7:39-43 Je 6 '42

Latin American shipping priorities system formed. Oil Paint & Drug Rep 142:7 Jl 13 '42

New export price control. For Comm W 7:32-3 My 9 '42

ODT announces port traffic plan. Ry Age 112:1089+ My 30 '42; Same. Steel 110:42 Je 1 '42

OPA defines export policy. Oil Paint & Drug Rep 142:5+ O 26 '42; Same. For Comm W 9:17 N 7 '42

OPA establishes price ceiling for export sales. Oil Paint & Drug Rep 141:3+ My 4 '42

OPA forms export price policy. Oil Paint & Drug Rep 141:3+ Ap 13 '42; Excerpt. For Comm W 7:25 Ap 11 '42

Rationed exports. Business Week p68 O 17 '42

Red tape cut in regulations on exports of petroleum equipment to Latin-American countries. H. D. Ralph. Oil & Gas J 40:75+ D 25 '41

Shipping priorities adopted on goods for Latin America. Oil Paint & Drug Rep 141:3+ My 11 '42

Shipping priorities to aid Latin-American trade. Comm & Fin Chr 155:1861 My 14 '42

Smoking out enemy business abroad. E. E. Schnellbacher. For Comm W 7:5+ Je 6 '42

Technical data export ban bill is passed. Oil Paint & Drug Rep 141:5 Je 29 '42

Technical data under export control. W. E. Elliott. Chem & Met Eng 48:102-3 N '41

U.S. export control act announcements. Published in Foreign commerce weekly

Statistics

Foreign trade in chemicals, nine months of 1941. Chem & Met Eng 49:107 F '42

International trade and finance, 1941. Survey of Cur Business 22:47-51 F '42

United States exports of leading commodities 1939-40; chart. For Comm W 7:21 Ap 18 '42

U.S. foreign trade during second war year; figures by geographic areas and economic classes, 12 months ended Aug. 1939, 1940 and 1941. A. Maffry. il For Comm W 5:4-5+ N 22 '41

Value of exports of United States merchandise by selected commodity groups; graphs. For Comm W 7:23 Ap 25 '42

Taxation

Manufacturers' excise taxes under the Revenue act of 1941. H. P. Crawford. For Comm W 5:4-5+ D 27 '41

Taxation of exports; exemptions and exceptions. H. P. Crawford. For Comm W 6:4-5+ F 7 '42

EXPOSURE meter. See Photography—Exposure

EXPRESS companies

See also

Railway express agency

EXPRESS highways. See Roads, Automobile

EXPRESS service

Railway and air express, parcel post. C. E. Johnston. 63p, 54p, 35p $2.60 International textbook co, Scranton, Pa. '41

See also

Air express service

Railway express agency

EXPROPRIATION. See Eminent domain

EXTERRITORIALITY

See also

China—Exterritoriality

EXTINCTION angle. See Crystallography

EXTRACTION apparatus

Apparatus for extraction of lipoids from wet tissues. F. E. Holmes. bibliog diags Ind & Eng Chem Anal ed 13:918-22 D 15 '41

Apparatus for the extraction of easily-emulsified liquids with immiscible solvents. P. F. Holt and H. J. Callow. diags Soc Chem Ind J 61:84 My '42

Continuous liquid extractor for large volumes of solution. R. Hossfeld. diag Ind & Eng Chem Anal ed 14:118 F 15 '42

Countercurrent liquid-liquid extraction in a wetted-wall tower. R. E. Treybal and L. T. Work. bibliog diags Am Inst Chem Eng Trans 38:203-35 F '42

Experimental study of individual transfer resistances in countercurrent liquid-liquid extraction. A. P. Colburn and D. G. Welsh. il Am Inst Chem Eng Trans 38:179-201; Discussion. 201-2 F '42

Improved Soxhlet extractor. M. H. Neustadt. bibliog diag Ind & Eng Chem Anal ed 14:431 My 15 '42

Limiting flow in liquid-liquid extraction columns; naphtha-water and methyl isobutyl ketone water systems. F. H. Blanding and J. C. Elgin. bibliog diags Am Inst Chem Eng Trans 38:305-35; Discussion. 335-8 Ap '42

Liquid-liquid extraction in a perforated plate tower; effect of plate spacing on tower performance. R. E. Treybal and F. E. Dumoulin. bibliog diags Ind & Eng Chem 34:709-13 Je '42

Liquid-liquid extraction in wetted-wall and packed columns. E. W. Comings and S. W. Briggs. bibliog diags Am Inst Chem Eng Trans 38:143-77 F '42

Design

Countercurrent leaching; graphical determination of required number of units. R. T. Armstrong and K. Kammermeyer. bibliog il Ind & Eng Chem 34:1228-31 O '42

Design and applications of liquid-liquid extraction. J. C. Elgin. bibliog diags Chem & Met Eng 49:110-16 My '42

Nomographs for mean driving forces in diffusional problems. E. G. Scheibel and D. F. Othmer. il Ind & Eng Chem 34:1200-8 O '42

EXTRACTION processes

Design and applications of liquid-liquid extraction. J. C. Elgin. bibliog diags Chem & Met Eng 49:110-16 My '42

Determination of grease in sewage, sludge, and industrial wastes. R. Pomeroy and C. M. Wakeman. bibliog Ind & Eng Chem Anal ed 13:795-801 N 15 '41

Extraction of ascorbic acid from plant tissues. W. B. Davis. Ind & Eng Chem 34:217-18 F '42

Extraction of fatty acids from rosin acid; fatty acid mixtures by means of liquid propane. A. W. Hixson and A. N. Hixson. bibliog il diags Am Inst Chem Eng Trans 37:927-54; Discussion. 954-7 D '41

EXTRACTION processes—*Continued*

Extraction of metallic constituents from oils. E. P. Rittershausen and R. J. DeGray. Ind & Eng Chem Anal ed 14:806-7 O 15 '42

Extraction of metals from aqueous solutions with dithizone lead. L. P. Biefeld and T. M. Patrick. bibliog Ind & Eng Chem Anal ed 14:275-8 Mr 15 '42

Extraction of oil from a porous solid. D. F. Boucher, J. C. Brier and J. O. Osburn. bibliog diags Am Inst Chem Eng Trans 38:967-92 O '42; Abstracts. Chem & Eng N 20:663 My 25 '42; Chem & Met Eng 49:150 Je '42; Discussion. Am Inst Chem Eng Trans 38:992-3 O '42

Line correlation. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:693-6 Je '42

Liquid-liquid extraction data; toluene and acetaldehyde systems. D. F. Othmer and P. E. Tobias. Ind & Eng Chem 34:690-2 Je '42

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38:891-930 O '42

Liquid-liquid extraction in a perforated plate tower; effect of plate spacing on tower performance. R. E. Treybal and F. E. Dumoulin. bibliog diags Ind & Eng Chem 34:709-13 Je '42

Mixed-solvent extraction. A. V. Brancker, T G. Hunter and A. W. Nash. bibliog Inst Pet J 28:15-26 Ja '42

Partial pressures of ternary liquid systems and the prediction of tie lines. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:696-700 Je '42

Recovery of butanol in butanol pulping; effected quantitatively by azeotropic distillation and by extraction with isopropyl ether. A. J. Bailey. bibliog diag Ind & Eng Chem 34:483-5 Ap '42

Recovery of fats, waxes, resins, and turpentine from wood. M. W. Bray. bibliog Paper Tr J 115:41-2 S 3 '42

Recovery of oil from whole cotton. E. L. Powell and F. K. Cameron. bibliog Ind & Eng Chem 34:358-9 Mr '42

Solvent extraction of tung oil. W. G. Rose, A. F. Freeman and R. S. McKinney. diags Ind & Eng Chem 34:612-14 My '42

See also

Solvents

Tables, calculations, etc.

Countercurrent leaching; graphical determination of required number of units. R. T. Armstrong and K. Kammermeyer. bibliog il Ind & Eng Chem 34:1228-31 O '42

Countercurrent liquid-liquid extraction in a wetted-wall tower. R. E. Treybal and L. T. Work. bibliog diags Am Inst Chem Eng Trans 38:203-35 F '42

Experimental study of individual transfer resistances in countercurrent liquid-liquid extraction. A. P. Colburn and D. G. Welsh. il Am Inst Chem Eng Trans 38:179-201; Discussion. 201-2 F '42

Extraction nomograph for solute-free solvents. D. S. Davis. Ind & Eng Chem 34:1014 Ag '42

General method for calculating diffusional operations such as extraction, distillation and gas absorption. E. G. Scheibel and D. F. Othmer. bibliog Am Inst Chem Eng Trans 38:339-64 Ap '42

Leaching calculations; note on the graphical method. G. F. Kinney. Ind & Eng Chem 34:1102-4 S '42

Liquid-liquid extraction in wetted-wall and packed columns. E. W. Comings and S. W. Briggs. bibliog diags Am Inst Chem Eng Trans 38:143-77 F '42

Mixed solvent extraction; batch-extraction stoichiometric computations. T. G. Hunter. bibliog diags Ind & Eng Chem 34:963-70 Ag '42

Ternary systems for extraction calculations; with list of systems for which complete data on the solubility relationships are available. J. C. Smith. bibliog(53 references) Ind & Eng Chem 34:234-7 F '42

EXTRUDING machines

Plastic extruder, by National Erie corp. il Chem Ind 49:645 N '41

EXTRUSION process

Calculations for joggle dies. E. J. Rantsch. diags Aero Digest 40:136+ F '42

Extruded tubing in war production; specific uses. J. E. Pierce. il diag Mod Plastics 19:55-6+ Ag '42

Extruding vinylidene chloride. il diag Mod Plastics 19:33-6, 122 Ag '42

Extrusion of light alloys. R. Worsdale. Metal Prog 41:388 Mr '42

Forming extrusions by machine methods. C. Coe. il diags Aviation 41:108-11+ S '42

Forming properties of zinc-base extrusion alloys; abstract. A. Burkhardt. Metals & Alloys 15:496+ Mr '42

Impact-extrusion of aluminum. Metals & Alloys 16:126+ Jl '42

Machine for forming extruded metal sections to various shapes. il Mach 48:240 Jl '42

Plastics competition award to Extruded plastics, inc., Macklanburg-Duncan co., Superior plastic co., R. D. Werner co., inc. il Mod Plastics 19:164-6 N '41

Pressure forming; production of aluminum and magnesium parts by variation of extrusion method. Business Week p54 D 13 '41

Progressive sheet metal extruding. S. Baldwin. diags Am Mach 86:656-7 Je 25 '42

EYE

Effect of driving fatigue on the critical fusion frequency of the eye. R. H. Lee and E. C. Hammond. Ind Med 11:360-3 Jl '42

Eye manifestations of internal diseases. I. S. Tassman. 542p $8.50 C. V. Mosby co, St Louis '42

Eyes are most sensitive light recorders. S. Hecht. Sci Am 166:226 My '42

Field of industrial ophthalmology; efficient use of vision in industry; report by committee of American medical association. A. C. Snell, A. Culler and H. S. Kuhn. Advanced Management 7:91-4 Ap-Je '42

See also

Color sense
Cornea
Ophthalmology
Optics, Physiological
Sight

Accommodation and refraction

Night vision of vital interest to aviation; abstract. B. St J. Steadman. Sci Am 166:146 Mr '42

Syntonic principle; its relation to health and ocular problems. H. R. Spitler. 217p $10 College of syntonic optometry, Eaton, Ohio '41

Diseases and defects

Absorption, accumulation and excretion of ingested silica. J. L. Webb, R. M. Selle and C. H. Thienes. bibliog J Ind Hygiene 24:43-5 Mr '42

Cataract and certain other manifestations of trytophane deficiency in rats. A. A. Albanese and W. Buschke. bibliog Science 95:584-6 Je 5 '42

Have you heterophoria? eye exercises using vectographs can improve depth perception. E. W. Melson. il Sci Am 166:227-8 My '42

Motivation and visual factors; individual studies of college students. I. E. Bender and others. 369p $4 Dartmouth college publications, Hanover, N.H. '42

Quantitative relationship of riboflavin to cataract formation in rats. H. M. Baum, J. F. Michaelree and E. B. Brown. Science 95:24-5 Ja 2 '42

Examination

Ability to see low contrasts at night. M. Luckiesh and F. K. Moss. il J Aeronautical Sci 9:261-3 My '42

EYE—Examination—*Continued*

Consideration of the adequacy of biomicroscopy as a method of detecting mild cases of vitamin A deficiency. E. C. Callison. Science 95:250-1 Mr 6 '42

Inspectors need keen vision; tests of women engaged in inspection of rayon yarn. A. W. Ayers. il Textile World 92:96 O '42

Methods of detecting mild cases of vitamin A deficiency. H. D. Kruse. Science 95:623-4 Je 19 '42

Injuries

Eye injuries, 1941. Nat Safety N 45:11 Mr '42

Eye safety; injuries to eyes of industrial workers; abstract. J. R. Wittekind. Safety Eng 83:26 My '42

Eyes as war weapons. H. Guilbert. il Safety Eng 83:28 F '42

Ninety-eight per cent of injuries to eyes are preventable. L. Resnick. Concrete (mill sec) 49:281 D '41; Same abr. Blast F & Steel Pl 29:1246-7 D '41

Safety's in sight; review of Eye hazards in industry, by L. Resnick. Safety Eng 82:12, 18 N '41

Tetragonal martensite, or Don't lose your eye; danger in striking hardened steel with hammer. il Safety Eng 83:31 My '42

Treatment of face and eye burns with a sulfhydryl solution. A. E. Cruthirds. il Ind Med 11:109-12 Mr '42

War increases interest in eye injuries; abstract. O. Sitchevska. Nat Safety N 46:78 S '42

Muscles

Extra-ocular muscles; a clinical study of normal and abnormal ocular motility. L. C. Peter. 3d ed rev 368p $4.50 Lea & Febiger, Philadelphia '41

Protection

All-round education needed to reduce hazards to sight. L. Resnick. Concrete (mill sec) 50:129 F '42

American Optical aims to save sight of the soldiers of production. C. H. Gallaway. il Ind Marketing 27:18-19 Mr '42

Eye protection for arc welders; metallic films on lenses. J. A. Neuman. Iron Age 149:56 Ap 2 '42

Eyes right. J. A. Haller. il Safety Eng 83:9-10+ Je '42

Protection for welding operators. B. C. Tracey. il Iron Age 149:67-8 Mr 26 '42

Protection of eyes against light from incendiary bombs. Franklin Inst J 233:487-9 My '42

What effect do light rays from arc welding or flame cutting have on eyes? H. F. Ingersoll. Welding J 21:320-1 My '42

See also

Goggles

EYES, Artificial

Eyes have it. il Cer Ind 38:70, 72 Je '42

Plastic eyes. Business Week p50 N 15 '41

F

FABRICS, Textile. See Textile fabrics

FACSIMILE, Radio. See Radio facsimile

FACTICE

Use of factice in rubber. Can Chem & Process Ind 26:369 Je '42

FACTOR analysis

Factor analysis; a synthesis of factorial methods. K. J. Holzinger and H. H. Harman. 417p bibliog(p398-405) $5 Univ. of Chicago press '41; Review by H. Hotelling. Science 95:504-7 My 15 '42

Study in factor analysis: the reliability of bi-factors and their relation to other measures. F. Swineford and K. J. Holzinger. 88p pa $1 Univ. of Chicago press '42

FACTOR of safety

Safety factor of winding ropes in deep shafts. D. R. Bean. Engineer 174:119-20 Ag 7 '42

Saving reinforcing steel by rationalizing safety factors. A. J. Boase. Eng N 128:785-7 My 7 '42; Discussion. M. Hirschthal. 128:900-1 Je 4 '42

FACTORIES

British factories use glass despite blackouts. C. H. Crane. Eng N 128:451 Mr 19 '42

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:19-26 D '41; 22:14-23 My '42

Factory construction; new warspeed method of concrete roof and girder construction. il Arch Forum 77:89-92 O '42

Factory plant and equipment expenditures over a quarter century. L. J. Chawner. il Dun's R 50:11-15+ O '42

Factory that shortage built; Wright aeronautical corp. building containing no structural steel. Fortune 26:26+ Ag '42

Ideal blackout factory envisioned by construction expert. G. H. A. Parkman. il Heating-Piping 14:596 O '42

Industrial buildings; building types study; with time-saver standards. il diags plans Arch Rec 91:65-80 Ja '42

Industrial plant buildings; eighth annual special section. Factory Management 100:B37-B90+ Ap '42

Industrial plants; building types study; with time-saver standards. il Arch Rec 91:67-78 Je '42

Keeping buildings in condition; Graton & Knight company, Worcester, Mass. W. F. Robbins. il Factory Management 100:140-1+ Ag '42

Parks-Cramer in new home. il Textile World 92:90 Ja '42

Plant planning; an interview with William Lescaze, architect, by W. S. Ross. il Mod Packaging 15:82-5+ D '41

Production efficiency built into a factory; Owens-Illinois can co. il Eng N 128:300-1 F 19 '42

Single-story concrete factory. il diag Eng N 129:583-8 O 22 '42

Swedish underground factory. Engineer 173:307 Ap 10 '42

Tool parts plant; office building, manufacturing area, and boiler house. il Arch Rec 91:44-5 Mr '42

Trio of modern plants; J & J's decentralized industrial community. il diag plans Arch Forum 75:331-4+ N '41

Underground factories. il Engineer 173:211-12, 230-2 Mr 6-13 '42

War factories symbolize 1941 building. J. I. Ballard. il Eng N 128:97-8 Ja 15 '42

See also

Airplane factories
Automobile factories
Chemical plants
Clay products plants
Concrete products plants
Cotton mills
Factory management
Fertilizer factories
Food factories
Foundries
Furniture factories
Glass factories
Iron works
Machine shops
Metallurgical plants
Paper mills
Rayon mills
Rock products plants
Rolling mills
Rubber factories
Shoe factories
Steel works
Sugar factories
Textile mills
Tire factories
Water supply for factories
Woolen and worsted mills

Accounting

Accelerated depreciation. V. H. Stempf. N A C A Bul 23:965-79 Mr 15 '42

Accounting expansion in defense industries; abstract. D. E. Browne. Management R 30:417-18 N '41

Accounting for excess labor costs and overhead under conditions of increased production. N A C A Bul 22:1551-70 sec 3 Ag 15 '41; Abstract. Management R 31:59-61 F '42

Accounting for materials and related procedures; report of the systems and methods study group New York chapter, N.A.C.A. N A C A Bul 23:1657-81 Ag 15 '42

FACTORIES—Accounting—*Continued*

Accounting problems under priority regulations of production and sales. I. W. Keller. N A C A Bul 23:425-34 D 1 '41

Application of standard costs to an operating budget; Crown can company, Philadelphia. H. C. Heiser. N A C A Bul 24:121-36 O 1 '42

Budget gives profit picture in half a minute; Stanley manufacturing company, Dayton. R. J. Rahn. Factory Management 100:97-9 O '42

Carter products, incorporated; what can cost records do for management? J. H. Hill. Factory Management 100:96+ Je '42

Control of the operating cost of air compressors. F. Ryder. Blast F & Steel Pl 30:1018-22 S '42

Co-ordinating material with production needs. H. J. Myers. N A C A Bul 23:793-812 F 1 '42

Corporation and manufacturing accounting. H. A. Finney. 534p $4 Prentice-Hall '42

Cost accounting for war production. W. B. Lawrence. 350p $4.65; school ed $3.50 Prentice-Hall '42

Depreciation and maintenance of mechanical handling plant. S. H. Withey. Mech Handling 29:90-1, 109-10, 132-4, 153-4, 171-2 My-S '42

Depreciation of installations. S. H. Withey. Electrician 128:245-6 Mr 20 '42

Depreciation problems; relationship to competitive industry. E. L. Grant. bibliog Am Soc C E Proc 67:1618-30 N '41

Drafting and operating under government contracts. il Steel 110:76, 79-80+ Je 8; 92, 95+ Je 15 '42

Emergency plant facilities. J Account 74:173-5 Ag '42

Essentials of cost control. J. A. Willard. J Eng Educ 32:548-65 Mr '42

Establishing relative burden rates on a machine-hour basis; J. L. Clark mfg. co., Rockford, Ill. F. O. Kudert. N A C A Bul 23:435-46 D 1 '41

Industrial accounting. S. W. Specthrie. 243p $3.75; school ed $3.25 Prentice-Hall '42

National association of cost accountants year book, 1942; proceedings of the twenty-third International cost conference, Chicago, June 22-24, 1942. 213p $3 Nat. assn. of cost accountants, 385 Madison av, New York '42

Paper work in defense jobs; Packard's experience. R. G. French. il Am Business 11:20-2 D '41

Plant values and their effect on costs and inventory valuations; productive replacement value. N. H. Foley. N A C A Bul 24:57-64 S 15 '42

Production requirements plan; recent changes in priorities system, with particular attention to statistical and accounting data required by form PD-25A. G. N. Farrand. J Account 73:530-6 Je '42

War profits and conversion reserves for return to peace time operation. S. Frank. J Account 74:353-4 O '42

See also

Budget, Business
Cost accounting
Cotton mills—Accounting
Depreciation
Inventories
Labor cost—Accounting
Payrolls—Accounting
Rubber factories—Accounting

Air conditioning

Ace carton corporation builds windowless plant with year-round air conditioning system. H. B. Reinhardt, jr. il diag Heat & Ven 39:34-9 Jl '42

Advantages of industrial air conditioning; abstract. J. Partington, jr. Heat & Ven 39:69 Je '42

Air conditioning, for offense, assures uninterrupted production of war material; illustrations. Heating-Piping 14:226-7 Ap '42

Air conditioning of blackout plants. W. A. Grant. il Heating-Piping 14:509-14; Discussion. W. L. Fleisher. 514 Ag '42

Air-conditioning of industrial plants; turbo-supercharger plant, General electric co. Mach 48:157 Ja '42

Completely conditioned manufacturing building has fifty-one separate zones. J. T. Browne and R. C. Carlson. il Heating-Piping 14:467-70 Ag '42

Consider evaporative cooling for blackout plants. W. L. Fleisher. Heating-Piping 14:28-9 Ja '42

General electric co.; air conditioned blackout factory for manufacturing aircraft engine superchargers. il Heat & Ven 38:45-7 D '41

How operation and maintenance are organized at air conditioned plant. il Heating-Piping 14:15-18 Ja '42

Industrial ventilation. il Nat Safety N 45:91-2+ Mr '42

Man behind the man behind the man behind the gun—air conditioning engineer. F. O. Jordan. Heating-Piping 14:220-2 Ap '42

Raymond laboratories, inc.; dehumidifiers to reduce moisture in permanent wave pad manufacturing. M. Figen. il Heat & Ven 39:35-6 Mr '42

Three-zone air conditioning system serves shop, offices, and drafting room; war production plant. T. H. Mabley. il Heating-Piping 14:401-2 Jl '42

Voluntary cut of 35-50% in air conditioning is proposed by A.C. & R. industry committee. Heat & Ven 38:46-7, 72 N '41

War industries number; industrial air conditioning. il diags plans Heat & Ven 39:41-112 Ja '42

See also

Air conditioning, Industrial
Airplane factories—Air conditioning

Cleaning

Fur won't fly; cleanliness problem in factory preparing fur for manufacture of felt; Jonas and Naumburg corporation. H. Armand. il Safety Eng 84:12-13 O '42

Industrial plants; plant maintenance. il Arch Rec 91:71 Je '42

Right cleaning saves floors; cleaners for various types of factory floors. R. W. Mitchell. il Factory Management 100:105-6, 108 F '42

Cleanliness

Good housekeeping; case study in plant clean-up at the B. F. Goodrich company. il Factory Management 100:107-14 Je '42

Industrial housekeeping. il Nat Safety N 45:160+ Mr '42

Pay dirt; reclamation department, Caterpillar tractor co. il Nat Safety N 44:17+ D '41; Abstract. Management R 31:54-5 F '42

Plan for industrial good housekeeping; Monsanto co.'s method of promoting cleanliness. F. N. Williams. il Chem & Met Eng 49:96 Ag '42

Safety's clean-up. A. P. Schulze. il Safety Eng 83:29-30+ Ja '42

Conversion

Aircraft machine guns replace automotive accessories at Brown-Lipe-Chapin plant. J. Geschelin. il Automotive & Aviation Ind 87:18-21+ Jl 1 '42

All out from the neck up; converting railroad shops to war production. il Fortune 26:80-2+ Jl '42

American ingenuity speeds war production. il Steel 110:38-41 My 18 '42

Armstrong converts plants to aircraft parts production. il Aero Digest 40:170+ Je '42

Boiler and radiator industry surveys plants to speed conversion. Heating-Piping 14:477 Ag '42

Changing over to war production; Bigelow-Sanford carpet co., Thompsonville, Conn. E. I. Petersen. il Factory Management 100:101-2+ Ag '42

Conversion almost complete in automotive industry. J. Geschelin. il Automotive & Aviation Ind 87:52-5+ O 1 '42

Conversion, American industry's number one job. E. Whitmore. il Am Business 12:9-11, 44-5 Mr '42

Conversion for war; design's great opportunity! K. D. Moslander. il Machine Design 14:43-4 Ap '42

Conversion from peacetime to war production; illustrations. Mach 48:146-9 My '42

FACTORIES—Conversion—*Continued*

Conversion in jig-time follows sales approach to Uncle Sam; Roper corp., Rockford, Ill. S. H. Hobson. il Sales Management 51:58-9 Ag 15 '42; Same. Cer Ind 39:32-3 O '42

Conversion lighting; manual of priority procedure. diags Elec W 118:101-16 Jl 11 '42

Conversion or shut down? il Steel 110:30-3 Je 8 '42

Conversion will keep your plant operating. Food Ind 14:43+ N '42

Conversion without confusion. G. Hubbard. il Steel 110:82-3+ My 11 '42

Converted medium-size plants supply arms which will make up margin of victory. A. W. Jessup. Am Mach 86:412e Ap 30 '42

Converting a linoleum plant to produce shells, bombs, and aircraft parts; prime and subcontracts. Mach 48:113-16 My '42

Converting ceramic plants to war production. Cer Ind 38:50, 52 Je '42; Same. Brick & Clay Rec 100:14-15 Je '42

Converting for Uncle Sam; Allied plastics company gas-mask lenses. E. F. Lougee. il Mod Plastics 19:58-9+ Jl '42

Converting industry; turning a nation's production to war. 70p War production board, Division of information, Washington, D.C. '42

Converting the small plant; from church work to navy work; Thomas & company, Worcester, Mass. R. G. Dick. il Factory Management 100:103 Ag '42

Converting the small plant to war production. R. M. Garrison. Mech Eng 64:477-8 Je '42

Converts auto-body plant to production of wing sections and other aircraft parts by adapting double-acting crank presses; Murray corp. of America. H. Chase. il Steel 110:64-6+ Mr 23 '42

Designs speed conversion to war production work; Tinnerman products, inc. making joining and fastening devices redesigns product to fit needs of aircraft industry. H. P. White. il diags Steel 111:113-14+ N 9 '42

Do you fully realize that this is a total war; converting your production facilities to handle war work. il Steel 110:38-41 Ap 6 '42

Enameling plant converts to war production. A. F. Macconochie. il diags Steel 111:54-5, 74, 76+ Ag 24 '42

England concentrates food manufacturing. Food Ind 14:42+ O '42

58 varieties; Heinz co. adds plywood. Business Week p79 Jl 25 '42

Floor waxers to gun parts; plant conversion. il Steel 110:30-3 Mr 16 '42

From food to tanks that swim; Food machinery corp. il Fortune 26:24+ Ag '42

From games to gages, dies and bullet punches. il Steel 110:30-1 Je 1 '42

From linoleum to aircraft stampings; Armstrong cork co. converts to shells, shot, aircraft stampings, bomb racks, etc. il Iron Age 150:56-8 Jl 9 '42

From locomotives to tanks; American locomotive co. F. J. Oliver. il Iron Age 149:64-8 My 7 '42

From stoves and ranges to steel life boats; Globe American corporation. il Am Business 12:14-15 F '42

From stoves to lifeboats. A. Chester. il Factory Management 100:66-8 Mr '42

Furniture's war; Grand Rapids plants pool for war orders. Business Week p62 Je 13 '42

Girls in war work; Northam Warren nail polish plant making intricate parts used in airplane communications systems. il Mod Packaging 15:78, 81 Jl '42

Half cotton output must be converted to war goods. Comm & Fin Chr 155:1712 Ap 30 '42

Here are the reasons why you must convert your plant to war production. il Steel 110:38-41 Ap 20; 22-5 Ap 27; 38-41+ My 4 '42

How Cook Electric landed millions in orders from Uncle Sam; interview with W. C. Hasselhorn. il Sales Management 50:22-4 Je 15 '42

How subcontracting can be made to work; with examples of conversion. il Factory Management 100:58-60+ Mr '42

How to convert; cartoons. J. Haydock. Am Mach 86:382-3 Ap 30 '42

How we go get war work; Lyon metal products, inc. E. D. Power. il Factory Management 100:68-71+ My '42

Impact of war on advertising. Adv & Sell 35:17-24 Mr '42

Industrial conversion far from complete. Survey of Cur Business 22:3-6 Ag '42

Industry converts rapidly to making war materials; Nash-Kelvinator wartime aircraft industry. Refrig Eng 44:86 Ag '42

Instructing new supervisors in plants converted to war work. A. M. Cooper. Mach 49:160-1 S '42

Introduction to the problems of conversion; abstract. G. T. Trundle, jr. Mech Eng 64:569-70 Jl '42

Irvin works, converted for plates in 37 days, raises U.S. Steel record. il Steel 110:36-7 Je 15 '42

Launching a war baby; Por-os-way grinding wheel made by dental equipment manufacturer. R. N. D. Arndt. il Ind Marketing 27:20-1+ Ap '42

Made for peace, made for war; conversion job list. Business Week p24 F 28 '42

Maintaining, repairing, and converting industrial plants for war work. il diags Am Bld 64:52-3+ O '42

Maintenance and conservation of converting equipment. W. J. Goetsch. Paper Tr J 115:28-30 Jl 9 '42

Makers of printing plates list facilities for war production. Steel 110:97 Je 8 '42

Metallurgical engineering conversion to war production. H. R. Clauser and others. il diags Metals & Alloys 15:763-78, 979-87 My-Je '42

Motor cars to munitions. il diags map Am Mach 86:sup1-16, 549-612 Je 11 '42

Office equipments convert to war. A. B. Wells. il Mag of Wall St 70:78-80+ My 2 '42

Organizing the company for war expansion. T. R. Jones; E. D. Power; M. B. Gordon. 30p Am. management assn, 330 W. 42d st, New York '42

Plant conversion for war production; from frying-pans to aircraft parts, from thermostats to shell-boosters. il Manuf Rec 111:32-3 Ap '42

Ploughshares into swords; utility activities in expediting industrial conversion. Elec W 117:995-1002 Mr 21 '42

Revere helps customers switch from peace to war production; technical advisory service. il Sales Management 50:40-1 Ap 20 '42

Rubber companies, as converted. Sci Am 167:60 Ag '42

Rubber concerns converted for war. J. A. McWethy. Barron's 22:7 My 11 '42

Shell fuzes by the million; carburetor manufacturers has retooled multi-spindle automatics and fourteen-station indexing machines to make percussion fuzes. il diags Am Mach 86:775-94 Jl 23 '42

Some of the problems involved in converting the plating industry. C. B. F. Young. Steel 110:70, 72+ Je 8 '42

Standard tools speed conversion. D. M. Pattison. il Am Mach 86:1003-5 S 17 '42

Stop orders; edicts that force industry to convert follow no consistent pattern. Business Week p16-17 Ap 11 '42

Stove manufacturer builds lifeboats; Globe American corp. il Iron Age 149:66-7 Mr 12 '42

Stove plant turns out life boats on a production-line basis. il Cer Ind 39:35-6 Jl '42

Tell us what we can do. il Mod Packaging 15:46-7, 106+ My '42

Tool plant converted to aircraft parts manufacture. G. E. Stedman. il Steel 110:62-4, 66 Ap 27 '42

FACTORIES—Conversion—*Continued*

Training operators in a plant converted to war work; employes, ordinarily engaged in making linoleum, bottle caps, plastics, and gaskets trained to produce precision metal war products. il Mach 48:121-6 Je '42

War conversion problems of an enamel plant. W. T. Winand. Cer Ind 39:58 Ag '42

War plant conversion and financing. il Mag of Wall St 69:712-14; 70:34, 86, 138, 190, 242 Ap 4-Je 13 '42

WPB finance bureau established to aid conversion efforts. Steel 110:42-3 Ap 6 '42

War-production bottlenecks broken by brainwork. il Steel 110:38-41 Ap 13 '42

What enamelers are doing to stay in business. Cer Ind 38:31-2 Je; 34 Jl '42

When the small business goes after war contracts; American well and prospecting company, Corsicana, Tex. C. N. Tunnell. il Am Business 12:14-15+ Je '42

Within 60 days salesmen were all at work in factory on war jobs; Troy Laundry Machinery. il Ptr Ink 200:22+ Ag 21 '42

Your Uncle Sam is a busy man; converting plant facilities to war work. il Steel 110:14-15 Mr 30 '42

See also Automobile industry and trade—Munitions manufacture

Electric equipment

Breakers have got to break. W. A. Holland. il diags Factory Management 99:83-5 D '41; 100:119-20 Ja '42

Check wiring and transformer loadings to maintain production; industrial plant equipment. R. G. Hardy. il diags Elec W 117:2059-61 Je 13 '42

Do's and don't's in starter maintenance. W. W. McCullough. il Factory Management 100:113-15 Jl '42

Electrical accidents, 1941. H. W. Swann. Electrician 129:361-4 O 2 '42

Electrical plant records. S. H. Withey. Electrician 129:55-6 Jl 17 '42

Electricity in the engineering industry. H. H. Sennett. Inst E E J 89 pt 1:193-7 Ap '42

Factory earthing. F. E. Butcher. Electrician 128:398-400 Ap 24 '42

Factory-plant breakdowns. S. Lees. Elec R (Lond) 130:442-3 Ap 3 '42

Factory plant mishaps. S. Lees. Elec R (Lond) 130:751-2 Je 12 '42

Flexible supply of industrial energy; roof type substation. il Elec W 117:680 F 21 '42

Fundamentals of industrial distribution systems. D. L. Beeman and R. H. Kaufmann. il diags Gen Elec R 45:235-44 Ap '42; Same. Elec Eng 61:Trans 272-9 My '42; Abstracts. Iron Age 149:63 F 5 '42; Aero Digest 40:243-4 Mr '42; Elec West 88:41 Mr '42; Power 86:250-7 Mr '42; Power Pl Eng 46:72-5 Mr '42; Steel 110:72, 74+ Mr 23 '42

G. E. introduces new power distribution system; load-center system. il plans Chem & Eng N 20:486-7 Ap 10 '42

Handling materials. il plan Elec R (Lond) 130:423-7, 455-9, 492-5 Ap 3-17 '42

High-voltage distribution saves copper. il diags Factory Management 100:92, 94 Mr '42

How to conserve vital materials in industrial distribution systems. R. B. McKinley and L. D. Madsen. il diags Power Pl Eng 46:58-61 Ap '42

How to gain maximum facility, flexibility, and economy in industrial power distribution; use of unit substations. N. L. Hadley. il diag Gen Elec R 44:597-8 N '41

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:121-32 O '42

Industrial heating; production of roofing felt. il Elec R (Lond) 129:391-4 O 17 '41

Industrial network limiter developed. J. M. Wallace. il diag Elec W 118:1124 O 3 '42

Industrial plants; power distribution. il plans Arch Rec 91:69-70 Je '42

Large pig-food plant. il Elec R (Lond) 131:113 Jl 24 '42

Load-center distribution system for industrial plants and buildings. D. L. Beeman and R. H. Kaufman. il diags Blast F & Steel Pl 30:769-74 Jl '42; Excerpts. Chem & Met Eng 49:97-8 Mr '42

Load-center distribution system for industrial plants, shipyards and naval projects. il diag Marine Eng 47:91-4 F '42; Same cond. Automotive & Aviation Ind 86:16-17+ Mr 1 '42

Load control cuts peaks. J. V. Alfriend, jr. Power Pl Eng 46:88-9 Ag '42

Make one pound of copper do the work of two. L. A. Umansky. Gen Elec R 45:555-6 O '42; Abstract. Blast F & Steel Pl 30:1043-4 S '42; Same. Steel 111:104 O 12 '42; Same. Power 86:920c+ D '42

New equipment; motors and controllers. il Iron Age 149:62-7 F 12; 150:55-8 O 8 '42

New equipment; welding. il diag Iron Age 150:64-8 N 5 '42

Non-metallic cable supplies machines. diag Elec W 117:334 Ja 24 '42

Novel conversion from brewery to film apparatus factory. il Elec R (Lond) 130:163-5 F 6 '42

Operating electrical equipment above rated capacity. Locomotive 44:67-8 Jl '42

Pick wire that fits the job. G. M. Van Lear. il Factory Management 100:118-20 S '42

Power design in defense plants. H. Winte. diags Elec W 116:2039-41; 117:59-62, 478-81, 640-2, 805-8 D 27 '41-Ja 10, F 7-Mr 7 '42

Power factor and power factor economy; with cost data. R. E. Marbury. il Power Pl Eng 46:60-3 F '42

Power-factor improvement; fastest and most economical way to increase electrical capacity. M. I. Alimansky and R. E. Insley. il Steel 110:62+ Ja 26 '42; Same. India Rubber W 106:141+ My '42

Power supply for supercharger plant; McCulloch engineering corporation. il Elec W 117:320+ Ja 24 '42

Preventing and correcting voltage dips. C. W. Drake. il Factory Management 100:115-17 O '42

Progress in engineering knowledge during 1941; industrial power supply. P. L. Alger. bibliog Gen Elec R 45:109-10 F '42

Qualified maintenance men; abstract. H. W. Swann. Elec R (Lond) 129:473 O 31 '41

Review of installation methods; abstract. L. C. Grant. Elec R (Lond) 130:337-8 Mr 13 '42; Discussion. 130:369-70 Mr 20 '42; Electrician 128:253-5 Mr 20 '42

Saving material in factory substation. il Elec W 116:2064 D 27 '41

Secondary-network systems serve high-production power loads. H. D. James. il diag Power 86:326-9 My '42

Seed preparation; electrical methods widely adopted; Edward Webb & sons. il Elec R (Lond) 131:103-6 Jl 24 '42

Storage battery emergency lighting and power plants. il diags Power Pl Eng 46:81-3+ My '42

Survey of the gas contamination problem in the engineering industry, with special reference to electrical machinery. J. W. Martin. Inst Mech Eng J & Proc 147:Proc 51-2 Ap '42; Same. Inst E E J 89 pt 1:173-4 Ap '42

Timers and time meters; importance in efficient utilization of plant machinery and for control of manufacturing processes. C. H. Ridgley and J. L. Theisen. il diags Gen Elec R 45:569-72 O '42

To keep little motors going when the big motor starts. W. K. Boice. il Factory Management 100:99-100 My; 118-20 Jl '42

Unit sub-stations. il Electrician 129:378-9 O 9 '42

Wartime installations; abstracts. W. R. Watson. Elec R (Lond) 130:527 Ap 24 '42; Electrician 128:386-7 Ap 24 '42; Discussion. Elec R (Lond) 130:594-6 My 8 '42; Electrician 128:427-8, 453-6, 562-3 My 1-8, Je 5 '42

Which power-distribution system? four industrial-plant systems described and compared. il diags Power 86:152-4 Mr '42

FACTORIES—Electric equipment—*Continued*

Works distribution. il Elec R (Lond) 130: 519-22 Ap 24 '42

See also

Electric driving
Electric motors
Electric tools, Portable
Electric wiring—Safety measures
Factories—Lighting
Paper mills—Electric equipment
Rolling mills—Electric equipment
Rubber factories—Electric equipment

Equipment

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:19-26 D '41; 22:14-23 My '42

Effort to preserve machinery intact for war use; order stopping scheduled sale at auction. For Comm W 6:19 Mr 14 '42

How to ease equipment bottlenecks. Chem & Met Eng 48:88-9 N '41

Industrial plant buildings; features for worker health and comfort. il Factory Management 100:B66-B69 Ap '42

Middleman in the war effort; wholesaler's ability to keep factories going overlooked by production authorities. M. M. Green. Barron's 22:13 S 7 '42

Mr Waite goes industrial; Waite firm, industrial plumbing specialists. il Dom Eng 160: 44-5+ O '42

New equipment; heat treating and processing controls. il Iron Age 149:65-8 Mr 5; 150: 53-7 O 29 '42

New equipment; material handling. il Iron Age 148:68-72 D 4 '41

New equipment; plant service apparatus. il diags Iron Age 149:63-6 My 14; 63-4 My 21; 150:63-6 S 10; 61-3 S 24 '42

New equipment; plant service equipment. il Iron Age 149:64-8 F 5; 66-8 F 19 '42

New equipment; power plant apparatus; il diag Iron Age 149:71-3 Je 11 '42

Stricter control over construction and the installation of machinery and equipment in plants. Roads & Bridges 80:66+ F '42

Trouble-shooting sound systems. H. Paro. Factory Management 100:136, 138, 140 S '42

29th buyers reference number; plant service equipment; parts and materials. il diags Am Mach 86:313-56 Ja 22 '42

WPB extends its authority over many types of industrial equipment. Steel 110:37 Je 1 '42

We got our old plant ready to carry a load for defense; American pulley co. A. C. Walker and W. A. Williams. il Factory Management 99:54-7+ D '41

See also

Chemical plants—Equipment
Conveying machinery
Machinery, Replacement of
Mechanical handling
Power plants

Expansion

Machine tool maker's dilemma; Warner & Swasey has boosted turret-lathe production 700 per cent; what happens to W. & S. while they are wearing out? il Fortune 26: 104-7+ O '42

Recent expansion of the aluminum industry. T. D. Jolly. Science 96:29-32 Jl 10 '42; Same. il Comp Air M 47:6787-9 Jl '42; Same cond. Metal Prog 42:72-6+ Jl '42

Fire protection

See Fire protection

Floors

Clean floors; removing dirt is a logical starting point for program of safety, sanitation. il Nat Safety N 46:66-7+ O '42

Factory flooring. il Nat Safety N 45:103-4+ Mr '42

Industrial trucks; effect of floor conditions on power consumption and tires. C. S. Schroeder. Mech Eng 64:588+ Ag '42; Abstract. Engineering 154:285 O 9 '42

Light-reflecting concrete for factory floors. M. A. Berns. il Civil Eng 12:556-8 O '42

Magnesium oxychloride sparkproof floors. M. Y. Seaton. il Chem Ind 51:74-7 Jl '42

Maintaining, repairing, and converting industrial plants for war work. il diags Am Bld 64:52-3+ O '42

Newest for floors, white cement. il Factory Management 100:129 N '42

Reinforced concrete creates second floor within old industrial building. il Concrete 50:2-3 Je '42

Right cleaning saves floors; cleaners for various types of factory floors. R. W. Mitchell. il Factory Management 100:105-6, 108 F '42

Safety takes the floor. S. X. Newman. il Safety Eng 84:13 Jl '42

Unique floor speeds erection; American electric fusion corp. il diag Factory Management 99:92 D '41

White cement floor successful light reflector. il Eng N 128:1037 Je 25 '42

White cement floors for better light; bomber assembly plants. il Eng N 128:398-400 Mr 12 '42

See also

Food factories—Floors

Heating and ventilation

Blackout ventilation for factories. diags Sheet Metal Worker 33:26 Ap '42

Change-over in iron; machine works makes changes in heating system. diags Dom Eng 159:55+ F '42

Design and performance of a direct-fired unit heater. R. M. Rush and H. A. Pietsch. il diags Heating-Piping 14:75-82 Ja '42

Electrical heating; modern installation in mechanical maintenance shop. il Electrician 128:585 Je 12 '42

Factory heating; localised units. il Automobile Eng 32:162 Ap '42

Factory ventilation. il Automobile Eng 32: 331-3 Ag '42

Fresh air for the paint shop. il Nat Safety N 46:38 Jl '42

Gas consumption of unit heaters. il Dom Eng 160:62+ Ag '42

Getting rid of air contaminants. G. C. Harrold. il Nat Safety N 44:20-1, 68-9 D '41

Heat removal from factories; Ilg power roof ventilators. il Sheet Metal Worker 33:36+ Ag '42

How to save fuel for heating; maintenance services data sheet. Factory Management 100:138, 140 O '42

How to ventilate department containing sewing machines and steam presses. diags plans Power 85:908-10, 930c+ D '41

In industry and homes; proper ventilation in blackouts presents new problems. il Dom Eng 159:51+ My '42

Increasing your heating business. E. L. Payne. Am Gas Assn Proc 1941:323-7

Industrial exhaust ventilation; reference section. F. F. Kravath. il diags Heat & Ven 39:36-58 Ap '42

Industrial plants; unit heating systems; with time-saver standards. il Arch Rec 91:68-9, 73-8 Je '42

Industrial tape corp. heats its new building with high temperature hot water district heating system. J. F. Kern, jr. il Heat & Ven 39:108-12 Ja '42

Lights on! air in! blackout! factory ventilation and cooling. L. Hungerford. il diags Dom Eng 159:50-1+ My '42

Location of unit heaters. il Dom Eng 159: 52-3+ Je; 160:54-5+ Jl '42

Location of unit heaters and calculation of sizes. il Dom Eng 160:50-1 S '42

Modern ventilation makes blackout plants possible. F. O. Jordan. il Heating-Piping 14:621-2 O '42

Modernized heating system for enlarged factory keeps the operating cost down. il Heating-Piping 14:100 F '42

New plant for fluorescent lamp production; Hygrade Sylvania uses concrete pipe for ducts. il Heating-Piping 14:162-3 Mr '42

Northern pump co. steam heating control system. J. E. Haines. il diag Heat & Ven 39:70-1 Ja '42

FACTORIES—Heating and ventilation—*Cont.*

Open doors and coal wastage. Engineer 174: 221 S 11 '42

Plants install ventilation for wartime blacking out. L. Hungerford. il Heating-Piping 14:117 F '42

Products in action; manufacturer of heating equipment installs various types in factory and office. il diags plans Dom Eng 159:42-5 F '42

Profits in air; how industrial plants promote processes and profits by scientific control of atmospheric conditions (cont). il Heat & Ven 38:36-47 D '41; 39:28-33 F; 30-7 Mr; 38-40 My; 28-30 Je; 34-41 Jl; 23-30 Ag; 39-42 O '42

Reinforced concrete pipe used for underfloor air ducts at new plant; fluorescent lamp plant of the Hygrade Sylvania corp. S. M. Brown. diag Heating-Piping 14:282+ My '42

Salvaging heat from quenching oil. il Iron Age 149:62 F 5 '42

Shut those doors; their effect upon fuel economy in factories. Electrician 129:264 S 11 '42

Unit heaters; sizing for industrial use. il Dom Eng 159:64-5+ My '42

Working environment. M. A. Snell. il Nat Safety N 45:12-13, 66, 68+ Ja '42

See also

Air conditioning
Air conditioning, Industrial
Airplane factories—Heating and ventilation
Exhaust systems
Factories—Air conditioning

Layout

For extra floor space try a mezzanine; General Electric adds room for offices, lockers, storage. il Factory Management 100:116-17 S '42

How we doubled the output of our inspectors; Hoover ball & bearing company, Ann Arbor. D. W. Saxton. il diags Factory Management 100:85-7 N '42

Saving drafting time with dizzy diagrammatics. H. E. Pilkington. diags Chem & Met Eng 49:88-90 O '42

See also

Airplane factories—Layout
Machine shops—Layout

Lighting

Adequate lighting in industrial plants. W. H. Kahler. il Mach 48:140-6 Ja '42

American recommended practice of industrial lighting. il diags Illum Eng 37:275-321 bibliog(p320-1) My '42

Bearing manufacturer demands 50 ft.-candles. il Elec W 116:1590+ N 15 '41

Choosing the right lamp for industrial lighting; with cost comparisons. H. S. Broadbent. Mach 48:148-51 F '42

Conversion lighting; manual of priority procedure. diags Elec W 118:101-16 Jl 11 '42

Cost analysis of fluorescent vs. incandescent lighting installations. B. F. Greenberg. charts Illum Eng 37:165-70 Mr '42

Daylight in factories; notes on costs, electrical comparison. Electrician 128:651-2 Je 26 '42

Daylight working conditions; fuel saving and increased production. Chem Age (Lond) 47: 209-10 Ag 29 '42

Daylighting featured in war manufacturing plant; Kollsman instrument division, Square D co. il Eng N 129:403 S 24 '42

Eyes have it; higher visibility in plants testing white concrete floors. il Business Week p66+ Je 13 '42

Factory lighting; example of mercury discharge and fluorescent installation. il Electrician 128:498-9 My 22 '42

Factory lighting; gas lighting installation. il Light & Lighting 35:56 My '42

Fluorescent lighting in an underground factory. Light & Lighting 35:34 Mr '42

Fluorescent lighting underground. Light & Lighting 35:81 Je '42

GE shows lighting industry how it can help to win the war. H. F. Barnes. il Sales Management 51:18-20 Jl 1 '42

Good lighting will help us win. il Factory Management 100:101-16 Mr '42

Graphical method of determining lighting costs. L. S. Ickis. Illum Eng 37:377-81 Je '42

How to find light intensity at any point. J. H. Dean. chart Elec W 117:2080 Je 13 '42

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:125-6 O '42

Industrial lighting; conference at Birmingham. Electrician 128:191-2 Mr 6 '42

Industrial plant blackout control; diagrams. Elec W 117:2244 Je 27 '42

Jeep plant fights fatigue; use of Verd-A-Ray lamps. F. Beekman. il Safety Eng 83:22, 24 Ap '42

Light-dimming equipment for A.R.P. signalling. il diag Engineering 153:406 My 22 '42

Light for protection. E. P. Coffey. Edison Elec Inst Bul 10:143-4 Ap '42

Lighting advances; abstracts. H. C. Weston. Elec R (Lond) 129:576 N 21 '41; Electrician 127:298 N 21 '41

Lighting and well-being; factory and workshop; psychological effect. Electrician 127: 266 N 7 '41

Lighting bottlenecks; inspection of one thousand plants. H. H. Green. Elec W 117:2221 Je 27 '42

Lighting for improved plant efficiency and safety. A. K. Gaetjens. bibliog il Paper Tr J 114:27-34 F 12 '42

Lighting for production. J. O. Kraehenbuehl. il Edison Elec Inst Bul 10:139-42 Ap '42

Lighting for the plant. il Nat Safety N 45: 113-14+ Mr '42

Lighting large factory areas with fluorescent lamps. G. J. Taylor. il diags Illum Eng 36: 1414-34 bibliog(p1434-6); Discussion. 1436-61 D '41

Lighting maintenance in war industry plants. A. K. Gaetjens. Illum Eng 37:403-10 Jl '42

Lighting of industrial plants; reference studies on design and planning; with time-saver standards. il diags Arch Rec 92:63-79 S '42

Maintenance hints for industrial lighting. il Power Pl Eng 46:89 Ag '42

Modern lighting in modern gage plant; Merz engineering company. R. M. Brown. il Elec W 116:1563-4+ N 15 '41

More light where it is needed. Pub Util 29: 766-8 Je 4 '42

Operating experience on pioneer windowless plant; Simonds saw & steel co. Eng N 128: 845 My 21 '42

Paint white for more light. J. A. Meacham. il Metal Finishing 40:58-61 Ja '42

Practical blackout lighting for factories. W. Harrison. Elec W 117:2054 Je 13 '42

Providing the right illumination; Brown & Sharpe manufacturing co., Providence. il Factory Management 100:144-5 Ag '42

Psychology of lighting. il Electrician 127:217-18 O 17 '41

Safe at work; better lighting reduces hazards; abstract. O. P. Cleaver. Sci Am 166: 63 F '42

Some technical and economic aspects of lighting for production. S. D. Lay. Light & Lighting 35:88, 90 Jl '42; Discussion. 35: 100+ Ag '42

Spatial lighting eliminates glare. il Iron Age 149:48 Ap 9 '42

Substitute materials in war-plant lighting. E. D. Tillson. il diags Elec Eng 61:458-60 S '42

War-time lighting; fluorescent and gas-filled lamp installation. il Electrician 127:336 D 12 '41

See also

Airplane factories—Lighting
Factories—Yards—Lighting
Machine shops—Lighting
Textile mills—Lighting

Location

Industry and town planning. R. Pumphrey. 36p bibliog(p36) 1s Faber & Faber, London '41

FACTORIES—Location—*Continued*

Look before you forge; scope of protection from suits furnished by zoning ordinances should be considered carefully before erecting plant. L. Childs. Am Mach 86:655 Je 25 '42

So you are going to move? over eighty-five factors involved in moving or selecting original plant sites. G. J. Thomas. J Account 73:235-50 Mr '42

Strategic factors in plant location. E. M. Hoover, jr. and G. E. McLaughlin. map Harvard Business R 20 no 2:133-40 [Ja] '42

Why Sears is pushing southern industrial development. E. Whitmore. il Am Business 12:12-14+ Ja '42

See also
Munition factories—
Location

Maintenance and repair

Budgeted maintenance prevents stoppage in this war plant; RCA manufacturing company, Camden, N.J. M. R. Cowgill. il Factory Management 100:130-3 N '42

Case stories in equipment conservation; production control clinic. A. Heckman and others. 39p Am. management assn, 330 W. 42d st, New York '42

Day-and-night maintenance; Thompson products, inc. L. Teare. il Factory Management 99:90-1 D '41

Emergency unit developed at Fisher Body plants. il Business Week p74 Jl 11 '42

Flexible maintenance keeps production moving; Gardner-Denver company. E. A. Rapp. il Factory Management 100:59-60 Ap '42

Gilmer tries its own power-saving medicine. P. Swain. il Power 86:659-62 S '42

Handy men; maintenance man's protection too often overlooked. A. W. Herdman. il Nat Safety N 46:24-5+ Jl '42

How to use maintenance as a tool for greater production. il Factory Management 100: 134-52+ Ag '42

Incentives cut wiring costs. C. H. Brechin and P. M. Matthews. il Factory Management 100:118-19 My '42

Industrial plant buildings; what and how in upkeep. P. M. Moore. il Factory Management 100:B54-B55+ Ap '42

Maintaining buildings under corrosive conditions; Monsanto chemical company. L. Wells. il Factory Management 100:89-90 Mr '42

Maintenance keeps 'em coming; American car and foundry company. R. P. McBride. il Factory Management 100:111-13 Ja '42

Maintenance 'round the clock; abstract. F. Collins. Management R 31:168-9 My '42

Organized maintenance keeps machinery of this plant running. A. Heckman. il Concrete (mill sec) 50:216-17 Ag '42; Abstract. Heating-Piping 14:476 Ag '42

Piping inspection demanded under defense loads. il diags Power Pl Eng 45:69-71 N; 65-7 D '41

Practical and efficient program for training maintenance men; R. G. LeTourneau inc. W. J. Brooking. il Steel 110:72-3, 94+ My 4 '42

Ready-to-go maintenance; Studebaker corporation, South Bend, Ind. V. C. Uldin. il Factory Management 100:118-20 O '42

Scheduled lubrication saves oil, machinery, and time; American maize-products company. J. L. Looney. il Factory Management 100:115-17 My '42

Scheduling maintenance for three-shift operation. Factory Management 100:133 O '42

Training for maintenance. R. C. Oberdahn. il diags plan Factory Management 100:81-8 Mr '42

Moving

See Moving

Painting

Color-conditioning in modern industry. F. Birren. il Dun's R 50:13-15+ Jl '42; Abstract. Management R 31:261-2 Ag '42

Color for production, an analysis of the part of paint and other pigments in providing a better seeing environment in industrial buildings, by Faber Birren. il Arch Forum 77:85-8 Jl '42

Color of reflecting surfaces; walls, floors, ceilings. il Arch Rec 92:66 S '42

Paint and light. il Factory Management 100: 108-10 Mr '42

Paint white for more light. J. A. Meacham. il Metal Finishing 40:58-61 Ja '42

Scientific painting for more light and safety. Eng N 129:sup180+ O 22 '42

Protection

Adequate lighting for plant protection. L. M. Applegate. diags plans Elec West 88:41-3 Ja '42

A.R.P. for the factory. D. V. Baker. Steel 111:128+ O 5 '42

Anti-sabotage precautions a must. Am Business 12:18 Mr '42

Bomb damage to industrial plants. C. H. S. Tupholme. Chem & Eng N 20:896-8 Jl 25 '42

Building protection; factories. il diags Arch Forum 76:42 Ja '42

Civilian defense and plant protection. C. H. Woodward. il Nat Safety N 45:12-13+ F '42

Common sense first; plant protection inspection service of the War department. C. G. Richmond. il Safety Eng 84:16-18 Jl '42

Concrete masonry vs. sabotage; firearms test. il Concrete 50:14+ Ap '42

Counsel for the defense. J. B. Dunne. il Safety Eng 83:14-16 Ja '42

Defending plants; air raid and sabotage precautions. il Business Week p17+ D 20 '41

Defense of manufacturing plants. D. L. Fiske. Refrig Eng 43:15-16 Ja '42

Design of protective structures and the defence of industry. J. F. Baker. Inst Mech Eng J & Proc 147:Proc 50-1 Ap '42; Same. Inst E E J 89 pt 1:172-3 Ap '42

Developments in industrial camouflage. D. P. Barnes. il Civil Eng 12:453-6 Ag '42

Don't wait for bombs to hit your plant. il Factory Management 100:103-10 Ja '42

Emergency plant protection plan developed by Republic steel corp. Steel 110:33 Je 22 '42; Same. Nat Safety N 46:76-7 Jl '42

Emergency squads for plant protection. T. L. Hazlett. Elec W 117:1348 Ap 18 '42

Enemy within. A. C. Carruthers. il Safety Eng 83:6-8+ Ap '42

Expect sabotage! il Safety Eng 83:12-13+ Ja '42

Factory A.R.P. S. A. Mitchell. il Safety Eng 83:12-14 Mr '42

Factory construction: A.R.P. design; with time-saver standards. diags Arch Rec 91:79-80 Ja '42

FWA's ABC's; how the government expects to protect its buildings. Business Week p70+ O 3 '42

Fire, foe of war production. J. M. Landis. il Chem Ind 51:374-7 S '42

Food plants prepare for air raids. T. R. Edwards, jr. il Food Ind 14:35-7 Mr '42

For the duration; Republic steel company plant protection plan. il Safety Eng 84:31-2 Ag '42

Foreman in war time. E. R. Granniss. Nat Safety N 46:10-11, 60+ Jl '42

Glo-pass system; passes painted with fluorescent lacquer prevents forgery. Engineer 174:17-18 Jl 3 '42

Home guards; problems of plant protection. V. G. Schaefer. Nat Safety N 46:27+ S '42

How and why of camouflage. H. Goff. il Aviation 41:104-5+ O '42; Same. Pet Eng 13:98, 100+ S; 14:33-4 O '42; Same. Steel 111:72-3+ N 2 '42

How to build sabotage and bomb protection. il Am Bld 64:61+ Je '42

How to control factory visitors. il Am Business 12:15+ Ja '42

How we train plant police and firemen; Carrier corporation. R. F. Petrasek. il Factory Management 100:103-8 Jl '42

In the path of the storm; much can be done to enable industrial buildings to weather the blow. E. B. Gerry. il Nat Safety N 45: 20-1+ F '42

FACTORIES—Protection—*Continued*

Industrial blackout. Arch Forum 76:sup44+ Ja '42

Industrial plant buildings; bombs and British buildings. C. H. Crane. il Factory Management 100:B61+ Ap '42

Industrial plant protection. il diags Arch Forum 77:49-59 Ag '42

Industry takes the offensive; auxiliary defense corps, River works of the General electric company. J. B. Dunne. il Nat Safety N 45:10-11+ F '42

Industry's part in civilian defense. S. J. Singer. il Nat Safety N 46:12-13, 60 Ag '42

John Doe, saboteur; carelessness, laxity, ignorance conspire to upset war efforts. E. R. Schwarz. Tech R 44:447-8+ Jl '42

Light for protection. E. P. Coffey. Edison Elec Inst Bul 10:143-4 Ap '42

Lighting, ventilation and safety in factories during blackout. J. Adler-Herzmark. Ind Med 11:76-8 F '42

New sentry system; acoustic fence. Mech Eng 64:489 Je '42

O.C.D. plans for industry. il Safety Eng 83: 24-5+ Ja '42

Organizing to protect industrial plants. il Foundry 70:92, 94+ Ja '42

Pattern for organization and training of personnel outlined; air raid protection for steel mills. Steel 111:59 S 21 '42

Photoelectric intrusion detection system; protection of industrial plants against sabotage. il Electronics 15:73-4 Mr '42

Photoelectrics for industrial safety; equipment using infra-red rays suited for protection of defense plants. R. E. Appel. il diags Radio N 27:36-7+ My '42

Picking the plant-protection force; abstract. E. L. McMillen. Management R 31:305-6 S '42

Plant demonstrates model industrial A.R.P. system; Westinghouse electric & mfg. co.'s East Pittsburgh works. il Steel 110:54-5+ Je 29 '42

Plant protection. il Am Mach 86:429-30 My 14 '42

Plant protection; a handbook for American industry, factories, mills, docks and shipyards. E. A. Schurman. 148p $2 Cornell maritime press, 350 W. 23d st, New York '42

Proneness to damage of plant through enemy action. H. Gutteridge. Inst Mech Eng J & Proc 147:Proc 99-104 Je '42; Same cond. Engineering 153:204-5, 227 Mr 13-20 '42; Same cond. Engineer 173:213-14 Mr 6 '42; Abstract. Am Water Works Assn J 34:1569-70 O '42; Discussion. Inst Mech Eng J & Proc 147:Proc 104-9 Je '42; Engineering 153: 214-15 Mr 13 '42

Protect your plant from bombs and sabotage. il Food Ind 14:37-40 F '42

Protecting plant, people and equipment; Bell aircraft corporation, Buffalo. V. Bell. il Factory Management 100:138-9 Ag '42

Protection of industrial plants and public buildings. Power 86:18-19 Ja '42

Protective concealment for industry. V. T. Boughton. il diags Eng N 129:156-65 Jl 30 '42

Protective lighting. H. E. Mahan. il Nat Safety N 45:21+ Ap '42; Same. Safety Eng 83:33-4 My '42

Ready for raids; Graton & Knight company; with organization chart. W. F. Robbins. il Factory Management 100:101-12 My '42

Robots guard plant fences; extending the hearing range of guards. Iron Age 149:68 Ap 9 '42

Sabotage fire prevention. J. F. Gillece. Power Pl Eng 46:62 Je '42

Sabotage prevention aided by electron tube equipment. Sci Am 167:29-30 Jl '42

Sure you know your visitors? J. R. Mudler. il Factory Management 100:78-9 F '42

Textile plant protection section. il Textile World 92:83-112 Jl '42

Textile war manual; how to guard against sabotage and air raids. bibliog il Textile World 92:86-9 F '42

War-time plant protection conference. il Safety Eng 83:27-30 My '42

War-time protection of industrial plants. bibliog diags plan Chem & Met Eng 49: 102-8 Ja '42

Wartime protection of industrial plants [reprinted from Handbook of industrial safety]. 32p Nat. conservation bur, New York '42

What camouflage can do. H. Goff. il Factory Management 100:94-5+ S '42

See also

Airplane factories—Protection

Chemical plants—Protection

Employees, Identification of

Factory fire brigades

Sabotage

Reconstruction

Rebuilding plants. Business Week p18 Ja 24 '42

Records

Carboloy's order and receiving system. Am Business 12:16 Ag '42

Controlling the flow of production materials, Boeing airplane company, Wichita division. W. B. Ash. il Factory Management 100: 119-21+ Ag '42

Coupons for cost and production control. E. P. Dolliver. Factory Management 100:100+ Jl '42

Electrical plant records. S. H. Withey. Electrician 129:55-6 Jl 17 '42

Falk substitution record. il Product Eng 13: 246 Ap '42

Here's the paperwork needed for a good suggestion plan. P. L. Schneider. il Factory Management 100:81-4 My '42

How to operate salvage departments; Westinghouse electric & mfg. co. R. Schmidt. flow sheet Iron Age 149:56-60 Mr 26 '42

Hudson finds a better tool control plan. R. G. French. il Am Business 12:18-19 Jl '42

Load charts show up production bottlenecks; Manitowoc ship building company. A. N. Dedricks. Factory Management 100:74-6+ Jl '42

Machine tools of management: well kept, modernized records. il Am Business 12:25 Ap '42

Planned time study standards; General electric company. H. C. Geppinger. il Iron Age 150:34-6 O 29 '42

Planning production details; Square D company, Milwaukee. W. S. Olin. Factory Management 100:123-4+ Ag '42

Pullman's one writing parts order plan. il Am Business 12:14-15 Ag '42

Records by camera. W. J. Brooking. il Factory Management 100:97-8+ Jl '42

Scheduling operations for uniform output; Thompson aircraft products co., Cleveland. J. G. Moore. Factory Management 100: 117-19+ Ag '42

Simplified production order system speeds work; Cleveland graphite bronze co. M. E. Richards. il Am Business 12:32-4+ Ja '42

Simplifying paperwork in production control; Steel co. of Canada, ltd., Hamilton, Ont. R. W. Hallam. il diags Factory Management 100:121-2+ Ag '42

See also

Credit departments—Records

Employment management—Records

Roofs

Airplane plant roof truss innovations; Glenn L. Martin co. plant. il diags Eng N 127: 729-33 N 20 '41

Safety measures

See Accidents, Industrial; Safety devices and measures and other headings beginning Safety

Visitors

See Visitors

Windows

Window design saves critical materials; Simmons machine tool corp. S. Koffsky. il Eng N 129:353 S 10 '42

Wood sash for industrial buildings conserves steel. il diags Steel 110:89-90 Je 22 '42

FACTORIES—*Continued*

Yards

Air-raid shelters for factory yards. il Eng N 129:430-1 S 24 '42

Good neighbors; care of factory yards. il Nat Safety N 45:19+ Ap '42

Lighting

Adequate lighting for plant protection. L. M. Applegate. diags plans Elec West 88:41-3 Ja '42

Maintenance of protective lighting. G. A. Eddy. il plan Power Pl Eng 46:73-6 N '42; Same. Blast F & Steel Pl 30:1251-4 N '42

Old pendant units serve war effort; used to floodlight plant property. E. H. Richter. il diag Elec W 118:1294+ O 17 '42

Protective lighting. H. E. Mahan. il Nat Safety N 45:21+ Ap '42; Same. Safety Eng 83:33-4 My '42

Protective lighting for American industry. D. H. Tuck. il diags plan Elec Eng 61: 80-3 F '42

Protective lighting of boundaries around defense areas. R. M. Swetland and J. E. Bock. il diags Gen Elec R 45:152-7 Mr '42

Protective lighting of industrial plants; General Electric luminaires. R. M. Swetland. il diags Blast F & Steel Pl 30:325-30 Mr '42

FACTORS

Bank factoring of accounts receivable. C. B. Wilber. Bankers M 144:471-6 Je '42

Keys to business cash; notes from the business letters of some early English factors. W. H. Hillyer. Barron's 21:9 N 24 '41

FACTORY accounting. See Factories—Accounting

FACTORY communication

Centralized sound systems aid war production. S. Harman and H. Blair. il Radio N 28:30-2 Jl '42

How to keep the loudspeaker system working. H. Paro. il Factory Management 100:64-6 Ap '42

Industrial plants; communication systems. Arch Rec 91:72 Je '42

Sound for defense plants. R. P. Turner. il diags Radio N 27:16-17+ Ap '42

Sound systems for war plants. S. Harmon. il plan Radio N 28:22-4+ S '42

Write by wire; use of TelAutograph. S. S. Dewson. il Steel 110:52-4+ Mr 30 '42

FACTORY costs

Dollar value of higher efficiencies. W. F. Schaphorst. chart Paper Ind 24:502 Ag '42

See also

Factories—Accounting
Labor cost
Power cost
Sales costs

FACTORY fire brigades

Efficient fire-fighting organization. il Pulp & Pa of Can 43:646-7 Jl '42

Employee organization for fire safety. 47p pa 25c Nat. fire protection assn, 60 Batterymarch st, Boston '42

Fire brigades in industry. Nat Safety N 45: 144 Mr '42

Fire meets its match; Endicott Johnson fire brigade. L. F. Maar. il Nat Safety N 45: 14-15+ Ap '42

Fire prevention program. J. A. Hartwick. Nat Underw 46:10 My 28 '42

How we train plant police and firemen; Carrier corporation. R. F. Petrasek. il Factory Management 100:103-8 Jl '42

Organization and training of industrial fire brigades. J. C. Klinck. 119p pa $1 S. C. Toof & co, Memphis, Tenn. '42

Organizing and training the industrial fire brigade. F. Shepperd. 20p Educational committee, International assn. of fire chiefs, Daniel B. Tierney, sec, Arlington, Mass.

Watching industry's ramparts. J. G. Trudinger. il Nat Safety N 44:10-11+ D '41

FACTORY guards

Guards for a war plant. A. A. Agostini. il Am Mach 86:1018-19 S 17 '42

How we train plant police and firemen; Carrier corporation. R. F. Petrasek. il Factory Management 100:103-8 Jl '42

FACTORY inspection

Conditions in factories; Chief Inspector's report for 1941. Elec R (Lond) 131:491 O 16 '42

Factory inspection in Great Britain. T. K. Djang. 255p bibliog(p237-47) $4 Norton '42

Occupational disease hazard; evaluation in the field. W. A. Cook. bibliog Ind Med 11: 193-7 Ap '42

FACTORY insurance associations

Closer working ties between F.I.A. and N.A.I.A.; abstracts. C. W. Pierce. Nat Underw 46:1+ O 29 '42; Weekly Underw 147:1005+ O 31 '42

Curtice Pierce named as new F.I.A. president. Nat Underw 46:1+ Jl 16 '42

Factory groups completing plan to operate nation-wide. Nat Underw 46:1+ Jl 30 '42

FIA widens its scope as aid in war program. Weekly Underw 146:1265+ Je 6 '42; Nat Underw 46:3 Je 4 '42

Merger of factory groups projected. Ins Field (Fire ed) 71:15 Je 11 '42

U.S. Steel places $1,000,000,000 line with stock carriers; alters self-insurance plan. East Underw 43:1+, 15 Mr 13 '42

FACTORY laws and legislation

Proposed New Jersey law calls for industrial hygiene department to supervise industrial ventilation where hazards exist. Heat & Ven 38:62 N '41

Uruguay

Safety and health regulations in spinning mills in Uruguay, 1942. R. G. Glover. Monthly Labor R 54:993-4 Ap '42

FACTORY management

Benefits of material standardization. F. G. Jenkins. bibliog Mech Eng 64:545-8+ Jl '42

Carter products, incorporated. J. H. Hill. Factory Management 99:78+ My; 79+ Jl; 66+ S; 77+ N '41; 100:83+ F; 96+ Je '42

Drafting and operating under government contracts. Steel 110:76, 79-80+ Je 8; 92, 95+ Je 15; 74-5 Je 22 '42

Economic control in industry. F. L. Meyenberg. Engineering 152:74-5, 143-4, 314, 474-5 Jl 25, Ag 22, O 17, D 12 '41

Elements of supervision. W. R. Spriegel and E. Schulz. 273p bibliog(p266-8) $2.25 Wiley '42

Employer's wartime responsibility. G. L. Hostetter. il Power Pl Eng 46:110 Ap '42

Engineers and management; abstract. G. F. Anderson. Elec R (Lond) 130:403 Mr 27 '42

Erie plan can help every industrial community to get in the scrap. il Steel 110: 78-80, 82 Ap 13 '42

Everything's under control; Cutler-Hammer's output of electrical equipment is up 500 per cent. il Fortune 26:96-8+ Ag '42

Expediters are the cure for production headaches; Firestone beats production promises. il Factory Management 100:81-2+ O '42

Fewer clerks make up more payroll in less time. D. M. Olson. il Factory Management 100:87-8+ Jl '42

Foremanship development in Great Britain. F. J. B. Morton. Engineering 154:163-4, 182-3, 202-4, 223-4, 243, 264-5, 284 Ag 28-O 9 '42

Gantt chart; a working tool of management. W. Clark. 2d ed 158p $3 Pitman '42

G.E. does it; it has shouldered a unique martial burden without altering its stride. il Fortune 25:64-9+ Mr '42

Get ready for allocations. W. J. Casey. Factory Management 100:72+ Ja '42

How operation and maintenance are organized at air conditioned plant. il Heating-Piping 14:15-18 Ja '42

How to ease equipment bottlenecks. Chem & Met Eng 48:88-9 N '41

How to increase capacity of your production line with present equipment and operators. H. V. Oberg. Steel 109:56-7+ N 17 '41

How to operate a porcelain enamel plant at peak production. Steel 110:108+ My 18; 86+ Je 1 '42

FACTORY management—*Continued*

How to operate salvage departments; Westinghouse electric & mfg. co. R. Schmidt. flow sheet Iron Age 149:56-60 Mr 26 '42

How to operate seven days per week. E. Caldwell. Iron Age 148:47-51 D 25 '41

How to organize and carry out a factory scrap compaign. il Marine Eng 47:262-5 O '42; Same. Heating-Piping 14:607-8 O '42

Hudson finds a better tool control plan. R. G. French. il Am Business 12:18-19 Jl '42

Incentives as applied to service departments. Mech Handling 29:38-9 F '42

Industrial management. A. G. Anderson, M. J. Mandeville and J. M. Anderson. 612p $4.50 Ronald press '42

Industrial supervision. L. A. Froman and S. B. Mason. 341p $2.50 Foundation press, 222 W. Adams st, Chicago '42

Industry's tools for greater production; 50 case studies on how to use them. il Factory Management 100:65-152+ Ag '42

Influence of the unit of supervision and the span of executive control on the economy of line organization structure. R. C. Davis. 25p pa 50c Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '41

Inventory control in and after the war emergency period. J. A. Black. il Dun's R 50: 9-12 S '42

Load charts show up production bottlenecks; Manitowoc ship building company. A. N. Dedricks. Factory Management 100:74-6+ Jl '42

Lockheed expediter system; group of especially trained men used in new production technique. H. C. Christen. il Aviation 41: 122, 124+ Jl '42

Machine tools of management; well kept, modernized records. il Am Business 12:25 Ap '42

Management and economic considerations of salvage programs. R. Schmidt. Mech Eng 64:460-2 Je '42

Management, labor and technological change. J. W. Riegel. 187p $2.50 Univ. of Michigan press, Ann Arbor '42

Management methods program for the entire plant. D. M. Heider. charts Advanced Management 7:10-14 Ja-Mr '42

Meet Mr Budget; simple manual points out that each foreman should plan his own budget. D. Purves. Factory Management 100:97+ Ja '42

Panning pay dirt from your factory floor; reclamation department of Caterpillar tractor co. il Steel 110:66-7, 70+ Ja 19 '42

Planned time study standards; General electric company. H. C. Geppinger. il Iron Age 150:34-6 O 29 '42

Plant production control. C. A. Koepke. 509p $4 Wiley '41

Proceedings of the First southern California management conference, May 2, 1942; manning and managing our arsenal. 49p Industrial relations section, California inst. of technology, Pasadena '42

Production control. L. L. Bethel and others. 276p $2.75 McGraw-Hill '42

Production engineering. E. Buckingham. 268p $2.50 Wiley '42

Program for control of waste; Johnson & Johnson's surgical dressings; abstract. R. C. Dowell. Management R 31:389-90 N '42

Salesman into expediter; Cadillac motor car salesman. Adv & Sell 35:102 N '42

Simplified production order system speeds work; Cleveland graphite bronze co. M. E. Richards. il Am Business 12:32-4+ Ja '42

Small business *can* survive war and be stronger than ever. W. L. Carter. il Ptr Ink 198:11-13 F 20 '42

Top-management organization and control. P. E. Holden, L. S. Fish and K. L. Smith. 239p $4 Stanford univ. press '41; Review, by W. P. Fiske. Mech Eng 64:522-4 Jl '42; Review. Ry Age 113:140-1 Jl 25 '42

We got our old plant ready to carry a load for defense; American pulley co. A. C. Walker and W. A. Williams. il Factory Management 99:54-7+ D '41

What can I do to speed war production? F. B. Heitkamp. Steel 110:76+ My 25 '42

Work routing, scheduling and dispatching in production. J. Younger and J. Geschelin. rev ed 160p $3.25 Ronald press '42

Works organisation. F. L. Meyenberg. Engineer 174:191-2 S 4 '42

Works organization and management. E. J. Larkin. 465p $12 Pitman '41

Workshop sense. W. A. J. Chapman. 58p 50c Longmans (Toronto) '41

Write by wire; use of TelAutograph. S. S. Dewson. il Steel 110:52-4+ Mr 30 '42

See also

Assembling methods
Bonus system
Budget, Business
Bulletin boards
Committees (in management)
Contracts, Government—Subcontracting
Conveying machinery
Cost accounting
Cotton mills—Management
Efficiency, Industrial
Employees
Employees' representation in management
Employment departments
Employment management
Employment systems
Executives
Factories—Accounting
Factories—Equipment
Factories—Maintenance and repair
Foremen
Foundry management
Handling of materials
Hours of labor—Shift schedules
Hygiene, Industrial
Industrial management
Inspection
Inventories
Job analysis
Machine shop management
Mechanical handling
Medical service, Industrial
Motion study
Munition factories—Management
Noise
Office management
Organization in industry
Packaging
Packing for shipment
Paper mills—Management
Production control
Purchasing
Quality of products
Routing systems
Safety devices and measures
Salvage (waste, etc.)
Schedules
Shipment of goods
Stores systems
Suggestion systems
Textile mills—Management
Time study
Visitors
Wage payment plans
Welfare work in industry

Bibliography

Production management; abstracts. Published in monthly numbers of Management review

Quality control

Airplane quality control; Curtiss-Wright airplane division; abstract. J. W. Dunn. Automotive Ind 85:20-1 N 15 '41

Application of statistical control to the quality of materials and manufactured products. C. G. Darwin; F. Gill. il diag Inst Mech Eng J & Proc 147:Proc 125-33 Je '42; Same cond. Inst E E J 89 pt 1:303-8 Jl '42; Abstracts. Elec R (Lond) 130:497-8 Ap 17 '42; Electrician 128:388-90 Ap 24 '42; Engineer 173:346-7, 374-6 Ap 24-My 1 '42; Discussion. Inst Mech Eng J & Proc 147:Proc 133-44 Je '42; Electrician 128:390-3 Ap 24 '42; Inst E E J 89 pt 1:308-11 Jl '42

Classification of the problems of statistical inference. W. E. Deming. diag Am Statis Assn J 37:173-85 Je '42

Graphic records for quality control in welding; Arconograph. H. Lawrence. il Steel 109:76, 79+ D 1 '41

Inspection systems; methods for controlling quality on large-scale production. Automobile Eng 32:31-2 Ja '42

Laboratory control for Ranger engines. C. B. F. Macauley. il Aviation 40:108-9, 190+ D '41

Model quality control charts. H. Rissik. Engineer 174:64-5, 86-9, 106-8 Jl 24-Ag 7 '42

New standard shows how to control quality during production; ASA published third American emergency standard. diag Ind Stand 13:109-10 My '42

Probability graph paper and its engineering applications. H. Rissik. Engineer 172:276-8, 296-8 O 24-31 '41

FACTORY management—Quality control—*Cont.*

Production with precision. G. Scherr. il Am Mach 86:389 Ap 30 '42

Quality control and the war; experience of United States army Ordnance department in applying quality-control production of munitions. L. Simon. Elec Eng 61:449-52 S '42

Quality control assures consistent welding of diversified metals; Westinghouse electric & mfg. co. F. C. Gandert. il Steel 110:95-6 Ap 27 '42

Quality control in bomb fuze manufacture. A. L. Atherton. il Steel 110:58-61 Ja 19 '42

Quality control in manufacture. H. Rissik. diag Electrician 128:276-80 Mr 27 '42

Quality control in the manufacture of permanent magnets cuts rejects 90 per cent. J. H. Goss. il diags Steel 111:92-4+ O 26 '42

Quality control of hollow steel blades. H. P. Reiber. il Aviation 41:68-71+ Mr '42

Quality-control procedures in ordnance inspection. G. D. Edwards. Mech Eng 64:673-5 S '42

Quality control with sampling inspection; welding contacts for telephone equipment. C. S. Barrett. Mech Eng 64:361-4 My '42

Sampling and probability. R. H. Parsons. Engineer 173:528-9 Je 26 '42

Sampling inspection; methods of applying statistical analysis for quality control. B. P. Dudding. Automobile Eng 32:109-13 Mr '42

Statistical basis of the quality control program. S. S. Wilks. J Eng Educ 32:328-34 D '41

Statistical control of repetition work. Engineering 153:332-3 Ap 24 '42

Statistical quality control; discussion at joint meeting of Institutions of civil, mechanical, and electrical engineers. Engineer 173:346-7, 374-6 Ap 24-My 1 '42

Teaching quality control theory to engineers. L. C. Young. J Eng Educ 32:667-72 Ap '42

Technique of quality control; from L. E. Simon's book An engineer's manual of statistical methods. Engineer 173:100-2 Ja 30 '42

Using double sampling inspection in a manufacturing plant. D. B. Keeling and L. E. Cisne. Bell System Tech J 21:37-50 Je '42

Vague specifications for surface quality hamper aircraft production. C. F. Nagel, jr. il Metal Prog 41:323-9+ Mr '42

See also

Food factories—Quality control

Inspection

FACTORY sanitation

Clean floors; removing dirt is a logical starting point for program of safety, sanitation. il Nat Safety N 46:66-7+ O '42

Glamorless twins; housekeeping and sanitation. H. G. Dyktor. il Nat Safety N 46:18-19+ S '42; Same cond. Safety Eng 84:35-9 S '42

Micro-cleanliness in the washroom. C. R. Whittington. il Nat Safety N 44:54+ D '41

Modern facilities for health and safety. il Safety Eng 84:68-71 O '42

Washrooms and lockers. il Nat Safety N 45:161+ Mr '42

See also

Drinking fountains

Dust

Factories—Cleaning

Factories—Painting

Factory inspection

Trade waste

FACTORY system

Rise of the factory system in England paced by growth of the steam engine. W. H. Hillyer. Barron's 21:9-10 D 1 '41

FACTORY transportation

Intra-plant transportation systems aid in solving war problems. F. A. Westbrook. il Textile World 92:74-6 Ag '42

Material handling at shell loading plants; Auto-Railer used both on roadways and rails. W F. Sherman. il Iron Age 149:62-6 Mr 26 '42

Material handling preparedness. C. H. Barker, jr. il Iron Age 149:32-5 Ja 22 '42

New equipment. il Iron Age 149:79-83 My 7 '42

Remote-control door operators speed handling between plants. il diag Steel 110:76, 78 Je 22 '42

Replanning of internal works transport. J. Earl. Mech Handling 29:25-6 F '42

Super-cycle saves time in war plants. il Marine Eng 47:200 Ag '42

Traffic within the plant; safety measures. il Nat Safety N 45:78+ Mr '42

See also

Conveying machinery

Electric trucks, Industrial

Mechanical handling

Monorail conveyors

Motor trucks, Industrial

Tractors, Industrial

Trucks

FACTORY visitors. See Visitors

FACTORY waste. See Trade waste

FACTORY yards. See Factories—Yards

FADE-OMETER

Action of accelerated fade tests on the color of woolen fabrics. J. J. Glenn. Am Dyestuff Rep 31:34-7 Ja 19 '42

Fundamental concepts in fade-ometer design and operation. E. H. Harvey. bibliog Am Dyestuff Rep 31:13-16 Ja 5 '41

FADING. See Dyes, Fastness of

FAGARA coco (Gill) Engl.

Studies on Argentine plants; identification and characterization of some alkaloids in fagara coco (Gill) Engl. V. Deulofeu, R. Labriola and J. De Langhe. Am Chem Soc J 64:2326-8 O '42

FAIR labor standards act. See Labor laws and legislation—United States

FAIR return. See Public utilities—Regulation

FAIRBANKS, Morse and company

Good earnings despite higher taxes. S. Devlin. Mag of Wall St 70:519 Ag 22 '42

News and views on investments; manufacturer of Diesel engines. H. Lawrence. Barron's 22:20 Mr 30 '42

Thumbnail stock appraisal. Mag of Wall St 69:202 N 29 '41

FAIRFIELD, Iowa

Water supply

Soil conservation helps to protect water supply; plan for preventing silting of reservoirs. A. Reichstein. map Pub Works 72:33-5 D '41

FAIRLEAD guide blocks

Fairlead guide blocks. il diags Mod Plastics 19:62-3+ Jl '42

FAIRS

Fair today; despite ODT request for cancellation. Business Week p26+ Jl 25 '42

ODT head insists on curb of county fairs. Comm & Fin Chr 156:110 Jl 9 '42

FALKNER, Roland Post, 1866-1940

Sketch. F. L. Hayford. Am Statis Assn J 36:543-5 D '41

FALLING bodies

Approximate mechanics of falling bodies. W. R. Crawford. Engineer 172:430-2 D 19 '41

Optimum time of delay for parachute opening. W. A. Wildhack. bibliog J Aeronautical Sci 9:293-301 Je '42

Vertical orientation of powdery mildew conidia during fall. C. E. Yarwood and W. E. Hazen. Science 96:316-17 O 2 '42

FALLS

Human trajectories. R. Oldenburger. il diags J Ap Phys 13:460-9 Jl '42

Keep in step with safety; avoid injuries from stairways. Safety Eng 83:37 Ap '42

Safety factor in floor waxes; a review of testing procedure developed by insurance companies for determination of slip hazards. diag Soap & San Chem 18:95-6+ Ap '42

See also

Safety belts

Scaffolding—Safety measures

FALVEY, Timothy J. 1868-

Honored by Massachusetts Bonding. por East Underw 42:32-3 D 5 '41

FAMILY

American family behavior. J. Bernard. 564p $3.50 Harper '42

Family. R. S. Cavan. 593p $3.50 Crowell '42

Family relationships. A. H. Arlitt. 277p $2.50 McGraw-Hill '42

See also

Budget, Household

Home economics

Home labor

Husband and wife

FAMILY allowances

Allowances for children. Economist 142:636-7 My 9 '42

Allowances for servicemen's dependents, 1942. Monthly Labor R 55:226-8 Ag '42

Checks for servicemen's dependents. il Banking 35:42 O '42

Child endowment in Australia. Science 94: 579 D 19 '41

Discussion of child endowment in Great Britain. A. W. Edson. Monthly Labor R 55:243-4 Ag '42

Extension of family allowances. Economist 141:468 O 18 '41

Family allowances. Economist 142:678 My 16 '42

Family allowances and marriage loans in Spain. Monthly Labor R 53:1291 N '41

Family allowances in Italy. Monthly Labor R 54:213-15 Ja '42

Financial protection for war families; compensation, benefits and civil relief plans for the armed forces and their dependents. Trusts & Estates 74:341-4 Ap '42

Increased allowances for dependents in British military forces. Monthly Labor R 54:388-9 F '42

New family-allowance system in Germany. Monthly Labor R 53:1289-90 N '41

Question of family allowances in Great Britain. Int Labour R 46:218-20 Ag '42

Risk bearers; discrepancy between remuneration for service in the armed forces and in war industry. Economist 141:499 O 25 '41

Sliding scales, to meet increase in cost of living. Economist 142:141 Ja 31 '42

War and merchant seamen; unemployment indemnities and compensation for loss of effects in the event of loss of the ship; detention and family allowances. Int Labour R 45:493-511 My '42

FAMILY budget. See Budget, Household

FAMILY group policies. See Insurance, Accident—Family group policies; Insurance, Life—Family group policies

FAMILY income. See Income

FAMILY of products

All-America package competition; award to Canadian oil companies, White Rose packages. il Mod Packaging 15:180-1 Ap '42

New costumes and a trade mark; Sunshine biscuits. il Mod Packaging 15:60 D '41

FANS, Electric. See Electric fans

FANS, Mechanical

Fan blades for cooling towers; phenolic-resin-impregnated wood. il Mod Plastics 19:46+ D '41

Fan laws; their derivation and use. W. Goodman. il Heating-Piping 14:487-90, 535-7, 617-19 Ag-O '42

Fans; their types, characteristics, and applications. C. G. Ferguson. il Engineer 173: 274-6, 294-6 Mr 27-Ap 3 '42

How to save critical metals in specifying nonspark fans. E. P. Heckel. Heating-Piping 14:229 Ap '42

Improvement of reversible dry kiln fans. A. D. Hughes. (Bul. ser. no. 16) 56p bibliog(p52-3) Oregon state college, Engineering exp. station, Corvallis '41

Mechanical draught; fundamental considerations regarding fans. V. Smith. Elec R (Lond) 130:433-4 Ap 3 '42

Plastics competition award to Foster Wheeler corp.; cooling tower fans. il Mod Plastics 19:108-9 N '41

Some features of propeller fan performance. W. L. Upson. il Refrig Eng 43:343-6 Je '42

See also

Blowers

Electric fans, Ventilating

Fans, Mine

Mechanical draft

Bibliography

Abstracts from the scientific and technical press. Roy Aeronautical Soc J 46:349-52 O '42

Control

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

Design

Chemical engineering aspects of centrifugal fan design. C. V. Herrmann. bibliog diags Am Inst Chem Eng Trans 38:365-76 Ap '42; Same cond. Chem & Met Eng 49: 156-8, 217-19 Ag-S '42

FANS, Mine

All-out fan drive tops ventilation work at Pursglove No. 15. il plan Coal Age 47:56-8 Ag '42

Evasee on a centrifugal exhaust fan. W. S. Weeks. diags Eng & Min J 143:45-7 Ja '42

Fans; their types, characteristics, and applications. C. G. Ferguson. il Engineer 173: 295-6 Ap 3 '42

War maintenance; pumps and fans. il Coal Age 47:103-4 O '42

FAR EAST

Atlas of Far Eastern politics. G. F. Hudson and M. Rajchman. enl ed 207p $2.50 Day '42

Basis for peace in the Far East. N. Peffer. 277p $2.50 Harper '42

French interests and policies in the Far East; part I, Century of French Far Eastern affairs, by R. Levy; part II, French Indo-China in transition, by A. Roth. 206p $2 International secretariat, Inst. of Pacific relations, New York '41

Setting sun of Japan. C. Randau and L. Zugsmith. 342p $3 Random house, New York '42

See also

China

Chinese-Japanese war

Japan

World war, 1939- —Japan

Bibliography

Bibliography of the Far East; prepared for senior high-school libraries. 26p pa 10c Nat. educational assn, 1201 16th st, NW, Washington, D.C. '42

Bibliography on the Far East. Inst. of Pacific relations, New York

Far East. D. Borg and H. Borton, comps. Booklist [ALA] 38:289-94 pt 2 Ap 1 '42

Commerce

Trade policies of foreign countries during 1941. H. Chalmers. For Comm W 6:6+ Ja 17 '42

Economic conditions

Foreign capital in southeast Asia. H. G. Callis. 120p bibliog(p109-20) pa $1.25 Inst. of Pacific relations, New York '42

Foreign relations

United States

United States and the Far East; certain fundamentals of policy. S. K. Hornbeck. 100p $1; pa 50c World peace foundation '42

Industries and resources

Industrialization of the western Pacific. K. L. Mitchell. 317p $2.50 Inst. of Pacific relations, New York '42

Industry in southeast Asia. J. Shepherd. 133p pa 75c Inst. of Pacific relations, New York '41

Positions of Far East products. Barron's 22: 6 F 16 '42

Trumps in the Pacific showdown. map Business Week p16 D 13 '41

Maps

Oil map of the Far East. Business Week p36 Ja 24 '42

Trumps in the Pacific showdown. Business Week p16 D 13 '41

FAR EASTERN question
American unity and Asia. P. S. Buck. 140p $1.25 Day '42
East and West. Economist 142:386-7 Mr 21 '42
Government and nationalism in southeast Asia. R. Emerson; L. A. Mills; V. Thompson. 238p $2 Inst. of Pacific relations, New York '42
Valor of ignorance. H. Lea. 343p $2.50 Harper '42

FARINA
Standards halted; Circuit court of appeals set aside standards of identity for farina and enriched farina. Business Week p42 Jl 11 '42

FARM accidents
Embattled farmers; problem of safety on the farm. T. R. Reid. il Nat Safety N 45:17-18+ Ap '42

FARM buildings
Builders put hogs on concrete for bigger pork profits; how to plan and build permanent sanitary hog house and feeding floor. il plan Am Bld 64:82-3 Ap '42
City contractors find farm construction a profitable field. diags Concrete 50:10+ Ag '42
Have you tried selling to the farmer? il Brick & Clay Rec 101:17 Ag '42
How to build out rats with concrete floors, foundations and walls. diags Am Bld 64:60 Ag '42

See also
Dairies
Farmhouses
Milk houses

FARM credit administration
Loans and discounts outstanding, by institutions, yearly 1934-1939 and monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:51 Ja '42 [cont monthly]

FARM houses. See Farmhouses

FARM income
Cash farm income climbs above all previous highs; pictograph. Sales Management 51:29 S 15 '42
Farm and wage incomes soar together. Barron's 22:1 Mr 30 '42
Farm income to reach new peak. Steel 110:415-17 Ja 5 '42
Farm prosperity assured for duration; this year's income will top thirteen billions. Sales Management 50:28+ Ja 1 '42
Farmer's doing okay; pictograph. Sales Management 51:29 Jl 15 '42
Increased farm income assured by demand for more food. Bankers Mo 58:512-13 N '41
Indexes of cash income from farm marketings, and prices received by farmers, 1939-April 1942; chart. Survey of Cur Business 22:2 Je '42
Is the farm problem ended? R. P. Crawford. Barron's 22:3 O 12 '42
1941 farm income is at highest since 1920. Comm & Fin Chr 155:1057 Mr 12 '42
1941 gross farm income 26% higher than in 1940. Comm & Fin Chr 156:174 Jl 16 '42
Ten states produce half of farm income; pictograph. Sales Management 50:40 My 15 '42

Bibliography

Distribution of farm income by size. L. O. Bercaw and H. E. Hennefrund, comps. (Agricultural economics bibliog. 96) 103p U.S. Bur. of agricultural economics, Library, Washington '42

FARM labor
Agricultural labour supply problems in the U.S.S.R. Int Labour R 46:343-4 S '42
Asks USDA war boards help mobilize farm labor. Comm & Fin Chr 155:1162 Mr 19 '42
Bilateral agreement concerning the temporary migration of Mexican farm workers to the United States. Int Labour R 46:469-71 O '42
Book of farmcraft. M. Greenhill and E. Dunbar. 96p $1.75 Longmans '42
Children in agriculture. Economist 142:889 Je 27 '42
Disparity between farm and factory. Nat City Bank p 112-13 O '42
Earnings of agricultural workers. Economist 142:52-3 Ja 10 '42
Essential-work order for agriculture in Scotland, 1941. L. V. Steere. Monthly Labor R 53:1405 D '41
Evacuees to farms. Business Week p40+ S 19 '42
Farm hands win; mechanical loaders boosting pay of piecework labor in hay harvesting. Business Week p62 S 5 '42
Farm labor shortages. Nat City Bank p124-5 N '42
Government acts to avert farm labor shortage. Comm & Fin Chr 156:727 Ag 27 '42
Harvest handicap. il map Business Week p56+ My 2 '42
How will labor shortages affect canners? Barron's 22:6 Je 29 '42
Ill fares the land; migrants and migratory labor in the United States. C. McWilliams. 419p bibliog(p391-411) $3 Little '42
Labor under the Farm Security program. F. E. Parker. Monthly Labor R 53:1368-87 D '41
Land and labour. Economist 141:469-70 O 18 '41
Land and labour; a social survey of agriculture and the farm labour market in central Canada. G. V. Haythorne and L. C. Marsh. 568p $4 McGill univ. lib, Montreal '41
Minimum wage for agricultural workers in England and Wales. Monthly Labor R 54:501-2 F '42
Minimum wages in agriculture in Santa Fe province, Argentina, 1941-42. Monthly Labor R 54:772-3 Mr '42
Requisitioning of labour for agriculture in France. Int Labour R 46:344-7 S '42
Rise in farm wages, 1941. Monthly Labor R 53:1570-1 D '41
Victory vacations; recruiting city folk for duty in harvest fields. Business Week p75-6 Ap 25 '42
Warns farm labor problem is serious threat to food production. C. Wickard. Comm & Fin Chr 156:1178 O 1 '42
War-time adjustments in farm tenure. R. Schickele. J Land & Pub Util Econ 18:166-7 My '42

See also
Agricultural education
Fruit pickers

Bibliography

Agricultural labor in the United States, 1938-June 1941. J. M. McNeill and J. C. Folsom, comps. (Agricultural economics bibliog. 95) 268p U.S. Bur. of agricultural economics, Library, Washington '42

FARM land values. See Land values

FARM life
Life on the land. F. Kitchen. 276p 12s 6d J. M. Dent & sons, London '41

FARM loans. See Agricultural credit

FARM management
Farm management and marketing. V. B. Hart, M. C. Bond and L. C. Cunningham. 647p $2.75 Wiley '42
Permanent agriculture. W. Scott and J. B. Paul. 614p $2.50 Wiley '41

See also
Farm labor

FARM market
Agstone. il Rock Prod 45:33-84 My '42
Assignments vs. grant-of-aid contracts; Hopkinsville stone co. finances agricultural limestone sales through farmer assignments under A.A.A. il Rock Prod 45:52-4 Je '42
Farm expenditures for gasoline, oil, kerosene; tabulation. Automotive & Aviation Ind 86:76 Mr 15 '42
Farm market offers tailor-made opportunity. F. B. Nichols. Ptr Ink 197:25, 28-9 N 28 '41

FARM market—*Continued*

Farmer is nation's top beneficiary from expanding war program. Sales Management 50:24-6+ Ja 1 '42

Farmer's in the velvet; farmers need (and are in better shape to buy) more oil products than ever. il Nat Pet N 34:31-2 My 20 '42

Have you tried selling to the farmer? il Brick & Clay Rec 101:17 Ag '42

Independent jobbers urged to go after farm business; abstract. C. H. Linn. Nat Pet N 34:35 Mr 18 '42

Merchandise availability in Utah. D. E. Faville, D. M. Jones and R. B. Sonne. 229p $3 Stanford univ. press '42

Motor fuel consumed on farms. Nat Pet N 34:30 Je 17 '42

New picture of America's biggest industry: the farm. Sales Management 51:66 Jl 1 '42

1940 census provides much information for use by electric industry; with tabulated data on farms by size of income, by states and by geographic division, 1929-1939. M. Rainey. Edison Elec Inst Bul 10:21-4 Ja '42

Reaching farm markets for ready mix concrete. il Rock Prod 45:66, 68 Je '42

Selling to American farmers. L. A. Williams. Nat Underw (Life ed) 45:2+ D 26 '41

Wartime marketing management. il Nat Pet N 34:31-2 Je 3; 29-30 Je 10; 28+ Je 17 '42

See also

Advertising—Farmers, Appeal to

Farm income

Plumbing trade—Farm market

FARM mortgages. See Mortgages, Farm

FARM news. See Newspapers—Farm news

FARM papers

See also

Advertising mediums—Farm papers

FARM produce

Bulging granary; stocks of commodities held by the Commodity credit corp. Business Week p30 Mr 7 '42

Food output, buying power at peak levels. Comm & Fin Chr 155:229 Ja 15 '42

Government buys $800 million worth of farm products during first year of Department of agriculture's expanded purchase program. Comm & Fin Chr 155:1342 Ap 2 '42

Raw material prospects good for farm product processors. Barron's 22:8 My 18 '42

See also

Beets and beet sugar
Butter
Corn
Cotton
Crops
Dairy products
Fruit
Live stock
Rice
Soybeans
Sugar
Tobacco
Vegetables
Wheat

By-products

Plastics from agricultural by-products. O. R. Sweeney, L. K. Arnold and W. D. Harris. il Mod Plastics 19:70, 72+ D '41

See also

Corn products

Industrial uses

Surplus grains fuel Argentine boilers; corn, pulverized barley, bran, sorghum, seedcake and sunflower-seed husks replace coal and oil. il diags Power 86:538-41 Ag '42

See also

Chemurgy

Marketing

A.&P. co-op flops; chain drops plan to market big share of nation's produce through Atlantic commission. Business Week p54+ Mr 21 '42

Farm management and marketing. V. B. Hart, M. C. Bond and L. C. Cunningham. 647p $2.75 Wiley '42

Moving surpluses; fruit and vegetable co-op, dropping its A.&P. ties, takes its place among groups set up to move farmers' excess output. Business Week p53-4 Ag 15 '42

Open season for middlemen. Barron's 22:6 N 2 '42

Theoretical analysis of imperfect competition with special application to the agricultural industries. W. H. Nicholls. 384p bibliog (p365-71) $3.75 Iowa state college press, Ames '41

See also

Marketing, Cooperative

Prices

Agricultural price analysis. G. S. Shepherd. 402p $3.75 Iowa state college press, Ames '41

Agricultural price controls extended. Survey of Cur Business 22:4 O '42

America's food problem recast. il Business Week p15-16 O 31 '42

Anti-inflation bill gives President broad powers over prices, wages, salaries. Comm & Fin Chr 156:1267 O 8 '42

Anti-inflation program blocked in House by farm lobby. Oil Paint & Drug Rep 142:3+ S 28 '42

Battle over farm prices. Barron's 22:6 Ag 31 '42

Congress debates wage-price stabilization bills; President opposes higher parity formula. Comm & Fin Chr 156:1093 S 24 '42

Farm price relationships, Aug. 15, 1941 and Aug. 15 and March 15, 1942; tabulation. Fed Res Bul 28:984 O '42

Farm product prices average 102% of parity. Comm & Fin Chr 155:677 F 12 '42

Farm products and price control; chart. Business Week p40 D 13 '41

Farm products facing new controls. Barron's 22:6 S 14 '42

Farm program raises prices. Survey of Cur Business 22:29-30 F '42

Farm-retail price spreads. Barron's 22:6 Jl 20 '42

F.D.R. wins parity price fight. Business Week p 15-16 O 3 '42

Henderson wins; Wickard is playing ball. Business Week p17-19 F 7 '42

How price control looks now. Barron's 21:6 D 8 '41

How price controls work; developments in the field of commodities. Barron's 22:6 Mr 16 '42

Indexes of cash income from farm marketings, and prices received by farmers, 1939-April 1942; chart. Survey of Cur Business 22:2 Je '42

Inflation control in new phase. Barron's 22:6 O 12 '42

New price bases. Business Week p52 Ja 3 '42

Old parity policy. Business Week p68 Ja 17 '42

Parity, parity, parity. J. D. Black. 367p $2 Harvard com. on research in the social sciences, Littauer center, Cambridge, Mass. '42

Parity problems. Business Week p84-6 Jl 11 '42

President demands stabilization of wages and profits, with new ceiling on farm products; message to Congress; text. Comm & Fin Chr 156:889, 896-7 S 10 '42

Price control act. Nat City Bank p15-17 F '42

Price-control for labor, farmer asked in Congress. Oil Paint & Drug Rep 142:3+ S 21 '42

Price controls and farm products. Barron's 22:6 F 2 '42

Price fixing of agricultural products. W. C. Waite. Am Statis Assn J 37:13-21 Mr '42

Real lids on farm prices. Barron's 22:6 F 9 '42

Rise in farm products. Fed Res Bul 28:199 Mr '42

Senate prohibits sale of govt.-owned crops below parity despite presidential opposition. Comm & Fin Chr 155:950 Mr 5 '42

Showdown near on farm price control. Barron's 22:6 S 28 '42

Talking tough on inflation. Business Week p15-16 S 12 '42

FARM produce—Prices—*Continued*

Text of executive order providing for stabilizing wages, salaries, farm prices, etc. F. D. Roosevelt. Comm & Fin Chr 156:1265+ O 8 '42

That farm battle; farm bloc campaign to forbid CCC to sell stocks of products below parity prices. Business Week p30+ Mr 7 '42

Statistics

Agricultural production for sale and for consumption in the farm home in 1935-39 dollars by calendar years, chart. Survey of Cur Business 22:2 O '42

Farm production goals boosted. Barron's 22:6 Ja 26 '42

Record farm output with parity prices. Dun's R 49:30-1 D '41

Storage

Commercial storage of fruits, vegetables, and florists' stocks. D. H. Rose, R. C. Wright and T. M. Whiteman. rev ed U S Agric Circ 278:1-52 bibliog(p47-52) '41

Experiences in the operation of rural community locker plants. L. N. Baker. il plan Refrig Eng 42:375-80 D '41

Storage cellars of unreinforced concrete offer opportunity to contractors. il diags Concrete 50:14-15 Jl '42

Bibliography

1941 report of A.S.R.E. committee no. 10; agricultural products refrigeration. Refrig Eng 44:240-2 O '42

Transportation

Farm transport plans. Comm & Fin Chr 156:1557 O 29 '42

FARM resort

Zoning land for recreation; farm resort as a business. G. S. Wehrwein and H. S. Johnson. J Land & Pub Util Econ 18:51-2 F '42

FARM security administration

Borrowers pay off farm-purchase loans. Comm & Fin Chr 155:116 Ja 8 '42

Defense housing speeded; electric installations for knockdown dormitory buildings; Farm security administration. S. Beamer. il diag plan Elec West 87:54-6 N '41

F.S.A. insurance causes stir in Iowa. Nat Underw (Life ed) 46:7 My 8 '42

Industrial and rural workers on FSA homesteads. Monthly Labor R 54:360-83 F '42

Labor under the Farm Security program. F. E. Parker. Monthly Labor R 53:1368-87 D '41

Photographic laboratory of the FSA. B. Dudley. il plan Photo Tech 3:30-3 N '41

Toward farm security; the problem of rural poverty and the work of the Farm security administration. J. Gaer. 246p bibliog(p220-37) U.S. Farm security administration, Washington '41

FARM tenancy

Again the leeches; speculation in agricultural land. Economist 141:591 N 15 '41

Farm tenancy in California and methods of leasing. R. L. Adams and W. H. Smith, jr. (Agricultural exp. station bul. 655) 119p Univ. of California, Berkeley '41

Share-croppers decline as agriculture booms; pictograph. Sales Management 50:42 F 15 '42

Some observations on the relation of farm land tenure to soil erosion and depletion. O. T. Osgood. bibliog J Land & Pub Util Econ 17:410-22 N '41

War-time adjustments in farm tenure. R. Schickele. J Land & Pub Util Econ 18:163-8 My '42

FARM underwriters association

Annual meeting, Chicago. Nat Underw 46:4 Ja 15 '42

Green light on scholarship plan. Nat Underw 46:5 F 5 '42

Launch farm scholarships. R. W. Forshay. East Underw 43:20 Mr 13 '42

FARMERS

Farmer is nation's top beneficiary from expanding war program. Sales Management 50:24-6+ Ja 1 '42

Farmers' use of cooperatives. Monthly Labor R 54:117-19 Ja '42

Interprets compensation decision to include farm coverage. N. H. Debel. Weekly Underw 146:841 Ap 11 '42

Roosevelt urges farmers to settle debts. Comm & Fin Chr 156:109 Jl 9 '42

War bonds for farmers. W. I. Myers. Banking 35:76-7 N '42

Zoning and recreation; recreation and agriculture. G. S. Wehrwein and H. A. Johnson. J Land & Pub Util Econ 18:49-51 F '42

See also

Advertising—Farmers, Appeal to
Agricultural credit
Agriculture—Economic aspects
Farm income
Farm labor
Farm market
Land settlement
Marketing, Cooperative

FARMERS' cooperative associations

Banks for cooperatives get more from Treasury. Comm & Fin Chr 154:1231 N 27 '41

Farm co-ops and advertising. map Adv & Sell 35:48 Jl '42

Farmers' marketing and purchasing cooperatives, 1863-1939. R. H. Elsworth and G. Wanstall. Monthly Labor R 54:692-5 Mr '42

See also Electric service, Rural—Cooperative lines

Accounting

Farmer cooperative audits. H. V. Lindberg. 34p pa $1 H. V. Lindberg, 1823 S. Grand blvd, Spokane, Wash. '41

FARMERS' educational and co-operative union of America

Farmers union triangle. G. T. Edwards. new & rev ed 165p pa 25c Farmers union education service, Jamestown, N.D. '41

FARMERS' unions

Milk miners; Lewis and his U.M.W. open drive to organize dairy farmers of Northwest. Business Week p70-1 Ap 18 '42

FARMHOUSES

Remodeled farm house, Wilton, Conn. il plans Arch Rec 91:40 F '42

FARMS

Farm credit policy under present conditions. S. Nirdlinger. il Burroughs Clearing House 26:13-15+ Ja '42

Farm for fortune and vice versa; a handbook for city farmers. L. Haystead. 207p $2 Putnam '42

Farm land appraising; with essentials of farm management and agricultural engineering. H. S. Weaver. 574p $5 Weaver real estate appraisal training service, 114 W. 10th st, Kansas City, Mo. '41

Farm land price trends. map Banking 35:81 Ag '42

Farm real estate market in war time. M. M. Regan. J Land & Pub Util Econ 18:140-5 My '42

Farms unfrozen. Business Week p44+ Ag 8 '42

Road facilities for farms in Middle West. Roads & Sts 85:34 Je '42

Signs of a farm land boom. R. P. Crawford. Barron's 22:3 S 21 '42

See also

Agriculture
Electricity on the farm
Farm tenancy
Land settlement

Advertising

Dilemma of land use; comparison of sales booklet and Experiment station bulletin. A. L. Bertrand. J Land & Pub Util Econ 18:220-2 My '42

Statistics

Number of farms, by states, 1940; average size of farms in acres; pictograph. Sales Management 50:46 Ap 10 '42

FARMS for industrial workers

Farms for mill workers; Avondale mills. il Textile World 91:103-4 D '41

Industrial and rural workers on FSA homesteads. Monthly Labor R 54:360-83 F '42

Labor under the Farm Security program. F. E. Parker. Monthly Labor R 53:1368-87 D '41

FARNESENE

See also

Dihydrofarnesene

FARNESOL

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63: 2948-53 N '41

FARNSWORTH television and radio corporation

Annual report. Comm & Fin Chr 156:252 Jl 20 '42

FARRINGTON, John D. 1891-

E. M. Durham jr. is succeeded by John D. Farrington as executive of Chicago, Rock Island & Pacific railway. por Ry Age 113: 57+ Jl 11 '42

FASCISM

Between Hitler and Mussolini. E. R. Starhemberg. 281p $3 Harper '42

FASHION

Dame Fashion must bow to Mars. M. B. Clark. il Textile World 92:66-7 My '42

Design fashion and the textile industry; abstract. C. Belle. Textile Inst J 32:P102-4 O '41

Fashion drawing. F. Marshall. 96p $3.50 Studio publications, New York '41

Merchandising of fashions; policies and methods of successful specialty stores. J. B. Swinney. 397p $4 Ronald press '42

Show must go on, so let's have fashion promotion. W. M. Holmes. J Retailing 17:97+ D '41

Three centuries of women's dress fashions, a quantitative analysis. J. Richardson and A. L. Kroeber. p111-53 pa 50c Univ. of California press, Berkeley '40

Traphagen students show styles, à la WPB. il Textile World 92:81 Je '42

United States adopting fashions of the Americas. For Comm W 6:39 Mr 28 '42

War styles for women. Textile Col 64:284 Je '42

Ways of fashion. M. D. C. Crawford. 320p bibliog(p303-11) $3 Putnam '41

See also

Clothing and dress

Costume

FASTENINGS

Designs speed conversion to war production work; Tinnerman products, inc. making joining and fastening devices redesigns product to fit needs of aircraft industry. H. P. White. il diags Steel 111:113-14+ N 9 '42

Fabric attachments. A. M. Blamphin. il diags Product Eng 12:585-8, 645-8 N-D '41

Hand fixture cuts fastener slots; North American Aviation. il Am Mach 86:675 Je 25 '42

Mechanism for fastening panels and cowling to airplane fuselage. diags Mach 48:221-2 Jl '42

New gas tank insulation fastener; Tinnerman Speed Clips. E. Wheaton. il diag Aviation 41:69 Ap '42

North American produces Dzus fasteners. il Aviation 41:134+ Ag '42

See also

Bolts and nuts

Rivets

Screws

Testing

Testing aircraft cowl fasteners. O. J. Poupitch. il Aviation 41:128, 332 O '42

FASTNESS of dyes. See Dyes, Fastness of

FAT

Fats of fish. J. A. Lovern. Chem & Ind 61:335 Ag 1 '42

Nation's food; meat as food; the fat, protein, and water contents of meat. E. H. Callow. Chem & Ind 61:381-2 S 12 '42

See also

Oils and fats

FATH, Creekmore

Portrait. Business Week p14 Ap 11 '42

FATHOMETER. See Sounding

FATIGUE

Effect of driving fatigue on the critical fusion frequency of the eye. R. H. Lee and E. C. Hammond. Ind Med 11:360-3 Jl '42

Effect of pervitin (desoxyephedrine) on fatigue of the central nervous system. E. Simonson and N. Enzer. bibliog J Ind Hygiene 24:205-9 S '42

Fatigue and productivity. 8p bibliog(p2) Industrial relations section, Dept. of economics and social institutions, Princeton univ, Princeton, N.J. '42

Fatigue of workers, its relation to industrial production. G. C. Homans and others. 165p $2.50 Reinhold pub. corp. '41

Findings from major studies of fatigue. R. R. Sayers. U S Bur Mines Information Circ 7209:1-46 bibliog(p43-6) '42; Excerpts. Concrete (mill sec) 50:271-2, 286-7 N-D '42

How's the morale? measures which prevent physical and emotional fatigue bring returns in health, safety and increased energy. C. T. Fish. il Nat Safety N 45:25+ Je '42

Industrial fatigue; abstract. H. M. L. Murray. J Ind Hygiene 24:sup31 F '42

Influence of vitamin B (complex) surplus on the capacity for muscular and mental work. E. Simonson and others. bibliog J Ind Hygiene 24:83-90 Ap '42

Jeep plant fights fatigue; use of Verd-A-Ray lamps. F. Beekman. il Safety Eng 83:22, 24 Ap '42

Overcoming fatigue. Nat Safety N 45:176+ Mr '42

Physiological fatigue from exposure to hot environments. M. B. Ferderber, F. C. Houghten and W. L. Fleisher. bibliog Heating-Piping 14:139-42 F '42

Posture and fatigue. J. R. Garner. Nat Safety N 45:38, 40 F '42; Same. Concrete (mill sec) 50:137-8 Mr '42

Removing the causes of worker fatigue; Juvenile mfg. co., San Antonio. H. M. Scherr. il Factory Management 100:130-1+ Ag '42

Study of fatigue. R. R. Sayers. Chem & Eng N 20:457 Ap 10 '42

See also

Motion study

Recreation

FATIGUE in metals

Calculation and graphical representation of the fatigue strength of structural joints. Welding J 21:sup87-93 F '42

Crankshaft failures; investigations in research department of Institution of automobile engineers. C. G. Williams and J. S. Brown. il diags Automobile Eng 31:401-5 N '41

Designing for bending, twisting and axial loads; fatigue stresses. J. Marin. il diags Machine Design 14:78-80+ O '42

Designing shrink-fit assemblies; fatigue stresses. J. Marin. il diags Machine Design 14:78-83+ Ag '42

Determining fatigue in sucker rods. W. A. Sawdon. il Pet Eng 13:23-6 F '42

Development of play in bolted joints under fatigue; abstract. B. Dirksen. Roy Aeronautical Soc J 46:sup300-1 Ag '42

Effect of range of stress on the fatigue strength of metals. J. O. Smith. Ill U Eng Exp Sta Bul 334:1-52 bibliog(p47-9) '42

Effect of shot blasting and its bearing on fatigue. J. M. Lessells and W. M. Murray. bibliog il Am Soc T M Proc 41:659-73 '41; Conclusions. Iron Age 148:65-6 Jl 10 '41; Discussion. Am Soc T M Proc 41:674-81 '41

Effect of type of testing machine on fatigue test results. il diags Am Soc T M Proc 41: 133-50; Discussion. 151-3 '41

FATIGUE in metals—*Continued*

Effect on the endurance limit of submerging fatigue specimens in a cold chamber. O. H. Henry and T. D. Coyne. il diags Welding J 21:sup249-54 My '42

Effect on the endurance limit of submerging resistance-welded fatigue specimens in a cold chamber. O. H. Henry and P. L. Calamari. Welding J 21:sup291-2 Je '42

Effect on the endurance limit of submerging welded fatigue specimens in a cold chamber. O. H. Henry and S. Cannizzaro. il diag Welding J 21:sup387-8 Ag '42

Facts and fallacies of stress determination. J. O. Almen. il diags S A E J 50:52-61 F '42; Discussion. 49:sup28 D '41

Fatigue and static load tests of a high-strength cast iron at elevated temperatures. W. L. Collins and J. O. Smith. il diags Am Soc T M Proc 41:797-807; Discussion. 808-10 '41

Fatigue comparison of 7-in. diameter solid and tubular axles. O. J. Horger and T. V. Buckwalter. il Am Soc T M Proc 41:682-93; Discussion. 694-5 '41

Fatigue evaluates corrosion; abstract. W. H. Mutchler and J. A. Kies. Iron Age 150:62-3 Jl 9 '42

Fatigue of metals; some facts for the designing engineer. D. Landau. 2d ed 88p bibliog(p83-8) Nitralloy corp, 230 Park av, New York '42

Fatigue strength improved by flame treatment. O. J. Horger and T. V. Buckwalter. bibliog il diags Iron Age 148:47-53 D 18 '41

Fatigue strength of arc welds; abstract. W. M. Wilson. Iron Age 150:46-7 O 22 '42

Fatigue strength of crankshafts. C. G. Williams and J. S. Brown. il diags Engineering 154:58-9, 78-80 Jl 17-24 '42

Fatigue strength of welded joints; a review of the literature from October 1936 to September 1941. W. Spraragen and D. Rosenthal. bibliog(127 references) il diags Welding J 21:sup297-348 Jl '42

Fatigue tests of full thickness plates with and without butt welds. E. C. Huge. diags Welding J 21:sup507-14 O '42

Fatigue tests on some copper alloys. A. R. Anderson and C. S. Smith. bibliog diags Am Soc T M Proc 41:849-57; Discussion. 858 '41

Fretting corrosion and fatigue strength: brief results of preliminary experiments. E. J. Warlow-Davies. bibliog Inst Mech Eng J & Proc 146:Proc 32-8, pl 1-2 N '41; Discussion. 147:Proc 83-7 My '42

How surface condition affects fatigue strength; abstract. O. J. Horger and H. R. Neifert. Automotive Ind 85:78 D 1 '41

Intercrystalline cracking in boiler plates; some experiments on the behaviour of specimens of boiler plate and boiler joints subjected to slow cycles of repeated bending stresses while immersed in a boiling aqueous solution. H. J. Gough and H. V. Pollard. diags Iron & Steel Inst J 143:136-58, pl 21-7 no 1 '41

Interpretation of experiments on fatigue strength of metals subjected to combined stresses. J. Marin. bibliog diags Welding J 21:sup245-8 My '42

New high-temperature fatigue machine. W. P. Welch and W. A. Wilson. il diags Am Soc T M Proc 41:733-45 '41; Abstract. Steel 109:62-3 N 24 '41; Discussion. Am Soc T M Proc 41:746 '41

Notch sensitivity of welds under repeated loading. H. L. Daasch. bibliog il diags Welding J 21:sup60-4 Ja '42

Pitting and its effect on the fatigue limit of steels corroded under various conditions. D. J. McAdam, jr. and G. W. Geil. bibliog il Am Soc T M Proc 41:696-731; Discussion. 732 '41

Temper theory with experience; stress and fatigue testing. J. O. Almen. Machine Design 13:72-6 D '41

FATS. See Oils and fats

FATTY acids. See Acids, Fatty

FAULTS (electric distribution). See Electric distribution—Grounds and faults

FAULTS (geology)

Earth motions in the vicinity of a fault slip. N. H. Heck and F. Neumann. diags Geol Soc Bul 53:179-93, pl 1 F '42

Folded thrust faults in the foothills of Alberta. B. F. Hake, R. Willis and C. C. Addison. diags maps Geol Soc Bul 53:291-334 bibliog(p333-4) F '42

Heart Mountain and South Fork thrusts, Park county, Wyoming. W. G. Pierce. bibliog pls diags maps Am Assn Pet Geologists Bul 25:2021-45 N '41

Ottawa-Bonnechere graben and Lake Ontario homocline. G. M. Kay. diags maps Geol Soc Bul 53:585-646 bibliog(p644-6) pl 1-7 Ap '42

Post-Appalachian faulting in western Kentucky. R. Rhoades and A. J. Mistler. bibliog map Am Assn Pet Geologists Bul 25:2046-56 N '41

Sealing effect of fault surfaces. G. S. Taitt. diags Inst Pet J 28:109-12 Je '42

Structure of the upper Laramie River valley, Colorado-Wyoming. R. H. Beckwith. bibliog map fold pl Geol Soc Bul 53:1491-1532 O '42

Trace-slip faults. R. H. Beckwith. bibliog diags Am Assn Pet Geologists Bul 25:2181-93 D '41

Typical oil-field structures; fault line, Luling and Powell fields, Texas. diags maps Oil & Gas J 41:32b-32c S 17 '42

FAVORED nation clause

America's trade equality policy. H. O. Davis. 137p $3 Am. council on public affairs, Washington, D.C. '42

FEAR

Finds public suffers from fear phobia. W. D. Fuller. Comm & Fin Chr 156:188 Jl 16 '42

Victory over fear. J. Dollard. 213p $2 Reynal & Hitchcock, 386 4th av, New York '42

FEATHERS

Feather depigmentation and pantothenic acid deficiency in chicks. T. C. Groody and M. E. Groody. bibliog Science 95:655-6 Je 26 '42

FEDERAL administrative procedure, Office of (proposed). See United States—Federal administrative procedure, Office of (proposed)

FEDERAL agencies. See United States—Executive departments

FEDERAL anthracite commission

Planning for the anthracite area; from report of Federal anthracite commission. map Min & Met 23:338 Je '42

Unused manpower in Pennsylvania anthracite area. Monthly Labor R 54:1101-6 My '42

FEDERAL bureau of investigation. See United States—Federal bureau of investigation

FEDERAL commissions. See United States—Executive departments; also names of commissions, e.g. Federal trade commission; Interstate commerce commission

FEDERAL communications commission

Annual report. Pub Util 29:108-10 Ja 15 '42

FCC monitoring set-up; Foreign broadcast monitoring service. J. L. Fly. Radio N 27:71 Ja '42

FCC turns the dial. T. N. Sandifer. Pub Util 29:93-7 Ja 15 '42

Problems arising in regulating the communication facilities of the nation in the interests of the present war effort. R. C. Wakefield. Pub Util 30:596-604 O 22 '42

FEDERAL crop insurance corporation

Careers of men who direct affairs. East Underw 42:19 D 19 '41

FEDERAL deposit insurance corporation. See Banks and banking—Guaranty of deposits

FEDERAL government

Federalism and freedom; or, Plan the peace to win the war. G. Young. 204p 12s 6d Oxford '41

Federalism as a democratic process. R. Pound; C. H. McIlwain; R. F. Nichols. 90p $1.25 Rutgers univ. press, New Brunswick, N.J. '42

FEDERAL government—*Continued*
Heart of Europe. D. de Rougemont and C. Muret. 274p $2.50 Duell, Sloan and Pearce, New York '41
Presidency; its tradition is leadership in freedom; will Franklin Roosevelt preserve that tradition? il Fortune 25:37-41+ Ja '42
See also
State governments—
Federal relations

FEDERAL home loan banks. See Home loan banks

FEDERAL housing administration
Big boost in FHA loans made in bill. East Underw 43:10 My 29 '42
Building today; F.H.A. housing and defense. T. G. Grace. il Am Gas Assn Mo 24:13-14 Ja '42
Change in Title VI. Arch Rec 91:88 Mr '42
Emergency housing and post-war results; defense housing mortgage insurance. A. H. Ferguson. Trusts & Estates 74:37-8 Ja '42
FHA as a factor in combatting inflation. P. M. Stoner. Bankers M 144:192-6 Mr '42
FHA houses in metropolitan districts. Monthly Labor R 55:752-5 O '42
FHA insurance for war housing projects over $350 million. Comm & Fin Chr 156:1351 O 15 '42
FHA-insured mortgage activity in 1941 at peak. Comm & Fin Chr 155:1161 Mr 19 '42
FHA is again functioning on Title VI; bigger loans for remodeling. Am Bld 64:18 Jl '42
F.H.A. promotes national repair for defense program. Am Gas Assn Mo 24:26-7 Ja '42
FHA splits up into regions; emergency liberalizations under Title VI. R. R. Dickey. Arch Rec 91:20 My '42
Federal housing and World war II. R. G. Weintraub and R. Tough. J Land & Pub Util Econ 18:155-62 My '42
Financial institutions active in FHA mortgages. Comm & Fin Chr 155:1263 Mr 26 '42
Five rooms and lot at $5,200; average house in a sampling of 160,000; FHA experience. Arch Forum 75:416-17 D '41
Government pushes campaign to convert-conserve; wartime guide to building materials and FHA terms. il Am Bld 64:54, 56 O '42
Loans insured (gross) and insured home mortgages (Title II) held in portfolio by classes of institutions. Fed Res Bul 28:52 Ja '42 [cont monthly]
New opportunities for FHA mortgage financing. Bankers M 144:402-5 My '42
Official information on current FHA loans. T. Zener. Bankers Mo 59:456-7 O '42
Opportunities under title VI. il diags plans Am Bld 64:48-59 Mr '42
Trends in home building practice. diags Am Bld 64:41-3 Ja '42
Wartime FHA loans. Banking 35:53 O '42
See also
Federal public housing authority

FEDERAL interdepartmental safety council
Annual meeting, 4th, Washington, Dec. 9. Safety Eng 83:34-5 F '42

FEDERAL land bank system. See Land banks

FEDERAL loans and grants. See Government loans and grants

FEDERAL maritime labor board
MLB folds up. Business Week p88-9 Mr 14 '42

FEDERAL power commission
FPC has authority to exclude disapproved cost items from accounts. Pub Util 30:323-4 Ag 27 '42
FPC to oversee all U.S. power contracts. Elec W 118:1454 O 31 '42
Has the Supreme court torpedoed Smyth v. Ames? decision of the U.S. Supreme court in Natural gas pipeline company v. Federal power commission. Pub Util 29:505-8 Ap 9 '42
Membership of the Federal power commission; portraits. Gas Age 90:52 O 8 '42
Supreme court refuses to ban trial on FPC license. Elec W News ed 118:1354 O 24 '42

FEDERAL public housing authority
Federal housing decentralized to get speedier construction. H. Emmerich. Eng N 128:917 Je 4 '42
FPHA duration dormitories for industrial war workers; scheme proposed by Paul Nelson, architect. diags plans Arch Rec 92:44-6 Jl '42
FPHA jig tables for field assembly. il diags plans Arch Forum 76:199-203 Ap '42
Ford bucks FPHA housing development in backyard of his Willow Run plant. Eng N 129:58 Jl 9 '42
Herbert Emmerich appointed new head. R. R. Dickey. Arch Rec 91:16 Ap '42
Shelter to speed war work; program of Federal public housing authority. Arch Rec 91:38+ Je '42

FEDERAL reserve act
Amendments to Federal reserve act. Fed Res Bul 28:748-9 Ag '42
Change in reserve requirements now law; other measures. Comm & Fin Chr 156:112 Jl 9 '42
Federal reserve act amendments. Comm & Fin Chr 156:106 Jl 9 '42
Text of measure amending Federal reserve act affecting reserve requirements. Comm & Fin Chr 156:200 Jl 16 '42

FEDERAL reserve bank of Chicago
Report for 1941. Comm & Fin Chr 155:232 Ja 15 '42

FEDERAL reserve bank of Cleveland
Federal reserve bank of Cleveland. A. F. Blaser, jr. 306p bibliog(p289-92) $3.50 Columbia univ. press '42

FEDERAL reserve bank of New York
Inflation and price control discussed in annual report. Comm & Fin Chr 155:1149 Mr 19 '42

FEDERAL reserve bank of San Francisco
Foreign funds control; special regulation issued by the Federal reserve bank of San Francisco as fiscal agent of the United States; transactions in property of persons evacuated from Pacific coast. Fed Res Bul 28:308 Ap '42
Protection of evacuees' interests. Fed Res Bul 28:321-2 Ap '42

FEDERAL reserve banks
Bank credit and war finance. Fed Res Bul 28:525-31 Je '42
Dispute increased inflationary powers would result from Reserve bank purchasing governments. Comm & Fin Chr 155:770 F 19 '42
Eccles urges Reserve banks buy governments from Treasury under War powers bill; favored by American bankers association. Comm & Fin Chr 155:769 F 19 '42
Executive officers' loans; report of loan from another bank which existed at time of admission to Federal reserve system. Fed Res Bul 28:102 F '42
Favors changes in reserve requirements. M. S. Eccles. Comm & Fin Chr 155:2408 Je 25 '42
Federal Reserve and the Treasury; buying government obligations from the Treasury. Bankers M 144:188+ Mr '42
Federal Reserve board issues rules for financing of war contracts. Comm & Fin Chr 155:1542 Ap 16 '42
Financing of contracts for war production; with text of order authorizing War and Navy departments and Maritime commission to enter into financing contracts. Fed Res Bul 28:298-301 Ap '42
For easy money; Federal Reserve purchase of $200,000,000 of Treasury securities helps keep down the cost of war financing. Business Week p94 Ag 15 '42
Purchase of government obligations. Fed Res Bul 28:301-2 Ap '42
Reserve banks buy government securities. Barron's 22:19 Jl 13 '42
War financing; regulation V. Fed Res Bul 28:424-7 My '42

FEDERAL reserve banks—*Continued*

Collection rules

Reserve bank rules on Saturday cash collection. A. Sproul. Comm & Fin Chr 156:32 Jl 2 '42

Credit policy

Advances on government obligations. Fed Res Bul 28:207 Mr '42

Advances on government obligations; amendment to Regulation A. Fed Res Bul 28:302 Ap '42

Discounts by Federal reserve banks; amendment to Regulation A. Fed Res Bul 28:989 O '42

Federal reserve regulation of consumer credit. W. F. Treiber. J Account 72:500-9 D '41

See also
Instalment plan—Regulation

Directors

Directors of Federal reserve banks and branches; list of names by districts. Fed Res Bul 28:115-24 F '42

Terms of directors of the Federal reserve banks and branches. Fed Res Bul 28:881 S '42

Loans to industry

Industrial advances, Dec. 26, 1934, to Dec. 31, 1941 (last Wednesday of each month). Fed Res Bul 28:33 Ja '42 [cont monthly]

Industrial loans by Federal reserve banks. Comm & Fin Chr 155:2320 Je 18 '42

Industrial loans; revision of Regulation S. Fed Res Bul 28:427-30 My '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:326-31 O '42

Member banks

All member banks; classification of loans; investments, real estate, and capital on Dec. 31, 1941 by classes of banks. Fed Res Bul 28:378 Ap '42

All member banks; classification of loans, investments, real estate, and capital on June 30, 1942 by classes of banks. Fed Res Bul 28:964 S '42

All member banks; condition on selected call dates, March 31, 1937, to April 4, 1942; condition on April 4 by classes of banks. Fed Res Bul 28:606-7 Je '42

All member banks; condition on September 24, 1941, by classes of banks. Fed Res Bul 27:1280 D '41

All member banks; condition on Dec. 31, 1941 by classes of banks. Fed Res Bul 28:377 Ap '42

All member banks; condition on June 30, 1942 by classes of banks. Fed Res Bul 28:963 S '42

Central banking technique; Federal reserve board reduction in reserve requirements. Bankers M 145:229 S '42

Changes in publication of statistics of bank debits; bank debits—weekly debits to demand deposit accounts, except interbank and U.S. government accounts, of weekly reporting member banks in 101 leading cities, Jan. 8, 1941-April 15, 1942. Fed Res Bul 28:450, 503 My '42

Development and use of member bank earning and expense statements. Fed Res Bul 27:1230-1 D '41

Earnings and expenses during 1941. Fed Res Bul 28:172-3 F '42

Member bank earnings and expenses in 1941; with comparisons, 1928-1940. Fed Res Bul 28:551 Je '42

Member bank earnings and expenses, 1941, by size of bank. Fed Res Bul 28:715-17 Jl '42

Member bank earnings and expenses, 1941; with comparisons for other years. Fed Res Bul 28:711-22 Jl '42

Regional distribution of commercial loans. Fed Res Bul 28:882-91 S '42

Reserves: amendment to Regulation D; computation of deficiencies, loans and dividends while reserves are deficient. Fed Res Bul 28:202 Mr '42

Reserves of member banks; Regulation D amended. Fed Res Bul 28:749-53 Ag '42

Reserves required to be maintained by member banks with Federal reserve banks. Fed Res Bul 28:989 O '42

Survey of commercial loans at member banks. Fed Res Bul 28:768-73 Ag '42

Weekly reporting member banks, by Federal reserve districts; loans and investments, reserves and liabilities. Published in monthly numbers of Federal reserve bulletin

Weekly reporting member banks, New York city and outside; loans and investments, reserves and liabilities. Published in monthly numbers of Federal reserve bulletin

Statistics

Banking developments, 1941. Survey of Cur Business 22:60-2 F '42

Earnings and expenses during 1941. Fed Res Bul 28:172-3 F '42

Earnings and expenses of Federal reserve banks during the six-month period ended June 30, 1942. Fed Res Bul 28:851 Ag '42

Federal reserve banks earned less in 1941. Comm & Fin Chr 155:225 Ja 15 '42

Federal reserve notes; Federal reserve agents' accounts, by weeks Dec. 3-Dec. 31, 1941. Fed Res Bul 28:33 Ja '42 [cont monthly]

Member bank earnings and expenses, 1941; with comparisons for other years. Fed Res Bul 28:711-22 Jl '42

Member bank reserves, Reserve bank credit, and related items; weekly and monthly figures, 1940. Fed Res Bul 28:27 Ja '42 [cont monthly]

Principal assets and liabilities of all Federal reserve banks; also maturity distribution of bills and U.S. government securities held by Federal reserve banks. Fed Res Bul 28:29 Ja '42 [cont monthly]

Statement of condition of the Federal reserve banks by weeks, Dec. 3-Dec. 31, 1941. Fed Res Bul 28:30-2 Ja '42 [cont monthly]

Stock

Federal reserve bank stock; tax on dividends. Fed Res Bul 28:753-5 Ag '42

FEDERAL reserve board

Regulation W as revised effective May 6, 1942: consumer credit. Fed Res Bul 28:410-23 My '42

Reserve board changes stock list publication. Comm & Fin Chr 155:934 Mr 5 '42

FEDERAL savings and loan associations

Earnings of federal funds in private institutions; savings and loan associations dividends for the last half of 1941. Comm & Fin Chr 155:843 F 26 '42

Federal savings and loan shares as trust investments. H. Russell. Trusts & Estates 75:171-3 Ag '42

Savings and loan activity increased in N.Y. district in 1941. Comm & Fin Chr 155:1619 Ap 23 '42

Savings and loan associations. F. W. Walters. Mag of Wall St 69:210-11+ N 29 '41

Accounting

Auditor's opinion on the basis of a restricted examination (No. 2). J Account 74:440-3 N '42

FEDERAL savings and loan insurance corporation

Assets up in 1941. Comm & Fin Chr 155:860 F 26 '42

Insured savings, loan associations in 1941. O. Kreutz. Comm & Fin Chr 155:108 Ja 8 '42

Report. Comm & Fin Chr 156:112 Jl 9 '42

Savings and loan associations. F. W. Walters. Mag of Wall St 69:210-11+ N 29 '41

FEDERAL securities act. See Securities—Law

FEDERAL shipbuilding and dry dock company

Federal Shipbuilding: whose is it? interim report on the twilight status of a company that was taken over by the government. Fortune 25:138-9 Ja '42

FEDERAL shipbuilding and dry dock company —*Continued*
Returned to private ownership by Navy department. Comm & Fin Chr 155:156 Ja 10 '42

FEDERAL trade commission
Bromide backfire; five makers of headache remedies cited. Business Week p22+ O 31 '42
Cigarette companies accused by Federal trade commission. Ptr Ink 200:52+ Ag 14; 56-7 S 4 '42
Federal trade commission issues complaints. Ptr Ink 198:57 F 20 '42
Federal trade commission work, 1940-41. Oil Paint & Drug Rep 141:40 Ja 12 '42
F.T.C's busyness in 1941. Ptr Ink 198:28 Ja 16 '42
Guarantees in advertisements as viewed by Federal trade commission. I. W. Digges. Ptr Ink 199:41-2 Je 12 '42
Marmola loses. Business Week p62 My 9 '42
Marmola unfair sales ruling upheld. Oil Paint & Drug Rep 141:3+ My 4 '42
Medical book publishers restrained by F. T. C.; other cases. Ptr Ink 197:69 D 19 '41
New check list of FTC taboos; June, 1941 to March, 1942. Adv & Sell 35:28, 30+ Jl '42
What is unfair competition? 348 FTC orders answer. Sales Management 50:40+ F 1 '42

FEDERAL water and gas corporation
Annual report. Comm & Fin Chr 155:1677-8 Ap 27 '42

FEDERAL wholesale druggists association
Annual meeting, 27th, New York, Sept. 24-25. Oil Paint & Drug Rep 142:7+ O 5 '42

FEDERAL works agency
FWA decentralization. Arch Rec 91:18+ Mr '42
FWA will pool personnel to expedite housing program. Eng N 128:145 Ja 22 '42
FWA working toward centralized control. Eng N 128:76 Ja 15 '42
FWA's ABC's; how the government expects to protect its buildings. Business Week p70+ O 3 '42
Fleming made head of Federal works agency. Eng N 127:768 N 27 '41
Government ousts state from Oklahoma project; Federal agency takes over Grand River development. Elec W 116:1729 N 29 '41
Insurance personnel serving with FWA and USHA in Washington. East Underw 43:28 F 13 '42
New plans for FWA operations. Roads & Sts 85:83 Je '42
Prefabricated house program pushed into mass production; FWA will award contracts. Eng N 128:73-4 Ja 15 '42
Revamped Federal works agency will tackle war public works needs. Eng N 128:364 Mr 5 '42
Revitalized FWA organization speeds defense housing program contracts. Eng N 128:299 F 19 '42

See also
Public work reserve

FEDERATION, international. See International federation

FEDERATION of American societies for experimental biology
Abstracts of papers read before the Boston meeting. Science 95:sup8, 10-11 Ap 10 '42
Constituent societies. Science 95:244 Mr 6 '42
Will issue quarterly publication, named Federation proceedings. Science 94:432-3 N 7 '41

FEDERATION of architects, engineers, chemists and technicians
Congress of industrial organizations supports organization of Shell development and research workers. Science 94:579 D 19 '41
Contract between the Shell development company and the Congress of industrial organizations. D. E. Adelson. Science 95:648 Je 26 '42

FEDERATION of British industries
Federation of British industries cites problems of reconstruction. For Comm W 8:3+ Ag 8 '42

FEDERATION of mutual fire insurance companies
Annual convention, Los Angeles. Nat Underw 45:5+ N 6 '41

FEDERATION of paint and varnish production clubs
Annual meeting, 21st, Pittsburgh, Oct. 23-24. Oil Paint & Drug Rep 142:41-7, 47A-47B O 26; 7+ N 2 '42
Paint federation committees named. Oil Paint & Drug Rep 141:4 Mr 23 '42

FEDERATION of sewage works associations
Annual meeting, 2d, New York, Oct. 9-11. Eng N 127:527, 664-6 O 16, N 6 '41; Water Works & Sewerage 88:451-6, 514-18, 556-60 O-D '41
Meeting, Cleveland, Oct. 22-24. Eng N 129:602+ O 29 '42

FEEBLE-minded
In defense of the Kallikak study. H. H. Goddard. Science 95:574-6 Je 5 '42

FEED mechanism
Controlled in-feed mechanism for screw milling machine. diag Mach 48:222 Jl '42
Mechanism for feeding washer-shaped blanks to die with concave sides up. diags Mach 48:131-2 Ag '42
Overload feed-trip mechanism for lathes. diag Mach 49:163 O '42
Rapid-motion, short-stroke wire-feeding mechanism. L. Kasper. diags Mach 48:191-2 Ap '42
Rotary indexing press feed. il Steel 110:93+ Ap 20 '42
Some simple sorting and feeding mechanisms for the delivery of shells. W. M. Halliday. diags Mech Handling 29:112-14, 147-50 Je, Ag '42

FEED water
Acidity and alkalinity measurements. W. A. Taylor. il diag Power Pl Eng 46:64-6 Mr '42
Air-cooled condenser solves feedwater problem. J. C. Albright. il Power 86:654-5 S '42
Concrete tanks for boiler feed water. Am Concrete Inst J 14:62-3 S '42
Convenient colorimetric test for phosphates. G. A. Johns. il Power 86:112 F '42
Critical problems in the boiler feed water field. M. C. Schwartz. Am Water Works Assn J 34:1214-26 bibliog(69 titles, p 1224-6) Ag '42
Determination of tannin substances in boiler waters. A. A. Berk and W. C. Schroeder. bibliog Ind & Eng Chem Anal ed 14:456-9 Je 15 '42
Effect of gases dissolved in feedwater. A. Amorosi. Power Pl Eng 46:96 Ap '42
Elimination of carryover under steel mill operating conditions. H. M. Rivers and W. P. Hill. Blast F & Steel Pl 30:1151-4 O '42
Handbook of feedwater treatment; feedwater chemistry; data on chemical compounds, etc. producing reactions in water treatment. Power 85:884-96 D '41
Meat packing plant; boiler capacity and feed water problems. Power Pl Eng 46:107 Jl '42; Solutions. diag 46:101-2+ S '42
Science tackles embrittlement problem; abstracts of papers, American society of mechanical engineers. diags Power 85:978-9 Mid-D '41
Thermodynamics of boiler feeding. I. J. Karassik. 39p pa 50c Hydraulic inst, C. C. Rohrbach, sec, 90 West st, New York '42
What the operator wants to know. A. Iddles. il Power Pl Eng 46:61-3 S '42

See also
Feed water purification

Testing

Condensate sampler for conductivimetric checkup. il diag Instruments 15:235 Je '42
Conductivity cells and electrical measuring instruments. C. E. Kaufman. diags Am Soc T M Proc 41:1326-36; Discussion. 1337 '41

FEED water—Testing—*Continued*
Handbook of feedwater treatment; everyday control tests; meaning of water analysis. diags Power 85:894-5 D '41
New type of conductivity apparatus for use with boiler waters and steam samples. A. R. Mumford. il diags Am Soc T M Proc 41: 1314-25; Discussion. 1337 '41
See also
Feed water sampling

FEED water heaters
Comparison of power-plant heater arrangements. M. G. J. Boissevain and A. H. Shapiro. flow diag Mech Eng 64:784-6 N '42
Effective closed heaters for high cycle efficiency. R. A. Bowman. diags Power Pl Eng 46:58-9 Ja '42
How much power does a feed water heater save? W. F. Schaphorst. chart Am Gas J 157:24 S '42
How to choose among heater drain recovery systems. I. J. Karassik and W. P. Spining. diags Power 86:226-8 Ap '42
Make deaerating heaters suit plant cycle. W. P. Spining. diags Power 86:717-19, 786-8 O-N '42
Preheating of boiler feed water. G. M. Stearns. Oil & Gas J 41:70 S 10 '42

FEED water heating
Regenerative cycle; an efficiency basis having special reference to the number of feed water heating stages. H. S. Horsman. charts Inst Mech Eng J & Proc 146:Proc 5-19 N '41; Discussion. 147:Proc 110-24 Je '42

FEED water pumps. See Pumps, Feed water

FEED water purification
Blow down return or hot process system of softening. R. P. Donnelly. diag Chem & Ind 60:759-60 O 25 '41
Boiler compounds and boiler water conditioning. B. Levitt. il Chem Ind 50:656-8 My '42
Boiler feed and boiler water softening. H. K. Blanning and A. D. Rich. 3d ed 164p bibliog(p158-60) $3.50 Nickerson & Collins co, Chicago '42
Boiler feed water and the locomotive engineer. J. F. S. MacDonald. Engineer 173: 539-41 Je 26 '42
Conditioning feedwater for high-pressure boilers. A. C. Dresher. flow diag diags Power Pl Eng 46:70-2 S; 67-9 O '42
Critical problems in the boiler feed water field. M. C. Schwartz. Am Water Works Assn J 34:1214-26 bibliog(69 titles, p 1224-6) Ag '42
Deaeration increases pH. J. D. Yoder. Power 86:175-7 Mr '42
Filters are used to remove oil from boiler water. il Pet Eng 13:127 D '41
Handbook of feedwater treatment. diags Power 85:865-96 D '41
More steam; how? A. Iddles. il Elec W 117: 1690, 2082, 2250; 118:168, 312+ My 16, Je 13, 27, Jl 11, 25 '42
Phosphates in water conditioning. C. Schwartz and C. J. Munter. bibliog(97 references) Ind & Eng Chem 34:32-40 Ja '42
Removal of dissolved gases from boiler feed water. A. E. Kittredge. il Blast F & Steel Pl 29:[1130, 1132-3+], 1225-30+ N-D '41
Removal of oil from condensates. il Water Works & Sewerage 89:132 Mr '42
Salt-water evaporator system reduces boiler operation cost. W. A. Shellshear. il diag Oil & Gas J 41:118-19 Je 25 '42
Steam boiler protection; condensate freed from oil contamination. il Rayon 22:693 N '41
Stop corrosion by controlling pH. L. F. Wirth. il Power Pl Eng 46:57-8 Ag '42
Threshold treatment for scale prevention; calgon treatment. Engineering 152:467-8 D 12 '41
Treating boiler feedwater chemically. F. B. Horstmann. il Ry Mech Eng 116:458-61 N '42
Treatment of locomotive boiler feed water reduce demands for repair materials. W. A. Pownall. Ry Mech Eng 116:165-6 Ap '42
Treatment of rapidly changing feedwater; Filer fibre products co. K. Illig. flow diag map Power Pl Eng 46:91-2 N '42
Water problems in small power plants. E. P. Partridge and A. L. Soderberg. bibliog il Blast F & Steel Pl 30:664-70 Je '42; Abstract. Power 86:418 Je '42
Water treatment in large power stations. G. W. Hewson. Chem & Ind 60:764-5 O 25 '41
See also
Water softening

FEED water sampling
Effect of container on soluble silica content of water samples. C. A. Noll and J. J. Maguire. bibliog Ind & Eng Chem Anal ed 14:569-71 Jl 15 '42
Sampling of steam and boiler water; corrosion resistant metals in sampling equipment. A. R. Belyea and A. H. Moody. Am Soc T M Proc 41:1264-73; Discussion. il 1274-6 '41

FEEDERS
Controlled feeding improves the products. il Rock Prod 45:98-9 Ja '42
Dry feeders; some notes on design, maintenance and operation. F. J. Lammers. diags Water Works & Sewerage 89:sup139 Je '42
Non-flushing feeder for fine materials. il diag Rock Prod 45:24 Ag '42
Simple solution feeder for small flows. E. E. Wolfe. diag Water Works & Sewerage 89: 338 Ag '42
Vibrating feeders aid production; Stockton fire brick co. G. A. Page. il Brick & Clay Rec 100:40+ Mr '42

FEEDING and feeding stuffs
Cellulose fodder; Swedish war-time research. Chem Age (Lond) 46:242 My 9 '42
CCC wheat for feed. Comm & Fin Chr 155: 427 Ja 29 '42
Classes for farmer conducted by salesmen; McMillen feed mills. Ptr Ink 200:62+ S 25 '42
Earnings in the grain-mill products industries, 1941. F. Jones and B. L. Smith. Monthly Labor R 54:1006-16 Ap '42
Feed grains and storage problems. Barron's 22:13+ My 25 '42
Feed yeast and industrial alcohol from citrus-waste press juice. A. J. Nolte, H. W. von Loesecke and G. N. Pulley. il Ind & Eng Chem 34:670-3 Je '42
Feeding of cows controls vitamin A content of butter. S. M. Hauge. Food Ind 14:48-9+ F '42
Feeding stuffs rationing. Economist 142:199 F 7 '42
Full feedbox; oil meals vs. straight feed. Business Week p60 S 12 '42
Handbook of poultry nutrition. W. R. Ewing. 840p $7.50 William Raiford Ewing, Upper Montclair, N.J. '41
Large pig-food plant. il Elec R (Lond) 131: 113 Jl 24 '42
McMillen Mills first educates farmers; sales follow naturally. Sales Management 51:46+ O 20 '42
Milk fats from cows fed on fresh pasture and ensiled green fodder; estimation of vitamin-*A* activity. R. A. Morton, J. W. Lord and T. W. Goodwin. Soc Chem Ind J 60:310-13 D '41
Milk fats from cows fed on fresh pasture and on ensiled green fodder; observations on the component fatty acids. T. P. Hilditch and H. Jasperson. bibliog Soc Chem Ind J 60:305-10 D '41
Oxidative destruction of vitamin D. J. C. Fritz and others. bibliog Ind & Eng Chem 34:979-82 Ag '42
President says sub-parity grain sale is vital to the war time effort. Comm & Fin Chr 156:189 Jl 16 '42
Principles and practice of feeding farm animals. E. T. Halnan and F. H. Garner. 359p $4.50 Longmans '41
See also
Grasses
Pastures

FEEDING and feeding stuffs—*Continued*

Analysis

Rapid method for determining potassium in plant material; perchloric acid digestion and chloroplatinic acid precipitation. J. L. St John and M. C. Midgley. bibliog Ind & Eng Chem Anal ed 14:301-2 Ap 15 '42

See also

Carotene—Analysis

FEEDING floors, Concrete

Building feeding floors of concrete keeps Michigan contractor busy. il diag Concrete 50:16+ N '42

FEES

Levels torrid blast at examiners' fees. J. J. Holmes. Nat Underw 45:6+ D 11 '41; Same. Nat Underw (Life ed) 45:10 D 12 '41; Reply by C. A. Gough and rejoinder. Nat Underw 46:6-8 Ja 15 '42; Same. Nat Underw (Life ed) 46:2+ Ja 16 '42

See also

Banks and banking—Fees

Lawyers—Fees

Trust fees

FEHLING'S solution

Potentiometric study of the oxidation of phenylhydrazine by cupric ions, including the titration of Fehling's solution with phenylhydrazine. H. T. S. Britton and E. M. Clissold. Chem Soc J p528-31 Ag '42

FELDSPAR

Feldspar for extinguishing magnesium incendiary bombs. Franklin Inst J 234:298-9 S '42

Feldspar for extinguishing magnesium incendiary bombs; abstract. W. W. Rubey, M. Fleischer and J. J. Fahey. Chem & Met Eng 49:155-6 Ag '42

Feldspar in Illinois sands; a study of resources. H. B. Willman. 87p Illinois state geological survey, Urbana '42

Influence of fluxes of spodumene and feldspar mixtures on properties of chinaware bodies; semi-vitreous bodies and vitreous hotel chinaware bodies. H. G. Schurecht, J. K. Shapiro and Z. Zabawsky. diags Am Cer Soc J 25:321-6 Jl 1 '42

Marketing feldspar; with directory of producers and buyers. R. W. Metcalf. U S Bur Mines Information Circ 7184:1-13 '41

Mica-bearing pegmatites of New Hampshire; a preliminary report. J. C. Olson. maps U S Geol S Bul 931-P:363-403, pl 61-3; pa 25c Supt. of doc. '42

Mining and grinding feldspar. R. C. Moore. il Rock Prod 45:52-3 S '42

Use of the photronic cell and spectrophotometer for measuring translucency of whiteware. F. C. Arrance. il diags Am Cer Soc J 25:110-22 F 15 '42

Analysis

Calculation of mineralogical composition of feldspar by chemical analysis. E. W. Koenig. bibliog Am Cer Soc J 25:420-2 O 1 '42

Infrared as an analytical tool: dehydration of silicic acid derived from feldspars. E. W. Koenig. bibliog Am Cer Soc Bul 20:447-50 D '41

FELLOWSHIPS. See Scholarships and fellowships

FELT

Elimination of mercury hazard in the felt hat industry. G. D. Beal, R. R. McGregor and A. W. Harvey. bibliog il News Ed 19:1239-44 N 25 '41

Felt for industrial uses. diags Product Eng 13:159-60 Mr '42

Felt handbook; the story of the manufacture and uses of felts. 73p Felters co., 210 South st, Boston '41

Felt meets wartime demands. C. Carmichael. il diags Machine Design 14:65-8 O '42

Felt mountings for machines. Mech Eng 64: 307-8 Ap '42

Felt used for blackout. il Safety Eng 83:36 F '42

Field day for felt; use in many products of industry. il Business Week p66-8 My 9 '42

Rubber mouldings with felt cores. il Engineer 174:264 S 25 '42; Engineering 154:276 O 2 '42; Automobile Eng 32:396 O '42

Wool felt wicking plays important part in lubrication. E. F. Korbel and W. Colwell. Rayon 23:554-5 S '42

FELT, Roofing

Industrial heating; electrical applications. il Elec R (Lond) 129:391-4 O 17 '41

FELTS (paper making)

Cleaning methods for felts and wires. T. F. O'Brien. Paper Tr J 114:90-1 Je 25 '42; Same. Pulp & Pa of Can 43:760-1+ S '42

Felts and wire performance. E. A. Paterson. Paper Ind 24:593-5 S '42

Hazards at wet felt presses. G. J. Adams. il diags Paper Ind 23:1090-2 F '42

Use and care of paper mill felts; abstract. A. Perlick. Paper Ind 24:755-6 O '42

Used felts for war relief. Paper Tr J 115:22 Jl 16 '42

Wires and felts are better now; forty years of progress. H. S. Spencer. Pulp & Pa of Can 43:599-600 Jl '42

Standards

Felt standards extended. Paper Tr J 115:40 Jl 23 '42

FENCES

Imagination plus a little work makes attractive tile fences. il Brick & Clay Rec 101: 34 S '42

Sectional fences made from obsolete materials. J. C. Albright. il Pet Eng 13:80 S '42

FENCES, Wire. See Wire fences

FERGUSON, Harry

Mr Ford's only partner; Harry Ferguson and his tractor. por Fortune 25:66-7+ Ja '42

FERGUSON-SHERMAN manufacturing corporation

Mr Ford's only partner; Harry Ferguson and his tractor. il Fortune 25:66-7+ Ja '42

FERGUSSON, Alexander Cuthill, 1874-

Personalities in chemistry. A. D. McFadyen. por Chem Ind 50:486-7+ Ap '42

FERGUSSON, William B. B.

Portrait. Business Week p58 Jl 11 '42

FERMENTATION

Alcoholic fermentation of molasses; rapid continuous fermentation process. H. R. Bilford and others. il diag Ind & Eng Chem 34:1406-10 N '42

Butylene glycol from corn by fermentation. il Chem & Met Eng 49:95 O '42

Continuous aerobic process for distiller's yeast; engineering and design factors. E. D. Unger and others. il diags Ind & Eng Chem 34:1402-5 N '42

Corn sirups of high fermentability. R. W. Kerr, H. Meisel and N. Schink. Ind & Eng Chem 34:1232-4 O '42

Determination of thiamine in vegetables. J. C. Moyer and D. K. Tressler. bibliog Ind & Eng Chem Anal ed 14:788-90 O 15 '42

Determination of vitamin B_1 by yeast fermentation method; improvements related to use of sulfite cleavage and a new fermentometer. A. S. Schultz, L. Atkin and C. N. Frey. bibliog il Ind & Eng Chem Anal ed 14:35-9 Ja 15 '42

Ethyl alcohol from fermentation of lactose in whey. H. H. Browne. bibliog News Ed 19:1272+ N 25 '41

Fast conversion of distillery mash for use in a continuous process. F. H. Gallagher and others. il Ind & Eng Chem 34:1395-7 N '42

Laboratory water-bath for cooking, mashing, and fermentation studies. H. W. Coles and W. E. Tournay. il Ind & Eng Chem Anal ed 13:840 N 15 '41

Modified micro-fermentation method for the estimation of thiamine. E. S. Josephson and R. S. Harris. Ind & Eng Chem Anal ed 14:755-6 S 15 '42

Plant design in microbiological processes. S. A. Gregory. bibliog Inst Chem Eng Trans 18:131-5 '40

Scientific advances in fermentation. Chem Age (Lond) 46:187 Ap 11 '42

FERMENTATION—*Continued*

Studies on inhibition of fermentation by yeast maceration juice. R. Marcuse. Science 94:466-7 N 14 '41

Uses of microörganisms in the production of chemical products. C. G. Dunn. il J Chem Educ 19:387-92 Ag '42

See also

Alcohol—Manufacture
Enzymes
Wine
Yeasts

FERMENTS. See Enzymes

FERN society, American. See American fern society

FERRICYANIDES

Iodine reaction and a mercury reaction of photographic importance. A. Steigmann. Soc Chem Ind J 61:82-4 My '42

X-ray diffraction studies on heavy-metal iron-cyanides. H. B. Weiser, W. O. Milligan and J. B. Bates. bibliog diags J Phys Chem 46:99-111 Ja '42

FERRIES. See Ferryboats; Train ferries

FERRISUL

Review of Ferrisul applications in water and sewage treatment; abstract. F. K. Burr and J. J. McCarthy. Can Chem & Process Ind 26:618 O '42

FERRITIN

Ferritin and apoferritin. S. Granick and L. Michaelis. bibliog Science 95:439-40 Ap 24 '42

FERROALLOYS

Economy in the use of ferro-alloys. W. H. Hatfield. Engineer 174:151 Ag 21 '42

Electrothermal ferro-alloy production in Brazil. W. A. Darrah. Electrochem Soc Trans 81 (preprint 29):431-8 Ap '42; Excerpts. Chem & Met Eng 49:206-8 S '42

Ferro-alloy metals, 1941. F. Betz, jr. and others. Eng & Min J 143:47-9 F '42

Producing ferro-alloys and pig iron in Sweden; abstract. B. Kalling and A. Lindblad. Metals & Alloys 16:482+ S '42

See also

Iron alloys

Prices

Ferroalloys. Published in weekly numbers of Iron age

Prices, monthly, 1929-1941; tabulation. Iron Age 149:174 Ja 1 '42

Statistics

World production of pig iron and ferroalloys, by countries, 1929-1941; tabulation. Steel 110:349 Ja 5 '42

FERROCHROMIUM

Chrome ore, its conservation and substitution. G. E. Seil. Metal Prog 41:503-5 Ap '42

Ferro-alloys in Australia and notes on other metallurgical developments there. F. R. Kemmer. il Electrochem Soc Trans 81 (preprint 22):341-61 Ap '42

Use of Chrom-X in steel making. J. H. McDonald. bibliog il Metals & Alloys 15:249-53 F '42

FERROCYANIDES

X-ray diffraction studies on heavy-metal iron-cyanides. H. B. Weiser, W. O. Milligan and J. B. Bates. bibliog diags J Phys Chem 46:99-111 Ja '42

Analysis

Qualitative determination of ferrocyanide ion with quinone chloroimide. E. W. Blank. J Chem Educ 19:321 Jl '42

FERROMAGNETISM. See Magnetism

FERROMANGANESE

Domestic manganese from Butte helps in emergency; Anaconda's plant producing concentrates of ferro grade by flotation and nodulizing. J. B. Huttl. flowsheets Eng & Min J 143:56-8 Ja '42

Emergency conservation of manganese. il Metal Prog 40:888-93 D '41

Ferro-alloys in Australia and notes on other metallurgical developments there. F. R. Kemmer. il Electrochem Soc Trans 81 (preprint 22):341-61 Ap '42

Manganese investigations, Metallurgical division; pyrometallurgical studies of manganese ores; sintering or nodulizing of ferrograde manganese mill products and fine ores for smelting purposes. V. Miller and others. pl U S Bur Mines Rep of Invest 3625:1-14 '42

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:360 Ja 5 '42

Ten to twenty per cent reduction in manganese consumption possible. Steel 110:43-4+ Ja 12 '42

FERRON (plastic building material)

Utilization of pickle liquor. F. J. Van Antwerpen. il Ind & Eng Chem 34:1138-41 O '42

FERROPHOSPHORUS

Phosphatic fertilizer and iron from ferrophosphorus; abstract. G. L. Bridger and R. M. Neel. Can Chem & Process Ind 26:588 O '42

FERROSILICON

Ferro-alloys in Australia and notes on other metallurgical developments there. F. R. Kemmer. il Electrochem Soc Trans 81 (preprint 22):341-61 Ap '42

Magnesium from dolomite by ferrosilicon reduction. D. H. Killeffer. Chem & Eng N 20:369 Mr 25 '42; Same. Iron Age 149:55 Ap 9 '42; Same, with additional data. Rock Prod 45:65+ My '42

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:359 Ja 5 '42

Pidgeon ferro-silicon process for magnesium. F. A. Breyer. Chem & Met Eng 49:87 Ap '42

FERRUGINOL

Structure and configuration of resin acids; podocarpic acid and ferruginol. W. P. Campbell and D. Todd. bibliog Am Chem Soc J 64:928-35 Ap '42

FERRYBOATS

Gotham, electric ferryboat. il Marine Eng 46:145 N '41

Pocahontas, Virginia ferry steamer. il Marine Eng 46:115+ N '41

See also

Train ferries

FERTILIZATION of plants

Hereditary transmission of induced tetraploidy and compatibility in fertilization. A. B. Stout and C. Chandler. Science 96:257-8 S 11 '42

FERTILIZER factories

Equipment

Photoelectric cooling control; TVA fertilizer works. P. Ewald. il diag Electronics 14:55+ N '41

FERTILIZER industry

National fertilizer association 18th annual convention. Chem Ind 51:54-6, 105 Jl '42

Proceedings of the 17th annual convention of the National fertilizer association, White Sulphur Springs, W.Va., June 9-11, 1941. 109p Nat. fertilizer assn, Charles J. Brand, sec-treas, 616 Investment bldg, Washington, D.C. '41

See also

Fertilizers
Lime as fertilizer
Nitrates
Phosphates
Potash industry and trade
Sodium nitrate
also American cyanamid company

Finance

Investment audit of American agricultural chemical co. H. J. Nelson. Barron's 22:13 My 11 '42

SEC issues report on manufacturers of chemicals, fertilizers. Comm & Fin Chr 155:144 Ja 8 '42

Statistics

Fertilizer industry consumption, 1939. Oil Paint & Drug Rep 141:37D F 2 '42

Fertilizer materials. Published in weekly numbers of Oil, paint and drug reporter

FERTILIZER industry—Statistics—*Continued*
Fertilizers and materials, 1941. Chem & Met Eng 49:86-8 F '42

Canada

Products of the fertilizer manufacturing industry, 1939 and 1940; tabulation. For Comm W 6:18 Ap 4 '42
Value of materials used in fertilizer industry, 1939 and 1940. For Comm W 7:18-19 Ap 25 '42

Northwestern states

Northwestern phosphate survey group named. Oil Paint & Drug Rep 140:5+ N 17 '41

Sweden

Sweden's artificial-fertilizer problems. For Comm W 7:25 My 23 '42

United States

Between the lines; probable rationing in the fertilizer industry. Chem Ind 51:355 S '42
Fertilizer assn. considers crop goals and available materials. Oil Paint & Drug Rep 141:7+ Je 22 '42
Fertilizer industry adjustments during the emergency; committee named to work with government; abstract. T. E. Milliman. Oil Paint & Drug Rep 140:3+ N 24 '41
Fertilizer materials, 1941. Oil Paint & Drug Rep 141:74-5 Ja 12 '42
Fertilizer supplies for war crops tight. C. J. Brand. Comm & Fin Chr 155:445 Ja 29 '42
Fertilizer trust case settled. Oil Paint & Drug Rep 141:3+ Mr 30 '42; Comm & Fin Chr 155:1359 Ap 2 '42; Chem & Eng N 20:473 Ap 10 '42
For record crops; fertilizer men lay plans to supply a record demand for plant food. Business Week p30+ N 29 '41
Problems and prospects of fertilizer companies. Barron's 22:12 Ag 3 '42
See also
National fertilizer association

FERTILIZERS
Agricultural uses of coal and its products. H. G. Guy. Gas Age 90:56+ O 8 '42
Coal used in soil conditioner planned for eastern output. Coal Age 47:87-8 Ag '42
Crop goal depends on scientific farming. J. A. Miller. Comm & Fin Chr 156:21 Jl 2 '42
Fertilizer fee fought in AAA distribution. Oil Paint & Drug Rep 142:4+ S 28 '42
Fertilizer fright; farmers fear lack of nitrates in 1943. Business Week p52+ My 23 '42
Fertilizer hedge. Business Week p16 O 3 '42
Limited supply of fertilizers and insecticides points to crop shortages in Europe. Chem & Met Eng 49:122 Ag '42
Natural and artificial fertilizers. M. Copisarow. bibliog Chem & Ind 61:67-8 F 7 '42
Phosphate fixation in soil and its practical control. F. E. Bear and S. J. Toth. diags Ind & Eng Chem 34:49-52 Ja '42
Soil fertility and manuring in China. N. F. Chang and H. L. Richardson. Science 95:601-2 Je 12 '42
Soils and fertilizers. F. E. Bear. 3d ed 374p $3.50 Wiley '42
Sugar-beet fertilizers; tests carried out in Belgium. For Comm W 7:18 My 30 '42
Use of complete fertilizers in cultivation of microorganisms. V. L. Loosanoff and J. B. Engle. Science 95:487-8 My 8 '42
See also
Ammonium sulfate
Guano
Nitrates
Phosphates
Potash
Sewage sludge as fertilizer
Sodium nitrate

Analysis

Determination of K_2O in commercial fertilizers using 95 and 80 per cent alcohol and acid-alcohol. O. W. Ford and C. W. Hughes. bibliog Ind & Eng Chem Anal ed 14:217-18 Mr 15 '42

Bibliography

Bibliography of soil science, fertilizers and general agronomy, 1937-1940. 504p 25s Imperial bur. of soil science, Harpenden, Eng. '41

Prices

Fertilizer pricing method clarified. Oil Paint & Drug Rep 142:7+ S 28 '42
OPA sets maximum margins for dealers on 3 nitrogen materials. Oil Paint & Drug Rep 141:3+ Mr 23 '42

FEVER
Epidemic of acute respiratory infection of unusual type; Coast Guard training station at Manhattan Beach, Long Island. J. W. Oliphant and T. R. Dawber. Pub Health Rep 57:993-7 Jl 3 '42
See also
Malaria
Q fever
Relapsing fever
Rheumatic fever
Scarlet fever
Typhoid fever
Typhus fever
Yellow fever

FIBER, Vulcanized. See Vulcanized fiber

FIBER board
Absorptive form lining tests at Friant. il diag Eng N 127:884-6 D 18 '41
Fibre cans that hold oil developed by Macmillan petroleum corp. il Mod Packaging 16:52-3+ O '42
Investigation of fiber tile boards at National bureau of standards. Pulp & Pa of Can 42:783 D '41
See also
Wall board

FIBER board, Paper. See Paper board

FIBER pipes. See Pipes, Fiber

FIBERGLAS. See Glass fibers

FIBERGLAS fabrics. See Glass fabrics

FIBERS
Fiber composition of paper; revision of TAPPI standard T 401 m-39. bibliog Paper Tr J 115:23-7 Jl 9 '42
Fibers used in water practice; abstract. J. A. de Graaf. Am Water Works Assn J 33:2061-4 N '41
Intermolecular forces and mechanical behavior of high polymers. H. Mark. bibliog(73 references) Ind & Eng Chem 34:1343-8 N '42
Measurement and influence of fiber length. J. d'A. Clark. Paper Ind 24:637-8+ S '42
New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42; Excerpts. Paper Ind 24:640+ S '42
Orientation of micelles in soap fibers. S. Ross. bibliog J Phys Chem 46:414-17 Mr '42
See also
Agave fiber
Bast fibers
Cotton fibers
Flax
Glass fibers
Hemp
Jute
Paper
Rayon fibers
Silk
Textile fibers
Vulcanized fiber
Wool

FIBERS, Plastic coated. See Plastic coated fibers

FIBRINOGEN
Rheology of the blood; the effect of fibrinogen on the fluidity of blood plasma. E. C. Bingham and R. R. Roepke. bibliog Am Chem Soc J 64:1204-6 My '42

FIDELITY assurance association
Fidelity firm gets court OK to reorganize. Nat Underw (Life ed) 46:9 Ja 9 '42
Granted petition to reorganize. Comm & Fin Chr 155:189 Ja 13 '42
Rules Sims need not go to Detroit for arraignment. Nat Underw 46:4 Ja 22 '42

FIDELITY investment association. See Fidelity assurance association

FIELD, Marshall, 1893-
Battle for Chicago; Marshall Field's new Chicago Sun. por Fortune 25:72-7+ F '42

FIELD, Marshall, and company. See Marshall Field and company

FIELD glasses

Covering binocular bodies; vinyl resin fabric backed coating. W. R. Bailey. il Mod Plastics 20:50-3 O '42

Vinyl covering for instruments releases rubber. il Product Eng 13:633 N '42

FIELD museum of natural history, Chicago

Annual report of the director. C. C. Gregg. Science 95:629-31 Je 19 '42

Annual review of activities at Field museum for 1941. C. C. Gregg. Science 95:100-1 Ja 23 '42

Appointments and resignations at Field museum, Chicago. Science 96:313 O 2 '42

Presentation of a testimonial volume to Wilfred Hudson Osgood. Science 95:65 Ja 16 '42

Expeditions

Expeditions. Science 95:216 F 27 '42

Field Museum paleontological expedition to Honduras. P. O. McGrew. Science 96:85 Jl 24 '42

Fourth expedition to Guatemala. Science 95: 115 Ja 30 '42

FIELDNER, Arno Carl, 1881-

Melchett medal to A. C. Fieldner. por Heating-Piping 14:447 Jl '42

Sketch. por Am Cer Soc Bul 21:186-7 S 15 '42

FIFTH column

That fifth column. C. Benedict. il Mag of Wall St 69:683+ Ap 4 '42

FIGHTING, Hand-to-hand

Get tough! how to win in hand-to-hand fighting, as taught to the British commandos and the U.S. armed forces. W. E. Fairbairn. 120p pa $1 Appleton-Century '42

FIGS

Production of figs in Turkey, 1941. For Comm W 5:24 N 22 '41

Smyrna fig in California. W. L. Jepson. Science 95:19 Ja 2 '42

FILAMENTS

V^3I relation for vaporizing molybdenum. F. T. Worrell. bibliog diag Phys R 61:520-4 Ap 1 '42

FILBERTS

Filbert production in Turkey. For Comm W 9:25 O 10 '42

Nutcracker suite. il Mod Packaging 15:87-9 Je '42

Turkish filbert crop, 1941. For Comm W 5:28 D 13 '41

FILES and filing (documents, etc.)

Destruction of old records as a war-time measure. E. A. Davis. N A C A Bul 23: 1225-32 My 15 '42

Filing rules of the Library of Congress; a tentative interpretation. L. E. Tomlinson and L. R. Pitt, comps. 2d ed rev 37p bibliog(p32-4) pa $1 Laurence E. Tomlinson, Baylor univ. lib, Waco, Tex. '42

Keeping records and things; filing method for negatives. F. W. L. Tydeman. il Am Phot 36:36-7 Je '42

Presenting a system of filing publications for gas engineers. S. Shire. il Gas Age 89: 25-6+ Je 4 '42

Schedule for destruction of old records as used by the banks of Richmond, Va. Bankers Mo 59:17 Ja '42

System for the filing of reprints. L. S. McClung. Science 95:122-3 Ja 30 '42

System of filing reprints. W. R. Singleton. Science 95:274-5 Mr 13 '42

See also

Banks and banking—Records

Classification

Records, Visible

FILES and rasps

Conservation control cards for tools; machinists' files. Power Pl Eng 46:112 Jl '42

File hardness testing. J. H. Hruska. il Iron Age 150:35-9 S 24 '42

Machinists' files; how to obtain greater efficiency; guide for selection; reference book sheet. Am Mach 86:465 My 14 '42

FILING cabinets

Filing cabinets as hot-cupboards. il diag Elec R (Lond) 131:472 O 9 '42

FILIPINOS in the United States

Filipinos. G. Kirk. Ann Am Acad 223:45-8 S '42

FILLED gold. See Gold, Filled

FILLING

Building airports on New England's bogs. il diags Eng N 129:153-5 Jl 30 '42

Building an airport on a mud pie; Baltimore, Md. Pub Works 73:43 My '42

Contractor builds access road by management contract. il diags Roads & Sts 85: 44, 48, 50 Mr '42

Decomposition of land fill material; abstract. R. Eliassen. Water Works & Sewerage 88: 510 N '41

Load-bearing characteristics of landfills. R. Eliassen. il diag Eng N 129:369-71 S 10 '42

Materials handling for Santa Fe dam. il diags map Eng N 129:434-7 S 24 '42

Moving a million yards of wet clay. il Roads & Sts 85:66+ Mr '42

Mud Mountain dam on the White river, Washington, U.S.A. il Engineering 154:41-3, 50 Jl 17 '42

Oil used in testing earthfill density; Green Mountain Dam embankment. S. Poe. il Eng N 127:814-16 D 4 '41

Penetrometer control of rolled fill. F. H. Kellogg. il Eng N 129:550-4 O 22 '42

Processing plant for rock-earth dam; Green Mountain dam in Colorado. il diags Eng N 128:188-91 Ja 29 '42

Relieving platform bulkhead for New York's East River drive. L. C. Hammond. il diags Civil Eng 12:251-4 My '42

Removing mud pockets from filled ground. il Eng N 129:423 S 24 '42

Resistance of soft fill to static wheel loads. W. W. Pagon. il map Am Soc C E Proc 68:237-54 F '42

Sanitary land fills in New York city. R. Eliassen and A. J. Lizee. il Civil Eng 12: 483-6 S '42

Soil compaction methods produce dense fills on line change; 20-mile diversion on the Santa Fe. il map Ry Age 111:1040-5 D 20 '41

Solving quantities in excavation and fill. B. F. Powell. Eng N 129:558-9 O 22 '42

War conditions favor landfill refuse disposal. R. Eliassen. il Eng N 128:912-14 Je 4 '42

FILLING machines

Controls for packaging machines; milk carton filler; abstract. V. T. Grover. diag Iron Age 149:59-60 Ap 16 '42

Packing machine for powdered materials. il Engineering 152:507 D 26 '41

FILLING materials

Fillers; swelling properties and structure. R. J. Kent and J. Seiberlich. il Mod Plastics 19:65-9+ Je '42

High impact molding compounds; comparison of cotton cord, fabric and wood flour fillers. C. H. Whitlock and R. U. Haslanger. Mod Plastics 19:70-1 Je '42

Mineral fillers for plastics. C. L. Harness. Rock Prod 45:88 Je '42

Mineralite, a filler for plastics. S. Wein. Mod Plastics 19:66+ Mr '42

Walnut shell flour. E. F. Lougee. il Mod Plastics 19:35-7+ F '42

See also

Paper making—Fillers

Plastic materials—Fillers

Slate flour

FILM floater insurance. See Insurance, Moving picture negative film

FILM slides. See Slide films

FILM transfer in extraction. See Extraction processes—Tables, calculations, etc.

FILMS

Amontons' law, traces of frictional contact, and experiments on adhesion. R. Schnurmann. bibliog il J Ap Phys 13:235-45 Ap '42

FILMS—*Continued*

Determination of the drying rates of thin films. G. Rieger and C. S. Grove, jr. bibliog il diags Ind & Eng Chem Anal ed 14:326-33 Ap 15 '42

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Effect of pigments on oleoresinous film structure. R. C. Ernst and G. R. Eudaley. bibliog Paint Oil & Chem R 104:102-3, 114-15, 118-19 N 5; 18, 20 N 19 '42

Effect of ultraviolet light on polycyclic hydrocarbons in sterol surface film systems. W. W. Davis, M. E. Krahl and G. H. A. Clowes. Science 94:519-20 N 28 '41

Electron diffraction studies on thin films; powder patterns containing anomalies produced by secondary scattering. L. H. Germer. bibliog il Phys R 61:309-12 Mr 1 '42

Electrostatic effect and the heat transmission of a tube. M. R. Wahlert and H. O. Croft. bibliog il diags Iowa Univ Studies in Eng (Iowa City) Bul 25:1-34 '41 (pa 40c)

Equilibria of two-dimensional systems. H. H. Rowley and W. B. Innes. bibliog diag J Phys Chem 46:537-48 My '42

Film balance as an analytical tool for biological and food research. G. E. Boyd and W. D. Harkins. bibliog il diags Ind & Eng Chem Anal ed 14:496-502 Je 15 '42

Films of polymer resins. S. Voyutski and E. Dzyadel. Chem Age (Lond) 45:302 D 13 '41

Films of thickness tenth length of yellow light waves found best for showing metal details in electron microscope. Blast F & Steel Pl 30:876 Ag '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

Method for investigating the thickness, chemical properties, and surface structure of thin biological objects. D. F. Waugh. bibliog il diag Opt Soc Am J 32:405-502 S '42

Molecular films, the cyclotron and the new biology. H. S. Taylor, E. O. Lawrence and I. Langmuir. 95p $1.25 Rutgers univ. press, New Brunswick, N.J. '42

Monomolecular film demonstrations. A. L. Kuehner. J Chem Educ 19:27-8 Ja '42

Nature of a polished surface. L. Motz. Opt Soc Am J 32:147-8 Mr '42

New chemical method of reducing the reflectance of glass. F. H. Nicoll. bibliog il RCA R 6:287-301 Ja '42

New dichroic reflector and its application to protocell monitoring systems. G. L. Dimmick. diags Soc Motion Picture Eng J 38:36-44 Ja '42

New mathematical method for the solution of film lubrication problems. D. G. Christopherson. bibliog Inst Mech Eng J & Proc 146:Proc 126-35 Ja '42

Oxidation of asphalt in thin films. A. R. Ebberts. bibliog il Ind & Eng Chem 34:1048-51 S '42

Plastic films 0.000,002 in. thick for electron microscope; abstract. V. J. Schaefer and D. Harker. Iron Age 150:64 Ag 13 '42

Preparation of silver chloride films. P. Fugassi and D. S. McKinney. il R Sci Instr 13:335-7 Ag '42

Pressure-area-temperature and energy relations of monolayers of octadecanenitrile. L. E. Copeland and W. D. Harkins. Am Chem Soc J 64:1600-3 Jl '42

Progress in engineering knowledge during 1941; surface chemistry. P. L. Alger. bibliog il Gen Elec R 45:82-3 F '42

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

Spreading of oils on water; spreading pressures and the Gibbs adsorption relation. W. A. Zisman. bibliog J Chem Phys 9:789-93 N '41

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine acetates; the surface tension of aqueous solutions of dodecylamine acetate. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:2067-70 S '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine hydrochlorides. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:498-503 Mr '42

Superliquid in two dimensions and a first-order change in a condensed monolayer. L. E. Copeland, W. D. Harkins and G. E. Boyd. bibliog J Chem Phys 10:357-65 Je '42

Superliquid in two dimensions and a first-order change in a condensed monolayer. W. D. Harkins and L. E. Copeland. J Chem Phys 10:272-86 My '42

Surface films of lupane derivatives. P. Bilham, E. R. H. Jones and R. J. Meakins. Chem Soc J p761-6 N '41

Surface fugacity and the heat of free expansion on a surface for a single-component insoluble film. W. B. Innes and H. H. Rowley. J Phys Chem 46:548-54 My '42

Surface replicas for use in the electron microscope. V. J. Schaefer and D. Harker. il J Ap Phys 13:427-33 Jl '42

Thin films of synthetic resins find varied applications in scientific research. V. J. Schaefer. Sci Am 165:317 D '41

See also

Lubrication and lubricants

Surface phenomena

FILMS, Metallic

Anodic coatings on aluminum, their brittleness. H. N. Hill and R. B. Mason. il Metals & Alloys 15:972-5 Je '42

Electrostatic voltmeter as a d.c./a.c. transfer instrument; errors appear to be due to semi-conducting films on surfaces of elements; believed to be absent in voltmeters with working surfaces of freshly-cleaned platinum. R. S. J. Spilsbury and A. Felton. diags Inst E E J 89 pt 2:129-32; Discussion. 133-6 Ap '42

Elimination of oxide films on ferrous materials by heating in vacuum. V. C. F. Holm. bibliog pls J Research Nat Bur Stand 28:569-79 My '42

Eye protection for arc welders; metallic films on lenses. J. A. Neuman. Iron Age 149:56 Ap 2 '42

Far ultraviolet reflectivities of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42

How to get the best results with electron microscopes; films five-hundred thousandth of an inch thick for revealing details of metal surfaces. Comp Air M 47:6822 Ag '42

Order in the alloy Cu_3Au. L. H. Germer, F. E. Haworth and J. J. Lander. il Phys R 61:93 Ja 1 '42

Order in the alloy Cu_3Au; electron diffraction by transmission method used to investigate superstructure. L. H. Germer, F. E. Haworth and J. J. Lander. il diags Phys R 61:614-26 My 1 '42

Rate of film formation on metals. B. Lustman. bibliog il Electrochem Soc Trans 81 (preprint 8):75-90 Ap '42

Rate of oxidation of typical nonferrous metals as determined by interference colors of oxide films. D. J. McAdam, jr. and F. W. Geil. J Research Nat Bur Stand 28:593-635 bibliog(p612-13) My '42

Ross filter foils by evaporation. J. C. Clark and R. H. Esling. il R Sci Instr 13:383-6 S '42

Snowflakes and metallography; method of making snow crystal replicas used for making films for electron microscope studies. il Mech Eng 64:560-1 Jl '42

Some observations on the formation and stability of oxide films. E. A. Gulbransen. bibliog Electrochem Soc Trans 82 (preprint 19):209-21 O '42

FILMS, Metallic—*Continued*

Structure of evaporated films of chromium and aluminum on glass. A. R. Oliver. bibliog Phys R 61:313-14 Mr 1 '42

Studies in superconductivity; evaporated lead films. W. F. Brucksch, jr. and W. T. Ziegler. bibliog Phys R 62:348-53 O 1 '42

Theory of oxidation and tarnishing of metals; growth laws under more general conditions. O. H. Hamilton and H. A. Miley. bibliog Electrochem Soc Trans 81 (preprint 31):445-53 Ap '42

Thin oxide films on iron; vacuum micro-balance technic. E. A. Gulbransen. bibliog diags Electrochem Soc Trans 81 (preprint 15):187-97 Ap '42

X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research Nat Bur Stand 29:177-81, pl 1-4 Ag '42

See also
Silvering

FILMS, Paint. See Paint

FILMS, Photographic. See Microfilms; Moving picture films; Photography—Films; Slide films

FILMS, X ray. See X ray films

FILTER-CEL

Determination of moisture in sugar products; use of Filter-Cel for corn sirup. J. E. Cleland and W. R. Fetzer. bibliog il diags Ind & Eng Chem Anal ed 13:858-60 D 15 '41

FILTER paper

Determination of moisture in sugar products; filter paper method for corn sirup. J. W. Evans and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 13:855-7 D 15 '41

FILTER presses

Control of cupola air improves filter press castings. W. H. O'Connell. il diags Comp Air M 47:6641-3 Ja '42

Improved filter press material; Keebush plates and valves. il Chem Age (Lond) 46:143 Mr 14 '42

FILTER sand. See Sand, Filter

FILTERS, Air. See Air filters

FILTERS, Electric. See Electric filters

FILTERS, Light. See Light filters

FILTERS and filtration

Clogging hazards in underdrains. Eng N 128:400-1, 909 Mr 12, Je 4 '42

Concentrating filter for large water samples. B. R. Ford and M. F. Gunderson. il diags Am Water Works Assn J 34:585-8 Ap '42

Effect of break-point chlorination on filter runs and algae growths; some experiences at Fredericksburg, Va. A. E. Wilson, jr. Water Works & Sewerage 89:129-30 Mr '42

Filter backwash; sand expansion and velocity. R. Hulbert. Am Water Works Assn J 34:1045-50 Jl '42

Filter maintenance at Griffin, Ga.; abstract and discussion. L. R. Simonton. Water Works & Sewerage 88:494-5 N '41

Filters are used to remove oil from boiler water. il Pet Eng 13:127 D '41

Fundamentals of a properly designed and properly operating filter. C. J. Lauter. Am Water Works Assn J 34:1051-4 Jl '42

Handbook of feedwater treatment; filtration. diags Power 85:868-9 D '41

Handy job-made filtering unit for make-up water. E. Sterrett. il Eng N 129:376-7 S 10 '42

Influence of plant design and construction on water filtration problems. H. F. Wagner. il Water & Sewage 80:40-1, 63-4 Ap '42

Iron removal in western Pennsylvania. L. S. Morgan and C. H. Young. Am Water Works Assn J 33:1929-44 N '41

Operation of water treatment plants; second edition, revised; filters and their operation. W. A. Hardenbergh and others. il diags Pub Works 73:38-46 Je '42

Perforated-pipe underdrains for rapid sand filters. E. A. Schmitt and P. O. Macqueen. Am Water Works Assn J 34:857-75; Discussion. E. A. Hardin. 875-6 Je '42; Correction. 34:1414 S '42

Sea sponges as filter medium; abstract. A. F. B. Haylett. Water & Sewage 80:54 O '42

Some observations on filters. F. R. Georgia. il Am Water Works Assn J 34:1055-62 Jl '42

South District filtration project, Chicago; features of the rapid sand filters. il diag Eng N 128:1011-13 Je 18 '42

Specifications for filtering materials; committee progress report, with appendix, Abstracts on filtering material, by H. E. Hudson, jr. Am Water Works Assn J 33:2021-34 bibliog(40 titles, p2033-4) N '41

See also
Filtration plants
Sewage disposal—Filtration
Water purification
Waterworks

Cleaning

Cleaning encrusted pipe lines and vacuum filters by use of inhibited muriatic acid. K. L. Mick. Water Works & Sewerage 89:314 Jl '42

Filter maintenance at the Griffin, Ga. water works. L. R. Simonton. il Pub Works 73:28+ My '42

Maintenance of filter beds and control equipment; discussion. Water & Sewage 80:88, 90-2 Ap '42

Maintenance of filter beds and control equipment; discussion. Water Works & Sewerage 89:259 Je '42

Vacuum filters

Cleaning encrusted pipe lines and vacuum filters by use of inhibited muriatic acid. K. L. Mick. Water Works & Sewerage 89:314 Jl '42

Vacuum filter dressing rig. W. D. Sheets. diag Water Works & Sewerage 89:sup242 Je '42

FILTERS and filtration (technical chemistry)

Apparatus for continuous filtration in blood and plasma transfusions. H. Siedentopf and M. Levine. diag Science 96:303 S 25 '42

Apparatus for crystallization and filtration at low temperatures. F. W. Quackenbush and H. Steenbock. diags Ind & Eng Chem Anal ed 14:736-7 S 15 '42

Apparatus for semimicro filtration. J. Cornog and F. O. Krause. J Chem Educ 19:217 My '42

Automatic and continuous filtration in sugar refining. A. Wright. il Ind & Eng Chem 34:425-9 Ap '42

Calcium phosphate in the filtration of sugar liquors. A. B. Cummins. il Ind & Eng Chem 34:398-402 Ap '42

Clarifying efficiency of diatomaceous filter aids. A. B. Cummins. il Ind & Eng Chem 34:403-11 Ap '42

Decolorizing filter aids; Kyrite and Dicalite M-23. R. Boyd and R. W. Schmidt. il Ind & Eng Chem 34:744-8 Je '42

Diatomaceous silica filter-aid clarification. A. S. Elsenbast and D. C. Morris. il Ind & Eng Chem 34:412-18 Ap '42

Effect of air on color of sugar liquors. C. A. Frankenhoff. Ind & Eng Chem 34:987-8 Ag '42

Filtering cyanide slimes. E. C. Bitzer. diags Eng & Min J 143:60-3 Je '42

Filtration of granular materials; design of the top-feed filter. A. J. Barnebl. il diags Chem & Met Eng 48:80-4+ Jl '41; Abstract. Chem Age (Lond) 45:277-8 N 29 '41

Filtration of oils by the use of prepared magnesium silicate. H. E. Bierce. il Oil & Gas J 41:47-8 S 10 '42

Filtration of phosphate-defecated affination sirup. H. I. Knowles. flow sheet Ind & Eng Chem 34:422-4 Ap '42

Filtration of sugar solutions; some factors determined by laboratory test procedures. A. B. Cummins and L. E. Weymouth. il diags Ind & Eng Chem 34:392-8 Ap '42

FILTERS and filtration (technical chemistry) —*Continued*

Modern filtration practice for the varnish, resin and lacquer maker. A. C. Kracklauer. Paint Oil & Chem R 104:7-8 F 26 '42

Philips magnetic filter unit for use in settling tanks. il diag Electrician 129:335 S 25 '42; Engineer 174:284 O 2 '42

Plastics competition award to Oliver united filters inc.; acid pump impeller and filter drum segment. il Mod Plastics 19:112-13 N '41

Powdered metal product used for filtration and flow control; Porex. il Mach 48:155 F '42

Pressure filtration of phosphoric-acid- and lime-defecated refinery and whole raw sugar liquors. C. A. Frankenhoff. il Ind & Eng Chem 34:742-4 Je '42

Processing equipment for whisky filtration. R. O. Schmitt, P. J. Kolachov and H. F. Willkie. flow diag il Ind & Eng Chem 34: 1135-8 O '42

Removal of oil from condensates. il Water Works & Sewerage 89:132 Mr '42

Reporting what's new in equipment. il Chem & Met Eng 48:108-9 N '41

Save fuel by using slurry filters; Medusa portland cement co. il Rock Prod 45:43-4 Ag '42

Two types of filtration are combined in Valvoline plant. J. P. O'Donnell. il diag Oil & Gas J 40:40-1 D 18 '41

See also

Air filters
Filter-Cel
Filter paper
Oil filters

FILTRATION plants

Influence of plant design and construction on water-filtration problems. H. F. Wagner. il Water & Sewage 80:40-1, 63-4 Ap '42; Abstract. Water Works & Sewerage 89:255-6 Je '42

New water supply system of Muskegon Heights, Michigan. G. F. Liddle. il Pub Works 73:16-17 My '42

Smallest Morse filter plant ever built. il Water Works & Sewerage 89:228 My '42

Some observations on filters. F. R. Georgia. il Am Water Works Assn J 34:1055-62 Jl '42

South district filtration plant of the city of Chicago. F. G. Gordon and others. Am Water Works Assn J 34:1381-1404 S '42

South district filtration project, Chicago; design, problems and solutions. il plans Eng N 128:999-1005 Je 18 '42

Special features of water-filtration plants in Colombia. C. S. de Santamaria. il Water & Sewage 80:22-3 F '42

Unusually elaborate water treatment; softening and filtration plant serving Los Angeles area. il Water & Sewage 80:11+ Ja '42

See also

Filters and filtration
Sewage disposal—Filtration
Water purification
Waterworks

Equipment

Construction of a 9-ft Venturi tube. il diags Engineering 153:221-2, 230 Mr 20 '42

Design of the chemical building of the South district filtration plant in Chicago. P. Hansen. Am Water Works Assn J 34:1390-6 S '42

Installation of Palmer filter bed agitators; with cost data. S. H. Mitchell. il Water Works & Sewerage 89:271-2 Je '42

Waste

Disposal of filter wash water. Pub Works 72: 18 D '41

FINANCE

Easy arms credit; wide variety of financing aids. Business Week p75-6 Ap 4 '42

Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42

Keys to business cash; a guide to methods of new financing. W. H. Hillyer. 104p $1 Harper '42

Towards the financial engineer. W. F. Kissack. Engineer 174:12-13 Jl 3 '42

See also

Auditing
Automobile industry and trade—Finance
Bankruptcy
Banks and banking
Banks and banking—Finance
Bonds
Budget
Building—Finance
Capital
Collecting of accounts
Commerce
Corporations—Finance
Credit
Debts, Public
Electric utilities—Finance
Finance companies
Financial statements
Foreign exchange
Gold as money
Holding companies
Housing finance
Importing—Finance
Income
Income tax
Inflation (finance)
Insurance
Interest
Investment trusts
Investments
Loans, Bank
Mining industry and finance
Money
Motor bus lines—Finance
Municipal finance
Petroleum industry and trade—Finance
Prices
Profit
Public utilities—Finance
Public works—Finance
Railroads—Finance
Roads—Finance
Securities
Speculation
State finance
Stock exchange
Stocks
Surplus
Tariff
Taxation
Trusts, Industrial

Bibliography

Studies in economy and efficiency in government. 89p Tax foundation, New York '41

Algeria

New Algerian conversion loan. For Comm W 8:11 Ag 1 '42

Argentina

Argentina utilities frozen funds in Great Britain to reduce sterling debt. For Comm W 6:6 Ap 4 '42

Australia

Australian finances in 1941-1942 fiscal year. Comm & Fin Chr 156:289 Jl 23 '42

See also

Budget—Australia

Brazil

See also

Bonds, Government—Brazil

California

See also

Taxation—California

Canada

Canada's economic policy in war. G. F. Towers. Bankers M 145:211-16 S '42; Abstract. Comm & Fin Chr 155:2209+ Je 11 '42

Canada's financial aid to Britain. Economist 141:538 N 1 '41

Canada's war effort. Economist 141:585-6 N 15 '41

Canadian wartime economic policies. Nat City Bank p20-3 F '42

Estimating Canada's war effort. Economist 142:466-7 Ap 4 '42

Finance in 1941. Bankers M 144:241-2 Mr '42

From debtor to creditor; financial relations between the United Kingdom and Canada. Economist 142:570-1 Ap 25 '42

How Canada finances victory. C. M. Short. Banking 34:28+ Ja '42

How Canada sells its war loans. F. H. McConnell. Barron's 22:18 F 16 '42

Improved outlook for Canadian securities. F. J. McDiarmid. Barron's 22:18 N 9 '42

Shadow of coming events; Canada shows the way in transition to full war production and controls. V. L. Horoth. il Mag of Wall St 69:134-6+ N 15 '41

War finance in Canada. G. W. Spinney. il Banking 35:26-8 S '42; Same. Comm & Fin Chr 156:1082-3 S 24 '42; Excerpts. Trusts & Estates 75:351 O '42

FINANCE—Canada—*Continued*

War finance in three countries. Nat City Bank p32-5 Mr '42

Chile

Public credit commission. For Comm W 8:14 S 5 '42

China

China aid to be reserve for notes and bond backing. Comm & Fin Chr 155:1348 Ap 2 '42
Chinese financial reforms. Economist 141:720-1 D 13 '41
Congress votes China loan; FDR pledges aid. Comm & Fin Chr 155:671 F 12 '42
Text of U.S.-China financial aid pact. Comm & Fin Chr 155:1545 Ap 16 '42
U.S.-China accord on aid. Comm & Fin Chr 155:1260 Mr 26 '42
United States-Chinese agreement concerning economic and financial aid. Int Labour R 45:534-5 My '42

Colombia

Coffee, and the future of Colombian bonds. F. M. Stern. Barron's 21:8 D 29 '41

Cuba

Exchange and finance. For Comm W 6:10 Mr 7 '42
Export-import bank loan of $25,000,000. For Comm W 5:16 D 13 '41
Government finances; 1942 budget. For Comm W 5:15 D 6 '41
Report to the Cuban government of the American technical mission to Cuba. Fed Res Bul 30:774-801 Ag '42

Europe

Financial situation abroad. Published in monthly numbers of Bankers magazine
German Europe; financial outlook. Economist 142:359 Mr 14 '42

France

Behind the Maginot line; economic and political lessons from the experience of France. A. Istel. Trusts & Estates 73:475-80 N '41
Inflation in France? Economist 143:237-8 Ag 22 '42
Vichy's finances in 1941. Economist 142:71-2 Ja 17 '42

Germany

Capital markets. Economist 141:566 N 8 '41
Financial front; German acquisition of capital interests. Economist 142:758 My 30 '42
Financial problems. Economist 142:189-90 F 7 '42
Financing arms production. Economist 143:306 S 5 '42
Frozen Reichsmark balances. Economist 143:83 Jl 18 '42
German Europe; war finance. Economist 142:610 My 2 '42
German experience with stocks and inflation. L. A. Hahn and J. Soudek. Bankers M 145:13-14, 16-21 Jl '42
Germany diverts excess purchasing power to war financing. For Comm W 7:6-7 My 2 '42
Steering purchasing power. Economist 141:654 N 29 '41
Vagrant money. Economist 143:48-9 Jl 11 '42

Great Britain

British white paper on war finance; text. Fed Res Bul 28:539-49 Je '42
Economic future of Britain. V. L. Horoth. Mag of Wall St 71:109-11+ N 14 '42
Empire balances in London. Economist 142:14-15 Ja 3 '42
Factors influencing the general movement of prices in Great Britain. E. R. Hawkins. Survey of Cur Business 21:11-18 D '41
Finance in war. Economist 142:491+ Ap 11 '42
Financial strategy. Economist 143:440-1 O 10 '42
Gold and dollar resources of the United Kingdom. Fed Res Bul 27:1222-5 D '41
Inequities under vesting. Economist 141:539 N 1 '41
Millions without end. Economist 142:456-7 Ap 4 '42
National discount company ordinary annual general meeting, London. Economist 142:164 Ja 31 '42
Overseas disinvestment; extra-budgetary funds. Economist 142:543 Ap 18 '42
War finance in three countries. Nat City Bank p32-5 Mr '42
War finance; Sir Kingsley Wood's budget speech and documents issued with it. Economist 142:528-32 Ap 18 '42
Wartime developments in British finance. For Comm W 6:6-7+ Ja 3 '42

See also

Bonds, Government—Great Britain
Budget—Great Britain
Taxation—Great Britain

Haiti

Government revenues and expenditures, 1940 and 1941. For Comm W 6:18 Mr 28 '42

Hawaiian Islands

Rules on Hawaii safe deposit boxes. Comm & Fin Chr 156:884 S 10 '42

Ireland

Eire's financial position. Economist 142:650 My 9 '42

Japan

Japan fights against own welfare. J. C. Grew. Comm & Fin Chr 156:1530-1+ O 29 '42

Latin America

Latin America faces new economic problems. Nat City Bank p77-81 Jl '42

Michigan

Financing government in Michigan. R. S. Ford and A. Waxman. 213p bibliog(p204-9) pa $1 Univ. of Michigan press, Ann Arbor '42
Michigan finances. Business Week p75 F 21 '42

Netherlands

Nazi juggling with Dutch finances. For Comm W 8:18 S 5 '42

New Jersey

Improved fiscal structure for New Jersey: the foundations; a report by the Princeton survey of New Jersey finance. 56p Princeton univ. press '41

New York (city)

N.Y. city announces financing. Comm & Fin Chr 155:208-9 Ja 15 '42

New York (state)

N.Y. state finances assembled for quick reference. Comm & Fin Chr 156:1624 N 5 '42
N.Y. state fiscal inquiry board bill signed. Comm & Fin Chr 155:2026 My 28 '42
N.Y. state streamlined financial report issued. Comm & Fin Chr 156:448 Ag 6 '42

New Zealand

New Zealand's war finances. Economist 143:143 Ag 1 '42

Oklahoma

Oklahoma financial survey prepared. Comm & Fin Chr 154:1648 D 25 '41

Palestine

1941-42 estimates show increase in war expenditure. For Comm W 7:16-17 Ap 18 '42

Panama

Government finances in 1941. For Comm W 6:19 Mr 28 '42

Paraguay

Loan of Brazilian government to Paraguay. For Comm W 9:21 O 3 '42

Portugal

Portugal's finances. Economist 143:207 Ag 15 '42

FINANCE—*Continued*

Thailand

Thailand joins the yen bloc. Economist 142: 46-7 Ja 10 '42

Trinidad

Trinidad government finances. For Comm W 5:14 D 20 '41

United States

American public finance. W. J. Shultz. 3d ed 874p bibliog(p767-89) $6; school ed $4.50 Prentice-Hall '42
Anatomy of public spending. R. M. Bissell, jr. Fortune 25:94-5+ My; 104-5+ Je '42
Ask Treasury outline for deficit financing. A. M. Massie. Comm & Fin Chr 155:2126 Je 4 '42
Bank credit and war finance. Fed Res Bul 28:525-31 Je '42
Bank credit, war finance, and savings. Fed Res Bul 28:869-77 S '42
Banks and the war effort. F. L. Garcia. Bankers M 144:119-26 F '42
Colonial America; a financial experiment. R. A. Foulke. il Dun's R 50:13-18, 42-4 Mr '42
Coming drive for devaluation; inflation and the government debt burden. W. E. Spahr. Trusts & Estates 73:489-91 N '41
Constructive banking cooperation with government financing; proceedings of the fourth annual Michigan bankers association study conference, Ann Arbor, Dec. 4-5, 1941. R. G. Rodkey, ed. 67p pa $1 Univ. of Michigan, School of business administration, Bur. of business research, Ann Arbor '42
Curtailment of non-defense expenditures. H. P. Seidemann. 54p pa 25c Brookings institution, Washington, D.C. '41
Everybody's billions; our national debt. Bankers M 144:285-98 Ap '42
Evolution of financing institutions from 1841. R. A. Foulke. il Dun's R 50:13-17+ Je '42
Federal finance, after 1945. J. S. Parker. Trusts & Estates 73:492-3 N '41
Federal finance, 1941. Survey of Cur Business 22:54-60 F '42
Financial effects of the war. Bankers M 144: 84 Ja '42
Financial institutions, 1776-1841. R. A. Foulke. il Dun's R 50:18-22+ Ap '42
Financing the defense program. E. G. Daniel. 32p Bur. of business research, Univ. of Oregon, Eugene '41
Financing the war. R. Warren and others. 357p bibliog(p344-52) $2.50 Tax inst, Philadelphia '42
Financing total war. R. M. Haig. 32p pa 25c Columbia univ. press '42
Fiscal policy. Survey of Cur Business 22:4-8+ My '42
Fiscal problem. Nat City Bank p17-20 F '42
From wampum to Continental currency; early financing in the new American world. R. A. Foulke. il Dun's R 50:13-18+ F '42
Government receipts and expenditures for December, 1941 and 1940, and six months of the fiscal years 1941-42 and 1940-41. Comm & Fin Chr 155:302-3 Ja 20 '42 [cont monthly]
Heavy taxes, inflation, or rationing choice of American people; implications of federal fiscal policy. H. Jones. Comm & Fin Chr 154:1355 D 4 '41
How the Nation will spend its income; government will control consumers' pocketbook in first year of managed economy. J. W. Hazard. Barron's 22:20 Je 15 '42
How we'll raise $75 billion in 1942-43. Barron's 22:1 S 21 '42
Index-digest of published decisions of the comptroller general of the United States with statutes, decisions, and opinions cited therein, 1929-1940. 1078p General accounting office, Office of the comptroller general of the U.S., Washington; $3.25 Supt. of doc. '41
Inflation control and the general ceiling plan. J. Backman. Trusts & Estates 74:455-61 My '42
Interest rates in the managed economy. M. Palyi. J Land & Pub Util Econ 18:28-35 F '42
Lost $40 billion; more flowing into high salaries, but most of pressure on prices is coming from those with $5,000 and less. Fortune 26:74-9 Ag '42
Lower exemptions and withholding tax advocated to finance defense. M. S. Eccles. Comm & Fin Chr 155:332-3 Ja 22 '42
Mounting problem of the deficit; with tables giving United States government receipts and expenditures, 1941-1943 and public debt, 1914-1943. Nat City Bank p67-71 Je '42
New forces affecting money, bank loans, investments. H. M. Tremaine. Mag of Wall St 70:586-7+ S 19 '42
New government bond-sale system likely. E. Blair. Barron's 22:4 F 16 '42
New Treasury financing plans. H. D. Ralph. Burroughs Clearing House 26:18 N '41
1942 fiscal deficit set at $19.5 billion. Comm & Fin Chr 156:108 Jl 9 '42
Our partitioned Treasury. G. B. Robinson. bibliog diag J Account 74:140-52 Ag '42
Paying for defense. A. G. Hart and others. 275p $2.50 Blakiston '41
Post war fiscal policy. K. E. Poole. Trusts & Estates 74:137-9 F '42
President outlines anti-inflation program to Congress; heavier taxation, price, wage ceilings. Comm & Fin Chr 155:1708-9 Ap 30 '42
President warns of grave economic crisis. Comm & Fin Chr 156:991 S 17 '42
President's war program will affect banking. H. D. Ralph. Burroughs Clearing House 26:19-20 F '42
Public and private debt in the United States, 1929-40. R. B. Bangs. Survey of Cur Business 21:18-21 N '41
Recommends collaboration between SEC, dealers in maintaining economy. G. Purcell. Comm & Fin Chr 155:2289 Je 18 '42
Social effects of defense financing. B. E. Young. Bankers M 143:545-7 D '41
Some problems of war finance. W. S. McLucas. Bankers M 144:135-6 F '42
Summary of Treasury operations; with details of trust accounts and general fund balance, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:49 Ja '42
Today's foundation for post-war stability. L. Stern. Mag of Wall St 70:167-9+ My 30 '42
Treasury finance and the new budget. Fed Res Bul 28:95-101 F '42
Treasury financing in December and the calendar year 1941. Comm & Fin Chr 155: 246 Ja 15 '42
Treasury financing in two wars. Nat City Bank p 109 O '42
Treasury offering of $4 billions of notes in October; factors involved in financing. Nat City Bank p126-8 N '42
Unfinished business. H. Morgenthau, jr. Banking 35:5-6+ S '42; Same. Comm & Fin Chr 156:1074-5 S 24 '42
United States government securities; a review of financing operations and price records. 1941 ed 60p C. J. Devine & co, New York '41
War bonds, a solution now, a problem later. H. Spero and J. A. Leavitt. Bankers M 144:487-90 Je '42; Abstract. Trusts & Estates 75:128-9 Ag '42
War budget and costs. R. E. Badger. Trusts & Estates 74:135-6 F '42
War budget; fiscal policy represents all-out effort. Index 22 no 1:1-10 [Mr] '42
War economy; monetary management. A. P. Woolfson. Bankers M 143:471-4 D '41
War expenditures and national production. M. Gilbert. Survey of Cur Business 22:9-16 Mr '42
War expenses may be $74 billions in 1943; estimates of total expenditures. Comm & Fin Chr 156:1560 O 29 '42
War finance in three countries. Nat City Bank p32-5 Mr '42
Washington fiscal policy; its war and postwar aims. G. Colm and G. M. Alter. Fortune 26:122-3+ O '42

FINANCE—United States—*Continued*
We can pay the war bill. A. H. Hansen. Comm & Fin Chr 156:1340 O 15 '42
Where the money's coming from. J. P. Broderick. Barron's 22:3 Ja 26 '42
Why business won't crash because of huge war debt. J. L. Wick. Ptr Ink 200:17-18 S 25 '42
Your dollars, good or bad? tomorrow's bill for today's war. L. Stern. Mag of Wall St 69:239-41+ D 13 '41

See also
Banks and banking—United States
Bonds, Government—United States
Budget—United States
Debts, Public—United States
Gold as money—United States
Government accounting
Government expenditures
Inflation (finance)
Money—United States
Reconstruction finance corporation
Silver as money—United States
Taxation—United States

Uruguay

Bond issues and other financial measures. For Comm W 5:20 D 13 '41

FINANCE, International
Foreign investment in a postwar world. H. Feis. Fortune 26:86-7+ Jl '42; Abstract. Trusts & Estates 75:131-2 Ag '42
Gold in the new world order. L. Stern. il Mag of Wall St 69:646-8+ Mr 21 '42

See also
Balance of payments
Banks and banking, International
Debts, Public
Foreign exchange
Investments, Foreign

FINANCE, Municipal. See Municipal finance

FINANCE, Personal
Army woman's handbook. C. R. Collins. 203p $1.25 McGraw-Hill '42
Personal finance and management for the army officer. C. R. Hutchison. 185p $1.50 Appleton-Century '42
What price on estate? Trusts & Estates 75:242-3 S '42
Your legal and business matters and how to take care of them. H. E. Ashmun. 179p $1.75 Day '42

See also
Estate planning
Loans, Small

FINANCE, State. See State finance

FINANCE companies
Farewell to loans; how a finance company converted itself. Business Week p19-20 Ap 4 '42
Finance companies enter new fields. G. W. Mathis. Mag of Wall St 70:596-7+ S 19 '42
Instalment credit companies are seeking new lines. Barron's 22:12 Mr 23 '42
Installment finance companies on the spot. J. C. Clifford. Mag of Wall St 69:700-1+ Ap 4 '42
Instalment finance firms diversify. Barron's 22:12 Ag 31 '42
Loans or stew; General finance corp. lends to small war plants. Business Week p43-4 Jl 25 '42
Loosed lenders; have eyes on factoring, receivables, war financing. Business Week p80-1 My 9 '42

See also
Automobile industry and trade—Finance
Commercial credit company
Commercial investment trust corporation
Household finance corporation

FINANCIAL advertisers association
Annual convention opens in Chicago post-office. Ptr Ink 201:69 O 23 '42
Annual convention, 27th, cancelled; mail convention substituted. Bankers Mo 59:376 Ag '42

FINANCIAL advertising. See Bank advertising; Securities—Advertising

FINANCIAL libraries

See also
Bank libraries

FINANCIAL news. See Newspapers—Financial news

FINANCIAL ratios
Application of the bond tests adopted by New York state bankers' association. Comm & Fin Chr 155:751, 841 F 19-26 '42
Benchmarks of retail health, 1941; 14 financial ratios for 12 lines. R. A. Foulke. Dun's R 50:16-17+ O '42
Fourteen important financial ratios; with interquartile range, from 1940 financial statements for 72 lines. R. A. Foulke. Dun's R 49:5-10 D '41
Ratios; what they tell us. F. E. Lunt. Credit & Fin Management 44:8-11+ F '42

FINANCIAL statements
Accounting for special reserves arising out of the war. J Account 73:155-9 F '42
Analysis of financial statements. H. G. Guthmann. 3d ed 591p bibliog(p503-9) $5.35; school ed $4 Prentice-Hall '42
Basic financial statement analysis. A. Wall. 158p $2.50 Harper '42
Circulation principle; a proposed plan for preparation of financial statements. R. M. Swisher. Credit & Fin Management 44:19-24 Ag '42
Commissioners work on uniformity. Inv Banking 12:7-8 O '42
Difficulties of measuring profits in a wartime economy. W. A. Staub. il Dun's R 50:5-10+ Jl '42
Financial statement analysis; principles and technique. J. N. Myer. 257p $3.25 Prentice-Hall '41
Financial statements in credit appraisals. L. S. Day. Credit & Fin Management 44:16-18 N '42
Financial statements in wartime. G. N. Farrand. Credit & Fin Management 44:26-7, 37-9 S '42; Same. J Account 74:210-16 S '42; Abstract. Management R 31:319-20 S '42
Financial statements of trade unions. H. Volk. J Account 73:131-42 F '42
Fourteen important financial ratios; with interquartile range, from 1940 financial statements for 72 lines. R. A. Foulke. Dun's R 49:5-10 D '41
Income taxes in financial statements of proprietorships and partnerships. J Account 73:263-4 Mr '42
Interim financial statements and the auditor's report thereon; a statement by the American institute of accountants committee on auditing procedure. J Account 72:524-6 D '41
Interim report, American and foreign power company. J Account 72:537-8 D '41
OPA announces simpler financial reports. Refrig Eng 44:309 N '42
Psychology of credit letters. H. M. Sommers. Credit & Fin Management 44:10-12+ O '42
Regulations S-X under the Securities act of 1933, the Securities exchange act of 1934 and the Investment company act of 1940; form and content of financial statements, as amended to and including June 20, 1941. 78p U.S. Securities and exchange commission, Washington; 10c Supt. of doc. '41
Research in inventories. W. A. Staub. J Account 73:297-310 Ap '42
S.E.C. administrative policy on financial statements. B. B. Greidinger. J Account 73:219-24 Mr '42
Simplified financial statements. J Account 74:264-5 S '42
Some current deficiencies in financial statements. W. W. Werntz. J Account 73:25-34 Ja '42
State financial report; annual report of the comptroller of the state of New York. J Account 74:360-1 O '42
Wartime accounting; government war contracts, wartime financial statements, income taxes, price control, and priorities and allocations. G. N. Farrand. J Account 73:421-3 My '42

See also
Balance sheets
Consolidated statements
Employees, Reports to

FINANCIAL statistics
Current statistics for Federal reserve chart book on bank credit, money rates, and business. Fed Res Bul 28:66-8 Ja '42 [cont monthly]
International financial statistics. Published in monthly numbers of Federal reserve bulletin
See also
Banks and banking—
Statistics

FINE structure constant
Precise determination of the fine structure constant from X-ray spin doublet splitting. R. F. Christy and J. M. Keller. Phys R 61: 147-52 F 1 '42

FINENESS. See Cement—Fineness; Particles

FINGERPRINTS
Consider mandatory finger printing of all. Comm & Fin Chr 156:18 Jl 2 '42
Fingerprinting center in downtown New York. Comm & Fin Chr 156:275 Jl 23 '42
Practical fingerprinting. B. C. Bridges. 374p $4 Funk & Wagnalls co, New York '42

FINISHING materials
Finishing and finishes, 1941 and current trend. R. M. Burns. bibliog il Metals & Alloys 15: 60-2 Ja '42
Fire protection for organic finishing; guarding spray booths and other special hazards. P. W. Eberhardt. il diags Metal Finishing 40:566, 568-9 O '42
Hercules rosin esters. F. J. Van Antwerpen. il News Ed 19:1255-6, 1258 N 25 '41
How the coating industry is using the nitroparaffins. C. Bogin. Paint Oil & Chem R 104:9-11+ Ag 27; 9-11, 26-8 S 10; 9-10, 24-9 S 24; 8-10, 25-9 O 8 '42
Linings for steel drums and containers. M. W. Frishkorn. Chem Ind 50:56+ Ja '42
Military applications for organic finishes; infrared drying. T. P. Cusack, jr. il diags Metal Finishing 40:499-501, 503-4 S '42
New air-tight box to keep moisture in or out; thermoplastic coated folding carton. flow chart il Mod Packaging 15:84-6+ F '42
New materials and finishes of 1941; with reference table. F. P. Peters. Metals & Alloys 15:89-90 Ja '42
New surface coating resin; Vinylite VMCH. Mech Eng 64:sup23+ N '42
Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42
Present status of aircraft finishes. M. A. Coler and E. De Nio. Aero Digest 41:254+ Jl '42
Problems in finishing. Metal Finishing 40: 508-9, 571, 623 S-N '42
Specifications of naval and military finishes; table. P. H. Goodell. Iron Age 149:64 Je 25 '42
Status of organic finishing materials. C. A. Lankau. Metal Finishing 40:439-44 Ag '42
Studies in esterification; preparation and properties of starch propionate. D. E. Mack and R. N. Shreve. bibliog diag Ind & Eng Chem 34:304-9 Mr '42
Synthetic coatings. O. P. Clipper. Paint Oil & Chem R 104:9-12, 28-32 F 12; 11-12, 14, 38-9, 51-2 F 26 '42
Utility enamel finishes for light alloy castings. Iron Age 150:49-52 O 29 '42
See also
Lacquer and lacquering
Paint
Varnish and varnishing
Waxes
also United States—War production board —Protective coatings section

Analysis

Vacuum method for solids content determinations. J. G. Shelton. il Metal Finishing 39: 703 D '41

Standards

Fewer but better finishes; RCA manufacturing company's standards program. A. L. Pipper. il Ind Stand 12:209-14 Ag '41; Same. Metal Finishing 40:158-62 Mr '42

Testing

Testing finishes for plywood surfaces. A. B. Marsh. il Aero Digest 41:174, 176, 178+ S '42

FINLAND
Finnish political feeling. Economist 142:395-6 Mr 21 '42
See also
World war, 1939—
Finland

Commerce

Negative trend of balance of trade accentuated. For Comm W 5:14 N 29 '41

Economic conditions

Finland's perplexities. il For Comm W 9: 12-13+ O 10 '42
News by countries. For Comm W 7:13-14 My 9; 8:17-18 Jl 11 '42

Foreign relations

United States

Finland asked to close U.S. consulates by Aug. 1. Comm & Fin Chr 156:275 Jl 23 '42
Finn consulates to close. Comm & Fin Chr 156:462 Ag 6 '42
United States asks Finland to end war with Russia; Hoover against pressure. Comm & Fin Chr 154:1337 D 4 '41

FINLAY institute of the Americas
Finlay institute of the Americas to encourage research and education in the field of tropical disease. Science 95:91 Ja 23 '42

FIQUE fiber. See Mauritius hemp

FIRE
Romance of fire. A. M. Low. 238p 8s 6d J. Gifford, London '41
See also
Combustion
Fires
Heating
Smoke

FIRE alarms
Alarm service; influence of public and private protection on fire insurance. A. C. Hutson. Weekly Underw 147:28+ Jl 4 '42
High-speed fire alarm for detecting incendiary bombs. il diags Engineer 171:225 Ap 4 '41; Abstract. Elec W 117:111-12 Ja 10 '42
Standard schedule for grading cities and towns of the United States with reference to their fire defenses and physical conditions. Am Water Works Assn J 34:sup54-60 O '42

FIRE apparatus
Automatic fire protection; pump driven by a Diesel engine. C. P. Molyneux. il Diesel Power 20:815 O '42
Bore-hole type pump for fire service. diags Engineer 173:81-2 Ja 23 '42
Ersatz may mean improvement; substitutes in fire protection equipment. J. A. Neale. Safety Eng 83:21 Je '42; Same. Nat Safety N 46:93-4 Jl '42
Fairbanks-Morse special duty pump units developed for small plants and towns. il Water Works & Sewerage 89:insert 125 Je '42
Fire-fighting apparatus. il Nat Safety N 45: 130-2+ Mr '42
Priming system of trailer fire pump. diags Engineering 154:47 Jl 17 '42
Pumps for home protection; simple units for combatting incendiary bombs and fires can be made from available material. G. H. Stahler. il diags Sci Am 167:116 S '42
See also
Fire extinguishers
Fire protection

FIRE apparatus, Motor
Cardox airport fire truck. il Automotive & Aviation Ind 87:35+ Ag 15 '42; Aero Digest 41:106 Ag '42
Combined water purifier and fire-fighting apparatus; Sterozone Hydrovan. il Water & Sewage 80:36 S '42
Drip truck does double duty as mobile fire-fighting unit. il Am Gas Assn Mo 24:214 Je '42

FIRE apparatus, Motor—*Continued*

Emergency water supply pumping with fire engines; drought relief in Hudson, N.Y. J. M. Wardle. il plan Pub Works 73:14-16 Ag '42

Kidde crash trucks. il Steel 111:88 Ag 24 '42

FIRE brick

Air-cooled arch stops spalling ills. Elec W 118:1427 O 31 '42

Boiler firebox maintenance. K. Steiner. il Heating-Piping 14:610-12 O '42

Insulating fire brick. Brick & Clay Rec 101:52+ S '42

Insulating firebrick for kiln construction. J. D. McCullough. il Am Cer Soc Bul 20:437-42 D '41

Insulating fire brick in modern furnace construction; with cost data. N. A. Humphrey. Blast F & Steel Pl 29:1197-1201 D '41

Makes sleeve brick in longer lengths. il Steel 111:62 S 28 '42

Six times as much insulating brick. G. E. Grimshaw. Metal Prog 42:594 O '42

Slag and spalling mean high furnace maintenance. M. N. Gozdenovich. Power Pl Eng 46:102 N '42

Soaking pit and reheating furnace refractories. J. H. Chesters. bibliog il diags Iron Age 150:35-42 Jl 16; 38-43 Jl 23 '42

Summaries of Institution communications; 32d report of the Refractory materials joint committee. Gas J (Lond) 237:354+ Mr 11 '42

Suspended furnace walls give less trouble. G. P. Reintjes. diags Power 86:248-9 Ap '42

Use of Missouri refractories in blast furnace service. C. A. Freeman. il Blast F & Steel Pl 29:[1119-22] N '41

See also

Chromite magnesite brick

Silica brick

Manufacture

How Johns Manville makes insulating fire brick. il Brick & Clay Rec 99:46, 48-50 N '41

More work done with less fatigue using industrial trucks; Harbison-Walker refractories co. il Brick & Clay Rec 100:36+ Je '42

New firing methods reduce fuel costs and give more uniform burning; Richard C. Remmey sons co. il diags Brick & Clay Rec 101:24-5 S '42

New hot floor dryer uses unit heaters to cut drying time; Ironton fire brick co. il Brick & Clay Rec 99:45-9 D '41

Vibrating feeders aid production; Stockton fire brick co. G. A. Page. il Brick & Clay Rec 100:40+ Mr '42

Testing

Aluminum reactions on refractory brick; abstract. H. G. Schurecht and J. F. McMahon. Brick & Clay Rec 100:46 My '42

Apparatus for measuring thermal conductivity of refractories. C. L. Norton, jr. bibliog il diags Am Cer Soc J 25:451-9 N 1 '42

Influence of working conditions on the durability of blast-furnace linings; abstract. G. R. Rigby and A. T. Green. Engineering 154:5 Jl 3 '42

Transverse testing furnace; electric furnace for determining the transverse strength of 9-in. brick to temperatures as high as 1500°C. J. C. McMullen. il diags Am Cer Soc J 25:389-90 S 1 '42; Abstract. Brick & Clay Rec 100:39 My '42

Transportation

Handling refractories with fork trucks and pallets cuts costs, speeds masonry operations. il Steel 111:84+ Jl 20 '42

FIRE brigades, Factory. See Factory fire brigades

FIRE clay

Fire clay will have to supply alumina. W. Stout. Brick & Clay Rec 101:50 S '42

See also

Fire brick

Testing

Expansion, contraction, and strength changes of some clays during firing. R. K. Hursh and M. K. Blanchard. il diags Am Cer Soc J 25:351-4 Ag 1 '42

FIRE departments

Intermunicipal co-operation in fire fighting; abstract. E. F. Jarz. Am Water Works Assn J 34:606-9 Ap '42

Standard schedule for grading cities and towns of the United States with reference to their fire defenses and physical conditions. Am Water Works Assn J 34:sup34-53 O '42

FIRE departments, Industrial. See Factory fire brigades

FIRE engines

104 year-old fire engine added to H. V. Smith museum. il East Underw 43:14 Jl 3 '42

FIRE extinction

Advocate continual use of water spray to quench fires in mine dumps. Coal Age 47:92 Ap '42

Cement as a fire extinguisher. R. Cross. Science 95:275-6 Mr 13 '42

Chemists overcome incendiary bombs. A. H. Nuckolls. il Weekly Underw 146:327-9 F 7 '42

Control of incendiary bombs. diags Nat Safety N 45:13-14+ Mr '42

Dry ice utilized to complete fire extinguishment. Coal Age 47:51 S '42

Experiments in extinguishing fires caused by air raids. Am Gas Assn Mo 24:158 Ap '42; Same. Gas Age 90:11 Jl 2 '42

Extinguisher for magnesium fires. Eng N 128:929 Je 4 '42

Extinguishing magnesium fires; abstract. Am Mach 86:813-14+ Jl 23 '42

Feldspar for extinguishing magnesium incendiary bombs; abstract. W. W. Rubey, M. Fleischer and J. J. Fahey. Chem & Met Eng 49:155-6 Ag '42

Fighting coal-bunker fires; using CO_2 (gas, liquid and dry ice). D. Gutleben. diag Power 86:44 Ja '42

Fighting incendiary fires in aircraft plants. il Aero Digest 41:102+ Ag '42

Fighting power-plant fires. W. E. Rossnagel. il diags Power 85:804-5; 86:158-60, 259-61 N '41, Mr-Ap '42

Fighting the fire bomb. Diesel Power 20:588+ Jl '42

Fighting the fire bomb! il diag Safety Eng 83:20-2 Ja '42

Fire extinction methods. H. Morrison. Chem Age (Lond) 46:273 My 30 '42

Fire officers' manual for training a fire department auxiliary corps. Hamilton co, 225 Lafayette st, New York

Fire protection in civilian defense. 44p U.S. Office of civilian defense, Washington '41

Fire protection methods for process plants. bibliog il Chem & Met Eng 49:98-104 Ag '42

Fire service hydraulics. F. Shepperd. 254p $3 Case-Shepperd-Mann pub. corp, New York '41

Flaming fluids. G. M. Kintz. il Nat Safety N 45:22-3, 68-75 F '42

Foam directory provides for pooling supplies in oil fire emergency. G. A. Lexander. Nat Pet N 34 pt 2:R207 Jl 29 '42

Handbook for auxiliary firemen. 94p U.S. Office of civilian defense, Washington '41

How fire at Continental mine was slushed out. S. H. Ash, E. W. Felegy and W. C. Jones. Coal Age 47:71 My '42

How Honolulu fire department handled Jap attack of Dec. 7. Blaisdell. East Underw 43:19+ Ap 3 '42

How to fight the fire bomb; illustrated instructions. Power 86:pt 2[fold insert] Ap '42

Hydraulics as applied to fire fighting. N. R Cottee. 47p 2s 6d N. R. Cottee, 10 Kitto road, New Cross, London, SE 14 '42

Intermunicipal co-operation in fire fighting; abstract. E. F. Jarz. Am Water Works Assn J 34:606-9 Ap '42

Mixing chamber for tank fire fighting. il Blast F & Steel Pl 30:472 Ap '42

FIRE extinction—*Continued*

Petroleum pitch is found effective in combating magnesium fires. H. R. Brown, I. Hartmann and H. P. Greenwald. Nat Pet N 34 pt 2:R307+ S 30 '42

Pitch black; coal tar pitch for extinction of magnesium fires and incendiary bombs. il Safety Eng 83:17-18 F '42

Pitch the best incendiary extinguisher. Science 95:sup9-10 Ja 23 '42

Pop-gas aids war drive; carbon dioxide for fire extinction. P. W. Eberhardt. il diags Sci Am 166:269-71 Je '42

Proceedings of the sixty-ninth annual conference of the International association of fire chiefs, Boston, Mass., Aug. 19-22, 1941. 231p Daniel B. Tierney, sec, Arlington, Mass.

Promotional study course for firemen. F. Shepperd. 350p $3 Case-Shepperd-Mann pub. corp., 24 W. 40th st, New York '41

Protection against incendiary bombs. W. H. Easton. Power Pl Eng 46:56-7 Je '42

Protection of natural gasoline plants from air raids. D. Attaway. il diags Pet Eng (Annual no) 13:142, 145-6, 148 [Jl] '42

Putting out a gas fire in a broken gas main. il Gas Age 90:70 Jl 16 '42

Spent fuller's earth found effective in control of incendiary bombs. G. C. Jones. il Nat Pet N 34:R163-6+ My 27 '42

Standards for special oil fire extinguishing systems revised at NFPA meeting. Nat Pet N 34:R168 My 27 '42

Training manual for auxiliary firemen. H. Bond, W. F. Heisler and R. J. Douglas, eds. 406p pa $1.50 Nat. fire protection assn, 60 Batterymarch st, Boston '42

See also

Coal mines and mining—Fires and fire protection

Fire extinguishers

Fire service (water supply)

FIRE extinguishers

Defense work requires that fire extinguishers be kept fit. Credit & Fin Management 43:15+ D '41

Domestic oil burners; keep an extinguisher handy. W. E. Rossnagel. il Nat Safety N 46:74+ O '42

Fire-fighting apparatus. il Nat Safety N 45:130-2+ Mr '42

Fire protection for Diesel locomotives. diags Diesel Power 20:940+ N '42

Fire protection goes automatic; built-in extinguishing systems are trend in paint protection. P. W. Eberhardt. il Paint Oil & Chem R 104:16, 18 Ap 9 '42

Fire ravages industry. C. B. White. il Safety Eng 84:54-6 O '42

Guarding against the flammable liquid fire hazard. C. L. Griffin. il Ind & Eng Chem 34:664-9 Je '42

Hazards due to electric shock transmitted across discharge spray of compressed carbon dioxide. R. L. Grant. bibliog pls diag U S Bur Mines Rep of Invest 3656:1-7 '42

Installation and maintenance of CO_2 fire extinguishing systems; prevention of engine fires in aircraft. J. M. Noble. il diags Aviation 41:148-9 Mr '42

Laboratory testing of magnesium incendiary bomb extinguishers. M. Fleischer and J. J. Fahey. Chem & Eng N 20:1110 S 10 '42

Magnesium fire extinguisher. il Aero Digest 40:210 F '42

Maintenance of hand fire extinguishers. Power Pl Eng 45:91 D '41; Same. Mass Transportation 38:77 Mr '42; Same abr. Textile World 92:120 Jl '42

OCD fire extinguishers tested by Underwriters' laboratories. Weekly Underw 147:1054+ N 7 '42

Portable extinguishers guard war plants; employees must be trained in correct method of handling different types. Safety Eng 84:20-1 S '42

Ready when needed; fire extinguishers for trucks. P. W. Eberhardt. il Nat Safety N 46:72-3 O '42

Take good care of them. il Nat Safety N 45:29+ My '42

Manufacture

Plant within a plant speeds shipbuilding; Walter Kidde & company; branch fire extinguisher factories in shipyards. H. H. Dierksen. il Marine Eng 47:176-7 O '42

Simplification speeds up production; employees of Walter Kidde & company develop assembly devices. il Marine Eng 47:100-3 Je '42

FIRE hose

Fire hose sluices coal to emergency storage; Illinois iron & bolt co. il Power 86:816 N '42

New fire hose. Safety Eng 84:25 Jl '42

War uses of farm products. H. G. Knight. il Manuf Rec 111:25+ Ag '42

Wartime fire hose ready. Business Week p59 Je 20 '42

Standards

Emergency requirements issued for fire hose. Weekly Underw 146:1327+ Je 13 '42; Rubber Age 51:323 Jl '42; Pet Eng 13:56 S '42

Underwriters' laboratories revise hose specifications. Rubber Age 51:323 Jl '42

FIRE houses

America's building need for safety. il diag plans Arch Rec 90:57-62 D '41

FIRE insurance. See Insurance, Fire

FIRE losses

1942 fire losses show 26% increase in first two months. T. A. Fleming. East Underw 43:1+ Mr 20 '42

Primary causes of loss. P. D. Betterley. Weekly Underw 146:782-5 Ap 4 '42

Accounting

Accounting for fire losses and insurance reserves. J Account 72:534-5 D '41

FIRE protection

Agents told how they can aid fire defense at convention session. East Underw 43:22 Ap 24 '42

Americans waking up regarding fire loss. P. Bugbee. Weekly Underw 146:1101+ My 16 '42

Arson expert gives hints on sabotage prevention. J. F. Gillece. Nat Safety N 45:71 Ja '42

Boston fire taught costly lesson. R. W. Boyd. il Weekly Underw 147:602, 604+ S 19 '42

Boston lacked serious fire prevention. J. M. Bugbee. il Weekly Underw 147:610, 612+ S 19 '42

Built-in fire protection; carbon dioxide systems for intense fire hazards. il diag Can Chem & Process Ind 26:17-18 Ja '42

Civilian defense; building protection; fire. il diags Arch Forum 76:28-9 Ja '42

Control of smoking in factories. Pulp & Pa of Can 43:856 O '42

Coordinating the fire service. P. C. Charnock. N E Water Works Assn J 56:53-8 Mr '42

Educational program for industrial fire prevention protection. J. A. McGuckin. Edison Elec Inst Bul 10:91-2 Mr '42

Efficient fire-fighting organization. il Pulp & Pa of Can 43:646-7 Jl '42

Electricity and fire risk. C. S. Lyon. Electrician 129:354-5 O 2 '42

Emphasis needed on fire prevention fundamentals. Nat Underw 46:4+ Mr 5 '42

Employee organization for fire safety. 47p pa 25c Nat. fire protection assn, 60 Batterymarch st, Boston '42

Essential role of fire service stressed at Memphis parley. Nat Underw 46:3 Ja 15 '42

Fall River fire emphasizes need for watchman and employe training. S. C. Garrity. East Underw 43:24 F 27 '42

Fire! aid to the enemy. L. F. Maar. il Safety Eng 84:39-40 O '42

Fire control for victory. L. W. Hutchins. il Safety Eng 84:19-20+ Jl '42

Fire control in wartime. P. Bugbee. Weekly Underw 146:28+ Ja 3 '42

Fire defense in munitions production. 52p pa $1.50 Nat. fire protection assn, Boston '41

Fire, foe of war production. J. M. Landis. il Chem Ind 51:374-7 S '42

FIRE protection—*Continued*
Fire hazards and prevention in airports. F. B. Quackenboss. Weekly Underw 145:1282-6 D 6 '41
Fire prevention and protection in war. F. Hargrett. Weekly Underw 146:1279-82 Je 6 '42; Same cond. il Nat Safety N 45:10-11, 70-4 Je '42
Fire prevention education. 355p Nat. board of fire underwriters, 85 John st, New York '42
Fire prevention for defense; abstract. D. F. Nicholson. Management R 31:215-16 Je '42
Fire prevention in building army camps. il Eng N 129:548-9 O 22 '42
Fire prevention in defense industry; abstract. W. H. Rodda. Management R 30:420-2 N '41
Fire prevention program. J. A. Hartwick. Nat Underw 46:10 My 28 '42
Fire prevention week. Safety Eng 84:13 S '42
Fire protection association amends rules on air conditioning and welding. Heating-Piping 14:409 Jl '42
Fire protection for organic finishing; guarding spray booths and other special hazards. P. W. Eberhardt. il diags Metal Finishing 40:566, 568-9 O '42
Fire protection goes automatic; built-in extinguishing systems are trend in paint protection. P. W. Eberhardt. il Paint Oil & Chem R 104:16, 18 Ap 9 '42
Fire protection is vital to war effort. F. Hargrett. Nat Underw 46:5+ F 26 '42
Fire watching for women. Economist 143:202 Ag 15 '42
Fire will not defeat the U.S.; abstracts. R. P. Barbour. East Underw 43:1+ My 29 '42; Weekly Underw 146:1205-6+ My 30 '42
Flameproof enclosure of electrical apparatus; certification. H. Rainford. Engineer 172: 312-13 N 7 '41; Same cond. Elec R (Lond) 129:471-2 O 31 '41
For the large plant; proper storage of coal. R. J. Brandon. il diags Power Pl Eng 46: 69-73 Jl '42
For the small plant; coal storage and handling. C. F. Hardy. il Power Pl Eng 46:62-4 Jl '42
Good maintenance prevents motor fires. Nat Safety N 46:87 S '42
Group session on fire protection. C. E. Townsend and others. Am Pet Inst Proc 22(1): 45-56 '41
Hazards in old buildings. Safety Eng 84:21 O '42
Hazards threaten production; fire protection engineer tells how to overcome wartime fire dangers. C. R. Welborn. Safety Eng 83:22, 24 Je '42
How to obtain safer operation of large motors in hazardous atmospheres; inert-gas-filled motors. B. M. Mills. il diag Gen Elec R 44:601-4 N '41
Importance of fire defense stressed at Chicago parleys. Nat Underw 45:3+ D 4 '41
Industrial fire hazards. A. C. Hutson. Weekly Underw 147:26-7 Jl 4 '42
Influence of public and private protection on fire insurance. A. C. Hutson. Weekly Underw 145:1287-8; 146:53, 330, 544-5, 1004-5 D 6 '41, Ja 3, F 7, Mr 7, My 2 '42
Insurance stocks; President Roosevelt's message; Fire prevention week. Comm & Fin Chr 156:1342 O 15 '42
Intensify effort to remove fire hazards; Chamber of commerce of the United States has intensified plans. Comm & Fin Chr 156: 637 Ag 20 '42
It shan't happen here. il Safety Eng 83:6-8 My '42
Magnesium alloy dust collected under water. il Nat Safety N 45:66 Je '42
Magnesium alloys; hazards and precautions. Nat Safety N 45:56, 58 Je '42
Magnesium fire prevention and control. R. I. Thrune. Nat Underw 46:3+ Ja 22 '42
More cities adopt model ordinance of the National board. East Underw 43:1+ Ap 10 '42
National Board stresses plant fire protection. Weekly Underw 146:712 Mr 28 '42; Same. Safety Eng 83:34-5 Ap '42
N.F.P.A. publishes employee safety book. East Underw 43:23 Ja 16 '42
Need for organized community fire prevention urged; National fire waste council meets. Nat Underw 46:5+ Ap 9 '42
Operating pulverized coal systems with safety and efficiency. il Concrete (mill sec) 50:262-5+ N '42
Organizing for fire prevention. L. G. Schraffenberger. Ins Field (Fire ed) 71:22 My 7 '42
Plans for national defense; abstracts. P. Bugbee. East Underw 42:82 D 12 '41; Weekly Underw 145:1269+ D 6 '41
Prevention of fires, explosions, and accidents from inflammable fluids. G. M. Kintz. Pet Eng 13:77+ Je; 75-6+ Jl '42
Priorities warn of fire losses. F. W. Young. il Credit & Fin Management 44:8-9 Ja '42
Protecting life, property, and production in the foundry industry during the war. diag Foundry 70:60-1+ Je '42
Protection against plant damage. W. B. Dall. il Textile World 92:84-7 Jl '42
Protection for valuables. Consumers' Research Bul 9:25-6 Ap '42
Relation of water to fire protection; amount necessary to extinguish blaze. A. C. Hutson. Weekly Underw 147:497-9 S 5 '42
Rules for safe storage of coal. Heating-Piping 14:167 Mr '42
St Paul first to adopt prevention ordinance. Weekly Underw 145:1398 D 20 '41
Sees opportunity for fire prevention experts. W. H. Rodda. Weekly Underw 147:550+ S 12 '42
17 ways to prevent welding fires. Heating-Piping 14:164-5 Mr '42
Sleepless sentries; automatic devices are on duty 24 hours. il Nat Safety N 45:133+ Mr '42
Spark arresters for stacks. Safety Eng 83:29 Je '42
Standard schedule for grading cities and towns of the United States with reference to their defenses and physical conditions. Am Water Works Assn J 34:supl-78 O '42
Stop electrical fires. W. MacLachlan. il Safety Eng 82:6-10 D '41
Storing coal safely. M. K. Drewry. il Power Pl Eng 46:65-8 Jl '42
Temporary but safe; fire protection in government temporary office buildings. C. A. Peters. il Nat Safety N 45:22-3 Ja '42
Through the field glasses; Factory Insurance 16 protective steps. Ins Field (Fire ed) 71:17 Ja 29 '42
To honor municipalities passing modern fire prevention ordinances. East Underw 43:20 F 6 '42
War, defense, lend added import to fire prevention study. L. F. Maar. il Inland Ptr 108:67-9 Ja '42
War gives added impetus to fire prevention week. Nat Underw 46:1+ O 8 '42
War means fire. il Safety Eng 83:6-8+ Ja '42
Warning on air raids accented by events. T. A. Fleming. Nat Underw 45:13 D 11 '41; Same abr. East Underw 42:20 D 19 '41
War-time fire protection. C. R. Welborn. il Nat Safety N 46:20-1+ Jl '42
Wartime plant fire prevention problems. A. H. Nuckolls. East Underw 43:26 F 27 '42
War-time protection of industrial plants. bibliog diags plan Chem & Met Eng 49: 102-8 Ja '42
Watching industry's ramparts. J. G. Trudinger. il Nat Safety N 44:10-11+ D '41

See also
Factory fire brigades
Fire alarms
Fire extinction
Fire extinguishers
Fire resisting materials
Fire service (water supply)
Fireproof construction
Fireproofing
Fireproofing of textiles
Forest fires
Inflammable mixtures
Insurance, Fire—Preventive work

also subdivision Fires and fire protection under special subjects, e.g.
Air conditioning equipment
Airplanes
Airports
Automobiles
Chemical plants

FIRE protection—See also—*Continued*
Electric plants (central stations)
Gasoline storage
Locomotives, Diesel
Motor trucks
Piers
Power plants
Ships
also National fire protection association

Bibliography

Publications on the National board of fire underwriters. Safety Eng 82:20-1 N '41

Contests and awards

Cincinnati winner in fire waste contest; other winners. East Underw 43:26 Ap 10 42; Weekly Underw 146:826+ Ap 11 '42

Fire prevention awards; cities rating higher than 90%. East Underw 43:26 Ja 9 '42

National board makes newspaper-radio awards. il Weekly Underw 146:1205+ My 30 '42; Nat Underw 46:3 Je 4 '42

National waste contest on prevention. Weekly Underw 146:655 Mr 21 '42

Study and teaching

Armour night classes start study of special hazards. Weekly Underw 146:176 Ja 17 '42

New York university offers new course in fire prevention. Ind Stand 13:252 O '42

FIRE pumps. See Fire apparatus

FIRE resisting materials

Fire-retarding paint. Oil Paint & Drug Rep 142:45 O 26 '42

Firepel, fire retardant chemical to aid unfinished wood surfaces. East Underw 43:26 O 9 '42; Weekly Underw 147:853+ O 10 '42

Flameproofing structural materials with borophosphate resin, commercially called Abopon. C. A. Crowley and J. B. Mullen. Arch Rec 91:24+ F '42

Magnesium oxychloride sparkproof floors. M. Y. Seaton. il Chem Ind 51:74-7 Jl '42

Making a porous concrete pipe; Jourdan concrete pipe co.; also fire-resistant pumice concrete masonry unit. W. B. Lenhart. il Rock Prod 45:66 Ap '42

Paints that retard fire. H. A. Gardner. Nat Safety N 45:93 My '42

Practical fire-sensitivity of liquid-oxygen explosives treated with fire-retardants. A. R. T. Denues. U S Bur Mines Rep of Invest 3605:1-6 '41; Same. Eng & Min J 143:163-4 F '42

Repairing roofs without priority materials; two sprayed on coatings of transparent mastic and slate granules. il Sheet Metal Worker 33:27-8+ O '42

See also
Asbestos
Concrete construction—Fire resistance
Neoprene

Testing

Fire resistant roofing proved in grueling tests. il Sci Am 167:58-9 Ag '42

Report on comparative fire tests of treated and untreated wood. il Am Soc T M Proc 41:238-76 '41

Standard tests check fire resistance of building materials and doors. R. P. Miller. il Ind Stand 13:247-9 O '42

Tests on asbestos. Elec R (Lond) 130:258 F 20 '42

FIRE service (water supply)

Britain converts cellars for fighting fire; basements of shattered buildings converted into tanks for static water supplies. il Arch Forum 77:6 Jl '42

Can American water systems provide adequate civilian defense? with particular reference to fire service in vicinity of mains damaged by bombs. K. J. Carl. Water Works & Sewerage 89:194-7 My '42

Coordinating the fire service. P. C. Charnock. N E Water Works Assn J 56:53-8 Mr '42; Abstract. Water Works & Sewerage 89:131-2 Mr '42

Relation of water to fire protection; amount necessary to extinguish blaze. A. C. Hutson. Weekly Underw 147:497-9 S 5 '42

Standard schedule for grading cities and towns of the United States with reference to their fire defenses and physical conditions. Am Water Works Assn J 34:sup11-33 O '42

Water supply in air raids. il Eng N 128:192-3 Ja 29 '42

See also
Hydrants
Water distribution—Cross connections

FIRE stations. See Fire houses

FIRE tests. See Fire resisting materials—Testing

FIRE underwriters, National board of. See National board of fire underwriters

FIRE underwriters association of the Pacific

Annual meeting, 66th, San Francisco, March 4-5. East Underw 43:20 Mr 6 '42; Ins Field (Fire ed) 71:7-8+ Mr 5; 9-10+ Mr 12 '42; Nat Underw 46:5+ Mr 5; 1+ Mr 12 '42; Weekly Underw 146:517+ Mr 7 '42

FIREARMS

Ammunition for modern small arms. A. F. Macconochie. diags Steel 109:65-8 D 1 '41

Automatic arms; their history, development and use. M. M. Johnson, jr. and C. T. Haven. 344p $4.50 Morrow '41

Concrete masonry vs. sabotage; firearms test. il Concrete 50:14+ Ap '42

Modern small arms [reprinted from Steel]. 66p pa $1 Penton pub. co, Cleveland '42

Small arms manual. J. A. Barlow. 216p 2s J. Murray, London '42

See also
Ordnance
Rifles

History

Small arms and the crown. O. F. G. Hogg. il map Engineering 153:74, 81-3 Ja 23-30 '42

Manufacture

Machine tools for production of small arms. il Engineer 172:379-80 N 28 '41

Small-arms barrel-finishing machines. il Engineering 152:506 D 26 '41

Sights

Minneapolis-Honeywell regulator co.; humidity control system for manufacture of gun sights. J. E. Haines. il diag Heat & Ven 39:40-2 O '42

FIREBOXES, Locomotive. See Locomotive fireboxes

FIREBRICK. See Fire brick

FIREFLIES

Method of recording low intensity flashes of light; intensity changes in light given off by luminous animals. C. Butt and R. S. Alexander. bibliog il diag R Sci Instr 13:151-3 Ap '42; Abstract. Electronics 15:108+ O '42

FIREMAN'S fund insurance company

Fireman's Fund demonstrates reputed skill in controlling publicly held fire affiliates. F. L. Brokaw. Weekly Underw 147:958 O 24 '42

To acquire all stock of running mates. Nat Underw 46:10 O 22 '42

FIREMEN

Fire department manpower. A. C. Hutson. Weekly Underw 146:1283 Je 6 '42

Volunteer firemen compensation cover. Weekly Underw 146:284 Ja 31 '42

Training

Training manual for auxiliary firemen issued by the N.F.P.A. East Underw 43:30 Je 12 '42

FIREMEN'S manuals

Handbook for fire watchers. 52p U.S. Office of civilian defense, Washington '41

FIREPLACES

Anthracite in fireplaces. il Sheet Metal Worker 33:38 O '42

Insulate the fire back! discussion. Gas J (Lond) 238:101-2 Ap 15 '42

FIREPLACES—*Continued*

Reducing fuel consumption; value of fireplaces; reducing night temperature, etc. T. W. Reynolds. Heat & Ven 39:33-4 Ap '42

FIREPLACES, Outdoor

Brick fireplaces help absorb sales loss created by building restrictions. il Brick & Clay Rec 101:28-30 Ag '42

FIREPROOF construction

Fire-proof; glass-wool checks spread of flames. Sci Am 165:337-8 D '41

Steel stress and fireproofing. G. M. Zucco. Eng N 129:620-1 N 5 '42

See also

Concrete houses
Fire resisting materials
Steel houses

FIREPROOFING

Chemical repellents. F. J. Van Antwerpen. Ind & Eng Chem 33:1514-15 D '41

Firepel, fire retardant chemical to aid unfinished wood surfaces. East Underw 43:26 O 9 '42; Same abr. Weekly Underw 147:853+ O 10 '42

Fireproofing of timber. Engineer 174:200 S 4 '42; Engineering 154:208 S 11 '42

Flameproofing structural materials with borophosphate resin, commercially called Abopon. C. A. Crowley and J. B. Mullen. Arch Rec 91:24+ F '42

Industrial uses of chemicals and related materials; trimetaoxyphenyl phosphate. Oil Paint & Drug Rep 142:63 S 28 '42

Let us spray; Sprayo-Flake. il R Sci Instr 12:618 D '41

Report on comparative fire tests of treated and untreated wood. il Am Soc T M Proc 41:238-76 '41

FIREPROOFING of textiles

Flameproofing made possible by laboratory curiosity. Sci Am 166:200-2 Ap '42; Abstract. Nat Safety N 45:73 Ap '42

Recommended requirements for flameproofing of textiles. 18p pa 15c Nat. fire protection assn, 60 Batterymarch st, Boston '41

Tarpaulin as a fire hazard. J. Bateman, jr. Weekly Underw 146:543 Mr 7 '42

FIRES

Boston fire taught costly lesson; chronological history of Boston's great fires. R. W. Boyd. il Weekly Underw 147:602, 604+ S 19 '42

Collected notes on chemical safety; concerning fire and explosion hazards. J. Creevey. Chem Age (Lond) 45:257 N 15 '41

Conflagration risks analyzed by N.F.P.A. in study of past fires. East Underw 43:24-5 Jl 24 '42

Control today's fires. T. A. Fleming. il Safety Eng 83:35-6 Mr '42

Dangers in handling dyestuffs. J. Creevey. Chem Age (Lond) 46:255 My 16 '42

Detecting the saboteur static electricity in gasoline fires. R. Beach. il diags Elec Eng 61:501-8 O '42

1872 Boston fire stunned nation. R. Rhodes. il Weekly Underw 147:598-600+ S 19 '42

Every fire is sabotage today! T. A. Fleming. il Safety Eng 84:14-16+ O '42

Exposed fuel oil tank caused Christmas day holocaust in St Louis; insurance carried. Weekly Underw 146:87 Ja 3 '42

F.I.A. report states watchman shut off sprinklers at Fall River. East Underw 42:18 N 14 '41

Fall River fire. S. C. Garrity. East Underw 43:24 F 27 '42

Fire caused by steam-heated pipes. B. Schweig. Chem Age (Lond) 46:169 Mr 28 '42

Fire prevention and protection in war. F. Hargrett. Weekly Underw 146:1279-82 Je 6 '42; Same cond. il Nat Safety N 45:10-11, 70-4 Je '42

Fire ravages industry. C. B. White. il Safety Eng 84:54-6 O '42

Huge loss in spectacular fire at Kewanee, Ill. Nat Underw 46:3 Ap 16; 4+ Ap 23 '42

Increasing fires leading to "no smoking" rules. Nat Safety N 45:90 Ap '42

Law on liability for property damage caused by fire. F. W. Davies. East Underw 43:22 S 4 '42

Million dollar Baltimore fire; warehouse of Western auto supply company. il Nat Underw 46:3 Ag 6 '42

Photographic record of defense fires. Nat Underw 45:17 N 20 '41

Smoke and fire gases; toxic constituents. W. H. Easton. bibliog Ind Med 11:466-8 O '42

Static is a dangerous firebug. Nat Safety N 45:96 F '42

Store chemicals carefully; spilled phosphorus sets fire to firemen's rubber boots and to factory. Safety Eng 83:39 Ap '42

See also

Bombs, Incendiary
Chemical plants—Fires and fire protection
Electric fires
Electric plants (central stations)—Fires and fire protection
Fire extinction
Fire protection
Forest fires
Inflammable mixtures
Insurance, Use and occupancy
Oil fires
Piers—Fires and fire protection
Power plants—Fires and fire protection
Ships—Fires and fire protection

Statistics

Fire facts; ten most common fire causes, some fires causing large loss of life, annual fire losses by occupancies. Spectator (Property ed) 8:58 S 17 '42

Mr X boosts losses of Philadelphia fires. Weekly Underw 146:777 Ap 4 '42

FIRESTONE, Harvey Samuel, jr. 1898-

President of Firestone. por Barron's 21:5 D 1 '41

FIRESTONE

Lining the cupola with firestone. S. G. Koon. Foundry 70:128-31 F '42

FIRESTONE tire and rubber company

Annual report. Comm & Fin Chr 155:50-1 Ja 3 '42

Expediters are the cure for production headaches; Firestone beats production promises. il Factory Management 100:81-2+ O '42

Mail order entry; Firestone launches catalog business designed to keep retail outlets alive. il Business Week p68+ O 31 '42

Rubber concerns converted for war. J. A. McWethy. Barron's 22:7 My 11 '42

FIREWORKS

Federal explosives act revised on firecrackers. Oil Paint & Drug Rep 141:3+ Je 15 '42

Accidents

Injured party may recover on license bond of fireworks exhibitor without proof of negligence of principal. Weekly Underw 146:457 F 21 '42

FIRING

Hand-firing of bituminous coal in the home. A. P. Kratz, J. R. Fellows and J. C. Miles. il diags Ill U Eng Exp Sta Circ 46:3-33 '42 (pa 25c)

See also

Boilers—Firing
Combustion
Fuel
Furnaces
Furnaces, Enameling—Firing
Glass furnaces—Firing
Kilns—Firing
Stokers, Mechanical

FIRST aid in illness and injury

After the accident—what? Nat Safety N 45:26 Ja '42

Burns and first aid for burns. M. N. Newquist. Nat Safety N 45:80-1 Ap '42

Caring for the injured. il Nat Safety N 45:148-9+ Mr '42

Eagle first aid manual. A. R. Macoskey, ed. 18p pa 25c Eagle lib, Brooklyn, N.Y. '42

Emergency field kit. il Ind Med 11:403 Ag '42

Emergency medical service for catastrophes; organization for Detroit metropolitan area and Oakland county. J. S. Lambie. Ind Med 11:248-50 Je '42

First aid decontamination stations. il plans Arch Forum 76:61-2 Ja '42

First aid for boys. N. B. Cole and C. H. Ernst. 2d rev ed 190p $2 Appleton-Century '42

FIRST aid in illness and injury—*Continued*

First aid for the industrially injured; by whom, with what, and how much? C. Leggo. Ind Med 11:481-2 O '42

First aid in a bank. F. J. Keeler. il Banking 35:42-3 Ag '42

First aid in emergencies. E. L. Eliason. 11th ed 260p, 16p $1.75 Lippincott '42

First aid in enemy action; Red Cross training. L. M. Thompson. il Safety Eng 83:37-8 F '42

First aid, popular; a basic first aid course, a picture supplement to all first aid textbooks. F. Kahn. 56p pa 60c F. Krause, 851 W. 177th st, New York '42

First aid primer. H. L. Wenger and E. Sense. 104p $1 M. Barrows and co, New York '42

First aid through photographs. L. S. Michaelis. 64p 70c Longmans '41

Gas first aid kits and treatment; Honolulu water works. F. Ohrt. Am Water Works Assn J 34:1157-62 Ag '42

Handbook of first aid. 72p U.S. Office of civilian defense, Washington '41

How well do you know first aid? I. Appleby. 95p pa $1 Irving Appleby, Wilmington, Mass.

I served at Pryor; experience in rescue work in tornado; need for thoroughly trained first aiders. L. F. Voorheis. Nat Safety N 46:38 S '42

If bombs fall! your health and safety in wartime. G. Baehr and others. 96p pa 25c Review and herald pub. assn, Takoma park, Washington, D.C. '42

If it happens here; first-aiders demonstrate their preparedness; Western Electric Kearny works. il Nat Safety N 45:12-13 Ap '42

Mechanism of action of ordinary war gases. C. D. Leake and D. F. Marsh. bibliog Science 96:194-7 Ag 28 '42

Medicine versus invasion; the Home guard medical service in action. G. B. Shirlaw and C. Troke. 208p 7s 6d Secker and Warburg, London '41

No stone unturned; first aid training is helping to develop safety-minded organizations. J. B. Dunne. il Nat Safety N 46:62-3+ O '42

Novel first-aid instructors association. A. A. Munsch. U S Bur Mines Information Circ 7201:1-23 '42

Safety through first aid. G. B. Horn. Nat Safety N 45:97 F '42

Until the doctor comes. J. A. Dolce. (Misc. pub. 21) 60p U.S. Public health service, Washington; pa 10c Supt. of doc. '41

Very first aid. D. Gould. 45p 50c Oxford '42

Wartime first aid for everyman. E. G. Bailey. 96p 1s 6d Univ. of London press, Bickley, Kent, England '42

See also

Electricity, Injuries from

Respiratory apparatus

FIRST Boston corporation

Annual report. Comm & Fin Chr 155:567 F 5 '42

FIRST difference

Obtaining differences from punched cards. H. P. Hartkemeier and H. E. Miller. chart Am Statis Assn J 37:285-7 Je '42

FIRST national stores, inc.

Annual report. Comm & Fin Chr 156:252 Jl 20 '42

FIRST reinsurance company of Hartford

First re charter to be offered for selling. East Underw 43:42 Mr 6 '42

FIRST security corporation of Ogden

Earnings, years ended Sept. 30, 1938-1941. Comm & Fin Chr 155:189 Ja 13 '42

FISCAL year

Auditing under wartime conditions; joint report of committee on auditing procedure of American institute of accountants and committee on practice procedure of New York state society of certified public accountants. J Account 74:113-24 Ag '42

FISCHER reagent

Analytical procedures employing Karl Fischer reagent; reactions with inorganic oxides and related compounds; oxidation and reduction reactions. J. Mitchell, jr. and others. bibliog Am Chem Soc J 63:2927-30 N '41

Analytical procedures employing Karl Fischer reagent; the determination of water of hydration in salts. W. M. D. Byrant and others. bibliog Am Chem Soc J 63:2924-7 N '41

Volumetric determination of moisture in cotton textiles. J. F. Keating and W. M. Scott. bibliog Am Dyestuff Rep 31:308-10 Je 22 '42

FISH, Canned. See Canned fish

FISH, Frozen

All-America package competition; award to the Atlantic Coast fisheries co. il Mod Packaging 15:130-1+ Ap '42

Scientific research and the fish industry. G. A. Reay. Chem & Ind 61:281-3 Je 27 '42

FISH, Smoked

Engineering problems of the smoke-curing of fish. C. L. Cutting. il diags Chem & Ind 61:365-8 Ag 29 '42

FISH as food

Fats of fish. J. A. Lovern. Chem & Ind 61:335 Ag 1 '42

Freshening salted fish; patent. Food Ind 14:109 N '42

Pictures of processes; how General seafoods corp., Boston, prepares fish for the market. Food Ind 13:56-9 D '41

Scientific research and the fish industry. G. A. Reay. Chem & Ind 61:281-3 Je 27 '42

Scientific research in the fish industry; food group discussion. Chem & Ind 61:144-5 Mr 21 '42

Use of the pH value as a measure of the freshness of fish muscle tissue; abstract. F. Charnley and D. H. Goard. Food Ind 14:110 Je '42

Vitamin-A in fish. J. A. Lovern. Chem & Ind 61:222-3 My 16 '42

See also

Sardines

Preservation

Some bacteriological aspects of fish preservation. J. M. Shewan. Chem & Ind 61:312-14 Jl 18 '42

See also

Canned fish

Fish, Smoked

FISH hooks. See Fishhooks

FISH meal

Fish meal prices ceiled. Oil Paint & Drug Rep 141:5+ Ja 26 '42

FISH oil

American balance sheet in oils and fats. W. J. Murphy. Chem Ind 50:624-6 My '42

British Columbia trade in grayfish, halibut, cod and shark liver oil. For Comm W 6:24-5 Ja 31 '42

British Columbia's production of fish livers, 1941. For Comm W 8:25 Jl 25 '42

Canary Island fish livers. For Comm W 8:27 S 12 '42

Chemistry and technology of marine animal oils with particular reference to those of Canada. H. N. Brocklesby, ed. (Bul. 59) 442p Canada. Fisheries research board, Ottawa '41

Fats of fish. J. A. Lovern. Chem & Ind 61:335 Ag 1 '42

Fish oil treatment; patent. Food Ind 14:108-9 N '42

New source of fish oil vitamins in Peru. Science 94:sup14 D 26 '41

Oil from the liver of the cação. For Comm W 6:22 Ja 10 '42

Uruguay produces vitamin-rich fish-liver oils. For Comm W 9:10 O 3 '42

Vitamin oil suit; Seattle fishing groups indicted on charges of maintaining prices illegally. Business Week p93-4 S 12 '42

FISH oil—*Continued*

Vitamin oils in South Africa; possible industrial use. Chem Age (Lond) 45:279 N 29 '41

See also

Cod liver oil
Dogfish liver oil
Shark liver oil

Statistics

Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter

FISH poisons

Active principles of leguminous fish-poison plants; robustic acid. S. H. Harper. Chem Soc J p 181-2 F '42

Copper sulphate for aquatic nuisances; toxic effects upon fish. L. F. Warrick, F. J. McKee and A. E. Bartsch. Pub Works 73:21+ S '42

Toxicity of sodium pentachlorophenate and pentachlorophenol to fish. C. J. Goodnight. bibliog Ind & Eng Chem 34:868-72 Jl '42

FISH scaling. See Enamel and enameling—Defects

FISH trade

Not enough fish. Business Week p30+ S 19 '42

See also

Salmon

Argentina

Argentina production and imports of fish, 1939 and 1940. For Comm W 6:25 Mr 28 '42

Bahama islands

News by commodities. For Comm W 7:21 Ap 25 '42

Great Britain

Supply of fish. Economist 143:488-9 O 17 '42

Iceland

Iceland's fish production, 1940 and 1941. For Comm W 7:21 My 9 '42

Ireland

More fish for Eire; quantity and value, Jan.-June 1940 and 1941. Economist 141:484 O 18 '41

Morocco

Fish production, Spanish Morocco, 1936-1940. For Comm W 7:22 Ap 18 '42

New England

Good fishing; New England catch runs far ahead of '40. Business Week p55+ D 6 '41

Newfoundland

News by commodities. For Comm W 6:20 Ap 4 '42

FISH waste

Prices

Fish scrap prices pegged by OPA. Oil Paint & Drug Rep 141:4+ Ap 6 '42

FISHBACK, Margaret

Sappho of Seventh avenue. S. Jones. por Adv & Sell 34:42, 44 D '41

FISHERIES

Anti-injunction act not applicable to sales of commodities. Monthly Labor R 54:702-3 Mr '42

Conservation of fisheries in the Great Lakes. Science 96:398 O 30 '42

See also

Cod fisheries
Salmon
Sardines

Puerto Rico

Commercial fisheries to be developed in Caribbean area. For Comm W 7:21 My 9 '42

Fish for defense. Business Week p42 Mr 21 '42

United States

Ickes fishery coordinator. Comm & Fin Chr 156:375 Jl 30 '42

Not enough fish. Business Week p30+ S 19 '42

FISHERMEN

Monthly wages of German deep-sea fishermen. Monthly Labor R 54:770 Mr '42

NWLB sea victory; owners of fishing fleet change attitude. Business Week p74 Mr 7 '42

War risk insurance on commercial fishermen. Weekly Underw 146:1006 My 2 '42

FISHES

Vitamin-A in fish. J. A. Lovern. Chem & Ind 61:222-3 My 16 '42

See also

Fish as food
Photography of fishes
Rays (fish)
Salmon
Sardines
Trout fishing

Migration

Return of a marked salmon from a distant place. A. G. Huntsman. bibliog Science 95:381-2 Ap 10 '42

Transportation

Air-conditioning fish; mechanical means provide oxygen, keep temperature low when transporting hatchery fish. F. W. Taber. il Sci Am 166:240-1 My '42

FISHES, Fossil

Certain American paleozoic fishes. A. S. Romer. bibliog pl Am J Sci 240:216-28 Mr '42

Description of fossil fishes from the upper cretaceous of North America. J. H. Dante. bibliog Am J Sci 240:339-48, pl 1-2 My '42

FISHHOOKS

Fishhook crisis. Business Week p22+ D 20 '41

Fishing gloom; tackle manufacturers can't even use plastic now; fishhook makers output cut 50%. Business Week p34+ Je 20 '42

FISHING

See also

Trout fishing

FISHING boats

Illinois, Diesel trawler. il diag Marine Eng 46:118 N '41

FISHING tackle

Incomplete angler. Franklin Inst J 233:297-8 Mr '42

See also

Fishhooks

FISK, Arthur A.

Tribute to retiring veteran life advertiser. F. J. Price, jr. por Weekly Underw 146:448 F 21 '42

FISSION of nucleus. See Atoms—Disintegration

FITS (machinery)

Acheson colloids corporation; use of Oildag for coating the mating surfaces prior to fitting. Aeronautical Eng R 1:53 My '42

Allowances for shaft fits; reference book sheet. R. P. Valtier. Am Mach 86:973 S 3 '42

Colloidal graphite cuts assembly time. Iron Age 149:62 Ap 30 '42

Designing shrink-fit assemblies. J. Marin. il diags Machine Design 14:68-73 Je; 72-5 Jl; 78-83+ Ag '42

Fits and tolerances; examples of all classes. E. Geiger. diags Product Eng 13:278-80 My '42

Formulas for calculating press fits in aluminum rings. H. N. Hill. diag Product Eng 13:659 N '42

Tolerances and allowances; nomographic determination; reference book sheet. Product Eng 13:305-6 My '42

FITZGERALD-LORENTZ contraction. See Lorentz-Fitzgerald contraction

FIVE- and ten-cent stores

5 & 10 and what? seek new competitive weapons, including advertising. Business Week p63-5 Je 20 '42

5 & 10 sales show normal seasonal gain, Dec. and 1940 and 1941. Comm & Fin Chr 155:347 Ja 22 '42

Five-and-tens under war conditions. H. Lawrence. Barron's 22:20 F 23 '42

FIVE- and ten-cent stores—*Continued*

How to promote the sale of your wares through the dime stores. F. W. Nye. il Sales Management 51:22-4 S 15 '42

How variety stores evaluate sales helps. il Mod Packaging 15:69-73 F '42

How will the war affect the five & dime business? J. Reiss. il Sales Management 51:18-20 Ag 1 '42

Why department and variety store sales showings differ. Barron's 22:12 Jl 20 '42

See also

Murphy, G. C., company

Woolworth, F. W., company

FIVE-day week. See Hours of labor—Five-day week

FLAGS

Boom in flags. il Business Week p51-2 Mr 14 '42

Fabrics for military purposes; banner silk substitute. Textile World 92:68 My '42

Flag code. il Transit J 86:228 Je '42; Same. Coal Age 47:104 Jl '42

Flag in advertising. il Inland Ptr 109:44 Ag '42

Flag of the United States. il Banking 35:24-5 Jl '42

Flag of the United States. M. M. Quaife. 210p $2 Grosset & Dunlap, New York '42

Flag rules. il Am Mach 86:654a-654b Je 25 '42; Same. Power 86:474a-474b Jl '42; Same. Product Eng 13:398a-398b Jl '42; Same. Elec West 89:66 Jl '42

How to show respect for stars and stripes. Ptr Ink 199:54-5 My 22 '42

New world flag has premier in New York. Comm & Fin Chr 156:362 Jl 30 '42

United we stand; the story of our flag. il Barron's 22:1 Jl 6 '42

Use of the flag in packaging. Mod Packaging 16:70 O '42

FLAKICE

FlakIce machines in units. C. P. Holley. il Refrig Eng 43:23-4 Ja '42

FLAME propagation

Prevention of fires, explosions, and accidents from inflammable fluids. G. M. Kintz. Pet Eng 13:77+ Je; 75-6+ Jl '42

FLAMES

Advances in fast surface hardening; gas-air flame hardening. F. O. Hess. il diags Metal Prog 42:399-403 S '42

Aerated burner flames; abstract. J. S. Forsyth and D. G. R. Davies. Engineering 153:314-15 Ap 17 '42

Flame hardening with city gas. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:871-4, 947-9, 1012-14, 1088-90 Ag 20-O 1 '42

Fluid flames; study of the relation of combustion to flame shape. Tech R 44:470 Jl '42

Stability of aerated burner flames; abstract. J. E. Garside and A. R. Hall. Engineering 153:315-16 Ap 17 '42

See also

Combustion

Gas burners

Inflammable liquids

Inflammable mixtures

Oxyacetylene flame

FLANDERS, Ralph Edward, 1880-

Appointed to the Economic stabilization board. por Mech Eng 64:822 N '42

FLASHING

Eighteen miles of sheet copper; expansion joints and flashing for plant of Republic aviation corp. il diags Sheet Metal Worker 33:23-5 Je '42

Wide extrusions; U.S. navy, already a large user of plastic materials, has adopted extruded vinyl for flashing and capping strips. il Mod Plastics 20:44+ S '42

FLASHLIGHT photography. See Photography, Flashlight

FLASHLIGHTS, Electric. See Electric flashlights

FLATIRONS. See Electric irons

FLATS, Optical. See Optical flats

FLAVIANATES

Solubility of the flavianates of certain organic bases in water, ethanol, and *n*-butanol at 3 and 30°. W. D. Langley and T. R. Noonan. Am Chem Soc J 64:2507 O '42

FLAVONES

Analysis

Determination of certain quercetinlike substances using a Klett-Summerson photoelectric colorimeter. C. W. Wilson, L. S. Weatherby and W. Z. Bock. Ind & Eng Chem Anal ed 14:425-6 My 15 '42

FLAVORING extract manufacturers association

Annual convention, 38th, New York, May 18-20. Oil Paint & Drug Rep 141:7+ My 25 '42

FLAVORING materials

It isn't just tobacco; flavors from various parts of the world used in processing all tobacco products. E. M. Schwartztrauber. il For Comm W 8:6-9+ Ag 29 '42

New developments in flavor; abstract. B. H. Smith. Food Ind 14:110 Jl '42

Using fruit purées to get new flavors in ribbon ice cream. D. K. Tressler. il Food Ind 14:49-51+ S '42

See also

Essential oils

Spices

Vanillin

Statistics

Synthetic aromatics output, 1941; compared with 1940; tabulation. Oil Paint & Drug Rep 142:50 S 28 '42

FLAX

Breeding flax resistant to rust. A. C. Dillman. il Oil Paint & Drug Rep 142:3, 40B O 26 '42

Canadian flax industry. Textile Col 64:252 My '42

Egyptian flax trade. For Comm W 7:23 Ap 11 '42

Expansion of the flax industry in Quebec province. For Comm W 6:24 Mr 14 '42

Flax acreage increase seen. Oil Paint & Drug Rep 141:7+ Ap 20 '42

Flax acreage increase urged. Oil Paint & Drug Rep 140:7+ D 1 '41

Flax and its products. Textile Col 64:167-72+ Ap '42

Flax and its products, production and utilization. 30p pa 10c Textile foundation, Washington, D.C. '42

Flax crop estimates cut 22% by rust. Oil Paint & Drug Rep 142:7+ Ag 3 '42

Flax's happy days. Business Week p42-4 N 29 '41

Microscopic structure of flax and related bast fibers. C. W. Hock. bibliog il Am Dyestuff Rep 31:334-42 Jl 6 '42; Same. J Research Nat Bur Stand 29:41-50 Jl '42

Peruvian flax industry; abstract. B. B. Robinson. Science 95:sup9-10 F 20 '42

Processing of flax in U.S.A. planned. Rayon 23:328 Je '42

Progress report on the process and utilization of domestic flax. H. Bunger, J. L. Taylor and C. A. Jones. flow diag il Am Dyestuff Rep 30:673-8 D 8 '41

See also

Linen

FLAXSEED

Cottonseed, linseed pricing plan issued. Oil Paint & Drug Rep 142:3+ S 7 '42

Flaxseed loan rates for 1942 issued. Oil Paint & Drug Rep 141:7+ Ap 20 '42

Vegetable oils that U.S. needs from American tropics. K. S. Markley. Oil Paint & Drug Rep 142:53+ Ag 10 '42

Prices

Flax floor for loans put at $2.40 per bushel. Oil Paint & Drug Rep 142:5+ Ag 31 '42

FLAXSEED oil. See Linseed oil

FLEAS

Flea and louse control. il Soap & San Chem 17:115-17 D '41

FLEAS—*Continued*
Siphonaptera; the genera amphalius and ctenophyllus in North America. W. L. Jellison. il map Pub Health Rep 56:2341-9 D 5 '41

FLEAS as carriers of infection
Role of the burrowing owl and the sticktight flea in the spread of plague. C. M. Wheeler, J. R. Douglas and F. C. Evans. Science 94:560-1 D 12 '41

FLEISSNER process. See Coal drying

FLEMING, Philip Bracken, 1887-
Fleming made head of Federal works agency. por Eng N 127:768 N 27 '41

FLETT, Lawrence H.
To receive 1942 Schoellkopf medal. Oil Paint & Drug Rep 141:7+ Mr 23 '42

FLEXIBILITY
Vinyl elastomers; low-temperature flexibility behavior. R. F. Clash, jr. and R. M. Berg. bibliog il diag Ind & Eng Chem 34:1218-22 O '42

FLEXURE
Buckling of compressed bars by torsion and flexure. J. N. Goodier. 32p pa 50c Cornell univ, Engineering exp. station, Ithaca, N.Y. '41
See also
Elasticity
Strains and stresses
Strength of materials

FLICKER
Flicker reduction affords comparison of alternatives. J. W. Anderson. diag Elec W 118:284-7 Jl 25 '42

FLIES
Destruction of housefly larvae and pupae in sewage sludge beds; spraying with no. 2 Diesel oil; army reservation at Camp Shelby, Mississippi. H. Spencer, J. C. Hedden and L. B. Dworsky. il Pub Works 73:17-18 Ag '42
Stable flies in Florida. F. Thone. Science 95:sup9 F 20 '42

FLIES as carriers of infection
Flies as carriers of poliomyelitis virus in urban epidemics. A. B. Sabin and R. Ward. Science 94:590-1 D 19 '41; Abstract. Sci Am 166:184 Ap '42
Insects as carriers of poliomyelitis virus. C. T. Brues. Science 95:169-70 F 13 '42; Discussion. A. B. Sabin and R. Ward. 95:300-1 Mr 20 '42

FLIGHT
Biological and aerodynamical problems of animal flight. E. von Holst and D. Kuchemann. diags Roy Aeronautical Soc J 46:39-56 F '42
Simple experiments in the theory of flight. M. C. Nokes. 75p $1.25 Ryerson press '41
See also
Aerodynamics
Aeronautics
Aviation

FLIGHT strips. See Aviation landing stations

FLINT
Influence of flint particle size on permanent moisture and thermal expansion in porous earthenware bodies. W. E. Palmer. bibliog Am Cer Soc J 25:413-16 O 1 '42

FLINTKOTE company
Annual report. Comm & Fin Chr 155:1510 Ap 13 '42
Listing, acquisition, etc. Comm & Fin Chr 154:1263 N 29 '41

FLOCCULATION
Coal washing and flocculation. il Mech Handling 29:134-5 Jl '42
Sedimentation and flocculation. M. B. Donald. bibliog Inst Chem Eng Trans 18:24-8; Discussion. 28-35 '40
Treatment of filler for newsprint; clariflocculator tank at Baie Comeau. C. Dobell. il diags Pulp & Pa of Can 43:727-8 Ag '42

FLOCK
Flock; its manufacture, application, and uses. J. B. Dow. Textile Col 64:238-40 My '42; Same. Rayon 23:387, 473-4 Jl-Ag '42

FLOCK covered fabrics
Flock; its manufacture, application, and uses. J. B. Dow. Textile Col 64:238-40 My '42; Same. Rayon 23:387, 473-4 Jl-Ag '42

FLOOD control
Central Valley project. il map Engineer 173:518-21 Je 19 '42
Defense against deluge; Whitney Point dam provides protection to New York state area devastated in 1935 flood disaster. R. Siegrist. il diags maps Explosives Eng 20:45-52 F '42
Drainage of leveed areas in mountainous valleys. G. R. Williams. Am Soc C E Proc 68:3-16 Ja '42; Discussion. 68:143-4, 612-14, 827-36, 1009-12, 1619-22 Ja, Ap-Je, N '42
Federal dam projects require many railroad relocations. il Ry Age 111:1073-7 D 27 '41
Fen flood protection. map Engineer 174:218-19, 233-5, 254-5 S 11-25 '42
Flood control for the Yazoo valley, Miss. G. A. Morris. il maps Civil Eng 12:243-6 My '42
Headline projects of 1941. il Eng N 128:124-9 Ja 15 '42
Mud Mountain dam on the White river, Washington, U.S.A. il diags Engineering 154:1-3, 10, 41-3, 50 Jl 3, 17 '42
Operation experiences, Tygart reservoir. R. M. Morris and T. L. Reilly. il diag map Am Soc C E Proc 67:569-93 Ap '41; Discussion. 67:1465-8; 68:161-3 O '41, Ja '42
Power dominates river development in 1941. H. W. Richardson. il map Eng N 128:101-4 Ja 15 '42
Putting a river underground; pressure conduit to carry the Park river underground through Hartford, Conn. il diag map Eng N 128:180-3 Ja 29 '42
Radio for flood emergencies; Los Angeles County flood control district control works. M. E. Kennedy. il Eng N 128:353-4 F 26 '42
Report of the Boston society of civil engineers' committee on floods; flood control programs and works. bibliog maps Boston Soc C E J 29:130-43 sec 2 Ja '42; Discussion. 29:82-97 Ap '42
Research for flood control data; guide to printed material. G. E. Larson. il map Civil Eng 12:131-4 Mr '42
River channel tailored to avert washouts; Little Dalles river, Washington. il Comp Air M 47:6667-8 F '42
Rolled-fill methods at Sepulveda dam. J. G. Morgan. il diags Eng N 129:170-2 Jl 30 '42
Statistical analysis in hydrology. L. R. Beard. Am Soc C E Proc 68:1077-88 S '42: Discussion. 68:1458-64, 1661-9, 1847-9 O-D '42
Testing theoretical losses in open channel flow. J. G. Jobes and J. H. Douma. il Civil Eng 12:613-15 N '42 (to be cont)
Three dams to end Houston floods. il map Eng N 129:239-40 Ag 13 '42
Toby Creek pressure conduit. J. T. Starr. il map Civil Eng 12:99-101 F '42
Unusual events and their relation to federal water policies. W. G. Hoyt. il Am Soc C E Proc 68:216-17 F '42; Discussion. 68:619-24, 1199-1204 Ap, S '42
See also
Dams
Levees
Reservoirs
Rivers—Regulation

Cost

Pumping station, Hanover township, Pa.; unit prices. Eng N 127:754 N 20 '41

Economic aspects

Basic economic considerations affecting single and multiple purpose projects. O. M. Page. il Am Soc C E Proc 68:411-20 Mr '42; Discussion. 68:1237-8 S '42
Evaluation of flood losses and benefits of control. E. E. Foster. Am Soc C E Proc 67:805-28 My '41; Discussion. 67:1377-82, 1591-1602, 1933-4; 68:332-8 S-O, D '41, F '42

FLOODLIGHTS. See Light projection

FLOODS

Evaluation of flood losses and benefits of control. E. E. Foster. Am Soc C E Proc 67:805-28 My '41; Discussion. 67:1377-82, 1591-1602, 1933-4; 68:332-8 S-O, D '41, F '42

Flood hydrographs. G. G. Commons. Civil Eng 12:571-2 O '42

Law of overflow; abstract. L. T. Parker. Am Water Works Assn J 34:1275-6 Ag '42

Many localities hit by floods as streams rise. Eng N 128:585 Ap 16 '42

Proceedings of the Hydrology conference, held at State College, Pa., June 30-July 2, 1941. F. T. Mavis, ed. (School of engineering tech. bul. 27) 270p pa $2 Pennsylvania state college, State College, Pa. '42

Statistical analysis in hydrology. L. R. Beard. Am Soc C E Proc 68:1077-88 S '42; Discussion. 68:1458-64, 1661-9, 1847-9 O-D '42

Underground storage for floods assures army camp water supply. C. G. Beardslee. il Eng N 128:406-7 Mr 12 '42

See also

Flood control
Railroads—Damage from floods, storms, etc.
Rain and rainfall

California

Flood deposits of Arroyo Seco, Los Angeles county, California. W. C. Krumbein. bibliog diags maps Geol Soc Bul 53:1355-1402, pl 1-7 S '42

Radio for flood emergencies; Los Angeles County flood control district control works. M. E. Kennedy. il Eng N 128:353-4 F 26 '42

Great Britain

Fen flood protection. map Engineer 174:218-19, 233-5, 254-5 S 11-25 '42

Houston, Texas

Three dams to end Houston floods. il map Eng N 129:239-40 Ag 13 '42

Mississippi

Flood control for the Yazoo valley. G. A. Morris. il maps Civil Eng 12:243-6 My '42

New England

Report of the Boston society of civil engineers' committee on floods. bibliog il maps Boston Soc C E J 29:1-160 sec 2 Ja '42; Discussion. 29:82-97 Ap '42

New Mexico

Pipe line broken by flood. H. Padgett. Am Gas J 156:24-5 Je '42

New York (state)

Defense against deluge; Whitney Point dam provides protection to New York state area devastated in 1935 flood disaster. R. Siegrist. il diags maps Explosives Eng 20:45-52 F '42

Pennsylvania

Flash floods destroy highway bridges, roads and railroads. il Eng N 128:884 My 28 '42

New Pennsylvania flash floods wreck Allegheny River bridges, facilities. il Eng N 129:124 Jl 23 '42

Operation experiences, Tygart reservoir. R. M. Morris and T. L. Reilly. il diag map Am Soc C E Proc 67:569-93 Ap '41; Discussion. 67:1465-8; 68:161-3 O '41, Ja '42

Pennsylvania pushes flood clean-up. Eng N 128:954 Je 11 '42

Pennsylvania sets flood damage losses. Eng N 129:273 Ag 27 '42

Repairing damage from May 1942 flood in Pennsylvania. J. L. Herber. il map Civil Eng 12:620-3 N '42

Sudden floods disrupt service in anthracite region. Ry Age 112:1097-8 My 30 '42

United States

Heavy rains bring near-record floods in three states and Nation's capital. Eng N 129:534 O 22 '42

New floods occur in East and Midwest. Eng N 128:1040 Je 25 '42

FLOOR cleaning

Clean floors; removing dirt is a logical starting point for program of safety, sanitation. il Nat Safety N 46:66-7+ O '42

Cleaners for painted and varnished surfaces; cleaning waxed floors. C. T. Small. Chem Ind 51:386 S '42

Floor maintenance; conservation of floors and floor maintenance materials. R. Jarden. il Soap & San Chem 18:28-9, 67+ O '42

FLOOR coverings

Floor covering failures related to humidity and temperature; Bureau of standards investigation. Eng N 129:349 S 10 '42

Specification standards for government work. H. R. Sleeper. Arch Rec 91:64 Mr '42

See also

Carpets
Rugs

Testing

Performance test of floor coverings. Franklin Inst J 233:582-3 Je '42

FLOOR finishes

Colorflex-plus. il Ry Age 112:554 Mr 14 '42

FLOOR wax

Floor maintenance; conservation of floors and floor maintenance materials. R. Jarden. il Soap & San Chem 18:28-9, 67+ O '42

Manila gums; the use of Manila copals in bright drying floor waxes. R. W. Allan. bibliog il Soap & San Chem 17:118-21+ D '41

What is happening to floor waxes? C. S. Kimball. bibliog il Soap & San Chem 18:94-7 F '42

Testing

Safety factor in floor waxes; a review of testing procedure developed by insurance companies for determination of slip hazards. diag Soap & San Chem 18:95-6+ Ap '42

FLOORING

Athlete's foot; infection reduced by new flooring, copper cement material called Hubbellite; abstract. W. L. Mallmann. Sci Am 166:11 Ja '42

Prefinished flooring speeds war housing. il Am Bld 64:116 Ap '42

Select floor materials to suit plant needs. R. Kanegsberg. il Food Ind 14:56-8 Jl; 53-5 Ag '42

Prices

Wholesale prices of southern yellow pine boards and flooring; new series, monthly, 1926-1941. Survey of Cur Business 22:22 Ap '42

FLOORING, Rubber

Rubber flooring and stair treads in Rochester hospital. il Am Bld 63:97 D '41

FLOORS

Construction of smaller buildings; comparative data on floor systems; with time-saver standards. W. H. Hayes. diags Arch Rec 91:82 My '42

FPHA jig tables for field assembly. il diags Arch Forum 76:203 Ap '42

Floor maintenance; conservation of floors and floor maintenance materials. R. Jarden. il Soap & San Chem 18:28-9, 67+ O '42

Heat loss through basement walls and floors. F. C. Houghten and others. il diags Heating-Piping 14:69-74 Ja '42; Discussion. 14:271-2 Ap '42

Limited deflection of floorbeams. P. Hessemer. Eng N 127:896-7 D 18 '41

Reflection factors of floor materials. P. Moon. Opt Soc Am J 32:238-42 Ap '42

Space heating by means of electrically warmed floors, as applied to surface-type air-raid shelters; with cost data. R. Grierson. plan Inst E E J 89 pt 2:4-34 F '42; Discussion. 89 pt 2:34-44, 242-8 F, Je '42

See also

Bridges—Floors
Elevator floors
Factories—Floors
Food factories—Floors
Pavements
Ships—Deck coverings

FLOORS—*Continued*

Anti-slip surfaces

Factory flooring. il Nat Safety N 45:103-4+ Mr '42

Non-slippery flooring. il Blast F & Steel Pl 30:1172 O '42

Safety factor in floor waxes; a review of testing procedure developed by insurance companies for determination of slip hazards. diag Soap & San Chem 18:95-6+ Ap '42

Safety takes the floor. S. X. Newman. il Safety Eng 84:13 Jl '42

Repair

Home repair and maintenance. il Consumers' Research Bul 9:17-19 D '41

New flooring peps up an old building. il Am Bld 64:51-3 S '42

Testing

Spring scale measures deflections of loaded floors. F. M. Weakley. diag Eng N 128:934 Je 4 '42

FLOORS, Cement

Newest for floors, white cement. il Factory Management 100:129 N '42

Right cleaning saves floors; cleaners for various types of factory floors. R. W. Mitchell. il Factory Management 100:105-6 F '42

White cement floor successful light reflector. il Eng N 128:1037 Je 25 '42

White cement floors for better light; bomber assembly plants. il Eng N 128:398-400 Mr 12 '42

FLOORS, Concrete

Concrete floors on ground offer business to concrete contractors. diag Concrete 50:14+ O '42

Construction of smaller buildings; comparative data on floor systems; with time-saver standards. W. H. Hayes. diags Arch Rec 91:82 My '42

Eyes have it; higher visibility in plants testing white concrete floors. il Business Week p66+ Je 13 '42

Grid system floor of record spans; service building for Chevrolet motor co. S. D. Szego. il diag Eng N 128:16-18 Ja 1 '42

Hollow floors for radiant heating. F. E. Markus. diags Heating-Piping 14:176 Mr '42

Light-reflecting concrete for factory floors. M. A. Berns. il Civil Eng 12:556-8 O '42

Maintaining, repairing, and converting industrial plants for war work. il diags Am Bld 64:52-3+ O '42

New precast floor slab; information on Flexicore. il diag Am Bld 64:50-1 Ag '42

Place acres of concrete warehouse floors at quartermaster depot. il Concrete 50:5+ F '42

Precast joist concrete floors; with time-saver standards. diags Arch Rec 91:59-62 Mr '42

Reinforced concrete creates second floor within old industrial building. il Concrete 50:2-3 Je '42

Remodeling construction; time-saver standards. C. T. Sigman. diags Arch Rec 91:52, 54 F '42

Saving steel in factory design; use of concrete cuts need for critical material. diags Am Bld 64:60+ Je '42

Studies of steel economy in concrete slabs and columns. A. J. Boase. Eng N 128:866-7 My 21 '42

War plant buildings without footings; unreinforced-concrete floor slabs, integral with wall sills and column pedestals. il diags Eng N 129:350-2 S 10 '42

Wire saves steel in concrete joists. il diags Eng N 128:930-2 Je 4 '42

Testing

Research proves value of precast concrete floor systems. E. W. Dienhart. diags Concrete 50:10-11+ Jl; 20-2+ Ag '42

FLOORS, Steel

Electrical Acme; electric wiring installed in cellular steel floor of brewery. il Elec West 88:42 Mr '42

FLOORS, Terrazzo. See Terrazzo

FLOORS, Wood

Remodeling construction; time-saver standards. C. T. Sigman. diags Arch Rec 91:52, 55 F '42

FLORENCE stove company

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 N 24 '41

FLORIDA

Florida hotel and travel guide. L. More, ed. 575p pa $1 Florida guide co, New York '42

See also

Cattle industry and trade—Florida

Phosphate rock—Florida

Water, Underground—Florida

FLORIDA east coast railway

Du Pont estate offers 16½% flat for deposited 5% bonds. Comm & Fin Chr 156:513-14 Ag 10 '42

ICC plan for Florida east coast railway; reorganization proposes drastic reduction in capitalization and fixed charges. A. Jansen. Barron's 22:19-20 My 11 '42

ICC rejects petition of bondholders' committee and du Pont estate trustees to reopen reorganization hearings. Comm & Fin Chr 156:694 Ag 24 '42

I.C.C. wipes out Florida East Coast equities. Ry Age 112:795 Ap 18 '42

Large holders of 1st & ref. 5s, to sell to du Pont estate. Comm & Fin Chr 156:781 Ag 31 '42

Objections to plan filed. Comm & Fin Chr 156:1501 O 26 '42

Railroad securities. Comm & Fin Chr 155:1693+ Ap 30 '42

Reorganization approved by ICC. Comm & Fin Chr 155:1598-9 Ap 20 '42

FLORIDA pulp and paper company

Florida pulp and paper co. starts new kraft paper mill at Pensacola. R. G. Seip. il Paper Tr J 113:35-8, 40, 44-50 N 27 '41

FLORISTS

Dated flowers. Sales Management 50:2 My 1 '42

FLOTATION agents

Controlling flotation reagents automatically; Cuban-American manganese plant. F. Trotter. il plan Eng & Min J 142:45-6 N '41

Flotation treatment of white water. E. N. Poor and H. A. Whitenight. bibliog diags Paper Tr J 114:21-4 F 26 '42

Fluorspar producer in Illinois tries quebracho extract in flotation. Eng & Min J 143:47 Ja '42

FLOTATION machines

Flotation impeller shaft guard. diags Eng & Min J 143:62 My '42

FLOTATION plants

Equipment

Making a three-metal separation at the Duquesne group; Callahan Zinc-Lead's flotation plant. J. B. Huttl. flowsheet il Eng & Min J 142:56-8 N '41

FLOTATION process

Advances in milling methods, 1941; flotation. A. W. Fahrenwald. il Min Cong J 28:71-2 F '42

All-flotation process for galena; abstract. M. A. Mawby. Chem & Met Eng 49:168 Jl '42

Beneficiation of alunite. A. Gabriel and J. Dasher. pls map U S Bur Mines Rep of Invest 3610:1-20 '42

Concentration of blast furnace flue dusts. S. M. Shelton and F. D. Lamb. flow sheet il Iron Age 149:57-9 Je 11 '42

Concentration of magnesitic dolomite from Kilmar, Quebec. il diag Can Min J 63:157-65 Mr '42

Domestic manganese from Butte helps in emergency; Anaconda's plant producing concentrates of ferro grade by flotation and nodulizing. J. B. Huttl. flowsheets Eng & Min J 143:56-8 Ja '42

FLOTATION process—*Continued*

Progress reports, Metallurgical; silver-recovery studies; some factors affecting flotation of the silver-bearing minerals tennantite and enargite. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3661:1-23 '42

Reclaiming metals and alloys from industrial wastes; mineral-dressing processes can be applied. W. E. Keck and F. A. Paciotti. Eng & Min J 143:50 Ja '42

Recovering slime cassiterite by soap flotation; Pirquitas plant, in Argentina. E. Oberbillig and E. P. Frink. Eng & Min J 142:54-7 D '41

FLOTATION process (non-metals)

Flotation treatment of white water. E. N. Poor and H. A. Whitenight. bibliog diags Paper Tr J 114:21-4 F 26 '42

Potash company of America; producer of sylvite at Carlsbad. R. A. Pierce and L. D. Anderson. il Eng & Min J 143:38-41 Ja '42

Recovering mica from kaolin by flotation and tabling. B. Nordberg. il Rock Prod 45:40-3+ S '42

Separation processes enter new fields. il diag Rock Prod 45:81-4+ Ja '42

FLOUR

Applied physics in cereal laboratory. C. H. Bailey. Can Chem & Process Ind 26:178 Mr '42

Cereal laboratory procedures; abstracts of papers at 28th annual meeting of American association of cereal chemists, Chicago. Can Chem & Process Ind 26:365-7+ Je '42

Changes in the physical properties of gluten with aging of flour; abstract. J. D. McKaig and A. G. McCalla. Food Ind 14:101 My '42

Chlorine dioxide used as flour bleaching agent; abstract. C. G. Ferrari and others. Food Ind 14:101 Mr '42

High-protein flour; soybean, peanut, and cottonseed yields added to wheat. Business Week p43-4 O 24 '42

High vitamin flours; their production, nutritive value and commercial utility. A. W. Alcock and R. K. Larmour. il Can Chem & Process Ind 26:3-9 Ja '42

Millers endorse program of flour enrichment. Food Ind 14:76 Je '42

Nation's food; cereals as food; chemistry of wheat and wheat products. R. G. Booth and others. bibliog Chem & Ind 60:903-8; 61:245-7 D 27 '41, My 30 '42

Our bread and milk; discussion of Wheatmeal bread or milk, by Dr N. C. Wright. A. L. Bacharach. Chem & Ind 60:791-5 N 8 '41

Technological aspect of food fortification. A. J. Amos and D. W. Kent-Jones. Chem & Ind 61:79-82 F 14 '42

Vitamins in flour. Chem Age (Lond) 45:243 N 8 '41

Wheat peeled for better bread; process developed by mining engineer retains grain elements. H. T. Rutledge. il Sci Am 166:25-6 Ja '42

See also
Peanut flour
Soybean flour

Analysis

Chemical determination of nicotinic acid content of flour and bread. D. Melnick, B. L. Oser and L. Siegel. bibliog Ind & Eng Chem Anal ed 13:879-83 D 15 '41

Determination of total and inorganic bromide in foods fumigated with methyl bromide. S. A. Shrader, A. W. Beshgetoor and V. A. Stenger. bibliog Ind & Eng Chem Anal ed 14:1-4 Ja 15 '42

Extraction and assay of nicotinic acid from animal and plant tissues; comparison of methods. V. H. Cheldelin and R. R. Williams. bibliog Ind & Eng Chem Anal ed 14:671-5 Ag 15 '42

Nicotinic acid content of cereals and cereal products; microbiological method of assay. J. S. Andrews, H. M. Boyd and W. A. Gortner. bibliog Ind & Eng Chem Anal ed 14:663-6 Ag 15 '42

Progress report on the collaborative study sponsored by the research corporation of methods for the determination of niacin in cereal products. Can Chem & Process Ind 26:367 Je '42

Riboflavin analysis of cereals; application of the microbiological method; comparison with fluorometric method. J. S. Andrews, H. M. Boyd and D. E. Terry. bibliog Ind & Eng Chem Anal ed 14:271-4 Mr 15 '42

Vitamin-B_1; estimation in wheatmeal and brown bread and stability of different forms of vitamin-B_1 during bread-making. E. R. Dawson and G. W. Martin. bibliog Soc Chem Ind J 61:13-18 Ja '42

FLOUR mills

Studies in practical milling. E. S. Miller. 618p $6 Miller pub. co., 118 S. 6th st, Minneapolis '41

Suffolk post mills. R. Wailes. il Engineering 152:464-5 D 12 '41

Employees

Earnings in the grain-mill products industries, 1941. F. Jones and B. L. Smith. Monthly Labor R 54:1006-16 Ap '42

FLOUR trade

Buy-flour drive; desire to vacate elevator space for 1942 wheat. Business Week p54-6 S 5 '42

Credit problem in sales; talk to salesmen in the flour industry. Credit & Fin Management 43:28-30 D '41

Customer is always right, but; Mrs Pierson's complaint in connection with packaging of Gold Medal flour. Adv & Sell 35:50+ N '42

General Mills' earnings record. Barron's 21:6 D 8 '41

Operating income hits new peak. Barron's 22:13 Ag 10 '42

Advertising

Premiums are continuous sales stimulator; Pillsbury flour mills. il Ptr Ink 200:19-20 Jl 24 '42

Statistics

Wheat-flour production by months, for crop years, 1940-1941, 1941-1942, and for 10-year average; graph. For Comm W 7:27 My 2 '42

FLOW. See Fluids

FLOW indicators

Underflow indicator. diags Eng & Min J 143:69-70 Je '42

FLOW meters

Air flow measurement by the dilution method. T. Hatch and R. H. Walpole, jr. diags Heat & Ven 39:24-6 Je '42

Centrimax flowmeter. il R Sci Instr 13:302-3 Jl '42

Cochrane high pressure flow meter. il Heating-Piping 14:sup127 Jl '42; Blast F & Steel Pl 30:917 Ag '42

Cochrane unifies flow meter sales story with visual presentation. W. C. Bennett. il Sales Management 51:55-7 Ag 15 '42

Compact gage units in steel cases save aluminum. il diags Product Eng 13:230-1 Ap '42

Direct determination of coefficients for flow meters. R. C. Binder. Instruments 15:196 Je '42

Flow bench testing of Stromberg injection carburetors. F. C. Mock. il Instruments 15:316, 318 Ag '42

Flow measurement of sewage and sludge; development of measuring devices. C. G. Richardson. Pub Works 72:40-1 D '41

Instruments in the pulp and paper industry. J. N. Franklin. Pulp & Pa of Can 43:817-20+ O '42

Investigations of methods and equipment used in stream gaging; performance of current meters in water of shallow depth. C. H. Pierce. U S Geol S Water-supply Pa 868-A:1-35, pl 1-27; pa 55c Supt. of doc. '41

Laboratory flowmeter with interchangeable precision-bore capillaries. F. C. Croxton. diag Ind & Eng Chem Anal ed 14:69-70 Ja 15 '42

FLOW meters—*Continued*

Laboratory pressure flowmeter. L. J. Brady and B. B. Corson. il diags Ind & Eng Chem Anal ed 14:656-7 Ag 15 '42

Measurement of the flow of liquids and gases. E. Ower. bibliog il diags Inst Chem Eng Trans 18:87-104; Discussion. 104-14 '40

Mechanism of flow of fluids through orifices; discussion of paper by J. M. Naiman. J. T. Cortelyou. Oil & Gas J 40:58-9, 61 D 11 '41

Metering flow; special section. F. A. Annett. diags Power 86:87-106 F '42

Metering modern sewage works. R. T. Regester. plan Water Works & Sewerage 89: sup194-5 Je '42

Null-type instrument for measuring low air velocities. L. Silverman. diags Heat & Ven 39:48 S '42

Re future of flowmeter types: float will rise and head will drop. K. Fischer. Instruments 15:20 Ja '42

Ring balance meters. il Chem & Met Eng 49: 109 Ja '42

Selection and installation of flow meters. R. E. Sprenkle. diags Instruments 15:75-82 Mr '42

To help eliminate a metering bottleneck; information on positive fluid meters. Instruments 15:287+ Ag '42

Use of meters for measuring production from individual wells. W. A. Sawdon. il Pet Eng 13:60-1, 64, 66 Mr '42

Visual fluid flowmeters with straight-walled tubes. R. C. Kintner. diag Ind & Eng Chem Anal ed 14:261-4 Mr 15 '42

See also

Gas meters
Orifices
Venturi flume
Water meters

Installation

Installation requirements for head meters. H. S. Bean. diags Heating-Piping 13:744-6 D '41

Metering flow; head-meter installation. diags Power 86:104-5 F '42

Why, when, what, where and how of flow meter installation. W. C. Bennett. il chart Power Pl Eng 46:88-9, 110 O; 97-8 N '42

FLOW of air. See Air flow

FLOW of fluids. See Fluids

FLOW of gas. See Gas flow

FLOW of oil. See Oil flow

FLOW of water. See Hydraulics; Water flow

FLOW regulators

Basic principles of closed type flow-valve installations. J. E. Halferty. diags Oil & Gas J 40:40-1+ F 19 '42

Completion of two-zone wells is greatly simplified; tool provides means to control flow from either or both zones. J. O. Farmer. il Oil & Gas J 41:89+ Je 25 '42

Laboratory-scale flow regulator. V. H. Cheldelin and B. E. Christensen. diag Ind & Eng Chem Anal ed 13:805 N 15 '41

Method of controlling flow through pipe-line loops. P. Reed. il diags Oil & Gas J 40: 33-4 Ap 9 '42

Multiple-supply automatic oxygen regulator. Instruments 15:232 Je '42

Practical application of flow valve installation principles. J. E. Halferty. diags Oil & Gas J 40:46-7, 49, 64-6 N 27 '41

Viscosity compensation for oil burners. K. Steiner. diags Heating-Piping 14:292-4 My '42

FLOW sheets

Development of the flowsheet for the Morenci concentrator. E. Wittenau and B. H. Cody. Min & Met 23:262-4 My '42

FLOWERING of plants. See Plants, Flowering of

FLOWERS

Wilting industry; southern California's cut flower industry. Business Week p18 Je 13 '42

FLOWERS, Artificial

Effect of home-work prohibition in artificial-flower industry. Monthly Labor R 54:642-6 Mr '42

FLUE dust

Concentration of blast furnace flue dusts. S. M. Shelton and F. D. Lamb. flow sheet il Iron Age 149:55-9 Je 11 '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; nature of the dust in the atmosphere in a basic open-hearth furnace. J. H. Chesters and W. Hugill. Iron & Steel Inst J 144:231-4, pl 21 no 2 '41

Fly ash erosion in steel mill boilers. J. H. Reid. il diags Steel 111:68, 70+ Ag 24 '42

Gas volumes in modern furnaces; dust determination. H. M. Brownrigg. diags Can Min J 63:229-30 Ap '42

Iodine from flue dust; German experiments. Chem Age (Lond) 47:322 O 10 '42

Reducing grit emission from boilers; patent. Gas J (Lond) 236:289 N 19 '41

See also

Blast furnace gas
Blast furnaces
Flue gas
Sintering
Smoke

FLUE gas

Aspects of waste heat recovery from horizontal retorts. J. Castle. Gas J (Lond) 236: 97 O 15 '41

Carbon dioxide from lime kilns. V. J. Azbe. diags Rock Prod 45:57+ S '42

Combustion efficiencies as related to performance of domestic heating plants. A. P. Kratz, S. Konzo and D. W. Thomson. diags Ill U Eng Exp Sta Circ 44:1-30 '42 (pa 40c); Excerpts. Sheet Metal Worker 33:50-2 O '42

Design and operation of gas-fired industrial equipment in relation to national fuel economy. E. A. C. Chamberlain. Gas J (Lond) 238:515-19 Je 24 '42

Gas volumes in modern furnaces. H. M. Brownrigg. diags Can Min J 63:225-31 Ap '42; Correction. 63:314 My '42

Height of stacks established by wind-tunnel tests; investigation of flue gas problem at Riverside station, Baltimore. H. L. von Hohenleiten and E. F. Wolf. Power Pl Eng 46:73-5 Ag '42

New principles in heating Koppers-Becker coke ovens. W. C. Rueckel. diags Blast F & Steel Pl 30:331-8, 431-6 Mr-Ap '42; Abstract. Metal Prog 42:926-7 N '42

Observed performance of some experimental chimneys. R. S. Dill, P. R. Achenbach and J. T. Duck. il diags Heating-Piping 14: 252-9 Ap '42; Abstract. Sheet Metal Worker 33:50+ S '42; Discussion. Heating-Piping 14:259-60 Ap '42

What's happening inside your kiln? L. R. Whitaker. diags Brick & Clay Rec 100:28-30 Mr; 43-4 Ap; 16-17 Je; 101:17-18 Jl '42

See also

Flue dust

Analysis

Combustion testing; advantages and means. W. H. Pugsley. diag Dom Eng 158:63-4+ D '41

Gas service manual; flue-gas analysis. W. L. Riehl. diag Gas Age 89:23-4 Je 18 '42

FLUES

See also

Chimneys

FLUID meters. See Flow meters

FLUIDITY

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

Improvement in the method of dissolving cellulose in cuprammonium solution for fluidity measurements. R. T. Mease. diag J Research Nat Bur Stand 27:551-3 D '41

Measuring the fluidity of cast steel. H. F. Taylor and E. A. Rominski. il diags Iron Age 148:40-4 N 27 '41

Rheology of the blood; the effect of fibrinogen on the fluidity of blood plasma. E. C. Bingham and R. R. Roepke. bibliog Am Chem Soc J 64:1204-6 My '42

See also

Viscosity

FLUIDS

Distribution of velocity within a nest of tubes. R. P. Wallis. il diags Engineering 152:361-3, 401-3 N 7, 21 '41

Flow of homogeneous fluids through linear systems. P. J. Jones. Oil & Gas J 41:53-4 Je 4 '42

Flow of water through pipes; equations can be applied to problems in operation of lease, gasoline plant, refinery and pipeline systems. R. W. Machen. Oil & Gas J 40:39-40 Ap 9 '42

Graphical solution of fluid-friction problems. E. S. Dennison. Engineering 153:179-80 F 27 '42

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38: 493-530 Je '42

Measurement of the flow of liquids and gases. E. Ower. bibliog il diags Inst Chem Eng Trans 18:87-104; Discussion. 104-14 '40

Mechanism of flow of fluids through orifices; discussion of paper by J. M. Naiman. J. T. Cortelyou. Oil & Gas J 40:58-9, 61 D 11 '41

New chart solves heat transfer calculations for fluids in viscous flow region. D. O. Hubbard and J. V. Roth. Chem & Met Eng 49: 100 Ja '42

New information about flow of fluids in the critical region. Heating-Piping 14:541 S '42

Packed tower performance at high liquor rates; the effect of gas and liquor rates upon performance in a tower packed with two-inch rings. C. M. Cooper, R. J. Christl and L. C. Peery. bibliog diags Am Inst Chem Eng Trans 37:979-93; Discussion. 993-6 D '41

Practical alignment chart for fluid flow in pipelines. P. Meyer. Can Chem & Process Ind 26:269-70 My '42

Pressure drop calculations for flow in pipes. J. A. Hardy and E. N. Kemler. Heat & Ven 39:43-9 Ag '42

Pressure drop in the flow of compressible fluids. W. E. Lobo, L. Friend and G. T. Skaperdas. Ind & Eng Chem 34:821-3 Jl '42

Visual studies of flow patterns. E. A. Hauser and D. R. Dewey, 2d. il J Phys Chem 46: 212-13 Ja '42

See also

Aerodynamics
Air flow
Equation of state
Flow meters
Gas flow
Gases
Hydraulic engineering
Hydraulics
Hydrodynamics
Liquids
Oil flow
Solution (chemistry)
Vapors
Viscosity
Water flow

Bibliography

Bibliography of nomographs dealing with flow of fluids. R. Myllynen and D. S. Davis, comps. News Ed 19:1370-2 N 25 '41

FLUMES

Flume designed for hydraulic excavation. C. E. Nightingale. diag Rock Prod 45:34-5 Je '42

Importance of considering side-wall friction in bed-load investigations. J. W. Johnson. Civil Eng 12:329-31 Je '42

New gaging station for mountain streams; Forest Service installation combines San Dimas flume with two broad-crested weirs. H. G. Wilm. il diags Civil Eng 12:548-9 O '42

FLUMES, Concrete

Repairing a cracked concrete flume without stopping water service. diag Eng N 127:878 D 18 '41

FLUOBORIDES

Diazonium borofluorides; their use in the Bart reaction. A. W. Ruddy, E. B. Starkey and W. H. Hartung. bibliog Am Chem Soc J 64:828-9 Ap '42

FLUORENONE

Alkaline hydrolysis of fluorenone-spirohydantoin. W. H. McCown and H. R. Henze. bibliog Am Chem Soc J 64:689-90 Mr '42

FLUORESCEIN

Electromagnetic mechanism of the beta phosphorescence of fluorescein in acid solution. S. I. Weissman and D. Lipkin. bibliog il diags Am Chem Soc J 64:1916-18 Ag '42

Fluorescein as an indicator in bromometric titrations. F. L. Hahn. Ind & Eng Chem Anal ed 14:571 Jl 15 '42

Reversible photochemical processes in rigid media; a study of the phosphorescent state. G. N. Lewis, D. Lipkin and T. T. Magel. bibliog Am Chem Soc J 63:3005-18 N '41

FLUORESCENCE

Blackout costume. il Chem & Eng N 20:200 F 10 '42; Same abr. Sci Am 166:123-4 Mr '42

Black-out preparations in the United States. H. E. Millson. il News Ed 19:1266+ N 25 '41; Same. Textile Col 64:21-3 Ja '42

Crack detection by fluorescence. Engineering 154:196 S 4 '42; il Mech Handling 29:189 O '42

Detection of gallium by a fluorescence reaction with 8-hydroxyquinoline. E. B. Sandell. Ind & Eng Chem Anal ed 13:844-5 N 15 '41

Detection of second-hand white cotton filling materials used in articles of bedding and upholstered furniture. C. M. Jephcott and W. H. H. Bishop. bibliog Ind & Eng Chem Anal ed 14:400-4 My 15 '42

First law of fluorescence. J. De Ment. Science 96:157-8 Ag 14 '42

Fluorescence of diamonds. Science 95:sup8 Mr 27 '42

Fluorescence of glass. W. A. Weyl. bibliog il Ind & Eng Chem 34:1035-41 S '42

Fluorescence of manganese in glasses and crystals. S. H. Linwood and W. A. Weyl. bibliog Opt Soc Am J 32:443-53 Ag '42

Fluorescence of phosphors in the rare gases. G. R. Fonda and H. Huthsteiner. bibliog Opt Soc Am J 32:156-60 Mr '42

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Fluorescent chemicals and their applications. J. A. De Ment. 240p $4.25 Chemical pub. co. '42

Fluorescent light; the prospector's new tool; ultra-violet lamp aids in determining presence of scheelite and other minerals. R. Hamilton. il Min Cong J 28:52-3 Ap '42

Fluorescent light used in molybdenum assay. Eng & Min J 143:65 S '42

Fluorescent lighting. Engineering 153:116 F 6 '42

Fluorescent tests for beryllium and thorium. C. E. White and C. S. Lowe. Ind & Eng Chem Anal ed 13:809-10 N 15 '41

Glo-crack; fluorescent testing. il Engineer 174:201 S 4 '42

Herman's method for the determination of mercury; ultraviolet lamp and fluorescent screen used. J. M. Samuel. il Eng & Min J 143:58-9 Je '42

How minute cracks, porosity and surface blow holes in metals can be shown up by use of a fluorescent dye and ultraviolet light; abstract. T. de Forest. Science 96:sup 10 O 16 '42

Intramolecular energy transfer; the fluorescence of complexes of europium. S. I. Weissman. J Chem Phys 10:214-17 Ap '42

Luminescent coatings. Metal Finishing 40: 335-8+ Je '42

Magnaflux corporation; new technique for the detection of structural flaws by fluorescence. Aeronautical Eng R 1:111 Ag '42

Plastics competition award to J. M. Gordon & co.; fluorescent Christmas tree ornaments. il Mod Plastics 19:118-19 N '41

Properties of luminescent materials. C. E. Barnett. bibliog il Chem & Eng N 20:1006-9 Ag 25 '42

Some aspects of fluorescence. J. A. Radley. Soc Dyers & Col J 58:49-51 Mr '42

Study of photoluminescence in glasses; abstracts. A. R. Rodriguez and C. W. Parmelee. Glass Ind 23:184 My '42; Cer Ind 38:40 My '42

See also

Fluorometers
Luminescence

FLUORESCENCE—*Continued*

Measurement

Electronic method of measuring molecular lifetimes; applied to measure decay of fluorescence and to measure decay of light from a nitrogen discharge. R. D. Rawcliffe. il diags R Sci Instr 13:413-18 O '42

FLUORESCENT dyes. See Dyes and dyeing—Fluorescence

FLUORESCENT lamps. See Electric lamps, Fluorescent

FLUORESCENT lighting association

Organization. Power 86:294b-294c Ap '42; Same abr. Illum Eng 37:138 Mr '42

FLUORESCENT pigments corporation

Stock offered. Comm & Fin Chr 156:252 Jl 20 '42

FLUORIDE poisoning

Metabolism of fluoride. W. Machle, E. W. Scott, E. J. Largent. Ind Med 11:288-9 Je '42

Study of osteopathy due to fluorine poisoning; abstract. F. de Senarclens. J Ind Hygiene 24:sup91 My '42

FLUORIDES

Absorption and excretion of fluorides. W. Machle, E. W. Scott and E. J. Largent. bibliog J Ind Hygiene 24:199-204 S '42

Crystal structure of hydrazinium difluoride. M. L. Kronberg and D. Harker. il diags J Chem Phys 10:309-17 Je '42

Development of leadless glazes containing fluorides. P. M. Corbett and N. J. Kreidl. bibliog Cer Ind 39:46, 48+ Ag; 64, 66, 68 S '42

Domestic water and dental caries; effect of increasing the fluoride content of a common water supply on the lactobacillus acidophilus counts of the saliva. F. A. Arnold, jr., H. T. Dean and E. Elvove. bibliog Pub Health Rep 57:773-80 My 22 '42

Fluorine acquired by mature dog's teeth. F. J. McClure. bibliog Science 95:256 Mr 6 '42

Formation of complex fluorides in anhydrous liquid hydrogen fluoride; sodium fluocolumbates. A. W. Laubengayer and C. G. Polzer. bibliog Am Chem Soc J 63:3264-6 D '41

Structures of complex fluorides; ammonium hexafluosilicate-ammonium fluoride, $(NH_4)_2SiF_6 \cdot NH_4F$. J. L. Hoard and M. B. Williams. bibliog Am Chem Soc J 64:633-7 Mr '42

Structures of complex fluorides; potassium oxyhexafluocolumbate, K_3CbOF_6. M. B. Williams and J. L. Hoard. bibliog Am Chem Soc J 64:1139-41 My '42

Structures of complex fluorides; rubidium hexafluogermanate. W. B. Vincent and J. L. Hoard. Am Chem Soc J 64:1233-4 My '42

Analysis

Determination of small quantities of fluoride in water; a modified zirconium-alizarin method. W. L. Lamar and C. G. Seegmiller. bibliog Ind & Eng Chem Anal ed 13:901-2 D 15 '41

Methods of determining fluorides; committee report. bibliog diags Am Water Works Assn J 33:1965-2017 N '41; Discussion. E. Elvove; R. F. Goudey. 33:2210-14 D '41

Modification of the fluoride determination. R. D. Scott. Am Water Works Assn J 33:2018-20 N '41; Addendum. 34:522 Ap '42

FLUORIDES in the body

Absorption and excretion of fluorides; the normal fluoride balance. W. Machle, E. W. Scott and E. J. Largent. bibliog J Ind Hygiene 24:199-204 S '42

FLUORIMETERS. See Fluorometers

FLUORINATION

Addition of hydrogen fluoride to the triple bond. A. V. Grosse and C. B. Linn. bibliog diag Am Chem Soc J 64:2289-92 O '42

Fluorinated derivatives of propane. A. L. Henne, M. W. Renoll and F. W. Haeckl. Am Chem Soc J 61:2489-91; 63:3476-8 S '39, D '41

New method of synthesizing aliphatic difluorides. M. W. Renoll. Am Chem Soc J 64:1115-16 My '42

New method of synthesizing organic 1,1,1-trifluorides. A. L. Henne, A. M. Whaley and J. K. Stevenson. Am Chem Soc J 63:3478-9 D '41

FLUORINE

Atomic weight comparisons from density and X-ray data: fluorine, calcium, and carbon. C. A. Hutchison. bibliog J Chem Phys 10:489-90 Jl '42

Composition and properties of superphosphate; volatilization of fluorine in superphosphate manufacture. K. D. Jacob and others. bibliog Ind & Eng Chem 34:722-8 Je '42

Density of sodium chloride; the atomic weight of fluorine by combination of crystal density and X-ray data. H. J. Johnston and D. A. Hutchison. Phys R 62:32-6 Jl 1 '42

Fluorine; the Tilden lecture delivered on Feb. 19th, 1942. H. J. Emeléus. Chem Soc J p441-7 Jl '42

Preparation of fluorine. G. H. Cady, D. A. Rogers and C. A. Carlson. bibliog diags Ind & Eng Chem 34:443-8 Ap '42

Short range alpha-particles from fluorine bombarded with protons. R. A. Becker, W. A. Fowler and C. C. Lauritsen. bibliog il diags Phys R 62:186-96 S 1 '42

Analysis

Determination of fluorine and other halogens in organic compounds. P. J. Elving and W. B. Ligett. bibliog(50 references) il diags Ind & Eng Chem Anal ed 14:449-53 Je 15 '42

Magnesium acetate as an ashing agent in fluorine analysis. W. E. Crutchfield, jr. bibliog Ind & Eng Chem Anal ed 14:57-8 Ja 15 '42

Methods of determining fluorides; committee report. bibliog diags Am Water Works Assn J 33:1965-2017 N '41; Discussion. E. Elvove; R. F. Goudey. 33:2210-14 D '41

Modification of the fluoride determination. R. D. Scott. Am Water Works Assn J 33:2018-20 N '41; Addendum. 34:522 Ap '42

FLUORINE compounds

Fluorinated derivatives of propane. A. L. Henne and F. W. Haeckl. Am Chem Soc J 63:3476-8 D '41

Fluorine derivatives of biphenyl. M. W. Renoll. bibliog Am Chem Soc J 64:1489-90 Je '42

FLUORINE poisoning. See Fluoride poisoning

FLUORITE. See Fluorspar

FLUOROBENZENE

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

FLUOROBROMOBENZENE

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

FLUOROCHEMISTRY (term)

Name proposed for applications of fluorescence to chemistry. J. De Ment. Science 95:407 Ap 17 '42

FLUOROCHLOROBROMOMETHANE. See Chlorofluorobromomethane

FLUOROCHLOROMETHANES. See Chlorofluoromethanes

FLUOROIODOBENZENE

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

FLUOROMETERS

Coleman electronic photofluorometer. Instruments 14:390 D '41

Fluorescence measurement; the Spekker photo-electric fluorimeter. il Chem Age (Lond) 46:113 F 28 '42

FLUOROMETERS—*Continued*

Photo-electric fluorimeters and their uses. G. F. Lothian. bibliog diags Soc Chem Ind J 61:58-60 Ap '42

Spekker photoelectric fluorimeter. il R Sci Instr 12:558 N '41

FLUOROMETRY

Riboflavin analysis of cereals; application of the microbiological method; comparison with fluorometric method. J. S. Andrews, H. M. Boyd and D. E. Terry. bibliog Ind & Eng Chem Anal ed 14:271-4 Mr 15 '42

FLUORONITROBENZENE

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

FLUOROPHENOL

Coupling of *m*-fluorophenol with some diazotised amines and the preparation of 2-fluorobenzoquinone. H. H. Hodgson and D. E. Nicholson. Chem Soc J p645-6 O '41

FLUOROTRICHLOROMETHANE. See Trichlorofluoromethane

FLUORSPAR

Cable-tool core barrel facilitates exploration of fluorspar deposits. Eng & Min J 143:54 S '42

Fluorspar industry establishes record in 1941. Blast F & Steel Pl 30:sup54 Ap '42

Fluorspar plays a vital role in the production of aluminum; grades, uses and prices. Chem Ind 50:674 My '42

Fluorspar producer in Illinois tries quebracho extract in flotation. Eng & Min J 143:47 Ja '42

Fuel saving $5 daily with new Diesel; fluorspar from tailings at Klondyke mine, Ky. il Eng & Min J 142:64 D '41

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

Some electrical aspects of a new fluorspar plant. J. H. Edwards. il Eng & Min J 143:56-8 Mr '42

Prices

Fluorspar prices. Published in weekly numbers of Iron age

FLUOSILICIC acid

Composition and properties of superphosphate; volatilization of fluorine in superphosphate manufacture. K. D. Jacob and others. bibliog Ind & Eng Chem 34:722-8 Je '42

Hydrofluosilicic acid method for determination of quartz. F. H. Goldman. bibliog diags Ind & Eng Chem Anal ed 13:789-91 N 15 '41

FLUX

Aluminum welding fluxes; abstract. Metals & Alloys 14:779-80 N '41

Fluxes for aluminium alloys; practical precepts for melting, welding, and soldering. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 46:181-3, 235-6 Ap 4, My 2 '42

Fluxes for oxy-acetylene welding and brazing. H. E. Landis, jr. and F. C. Saacke. Metal Prog 41:203 F '42

Fluxes for soft solders. H. C. Watkins. Engineering 153:328 Ap 24 '42; Abstract. Electronics 15:82 Jl '42

Influence of fluxes of spodumene and feldspar mixtures on properties of chinaware bodies; semi-vitreous bodies and vitreous hotel chinaware bodies. H. G. Schurecht, J. K. Shapiro and Z. Zabawsky. diags Am Cer Soc J 25:321-6 Jl 1 '42

Welding flux for sulphur contaminated steels. I. Bencowitz. il Welding J 21:sup237-41 My '42

FLY ash. See Flue dust

FLY sprays and repellents

All-purpose insect spray. E. M. Searls. il Soap & San Chem 18:97, 99, 101 My '42

Attractants and repellents for insects. E. G. Thomssen and M. H. Doner. Soap & San Chem 18:95-6+ My '42

Effect of temperature on recovery of houseflies. C. Eagleson. Soap & San Chem 18:115-17+ Je '42

Insecticidal properties of 1,3-indandiones; effect of acyl groups. L. B. Kilgore, J. H. Ford and W. C. Wolfe. bibliog Ind & Eng Chem 34:494-7 Ap '42

Tephrosia extract against house flies. H. A. Jones and W. N. Sullivan. bibliog Soap & San Chem 18:94-5 S '42

Thanite, a new Hercules insecticide concentrate. il Chem Ind 51:566-8 O '42

What a cowman expects of a cowspray. A. O. Shaw. il Soap & San Chem 18:90-3 F '42

Testing

Repellency in cattle sprays. T. H. Mailen and F. A. Fenton. il Soap & San Chem 17:133+ D '41

FLYING. See Aviation; Flight

FLYING boats

Aircraft in peace and in war. G. L. Martin. il Aero Digest 40:142-4, 149-50 My '42

Consolidated Catalina flying boat; cutaway drawings. il Aero Digest 41:152-3 Ag '42; Same. Automotive & Aviation Ind 87:30-1 Ag 15 '42

Consolidated specializes on heavy bombers. H. Ezard. il Mach 48:205-14 Jl '42

Flying boat could fly non-stop to Europe and return. il Sci Am 166:98 F '42

Flying boat for transatlantic service. il Arch Forum 77:46-8 Ag '42

Future of water-based airplanes. F. T. Courtney. il diags Aviation 41:91-3+ Jl; 93-5+ Ag; 116-19+ S; 122-3+ O; 122-3+ N '42

Half-million pound flying boat believed likely within few years. Steel 110:66+ My 11 '42

Handling of flying boats on the water. F. Smith. il Aero Digest 40:73-4+ Je '42

Martin Mars patrol bomber. il Aero Digest 41:194 Ag '42

Martin's Mars, largest flying boat, has supercharging of air for crew. il Heat & Ven 39:42 S '42; Same. Heating-Piping 14:548 S '42

Mighty Mars; huge cargo planes will play a leading role in after-the-war world economic developments. A. Klemin. il Sci Am 167:182-3 O '42

Panels of light weight for transport use; Fybr-Tech flying boats. il Sci Am 166:29-30 Ja '42

Potez 161. il Automotive & Aviation Ind 87:48+ S 15 '42

Remote propeller drives. F. T. Courtney. il diag Aviation 41:82-5+ My '42

Sea Ranger. A. Klemin. il Sci Am 167:231 N '42

Turning out instrument pilots; Pan-American airways instructs personnel in transoceanic instrument flight. H. W. Roberts. il Aviation 41:196-7+ My '42

Vought-Sikorsky flying boat. C. B. F. Macauley. il Aviation 41:60-3, 192+ Ja '42

Vought-Sikorsky VS-44 long-range flying boat. il Aero Digest 39:224+ D '41

FLYWHEELS

Loose flywheel keyed tightly to shaft. F. L. Berry. diags Power 86:426-7 Je '42

Safe speeds for flywheels! J. Marin. diags Machine Design 14:41-4+ Ja '42

Stress in flywheels; formula. W. F. Schaphorst. Diesel Power 19:1054 D '41

FOAM glass. See Glass, Cellular

FODDER. See Feeding and feeding stuffs

FOG

Diffusing effect of fog. W. E. K. Middleton. diags Opt Soc Am J 32:139-43 Mr '42

Forecasting the formation of fog at terminal stations. B. C. Haynes. Civil Aero J 3:32+ F 1 '42

Penetration of fog by light from sodium and tungsten lamps. M. Luckiesh and L. L. Holladay. bibliog Opt Soc Am J 31:528-30 Ag '41; Abstract. Sci Am 166:244+ My '42

See also

Haze

FOG, Chemical

Optimum liquid combinations for cloud chambers. C. Beck. diag R Sci Instr 12:602-6 D '41

FOGELSONGER, Percy
Nation's smallest defense plant has won the recognition of the White House. il Paper Ind 24:679 O '42

FOLDS (geology)
Ottawa-Bonnechere graben and Lake Ontario homocline. G. M. Kay. diags maps Geol Soc Bul 53:585-646 bibliog(p644-6) pl 1-7 Ap '42

FOLLOW-up systems
See also
Advertising, Mail
Commercial correspondence
Sales letters

FOLSOM, Frank Marion, 1894-
Men who oversee procurement. por Business Week p7 F 7 '42

FONDA, Johnstown & Gloversville railroad
Reorganization. Comm & Fin Chr 154:1147 N 22 '41

FOOD
Army feeding will affect foods of the future. R. A. Isker. il Food Ind 14:41-2 N '42
Developing germ vitamin factories and the chocolate-flavored germ syrup for digesting grass, leaves and wood; abstract. G. J. Martin. Science 95:sup8+ Ap 24 '42
Food and family living. F. L. Gorrell, H. McKay and F. Zuill. 522p $1.80 Lippincott '42
Food values in war-time. V. G. Plimmer. 80p pa 40c Longmans '41
Fourth discussion meeting on nation's food. Chem & Ind 60:832-4 N 22 '41
Hogs or beer? which is the more economical source of food? Sci Am 167:170+ O '42
McNutt package; four-day family supply list. Business Week p39-40 Ja 3 '42
Nation's food; cereals as food. D. W. Kent-Jones and A. L. Bacharach and others. bibliog Chem & Ind 60:823-7, 875-8, 903-8; 61:17-21 N 22, D 13, 27 '41, Ja 10 '42
Nation's food; meat as food. J. Hammond and others. Chem & Ind 61:334-5, 373-7, 381-2, 404-6 Ag 1, S 5-12, O 3 '42
New packages and products. Published in monthly numbers of Food industries
Principles of food fortification. A. L. Bacharach. Chem & Ind 61:57-60 Ja 31 '42; Discussion. 60:909 D 27 '41
Technological aspect of food fortification. A. J. Amos and D. W. Kent-Jones. Chem & Ind 61:79-82 F 14 '42
Use of soya lecithin will save scarce fats. J. Stanley. bibliog Food Ind 14:69-71 Jl '42
See also
Bakers and bakeries
Baking
Beverages
Bread
Butter
Cake
Canned food
Cereals, Prepared
Cheese
Coloring matter in food
Cost of living
Dairy products
Diet
Digestion
Eggs
Farm produce
Fish as food
Flour
Fruit
Grasses as food
Ice cream
Meat
Milk
Nutrition
Potatoes
Poultry
Proteins
Restaurants
Spices
Sugar
Sweetening agents
Vegetables
Vitamins

Analysis

Cereal laboratory methods, with reference tables. 4th ed rev 264p $2.50 Am. assn. of cereal chemists, 110 Experiment station hall, Agric. college, Lincoln, Neb. '41
Determination of total and inorganic bromide in foods fumigated with methyl bromide. S. A. Shrader, A. W. Beshgetoor and V. A. Stenger. bibliog Ind & Eng Chem Anal ed 14:1-4 Ja 15 '42
Food and beverage analyses. M. A. Bridges and M. R. Mattice. 2d ed rev 344p bibliog (p315-32) $4 Lea & Febiger, Philadelphia '42
Growth stimulants in the microbiological assay for riboflavin and pantothenic acid. J. C. Bauernfeind, A. L. Sotier and C. S. Boruff. Ind & Eng Chem Anal ed 14:666-71 Ag 15 '42
Magnesium acetate as an ashing agent in fluorine analysis. W. E. Crutchfield, jr. bibliog Ind & Eng Chem Anal ed 14:57-8 Ja 15 '42
Modern concepts of analysis, with special reference to food. E. B. Hughes. il diags Chem & Ind 61:103-10 F 28 '42
New colorimetric method for determining small quantities of nicotinic acid. R. P. Daroga. bibliog Soc Chem Ind J 60:263-6 O '41
Vitamin A values of 128 foods as determined by the rat-growth method. L. E. Booher and R. L. Marsh. diags U S Agric Tech Bul 802:1-30 bibliog(p30) '41

Bacteriology

Some bacteriological aspects of fish preservation. J. M. Shewan. Chem & Ind 61:312-14 Jl 18 '42

Chemistry

Agricultural and food chemistry as discussed at Buffalo meeting, American chemical society. Can Chem & Process Ind 26:587-8, 616+ O '42

Bibliography

British chemical and physiological abstracts; B, III, Agriculture, foods, sanitation, etc. Published monthly by Chemical society, London £1 10s

Color

Recording color of opaque objects. M. E. Stansby and J. A. Dassow. Ind & Eng Chem Anal ed 14:13-15 Ja 15 '42

Gas contamination

Foods need guarding from gas and glass. E. Hardy. il Food Ind 14:37-8 My '42

Glass contamination

Foods need guarding from gas and glass. E. Hardy. il Food Ind 14:37-8 My '42

Insect infestation

Prevention of insect infestation of foods; abstract. W. C. O'Kane. Food Ind 14:112 Jl '42

Manufacture

Food manufacturing; a compendium of food information. S. Blumenthal. 664p bibliog(p640-1) $7.50 Chemical pub. co. '42
Proposed classification of the unit processes. C. A. Shillinglaw. bibliog il Food Ind 14:40-3 Je '42
See also
Blanching
Marshmallow cream

Formulas

Formulas for foods. Published in monthly numbers of Food industries

Patents

Patents. Published in monthly numbers of Food industries

Preservation

See Food preservation

Prices

Canadian fund for food price subsidy. Comm & Fin Chr 155:1783 My 7 '42
Control of food prices. J. M. Tinley. 33p bibliog(p33) pa 25c Univ. of California press, Berkeley '42
Cost of living; continued rapid increase in 14:66-8 Jl; 46-7+ Ag; 62, 109-10 S; 60+ O '42
Cut price war. Economist 141:716 D 13 '41
Dun & Bradstreet weekly wholesale food price index, 1939 to date. Published in monthly numbers of Dun's statistical review; summary in Dun's review
Farm-retail price spreads. Barron's 22:6 Jl 20 '42

FOOD—Prices—*Continued*

Food; new ceilings for old. Business Week p16-17 O 17 '42

How price ceilings may affect grocery companies. Barron's 22:6 My 11 '42

Index numbers of cost of living and food prices in various countries. Int Labour R 44:464-9; 45:114-19, 465-71; 46:110-16, 505-11 O '41, Ja, Ap, Jl, O '42

International comparisons of food costs. R. M. Woodbury. 78p pa $1 Int. labor office '41

OPA promises alternate food pricing method. Food Ind 14:71 S '42

Permanent ceiling orders will affect many businesses. Barron's 22:6 O 26 '42

Price control; food prices, 1941. Economist 142:sup19-20 Mr 14 '42

Price variations among retail grocery stores of Burlington, Vermont. D. D. Nuetzman and M. Muse. il Vermont Agric Exp Sta (Burlington) Bul 466:1-40 bibliog(p40) '40

Rampant food prices show inflation trend. Comm & Fin Chr 156:463 Ag 6 '42

Retail food prices, United States, Canada, United Kingdom, Germany, Netherlands, Switzerland, 1932-1941 and monthly March 1941-March 1942. Fed Res Bul 28:521 My '42 [cont monthly]

Retail prices of food. Published in Monthly labor review

Rise in cost of living resulted chiefly from higher food prices, Board finds. Comm & Fin Chr 156:1267 O 8 '42

War comes to the grocery store. R. P. Wolff. il Dun's R 50:15-18+ My '42

Standards

Are trends in quality standards consistent with modern production practices? abtract. M. E. Parker. Food Ind 14:109 Jl '42

Brief summaries of grade standards issued by the Agricultural marketing administration. Food Ind 14:66-8 Jl; 46-7+ Ag; 62, 109-10 S; 60+ O; 66-7+ N '42

Complications delay standards for food. Food Ind 14:54-6 F '42

Standards halted; Circuit court of appeals set aside standards of identity for farina and enriched farina. Business Week p42 Jl 11 '42

See also

Canned food—Standards

Food, Dried—Standards

Statistics

Food consumption and nutrition in the Americas. R. M. Woodbury. Int Labour R 46:245-83 bibliog(p281-3) S '42

Storage

Cooling storage rooms by brine spray system. G. O. Weddell. il Food Ind 14:59-61 S; 56-8 O '42

Day-to-day storage of foods in the home. Consumers' Research Bul 9:23-4 Ap '42

Food storage buildings. Engineer 173:119 F 6 '42

Maybe this will solve your storage problem; plywood storage bin. il diags Food Ind 14:62-3 O '42

Preventing spoilage in wartime storage. E. Hardy. il Food Ind 14:44-5 Ag '42

Producing and storing the home food supply. diag Consumers' Research Bul 9:15-18 Mr '42

Storage cellars of unreinforced concrete offers opportunity to contractors. il diags Concrete 50:14-15 Jl '42; Same. Am Bld 64:42-3 Jl '42

See also

Cold storage

Food, Dried—Storage

Food, Frozen—Storage

Meat—Storage

Tables, calculations, etc.

Food values in shares and weights. C. M. Taylor. 92p bibliog(p91-2) $1.50 Macmillan '42

Transportation

See also

Food, Frozen—Transportation

Food containers

Refrigeration on cars, trucks, etc.

FOOD, Canned. See Canned food

FOOD, Concentrated

New army rations; emergency kits developed by QMC. Business Week p29-31 Jl 11 '42

New food processes to benefit the Americas. E. N. Bressman. For Comm W 9:11+ O 31 '42

FOOD, Dried

Adapting fruit and vegetable products to war needs. W. V. Cruess, M. A. Joslyn and G. Mackinney. 38p bibliog(p37-8) pa 25c Univ. of California press, Berkeley '42

Amazing food industry. F. R. Walters. Mag of Wall St 70:542-3 S 5 '42

Ceramic dryers can dehydrate foods! il Cer Ind 39:23-4 S '42

Commercial dehydration of food. il Manuf Rec 111:30-1+ S '42

Dehydrated food industries are expanding; tripled output in '43? E. M. Kelley. il Sales Management 51:40+ S 1 '42

Dehydrated food to the front. W. S. Ross. il Mod Packaging 15:55-7+ Ag '42

Dehydrated foods; abstract. S. C. Prescott. Science 96:sup8 O 30 '42

Dehydrated foods must surmount two consumer hurdles. C. S. Kaufman. Ptr Ink 200: 42, 51 S 25 '42

Dehydrated foods; symposium. Chem & Ind 61:342-3 Ag 8 '42

Dehydrators' day; interest in process rises. Business Week p58 Mr 21 '42

Drying of foods. W. R. Marshall, jr. bibliog il Heating-Piping 14:527-31, 588-91+, 671-3 S-N '42

Food Concentrates dehumidifying and conditioning unit. A. G. Harms. il Heat & Ven 39:76-7 Ja '42

Food conversion; canners are turning to new products, with dehydration as best bet. Business Week p59-60 Ap 18 '42

Food revolution brings advertising opportunity. I. C. Miller. il Ptr Ink 200:15-17, 28+ S 18 '42

Food technologists hail dehydration. Mod Packaging 15:58 Jl '42

Government offers help to food dehydraters. Food Ind 14:82 Jl '42

How dehydrated foods are being packaged. il Food Ind 14:47-51 Jl '42

John Bull eats American; dehydrated eggs, milk, vegetables, and meats. il Business Week p35-6+ Je 13 '42

Man outwits an ancient foe; dehydration of foods. J. Early. Barron's 22:7 Jl 20 '42

Method developed for grading a dehydrated food. R. V. Wilson and H. M. Slosberg. il Food Ind 14:56-8 S '42

More dried foods. Business Week p36-8 F 14 '42

New food processes to benefit the Americas. E. N. Bressman. For Comm W 9:11+ O 31 '42

Packaging dehydrated foods. L. K. Harper. 20p Am. management assn, New York '42; Abstract. Mod Packaging 15:70+ My '42

Packaging of dehydrated foods. C. Watson, 3d. Paper Tr J 115:46+ O 1 '42

Preservation of food by dehydration. Engineering 154:85 Jl 31 '42

Revolution comes to the food industries. I. C. Miller. il Food Ind 14:41 O '42

Rush to dehydrate. Business Week p28+ F 7 '42

School to train commercial manufacturers in improved methods of processing. Science 96:sup12 S 25 '42

Some notes about dehydration; an industry with growing pains. Sales Management 50: 24, 26 Mr 1 '42

Tenfold saving of tonnage. Fortune 26:22+ Jl '42

U.S. stuns dehydrated food industry with call for 200,000,000 pounds. il Sales Management 50:22+ Mr 1 '42

What packages to use for dehydrated foods. L. K. Harper. il Food Ind 14:52-5 Jl '42

FOOD, Dried—*Continued*

What's ahead for dehydrated foods? il Adv & Sell 35:34+ Je '42

See also

Eggs, Dried
Fruit, Dried
Meat, Dried
Milk, Dried
Vegetables, Dried

Standards

Army standards for dehydrated foods. Food Ind 14:54+ N '42

Storage

Some observations on carotene losses in storage. R. O. Davies. Chem & Ind 61:275-6 Je 20 '42

FOOD, Effect of light on

Does light have any effect on glass-packed foods? J. J. Powers and W. B. Esselen, jr. bibliog il Cer Ind 39:36-8 Ag '42

FOOD, Frozen

All-America package competition; award to Cascade frozen foods, inc. il Mod Packaging 15:128-9+ Ap '42
Amazing food industry. F. R. Walters. il Mag of Wall St 70:542-6 S 5 '42
Factors affecting the quality of frozen foods. H. Carlton. il Refrig Eng 43:205-8+ Ap '42
Food revolution brings advertising opportunity. I. C. Miller. il Ptr Ink 200:15-17, 28+ S 18 '42
Frozen food industry. H. Carlton. 187p $2 Univ. of Tennessee press, Knoxville '41
Frozen-food year? Business Week p31-2 F 7 '42
Frozen foods business booming. Barron's 22:5 O 5 '42
Polyphase freezing process developed; low-cost unit built. L. H. Bartlett and W. R. Woolrich. il diag Food Ind 13:60-2+ D '41; 14:62-4 Ja '42
Quick and flash freezing of foods. W. R. Woolrich and L. H. Bartlett. bibliog(50 titles) il diag Mech Eng 64:647-53 S '42
Quick freezing Texas shrimp. E. Hickman. il Refrig Eng 43:212+ Ap '42

See also

Eggs, Frozen
Fruit, Frozen
Ice cream
Peas, Frozen
Vegetables, Frozen

Bibliography

1941 report of A.S.R.E. committee no. 10; agricultural products refrigeration. Refrig Eng 44:240-2 O '42

Directories

Frozen foods directory, 1942. Food Ind 14:51-68 My '42

Storage

Desiccation of products stored at low temperatures. J. G. Woodroof. bibliog il Refrig Eng 42:383-7 D '41
Economic aspect of prefreezing bulk foods before storage. W. J. Finnegan. il Refrig Eng 44:225-9 O '42
Effect of the rate of freezing and temperature of storage on the quality of frozen poultry. C. W. DuBois, D. K. Tressler and F. Fenton. il Refrig Eng 44:93-9 bibliog(p99); Discussion. M. E. Pennington. 99+ Ag '42
Frozen food locker industry; its place in the war program. W. Carver. Refrig Eng 44:147-50, 202+ S '42
Housewife and her locker. N. Orr. Refrig Eng 44:235-6 O '42
New type of frozen foods locker. F. W. Knowles. il plans Refrig Eng 43:157-8+ Mr '42
Office of defense transportation says more refrigerated storage space is needed. Refrig Eng 43:348 Je '42
Plate type evaporators as used in locker plants. A. F. Sawyer. il Refrig Eng 44:17-18 Jl '42
Railroad storage requirements for quick-frozen foods. il Ry Age 112:862-4 My 2 '42

Transportation

Below-zero truck has handy compartments. il diags Food Ind 13:70-1 D '41
Big refrigerated trucks hold zero temperatures for frozen foods. il Refrig Eng 42:408 D '41
Dry-ice containers secure new traffic. il Ry Age 111:799-800 N 15 '41
Mechanical system proves efficient for refrigerating trucks. il diag Food Ind 14:70-1 Ja '42
Railroad storage requirements for quick-frozen foods. il Ry Age 112:862-4 My 2 '42

FOOD, Smoking of. See Smoking of food

FOOD adulteration and inspection

Food substitutes. E. Voelcker. Chem & Ind 61:192-4 Ap 25 '42
Monochloracetic acid ban held ridiculous. C. D. Leake. Food Ind 14:102-4 Je '42

See also

Coloring matter in food

FOOD and drug administration. See United States—Food and drug administration

FOOD brokers

Case for food brokers, when salesmen are few. P. W. Sayres. Ptr Ink 200:64 S 4 '42

FOOD containers

Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42
Award winners, 11th annual all-America package competition. il Mod Packaging 15:124-49 Ap '42
Can we standardize containers? H. H. Hatch. il Comp Air M 47:6712-13 Ap '42
Container for army use made without metal. Oil Paint & Drug Rep 142:3+ Ag 31 '42
Containers use cellophane to replace metals Sci Am 167:220-1 N '42
Does light have any effect on glass-packed foods? J. J. Powers and W. B. Esselen, jr. bibliog il Cer Ind 39:36-8 Ag '42
Effect of mill operations on the number of bacteria found in paper and paperboard products. J. R. Sanborn. Paper Tr J 115:28-32 O 8 '42
Food in cans; problems arising from tin shortage; electrolytic tin plate; practices of various companies. T. W. Lippert. il Iron Age 149:29-44 Ap 30 '42
Food jars simplified. diag Food Ind 14:62 Mr '42
Food revolution brings advertising opportunity. I. C. Miller. il Ptr Ink 200:15-17, 28+ S 18 '42
Foods that may be packed in tin; quantities and can sizes; data from Tin conservation order M-81. Food Ind 14:49-50 Ap '42
Glass containers simplified to save scarce materials. il diags Food Ind 14:44-6 Ap '42
Green light for window carton. il Mod Packaging 16:51-3+ N '42
How some companies are meeting their packaging problems. il Food Ind 14:36-40 Ap '42
Illnesses traced to cadmium food containers. H. O. Calvery. Metal Finishing 40:134-5 Mr '42
Loose-Wiles aqua-proof seal for weatherproof solid-fibre shipping container. il Mod Packaging 16:42-4 O '42
Military ration container problems. R. R Melson. Paper Tr J 115:36-8 O 29 '42
New air-tight box to keep moisture in or out; thermoplastic coated folding carton. flow chart il Mod Packaging 15:84-6+ F '42
New food trends forming as canners await tin commandments. Ptr Ink 198:21 F 6 '42
New packages and products. Published in monthly numbers of Food industries
OPM tests cheap box for lease-lend food; tight wrapper of treated kraft paper. il Food Ind 13:68 D '41
Out of tin into paper. il Mod Packaging 15:58-9+ Ag '42
Packaging of dehydrated foods. C. Watson, 3d. Paper Tr J 115:46+ O 1 '42
Packaging of dehydrated foods; abstract. L. K. Harper. Mod Packaging 15:70+ My '42
Revolutionary type glass jar will help save metal. il Cer Ind 38:40 Ap '42

FOOD containers—*Continued*

Sewed closures for paper bags; cotton thread replaced by spun paper or by polyvinyl alcohol filaments. J. S. Simpson, G. R. Beebe and A. W. Koon. Paper Tr J 114: 117-18 F 19 '42

Silver coated steel. Product Eng 13:107-8 F '42

Silver linings for chemical containers. Chem Ind 51:564 O '42; Same abr. Sci Am 167:207 N '42

Substitute for tin in Swedish containers. For Comm W 7:29-30 Je 27 '42

Tin conservation order hits long list of foods. il Food Ind 14:65-8 Mr '42

Trace cadmium poisoning to food containers. Nat Safety N 45:92 F '42

Victory victuals in priority packages. il Mod Packaging 15:45+ Jl '42

Wartime changes in metal containers. R. H. Lueck. il Food Ind 14:57-63 Ag '42

See also

Bottles
Canned food
Glass containers
Milk containers
Tin cans

FOOD dispensers

Food dispenser. il Mod Packaging 15:55 Je '42

FOOD factories

Conversion will keep your plant operating. Food Ind 14:43+ N '42

Food plants prepare for air raids. T. R. Edwards, jr. il Food Ind 14:35-7 Mr '42

See also

Bakers and bakeries
Canneries
Flour mills
Packing houses
Poultry processing plants
Sugar factories

Air conditioning

Food Concentrates dehumidifying and conditioning unit. A. G. Harms. il Heat & Ven 39:76-7 Ja '42

Employees

Prepare now for labor shortages. G. L. Montgomery. il Food Ind 14:60-1 Mr '42

Equipment

Conveyors aid packing, help retain quality; belts and chutes of special design for handling potato chips. M. E. Bridston. il Food Ind 14:45 S '42

Food equipment news. Published in monthly numbers of Food industries

Food topics to highlight chemical show. il Food Ind 14:44-6+ N '42

Is your refrigerating equipment too small? R. T. Brizzolara. il Food Ind 14:59+ Jl '42

Pump design for chemical processes; service in the food industries. il Chem Age (Lond) 46:145-6 Mr 14 '42

These exhibits will help to solve your problems. Food Ind 13:33-44 D '41

Welding speeds plant construction, maintenance; pans, hoppers, pipes, tanks, conveyors and other food plant equipment. C. M. Taylor. il Food Ind 14:58-9 N '42

See also

Labeling machines

Floors

Select floor materials to suit plant needs. R. Kanegsberg. il Food Ind 14:56-8 Jl; 53-5 Ag '42

Quality control

Analyses show need for catchup control; microbiological and chemical analyses of nine brands tabulated. D. F. Holtman. il Food Ind 14:50-1 Je '42

Improved practices aid cheese makers. J. C. Marquardt. il Food Ind 14:49-50 Je '42

It's the little things that count; off-flavors, rancidity, etc. can often be traced to presence of minute quantities of metals, acting as catalysts. J. A. Dunn. Food Ind 14:41-4+ Ag '42

System is the key to controlled quality; Kingston cake co., Kingston, Pa. W. R. Van Meter. il diag Food Ind 14:54-6 Ap '42

Watch your water supply, it affects food quality. K. G. Weckel. il Food Ind 14:47-50+ Ja '42

Safety measures

How food plant set record for safety; Godchaux sugars, inc., Reserve, La. A. M. Smith. il Food Ind 14:65-6+ S '42

Why Argo plant keeps its national safety record; Corn products refining co. G. Currier. il Mod Packaging 16:86-8, 90+ O '42

Waste

Characteristics and treatment of potato dehydration wastes; abstract. H. F. Gray and H. W. Ludwig. Water Works & Sewerage 89:442 O '42

FOOD fair stores, inc. (formerly Union premier food stores, inc.)

Union premier food stores, inc. name changed. Comm & Fin Chr 155:1607 Ap 20 '42

FOOD formulas. See Food—Manufacture—Formulas

FOOD handling

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:917-31 Je 19 '42

FOOD industry and trade

American brands in many lands. il Mod Packaging 16:60-2+ S '42

Continental Coffee develops new lines to beat shortage threat. Sales Management 51:43 N 1 '42

Dehydrated foods must surmount two consumer hurdles. C. S. Kaufman. Ptr Ink 200: 42, 51 S 25 '42

Fixt Foods shows jobbers how to sell to institutional customers. L. Wall. il Sales Management 50:48+ Ja 15 '42

Food revolution brings advertising opportunity. I. C. Miller. il Ptr Ink 200:15-17, 28+ S 18 '42

How General Foods combats costs on an elevator, prices on skids; concentrating on better grade stores, pushing a few items at a time. A. S. Igleheart. Sales Management 49:47 D 1 '41

How the government buys foods. H. C. Albin. il Food Ind 14:64-8 O '42

Moving surpluses; fruit and vegetable co-op, dropping its A.&P. ties, takes its place among groups set up to move farmers' excess output. Business Week p53-4 Ag 15 '42

News by commodities. Published in Foreign commerce weekly

Picture ahead for branded foods. G. Gore. Adv & Sell 35:16+ My '42; Same cond. Management R 31:210-12 Je '42

Revolution comes to the food industries. I. C. Miller. il Food Ind 14:39-41 O '42

Spirit of business in wartime; why making a profit is essential part of merchandiser's contribution to victory. R. S. Butler. Ptr Ink 201:11-12, 64, 66 O 23 '42

Stockholders as working partners; General mills, inc. J. F. Bell. il Ptr Ink 198:18-19+ Ja 9 '42

Up-to-date notes on Del Monte's sponsorship of glassed foods. il Sales Management 50: 34-5 Ap 1 '42

When to use a store-door distributor. P. F. Leach. il Mod Packaging 15:36-9+ D '41

Why Heinz and Sun-Maid merged their selling. H. L. Scott. Adv & Sell 35:22 N '42

See also

Bakers and bakeries
Bread
Candy trade
Canned food
Cheese
Coffee trade
Dairy products
Food, Dried
Food, Frozen
Grain trade
Grocery trade
Market stores
Meat industry and trade
Milk trade
Packing houses
Poultry
Sugar industry and trade

Advertising

Advertisers cooperate in recipe compilation. il Ptr Ink 201:40 O 30 '42

FOOD industry and trade—Advertising—*Cont.*

Duff's hot weather advertising ends traditional summer slump for Gingerbread mix. Sales Management 51:36 S 1 '42

Food co-operatives in nation-wide holiday campaigns. il Ptr Ink Mo 43:13 D '41

Food for freedom; advertisers' huge stake in feeding America properly. T. S. Harding. il Ptr Ink 198:19-20+ Ja 2 '42

Government and industry form partnership to promote national nutrition plan. J. Murphy. il Ptr Ink 199:17-19+ Je 5 '42

Here is timely help for hard-pressed food retailer; Libby, McNeill & Libby campaign. il Ptr Ink 201:24+ O 30 '42

Impact of war on advertising; the U.S. nutrition project. Adv & Sell 35:17-18 Jl '42

Nutrition entente; food manufacturers and FSA set up merchandising campaign. Business Week p62 F 14 '42

Nutrition splurge; new campaign launched to lift McNutt's food program out of doldrums. Business Week p48+ Ap 11 '42

Relief-from-shortage copy enters with first-rationed food; seven advertising and sales managers tell why their firms use copy that ties in on the sugar shortage. il Ptr Ink 201:22, 25-6 O 9 '42

Save the label! how Del Monte brand retains identity in advertising contribution to national nutrition drive. il Ptr Ink 200:22-3 Ag 7 '42

Van Camp's open 105 markets for Tenderoni in less than 90 days. il Sales Management 51:24 Ag 1 '42

Why does General Foods advertise? the company explains to stockholders. Sales Management 50:50-2+ My 15 '42

See also

Meat industry and trade—Advertising

Directories

Frozen foods directory, 1942. Food Ind 14:51-68 My '42

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:21-2 D '41

Comparing Standard Brands with General Foods. J. C. Clifford. Mag of Wall St 69:612-14+ Mr 7 '42

Investment audit of Corn Products. Barron's 22:13 F 9 '42

See also

Standard brands, inc.

Patents

Patents. Published in monthly numbers of Food industries

Securities

Amazing food industry; position of leading stocks. F. R. Walters. il Mag of Wall St 70:542-6+ S 5 '42

Food distribution shares. Economist 141:477-8 O 18 '41

New outlook for food companies. S. Devlin. il Mag of Wall St 70:336-9, 364 Jl 11 '42

Position of leading food stocks. Mag of Wall St 69:431-2 Ja 24 '42

Statistics

Price regulation impact on food industries; excepted items. Barron's 22:8 Je 15 '42

Canada

Growing importance and responsibilities of food technologists; abstract. H. McCann. Can Chem & Process Ind 25:694 D '41

Great Britain

American canned foods make hit in England. E. Hardy. il Food Ind 14:39+ Je '42

Bovril, limited, 45th annual general meeting, London. Economist 142:447 Mr 28 '42

British rations. D. V. Baker. il Mod Packaging 15:52-4+ D '41

England concentrates food manufacturing. Food Ind 14:42+ O '42

Food distribution. Economist 142:786 Je 6 '42

Food distribution shares. Economist 141:477-8 O 18 '41

Home and colonial stores limited, annual general meeting, London. Economist 142:769-71 My 30 '42

Household hints; recipes on how to use American canned pork. Business Week p40 Jl 11 '42

Profit margins; storm in the grocery and provision trades. Economist 142:711 My 23 '42

Volume of food sales. Economist 141:516 O 25 '41

United States

Amazing food industry; revolutionary scientific changes. F. R. Walters. il Mag of Wall St 70:542-6+ S 5 '42

Associated grocery manufacturers of America 33d annual convention, New York, Nov. 5-7. Food Ind 13:73-4 D '41

Canners' omens; profound changes may be on horizon for fruit and vegetable packers. Business Week p50 Ja 17 '42

Canners' quotas. Business Week p50-2 Ja 31 '42

Changing pattern of industry. Adv & Sell 35:40 S '42

Dehydrated food industries are expanding; tripled output in '43? E. M. Kelley. il Sales Management 51:40+ S 1 '42

Food conversion; canners are turning to new products, with dehydration as best bet. Business Week p59-60 Ap 18 '42

Food industry supports general defense; problems being met in feeding the nation, its armed forces and its allies. W. H. Hillyer. Barron's 22:9 My 25 '42

Food men tell story of their war contribution. Barron's 22:7-8 My 25 '42

Food men told; Nelson warns industry that it can't expand. Business Week p52+ N 15 '41

Food must be packaged, even in wartime. il Food Ind 14:35-6 Ap '42

Food output, buying power at peak levels. Comm & Fin Chr 155:229 Ja 15 '42

Food week: 1942. Business Week p44-6 Ja 24 '42

Foods for sale; farmers still have surpluses to move. Business Week p77+ My 23 '42

Food's war worry. Business Week p42+ My 30 '42

Growers, packers prepare to hit Hitler, feed 200,000,000 people. Sales Management 50:65-7 F 15 '42

How higher payrolls affect food consumption. Barron's 21:12 D 29 '41

Mixed outlook for food companies. il Mag of Wall St 69:428-32 Ja 24 '42

Monopoly in retail food distribution. H. M. Foster. J Retailing 17:112-19 D '41

New WPB regulation affects all food plants. W. B. Spooner, jr. Food Ind 14:39-40 Ag '42

Nutrition fiasco. Business Week p50+ Mr 7 '42

Prospects for the food industry, 1942. A. S. Igleheart. Comm & Fin Chr 155:448 Ja 29 '42

Some notes about dehydration; an industry with growing pains. Sales Management 50:24, 26 Mr 1 '42

Subsidy squawks; food industry doesn't want any government money. Business Week p45+ Ag 1 '42

U.S. stuns dehydrated food industry with call for 200,000,000 pounds. il Sales Management 50:22+ Mr 1 '42

See also

Food stamp plan

Food supply—United States

United States—Food and drug administration

FOOD laboratories

Modern concepts of analysis, with special reference to food. E. B. Hughes. il diags Chem & Ind 61:103-10 F 28 '42

Research laboratory to develop new foods on pilot plant scale; Borden co., New York. F. L. Seymour-Jones. il Food Ind 14:50-2 Ja '42

FOOD laws and legislation

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:917-31 Je 19 '42

Food and drug regulation. S. Wilson. 177p $3.25; pa $2.50 Am. council on public affairs, Washington, D.C. '42

New aspects of research and law; the new Food, drug and cosmetic act. H. A. Toulmin, jr. Chem Ind 50:758-9 Je '42

Standards halted; Circuit court of appeals set aside standards of identity for farina and enriched farina. Business Week p42 Jl 11 '42

Treatise on the law of food, drugs, and cosmetics. H. A. Toulmin, jr. 1422p bibliog(p1331-8) $17.50 W. H. Anderson co, Cincinnati '42

Vitamins on label. Business Week p48+ My 16 '42

WPB orders affect foods; pertain to priority forms, jar rings, molasses, fats and oils, vitamin A, agar and sugar. Food Ind 14:72 Mr '42

See also

Labels

Milk supply—Laws and regulations

Canada

Munitions of health. A. L. Davidson. Can Chem & Process Ind 26:432, 434+ Jl '42

FOOD machinery

Lubrication

Automatic lubrication saves labor and cost, makes machines last. F. M. Hewitt and M. N. Ripley. il diag Food Ind 14:41-4 S '42

FOOD machinery corporation

From food to tanks that swim. il Fortune 26:24+ Ag '42

Further data on finances. Comm & Fin Chr 155:51 Ja 3 '42

Growth company; has stable income from leased equipment, producing armament. K. Brandon. Barron's 22:7 Ag 3 '42

Growth stocks and the investor. E. N. Chapman. Barron's 21:20 N 17 '41

Outstanding stocks for income and profit. Mag of Wall St 70:440 Ag 8 '42

Thumbnail stock appraisal. Mag of Wall St 69:205 N 29 '41

FOOD packages

Bail-out ration for army flyers and aerial gunners, pocket-size. il Mod Packaging 16:66+ O '42

FOOD poisoning

Cadmium food poisoning. S. Frant and I. Kleeman. bibliog Metal Finishing 40:131-4 Mr '42

Disease outbreaks from water, milk, and other foods in 1939. A. W. Fuchs. Pub Health Rep 56:2277-84 N 28 '41

Studies of the acute diarrheal diseases; an outbreak due to salmonella typhi murium. W. E. Mosher, jr. and others. bibliog Pub Health Rep 56:2415-26 D 19 '41

FOOD preservation

Adapting fruit and vegetable products to war needs. W. V. Cruess, M. A. Joslyn and G. Mackinney. 38p bibliog(p37-8) pa 25c Univ. of California press, Berkeley '42

Allies of refrigeration in food preservation. A. W. Ewell. bibliog Refrig Eng 43:159-61; Discussion. 161-2 Mr '42

Bread protection by addition of mold-inhibiting agent. Sci Am 166:189-90 Ap '42

Community food preservation centers. B. Furman. il plans U S Agric Misc Pub 472:1-64 '41

Conservation of refrigeration during wartime. A. W. Ewell. Refrig Eng 44:157 S '42

Control of bacteria in dry food products; abstract. P. S. Prickett. Food Ind 14:110 Je '42

Food preservation prospectus. J. B. Hosmer and others. 96p pa 75c Georgia school of technology, Atlanta '41

Home preparation and preservation of food. M. C. Pfund. J Chem Educ 19:138-43 Mr '42

How to sulphur fruit for Great Britain. Food Ind 14:61+ Ja '42

Lard-cooled ships; fats as insulation for perishable foods makes refrigeration unnecessary. Business Week p54 N 29 '41

Modern advances in preventing food spoilage. W. Clayton. Chem Age (Lond) 45:105-7 Ag 23 '41; Excerpt. Mod Packaging 15:64+ F '42

New food processes to benefit the Americas. E. N. Bressman. For Comm W 9:11+ O 31 '42

Preventing spoilage by mold and bacteria. E. F. Glabe. il Food Ind 14:46-8 F '42

Preventing spoilage in wartime storage. E. Hardy. il Food Ind 14:44-5 Ag '42

Producing and storing the home food supply. diag Consumers' Research Bul 9:15-18 Mr '42

See also

Canned food

Canning and preserving

Cold storage

Fish as food—Preservation

Food, Dried

Food, Frozen

Smoking of food

Vegetables, Frozen

FOOD preservatives

Report of a study on the toxicity of several food preserving agents; abstract. K. E. Harshbarger. Food Ind 14:105 Ag '42

FOOD research

Direct use of leaf protein in human nutrition. N. W. Pirie. bibliog Chem & Ind 61:45-6 Ja 24 '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:16-20 Ja 10 '42

Near 'ems don't count; experiments in keeping cake fresh. W. R. Van Meter. il Food Ind 14:39-40+ My '42

See also

Nutrition foundation

FOOD stamp plan

Burglary rates on food stamps raised. Nat Underw 46:20 F 12 '42

Food stamps and burglary. Spectator (Property ed) 7:35 Mr 5 '42

Surplus commodity stamp; Washington amends nation-wide definition. Weekly Underw 146:1115 My 16 '42

Want in the midst of plenty; the genesis of the food stamp plan. R. Harvey. 35p pa 50c Am. council on public affairs, Washington, D.C. '41

FOOD stores

Neighborhood stores for Seattle workers. il Am Bld 64:48-9 Ag '42

See also

Market stores

FOOD supply

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:917-31 Je 19 '42

Farmers as important as aircraft workers; address at meeting of National grange. H. Morgenthau, jr. Bankers Mo 59:7+ Ja '42

Food industry supports general defense; problems being met in feeding the nation, its armed forces and its allies. W. H. Hillyer. Barron's 22:9 My 25 '42

Food men tell story of their war contribution. Barron's 22:7-8 My 25 '42

Planning for total food needs. E. C. Voorhies. 34p bibliog(p34) pa 25c Univ. of California press, Berkeley '42

Purchases for lend-lease and related purposes by Agricultural marketing administration, year ended March 15, 1942. For Comm W 7:21 Ap 25 '42

Rationing and control of food supplies. J. M. Tinley. 26p bibliog(p26) pa 25c Univ. of California press, Berkeley '42

Social implications of vitamins. R. R. Williams. Science 94:502-6 N 28 '41

Some factors in the nutritional determination of history. F. Hoelzel. bibliog Science 95:251 Mr 6 '42

FOOD supply—*Continued*

Wartime food problems discussed by IFT. Food Ind 14:41-3 Jl '42

World's food position and outlook. J. S. Davis. Harvard Business R 21 no 1:43-9 [S] '42

See also

Milk supply

United States—Agricultural marketing administration

United States—War production board—Food supply branch

World war, 1939—Food question

Canada

Canadian tea, coffee, and sugar rationing regulations. For Comm W 7:14 Je 13 '42

China

Fighting China's food prospects. For Comm W 8:16 S 26 '42

Europe

Animal production in the post-war world. J. Hammond. Chem & Ind 61:283-4 Je 27 '42

Dairy products; European situation deteriorating. For Comm W 7:21-2 My 30 '42

Estimated continental European self-sufficiency in foodstuffs between 1936 and 1938. V. L. Horoth. Mag of Wall St 71:17 O 17 '42

Famine over Europe, the problem of controlled food relief. R. Walker. 185p bibliog (p181-5) 5s A. Dakers, London '41

German Europe; food rations. Economist 142:72-3 Ja 17 '42

German Europe; food supplies. Economist 143:390 S 26; 453 O 10 '42

Finland

Food shortage continues. For Comm W 8:16-17 S 5 '42

Subnormal consumption of food under rationing. For Comm W 5:14 N 29 '41

France

France's food situation. Economist 143:110 Jl 25 '42

Problems of food supply in France. Int Labour R 45:142-50 F '42

Germany

Food and agriculture. Economist 142:505-6 Ap 11 '42

Wartime food developments in Germany. H. C. Farnsworth. 36p bibliog(p34-6) pa 25c Food research inst, Stanford University, Calif. '42

Great Britain

Agriculture's challenge to the nation. A. Smith. 236p bibliog(p227-9) $2 Ryerson press '42

Britain's cost of living control. F. B. Makin. il Banking 34:31-3 Ja '42

Children's rations. Economist 142:389 Mr 21 '42

Coming harvest in the United Kingdom. Science 95:319 Mr 27 '42

Differential rationing. Economist 141:501-2 O 25 '41

Economic conditions; new system of food distribution. For Comm W 5:26 N 15 '41

Extension of rationing and price control in Great Britain. Monthly Labor R 54:1222-3 My '42

Feeding Britain in wartime. Bankers M 143:520-1 D '41

Feeding the nation in peace and war. G. Walworth. 548p $5 Norton '40

Feeding the people; communal feeding vs. private caterers. Economist 142:64 Ja 17 '42

Food control in Great Britain. E. T. Denhardt. 272p pa $1.25 Int. labor office '42; Abstract. Monthly Labor R 55:728-34 O '42

Food distribution and rationing in Great Britain. Monthly Labor R 53:1401-2 D '41

Food for Britain helps us; apparent paradox in modern nutrition. T. S. Harding. il Sci Am 166:117-20 Mr '42

Food for Britain; rationing and price control are basic in present policy. R. S. Harris. il Tech R 44:221-3+ Mr '42

Food front in 1942. Economist 142:37 Ja 10 '42

Food-producing power of Great Britain. Science 96:360-1 O 16 '42

Food ration changes, 1941. Economist 141:483-4 O 18 '41

Food storage buildings. Engineer 173:119 F 6 '42

Food substitutes. E. Voelcker. Chem & Ind 61:192-4 Ap 25 '42

Foodstuffs, 1941; imports, home production, rationing. Economist 142:sup17-19 Mr 14 '42

Foodstuffs; statistics of purchases in the United States. For Comm W 7:16 Ap 11 '42

John Bull eats American; dehydrated eggs, milk, vegetables, and meats. il Business Week p35-6+ Je 13 '42

John Bull's rations. Business Week p34, 39-41+ Ja 31 '42

Nation's food; cereals as food; the chemical composition and nutritive value of maize, rice, rye, and barley. W. P. Ford. bibliog Chem & Ind 60:875-8 D 13 '41

Nation's food; meat as food. J. Hammond and others. Chem & Ind 61:334-5, 373-7, 381-2 Ag 1, S 5-12 '42

Nutrition in Great Britain; abstract. J. B. Orr. Science 96:sup10 N 6 '42

Points for tins; foods to be distributed by point system. Economist 141:559-60 N 8 '41; Trusts & Estates 74:23 Ja '42

Points rationing. Economist 143:265 Ag 29 '42

Rationing of canned foods in Great Britain. Monthly Labor R 54:461 F '42

Ruling on hoarding. Economist 142:422 Mr 28 '42

Table d'utilité; restricting restaurant meals. Economist 142:675-6 My 16 '42

Greece

Blockade again; pressure to relax blockade in favor of Greece. Economist 142:102 Ja 24 '42

Starving Greece. Economist 142:225-6 F 14 '42

Hawaiian Islands

Plan to provide Hawaii with civilian supplies. Comm & Fin Chr 154:1672 D 25 '41

Ireland

Eire's food policy. Economist 142:72 Ja 17 '42

Italy

Italian wartime economy; food control and rationing. For Comm W 5:6-7 D 20 '41

Italian wartime economy; food production and trade. For Comm W 5:6+ D 6 '41

Norway

Norway's food situation. Economist 141:752-3 D 20 '41

Palestine

Palestine's food problem. Economist 143:419 O 3 '42

Portugal

Portugal's food supply. Economist 141:534-5 N 1 '41

Russia

Workers' supplies; reorientation of Soviet food policy in industrial centres. Economist 142:759 My 30 '42

Sweden

Sweden issues new regulations on food rations to merchant marine. For Comm W 7:23 My 23 '42

Sweden's conversion of foodstuffs. For Comm W 8:26 Ag 1 '42

Switzerland

Public required to raise part of own food. For Comm W 5:18 D 20 '41

Supply situation continues to deteriorate. For Comm W 6:15 Ja 17 '42

Switzerland reduces consumption. Economist 141:752 D 20 '41

Turkey

Bread-ration cards instituted in Istanbul. For Comm W 7:18 Ap 11 '42

FOOD supply—*Continued*

United States

Agricultural goals and food for freedom require increased production from farms in '42. N. J. Wall. Comm & Fin Chr 155:1052 Mr 12 '42

Agricultural supplies for war. C. R. Wickard. Ann Am Acad 220:125-35 Mr '42

America's food problem recast. il Business Week p15-16 O 31 '42

Civilian food supply outlook for 1943. Barron's 22:6 O 26 '42

Control of food prices. J. M. Tinley. 33p bibliog(p33) pa 25c Univ. of California press, Berkeley '42

Food, a munition of war. Barron's 22:6 O 5 '42

Food for Britain helps us; apparent paradox in modern nutrition. T. S. Harding. il Sci Am 166:117-20 Mr '42

Food for freedom; advertisers' huge stake in feeding America properly. T. S. Harding. il Ptr Ink 198:19-20+ Ja 2 '42

Food for the war. Nat City Bank p81-3 Jl '42

Food production goals for 1942. N. J. Wall. il Burroughs Clearing House 26:12-13+ Ap '42

Food supplies. Survey of Cur Business 22:9-11 Jl '42

Full dinner pail; record food production is shown by D. of A. crop report. Business Week p85 Ag 22 '42

Meat scramble. il Business Week p17-18 O 24 '42

More fats and oils needed. Barron's 22:6 Ap 20 '42

New war foods board. Comm & Fin Chr 155:2207 Je 11 '42

1942 food campaign opens; spring planting intentions. Barron's 26:6 Mr 30 '42

Not enough fish. Business Week p30+ S 19 '42

Planting intentions as of March 1, 1942. Comm & Fin Chr 155:1346 Ap 2 '42

President says sub-parity grain sale is vital to the war time effort. Comm & Fin Chr 156:189 Jl 16 '42

War diets may be more simple and healthful. C. Vogel. Barron's 22:5 Mr 2 '42

War food requirements committee. Food Ind 14:35-6 Je '42

FOOD technologists, Institute of. See Institute of food technologists

FOOD technology

Abstracts of papers read before the Minneapolis meeting of the Institute of food technologists. Science 95:sup 10+ Je 19 '42

Outlines of food technology. H. W. von Loesecke. 505p $7; college ed $5 Reinhold pub. corp. '42

Revolution comes to the food industries. I. C. Miller. il Food Ind 14:39-41 O '42

Technologists reveal new knowledge about foods; abstracts of papers at meeting of American chemical society. Food Ind 14:73-4 O '42

FOOT

Foot and ankle; their injuries, diseases, deformities and disabilities, with special application to military practice. P. Lewin. 2d ed 665p bibliog(p620-8) $9 Lea & Febiger, Philadelphia '41

Foot wear and tear. W. S. Creer. il Nat Safety N 45:27, 62 Ja '42

Footwork; suggestions for foot conservation. C. M. Willard. il Nat Safety N 46:26-7+ Jl '42

Treating puncture wounds. Nat Safety N 46:85 S '42

See also

Shoes, Safety
Toes

FOOTBALL

Down in front! photographing football games. R. M. Beer. il Am Phot 36:24-6 S '42

FOOTE, Harry Ward, 1875-1942

Sketch. Am J Sci 240:302-8 bibliog(p305-8) Ap '42

Sketch. T. B. Johnson. Science 95:241-2 Mr 6 '42

FOOTINGS

Foundations for buildings; settlement problems encountered in the design of spread footings. J. Feld. il diags Civil Eng 12:13-16 Ja '42

Rectangular footings; determination of ultimate bearing pressure; abstract. H. Q. Golder. Am Concrete Inst J 14:82-3 S '42

FOOTINGS, Column. See Column footings

FOOTINGS, Concrete

Boulder transmission line utilizes poured-in-place foundations. K. A. Reeder. il diags map Civil Eng 11:722-5 D '41

Construction of smaller buildings: mass concrete footing design data; with time-saver standards. W. H. Hayes. Arch Rec 91:77 My '42

Wall and column footings without steel. V. H. Bergman. diags Eng N 129:114-15 Jl 16 '42

FOOTPRINTS, Fossil

Chugwater footprints from Wyoming. R. S. Lull. il Am J Sci 240:500-4 Jl '42

Triassic footprints from Argentina. R. S. Lull. diags Am J Sci 240:421-5, pl 1 Je '42

FORAGE plants

See also

Feeding and feeding stuffs
Grasses

FORAMINIFERA, Fossil

Amoura shale, Costa Rica. P. P. Goudkoff and W. W. Porter, 2d. bibliog map Am Assn Pet Geologists Bul 26:1647-55 O '42

Foraminifera of submarine cores from the Continental slope, part 2. F. B. Phleger, jr. bibliog map Geol Soc Bul 53:1073-97, pl 1-3 Jl '42

Foraminiferal genus hantkenina and its subgenera. H. E. Thalmann. bibliog Am J Sci 240:809-20, pl 1 N '42

Oligocene foraminifera near Millry, Alabama. J. A. Cushman and W. McGlamery. U S Geol S Professional Pa 197-B:65-84, pl 4-7; pa 10c Supt. of doc. '42

Stratigraphic and paleontologic studies of wells in Florida. W. S. Cole. (Geological bul. 19) 91p Dept. of conservation, State geological survey, Tallahassee, Fla. '41

See also

Fusulina

FORCE account system

Force account concrete pavement widening project. il Roads & Sts 85:28-30 My '42

FORCE and energy

Matter, energy and radiation. J. R. Dunning and H. C. Paxton. 668p $3.50 McGraw-Hill '41

See also

Dynamics
Power (mechanics)
Pressure
Quantum theory
Strains and stresses

FORD, Benson

Portrait. Business Week p50 Je 20 '42

FORD, Henry, 1863-

Mr Ford's only partner; Harry Ferguson and his tractor. por Fortune 25:66-7+ Ja '42

FORD motor company

Developments in Ford foundries. A. H. Allen. il Foundry 70:92, 94+ Jl '42

Ford activities in connection with war manufacture. Iron Age 149:218, 220 Ja 1 '42

Ford bargain ends; company opposes renewal; union wants additional concessions. Business Week p50+ Je 20 '42

Ford bucks FPHA housing development in backyard of his Willow Run plant. Eng N 129:58 Jl 9 '42

Ford case not indicative of trend in group insurance. Nat Underw 46:21 Ap 9 '42; Nat Underw (Life ed) 46:3 Ap 10 '42

Ford drops huge group cover. Nat Underw (Life ed) 46:1+ F 13 '42

Ford fast one; abandonment of group insurance answers criticism of workers. Business Week p80 F 14 '42

FORD motor company—*Continued*

Ford group case goes to John Hancock. Nat Underw (Life ed) 46:3 Mr 6 '42; Same. Nat Underw 46:29 Mr 5 '42

Ford magnesium alloy foundry. E. F. Cone. il Metals & Alloys 15:396-402 Mr '42

Ford makes magnesium. G. E. Stedman. flow sheet il Chem & Met Eng 49:134-7 S '42; Same cond. Metals & Alloys 16:926+ N '42

Ford-U.A.W. pact. Business Week p77 O 3 '42

How they bargained at Ford. Business Week p92-6 D 6 '41

Injection-molding methods. H. Chase. il Am Mach 86:829-31 Ag 6 '42

Motor cars to munitions. il Am Mach 86: 562-72 Je 11 '42

New Ford group cover perfected; rates. Nat Underw 46:25 Mr 19 '42

Plug wage hole in Ford decision. Business Week p96+ O 24 '42

Sorensen of the Rouge; besides making engines, tanks, and guns, he is running the biggest bomber factory in the world. il Fortune 25:78-81+ Ap '42

Tire retreading plan. Comm & Fin Chr 156: 428 Ag 3 '42

Union's insurance; U.A.W., John Hancock Life devise policy to replace that canceled by Ford. Business Week p72-3 Mr 21 '42

Willow Run bomber plant. il Arch Rec 92: 39-46 S '42

FORD motor company, England

Record profits for Ford. Economist 143:214 Ag 15 '42

FOREIGN born citizens. See United States—Foreign population

FOREIGN exchange

Bermuda's new exchange regulations. For Comm W 5:9 N 29 '41

Brazil—U.S. extend stabilization pact. Comm & Fin Chr 156:189 Jl 16 '42

Canada's exchange control in action. J. Montagnes. il Burroughs Clearing House 26:24-5+ N '41

Canada's travel problem. S. A. Shepherd. Bankers M 143:380-4+ N '41

Change in rate for dollar notes. Economist 143:244 Ag 22 '42

Controls tightened on currency import. Comm & Fin Chr 156:1639 N 5 '42

Cuban restrictions on foreign currency movements. For Comm W 8:15-16 S 5 '42

Danish-German exchange adjustment. Economist 142:296 F 28 '42

Defence of the pound. Economist 143:sup10 S 19 '42

Dollar dilemma; Canada faces problem of how to recapture profits on exchange if plan to equalize two currencies is dropped. Business Week p48-9 Mr 7 '42

European, Far Eastern, and other exchange rates. Published in Foreign commerce weekly

Finance under co-prosperity in east Asia. Economist 142:862 Je 20 '42

Foreign exchange rates. Published in weekly Monday numbers of Commercial & financial chronicle

Foreign exchange rates, 1934-1940, and monthly Dec. 1940-Nov. 1941. Fed Res Bul 28:89 Ja '42 [cont monthly]

Foreign exchanges, 1941. Economist 142:sup7 Mr 14 '42

Foreign funds control; general licenses, rulings, etc. issued by the Secretary of the Treasury. Published in monthly numbers of Federal reserve bulletin

Hemisphere dollar needed. Comm & Fin Chr 155:954 Mr 5 '42

Morgenthau favors world trade dollar. Comm & Fin Chr 155:584 F 5 '42

Petain's annuity and other problems. Economist 141:599 N 15 '41

Post-war prosperity possible if world currencies are stabilized. C. M. Wynne. Bankers Mo 59:5-7 Ja '42

Restrictions on United States currency by Mexico, Nicaragua. For Comm W 8:14, 15-16 S 26 '42

Revision of Canadian foreign-exchange and acquisition orders; liberalization of regulations affecting sterling. For Comm W 6:11 Ja 31 '42

Settlement of old accounts; the Iranian exchange commission agreement. For Comm W 6:16 Ja 3 '42

Turkish exchange policy. Economist 142:800-1 Je 6 '42

U.S.-Ecuador currency pact. Comm & Fin Chr 155:1049 Mr 12 '42

See also

Balance of payments

World war, 1939—

Freezing of assets

FOREIGN investments. See Investments, Foreign

FOREIGN language press

Bibliography

Bibliography of foreign language newspapers and periodicals published in Chicago. 150 numb l Chicago public lib. omnibus project, Chicago '42 [supply limited]

FOREIGN owned property. See Investments, Foreign (in United States)

FOREIGN trade. See Commerce; Export trade; Imports; United States—Commerce

FOREIGN trade council, National. See National foreign trade council

FOREIGN trade zones. See Free harbors

FOREIGNERS. See Aliens; United States—Foreign population

FOREMEN

Code of a good foreman. C. Reitell. il Factory Management 100:108-9 S '42

Do you want to be a foreman? A. Walton. 165p $1.25 McGraw-Hill '41

Foreman and industrial relations. H. D. Farren and G. A. F. Brannon. Aero Digest 41:129+ S '42

Foreman in war time. E. R. Granniss. Nat Safety N 46:10-11, 60+ Jl '42

Foreman personalizes management. D. D. Decker. Am Mach 86:760 Jl 9 '42

Foreman takes over; accident prevention. R. S. Elberty. Safety Eng 82:16 D '41

Foremanship fundamentals. A. L. Kress. 276p $2.50 McGraw-Hill '42

Foremen rewarded for efficiency in shell manufacture. Mach 49:181 S '42

Foremen's union; expects to go national. Business Week p58-9 Ag 29 '42

Meet Mr Budget; simple manual points out that each foreman should plan his own budget. D. Purves. Factory Management 100:97+ Ja '42

Present-day foreman. W. L. Roscoe. Explosives Eng 20:72-4 Mr '42

Prize winning foreman essays (1941). 28p Nat. ind. conf. bd. '42

Supervision; selection. H. Moore. Personnel J 20:353-6 Ap '42

War brings new problems to the cement industry. R. A. Dittmar. Rock Prod 45:76+ Ag '42

Welcoming the new man. R. Jones. il Factory Management 100:92-3+ My '42

See also

Mine foremen

Rating

Foremen: rate yourselves; foreman's balance sheet. H. F. Dunning. Textile World 92:117 O '42

Training

Finding and training supervisors; Murray corporation of America, Detroit. M. B. Lindquist. Factory Management 100:74-5+ Ag '42

Foremanship development in Great Britain. F. J. B. Morton. Engineering 154:163-4, 182-3, 202-4, 223-4, 243, 264-5, 284 Ag 28-O 9 '42

Foremanship training in the United States. F. J. B. Morton. Engineering 152:303-4, 324-5, 342-4, 362-4 O 17-N 7 '41

Instructing new supervisors in plants converted to war work. A. M. Cooper. Mach 49:160-1 S '42

FOREMEN—Training—*Continued*

Machine tools and aircraft. T. Berna. il Aero Digest 40:183-4, 187 F '42

Speeding war work by simplification; Walter Kidde & company. Marine Eng 47:118 My '42

Supervision; training. D. E. Jackey. Personnel J 20:357-62 Ap '42

Teaching foremen to teach workers. W. Odom. Am Business 12:19-20+ Mr '42

Technical education of works foremen. J. H. Clayton. Chem & Ind 60:827-8 N 22 '41

Upgrading supervision by training. C. E. Fonda. il Aero Digest 41:219+ O '42

Wanted: one million supervisors. A. M. Cooper. il Am Mach 86:701-3 Jl 9 '42; Abstract. Management R 31:341-2 O '42

FOREMEN'S conferences

Foremanship development in Great Britain. F. J. B. Morton. Engineering 154:202-4 S 11 '42

Using foremen conferences to build morale. D. Purves. Factory Management 100:99 Jl '42

FOREST conservation

American conservation in picture and in story. O. M. Butler, ed. rev ed 160p bibliog (p152-60) $2.50 Am. forestry assn, Washington, D.C. '41

Pennsylvania state forests; statement against destructive lumbering. G. Pinchot. Science 96:198-9 Ag 28 '42

Protection against forest fires; resolution by American forestry association on protection of forest and related resources. Science 95: 450 My 1 '42

Reviewing 40 years of forest conservation. E. Wilson. Pulp & Pa of Can 43:631-2 Jl '42

FOREST fire patrol

Radio for forest protection. C. E. Jackson. il Radio N 27:46-8+ My '42

U.S. asks 150,000 volunteer fire-fighters. Pulp & Pa of Can 43:840 O '42

FOREST fire patrol, Aerial

Aircraft radio guards forests against saboteurs. S. R. Winters. il Aero Digest 41: 101-2 Jl '42

FOREST fires

Annual battle; early fire in Alberta. J. R. H. Hall. Pulp & Pa of Can 43:455-6 My '42

British Columbia guards against sabotage. Paper Tr J 114:29 My 7 '42

Fears enemy sabotage of N. B. forests; New Brunswick section, Canadian forestry association 2d annual meeting. Pulp & Pa of Can 43:383 Ap '42

Fire control and fire control roads in Nicolet national forest. L. Tausch, jr. il map Roads & Sts 85:54-6+ S; 41-3, 62 O '42

Fire in the forest. C. H. Rise. il Nat Safety N 46:64-5+ O '42

Forest fire loss light in New Brunswick. G. L. Miller. Pulp & Pa of Can 43:389-90 Ap '42

Forest fire peril; West Coast lumbermen, alive to war problem, map a program of protection. Business Week p22 Ap 11 '42; Reply. D. Parkinson. p79 Je 20 '42

Forest fire program in New Brunswick. Pulp & Pa of Can 43:456 My '42

Forest fire protection. Science 95:295 Mr 20 '42

Forest fire research in 1941. Pulp & Pa of Can 43:461 My '42

Forest fires greatly reduced in protected areas. Sci Am 166:202 Ap '42

Radio-equipped smoke jumpers; parachuting forest fire fighters. S. R. Winters. il Radio N 27:6-8+ Ap '42

Slash-burning law in British Columbia. Pulp & Pa of Can 43:718 Ag '42

Stocking of lodgepole pine after fire. H. A. Parker. Pulp & Pa of Can 43:774 S '42

FOREST management

Crown Zellerbach forestry program. Paper Tr J 114:60 F 19 '42

Cutting based upon economic increment. S. O. Heiberg. bibliog Pulp & Pa of Can 43: 833-8 O '42

Forest management. C. C. Heimburger. Pulp & Pa of Can 42:725-6 N '41

Requirements for operating second-growth pine lands. R. R. Reynolds. Pulp & Pa of Can 43:832 O '42

Slash disposal and forest management after clear cutting in the Douglas fir region. J. B. Woods. Pulp & Pa of Can 42:798 D '41

FOREST mensuration

Forest mensuration. D. Bruce and F. X. Schumacher. 2d ed 425p $4 McGraw-Hill '42

Sampling methods in forestry and range management. F. X. Schumacher and R. A. Chapman. 213p bibliog(p210-13) $2.50; pa $2 Duke univ, School of forestry, Durham, N.C. '42

FOREST products

See also

Acetic acid
Gums and resins
Lumber
Naval stores
Pine
Rubber
Turpentine
Wood
Wood pulp
Wood waste

FOREST reserves

Fire control and fire control roads in Nicolet national forest. L. Tausch, jr. il map Roads & Sts 85:54-6+ S; 41-3, 62 O '42

Routt national forest, Colorado. 18p U.S. Forest service, Rocky mountain region, Denver '41

FOREST roads

Fire control and fire control roads in Nicolet national forest. L. Tausch, jr. il map Roads & Sts 85:54-6+ S; 41-3, 62 O '42

FORESTRY research

Eight years growth in hardwood stands on the Barlett experimental forest. V. S. Jensen. Pulp & Pa of Can 42:797-8 D '41

FORESTS, Buried. See Forests, Submerged

FORESTS, Submerged

Buried forests of New Jersey. il Fortune 26: 20+ Ag '42

FORESTS and forestry

Care to forest soil brings profits. S. Grossman. Pulp & Pa of Can 43:773-4 S '42

Establishment of reproduction of usable species. W. M. Robertson. Pulp & Pa of Can 43:267-9+ F '42

Forest soils; origin, properties, relation to vegetation, and silvicultural management. S. A. Wilde. 384 numb l $3.60 Kramer business service, Madison, Wis. '41

Seeding and planting in the practice of forestry. J. W. Toumey and C. F. Korstian. 3d ed 520p $5 Wiley '42

Spruce sawfly outbreak in 1941. R. E. Balch. map Pulp & Pa of Can 43:385-9 Ap '42

Use of transect sample plots in the study of conditions on cut-overlands. W. M. Robertson. Pulp & Pa of Can 43:769-72 S '42

See also

Lumber trade
Lumbering
Pine
Rubber plants and planting
Trees
Wood

Bibliography

List of books on forestry and outdoor subjects. 6p Am. forestry assn, 919 17th st, NW, Washington, D.C.

Taxation

Massachusetts forest tax law. D. Rozman. J Land & Pub Util Econ 18:363-5 Ag '42

British Columbia

Active reforestation in B.C. A. W. Gray. Pulp & Pa of Can 43:322 Mr '42

Forest pathology in British Columbia. J. E. Bier. Pulp & Pa of Can 43:528, 530 Je '42

Slash-burning law in British Columbia. Pulp & Pa of Can 43:718 Ag '42

Tree planting best reforestation. Pulp & Pa of Can 43:324 Mr '42

California

Factors affecting income from second-growth forests in the western Sierra Nevada. H. R. Josephson. (Agricultural exp. station bul. 658) 72p bibliog(p71-2) Univ. of California, Berkeley '41

FORESTS and forestry—*Continued*

Canada

Forest management. C. C. Heimburger. Pulp & Pa of Can 42:725-6 N '41

Post-war plan for Canada's forests. Pulp & Pa of Can 43:449-50 My '42

Pulpwood supplies. D. R. Cameron. Pulp & Pa of Can (Convention no) 43:187, 189, 191-2 [F] '42

See also Canadian pulp and paper association—Woodlands section

Georgia

True forestry situation in Georgia. G. E. Lockwood. Paper Tr J 113:18, 21 D 25 '41

Mexico

Timber conditions in Mexico. C. D. Mell. Pulp & Pa of Can 43:775 S '42

New Brunswick

Fears enemy sabotage; New Brunswick section, Canadian forestry association 2d annual meeting. Pulp & Pa of Can 43:383 Ap '42

Forest fire loss light. G. L. Miller. Pulp & Pa of Can 43:389-90 Ap '42

Forest fire program. Pulp & Pa of Can 43:456 My '42

New Hampshire

Eight years growth in hardwood stands on the Barlett experimental forest. V. S. Jensen. Pulp & Pa of Can 42:797-8 D '41

Northwestern states

Timber farm; gigantic reforestation by Crown-Zellerbach corp. il Business Week p58 Ja 31 '42

Pennsylvania

Pennsylvania state forests; statement against destructive lumbering. G. Pinchot. Science 96:198-9 Ag 28 '42

Quebec

Forest protection in Quebec. Pulp & Pa of Can 43:382-3 Ap '42

New bugs in Gaspe forest; dendroctonus piceaperda Hopk; a detrimental or beneficial insect? A. R. Gobeil. bibliog Pulp & Pa of Can 42:730-4+ N '41

Rate of deterioration in spruce killed by the European spruce sawfly; aftermath of sawfly attack on Gaspé peninsula. C. G. Riley and A. J. Skolko. Pulp & Pa of Can 43:521-4 Je '42

Sumatra

Development of naval stores and pulpwood supplies from the pinus mercusi of northern Sumatra. D. G. Moon. il Paper Tr J 114:34-7 Ap 16 '42; Same cond. Paper Ind 24:89-90 Ap '42

United States

American silvics and silviculture. E. G. Cheyney. 472p bibliog(p454-66) $5 Univ. of Minnesota press, Minneapolis '42

America's forest resources; map. Chem Ind 51:197 Ag '42

Facing the forest future; abstracts. W. Compton. Paper Ind 24:711 O '42; Pulp & Pa of Can 43:838-9 O '42

Wisconsin

Future of private forest land ownership in the northern lake states. C. H. Stoddard, jr. bibliog J Land & Pub Util Econ 18:267-83 Ag '42

FORGE shops

Look before you forge; scope of protection from suits furnished by zoning ordinances should be considered carefully before erecting plant. L. Childs. Am Mach 86:655 Je 25 '42

Equipment

Making tractor forgings; International harvester co. H. Chase. il Metals & Alloys 15:956-61 Je '42

Lighting

Fluorescent lighting in a forge shop; case study in approved conversion lighting. diag Elec W 118:114 Jl 11 '42

FORGERY

Baldt anchors and chain for ships to sail the seven seas. E. J. McGuiness. il Mach 49:180-7 N '42

Course in forgery detection for employees of First national bank of Boston. J. B. Hitchins. Banking 34:63 D '41

Financial paper claims. S. Maurice. East Underw 43:36 F 27 '42

Law for the layman; forged certificates. M. L. Hayward. Barron's 22:16 Jl 27 '42

See also

Bankers' blanket bond

Counterfeits and counterfeiting

FORGERY insurance. See Insurance, Forgery

FORGING

Bolts by hot heading. H. Chase. il diag Am Mach 86:952-5 S 3 '42

Forged cylinder head developed by Wright. il Aviation 41:117+ Je '42

Forged cylinder heads increase power of Cyclone engine. H. E. Linsley. il Aero Digest 40:141-2 Je '42

Forging aluminum alloys. il Iron Age 150:41-6 S 10 '42

Forging aluminum alloys. H. Chase. il Am Mach 86:491-3, 644-7 My 28, Je 25 '42

Forging Buick crankshafts. A. F. Macconochie. il Steel 110:66-8 Mr 2 '42

Forging design data; reference book sheet. O. A. Wheelon. diags Product Eng 13:612-14 O '42

Forging, 1941 and current trend. W. Naujoks. il Metals & Alloys 15:52-3 Ja '42

Forging 90-mm. shells on self-contained presses. il Iron Age 149:47-50 Je 18 '42

Forging of light alloys; abstract. Metals & Alloys 15:316 F '42

Forging 37-mm. high explosive shells; Portland forge & foundry co. C. C. Barrenbrugge. il Iron Age 150:54-6 N 12 '42

Forgings and forging practice. A. F. Macconochie. il diags Steel 110:60-1, 71-2 Je 22; 56-8 Je 29; 111:78-9+ Jl 13; 76-8 Jl 27 '42

Important factors in forging practice. A. F. Macconochie. il diags Steel 110:60-2, 64 F 23 '42

Job, operation and information sheets for forge practice. A. H. Luehring. 152p pa $1 Indiana state teachers college, Terre Haute, Ind. '41

Machining forged A.P. shot; centerless grinding forged bar stock. J. B. Nealey. il diags Iron Age 150:39-44 Jl 30 '42

Metal working. Metal Prog 42:727-31 O '42

Press-forge joining aluminum and steel. il Iron Age 150:62A-62B Jl 30 '42

Shell production increased by the use of dry lubricant; graphoid-surfacing of mandrels and piercers for the hot-forging. Mach 48:132+ F '42

Sintered, forged and rolled iron powders. C. G. Goetzel. il Iron Age 150:82-4, 87-92 O 1 '42

Technical progress paces victory march. Steel 110:280+ Ja 5 '42

Worn reamers reforged to size. il Iron Age 150:43 O 29 '42

See also

Hammers, Drop

Steel forgings

Welding

FORGING furnaces. See Furnaces, Forging

FORGING machinery

Flush-riveting technique at Bell Aircraft; rivet forging machines. H. W. Ashburn. il diag Steel 110:58-9 Ja 26 '42

Forgings and forging practice, the upsetter. A. F. Macconochie. il diags Steel 111:78-9+ Jl 13 '42

Giant cast steel frame designed for rigidity; forging machine, built by National machinery company. il diag Product Eng 13:128-30 Mr '42

H P M all-hydraulic Fastraverse forging press. il Mach 48:236 Jl '42

FORGING machinery—*Continued*
Improved air clutch for forging machines. il Comp Air M 47:6720 Ap '42
One-shot method of forging shells. W. P. Muir. il diags Iron Age 149:43-6 F 26 '42
Rules governing forging machine dies. E. R. Frost. diags Metal Prog 42:756 O '42
29th buyers reference number. il Am Mach 86:267-9 Ja 22 '42
Upset forging with a butt welder; Thomson-Gibb electric welding co. il diags Iron Age 150:52-3 S 24 '42
Witter shell-forging process. J. H. Loux. il diags Mech Eng 64:123-9 F '42

FORGINGS
Design of forgings for speedier production. O. A. Wheelon. il diags Product Eng 13:524-9, 560-3, 612-14 S-O '42
Forgings producers; directory. Machine Design 14:176-82 O '42
Hot and cold press forgings. diags Am Mach 86:1125 O 1 '42
How forging design details affect cost estimations; Douglas aircraft company. O. A. Wheelon. diags Product Eng 13:641-3 N '42
Properties of heavy forgings. G. Sachs. bibliog(43 titles) diags Steel 110:76-7+ Ap 6 '42
Standard tolerances for forgings up to 100 lb. Metal Prog 42:730 O '42
See also
Steel forgings

FORMALDEHYDE
Chemical manufacturer and the national emergency. D. H. Powers. Am Dyestuff Rep 30:719-20+ D 22 '41
Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:34 O 15 '42
Chemistry of the aloins; formation of formaldehyde and furfural. J. H. Gardner and J. A. Campbell. Am Chem Soc J 64:1378-9 Je '42
Deodorant sprays; what are manufacturers doing to replace scarce formaldehyde. Soap & San Chem 18:88-9+ My '42
Effect of formaldehyde on the volatilizations of ammonia, mono-, di-, and trimethylamines. G. J. Benoit, jr. and E. R. Norris. bibliog diag Ind & Eng Chem Anal ed 14:823-5 O 15 '42
Formaldehyde from natural gas; flow chart. il Chem & Met Eng 49:154-7 S '42
Formaldehyde from natural gas; with patent list. H. A. Levey. bibliog il Chem Ind 50:204-6 F '42
Formaldehyde, its increasing importance in textile processing. Textile Col 64:86+ F '42
New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42
Price schedule. Iron Age 149:136 Ja 1 '42
Protein-aldehyde plastics; combination of formaldehyde with acid casein and with rennet casein. D. C. Carpenter and F. E. Lovelace. bibliog il Ind & Eng Chem 34:759-63 Je '42
Quantitative investigations of amino acids and peptides; equilibria between amino acids and formaldehyde. E. H. Frieden, M. S. Dunn and C. D. Coryell. bibliog diag J Phys Chem 46:215-21 F '42
Rate of reduction of vanadium pentoxide in concentrated acid solutions; reduction of vanadium pentoxide by arsenious acid, oxalic acid, formaldehyde and ethyl alcohol. M. Bobtelsky and A. Glasner. bibliog Am Chem Soc J 64:1462-9 Je '42
Shrink-proofing fabrics with formaldehyde. Textile Col 63:701-2 D '41
Treatment for improving nylon; patent. Textile Col 63:666-7 D '41
Vibration-rotation energies of planar ZXY_2 molecules. S. Silver and E. S. Ebers. bibliog J Chem Phys 10:559-74 S '42

Analysis

Determination of formaldehyde in air. E. C. Barnes and H. W. Speicher. bibliog J Ind Hygiene 24:10-17 Ja '42

FORMALIN. See Formaldehyde

FORMAMIDE
Viscosity of formamide-dioxane solutions at 5, 25 and 40°. W. G. Parks, I. M. LeBaron and E. W. Molloy. bibliog Am Chem Soc J 63:3331-6 D '41

FORMAZYL compounds
Associating effect of the hydrogen atom; the N-H-N bond; virtual tautomerism of the formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p820-3 D '41
Azo-group as a chelating group; metallic derivatives of arylazo-oximes and of formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p823-6 D '41

FORMEX wire. See Electric wire

FORMIC acid
Entropy of the monomeric forms of formic acid and acetic acid. J. O. Halford. bibliog J Chem Phys 10:582-4 S '42
Oxalic acid from sawdust; optimum conditions for manufacture. D. F. Othmer, C. H. Gamer and J. J. Jacobs, jr. bibliog flow sheet Ind & Eng Chem 34:262-7 Mr '42
Relative acid strengths of formic, acetic, and propionic acids in alcohols and dioxane-water mixtures. M. Kilpatrick and R. D. Eanes. bibliog Am Chem Soc J 64:2065-7 S '42

FORMING tools
Tool for re-forming two-piece compression copper tubing couplings. J. C. Whitwell and W. T. McKee. diags Chem & Eng N 20:1109-10 S 10 '42

FORMOSA
Formosa today. A. J. Grajdanzev. 193p pa $1 Inst. of Pacific relations, New York '42

Economic conditions

Formosa today; an analysis of the economic development and strategic importance of Japan's tropical colony. A. J. Grajdanzev. 193p pa $1 Inst. of Pacific relations, 129 E. 52d st, New York '42

FORMS (law)
Legal forms, trend towards simplification and streamlining. Banking 35:41 Ag '42

FORMS and blanks, Business
New iron and steel scrap forms for dealers, producers, consumers. Iron Age 148:99C-99D N 20 '41
Pullman's one writing parts order plan. il Am Business 12:14-15 Ag '42
Sense and nonsense in office forms. Management R 31:46-7 F '42
Standardized office forms help simplify production details; Lockheed aircraft corp. D. M. McKenney. il Aero Digest 41:121-2+ S '42
When you think you need more office help; saving in properly designed forms. il Am Business 12:25 My '42
See also
Banks and banking—Forms, blanks, etc.

FORSHAY, Royce Whitney, 1902-
Portrait. East Underw 43:22 Ap 17 '42

FORSTERITE
Design and operation of an electric load-test furnace. M. S. Nelson and R. R. Ralston. bibliog il diags Am Cer Soc J 25:112-16 F 15 '42
Design, construction and operation of open hearth with basic roof. L. B. Lindemuth. diags Iron Age 148:44-9 N 13 '41

FORT PECK, Montana
Fort Peck slide. T. A. Middlebrooks. il diags Am Soc C E Proc 66:1729-48 D '40; Discussion. 67:488-90, 723-6, 891-8, 1242-4, 1887-8; 68:152-6 Mr-My, S, D '41-Ja '42

FORT WAYNE, Indiana
See also
Housing—Fort Wayne, Indiana

Rapid transit

Fort Wayne likes trolley shoes. il map Transit J 86:248-9 Jl '42

FORTUNE (periodical)
Fortune survey; an announcement. Fortune 26:10 O '42

FORTY plus clubs

Forty plus men finding jobs. Barron's 22:5 Jl 20 '42

FORWARDING companies

Court defines forwarder of goods as distinguished from carrier. East Underw 43:37 Ap 17 '42

Forwarder report adopted by Senate. Ry Age 112:911+ My 9 '42

Freight forwarders. F. L. Barton and R. B. McGehee. bibliog Harvard Business R 20 no 3:336-47 [Ap] '42

Freight forwarders are placed under ICC control. Comm & Fin Chr 155:2220 Je 11 '42

Freight forwarders bill approved by Congress. Oil Paint & Drug Rep 141:7 My 18 '42

Regulation, please; freight forwarders plead for it. Business Week p45-6 D 6 '41

FOSSILS. See Paleobotany; Paleontology

FOSTER, E. R. 1889-

Fathers and sons in chemistry. por Chem & Eng N 20:325 Mr 10 '42

FOSTER, Robert T. 1914-

Fathers and sons in chemistry. por Chem & Eng N 20:325 Mr 10 '42

FOSTER WHEELER corporation

Another look. Mag of Wall St 69:728 Ap 4 '42

Listing authorized. Comm & Fin Chr 155:1678 Ap 27 '42

FOUNDATION company

Foundation company. Comm & Fin Chr 156:1088 S 24 '42

FOUNDATION soils

Compaction of cohesionless foundation soils by explosives. A. K. B. Lyman. il diags plan map Am Soc C E Proc 67:769-80 My '41; Same cond. Engineer 172:45-6 Jl 18 '41; Discussion. Am Soc C E Proc 67:1511-12; 68:164-6, 285-6 O '41, Ja-F '42

Factors entering into the determination of allowable loads on Chicago subsoils. R. B. Peck. diags W Soc E J 47:69-78 Ap '42

Foundation saver, prefabricated parts; new house of 194x. diags plans Arch Forum 77:71-3 S '42

Foundations. R. R. Minikin. diags Engineer 172:448-50 D 26 '41

Rectangular footings; determination of ultimate bearing pressure; abstract. H. Q. Golder. Am Concrete Inst J 14:82-3 S '42

Suitability of stabilized soil for building construction. E. L. Hansen. il diags Ill U Eng Exp Sta Bul 333:1-37 bibliog(p35-7) '41 (pa 45c)

Swellability of clays in foundations; abstract. K. Endell. diag Chem & Met Eng 48:176-7 N '41

See also

Dams—Foundations
Marshes
Roads—Subgrades
Sand
Soil mechanics

Testing

Analysis of soil bearing test for highway bridge construction. S. M. May. diags Roads & Sts 84:34-5 N '41

Apparatus for measuring the shear strength of soils. H. Q. Golder. il diags Engineering 153:501-3 Je 26 '42

Cohesionless soil samples by freezing. F. E. Fahlquist. il diags Eng N 129:229-31 Ag 13 '42

Designing foundation courses for highway surfaces; abstract. F. J. Grumm. Roads & Bridges 80:76 F '42

Foundation tests for Los Angeles steam plant. W. F. Swiger. il diags plan Civil Eng 11:711-14 D '41

Load-bearing characteristics of landfills. R. Eliassen. il diag Eng N 129:369-71 S 10 '42

Measurement of cohesive soil properties applied to engineering design. W. S. Housel. il diags Civil Eng 12:442-5 Ag '42

New sampler for soft and sandy soils. H. D. Hammond. il diags Eng N 129:308-9 Ag 27 '42

Pneumatic loading of soil samples. E. J. Kilcawley. il Civil Eng 12:393-4 Jl '42

Static load tests for bearing piles. V. Hansen and F. N. Kneas. il Civil Eng 12:545-7 O '42

Technique of determining shearing strength of soils; progress report of a special committee of the Soil mechanics and foundations division on the technique of soil tests. il Am Soc C E Proc 68:255-63 F '42; Discussion. 68:263-4, 627-8, 1031-2, 1181-5 F, Ap, Je, S '42

FOUNDATIONLESS buildings

Foundation saver, prefabricated parts; new house of 194x. diags plans Arch Forum 77:71-3 S '42

FOUNDATIONS

Fast foundations in frozen ground. il Eng N 128:853 My 21 '42

Foundations. R. R. Minikin. diags Engineer 172:428-30, 448-50 D 19-26 '41

Foundations for self-supporting towers and stacks. T. T. Gill. 27p bibliog(p27) pa $1 Delta press, Los Angeles '41

Grouting checks foundation vibration; gas compressor station of the Cities service gas co. at Wichita. il Eng N 129:561-2 O 22 '42

Navy warehouse foundation on bottom-bearing piles with concrete tips. J. H. Thornley. il Civil Eng 12:372-3 Jl '42

Piled foundations. S. Packshaw. diags Mech Handling 29:85-9 My '42

Pours foundation through 400-foot pipe line; foundations for a blast furnace. il Steel 111:159 S 14 '42

Progress in the structural elements of buildings. T. L. Condron. il diags W Soc E J 47:224-9 O '42

Remodeling construction; time-saver standards. C. T. Sigman. diags Arch Rec 91:2-3 F '42

Reparation works. A. R. Warnes. diag Chem & Ind 60:887-9 D 20 '41; Discussion. 61:11-13 Ja 3 '42

Soil pressure distribution along flexible foundations. A. Bull. diags Franklin Inst J 233:559-80 Je '42

Special shoring for building excavation; West central heating plant for the Public buildings administration in Washington. il diags Eng N 129:16-17 Jl 2 '42

Stovepipe forms speed winter concreting; foundations for 150 barracks and officers' quarters at three New England projects. il Eng N 129:346-7 S 10 '42

Timber friction pile foundations. F. M. Masters. il diags Am Soc C E Proc 67:1657-82 N '41; Discussion. 68:297-8, 629-34, 801-3, 1041-53, 1159-67, 1407-10 F, Ap-Je, S-O '42

Use of dynamite saves time and money in refinery construction; removing concrete foundations. R. G. Lovell. il Pet Eng 13:125 D '41

War plant buildings without footings; unreinforced-concrete floor slabs, integral with wall sills and column pedestals. il diags Eng N 129:350-2 S 10 '42

See also

Bridges—Foundations and piers
Building
Caissons
Cofferdams
Column footings
Dams—Foundations
Earthwork
Excavation
Footings, Concrete
Foundation soils
Piers (foundations)
Piles and pile driving
Roads—Foundations

Settlement

Bending settlement of a slab resting on a consolidating foundation. M. A. Biot and F. M. Clingan. J Ap Phys 13:35-40 Ja '42

Effect of settling pier. O. Ebel. diag Eng N 128:43 Ja 1 '42

Factors entering into the determination of allowable loads on Chicago subsoils. R. B. Peck. diags W Soc E J 47:69-78 Ap '42

Foundations for buildings; settlement problems encountered in the design of spread footings. J. Feld. il diags Civil Eng 12:13-16 Ja '42

Pressure-grouting with cement-loam mixture restores settled buildings. il diags Concrete 50:2-3 N '42

FOUNDATIONS—Settlement—*Continued*

Static load tests for bearing piles. V. Hansen and F. N. Kneas. il Civil Eng 12:545-7 O '42

FOUNDATIONS, Charitable and educational

American foundations and their fields. G. Seybold, comp. 5th rev ed 274p $5 Raymond Rich associates, New York '42

Foundations' assets near $1½ billion mark. Comm & Fin Chr 155:2128 Je 4 '42

To do something for the welfare of mankind. B. C. Smith. Science 95:384 Ap 10 '42

See also

Carnegie corporation
Commonwealth fund
Ella Sachs Plotz foundation for the advancement of scientific investigations
Scott, Arthur Hoyt, foundation

FOUNDATIONS, Subaqueous

See also

Bridges—Foundations and piers
Caissons
Cofferdams
Concrete construction, Subaqueous
Dams—Foundations
Dredging

FOUNDING. See Aluminum founding; Brass founding; Bronze founding; Foundry practice; Iron founding

FOUNDRIES

Cast bomb shells in Canadian plant. P. Dwyer. il plan Foundry 69:50-3+ D '41; 70:64-6, 134+ Ja '42

Ford magnesium alloy foundry. E. F. Cone. il Metals & Alloys 15:396-402 Mr '42

Foundries gird to meet war demands. il Foundry 70:66-7, 145-50 F; 70-1, 149-52 Mr '42

Midwest aluminum and magnesium foundry is converted to war work; illustrations. Foundry 70:126-31 Ap '42

Planning the nonferrous foundry. N. K. B. Patch. il diag Foundry 69:64+ D '41; 70:67+ Ja; 70+ F; 74+ Mr; 137+ Ap '42

Western hemisphere foundry congress, Cleveland; plans. Foundry 70:72+ Ja '42

See also

Foundry management
Foundry practice
Iron works
Steel works

Cleanliness

Clean foundry moulds. H. A. Forsberg. il Safety Eng 83:9-10 My '42

Employees

Carries on apprentice training; Falk corp. J. C. Hubel. il Foundry 70:76+ Jl '42

Hamilton foundry wins award; receives Treasury department Minute Man blue flag; employes purchasing war bonds through payroll allotment plan. il Foundry 70:96+ Jl '42

More trained men needed by foundry industry; abstracts of A.F.A. convention papers. Foundry 70:86, 88+ Je '42

Stove foundry adopts upgrading plan; Cleveland cooperative stove co. P. Dwyer. Foundry 70:138-40 N '42

Training apprentices in the laboratory. H. R. McCoy. il Foundry 70:58-60, 157-9 F; 72-3, 153-7 Mr '42

Training methods for war production; abstract. W. F. Patterson. Foundry 70:139-40 My '42

Training molders for war requirements. P. R. Ramp. Foundry 70:190-2 Ap '42

War production offensive speeds up training for industrial army; Apprentice-training services, War man-power commission. W. F. Patterson. il Foundry 70:74-5, 160-2 N '42

Equipment and supplies

Better materials handling triples casting output; sand-molded magnesium-alloy castings. R. Trautschold. il Steel 111:64 Jl 27 '42

Casting guns centrifugally at Watertown. R. W. Case. il Foundry 70:62-3+ F '42

Converting an iron foundry to make steel castings. A. W. Gregg. il Foundry 70:58-9+ Je '42

Crane-conveyor team keeps castings on the move. C. B. Gordy. il Factory Management 100:102-4 S '42

Directing war production in the foundry industry; sections and branches within the WPB and the OPA; partial list. Foundry 70:75 Mr '42

Exhibition in conjunction with annual convention of American foundrymen's association; list of exhibitors. il Foundry 70:98-9, 177-8 My '42

Foundry supplies handled on pallets; Pontiac motor division of General motors corp. il Iron Age 149:47 Ja 22 '42

Green sand molds dried by infra red lamps. L. M. Duryee. il Foundry 70:134+ Ap '42

Guns cast centrifugally. C. T. Harris, jr. il Am Mach 86:822-3 Ag 6 '42

Handling castings through the cleaning room. J. M. Munroe. il Foundry 70:69+ Jl '42; Same. Steel 111:95+ Jl 13 '42

Handling materials in iron and steel foundry; Sullivan machinery co. F. A. Westbrook. il plan Steel 110:80+ Ja 19 '42

Make machine tool castings in highly modern foundry; Cincinnati milling machine co. P. Dwyer. il Foundry 70:66-8+ N; 76-9+ D '42

Malleable foundry keeps 'em rolling. P. Dwyer. il plan Foundry 70:84-6+ S '42

Mechanical handling in the foundry. D. C. Paterson. il diags plan Mech Handling 29:123-9 Jl '42

Mechanization of foundries. A. S. Beech. diags Inst Mech Eng J & Proc 147:Proc 53-60, pl 1-6 My '42; Same cond. Engineering 153:298-300, 317 Ap 10-17 '42; Same cond. Mech Handling 29:51-6 Mr '42; Same cond. Engineer 173:189-91 F 27 '42; Discussion. Inst Mech Eng J & Proc 147:Proc 61-8 My; 148:Proc 71-6 D '42; Engineering 153:195-6 Mr 6 '42

Molding large iron castings; Lynchburg foundry co. P. Dwyer. il Foundry 70:72-5+ Jl '42

Navy yard foundry develops casting technique. P. Dwyer. il Foundry 70:50-3+ Je '42

Nonferrous foundry produces variety of castings; Ampco metal inc. E. Bremer. il Foundry 70:70-2, 167-8 N '42

Planned materials handling improves foundry operation; Golden foundry co. S. F. Swain. il Steel 109:80+ D 15 '41

Plywood match plates. E. W. Horlebein. il Iron Age 149:46-7 Ja 8 '42

Reclamation in a foundry. E. F. Cone. il plan Metals & Alloys 16:256-7 Ag '42

Streamlining a pipe shop. A. K. Akers. il Pub Works 72:21-3 D '41

Turret lathe castings must be perfect; Sterling foundry company for Warner & Swasey co. P. Dwyer. il Foundry 70:58-61+ Ja '42

War applications of aluminum die castings; Mount Vernon die casting corp. H. Chase. il Iron Age 149:47-52 Mr 26 '42

See also

Cupola furnaces
Foundry ladles
Molds (for casting)

Heating and ventilation

Fume control in foundries a vital wartime ventilation job. B. G. Silberstein. il plan Heating-Piping 14:659-60 N '42

Ventilation of rotor casting department given special attention by motor maker. il Heating-Piping 14:430 Jl '42

Lighting

Incandescent lighting in a foundry; case study in approved conversion lighting. diag Elec W 118:109 Jl 11 '42

Protection

Can you answer the questions when the fireman calls? questionnaire used by firemen in checking on plant protection in the Chicago area. Foundry 70:118 S '42

Code of recommended practices for the protection of life, property and production in the foundry industry during the war. 72p bibliog(p71-2) pa $1.50 Am. foundrymen's assn, 222 W. Adams st, Chicago '42

FOUNDRIES—Protection—*Continued*

Protecting life, property and production; code of recommended practices developed by the Industrial hygiene codes committee of the American foundrymen's association. diags Foundry 70:110-11, 182-5 My; 60-1+ Je; 70-1+ Jl; 66-7+ Ag '42

Records

Collecting pattern shop cost data by separate jobs. A. E. Grover. Foundry 70:68-9+ Mr '42

Foundry orders should carry complete information. A. E. Grover. Foundry 70:56-7, 118+ Je '42

Safety measures

Foundry dust. il Safety Eng 82:41-2 D '41; 83:40 Ja; 40+ F '42

Mobilize against carelessness; report of annual meeting of National safety congress. H. H. Slawson. Foundry 69:120+ D '41

Safety first and all the time. W. Petry. Foundry 70:71+ O '42

Safety in die casting. B. H. Thomas. il Safety Eng 84:24-6 S '42

Waste

Salvage of metal from non-ferrous residues. L. Readman. il diag plans Mech Handling 29:36-8 Jl '42

Detroit

Among Detroit foundries. A. H. Allen. Published in monthly numbers of Foundry

Great Britain

Great Britain operates foundries under war conditions. V. Delport. il Foundry 70:82-3+ S '42

FOUNDRY (periodical)

50 years of service to an industry. Foundry 70:78-9 S '42

FOUNDRY accounting

Collecting pattern shop cost data by separate jobs. A. E. Grover. Foundry 70:68-9+ Mr '42

Production control in a foundry. G. J. Armstrong. N A C A Bul 23:1289-1311 Je 1 '42

FOUNDRY chemistry

See also
Alloys

FOUNDRY dust

Foundry dust. il Safety Eng 82:41-2 D '41; 83:40 Ja; 40+ F '42

See also
Foundries—Cleanliness

FOUNDRY equipment manufacturers' association

Annual meeting, Cleveland, Oct. 30-31. Steel 111:69-70 N 9 '42

FOUNDRY laboratories

New steel foundry laboratory speeds analyses; General electric co. il Foundry 70:108 S '42

Northwestern Tech has new foundry. E. F. Ross. il plan Foundry 70:106, 108 Ag '42

Training apprentices in the laboratory. H. R. McCoy. il Foundry 70:58-60, 157-9 F; 72-3, 153-7 Mr '42

FOUNDRY ladles

Casting pit refractories. J. H. Chesters. il diags Iron Age 148:43-9 N 20; 53-8 bibliog (p58) N 27 '41

Continuous pouring ladle handler developed by Whiting corp. il Iron Age 149:64 Ap 9 '42

Ladle cooling of liquid steel. T. Land. diag Iron & Steel Inst J 144:157-68 no 2 '41; Abstract. Metal Prog 41:191+ F '42; Discussion. Iron & Steel Inst J 144:169-82 no 2 '41

Ladle preheater uses gas. il Foundry 70:117 Jl '42

Makes sleeve brick in longer lengths. il Steel 111:62 S 28 '42

New assembly to prevent running stoppers. diags Steel 110:64+ Ja 26 '42

Stopper rod drying oven. H. T. Klein. il diags Steel 109:93-4 D 1 '41

Welded ladles for open-hearth service. F. L. Lindemuth. il Steel 109:74, 76-7 N 24 '41

FOUNDRY machinery

Blows molding sand into cores. P. Dwyer. il Foundry 70:62-4+ Mr '42

Crescent pattern-making machine. il Engineering 152:447-8 D 5 '41

Mechanization of foundries. A. S. Beech. diags Inst Mech Eng J & Proc 147:Proc 53-60, pl 1-6 My '42; Same cond. Engineering 153:298-300, 317 Ap 10-17 '42; Same cond. Mech Handling 29:51-6 Mr '42; Same cond. Engineer 173:189-91 F 27 '42; Discussion. Inst Mech Eng J & Proc 147:Proc 61-8 My; 148:Proc 71-6 D '42; Engineering 153: 195-6 Mr 6 '42

See also
Casting machines
Foundries—Equipment and supplies
Molding machines

FOUNDRY management

Code of recommended practices for the protection of life, property and production in the foundry industry during the war. 72p bibliog(p71-2) pa $1.50 Am. foundrymen's assn, 222 W. Adams st, Chicago '42

Collecting pattern shop cost data by separate jobs. A. E. Grover. Foundry 70:68-9+ Mr '42

Foundry orders should carry complete information. A. E. Grover. Foundry 70:56-7, 118+ Je '42

Great Britain operates foundries under war conditions. V. Delport. il Foundry 70:82-3+ S '42

Maintains quality through planning. T. West. il Foundry 70:108-9+ My '42

Motion study; it works in the core room, too; right- and left-hand charts. W. S. Hansen. diag Factory Management 100:91-2 S '42

Production control in a foundry. G. J. Armstrong. N A C A Bul 23:1289-1311 Je 1 '42

Protecting life, property and production; code of recommended practices developed by the Industrial hygiene codes committee of the American foundrymen's association. diags Foundry 70:110-11, 182-5 My; 60-1+ Je; 70-1+ Jl; 66-7+ Ag '42

Stove foundry adopts upgrading plan; Cleveland cooperative stove co. P. Dwyer. Foundry 70:138-40 N '42

Use of job evaluation in application of time study; abstract. E. L. Berry and E. A. Berg. Foundry 70:96+ Je '42

See also
Foundries—Employees

FOUNDRY practice

Acid steel melting practice. B. J. Aamodt. il Foundry 70:138-9+ Ap '42

Alloy-addition weight table. Metals & Alloys 15:834 My '42

American foundrymen's association 46th annual meeting and first Western hemisphere foundry congress, Cleveland, April 20-24. Foundry 70:90-7+ My; 62-5, 84+ Je '42

Applies atmospheric pressure to secure sound castings. H. F. Taylor and E. A. Rominski. il diags Foundry 70:74-7, 161-4 O '42

Atmospheric pressure and the steel casting, a new technique in gating and risering; abstract. H. F. Taylor and E. A. Rominski. Iron Age 149:57-60 Ap 30 '42

Birmingham stages tenth annual conference. Foundry 70:157+ Ap '42

Cast bomb shells in Canadian plant. P. Dwyer. il Foundry 70:64-6, 134+ Ja '42

Cast engine parts; Ford motor co., ltd. il Automobile Eng Extra no 31:379-82 N 6 '41

Cast mortar shells from electric furnace steel. J. B. Nealey. il diags Iron Age 150:47-52 Ag 13 '42

Casting alloy rolls. P. R. Ramp. il diags Iron Age 149:60-1 F 12 '42

Casting 500-lb. aerial bombs. diags Iron Age 149:59-61 Je 4 '42

Casting high speed steel; sand and centrifugal casting methods, using permanent molds, employed at Gorham tool co. W. F. Sherman. il plan Iron Age 150:40-4 S 24 '42

Casts steel anchors vertically. W. Bell, jr. il Foundry 70:68+ Jl '42

Converter's place in war production. A. W. Gregg. il Foundry 70:66-7+ Mr '42

FOUNDRY practice—*Continued*

Film-impact process for casting metals. J. M. Merle. il diag Steel 110:82, 84+ Je 22 '42

Ford magnesium alloy foundry. E. F. Cone. il Metals & Alloys 15:396-402 Mr '42

Foundry operations, 1941 and current trend. E. F. Cone. il Metals & Alloys 15:48-50 Ja '42

Foundry practice. C. E. Schubert. 142p $1.70 J. S. Swift co., New York '41

Foundry practice in aircraft engine manufacturing. H. G. Lamker. il Aero Digest 40: 221-2+ Mr '42

Foundry work. R. E. Wendt. 4th ed 261p $2 McGraw-Hill '42

Fueling for zinc slush and permanent mold casting; abstract. Metals & Alloys 15:138 Ja '42

Hot tears in ferrous castings; abstract. A. B. Bill. Metals & Alloys 16:300 Ag '42

Improved surface condition of cast projectiles. A. M. Portevin. diags Metal Prog 42:239-40 Ag '42

Increasing foundry production with existing equipment. D. J. Reese. il Foundry 70:106-7, 187-91 My '42

Internal chills used in small steel castings. C. E. Westover. il diags Foundry 69:60-1+ D '41

Keep them snagging! keeping water out of pneumatic tools used to clean steel castings. C. Blake. il Foundry 70:121+ S '42

Ladle cooling of liquid steel. T. Land. diag Iron & Steel Inst J 144:157-68; Discussion. 169-82 no 2 '41

Let's take a look at specifications. diags Foundry 70:132-3+ Ap '42

Light alloy castings in aircraft. Foundry 70: 70-1+ Ag '42

Magnesium foundry; photographed by H. B. Cornelius. Metal Prog 41:491-8 Ap '42

Manufacture of high-quality, low-cost steel; pouring practice. P. J. McKimm. bibliog il Steel 111:90, 92+ Jl 13 '42; Excerpts. Metals & Alloys 16:306 Ag '42

Measuring the fluidity of cast steel. H. F. Taylor and E. A. Rominski. il diags Iron Age 148:40-4 N 27 '41

Melting technique in the magnesium foundry; abstract. Metals & Alloys 15:474+ Mr '42

Metallurgist and the steel foundry. F. A. Melmoth. il Foundry 70:80-1+ S '42

Modern core practices and theories. H. W. Dietert. 532p bibliog(p497-508) $8 Am. foundrymen's assn, 222 W. Adams st, Chicago '42

Molten metal conditions affect casting quality. F. G. Sefing. bibliog il Foundry 70:78-9+ Jl '42; Excerpts. Metals & Alloys 16: 734+ O '42

Mould and core washes. W. Y. Buchanan. diags Engineering 152:176-7 Ag 29 '41; Discussion. Iron Age 148:60 N 27 '41

Navy carries on experimental work; with excerpts from papers by H. F. Taylor and E. A. Rominski. P. Dwyer. il Foundry 70:68-9+ Ag '42

Navy makes variety of nonferrous castings. P. Dwyer. il Foundry 70:66-7+ Jl '42

Navy yard foundry develops casting technique. P. Dwyer. il Foundry 70:50-3+ Je '42

North west foundrymen compare notes; foundry conference, Wisconsin chapter of the American foundrymen's association and the College of engineering of the University of Wisconsin. J. F. Oesterle. Metal Prog 41: 527+ Ap '42

Plaster patterns for the foundry. H. Plucknett. il diags Iron Age 149:42-5 My 28 '42

Precision castings; modification of the lost-wax process. W. A. Phair. il Iron Age 150: 39-41 Jl 9 '42

Production of uniform steel for a light castings foundry. C. H. Kain and L. W. Sanders. Engineer 174:38-40 Jl 10 '42; Same cond. Engineering 154:95-6, 117-18 Jl 31-Ag 7 '42; Same cond. Iron Age 150:101-2+ O 1 '42

Purdue holds regional foundry conference, Oct. 17-18. Foundry 69:87-8, 90+ D '41

Quality control in the manufacture of permanent magnets cuts rejects 90 per cent. J. H. Goss. il diags Steel 111:92-4+ O 26 '42

Questions and answers. Published in monthly numbers of Foundry

Radiography as a foundry tool. P. McCaffery. il diags Iron Age 149:45-8 My 14 '42

Recent developments in cast metals. C. H. Lorig. il Foundry 70:68-9+ Ja '42

Silver can be readily cast. Iron Age 150:63 Jl 9 '42

Steel castings by the triplex method. A. W. Gregg. diags Iron Age 149:61-3 My 7 '42

War demands speed pouring of machine tool castings. il Foundry 70:58-62 Ag '42

Wasteful foundry practice. P. R. Ramp. diags Iron Age 149:34-6 Ja 15 '42

What is briquetting current practice? W. A. Phair. il Iron Age 150:31-3 O 29 '42

Wisconsin holds fifth regional conference. Foundry 70:160, 162, 164+ Ap '42

See also

Aluminum founding
Annealing
Brass founding
Bronze founding
Cast iron
Casting, Centrifugal
Castings
Cores
Die casting
Foundries
Foundry management
Iron founding
Iron metallurgy
Molding machines
Molds (for casting)
Pattern making
Pickling (metals)
Sand, Foundry
Steel castings
Steel ingots
Type and type founding

Antioch process

Precision aluminum castings; Antioch plaster mold process. R. R. Kay. il Iron Age 149: 50-4 Ap 9 '42

Study and teaching

Gifts permit Case school to extend foundry facilities. Foundry 70:94 Ag '42

NYA trains foundry workers. il Foundry 70: 77+ Jl '42

Short term training in the foundry. 119p pa $2.25 Nat. founders assn, 120 S. La Salle st, Chicago '41

Training molders for war requirements. P. R. Ramp. Foundry 70:190-2 Ap '42

FOUNDRY research

Investigations at Mellon institute 1941-42; beneficial results accrue in gray cast-iron production. il Chem & Eng N 20:445-6 Ap 10 '42

FOUNDRY sand. See Sand, Foundry

FOUNDRYMEN

Men of industry. Published in monthly numbers of Foundry

See also

Foundries—Employees

FOUNTAIN pens

Testing writing inks with rubber fountain pen sacs. R. S. Casey and R. Macdonald. il Ind & Eng Chem Anal ed 14:720-1 S 15 '42

FOURCAULT process

Drawn glass; modern production methods in a new Canadian industry. il Can Chem & Process Ind 26:517-19 S '42; Same. Chem Age (Lond) 47:445-6 N 21 '42

FOURDRINIER machines. See Paper making machinery

FOURIER'S series

Analysis of systems with known transmission-frequency characteristics by Fourier integrals. W. L. Sullivan. bibliog Elec Eng 61:248-56 My '42

Fourier series and orthogonal polynomials. D. Jackson. 234p bibliog(p229-30) $2 for sale by Open court pub. co, La Salle, Ill. '41

More symmetrical Fourier analysis applied to transmission problems. R. V. L. Hartley. bibliog Inst Radio Eng Proc 30:144-50 Mr '42

Some improvements in practical Fourier analysis and their application to X-ray scattering from liquids. G. C. Danielson and C. Lanczos. Franklin Inst J 223:365-80, 435-52 Ap-My '42

FOX, Herbert, 1880-1942

Sketch. J. H. Austin. Science 95:425 Ap 24 '42

FRACTIONATING columns. See Distillation apparatus

FRACTURES

Fractures. G. Perkins. 384p $6.50 Oxford '41

Fractures of the patella; methods of treatment. J. E. M. Thomson and C. F. Ferciot. il diags Ind Med 11:468-70 O '42

Manual of the treatment of fractures. J. A. Caldwell. 150p $3.50 C. C. Thomas, Springfield, Ill. '41

Simple treatment for fractured metatarsals. U. E. Gebhard. Ind Med 11:157 Ap '42

Text-book of fractures and dislocations covering their pathology, diagnosis and treatment. K. Speed. 4th ed rev 1106p $12.50 Lea & Febiger, 600 S. Washington sq, Philadelphia '42

Treatment of recent intracapsular fractures of the neck of the femur. J. W. Davis. Ind Med 11:422-5 S '42

Wounds and fractures; a clinical guide to civil and military practice. H. W. Orr. 227p bibliog(p212-14) $5 C. C. Thomas, Springfield, Ill. '41

FRAMED structures

Beams of variable moment of inertia; the computation of fixed end moments, sidesway moments, stiffnesses and carry-over factors. J. B. Wilbur. diags Boston Soc C E J 29:264-85 O '42

Concrete frames designed to save steel. J. J. Polivka. diags Eng N 128:981-4 Je 18 '42

Earthquake stresses in frame structures. R. E. Glover. bibliog il Am Concrete Inst J 13:453-70 Ap '42; Discussion. 13:sup 472^1-472^{12} N '42

Effect of aerial warfare on steel-framed buildings. V. G. Iden. il Steel 111:66-8+ S 21 '42

Moment balance; a self-checking analysis of rigidly jointed frames. R. J. Cornish. diags Am Soc C E Proc 68:683-90 My '42; Discussion. 68:775-80, 1067-70, 1239-43, 1449-51, 1649-54, 1826-30 My-Je, S-D '42

Plastic theory; its application to design. J. F. Baker and J. W. Roderick. diags Welding J 20:sup558-60 N '41

Rectangular plate loaded along two adjacent edges by couples in its own plane. W. R. Osgood. J Research Nat Bur Stand 28: 159-63 F '42

Solving a frame of multiple redundancy by method of least work. W. H. M. Laughlin. diags Civil Eng 12:394-5 Jl '42; Discussion. 12:573 O '42

Stresses in a rectangular knee of a rigid frame. W. R. Osgood. diags J Research Nat Bur Stand 27:443-8 N '41

See also

Bridge design

FRAMING (building)

Blimp hangars set new timber arch record. diags Eng N 129:576-7 O 22 '42

Concrete and laminated wood framing; machine shop, built by the Defense plant corp. il diags Eng N 129:566-8 O 22 '42

How to cut structural steel requirements by 40 per cent; welded rigid-frame construction and use of wood purlins. F. W. Mettler. il Steel 111:77-8 S 28 '42

Timber trusses with steel diagonals; aircraft plant in eastern Canada. il diag Eng N 129:589 O 22 '42

See also

Roofs

FRANCE

See also

Civil service—France
Finance—France
Food supply—France
Gasoline industry—France
Income tax—France
Labor laws and legislation—France
Steel industry and trade—France
World war, 1939- —France

Colonies

Myth of empire. Economist 142:707-8 My 23 '42

See also

Indo-China, French

Economic conditions

France in 1941. Economist 142:sup14-15 Mr 14 '42

News by countries. For Comm W 6:13-14 Ja 10 '42

Raw material shortages threaten French industry; problems of transportation, agriculture, food supply. For Comm W 5:6-7 N 22 '41

What of France? economic survey for 1941. For Comm W 8:8-9+ Jl 11 '42

Economic policy

Economic reorganisation in France. Int Labour R 45:665-8 Je '42

French labor charter. Monthly Labor R 54: 397-403 F '42

Road to rationing; results of price and wage control as shown by French experience. R. Picard. Trusts & Estates 74:351-5 Ap '42

Foreign relations

Germany

Deadline; the behind-the-scenes story of the last decade in France. P. Lazareff. 369p $3 Random house, New York '42

United States

Hull says U.S. policy toward Vichy directed toward liberation of France. Comm & Fin Chr 156:1711 N 12 '42

Free French movement

Miracle on the Congo; report from the Free French front. B. L. Burman. 153p $1.75 Day '42

German occupation

France under the iron heel; wounds mainly economic. Steel 110:21-2 Ja 26 '42

Industries and resources

Plight of French industry. Economist 142: 256-7, 289-90 F 21-28 '42

Politics and government

L'expérience Laval. Economist 143:34-6 Jl 11 '42

Government of Vichy. P. Tissier. 347p 15s G. G. Harrap & co, London '42

Road to Vichy, 1918-1938. Y. R. Simon. 207p $2.25 Sheed & Ward, 63 5th av, New York '42

Vichy's gleichschaltung. Economist 143:350-2 S 19 '42

Vichy's internal policy. Economist 141:624-5, 652-3 N 22-29 '41

FRANCIS, Pearce J. 1890-1942

Sketch. East Underw 43:28 F 20 '42

FRANCOLITE

Carbonate-apatites; francolite from the Richtersveld, South Africa. J. E. de Villiers. bibliog Am J Sci 240:443-7 Je '42

FRANKFORT, Kentucky

Frankfort-Tri-City disagree on price. Elec W News ed 118:1202 O 10 '42

FRANKFURTERS. See Sausages

FRANKLIN, Benjamin, 1706-1790

Benjamin Franklin, adventures in agriculture. C. R. Woodward. Franklin Inst J 234:207-28 S '42

Benjamin Franklin as a scientist. R. A. Millikan. Franklin Inst J 232:407-23 N '41

Benjamin Franklin, patron saint of heating. Heating-Piping 14:579 S '42

Benjamin Franklin, philosophical revolutionist. B. Knollenberg. Franklin Inst J 233: 517-23 Je '42

Benjamin Franklin: student of life. R. E. Spiller. bibliog Franklin Inst J 233:309-29 Ap '42

Benjamin Franklin, the apostle of unity. G. W. Pepper. Franklin Inst J 234:187-90 Ag '42

Benjamin Franklin; the printer at work. L. C. Wroth. Franklin Inst J 234:105-32 Ag '42

Benjamin Franklin's interests included insurance development. Spectator (Property ed) 8:8+ Jl 23 '42

Dr Franklin as the English saw him. C. Read. Franklin Inst J 233:105-23 F '42

FRANKLIN, Benjamin—*Continued*
Dr Franklin; friend of the Indians. J. P. Boyd. Franklin Inst J 234:311-30 O '42
Franklin's political journalism in England. V. W. Crane. Franklin Inst J 233:205-24 Mr '42
Honoring B. Franklin, printer. por Inland Ptr 109:20 Ag '42
Looking westward. G. Chinard. Franklin Inst J 234:1-16 Jl '42
Meet Doctor Franklin. C. Van Doren. Franklin Inst J 232:509-18 D '41
Molding the Constitution. G. W. Pepper. Franklin Inst J 233:413-34 My '42
Self-portraiture: the autobiography. M. Farrand. Franklin Inst J 233:1-16 Ja '42

FRANKLIN county coal corporation
1st mortgage 7s, due 1949. Comm & Fin Chr 156:444 Ag 6 '42

FRANKLIN institute, Philadelphia
Medal day. Science 95:402-3 Ap 17 '42
Medal day meeting. Franklin Inst J 234:167-90 Ag '42
Photography and the Franklin institute. W. N. Jennings. il Franklin Inst J 234:31-8 Jl '42

FRARY, Francis Cowles, 1884-
Portrait. Sci Am 167:152 O '42
Sketch. por Metal Prog 42:384-6 S '42

FRASCH, Herman, 1852-1914
Herman Frasch, chemical engineer. Chem & Eng N 20:730 Je 10 '42

FRATERNAL societies. See Benefit societies

FRAUD
Dishonesty among the white collar class. J. F. Lew. East Underw 43:33 My 8 '42
Experiences in auditing; discovery of fraud. J Account 72:530 D '41
Guarding the nation's profits; something about fraud prevention. H. Bailey. Credit & Fin Management 43:22-3 D '41
Holds all-risk policy does not cover fraud. Weekly Underw 147:1073 N 7 '42
Procter & Gamble indicted for fraud. Oil Paint & Drug Rep 141:3+ Je 15 '42
War booms fraud. P. L. Selby. Inv Banking 12:39-40 Je '42

See also
Competition, Unfair
Counterfeits and counterfeiting
Embezzlement
Forgery
Insurance—Fraudulent claims
Insurance, Life—Fraudulent promotion
Insurance, Life—Fraudulent statements
Promoters, Fraudulent
Swindlers and swindling

FRAYNE, John George, 1894-
Recipient of the 1940 Society of motion picture engineers journal award. R. E. Farnham. por Soc Motion Picture Eng J 37:551-3 D '41

FREDERICK, Donald Sherwood, 1910-
John Wesley Hyatt award presented. pors Mod Plastics 20:71-2 N '42

FREDERICKSBURG, Virginia

Water supply

Effect of break-point chlorination on filter runs and algae growths. A. E. Wilson, jr. Water Works & Sewerage 89:129-30 Mr '42

FREE energy
Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42
Free energies and equilibria of isomerization of the butanes, pentanes, hexanes, and heptanes. F. D. Rossini, E. J. R. Prosen and K. S. Pitzer. bibliog J Research Nat Bur Stand 27:529-41 D '41
Sources of thermodynamic data; methods of application to the industry. J. G. Aston. bibliog il Ind & Eng Chem 34:514-21 My '42

FREE enterprise. See Capitalism

FREE French movement. See France—Free French movement

FREE harbors
American frascati at New York foreign trade zone. A. H. Carroll. il For Comm W 7:8-9 My 16 '42
Foreign-trade zones' advantages. T. E. Lyons. For Comm W 7:43 Je 6 '42
Foreign-trade zones essential in post-war reconstruction. For Comm W 9:32-4 O 3 '42
Gulf to get foreign trade zone. For Comm W 7:42 My 23 '42
Like the pea in the shell game; New York foreign-trade zone. C. R. Bryan. il For Comm W 6:3-5+ F 21 '42
New York foreign-trade zone. For Comm W 7:32 Ap 25 '42
New York foreign trade zone moves. For Comm W 6:36 Mr 28 '42
What's needed in the Gulf. W. Chatfield-Taylor. For Comm W 6:3+ Ap 4 '42

FREE ports. See Free harbors

FREE radicals. See Radicals (chemistry)

FREE speech
Free speech, free radio, and free press must be preserved, even in war. H. Hoover. Comm & Fin Chr 155:1945+ My 21 '42

See also
Freedom of the press

FREE trade and protection
Charter of United nations no pledge of free trade. Rayon 23:513 S '42

See also
Tariff

Free trade

Bars to freer trade. Economist 142:746 My 30 '42

FREE trial. See Sales policies—Free trial

FREEDOM of the press
Court upholds right of press to hold public officials to strict accounting. Comm & Fin Chr 155:1263 Mr 26 '42
Daily Mirror; controversy regarding threatened suppression. Economist 142:419 Mr 28 '42
Daily Mirror debate. Economist 142:459 Ap 4 '42
Danger to freedom of press seen in action against Associated press. C. W. Ackerman. Comm & Fin Chr 156:1639 N 5 '42
Legal developments affecting the press. F. S. Siebert. Ann Am Acad 219:93-9 Ja '42
When the city sues the press. Comm & Fin Chr 154:1248 N 27 '41

FREEPORT, Texas

See also
Housing—Freeport, Texas

FREEPORT sulphur company
Southern firm to produce war-vital nickel. il Manuf Rec 111:26-7 Ap '42
Thumbnail stock appraisal. Mag of Wall St 71:136 N 14 '42
What the chemical companies are doing. Barron's 22:21 S 21 '42

FREEZING
Aid for canners; Department of agriculture develops quick-freeze process. Business Week p24 O 10 '42
Cohesionless soil samples by freezing. F. E. Fahlquist. il diags Eng N 129:229-31 Ag 13 '42
Dew-point recorder utilizing photo-electric relay safeguards gas line against freezing. J. A. Setter. diag Pet Eng 13:134 F '42
Economic aspect of prefreezing bulk foods before storage. W. J. Finnegan. il Refrig Eng 44:225-9 O '42
Effect of the rate of freezing and temperature of storage on the quality of frozen poultry. C. W. DuBois, D. K. Tressler and F. Fenton. il Refrig Eng 44:93-9 bibliog(p99); Discussion. M. E. Pennington. 99+ Ag '42
Farm-fresh foods in quick-freeze packs. il Mod Packaging 16:81-3+ O '42
Fractionation of waxy and ordinary cornstarch. C. G. Caldwell and R. M. Hixon. bibliog Am Chem Soc J 63:2876-80 N '41
Freezing myriapods for photographing. M. W. Johnson and J. H. Starling. Science 96:324 O 2 '42

FREEZING—*Continued*

Freezing of eggs. M. E. Pennington. il plan Refrig Eng 42:1-6 sec 2 D '41

Freezings and compressions to 50,000 kg/cm^2. P. W. Bridgman. J Chem Phys 9:794-7 N '41

Polyphase freezing process developed; low-cost unit built. L. H. Bartlett and W. R. Woolrich. il diag Food Ind 13:60-2+ D '41; 14:62-4 Ja '42

Quick and flash freezing of foods. W. R. Woolrich and L. H. Bartlett. bibliog(50 titles) il diag Mech Eng 64:647-53 S '42

Quick freezing offers wartime economies. F. App. Food Ind 14:48-50+ Ag '42

Role of low temperature in the preservation of plasma. M. M. Strumia. diags Refrig Eng 44:154-6+ S '42

Same quarry, different rocks; resistance of Chicago area dolomites to freezing and thawing. H. B. Willman. il Rock Prod 44:49-52 D '41

See also

Bricks—Freezing
Concrete—Freezing
Food, Frozen
Ice
Meat, Frozen
Refrigeration and refrigerating machinery

FREEZING of assets. See World war, 1939—Freezing of assets

FREEZING points

Cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1192-9 O '42

Determination of the activity coefficients of the methylamine hydrochlorides from freezing point data. J. H. Jones, F. J. Spuhler and W. A. Felsing. bibliog diag Am Chem Soc J 64:965-8 Ap '42

Freezing point of phenothiazine. L. E. Smith and O. A. Nelson. diag Am Chem Soc J 64:461-2 F '42

Freezing points of binary mixtures of diphenylamine and other organic compounds. O. A. Nelson and L. E. Smith. Am Chem Soc J 64:1057-9 My '42

Method of minimizing supercooling and its application in the determination of freezing points from dielectric constant measurements. T. M. Shaw. diag R Sci Instr 13:2-5 Ja '42

Some properties of solutions of long-chain compounds. M. L. Huggins. bibliog J Phys Chem 46:151-8 Ja '42

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

FREIGHT, Perishable

See also

Refrigerator cars

FREIGHT airplanes. See Airplanes, Freight

FREIGHT and freightage

See also

Air express service
Airplanes, Freight
Forwarding companies
Freight cars
Freight handling
Freight ships
Motor trucks in freight service
Packing for shipment
Railroads—Freight
Railroads—Rates
Railway express agency
River traffic
Shipment of goods
Shipping
Ships—Cargo
Transportation

FREIGHT car service

Are there freight cars enough? il Ry Age 112:1000-3 My 23 '42

Canners use rails. Business Week p51-2 F 28 '42

Car man's part in winning the war. R. K. Betts. Ry Age 112:578-80 Mr 21 '42

Freight car loading. Published in weekly numbers of Railway age

Freight car supply and traffic in 1929, 1941 and 1942. Ry Age 112:811-13 Ap 25 '42

Freight traffic lags; with tables giving statistics of revenue freight loaded, 1940 and 1941 and first quarter, 1942; and freight car supply and utilization, 1939-1942. Survey of Cur Business 22:5-7 Ap '42

Great American car pool. J. M. Symes. Ry Age 112:494-6 Mr 7 '42

How increased efficiency provides freight cars. Ry Age 112:1105-6 Je 6 '42

How many freight cars for 1942? C. B. Peck. Ry Age 112:44-5+ Ja 3 '42

How the railroads did it; squeezing a lot more out of everything they own. il Fortune 26:120-2+ N '42

How to get maximum utilization of freight cars. Ry Age 112:1113-15+ Je 6 '42

Keep down detentions of cars in bad order; Car department officers' assn. committee report. Ry Mech Eng 116:467-8 N '42

Mechanical engineers in the transportation emergency; viewpoint of equipment builder. W. C. Dickerman. Mech Eng 64:35-7 Ja '42; Excerpts. Ry Age 111:1083-4 D 27 '41; Ry Mech Eng 116:3-4 Ja '42

Must get the most from cars and locomotives. W. C. Kendall. Ry Age 113:525-6 O 3 '42

National association of shippers advisory boards annual meeting, Chicago, Oct. 16. Ry Age 113:640-2 O 24 '42

ODT keeps train sheet on all vital railroad routes; system of port control. Ry Age 112:1243 Je 27 '42

Railroads are enlisted for the duration. il Ry Age 112:990-9 My 23 '42

Reminders for better railroading; suggestions for expeditious handling of freight cars. C. J. Nelson. Ry Age 112:160-2 Ja 10 '42

Rôle of transportation in national defense. F. M. Patterson. Pub Util 28:742-8 D 4 '41

Shippers fight slackerism in car-saving campaign; Mid-west shippers advisory board. Ry Age 112:293+ Ja 31 '42

Shippers' point of view; abstract. F. A. Schleifer. Ry Age 112:1084-5 My 30 '42

Slower but surer; Chicago-to-Coast freight schedule lengthened. Business Week p36 D 6 '41

Southern stores using fewer cars. il Ry Age 111:1078-81 D 27 '41

Vigilantes of '42; shippers police each other to help railroads keep freight cars moving. Business Week p17-18 Ap 25 '42

Ways to greater equipment economy. A. W. Vogtle. Ry Age 113:483 S 26 '42

See also

Forwarding companies

Car load

Answers to questions on ODT order no. 18; maximum loading of cars. Ry Age 113:740-1 N 7 '42

B. & O. revamps l.c.l. routing at New York city. il map Ry Age 112:1241-3 Je 27 '42

Better freight car use cuts loadings; with chart showing weekly freight carloadings of l.c.l. merchandise, 1941-May 1942. Survey of Cur Business 22:2 Je '42

Combination caboose aids l. c. l. movement. il Ry Age 113:233 Ag 8 '42

Inducing vs. compelling l.c.l. efficiency. Ry Age 112:405 F 21 '42

L.c.l. traffic; abstract. W. Bockstahler. Ry Age 112:1083-4 My 30 '42

Maximum loading required by ODT. Ry Age 113:313, 316-17 Ag 22 '42

Maximum railroad car loading order revised. Oil Paint & Drug Rep 142:3+ O 19 '42

ODT carloading order modified. Ry Age 113:618+ O 17 '42

Rail cars must load 6 tons minimum. Oil Paint & Drug Rep 141:5+ Mr 30 '42

Railroad loading regulations issued. Oil Paint & Drug Rep 142:7+ N 9 '42

FREIGHT cars

Allocation of final 18,000 freight cars authorized by WPB to complete 1942 construction. Ry Age 113:467 S 19 '42

Are there freight cars enough? il Ry Age 112:1000-3 My 23 '42

FREIGHT cars—*Continued*

Expediting Southern Pacific car work. il Ry Mech Eng 116:390-4 S '42

Germany's new types of open freight car. For Comm W 6:38 Mr 28 '42

Oil in boxcars? il Fortune 26:22 S '42

120-ton crocodile wagon conveying scrap; Great western railway. il Engineering 153: 296 Ap 10 '42

Plywood sheathing on Canadian Pacific cars. il Ry Age 113:22 Jl 4 '42; Same. Ry Mech Eng 116:341 Ag '42

Prices fixed on lumber for cars. Ry Age 111: 924 N 29 '41

Railroad standards flexible, not fixed. C. H. Buford. Ry Age 111:1084-6 D 27 '41; Same. Ry Mech Eng 116:4-5 Ja '42

Railroads on spot; limit on new freight cars and locomotives. Business Week p17-18 Ap 18 '42

Report on handling cars; freight equipment for company materials. J. T. Kelly. il Ry Age 113:228-9 Ag 8 '42

Washington sees rubber box car; new Mareng cell may be used to haul oil. Ry Age 113: 313 Ag 22 '42; Same. Ry Mech Eng 116:400-1 S '42

Wolmanized lumber in prefabricated box cars for South America. il Ry Age 113:603 O 17 '42

See also

Air brakes
Car wheels
Coal cars
Freight car service
Loading and unloading—Cars
Refrigerator cars
Tank cars

Design

Association of American railroads proposal limits number of car designs during emergency. Ry Age 111:789-90 N 15 '41; Same cond. Ry Mech Eng 115:512+ D '41

Milwaukee builds large welded box cars. il diag Ry Mech Eng 115:508-11 D '41; Same cond. Ry Age 111:910-12 N 29 '41

Equipment

See also

Draft gears

Interchange

A.A.R. arbitration report for 1942. Ry Mech Eng 116:433-4 O '42

Interchange and billing for car repairs; Car department officers' assn. committee report. Ry Mech Eng 116:468-9, 495 N '42

Simplifying interline payments; typing and clerical time are saved in system of forms developed on Northern Pacific. H. S. Latham. Ry Age 113:99-100 Jl 18 '42

Manufacture

Low-center flat cars built at Sacramento shops. il Ry Mech Eng 115:540-1 D '41

New fabrication methods for refrigerator cars. M. E. Bridston. il Refrig Eng 43:143-4 Mr '42

Reading 55-ton hopper cars. il diags Ry Mech Eng 116:116-21 Mr '42

Thousands of coal cars to keep munitions plants running; American car and foundry co. C. O. Herb. il Mach 48:134-41 Ap '42

Numbering

Systematic freight car numbering? R. L. Sproul. Ry Age 113:337-9 Ag 29 '42

Pooling

Great American car pool. J. M. Symes. Ry Age 112:494-6 Mr 7 '42

Refrigerator car pool inaugurated. Ry Age 113:378 S 5 '42

Repair

Car man's part in winning the war. R. K. Betts. Ry Age 112:578-80 Mr 21 '42

Efficient handling of freight-car repairs. P. A. Helm. il Ry Mech Eng 116:136-8 Ap '42

Great Northern car-shop devices. P. P. Barthelemy. il Ry Mech Eng 116:306-11 Jl '42

Keep down detentions of cars in bad order; Car department officers' assn. committee report. Ry Mech Eng 116:467-8 N '42

Two straightening devices for steel car sides and end gates. diags Ry Mech Eng 116:27 Ja '42

Statistics

Car program as it was on Aug. 1. Ry Age 113:287-8 Ag 15 '42

Cumulated deliveries, annual rate of production, and unfilled orders of domestic freight cars, class I railways; chart. Survey of Cur Business 21:2 N '41

How many freight cars for 1942? C. B. Peck. Ry Age 112:44-5+ Ja 3 '42

Impressive freight car-buying program witnessed in 1941. A. J. McGinnis. Ry Age 112:103-12 Ja 3 '42

No material improvement in car-building program. Ry Age 111:787-8 N 15 '41

Role of rail equipment vital; tables giving freight car deliveries compared with orders and planned production, and age of cars in U.S. S. Altschul. Barron's 21:8 N 24 '41

FREIGHT cars, Steel

D.L. & W. 50-ton box cars. il Ry Age 112: 952-3 My 16 '42

Milwaukee builds large welded box cars. il diag Ry Mech Eng 115:508-11 D '41; Same cond. Ry Age 111:910-12 N 29 '41

More coal-hauling capacity for Chesapeake & Ohio. il Ry Age 112:1116-17 Je 6 '42

Reading 55-ton hopper cars. il diags Ry Mech Eng 116:116-21 Mr '42

FREIGHT forwarders. See Forwarding companies

FREIGHT handling

B. & O. revamps l.c.l. routing at New York city. il map Ry Age 112:1241-3 Je 27 '42

Bulkheads will reduce damage in heavy loads. A. L. Green. Ry Age 112:1112 Je 6 '42

Maximum railroad car loading order revised; special requirements for handling of chemicals and allied products in straight carload shipments. Oil Paint & Drug Rep 142: 3+ O 19 '42

Perfect shipping month. il Ry Age 112:584-5+ Mr 21 '42

Report on loss and damage to shipments of company material. J. H. James. Ry Age 113:229 Ag 8 '42

Why St Louis is no bottleneck; Terminal railroad association is keeping heavy traffic moving. il map Ry Age 113:655-7+ O 24 '42

See also

Coal handling
Containers (for shipping)
Cranes, derricks, etc.
Electric trucks, Industrial
Freight ships
Hoisting machinery
Loading and unloading—Cars
Loading and unloading—Ships
Merchant marine
Motor trucks in freight service
Ore handling
Railroads—Freight
Train ferries

FREIGHT rates

Contract carrier service ceiling set. Oil Paint & Drug Rep 141:5 Je 29 '42

Upholds decision in Virginia port rate case. Comm & Fin Chr 156:27 Jl 2 '42

See also

Motor trucks in freight service—Rates
Railroads—Rates
Shipping—Rates

FREIGHT ships

America's Liberty ships built to deliver cargoes for war. il diags Product Eng 13: 488-92 S '42

British wartime cargo ships. il plans Marine Eng 47:124-7 Mr '42

Diesels for C1A cargo ships. il diags Marine Eng 47:140-3+ Ag '42

Distinctive ships, 1941. il diags plans Marine Eng 46:103-50+ N '41

Empire Liberty; British prototype of the Liberty ship. il diags plans Marine Eng 47:168-71 Ap '42

Engineers wanted, for fast geared-turbine cargo ships. il Power 86:557-9 Ag '42

Epic of the Liberty shipyards. il Marine Eng 47:172-83 Ap '42

Japanese shipping and shipbuilding. il Marine Eng 47:98-107 My '42

FREIGHT ships—*Continued*

Leon Fraser, Great Lakes ore carrier. il Marine Eng 47:124-7 S '42

Liberty ship. il diags plans Marine Eng 47:146-65 Ap '42

Liberty ships rigidly tested. il Marine Eng 47:166-7 Ap '42

Machine welding speeds Liberty ships. il Eng N 129:426-9 S 24 '42

Machinery of mass-produced cargo vessels. Engineering 154:176 Ag 28 '42

Merchant ships for victory. H. L. Vickery. il Mach 49:126-31 N '42

New British ships from America and Canada. il Engineer 173:146-7 F 13 '42

Ore carriers launched at Lakes yards. il Marine Eng 47:124-6 My '42

Pre-assembly speeds building of Ugly Duckling cargo vessels. Steel 110:37-8 F 23 '42

Production time for Liberty ships. Marine Eng 47:174-6 O '42

Recent changes in shipbuilding design; installation of refrigerating machinery and insulated cargo spaces in smaller tramp freighter. A. T. Nickson. Refrig Eng 44:310 N '42

Recent motor cargo ship. plans Engineer 172:340 N 14 '41

Result of the Sea Otter trials. E. Johnson. il Marine Eng 47:119-22 My '42

Richmond yard completes thirty ships for Great Britain. Marine Eng 47:148-9 S '42

Sails unfurled: Tango to carry cargo from Columbia river to Capetown. il For Comm W 7:3+ My 9 '42

Sea Otter II welded from wide strip. il Iron Age 148:60-1 D 11 '41; Same. Steel 110:64 Ja 19 '42

Ships off the line; science and ingenuity help produce cargo vessels. A. D. Rathbone, 4th. il Sci Am 167:67-9 Ag '42

Straight-line production of Liberty cargo ships. J. A. Corlett. il Steel 110:74-5 Ap 6 '42; Same, with additional il. Marine Eng 47:184-8 Ap '42; Same. Welding J 21:271-2 Ap '42

Who will man the Liberty ships? description of power equipment; increasing demand for skilled, experienced engineers. il diags Power 86:460-3 Jl '42

Wood, wind, and sail, the coffee fleet; with table giving ports of call, time and cargo of the sailing fleet. W. C. Taylor. il map For Comm W 7:3-5, 41-2 My 23 '42

Wooden schooners to meet ship shortage. Barron's 22:4 Jl 13 '42

See also

Barges
Merchant marine
Stowage
Tank ships

Reconstruction

Removing sea valves and patching hulls of converted ore boats. R. Wagner. diags Marine Eng 47:144 Jl '42

FREIGHT terminals. See Terminals

FREIGHTWAYS, incorporated

Freightways sued; antitrust action filed. Business Week p81 F 14 '42

FRENCH Canadians in the United States

French Canadians in the United States. T V. Kalijarvi. bibliog Ann Am Acad 223:132-7 S '42

FRENCH Equatorial Africa

See also

Money—French Equatorial Africa

FRENCH GUIANA

Black Martinique, red Guiana. N. Smith. 312p $3.50 Bobbs '42

FRENCH in the West Indies

French in the West Indies. W. A. Roberts. 335p bibliog(p319-20) $3 Bobbs '42

FRENCH language

Glossaries

Glossary of certain child-welfare terms in Spanish, Portuguese, French and English. A. K. Smith. U S Children's Bur Pub 271:1-115; pa 15c Supt. of doc. '42

FRENCH West Africa

Dakar and its back-country. il For Comm W 8:11+ S 12 '42

FREON. See Chlorofluoromethanes

FREON 12. See Dichlorodifluoromethane

FREQUENCY changers

Frequency changer primary-secondary voltage. Elec W 118:950 S 19 '42

Novel starter for frequency changer. H. R. Reese. Elec W 117:1364+ Ap 18 '42

Operation of frequency converters and mixers for superheterodyne reception. E. W. Herold. bibliog(54 titles) diags Inst Radio Eng Proc 30:84-103 F '42

Out-of-step indicator visualizes asynchronism; cathode-ray tubes on 60,000-kva. frequency changer. T. M. Blakeslee. il diag Elec W 117:1177-8 Ap 4 '42

Systems inter-tied for energy exchange; Southern California Edison and San Diego Gas & Electric systems interconnected through 50,000-kw. frequency changer. il Elec West 88:35-6 Mr '42

FREQUENCY control

Frequency control of load swings. J. E. McCormack and R. J. Lombard. diag Elec Eng 61:Trans 623-4 S '42

Supplementary control of prime-mover speed governors. S. B. Crary and J. B. McClure. bibliog Elec Eng 61:Trans 209-14 Ap '42

System frequency and its control. H. A. Dryar. il Instruments 15:290-1 Ag '42

FREQUENCY distribution (statistics)

Children's speech; distribution of words. G. K. Zipf. Science 96:334-5 O 9 '42

Probabilities in logarithmic skewed distributions. G. R. Davies and R. H. Smith. Am Statis Assn J 36:493-9 D '41

Reliability of station-year rainfall-frequency determinations. K. Clarke-Hafstad. bibliog maps Am Soc C E Proc 66:1603-22 N '40; Discussion. 67:129-32, 255-9, 474-82, 665-6, 887-90, 1113-18; 68:145-51 Ja-Je '41, Ja '42

Skewness of combined distributions. T. E. Raiford. Am Statis Assn J 37:391-3 S '42

Standard error of percentiles. W. D. Evans. Am Statis Assn J 37:367-76 S '42

Use of grouped measurements. H. L. Jones. Am Statis Assn J 36:525-9 D '41

Use of inversions as a test of random order. A. C. Rosander. Am Statis Assn J 37:352-8 S '42

Zipf's law of urban concentration. J. B. Carroll. Science 94:609 D 26 '41

FREQUENCY meters

Frequency sensitivity by resonant fork. H. L. Clark. diag Elec W 118:956-7 S 19 '42

Maintenance and servicing of electrical instruments. J. Spencer. il diags Instruments 15:128+, 176+, 199-200 Ap-Je '42

Supersensitive frequency meter. W. H. Janssen and H. L. Clark. il diag Gen Elec R 45:443-5 Ag '42; Same cond. Electrician 129:471-2 O 30 '42

FREQUENCY modulation. See Radio frequency modulation

FREQUENCY modulation receivers. See Radio receiving apparatus—Frequency modulation receivers

FREQUENCY modulation transmitters. See Radio transmitters—Frequency modulation transmitters

FRIANT dam. See Dams, Concrete

FRICK, Ezra, 1857-1942

Sketch. Refrig Eng 43:173 Mr '42

FRICTION

Amontons' law, traces of frictional contact, and experiments on adhesion. R. Schnurmann. bibliog il J Ap Phys 13:235-45 Ap '42

Comparative study of friction-heads in screwed and welded elbows. F. E. Giesecke and J. S. Hopper. il diags Heating-Piping 14:56-60 Ja '42

FRICTION—*Continued*

Compressed air pipe friction; chart to determine pressure drop at a given temperature; data sheet. H. Gartmann. Power 86: 281 Ap '42

Contact of colliding surfaces. F. P. Bowden and D. Tabor. Engineer 172:380-2 N 28 '41

Determining the condition of mains; how to watch your C line for friction losses. D. R. Taylor. Water Works & Sewerage 89: sup67-9 Je '42

Effect of friction in air inlet and exhaust systems of internal-combustion engines. O. Adams. diags Pet Eng 13:33-4 Je; 92+ Ag '42

Engineering fundamentals. diags Diesel Power 20:758 S '42

Friction heads due to water flow in copper, brass and other smooth pipes. F. E. Giesecke. Heating-Piping 14:680-5 N '42

Frictional phenomena. A. Gemant. diags J Ap Phys 12:530-7, 626-33, 718-34, 827-36; 13: 22-9, 90-6, 210-21, 290-9, 355-60 bibliog(p633, 724, 836, 29, 96, 221, 299, 360) Jl-Ag, O, D '41-F, Ap-Je '42

Frictional properties of rubber. F. L. Roth, R. L. Driscoll and W. L. Holt. bibliog pl diags J Research Nat Bur Stand 28:439-62 Ap '42

Graphical solution of fluid-friction problems. E. S. Dennison. Engineering 153:179-80 F 27 '42

How friction and forced draft affect stratification in kilns and dryers. E. Ledoux. diags Chem & Met Eng 49:92-5 Ja '42

Importance of considering side-wall friction in bed-load investigations. J. W. Johnson. Civil Eng 12:329-31 Je '42

Measurement of small friction torques. diag Engineering 153:17 Ja 2 '42

Nature of static friction. W. Claypoole and D. B. Cook. bibliog il diag Franklin Inst J 233:453-63 My '42

Pipe and tubing friction chart, smooth and fairly smooth pipes; reference data. Heat & Ven 39:46a-46b O '42

Theory of brakes, an example of a theoretical study of wear. I. Opatowski. Franklin Inst J 234:239-49 S '42

Transfer processes in annuli. J. H. Wiegand and E. M. Baker. bibliog Am Inst Chem Eng Trans 38:569-88 Je '42; Discussion. 38: 588-92, 719-22 Je, Ag '42

Water: flow, friction, measurement and power. diags Water Works & Sewerage 89:sup 19-28 Je '42

See also

Bearings

Lubrication and lubricants

FRICTION, Internal

Comparison of X-ray line breadth and internal friction for alpha-brass as affected by cold-working and annealing. F. Niemann and S. T. Stephenson. bibliog Phys R 62: 330-3 O 1 '42

Vibration properties of rubberlike materials; dependence on temperature. R. B. Stambaugh. bibliog il diag Ind & Eng Chem 34: 1358-65 N '42

See also

Viscosity

FRIEDEL-CRAFTS reaction

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides. G. M. Dyson and T. Harrington. Chem Soc J p150-3 F '42

Comparison of metallic chlorides as catalysts for the Friedel-Crafts ketone synthesis. O. C. Dermer and others. bibliog Am Chem Soc J 63:2881-3; 64:464-5 N '41, F '42

Effect of structure on reactivity: nuclear substitution of benzene derivatives. H. F. McDuffie, jr. and G. Dougherty. bibliog Am Chem Soc J 64:297-9 F '42

Friedel-Crafts acylations of some sterically hindered alkylbenzenes. G. F. Hennion and S. F. deC. McLeese. Am Chem Soc J 64: 2421-2 O '42

Investigations in the 1-methylphenanthrene series; the synthesis of 3-acetyl-1-methylphenanthrene. T. Hasselstrom and D. Todd. bibliog Am Chem Soc J 64:1225-6 My '42

Liquid sulfur dioxide as solvent medium for chemical reactions. J. Ross and others. bibliog Ind & Eng Chem 34:924-6 Ag '42

Study of the action of an aluminum-aluminum chloride catalyst in Friedel-Crafts reactions; benzoylation. O. Grummitt and E. N. Case. bibliog Am Chem Soc J 64:878-80 Ap '42

Use of amalgamated aluminum as a catalyst in the Friedel and Crafts reaction. L. I. Diuguid. Am Chem Soc J 63:3527-9 D '41

FRITS

Plant man reports his experience with zircon enamel frits. G. B. Fulton. il Cer Ind 37: 78+ D '41

See also

Enamel and enameling

FRITZ, John, medal

John Fritz medal for 1942 awarded to E. L. DeGolyer. Elec Eng 61:60 Ja '42; Min & Met 23:176-7 Mr '42

Willis Rodney Whitney awarded the John Fritz medal. Elec Eng 61:574, 582 N '42

FROLICH, Per K. 1899-

Elected president of American chemical society. Science 94:603 D 26 '41

FROST

Apparatus for the production of artificial frost injury in the branches of living trees. R. A. Studhalter and W. S. Glock. diag Science 96:165 Ag 14 '42

FROZEN coffee. See Coffee, Frozen

FROZEN eggs. See Eggs, Frozen

FROZEN food. See Food, Frozen

FROZEN fruit. See Fruit, Frozen

FROZEN peas. See Peas, Frozen

FROZEN vegetables. See Vegetables, Frozen

FRUEHAUF trailer company

Four problems Fruehauf Trailer licked with a training film. W. D. Wise. il Sales Management 51:48, 50 O 1 '42

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 N 24 '41

Stocks favored by special circumstances. E. A. Barnes. Mag of Wall St 70:193 My 30 '42

FRUIT

Product varietal studies from a plant breeder's point of view. B. D. Drain. il Refrig Eng 43:221-2+ Ap '42

Tropical fruits for southern Florida and Cuba and their uses. D. Sturrock. 131p $1.25 Arnold arboretum of Harvard univ, Jamaica Plain, Mass. '40

See also

Apples

Avocados

Canning and preserving

Cherries

Citrus fruit

Dates

Oranges

Persimmons

Diseases and pests

Substitutes for copper and zinc in fungicidal sprays. J. W. Roberts. il Ind & Eng Chem 34:497-8 Ap '42

Preservation

Fruit wrap; moisture-proof film preserves fruit. il Sci Am 166:81 F '42

Influence of the steel-base composition on the rate of formation of hydrogen-swells in canned-fruit tinplate containers. T. P. Hoar, T. N. Morris and W. B. Adam. bibliog diags Iron & Steel Inst J 140:55-92, pl 9 no 2 '39; 144:133-55 no 2 '41; Discussion. 140:93-4 no 2 '39

See also

Candied fruit

Canning and preserving

Fruit, Frozen

Storage

See also

Apples—Storage

FRUIT, Candied. See Candied fruit

FRUIT, Dried

Dehydration methods used in California. E. M. Mrak. il diag Food Ind 14:50-2 Ag '42

FRUIT, Dried—*Continued*
Dried fruit ceiling to be up 15% at packer level. Comm & Fin Chr 156:717 Ag 27 '42
Fruit confection; candy bars. Business Week p54 S 12 '42
Making dried fruit bars for the army K ration. Food Ind 14:117 O '42
Sugar rations rouse consumer interest in dried fruits. Sales Management 50:32 Je 15 '42

See also
Apricots, Dried

FRUIT, Frozen
Aid for canners; Department of agriculture develops quick-freeze process. Business Week p24 O 10 '42
Product varietal studies from a plant breeder's point of view. B. D. Drain. il Refrig Eng 43:221-2+ Ap '42

FRUIT culture
Deciduous orchards. W. H. Chandler. 438p $4.50 Lea & Febiger, Philadelphia '42

FRUIT jar rings
Advertises a substitute for what it is; Bull Dog jar rubber. il Ptr Ink 199:36 Je 26 '42

FRUIT juice extractors
Plastics competition award to Dazey churn & mfg. co., inc. il Mod Plastics 19:82-3 N '41

FRUIT juices
Making concentrates from pasteurized and sulphited fruit, grape and berry juices; abstract. A. Widmer and F. Braun. Food Ind 14:105-6 S '42
New—nectar made from fresh prunes. C. W. Eddy and M. K. Veldhuis. flow sheet Food Ind 14:46-7 Mr '42
Processing and storage of fruit juices; abstract. C. S. Pederson, H. G. Beattie and E. A. Beaven. Food Ind 14:105 Ag '42

See also
Citrus fruit juices
Orange juice

Analysis

Determination of ascorbic acid. A. W. E. Downer. Chem & Ind 60:868 D 6 '41

Effect of the presence of SO_2 in citrus juices on the titration with 2-6 dichloro-phenolindophenol. A. H. Bennett. Chem & Ind 60:851 N 29 '41

Further notes on the determination of ascorbic acid and sulphur dioxide in fruit juices. H. F. W. Kirkpatrick. Soc Chem Ind J 60:298-9 N '41

FRUIT pickers
Pickers as usual; Michigan tart cherry crop harvested. Business Week p88-90 Jl 25 '42

FRUIT purées
Using fruit purées to get new flavors in ribbon ice cream. D. K. Tressler. il Food Ind 14:49-51+ S '42

FRUIT trade
See also
Cherries
Citrus fruit
Dates
Fruit juices
United fruit company

Advertising

Food advertiser's job now same as in peace; continuous advertising of California Calavos. il Ptr Ink 200:32, 37 Ag 28 '42

Argentina

Fresh-fruit exports from Argentina, 1940 and 1941. For Comm W 6:14 Mr 7 '42

Brazil

Imports and exports of fresh fruits, 1940 and 1941. For Comm W 6:17 Mr 14 '42

British Honduras

News by commodities. For Comm W 5:20-1 N 29 '41

California

Canners fret; shortage of tins, closures, labor, and sugar. Business Week p60-1+ My 16 '42

Cuba

Shipments of Cuban fresh fruit to the United States, 10-month period ended Oct. 31, 1941. For Comm W 5:21-2 N 29 '41

Hungary

Hungary's fruit production, 1941. For Comm W 8:26-7 Jl 11 '42

Latin America

Pan American trade, with special reference to fruits and vegetables. J. W. Lloyd. 345p bibliog(p336-8) $2.25 The interstate, Danville, Ill. '42

Palestine

1940-41 shipments of citrus fruit by destination. For Comm W 6:19 Ja 17 '42

West Indies, British

News by commodities. For Comm W 5:21 N 29 '41

FRUMKIN, Aleksandr Naumovich, 1895-
Year in an American university. Science 95:222-3 F 27 '42

FRYING
Relative cleanliness and costs of gas and electric deep fat frying. F. Crompton. il Am Gas J 155:40-2 D '41

FUCHSIN
New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

FUCITOL
Structure of diacetone-L-fucitol (2,3,4,5-di-isopropylidine-L-fucitol). A. T. Ness, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:982-5 Ap '42

FUCOSTEROL
Structure of fucosterol. H. B. MacPhillamy. Am Chem Soc J 64:1732-3 Jl '42

FUCOXANTHIN
Occurrence and interconversion of various fucoxanthins. H. H. Strain and W. M. Manning. bibliog Am Chem Soc J 64:1235 My '42

FUEL
Aids for the plumbing and heating contractor to use in his drive for fuel conservation. il Dom Eng 160:32-3 Jl '42
A.S.M.E.-A.I.M.E. joint fuels meeting, St Louis, Sept. 30-Oct. 1. Mech Eng 64:816-17 N '42
Argentina's fuel situation. For Comm W 8:18-19 S 26 '42
Britain guards and rations her utility services. J. N. Waite. Pub Util 30:201-7 Ag 13 '42
Buying and checking fuel. R. E. Hieronymus. il Heating-Piping 14:11-14, 96-9 Ja-F '42
Coal follows through; fuel situation. E. G. Bailey. Mech Eng 64:771-2+ N '42; Same. Min & Met 23:547-50 N '42; Abstract. Concrete (mill sec) 50:282-3 D '42
Coal, petroleum, natural gas, and electricity in the United States, 1929-40. J. R. Bradley. U S Bur Mines Information Circ 7189: 1-26 '41; Excerpts. Nat Pet N 34:R50 F 18 '42
Cold homes? fuel crisis. Business Week p20, 22 Ag 8 '42
Combustion efficiencies as related to performance of domestic heating plants. A. P. Kratz, S. Konzo and D. W. Thomson. diags Ill U Eng Exp Sta Circ 44:1-30 '42 (pa 40c)
Fuel and the future; abstracts. D. Milne-Watson. Gas J (Lond) 236:165 O 29 '41; Electrician 127:251 O 31 '41
Fuel cost chart. W. F. Schaphorst. Chem Ind 51:381 S '42
Fuel effects on controlled atmosphere furnaces. F. A. Locke. il Iron Age 149:37-40 Mr 19 '42
Fuel engineers' conference, Easton, Pa. Oct. 30-Nov. 1. Power Pl Eng 45:75-6 D '41
Fuelless Portland. Business Week p34-5 Je 6 '42
Fundamental problems of energy. H. Chatley. Engineering 152:305, 335-6 O 17-24 '41

FUEL—*Continued*

Future sources of power. C. C. Furnas. Science 94:425-8 N 7 '41; Same. Engineering 153:4 Ja 2 '42; Same. Sci Am 167:164-6 O '42

Housing census; fuels used for cooking. Gas Age 90:21+ N 5 '42

Informal fuel committee of the New England gas companies. Am Gas J 157:37-9 N '42

Is a fuel ministry wanted? abstracts. E. W. Smith. Elec R (Lond) 130:468-9 Ap 10 '42; Electrician 128:332 Ap 10 '42

Manchester district association of gas engineers presidential address on co-ordinated national fuel policy. J. E. L. Cooper. Gas J (Lond) 238:133-4+ Ap 22 '42

Meeting wartime fuel problems. O. Craig. diags Mech Eng 64:697-702 O '42

Relative fuel equivalents for individual heating purposes and relative ton mile haulage requirements; report of sub-committee of the Informal fuel committee of the New England gas companies. Am Gas J 157:41-4 N '42

Secretary Ickes designated by President, National defense solid fuels coordinator. Comm & Fin Chr 154:1227 N 27 '41

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. bibliog(70 references) il diags Chem & Eng N 20:649-59 My 25 '42; Abstract. Chem Ind 50:638-9 My '42

See also

Alcohol as fuel
Automobile engines—Fuel
Automotive fuel
Benzol (commercial benzene)
Blast furnace gas
Boilers—Firing
Butane
Coal
Coal, Pulverized
Coke
Coke-oven gas
Combustion
Diesel engines—Fuel
Furnaces
Gas, Natural
Gas and oil engines—Fuel
Gas as fuel
Gasoline
Heating
Kerosene
Lignite
Liquid fuel
Locomotives—Fuel
Motor bus engines—Fuel
Motor truck engines—Fuel
Oil fuel
Petroleum refineries—Fuel
Power plants—Fuel
Smoke prevention

Bibliography

Bibliography of nomographs on fuels. R. Myllynen and D. S. Davis, comps. News Ed 19:1492+ D 25 '41

Survey of literature on the manufacture and properties of iron and steel, and kindred subjects. Iron & Steel Inst J 143:1A-241A no 1 '41; 144:1A-238A no 2 '41

Rationing

Britain rations gas service. J. Jamieson. Pub Util 30:445 S 24 '42

Contractor's answer to problem of fuel rationing; figuring fuel requirements in medium and large buildings. H. T. Kucera. Dom Eng 160:62-8 S '42

Dean heads OPA Fuel rationing division. Oil Paint & Drug Rep 142:5 S 14 '42

Fuel rationing in abeyance. Economist 142:805 Je 6 '42

Fuel rationing; report; abstracts. W. Beveridge. Electrician 128:412-13 My 1 '42; Elec R (Lond) 130:566-7 My 1 '42; Gas J (Lond) 238:206, 209 My 6 '42; Discussion. Elec R (Lond) 130:588, 621-2 My 8-15 '42

Proposed fuel rationing scheme. Gas J (Lond) 238:412+ Je 10 '42

Statistics

Bureau of census issues fuel data on single houses. Heat & Ven 39:70 O '42

Storage

See Fuel storage

FUEL, Colloidal

Oil-coal mixture practical, Bureau reports after study. Nat Pet N 34:8 O 7 '42

Use of mixtures of oil and coal in boiler furnaces. W. C. Schroeder. bibliog Mech Eng 64:793-8+ N '42; Abstract. Nat Pet N 34 pt 2:R363-4+ O 28 '42; Summary. Power 86:838a-838b N '42

FUEL, Oil. See Oil fuel

FUEL economizers

Combustion corrections gain large capacity; elimination of erosion and clogging through addition of tubes and changes in economizer. il diag Elec W 118:925 S 19 '42

Economizer tube life doubled by welding. il diags Elec W 117:1837 My 30 '42

See also

Air preheaters

FUEL economy

All divisions unite action in fuel conservation campaign. il Dom Eng 160:28-9+ Ag '42

A.S.H.V.E. sets Aug. 17-22 as War on fuel waste week. il Dom Eng 160:30-1+ Ag '42

Coal economy; discussion. Elec R (Lond) 130:79-80 Ja 16 '42

Coal economy in steel industry. Economist 143:216 Ag 15 '42

Conservation of gas through consumer education. Am Gas J 157:39-40 N '42

Conservation viewpoints of government, industry. il Dom Eng 160:32-3+ Ag '42

Contribution of the gas industry in the domestic field to national fuel economy; gas, electricity and solid fuels compared. H. Hartley. Gas J (Lond) 238:460-2, 465-6 Je 17 '42; Discussion. 239:69, 93+, 206+ Jl 8-15, Ag 5 '42

Design and operation of gas-fired industrial equipment in relation to national fuel economy. E. A. C. Chamberlain. Gas J (Lond) 238:515-19 Je 24 '42; Discussion. 239:67 Jl 8 '42

Fuel conservation, always good business, becomes wartime must. E. A. Tyler. il Heating-Piping 14:532-4 S '42

Fuel economy. G. Lloyd George. Elec R (Lond) 131:176 Ag 7 '42

Fuel economy campaign. Engineer 173:53 Ja 16 '42

Fuel economy; effect on electricity supply; abstracts. V. W. Dale. Electrician 129:360 O 2 '42; Elec R (Lond) 131:428 O 2 '42

Fuel economy in boiler operation; improved automatic control. D. D. Howat. il diags Chem Age (Lond) 47:77-81, 99-102, 123-6, 151-6 Jl 25-Ag 15 '42

Fuel waste estimated at 25 per cent. E. O. Eastwood. Power Pl Eng 46:59 S '42

Great waste. K. Aldinger. Mech Eng 64:807-8 N '42

Has fuel economy come to stay? F. D. Parker. Electrician 129:357-9 O 2 '42

Home insulation with mineral products; conservation of fuel for war. O. Bowles. U S Bur Mines Information Circ 7220:1-11 '42

How much fuel can be saved by lowering inside temperatures. C. Strock. Heat & Ven 38:43-5 N '41

How to save fuel. J. E. Haines. Heating-Piping 14:616 O '42

How to save fuel for heating; maintenance services data sheet. Factory Management 100:138, 140 O '42

Industry cooperates in conservation drive. il Dom Eng 160:60-1+ O '42

Is fuel economy a legitimate war-time objective? T. Olson Ry Age 113:96-9 Jl 18 '42

Kiln design for alternate fuels. V. J. Azbe. diag Rock Prod 45:59 O '42

London's coal mine; battle for fuel exhibition opened in Regent street. Electrician 129:438 O 23 '42

⅓ of the fuel consumed is normally wasted; check list offers twenty-eight suggestions on heating plant operation and maintenance. il diag Dom Eng 160:34-7 Ag '42

Organizing a fuel economy exhibition; discussion by the Eastern section of the Southern association. Gas J (Lond) 240:103+ O 21 '42

Practical ways to meet wartime fuel problems; 6th annual fuels conference. diag Power 86:800-1+ N '42

Program of gas fuel conservation. W. J. Shore. il Am Gas J 157:15-16 S '42

FUEL economy—*Continued*

Relation of coal sizes to fuel economy; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:489-91 N '42

Research products sponsors fuel saving. Sheet Metal Worker 33:59 S '42

Saving fuel. Management R 31:386-8 N '42

Saving fuel in heating; reference section. J. F. Collins, jr. Heat & Ven 39:36-50 Je '42

Shut those doors; their effect upon fuel economy in factories. Electrician 129:264 S 11 '42

Six point program for saving fuel. J. W. Pauling. Heating-Piping 14:596 O '42

Start war on fuel waste now; meeting sponsored by the War service committee of the American society of heating and ventilating engineers. Heating-Piping 14:498, 526 Ag '42

Storm sash: low cost fuel saving. C. P. Balsam. Sheet Metal Worker 33:36, 38 S '42

Suggestions on saving fuel. Sheet Metal Worker 33:34, 36 O '42

Ten ways to save fuel. Sheet Metal Worker 33:52+ S '42

Today's job; fuel conservation. il diags Dom Eng 160:36-47+ S '42

War on fuel waste. B. M. Woods. map Heating-Piping 14:699-701 N '42

War on fuel waste week; forum and luncheon meeting, New York, August 17. Heating-Piping 14:558-65 S '42

Washington takes the lead on conversion; U.S. senators make special statements. il Dom Eng 160:40-1+ O '42

What constitutes waste of light? action taken against certain hotels and theatres under the Waste of fuel order. Light & Lighting 35:112+ S '42

See also

Air preheaters
Boilers—Gas firing
Boilers—Oil firing
Coal distillation
Combustion
Feed water heaters
Fuel economizers
Furnaces
Locomotives—Fuel
Temperature—Regulation
Waste heat

Bibliography

Selected listing of articles on fuel conservation published in Heating, piping & air conditioning. Heating-Piping 14:552 S '42

FUEL pumps. See Pumps, Fuel

FUEL research

See also

Coal research
Gas research

FUEL storage

Fuel storage and heating value data; reference data. Heat & Ven 39:58a-58b Ag '42

Practical data for solving wartime fuel storage problems. Heat & Ven 39:21-5 Mr '42

FUGACITY

Applications of thermodynamics to multicomponent systems. B. H. Sage and R. H. Olds. bibliog il diag Ind & Eng Chem 34:526-32 My '42

Contribution to statistical mechanics. J. E Mayer. J Chem Phys 10:629-43 O '42

Phase equilibria in hydrocarbon systems; volumetric and phase behavior of methane-*n*-pentane system. B. H. Sage and others. bibliog Ind & Eng Chem 34:1108-17 S '42

Surface fugacity and the heat of free expansion on a surface for a single-component insoluble film. W. B. Innes and H. H. Rowley. J Phys Chem 46:548-54 My '42

FUGITIVE dyes. See Dyes and dyeing—Fugitive dyes

FULCHRONOGRAPH

Lightning; fulchronograph studies; Westinghouse electric & manufacturing co. Sci Am 166:287-8 Je '42

FULD brothers, Baltimore

Fuld brothers make it for the leaders. P. B. Slawter, jr. il Chem Ind 51:236-41 Ag '42

FULGURITES

Fulgurites made artificially, using hot lightning. P. L. Bellaschi. il Sci Am 166:290+ Je '42

FULLER, Walter Deane, 1882-

Portrait. Business Week p14 D 6 '41

FULLER'S earth

Adjustment of the pH of sugar solutions with Attapulgus clay. W. A. La Lande, jr. and others. Ind & Eng Chem 34:988-91 Ag '42

Factors influencing the performance of rotary dryers. C. F. Prutton and others. bibliog il diags Am Inst Chem Eng Trans 38:123-40, 841-62 F, Ag '42; Discussion. 38:140-1, 863-4 F, Ag '42

Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42

Spent fuller's earth found effective in control of incendiary bombs. G. C. Jones. il Nat Pet N 34:R163-6+ My 27 '42

FUMARIC acid

Tracer studies with radioactive carbon and hydrogen; the synthesis and oxidation of fumaric acid. M. B. Allen and S. Ruben. bibliog Am Chem Soc J 64:948-50 Ap '42

FUMARONITRILE

Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

FUMES

Effects of daily exposures to arc welding fumes and gases upon normal and tuberculous animals. L. U. Gardner and D. S. McCrum. bibliog il J Ind Hygiene 24:173-82 S '42

Finds no danger to workmen in arc-welding fumes. Concrete (mill sec) 50:194 Je '42

Fume control in foundries a vital wartime ventilation job. B. G. Silberstein. il plan Heating-Piping 14:659-60 N '42

Fume trap for Diesels and other internal combustion engines. D. C. Calderwood. il Water Works & Sewerage 89:247 Je '42

Industrial exposure to tellurium; atmospheric studies and clinical evaluation. H. H. Steinberg and others. bibliog J Ind Hygiene 24:183-92 S '42

Transite for chemical fumes; Searle chemical co. il Sheet Metal Worker 33:82-3 Ja '42

Ventilation for control of fumes in wartime welding work. W. C. L. Hemeon. diags Heating-Piping 14:341-4+ Je '42

Welding fumes from arc welding. G. C. Harrold. bibliog Welding J 21:367-70 Je '42

See also

Flue gas
Smoke

FUMES, Acid

Disposal of acid fumes in wet assaying. E. J. Poth and G. A. Elliott. diags Ind & Eng Chem Anal ed 13:910 D 15 '41

FUMIGACIN

Production of two antibacterial substances, fumigacin and clavacin. S. A. Waksman, E. S. Horning and E. L. Spencer. bibliog Science 96:202-3 Ag 28 '42

FUMIGANTS

Determination of fumigants; composition of heavy coal-tar naphtha. N. F. Sarsfield. diag Soc Chem Ind J 61:1-6 Ja '42

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

See also

Methyl bromide

FUMIGATIN

Anti-bacterial substances from moulds; spinulosin and fumigatin, metabolic products of penicillium spinulosum Thom and aspergillus fumigatus Fresenius. A. E. Oxford and H. Raistrick. Chem & Ind 61:128-9 Mr 14 '42

FUMIGATIN—*Continued*

Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42

Derivatives of 1 : 2 : 3 : 4-tetrahydroxybenzene; the synthesis of fumigatin. W. Baker and H. Raistrick. Chem Soc J p670-2 O '41

FUMIGATION

Propose sulfur candle law. Soap & San Chem 18:109 N '42

What's known today about dehydrating vegetables; directions for storing, fumigating and packaging. W. V. Cruess and E. M. Mrak. il Food Ind 14:43-5+ My '42

See also

Disinfection and disinfectants
Insecticides

FUNCTIONS

On the function $H(m,a,x)=\exp(-ix)F(m+1-ia, 2m+2, 2ix)$. A. N. Lowan and W. Horenstein. Phys R 61:94 Ja 1 '42

FUNCTIONS, Exponential

Fitting the exponential function and the Gompertz function by the method of least squares. P. M. Stoner. Am Statis Assn J 36:515-18 D '41

Poisson's exponential binomial limit; Table I, individual terms; Table II, cumulated terms. E. C. Molina. 45p, 47p pa $2.75 Van Nostrand '42

FUNCTIONS, Orthogonal

Fourier series and orthogonal polynomials. D. Jackson. 234p bibliog(p229-30) $2 for sale by Open court pub. co, La Salle, Ill. '41

FUNCTIONS, Trigonometrical. See Trigonometrical functions

FUNCTIONS of a complex variable

Integration in the complex plane. K. O. Friedrichs. Elec Eng 61:139-43 Mr '42

FUNERAL chapels. See Mortuary chapels

FUNGI

Determining the deterioration of cellulose caused by fungi; improvements in methods. G. A. Greathouse, D. E. Klemme and H. D. Barker. bibliog il Ind & Eng Chem Anal ed 14:614-20 Ag 15 '42

Occurrence and significance of marine cellulose-destroying fungi. E. S. Barghoorn, jr. Science 96:358-9 O 16 '42

Occurrence of vitamins in fungi. C. C. Carpenter and E. W. Friedlander. Science 95:625 Je 19 '42

Outline of the fungi. G. W. Martin. 64p bibliog(p42-5) pa 35c Univ. of Iowa press, Iowa City '41

Photograph the fungi and learn to know them. L. W. Brownell. il Am Phot 36:38-41 N '42

Pimelic acid, biotin and certain fungi. W. J. Robbins and R. Ma. Science 96:406-7 O 30 '42

Preservation of timber. R. L. Brooks. bibliog Inst Pet J 28:63-77; Discussion. 78-81 Ap '42

Pyridoxine as a growth factor for graphium. P. K. Burkholder and I. McVeigh. Science 95:127-8 Ja 30 '42

Some aspects of microbiology in the treatment of sewage. T. G. Tomlinson. il Soc Chem Ind J 61:53-8 Ap '42; Abstract and discussion. Chem & Ind 61:153-4 Mr 28 '42

Sporulation stock medium for yeasts and other fungi. E. M. Mrak, H. J. Phaff and H. C. Douglas. Science 96:432 N 6 '42

See also

Bacteriology
Chaetomium globosum
Mildew
Molds (botany)

FUNGI, Pathogenic

Inhibitory effects of sulfonamides on cultures of actinomyces hominis. W. C. Cutting and L. P. Gebhardt. Science 94:568-9 D 12 '41

See also

Coccidioides

FUNGICIDES

Athlete's foot; a method for testing water soluble and water miscible fungicides used in the prevention of its spread. E. G. Klarmann, V. A. Shternov and S. M. Costigan. Soap & San Chem 17:129, 131+ D '41

Chemistry of insecticides and fungicides. D. E. H. Frear. 300p $4 Van Nostrand '42

Derivatives of dithiocarbamic acid as pesticides. W. H. Tisdale and A. L. Flenner. bibliog Ind & Eng Chem 34:501-3 Ap '42

Fungicidal value of the salicylates. E. E. Clayton. Science 96:366 O 16 '42

Growth stimulation of peas by tetrachloro-para-benzoquinone, a fungicidal seed protectant. G. L. McNew. Science 96:118-19 Jl 31 '42

Substitutes for copper and zinc in fungicidal sprays. J. W. Roberts. il Ind & Eng Chem 34:497-8 Ap '42

What you can use; preservatives for general industrial use against fungi. Oil Paint & Drug Rep 140:36 D 8; 40 D 15 '41

FUR

Fur won't fly; cleanliness problem in factory preparing fur for manufacture of felt; Jonas and Naumburg corporation. H. Armand. il Safety Eng 84:12-13 O '42

FUR insurance. See Insurance, Fur

FUR stores

Remodeled fur shop, New York city; views and plan. Arch Rec 91:47 F '42

FUR trade

High-priced pelts; karakul, as Persian lamb. il Business Week p20-1 Je 13 '42

Canada

Canada's sales, 1942. For Comm W 8:24 Jl 25 '42

News by commodities. For Comm W 5:25 N 22 '41

FURAN

1,4-Addition of methylmagnesium iodide to an α,β-unsaturated ketone system involving the double bond of a β-aroylfuran nucleus, and ring cleavage of the resulting vinyl allyl ether system. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3178-80 N '41

Mechanism of oxidative fission of the furan nucleus; furans with steric hindrance by one α-aryl group. R. E. Lutz and W. P. Boyer. Am Chem Soc J 63:3189-92 N '41

FURCRAEA

Fibers and saponin from the species of furcraea. C. D. Mell. Textile Col 64:271-2 Je '42

FURFURAL

Chemistry of the aloins; formation of formaldehyde and furfural. J. H. Gardner and J. A. Campbell. Am Chem Soc J 64:1378-9 Je '42

Determination of palladium with beta-furfuraldoxime. J. R. Hayes and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14:491-3 Je 15 '42

Furfural allocated for synthetic rubber. Oil Paint & Drug Rep 142:4 S 7 '42

Furfural and dichlorethyl ether conserved to assure ample supply at butadiene plants. Oil & Gas J 41:61 S 17 '42

Furfural sources exempt from GMPR. Oil Paint & Drug Rep 142:5+ O 5 '42

Oat-hull roads; furfural tried as binder in test highways. Business Week p70 Jl 11 '42

Reactions of furan compounds; constitution of the coloured condensation product from furfural, aniline, and aniline hydrochloride. G. Williams and C. L. Wilson. Chem Soc J p506-7 Ag '42

Tests of furfural as an anti-stripping agent; prevents stripping of asphalt from hydrophilic aggregates. A. S. Janssen. il Roads & Sts 85:41-8 S '42

Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42

FURFURAN. See Furan

FURFURYL alcohol

Nature of furfuryl alcohol. A. P. Dunlop and F. N. Peters, jr. bibliog Ind & Eng Chem 34:814-17 Jl '42

FURFURYL alcohol—*Continued*
Optical rotatory dispersion of (-)tetrahydrofurfuryl alcohol. R. S. Airs and others. Chem Soc J p531-2 Ag '42
See also
Tetrahydrofurfuryl alcohol

FURFURYL formate
Furfuryl formate. W. R. Edwards, jr. and L. H. Reeves. bibliog Am Chem Soc J 64: 1583-4 Jl '42

FURNACE industry and trade
Clean sweep for victory; furnace cleaning and repair campaign. C. P. Balsam. Sheet Metal Worker 33:46, 48 Ap '42
Furnace cleaning in war time. Sheet Metal Worker 33:34 Mr '42
Selling furnaces in current market. S. W. Hetherington. Sheet Metal Worker 33:48 S '42

Advertising

Dealers helped by national advertising. Sheet Metal Worker 33:29 Ag '42

Statistics

Furnace business up 35.5%; tabulation. Heat & Ven 39:56 Mr '42

FURNACES
Economical operation of gas-fired industrial equipment. Gas J (Lond) 236:282+ N 19 '41
Industrial and commercial gas equipment; outlook for the duration. K. Emmerling. il Am Gas Assn Mo 24:280-2 Jl-Ag '42
Industrial furnaces. W. Trinks. 2d ed v2 351p $5 Wiley '42
New type gas fired continuous conveyor brazing furnace. W. J. Shore. il Am Gas J 156:34-5 Ap '42
Radiant gas burners; use and development in industrial furnace design. F. O. Hess. il Am Gas Assn Mo 24:180-1+ My '42
Rating and care of domestic sawdust burners. E. C. Willey. (Bul. ser. no. 15) 27p bibliog(p23) Oregon state college, Engineering exp. station, Corvallis '41
See also
Blast furnaces
Cement kilns
Coke ovens
Cupola furnaces
Electric furnaces
Fire brick
Fuel
Glass furnaces
Glass manufacture
Glass tanks
Heating
Kilns
Lime kilns
Oil burners
Open hearth furnaces
Refractory materials
Refuse incinerators

Atmosphere control

See also
Furnaces, Heat treating—Atmosphere control

Control

Electronic pyrometer control. F. B. MacLaren. diag Electronics 14:50+ N '41

Design

Heat transfer to clouds of falling particles. H. F. Johnstone, R. L. Pigford and J. H. Chapin. diags Ill U Eng Exp Sta Bul 330: 1-55 '41 (pa 65c)

Firing

Pulverized coal in high-temperature furnaces. C. F. Herrington. il diag Steel 110:62-3+ Je 1 '42

Lining

American ceramic society annual meeting, Cincinnati; abstracts of refractories papers. Brick & Clay Rec 100:38-9 My '42
Insulating fire brick. Brick & Clay Rec 101: 52+ S '42
See also
Furnaces, Steel making—Lining

FURNACES, Annealing
Application of porcelain enameling furnaces to the war effort. G. H. Carpenter. Cer Ind 39:29-30 N '42
Conversion of porcelain-enameling furnaces to war work. diags Steel 110:68 Mr 9 '42
Direct-fired catenary furnace for annealing stainless steel strip. il diags Steel 110:96+ F 16 '42
Modern methods and equipment for malleable iron; abstracts of papers, American foundrymen's association; reported by M. L. Samuels and C. H. Lorig. il Metal Prog 41: 804-5 Je '42
See also
Glass furnaces

Atmosphere control

Continuous check against tarnish when annealing shell cases; Continental oxygen detector units. C. P. Masure. Metal Prog 42:694 O '42
Purging controlled atmosphere furnaces. F. B. Leslie. il Metals & Alloys 16:241-5 Ag '42

Control

Automatic malleablizing cycle control. R. Trautschold. il Steel 109:89+ N 24 '41

FURNACES, Boiler
Air-cooled arch stops spalling ills. Elec W 118:1427 O 31 '42
Boiler firebox maintenance. K. Steiner. il Heating-Piping 14:610-12 O '42 (to be cont)
Combustion safeguards for boiler furnaces. T. A. Cohen. il diags Power Pl Eng 46:62-4 Ap '42
Practical aspects of damper control. P. S. Dickey and H. L. Coplen. diags Power Pl Eng 46:60-2 Ja '42
Rear arch improves underfeed-stoker operation. D. J. Mosshart. diags Power 86:384-5 Je '42
Research yields furnace data; abstracts of papers, American society of mechanical engineers. diags plan Power 85:980-1 Mid-D '41
Slag and spalling mean high furnace maintenance. M. N. Gozdenovich. Power Pl Eng 46:102 N '42
Slag and spalling mean high furnace maintenance. L. A. Shipman. Power Pl Eng 46:99-100 S '42
Step-up stokers for war loads; furnace improvements. L. N. Rowley. diags Power 86: 170-2 Mr '42
Suspended furnace walls give less trouble. G. P. Reintjes. diags Power 86:248-9 Ap '42
Two furnace explosions cause severe damage. il Locomotive 44:34-6+ Ap '42
See also
Boilers
Boilers—Firing

Design

Heating and process steam influence Iowa extension; two-part furnace burning both pulverized coal and refuse and turbine with head-end stage in two sections. J. M. Drabelle. il diags Elec W 117:2210-13 Je 27 '42

FURNACES, Carburizing
National emergency gear steels; use of the Amola or 4000 series steels. E. F. Davis. il Iron Age 150:61-3 Ag 13 '42

FURNACES, Cupola. See Cupola furnaces

FURNACES, Electric. See Electric furnaces

FURNACES, Enameling
Application of porcelain enameling furnaces to the war effort. G. H. Carpenter. Cer Ind 39:29-30 N '42
Conversion of porcelain-enameling furnaces to war work. diags Steel 110:68 Mr 9 '42
Fitting porcelain enamel equipment into the heat treating program. H. McQuaid. Cer Ind 39:30-1 N '42
Temperature measurement in industrial furnaces; abstract. O. Koritnig. Am Cer Soc J 25 (Cer A 21):87 Ap 1 '42

Firing

Automatic enameling furnace designed for controlled-oxidation firing. W. G. Martin. il diags Am Cer Soc Bul 20:430-4 D '41
Controlled oxidation enamel furnace reduces defects in ware. W. G. Martin. il plan Cer Ind 38:74, 76 F '42

FURNACES, Forging

Increasing the efficiency of the forging furnace. A. F. Macconochie. il Steel 110:76-8, 80+ My 18 '42

Making tractor forgings; International harvester co. H. Chase. il Metals & Alloys 15:957-8 Je '42

Modern forging furnaces. A. F. Macconochie. il diags Steel 110:72-5 My 25 '42

Water-cooled forging furnace doors. J. O. G. Gibbons. diags Metals & Alloys 15:123 Ja '42

FURNACES, Foundry

See also

Electric furnaces, Foundry

Furnaces, Non-ferrous melting

Furnaces, Steel making

FURNACES, Galvanizing

Heat requirements for hot dip galvanizing. W. G. Imhoff. il Steel 110:80, 85-6 Ap 27 '42

FURNACES, Heat treating

Forced convection heating speeds heat treating; furnace developed by Lindberg engineering co. il Iron Age 150:48 N 5 '42

Furnaces and heat treatment. Metal Prog 42:591-660 O '42

Furnaces for production heat-treating. R. Le Grand. il diags Am Mach 85:1027-30, 1084-6, 1131-3, 1256-9 O 15-N 12, D 10 '41

Gas, a major tool of war production. il Gas Age 90:38-42+ Jl 16 '42

Gas specific gravity meter makes heat-treating furnace safe. E. Pick. Instruments 15:28+ Ja '42

Gehnrich conveyor type heat-treating furnace. il Mach 48:166-7 D '41

Heat treating aluminum aircraft parts. Iron Age 149:47-9 My 21 '42

Heat treating cast tank hulls. diags Iron Age 149:39 Ja 8 '42

Heat treating high-explosive shell. J. McElgin. diags Steel 109:70, 72+ D 1 '41

Heat-treating jack parts. il Am Mach 86:296-7 Ap 2 '42

Heat-treatment of molybdenum high-speed steels; controlled-atmosphere furnace and salt bath methods of hardening. Mach 48:127-8 Ja '42

High-temperature forced-convection furnaces. F. P. Peters. il Metals & Alloys 16:639-43 O '42

Improved performance with salt bath furnaces. il Steel 110:98, 101 Mr 2 '42

New equipment; heat treating and processing controls. il Iron Age 149:65-7 Mr 5; 150:53-7 O 29 '42

New equipment speeds aluminum heat treating; Bell aircraft corp. R. L. Stevens and J. Whiteley. il Iron Age 150:40-3 O 29 '42

New radiant-tube furnace has indirect heating system; gas burners for heat treatment of aluminum and magnesium castings. il Steel 109:53 D 15 '41

Resistance to furnace atmospheres of heat-resisting steels. A. G. Quarrell. Iron & Steel Inst J 144:49-54 no 2 '41; Same. Engineering 151:505-6 Je 27 '41; Abstract. Metal Prog 40:946+ D '41; Discussion. Iron & Steel Inst J 144:55-61 no 2 '41

Selecting oven type heat-treating furnaces. H. L. Horton. il Mach 48:130-3 My; 155-8 Je; 225-7 Jl; 133-6 Ag '42

Shell bodies heat treated uniformly in new rolling radiant-tube furnace. il diags Steel 110:78 Ja 19 '42

Small radiant cups direct heat to work; method of using gas for industrial heating. F. O. Hess. il diag Metal Prog 41:217-20 F '42

Temperature measuring and control devices for industrial furnaces; radiation pyrometers. H. G. Mead. Cer Ind 39:29 N '42

Tools of war from yesterday's laboratories; gas fired furnaces. H. M. Heyn. il Gas Age 89:38-40+ My 7 '42

25-sec. quenching for light metals. il Iron Age 150:72-3 O 22 '42

29th buyers reference number. il diag Am Mach 86:283-9 Ja 22 '42

See also

Electric furnaces, Heat treating

Furnaces, Annealing

Atmosphere control

Accurate dew point indication for atmospheres of heat-treating furnaces. P. R. Kalischer. il diag Steel 111:110-11 S 14 '42

Application of controlled atmospheres to heat treating. C. E. Peck. il Metal Prog 41:814-15, 817-18 Je '42

Atmosphere control in the heat treatment of non-ferrous metals; abstract. Metals & Alloys 14:778-9 N '41

Bright hardening atmosphere readily produced from commercial gas. C. E. Peck. Metal Prog 42:599 O '42

Bright hardening of ordnance parts. J. A. Dow. Metal Prog 42:600 O '42

Carbon pressure control of furnace atmospheres. J. R. Gier. il Steel 109:54+ D 22 '41

Electronic controls guard furnace atmospheres. il diag Iron Age 150:55 S 3 '42

Fuel effects on controlled atmosphere furnaces. F. A. Locke. il Iron Age 149:37-40 Mr 19 '42

Furnace atmospheres; a survey of some recent researches in America. diags Automobile Eng 32:415-18 O '42

Heat etching as a general method for revealing the austenite grain size of steels. O. O. Miller and M. J. Day. bibliog il diag Am Soc for Metals Trans 30:541-63; Discussion. 563-8 S '42

Heat-treatment of molybdenum high-speed steels; controlled-atmosphere furnace and salt bath methods of hardening. Mach 48:127 Ja '42

Measuring furnace atmospheres; Ranarex analyzer. F. B. Leslie. il Iron Age 149:60-2 Mr 5 '42

Surface structures and chemistry of heat treated 18-4-1 steel. W. A. Schlegel. il Iron Age 148:45-50 D 4; 48-59 D 11; 54-8 D 18 '41

See also

Electric furnaces, Heat treating—Atmosphere control

Control

Automatic time-temperature control in heat treating. diag Iron Age 150:54-5 N 5 '42

Cost of operation

Heat treat costs; Caterpillar tractor, Peoria, Ill. G. T. Krider. N A C A Bul 23:1429-38 Jl 1 '42

Lining

Castable refractory shortens furnace shutdowns; L. W. Firecrete. il Steel 109:68 D 1 '41

FURNACES, Heating

Improved performance with salt bath furnaces. il Steel 110:98, 101 Mr 2 '42

Industrial gas goes to war! H. M. Heyn. Chem & Eng N 20:741-2 Je 10 '42

Standard fuel costs for reheating furnaces. F. Ryder. bibliog Blast F & Steel Pl 29:[1112-15], 1210-12; 30:238-40, 351-5, 382-3, 441-3 N-D '41, F-Ap '42

Steel furnace instrumentation, with special reference to soaking-pit and open-hearth. M. J. Boho. flow chart il diags Instruments 15:167-72 My '42

See also

Furnaces, Forging

Furnaces, Heat treating

Lining

Soaking pit and reheating furnace refractories. J. H. Chesters. bibliog il diags Iron Age 150:35-42 Jl 16; 38-43 Jl 23 '42

FURNACES, Laboratory

Gas-fired furnace for semimicrodetermination of carbon and hydrogen. H. A. Pagel. il Ind & Eng Chem Anal ed 14:764-6 S 15 '42

FURNACES, Metallurgical

Copper metallurgy, 1941. E. A. Peretti. il Eng & Min J 143:83-4 F '42

Furnaces and heat treatment. Metal Prog 42: 591-660 O '42

Gas volumes in modern furnaces. H. M. Brownrigg. diags Can Min J 63:225-31 Ap '42; Correction. 63:314 My '42

Mining quicksilver in Nevada. S. H. Williston. il diag Min Cong J 28:24-8 N '42

Report of metal treating and melting committee. il Am Gas Assn Proc 1941:385-7

Roasters eliminated in arrangement of smelter at Morenci. L. R. MacLeod. il diag Min & Met 23:278-81 My '42

Sintering furnaces and atmospheres. R. P. Koehring. il diag Metal Prog 41:657-62+ My '42

Surface hardening; ni-carbing cycles and equipment employed at General Motors. R Trautschold. il Steel 111:64-5+ O 26 '42

Tools of war from yesterday's laboratories; gas fired furnaces. H. M. Heyn. il Gas Age 89:38-40+ My 7 '42

See also

Blast furnaces	Furnaces, Steel making
Cupola furnaces	Open hearth furnaces
Electric furnaces, Metallurgical	

Atmosphere control

Controlled atmospheres; this book contains the papers and discussions constituting the symposium on controlled atmospheres presented before the 23d annual convention of the American society for metals, Philadelphia, Oct. 20-24, 1941. 232p $4 Am. soc. for metals, Cleveland '42

Lining

Furnace lining that is rammed into place; Ramix. diags Comp Air M 47:6692 Mr '42

Insulating fire brick in modern furnace construction; with cost data. N. A. Humphrey. Blast F & Steel Pl 29:1197-1201 D '41

Refractoria quo vadis. J. D. Sullivan. bibliog il Blast F & Steel Pl 30:72-5 Ja '42

Six times as much insulating brick. G. E. Grimshaw. Metal Prog 42:594 O '42

Testing

Test codes for furnaces. Chem Age (Lond) 46:9 Ja 3 '42

FURNACES, Non-ferrous melting

Efficient crucible melting; abstract. G. K. Eggleston. Metals & Alloys 16:714+ O '42

Melting furnace for non-ferrous metals. H. E. Osgood. il diag Power 86:730-1 O '42

Melting technique in the magnesium foundry; abstract. Metals & Alloys 15:474+ Mr '42

FURNACES, Recuperative and regenerative

Faster heats in regenerative furnaces with improved checker system. Brick & Clay Rec 99:51 D '41

FURNACES, Reverberatory

Roasters eliminated in arrangement of smelter at Morenci. L. R. MacLeod. il diag Min & Met 23:278-80 My '42

FURNACES, Steel making

Temperature distribution in the liquid steel in various steel-making furnaces. D. A. Oliver and T. Land. il diags Blast F & Steel Pl 30:997-1002 S '42; Same. Iron & Steel Inst J 145:245-59, pl 25 no 1 '42; Discussion. Engineering 153:394 My 15 '42; Iron & Steel Inst J 145:260-77 no 1 '42

See also

Electric furnaces, Steel making	Furnaces, Heating
Furnaces, Heat treating	Open hearth furnaces

Lining

Acid and basic Bessemer refractories. J. H. Chesters. bibliog il diags Iron Age 150:43-8 N 5; 58-64 N 12 '42

Dolomite bricks for use in steel works. T. Swinden and J. H. Chesters. diags Iron & Steel Inst J 144:105-18, pl 15-16 no 2 '41; Same cond. Blast F & Steel Pl 29:1162-6, [1156-9], 1254-5 O-D '41; Same cond. Engineering 152:317-19 O 17 '41; Excerpts. Metal Prog 41:544 Ap '42

Improvements in steel mill refractories. L. A. Smith. il Blast F & Steel Pl 30:80-2 Ja '42

Magnesitic ramming mixtures, Ramix and Ramix 82, in basic electric and basic open hearth furnaces; abstract. H. N. Barrett, jr. Iron Age 149:49-50 Ap 23 '42

Modern hearth refractory practice; Ramix and Ramix 82. H. N. Barrett, jr. il diags Blast F & Steel Pl 29:1218-20 D '41; Same. Steel 110:80, 82, 84 Mr 23 '42

Second report on refractory materials; joint refractories research committee of the Iron and steel industrial research council and the British refractories research association. Engineering 154:5 Jl 3 '42

FURNACES, Warm air

Coal grates for oil furnaces. il diags Sheet Metal Worker 33:50-2 Ap '42

Combustion efficiencies as related to performance of domestic heating plants. A. P. Kratz, S. Konzo and D. W. Thomson. diags Ill U Eng Exp Sta Circ 44:1-30 '42 (pa 40c); Excerpts. Sheet Metal Worker 33:50-2 O '42

Converting oil heater to coal. il diag Sheet Metal Worker 33:40+ Jl '42

Dealers helped by national advertising. Sheet Metal Worker 33:29 Ag '42

Direct fired coal burning heater. il Heating-Piping 14:sup113+ Jl '42

Furnace cleaning in war time. Sheet Metal Worker 33:34 Mr '42

Furnace demonstration methods that pay. G. H. Watson. il Sheet Metal Worker 33:40+ F '42

Gas floor furnaces, gravity circulating type. U S Nat Bur Stand Commercial Standard CS99-42:1-13; pa 5c Supt. of doc. '42

Gas service manual; furnaces. W. L. Riehl. diags Gas Age 89:33-4 Mr 12 '42

Housing critical list clarified. Sheet Metal Worker 33:46+ My '42

N.W.A.H.A.C.A. adopts oil-burning furnace code. il diags Sheet Metal Worker 32:50, 52 N '41

Oil furnace has triple insulation. il diag Product Eng 13:132 Mr '42

Present furnace metal gages retained. Sheet Metal Worker 33:50 Je '42

Refractories can substitute for metal in hot air furnaces. diag Brick & Clay Rec 100: 46 Je '42

Warm air furnace orders forge ahead; statistics for third quarter of 1941. Sheet Metal Worker 32:62+ D '41

Firing

Hand-firing of bituminous coal in the home. A. P. Kratz, J. R. Fellows and J. C. Miles. il diags Ill U Eng Exp Sta Circ 46:3-33 '42 (pa 25c)

New home bogey licked by stoker installation matching rival automatic heat. il plan Coal Age 46:43-4 N '41

Installation

Furnace bonnet above registers; difficult installation in basementless house. il diags plans Sheet Metal Worker 33:89, 91-2+ Ja '42

Manufacture

Welding domestic oil furnaces and boilers; General electric co. J. E. Waugh. il Steel 110:84, 86+ Ap 20 '42

Standards

New commercial standard for floor furnaces. il Gas Age 89:11-13+ Mr 26 '42

Testing

Air openings to furnace rooms. C. W. Pollock. Gas Age 90:27-8 Ag 13 '42

Test code for coal furnaces; consideration by government has aroused widespread interest. S. Konzo. Sheet Metal Worker 33:50 Je '42

FURNESS, Withy and company

Ordinary general meeting, 51st, London. Economist 143:314 S 5 '42

FURNITURE

Book of furniture and decoration: period and modern. J. Aronson. 6th ed rev & enl 356p bibliog(p348-9) $2.75 Crown publishers, New York '41

Colors of furniture. P. Moon. Opt Soc Am J 32:293-8 My '42

Flexible furniture for inflexible housing. il Arch Forum 76:sup6+ Je '42

Furniture in transition; virtues of what is called modern. C. M. Stow. il Tech R 44: 272-4+ Ap '42

Goodby Mr Chippendale; contemporary designers use the materials of today to design for the living. il Fortune 25:56-63 Ja '42

It's fun to build modern furniture. C. K. Lush. 111p $1.75 Bruce pub. '42

Laminates and treated surfaces; partitions, table tops, desks, walls, panels, ceilings, etc. il Mod Plastics 19:50-1+ Ap '42

Modern homecraft; modern furniture design, construction and finishing. G. A. Raeth. 238p $3 Drake '41

New: packaged rooms for people on the go. il Sales Management 51:17 Ag 15 '42

Pakto goes into production; inexpensive, small-scale, demountable furniture goes into factory production. il Arch Forum 77: 4 Jl '42

Practical upholstering. J. W. Stephenson. 4th ed rev & enl 291p $8 Clifford & Lawton, 373 4th av, New York '41

Utility furniture. Economist 143:89 Jl 18 '42

See also

Bank furniture
Desks
House decoration
Interior decoration
Office furniture

FURNITURE, Built-in

Home betterments under $500 limit; three clever built-ins added to Park Ridge, Ill. research remodel house. il plans Am Bld 64:39-41 Jl '42

Six interior details. il plans Arch Rec 92: 55-60 S '42

Two built-in units. il diags Arch Rec 91: 41 F '42

FURNITURE, Metallic

Metal household furniture output restricted to conserve materials. Steel 110:26 Mr 30 '42

FURNITURE, Spanish

Spanish colonial furniture. A. D. Williams. 136p $3 Bruce pub. '41

FURNITURE factories

Electric equipment

Modern woodworking; H. Morris & co. il Elec R (Lond) 131:449-54 O 9 '42

Employees

Earnings in the case-goods furniture industry. O. C. Clark. Monthly Labor R 55:124-8 Jl '42

Minimum wages in the wood furniture manufacturing industry. 79 numb l U.S. Dept. of labor, Wage and hour div. Research and statistics branch, Washington '41

Power

Plant-designed woodburning setup meets test of experience; Standard furniture co.'s plant. il diag Power 85:903-5 D '41

FURNITURE industry and trade

Furniture designed for today doubles sales for Dunbar. il Sales Management 50:18-19 Ap 1 '42

Furniture's war; Grand Rapids plants pool for war orders. Business Week p62 Je 13 '42

Harried industry; makers of wooden furniture despair of a large scale conversion to war work. Business Week p60 Ag 8 '42

Insurance has interest in furniture-makers plight. D. Porter. Ins Field (Fire ed) 71:16 Jl 30 '42

Selling home furnishings; a training program. R. R. Rau and W. F. Shaw. il diags U S Office of Educ Vocational Div Bul 216, Business Educ Ser 14:1-275 bibliog(p250-1) '41

Great Britain

Furniture prices controlled. Economist 143: 184 Ag 8 '42

Utility furniture. Economist 143:521-2 O 24 '42

United States

Furniture, 1942; trouble in transportation bottlenecks, war-diminished market. Business Week p32+ Ap 11 '42

Furniture's hope; industry evolves designs scaled to dimensions of new housing. Business Week p30 Ap 18 '42

FURNITURE springs. See Springs (furniture)

FURNITURE stores

Furniture shop, New York city. il plans Arch Forum 77:86-8 Ag '42

FUROIC acid

Reaction of furoic acid with aromatic compounds. C. C. Price, E. C. Chapin and M. Rieger. Am Chem Soc J 64:2227-8 S '42

FURRIERS' customers insurance. See Insurance, Furriers' customers

FUSAIN

Determining the fusain content of Illinois coals; comparison of chemical and petrographic methods. B. C. Parks, G. W. Land and O. W. Rees. Ind & Eng Chem Anal ed 14:303-5 Ap 15 '42

FUSARIUM

Some aspects of microbiology in the treatment of sewage. T. G. Tomlinson. il Soc Chem Ind J 61:53-8 Ap '42

FUSEL oil

Fusel oil in rums. Chem Ind 50:53 Ja '42

Analysis

Komarowsky color reaction for aliphatic alcohols; limitations and sensitivity. H. W. Coles and W. E. Tournay. bibliog il Ind & Eng Chem Anal ed 14:20-2 Ja 15 '42

FUSES

Artillery ammunition—a challenge! F. A. Marshall. il Mod Plastics 19:46-7+ Je '42

Seismic shooting near power lines; the use of Primacord detonating fuse reduces hazards. R. L. Klotz, jr. il diags Explosives Eng 20:108-12 Ap '42

Manufacture

Aircraft bomb fuzes; Westinghouse electric & manufacturing company. il diags Am Mach 85:1323-33 D 24 '41

Drill jig for bomb fuzes. M. Kautz. diags Am Mach 86:392 Ap 30 '42

Fuze makers speed output by new kind of cooperation. B. Finney. Am Mach 86:1001-2 S 17 '42

Percussion fuze for small shell; Canadian plant. il diags Am Mach 86:447-62 My 14 '42

Quality control in bomb fuze manufacture. A. L. Atherton. il Steel 110:58-61 Ja 19 '42

Shell fuzes by the million. il diags Am Mach 86:775-94 Jl 23 '42

Some typical conversion case histories; adapting facilities to produce bomb fuzes. il Metals & Alloys 15:770-2 My '42

Two-spindle heads for fuze parts; when you can't buy tools, make them. il diags Am Mach 86:832-3 Ag 6 '42

FUSES, Electric. See Electric fuses

FUSION

Theory of fusion. J. G. Kirkwood and E. M. Boggs. J Chem Phys 10:307 My '42

FUSION, Heat of

Heat capacity and entropy, heats of fusion and vaporization and the vapor pressures of isopentane. S. C. Schumann, J. G. Aston and M. Sagenkahn. bibliog Am Chem Soc J 64:1039-43 My '42

Heat of fusion and the heat capacities of solid and liquid white phosphorus. F. E. Young and J. H. Hildebrand. bibliog Am Chem Soc J 64:839-40 Ap '42

FUSULINA

New genera of Pennsylvania fusulinids. M. L. Thompson. Am J Sci 240:403-20, pl 1-3 Je '42

FUTURES

Commodity contracts by blocked accounts. Comm & Fin Chr 154:1020 N 13 '41

Farmers name committee to work with the Commodity exchange administration on futures trading problems. Comm & Fin Chr 154:1233 N 27 '41

See also
Exchanges
Speculation

FYBR-TECH. See Plywood

G

GABARDINE

Effect of resin finishes on the color fastness and physical properties of rayon gabardines. H. M. Fletcher, W. M. Hay and A. J. Surratt. Am Dyestuff Rep 31:489-93 O 12 '42

GADGETS

Gadgets for 194x. il diags plans Arch Forum 77:112-13 S '42

GADOLINIUM

Rare-earth metal amalgams; the separation of neodymium, samarium, and gadolinium. J. K. Marsh. Chem Soc J p523-6 Ag '42

GAGES

Adjustable caliper gauges. diag Engineering 154:156 Ag 21 '42

Aging of tools and gages. R. B. Seger. Metals & Alloys 15:278 F '42

Air conditions for precision gages; Pratt and Whitney. C. L. Roberts. Heating-Piping 14:160 Mr '42

ASA approves new standard gage system for thin sheet metals. H. W. Tenney. Ind Stand 12:313-15 D '41

Anti-friction plug gage. il Iron Age 150:62 O 22 '42

British Timken plug gauge with ball entry. il Engineering 154:196 S 4 '42

Castaloy fixtures unify aircraft production; tools, fixtures and gages made from Cerrobend. C. S. Ricker. il Aviation 41:106-9 Ag '42

Combination gages for hole and offset checking. F. Hartley. diags Mach 48:143-4 Ag '42

Continuous electrical gages for sheet and strip materials. F. Buckingham. Instruments 15:11 Ja '42

Electric gages. H. P. Kuehni. il diags Gen Elec R 45:533-6 S '42

Emmerton plug gauge. il Engineer 174:159-60 Ag 21 '42; Automobile Eng 32:360 S '42

Federal thread and shell thickness gages. il Mach 48:174 Mr '42

Foolproof gaging system developed by Army Ordnance. J. B. Nealey. il diags Iron Age 150:45-50 S 3 '42; Abstract. Metals & Alloys 16:972+ N '42

Gage and cutter conservation in Canada. il Am Mach 86:233-44 Mr 19 '42

Gage checks tool bits. M. H. Ball. diag Am Mach 86:714 Jl 9 '42

Gage designed for sizing ball races of gun turrets. K. Strayer. il diag Mach 49:135-6 S '42

Gage for checking eccentric location of a hole. diags Mach 48:145-6 Je '42

Gage for measuring screws. D. H. Thomas. il Am Mach 86:350 Ap 16 '42

Gage for reconditioning locomotive cranks. A. H. Carroll. diag Am Mach 86:112 F 19 '42

Gages and their use in inspection. F. H. Colvin. 158p $1.50 McGraw-Hill '42

Gauging; developments in the well-tried pneumatic principle. il Automobile Eng 32:263-5 Jl '42

Gaging set-ups of the fixture type. F. Server. diag Mach 49:168-9 O '42

Glass and other gages; abstract. H. B. Hambleton. Iron Age 150:64 O 22 '42

Height gage made from micrometer. D. E. McDonald. diags Am Mach 86:834-5 Ag 6 '42

Important points on gages and gaging procedure. G. H. Stimson. il Mach 48:119-24 F '42

Locating holes with gage-blocks and indicator. P. J. Adrian. diags Mach 48:146-7 Je '42

McKee wear gage. il R Sci Instr 13:465 O '42; Iron Age 150:83 O 22 '42

Mechanical handle for gauges. il Engineer 174:283 O 2 '42

Molding a one-piece gage face. il diag Mod Plastics 20:73+ S '42

Multiple automatic gaging of shell. L. J. Mahlmeister. il Steel 109:64, 66, 68 D 8 '41

New equipment; gages and small tools. il Iron Age 149:70-1 Mr 12; 150:58-60 Jl 23 '42

New low pressure gage; abstract. C. C. Coffin and J. R. Dingle. diag Chem & Met Eng 49:160 Ja '42

Ordnance production gaging. R. A. Bowman. il diags Instruments 15:174-5+, 244-7+, 292-6, 352-4, 356, 412-16 My, Jl-O '42

Quick methods for measuring thickness; electric gages. E. S. Gallagher. il diags Am Mach 86:1155-7 O 15 '42

Set-up for grinding snap gages. G. Haessler. diags Am Mach 85:1264 D 10 '41

Sheffield gage for checking internal and external diameters. il Mach 48:171-2 Je '42

See also
Ionization gage
Pressure gages

Manufacture

Air conditioning is a tool in production of accurate gages at Greenfield tap & die corp.'s new Massachusetts factory. il diags Arch Forum 75:432-4 D '41

From games to gages, dies and bullet punches. il Steel 110:30-1 Je 1 '42

Modern lighting in modern gage plant; Merz engineering company. R. M. Brown. il Elec W 116:1563-4+ N 15 '41

Subcontracting precise work; Federal products co. manufacture of special gage fixture; abstract. I. A. Hunt. Iron Age 150:67 O 22 '42

Standards

New gaging standard supplements American standard for screw threads. Ind Stand 13:85-6 Ap '42

Wear allowances and gagemakers tolerances, plain plug and plain ring inspection gages; flush pin and adjustable snap gages; chart. R. A. Bowman. Instruments 15:174 My '42

GAGING

See also
Oil measurement
Water measurement

GALACTOPYRANOSIDOMANNOSE

Syntheses of epi-lactose and lactose. W. T. Haskins, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1852-6 Ag '42

GALACTOSAN

Studies on D-galactosan <1,5>β<1,6>. R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:2435-8 O '42

GALACTOSE

Constitution of arabo-galactan. E. V. White. bibliog Am Chem Soc J 63:2871-5; 64:302-6 N '41, F '42

Constitution of arabo-galactan; the location of the arabinose component. E. V. White. bibliog Am Chem Soc J 64:1507-11 Jl '42

Crystalline modifications of D-manno-D-galaheptose, and the preparation of some of its derivatives. E. M. Montgomery and C. S. Hudson. bibliog Am Chem Soc J 64:247-54 F '42

Experiments on the formation of mixed osazones and their anhydrides. E. E. Percival and E. G. V. Percival. Chem Soc J p750-5 N '41

Polymorphism of *d*-galactose diethylmercaptal pentaacetate. L. H. Welsh and G. L. Keenan. il Am Chem Soc J 64:183-6 Ja '42

GALACTOSE—*Continued*

Rates of reaction of diacetone glucose, diacetone galactose and diacetone sorbose with *p*-toluenesulfonyl chloride in pyridine solution. R. C. Hockett and M. L. Downing. Am Chem Soc J 64:2463-4 O '42

GALBRAITH, John Kenneth, 1908-

Portrait. Business Week p27 My 9 '42

GALE, William Alexander

Personalities in chemistry. A. D. McFadyen. por Chem Ind 49:800-1+ D '41

GALENA

Galena in concretions of Pottsville age. K. Ver Steeg. Science 95:223 F 27 '42

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

Wanted, sedimentary galenas; measurement of geologic time. A. C. Lane. Science 94:463 N 14 '41

GALILEI, Galileo, 1564-1642

Galileo, Newton, and Halley. Engineering 154:334-5 O 23 '42

GALLATIN, Albert, 1761-1849

Jefferson's great secretary of the Treasury. por Fortune 26:128-9 N '42

GALLIC acid

Chemical constitution and the tanning effect; simple esters and polyesters of gallic acid. A. Russell and W. G. Tebbens, jr. Am Chem Soc J 64:2274-6 O '42

GALLIUM

Electrolytic reduction of organic compounds; bimolecular products from sorbic acid at a solid and a liquid gallium cathode: analogy with overvoltage. K. B. Wilson and C. L. Wilson. Chem Soc J p874-7 D '41

Analysis

Detection of gallium by a fluorescence reaction with 8-hydroxyquinoline. E. B. Sandell. Ind & Eng Chem Anal ed 13:844-5 N 15 '41

GALLIUM halides

Structures of the gallium and indium trihalides. D. P. Stevenson and V. Schomaker. Am Chem Soc J 64:2514 O '42

GALLNUTS

Iraq's gall-nut industry. For Comm W 9:26 O 10 '42

GALLS (botany)

Carotenoids of telial galls of gymnosporangium juniperi-virginianae Lk. B. L. Smits and W. J. Peterson. bibliog Science 96:210-11 Ag 28 '42

Possible new sources of nutgalls and valonia. C. D. Mell. Textile Col 64:334-6 Jl '42

Stem galls of sugar-cane induced with insect extracts. J. P. Martin. Science 96:39 Jl 10 '42

GALLUP surveys

Gallup surveys. H. Durant. Textile Inst J 32:P107-9; Discussion. P109-11 D '41

GALOSHES. See Shoes, Rubber

GALVANIZING

Cause of gray sheets in hot-dip galvanizing. W. G. Imhoff. bibliog Blast F & Steel Pl 29:[1124-6+] N '41

Heat requirements for hot dip galvanizing. W. G. Imhoff. il Steel 110:80, 85-6 Ap 27 '42

Hot galvanizing. A. T. Baldwin. il Iron Age 149:44-7 Ja 22 '42

New regalvanizing process for rustproofing welded joints. Mach 48:159 Ja '42; il Iron Age 148:52 N 27 '41

Regalvanizing welded seams; possibilities in lengthening life of welded structures made from galvanized steel. il Steel 110:64+ Je 29 '42

Report on dropping tests for zinc and cadmium coatings. W. E. Buck. Metal Finishing 40:242+ My '42

Restrictions on the galvanising of wire. Engineering 154:268 O 2 '42

Review of hot-dip galvanizing and hot-dip tinning activities during the year 1941. W. G. Imhoff. Metal Finishing 40:12+ Ja '42

Zinc losses in hot-dip galvanizing. W. G. Imhoff. il Metal Finishing 40:587-90 N '42

GALVANOMETERS

Direct pen recording of galvanometer deflections. D. J. Pompeo and C. J. Penther. il diags R Sci Instr 13:218-22 My '42

Extended range galvanometer deflection recording system. R. J. Pfister and D. H. Rank. il diag Opt Soc Am J 32:397-9 Jl '42

Measuring crest voltage; capacitor-galvanometer method; abstract. G. W. Bowdler. Elec R (Lond) 130:636 My 15 '42; Discussion. Electrician 128:487-8 My 15 '42

Oscillography; magnetic oscillograph. J. E. Hancock. bibliog il Gen Elec R 45:527-31 S '42

Range switch for ballistic galvanometers. E. F. Coleman. diag R Sci Instr 13:405-6 S '42

William DuBois Duddell. diags Power Pl Eng 46:89 Jl '42

GAMBRELL, Eric C.

Sketch. S. Welton. East Underw 43:24 F 20 '42

GAME

See also

Hunting

GAMES

Advertising

Advertisers survey backyard market; prospect is pleasing for sale of games and other recreational devices. G. Murray. Ptr Ink 200:30+ Ag 21 '42

GAMMA rays

Disintegration schemes of radioactive substances; I^{131}. J. R. Downing, M. Deutsch and A. Roberts. bibliog Phys R 61:686-91 Je 1 '42

Energies of gamma-rays from Ni^{63}, Mn^{56}, Zn^{69}, Ga^{67}. A. Guthrie. Phys R 60:746-7 N 15 '41

Energy of gamma-rays accompanying the decay of Be^{7}. I. Zlotowski and J. H. Williams. bibliog Phys R 62:29-32 Jl 1 '42

Gamma-ray apparatus and technique; abstract. L. W. Ball and D. R. Draper. Metals & Alloys 16:90+ Jl '42

Gamma-ray well-logging in Trinidad. G. M. Conklin. Inst Pet J 28:141-5, 172-5 Jl-Ag '42

Gamma-rays from Na^{24}. C. E. Mandeville. bibliog diag Phys R 62:309-12 O 1 '42

Nuclear photo-effect on sulphur, aluminum, and magnesium. O. Huber and others. Phys R 60:910 D 15 '41

Prevention and control of hazards in the radium dial painting industry. L. F. Curtiss. il diags J Ind Hygiene 24:131-41 Je '42

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

GANGRENE, Gas

Gas gangrene; caused by magnesium in cuts and wounds. Science 95:sup10 Ja 9 '42; Same. Safety Eng 84:72 O '42

Health hazards in handling magnesium; gas gangrene and other industrial health hazards. W. Schweisheimer. il Iron Age 150:56-7 Jl 16 '42

Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

GANNETT, Frank Ernest, 1876-

Photographic story of famous newspaper man. Spectator (Life ed) 149:10-13 Jl '42

GANTRIES. See Cranes, derricks, etc.

GANTT charts

Gantt chart; a working tool of management. W. Clark. 2d ed 158p $3 Pitman '42

GARAGE keepers' legal liability insurance. See Insurance, Automobile—Garage owners' and dealers' liability policies

GARAGES

Four-story underground parking space in downtown San Francisco. il diags Eng N 127:714-16 N 20 '41

GARAGES—*Continued*

Modern storeyard and garage facilities; adjunct to the water works system of Akron. W. R. La Due. il plan Water Works & Sewerage 89:374-7 S '42

Parking garage under Union Square, San Francisco. il Arch Forum 75:sup14 D '41

Parking space four stories down; garage under San Francisco's Union square. il Eng N 129:520-1 O 15 '42

See also

Gasoline service stations

Motor bus lines—Garages

Heating and ventilation

Warm-air heat for highway garage. il diags plan Sheet Metal Worker 33:46+ S '42

Lighting

Pit lighting; practices of various companies. Transit J 86:288-90 Ag '42

GARBAGE disposal. See Refuse disposal; Sewage disposal—Sludge and refuse mixing

GARCOLITE

Investigations at Mellon institute 1941-42; garspar, garcolite, and gartex. Chem & Eng N 20:448 Ap 10 '42

GARDEN supplies

Advertising

Victory garden, topic for coming advertising. il Ptr Ink 198:21 Mr 20 '42

GARDENING

Glass guns for victory; soil testing in gardens and on farms. A. H. Carhart. il Sci Am 166:188-9 Ap '42

Popular mechanics garden book. 96p $1 Popular mechanics co, Chicago '42

See also

Landscape gardening

GARLIC

Mexican garlic production. For Comm W 5:28 D 13 '41

GARMENT cutting

Women's measurements for garment and pattern construction. R. O'Brien and W. C. Shelton. il pls diags U S Agric Misc Pub 454:1-73 '41

GARMENT factories

Equipment

Steam requirements of industrial processes; data sheet. Heating-Piping 14:676 N '42

Willcox & Gibbs break plant bottlenecks; help customers qualify for war orders; sewing machine manufacturer helps garment factories. il Sales Management 51:42+ Jl 15 '42

Power

Ingenuity puts Crawford Clothes plant on the line in four months; three-pressure-level steam plant with Diesels for heat balance. il diags Power 86:312-14 My '42

GARMENT industry

Effects of a minimum wage in the cotton-garment industry, 1939-41. R. J. Myers and O. C. Clark. Monthly Labor R 54:318-37 F '42

Southern garment manufacturers association 10th annual meeting, Atlanta, Aug. 24-26. Textile World 92:93 S '42

GARMENT workers

Earnings in the men's cotton-garment industries, 1939 and 1941. L. M. David and D. S. Stone. Monthly Labor R 55:335-51 Ag '42

Effects of a minimum wage in the cotton-garment industry, 1939-41. R. J. Myers and O. C. Clark. Monthly Labor R 54:318-37 F '42

Pay-rise milepost; C.I.O.'s clothing workers win 10c-an-hour boost. Business Week p73 Mr 21 '42

Periodic health examinations; important findings among garment workers. L. Price. Ind Med 11:369-73 Ag '42

GARMENTS

See also

Clothing and dress

Dress industry

Underwear

GARNER, Carroll A. 1889-

Sketch. por Min & Met 23:382 Jl '42

GARNETS

Mining garnet with Diesel power; Barton mines corporation. il Diesel Power 19:1027-9 D '41

GARNISHMENT. See Attachment and garnishment

GARSPAR

Investigations at Mellon institute 1941-42; garspar, garcolite, and gartex. Chem & Eng N 20:448 Ap 10 '42

GARY, Indiana

What happens to sales after the merchandise gets to wholesaler? check-up revealed that 80% of wholesale buying was done outside of city. Sales Management 51:60, 62 N 1 '42

Sewerage

Operation of the Gary sewage treatment plant in 1941. L. R. Howson and W. W. Mathews. flow diag il Water Works & Sewerage 89:229-37 Je '42

Sewage and garbage disposal plant. W. P. Cottingham. il Civil Eng 12:305-8 Je '42

GARZÓN NIETO, Julio

Award of the Charles P. Daly gold medal of the American geographical society. Science 94:580-1 D 19 '41

GAS

Changes in composition of manufactured gas in contact with soil; investigation in connection with leaking mains. J. F. Anthes. Am Gas Assn Proc 1941:445

Flame hardening with city gas. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:871-4, 947-9, 1012-14, 1088-90 Ag 20-O 1 '42

Gas service manual (cont). W. L. Riehl. diags Gas Age 88:34 N 20; 31-2+ D 4; 30+ D 18 '41; 89:27 Ja 1; 25-7 Ja 29; 29-30 F 12; 25-8 F 26; 33-4, 36+ Mr 12; 23-4 Je 18; 90:25-9 Jl 30; 24-6 Ag 13; 26-8 Ag 27; 29-30 S 10; 27-8 S 24; 27-8, 36 D 31 '42

See also

Acetylene

Blast furnace gas

Butane

Coal distillation

Coke-oven gas

Distillation

Flue gas

Gas, Natural

Gas, Producer

Gas, Water

Gas analysis

Gas appliances

Gas as fuel

Gas companies

Gas industry

Gas manufacture

Gas producers

Gases

Liquefied petroleum gas

Propane

Sewage sludge—Gas production

Analysis

See Gas analysis

Apparatus

See Gases—Apparatus

Calorific value

Calorific value of gas; yesterday, to-day, and to-morrow. J. Jamieson. Gas J (Lond) 236:426, 431 D 17 '41; Discussion. 237:21-2+, 64, 98+ Ja 7-21 '42

Fuel oil and B.t.u. standards. W. E. Slade. Am Gas J 157:29-31 Jl '42

Reduction in declared calorific value; its implications under wartime conditions. E. G. Stewart. Gas J (Lond) 239:21-2+ Jl 1 '42 (to be cont)

Standards of calorific value for gas. G. E. Foxwell. Gas J (Lond) 237:59-60, 63 Ja 14 '42

Compression

See Gas, Natural—Compression

Dehydration

See also

Gas, Natural—Dehydration

GAS—*Continued*

Gum formation

Method for the determination of the quantity of suspended material in gas. C. W. Wilson. bibliog il diag Am Gas Assn Mo 24:325-7 S '42

Laws and regulations

See also
Gas, Natural—Laws and regulations
Gas companies—Law

Manufacture

See Gas, Water—Manufacture; Gas manufacture; Gas works

Moisture content

Determination of water vapor in gaseous fuels. A. W. Gauger, F. C. Todd and W. J. Wiseman, jr. Am Gas Assn Proc 1941: 451-2

Studies on the measurement of water vapor in gases. F. C. Todd and A. W. Gauger. il diags Am Soc T M Proc 41:1134-51 '41

Standards

Fuel oil and B.t.u. standards. W. E. Slade. Am. Gas J 157:29-31 Jl '42

Gas quality; report of the committee of enquiry on gas quality. Gas J (Lond) 240: 22, 25 O 7 '42; Discussion. 240:93-4 O 21 '42

Reduction in declared calorific value; its implications under wartime conditions. E. G. Stewart. Gas J (Lond) 239:21-2+ Jl 1 '42

Standards of calorific value for gas. G. E. Foxwell. Gas J (Lond) 237:59-60, 63 Ja 14 '42

Sulfur content

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41; Same cond. Gas J (Lond) 237:130, 133-4 Ja 28 '42

Modified test for sulphur compounds in town gas. J. M. Grundy. Gas J (Lond) 236:281 N 19 '41; Same cond. Am Gas J 156:16-17 Mr '42

Sulphur removal from gas; report of committee, Institution of gas engineers. bibliog Gas J (Lond) 240:58+ O 14 '42

See also
Gas, Natural—Sulfur content

Theft

Unaccounted for! accounting department functions in gas diversion cases. J. B. McKelvey. Am Gas Assn Mo 24:24-5+ Ja '42

GAS, Bottled

Propane replacing butane in bottle gases. Oil & Gas J 41:38 N 5 '42

See also
Liquefied petroleum gas

GAS, Natural

Abstracts of papers before the American gas association meeting, New Orleans, La., May 4-7. Oil & Gas J 40:57, 59-60 My 7 '42

Biennial report of Petroleum and natural-gas division, U.S. Bureau of mines, fiscal years 1940 and 1941. R. A. Cattell and others. bibliog pls U S Bur Mines Rep of Invest 3616:1-57 '42

Brief descriptions of leading natural gas companies. O. Ely. Pub Util 29:232-4, 298-9, 363-5, 434-6, 562-3, 694-6, 759-61; 30:41-2, 107-9, 301-2 F 12-Mr 26, Ap 23, My 21-Je 4, Jl 2-16, Ag 27 '42

Bringing of natural gas to war plants. il Gas Age 90:46-7 O 8 '42

Calculating gas deviation by pseudocritical method. G. M. Stearns. Oil & Gas J 40: 73-4 My 7 '42

Combustion in Diesel engines; effect of adding gaseous combustibles to the intake air. M. A. Elliott and L. B. Berger. bibliog Ind & Eng Chem 34:1065-71 S '42

Development, operation and valuation of oil and gas properties; flow of homogeneous fluids; water in virgin oil and gas pays. P. J. Jones. bibliog Oil & Gas J 41:35-6+ Je 18 '42

Deviation of natural gas from the law of perfect gases. G. M. Stearns. Oil & Gas J 40:78 Ap 23 '42

Formaldehyde from natural gas; flow chart. il Chem & Met Eng 49:154-7 S '42

Formaldehyde from natural gas; with patent list. H. A. Levey. bibliog il Chem Ind 50: 204-6 F '42

Future role of natural gas in refining. G. Egloff. Nat Pet N 34:16 O 7 '42

Investigations at Mellon institute 1941-42; contributions of value to natural gas technology. il Chem & Eng N 20:450-1 Ap 10 '42

Natural gas derivatives can be converted into wide range of wartime chemicals. G. Egloff. il Nat Pet N 34 pt 2:R343-7 O 28 '42

Nitration of methane. T. Boyd and H. B. Hass. bibliog diags Ind & Eng Chem 34: 300-4 Mr '42

Preparation of methyl chloride from natural gas; research work of a Russian laboratory. Y. G. Mamedaliev and others. bibliog plan Oil & Gas J 40:33-5 F 12 '42

Proceedings of the tenth Pennsylvania mineral industries conference, Petroleum and natural gas section, held at the Pennsylvania state college, May 2-3, 1941. (Mineral industries exp. station bul. 33) 116p Pennsylvania state college, School of mineral industries, State College, Pa. '41

Pure nitrogen natural gas well. H. J. Cook. Science 95:223-4 F 27 '42

Reduction of metallic ores by natural gas; abstract. F. H. Dotterweich. Franklin Inst J 234:166 Ag '42

Texas seeks funds to make rubber from casinghead gas. Nat Pet N 34:6 Ja 7 '42

Thermal properties of a wet gas. G. G. Brown and F. Kurata. Pet Eng 13:23-8 D '41

Thermodynamic properties of light hydrocarbons. D. E. Holcomb and G. G. Brown. bibliog diags Ind & Eng Chem 34:590-602 My '42

See also
Carbon black
Ethane
Gas as fuel—Natural gas
Gas mixing
Gasoline, Natural
Liquefied petroleum gas
Methane
Petroleum

also American gas association—Natural gas section; Columbia gas and electric corporation

Acidation of wells

Chemical reconditioning of old wells; acid jet gun has many applications. J. H. Adkison. il diags Pet Eng 13:158, 160+ My '42

Advertising

Use it wisely! is conservation theme of natural gas campaign. il Am Gas Assn Mo 24:167 My '42

Analysis

Heating value by gas analysis. G. M. Stearns. Oil & Gas J 41:49 S 3 '42

Change over

Revenue recovery after a changeover. C. V. Sorenson. Gas Age 89:24-8 Ap 23 '42

Compression

Application of back-pressure tests to gathering systems. J. W. Ferguson and M. F. Shaffer. diag Oil & Gas J 41:39-42 Je 4 '42

Compressor station equipped with radiator cooling system. C. L. Moore. il Pet Eng 13: 79-80 Ag '42

Developments in maintaining compressor-station equipment. W. E. Nestor and G. H. McKay. il Oil & Gas J 41:123+ S 24 '42

Griffin-New Harmony operation a cooperative success; project involves gathering of gas produced with oil in three fields; compression, extraction and stabilization of liquids; and dehydration and return of residue gas to producing formations. H. W. Harts; C. Frye. flow diag il diag maps Oil & Gas J 41:59-62+ O 29 '42

GAS, Natural—Compression—*Continued*

High-pressure gas measurement. D. L. Katz, T. A. Matthews and C. H. Roland. Pet Eng 13:82+ S; 14:54, 56, 58 O; 58, 60, 62+ D '42

Machine shop plays important role in maintaining compressor station equipment. W. E. Nestor and G. H. McKay. il Pet Eng (Annual no) 13:136, 139-40 [Jl] '42

Natural gas cycling industry expands with valuable by-products. F. H. Dotterweich. bibliog il Am Gas J 156:40-1+ My '42

Operation of Gulf Coast field is aided by gas-cycling program. F. L. Singleton. il Oil & Gas J 41:113-14 Je 25 '42

Reservoir pressures at Rincon stabilized by gas return. N. Williams. il diag Oil & Gas J 41:39-40 S 10 '42

Suggested standard method for calculation of high-pressure gas measurements. D. L. Katz. bibliog Nat Pet N 34:R180-2+ Je 10 '42

Testing of high-pressure gases. C. H. Gee. flow diag il Oil & Gas J 41:62+ My 14 '42

Transmitting natural gas 1155 miles, from Amarillo field to Detroit. C. H. Vivian. il Comp Air M 47:6629-31 Ja '42

Conditioning

Delivering dry gases in old manufactured gas systems; natural gas and butane-air gas. O. L. Kowalke. Gas Age 90:13-14+ Jl 30 '42

Gas purification plant in Magnolia field, Arkansas. F. H. Love. flow diag il Pet Eng 13:31-2 N '41

Natural gas conditioning equipment and methods. E. C. Kollock. il diags Am Gas Assn Proc 1941:526-42

Treating makes Arkansas sour gas usable by industry. R. M. Sanford. il map Oil & Gas J 40:32-3 N 13 '41

Conservation

Arkansas' oil and gas industry managed on engineering basis. A. M. Crowell. il Pet Eng (Annual no) 13:55-6+ [Jl] '42

Griffin operation incorporates new conservation principles. C. Frye. il diag map Oil & Gas J 41:69, 71-2+ O 29 '42

Note on conservation. E. L. DeGolyer. Pet Eng 13:58-9 Je '42

Our joint war job. E. H. Poe. Gas Age 90:30+ O 22 '42; Same. Am Gas J 157:20-1 N '42

See also
Gas, Natural—Recycling

Dehydration

Dehydrating liquids and gases with granular adsorbents; Florite, alumina and silica gel. R. G. Capell and R. C. Amero. flow sheets Oil & Gas J 41:37-9 Je 18 '42

Our experiences in gas dehydration. B. B. Nichols. flow diag il Gas Age 88:25-6 D 4 '41

Pipe-line program includes installation of dehydration plants. F. H. Love. il Pet Eng 13:46, 48 S '42

Practical problems in dehydration plants, design and operation. T. S. Bacon. il diag Gas Age 89:17-20 My 21 '42

Distillate wells

Arkansas Smackover lime pools have large sour-gas reserves. Oil & Gas J 40:250+ Mr 26 '42

Construction and operating features of east Texas cycling plant. F. H. Love. il Pet Eng 13:31-2, 34 Ap '42

Cycling plant converted from refrigeration to absorption process. C. C. Pryor. il Pet Eng 13:50 Mr '42

Economics of design and operation for pressure maintenance and condensate recovery. E. O. Bennett, C. R. Williams and G. O. Kimmell. diags Pet Eng (Annual no) 13:99+ [Jl] '42

Flexibility and efficiency of two-zone completions proved in condensate field. W. R. Brown. il diags Pet Eng 13:66+ F '42

Forum session: Is unified pressure control essential to oil recovery; the Paloma plan? American institute of mining and metallurgical engineers, Petroleum division. Oil & Gas J 40:37+ N 13 '41

Geology and development; Paloma section; abstract. J. T. Wood, jr. diag Oil & Gas J 40:40 N 13 '41

La Gloria condensate recovery plant unusual joint enterprise. N. Williams. il map Oil & Gas J 40:30-2+ Ja 1 '42

Method of testing gas from high-pressure wells. il Oil & Gas J 41:42 S 17 '42

Minimum use made of critical materials in building plant; condensate-recovery and gas-cycling plant, American liberty oil co. N. Williams. flow diag il Oil & Gas J 41:23-4, 32 Jl 9 '42

Natural gas cycling industry expands with valuable by-products. F. H. Dotterweich. bibliog il Am Gas J 156:40-1+ My '42

Natural gasoline association tests methods of sampling distillate. il Oil & Gas J 41:28 N 5 '42

New Grapeland plant features flexibility in operation; condensate-recovery and gas-cycling. W. C. Westbrook. il Oil & Gas J 40:33-4, 36-7 Ap 16 '42

Operation of Gulf Coast field is aided by gas-cycling program. F. L. Singleton. il Oil & Gas J 41:113-14 Je 25 '42

Progress in reservoir technology. M. Muskat. Pet Eng 14:35-6 O '42

Proper production methods. R. O. Garrett. flow diag Oil & Gas J 40:56-7 My '42

Simplified method of processing characterizes cycling plant. F. H. Love. il Pet Eng (Annual no) 13:33-4 [Jl] '42

South Jennings distillate plant features high-pressure control. N. Williams. flow diag il Oil & Gas J 40:39, 41-2+ Mr 19 '42

Specific volumes and phase-boundary properties of separator-gas and liquid-hydrocarbon mixtures. K. Eilerts and R. V. Smith. il diags U S Bur Mines Rep of Invest 3642:1-57 '42

Subsurface flow in condensate sands. J. Breaker. Pet Eng 13:80, 82, 84 Ja '42

Subsurface pressure regulation of high-pressure condensate wells. J. O. Farmer. diag Oil & Gas J 40:67-8+ F 26 '42

Suggested standard method for calculation of high-pressure gas measurements. D. L. Katz. bibliog Nat Pet N 34:R180-2+ Je 10 '42

Survey of condensate-recovery operations; company and plant address, listed by states. Oil & Gas J 41:89-90 My 14 '42

Testing of high-pressure gases. C. H. Gee. flow diag il Oil & Gas J 41:62+ My 14 '42

Bibliography

Distillate wells. 5p Tulsa public lib, Technical dept, Tulsa, Okla. '42

Finance

Natural gas financing; abstract. E. L. Love. Bankers M 145:269-70 S '42

Fuel use

See Gas as fuel—Natural gas

Geology

Geology and development; Paloma section; abstract. J. T. Wood, jr. diag Oil & Gas J 40:40 N 13 '41

New interpretation of some laccolithic mountains and its possible bearing on structural traps for oil and gas. C. B. Hunt. bibliog diags Am Assn Pet Geologists Bul 26:197-203 F '42

Hydrates

Eliminating hydrate formation in south Texas. F. H. Dotterweich. diag Pet Eng 13:83-4, 87 Mr '42

Hydrocarbon hydrates. I. C. Bechtold. bibliog Oil & Gas J 40:193-4+ Ap 30 '42; Same. Pet Eng 13:57, 60, 62, 64 Ap '42; Abstract. Chem & Met Eng 49:136-7 My '42

GAS, Natural—Hydrates—*Continued*

Natural-gas hydrates. D. B. Carson and D. L. Katz. bibliog diags Gas Age 89:15-18+ F 26 '42

See also
Gas, Natural— Dehydration

Laws and regulations

Dry and wet gas price ceilings placed under petroleum regulation 88 by OPA. Oil & Gas J 41:40 O 8 '42; Nat Pet N 34:18 O 7 '42; Comm & Fin Chr 156:1368 O 15 '42; Gas Age 90:38+ O 22 '42

Ontario gas restrictions. Gas Age 89:32 Mr 26 '42

Public utility regulation: a new chapter; decision of Supreme court in Federal power commission v. Natural gas pipeline co. R. W. Harbeson. bibliog Harvard Business R 20 no 4:496-507 [Jl] '42

Review of statutory regulations in the carbon-black industry. L. Moses. bibliog Oil & Gas J 40:30-1 Ap 9 '42

Supreme court upholds Natural gas act on Federal commission's rate-making power. Comm & Fin Chr 155:1243 Mr 26 '42

Use of gas curbed. Business Week p37+ F 21 '42

WPB order would limit uses and customers of natural gas. Oil & Gas J 40:23-4 F 5 '42

War production board restricts use of natural gas. Am Gas Assn Mo 24:86 Mr '42

See also
Gas, Natural—Rates

Liquefaction

East Ohio to up liquid gas supply. Gas Age 90:74 Jl 16 '42

Liquefaction of natural gas for public supply. il diag Engineer 173:432-5 My 22 '42

Liquefied natural gas stored in tanks at -258F. W. F. Schaphorst. il Heat & Ven 39:58 Jl '42

Welded liquefied natural gas storage tanks. J. O. Jackson. il diag Welding J 20:833-6 D '41

See also
Gasoline, Natural—Manufacture

Measurement

High-pressure gas measurement. D. L. Katz, T. A. Matthews and C. H. Roland. Pet Eng 13:82+ S; 14:54, 56, 58 O; 58, 60, 62+ D '42

Measuring natural gas under extremely high pressure. R. O. Cox. il Gas Age 90:41-2+ O 8 '42

Proposed supplement no. 2 to API code no. 50-A: natural gas (tentative); recommended practices for measuring gas at pressures above 1,000 psi. diags Am Pet Inst Proc 22(4):61-2 '41

Suggested standard method for calculation of high-pressure gas measurements. D. L. Katz. bibliog Nat Pet N 34:R180-2+ Je 10 '42

Value and accuracy of field measurements. C. J. May and R. Pike. Inst Pet J 28:133-40 Jl '42

See also
Gas, Natural—Pressure measurement
Gas, Natural—Production estimates

Merchandizing

Revenue recovery after a changeover. C. V. Sorenson. Gas Age 89:24-8 Ap 23 '42

Moisture content

Device helps to prevent gas line freeze-ups. Steel 109:74 D 1 '41

Dew-point recorder safeguards gas line against freezing. J. A. Setter. diag Gas Age 88:31+ N 20 '41; Same. Electronics 14:72+ N '41; Same. Chem & Met Eng 49: 132 F '42; Same. Pet Eng 13:134 F '42; Same. Oil & Gas J 41:90 S 24 '42; Same cond. Refrig Eng 43:180 Mr '42

Drip equipment for natural gas transmission lines. G. Cash. diags Oil & Gas J 41:107-8 S 24 '42

Humidification system. L. W. Tuttle. diag Am Gas Assn Proc 1941:543-4

Studies on the measurement of water vapor in gases. F. C. Todd and A. W. Gauger. il diags Am Soc T M Proc 41:1134-51 '41

Mud fluids

Drilling-mud problems on deep wells; abstract. C. A. Sullins. Oil & Gas J 40:60 My 7 '42

Odorizing

Anti-orifice plate for odorizing gas. J. F. Putnam. diags Gas Age 89:22 F 12 '42

Delivering dry gases in old manufactured gas systems; natural gas and butane-air gas. O. L. Kowalke. Gas Age 90:14 Jl 30 '42

Natural gas conditioning equipment and methods. E. C. Kollock. il diags Am Gas Assn Proc 1941:526-42

Odorizing natural gas. flow diag Oil & Gas J 40:52 F 5 '42

Peak load

Alternative and auxiliary gases from liquefied petroleum products. C. G. Segeler. Am Gas Assn Proc 1941:100-21 bibliog(p110-11); Same. Am Gas J 155:49-53 N; 25-8, 52-4 bibliog(p53-4) D '41

Maintaining gas manufacturing plants for peak load and emergency use in a city using natural gas. G. T. Bentley. map Am Gas Assn Proc 1941:572-7; Same. Gas Age 87:20-3+ Je '41

Standby equipment and policies. W. T. Ivey. il Gas Age 89:20-1+ Mr 26 '42

Pipe lines

Application of back-pressure tests to gathering systems. J. W. Ferguson and M. F. Shaffer. diag Oil & Gas J 41:39-42 Je 4 '42

California gas line to be converted to crude service. Oil & Gas J 40:21-2 Ap 23 '42

Complex pipe-line systems. G. M. Stearns. Oil & Gas J 41:205 Je 25; 39 Jl 2 '42

Computing flow of gas through transmission lines; gas flow in simple systems. G. M. Stearns. Oil & Gas J 41:71-2 My 28 '42

Denver mountain service during pipe-line break. Gas Age 89:20 My 21 '42

Determination of efficiency of a cathodic-protection system. H. C. Gear. Gas Age 88:26-8 D 18 '41

Dew-point recorder utilizing photo-electric relay safeguards gas line against freezing. J. A. Setter. diag Pet Eng 13:134 F '42

Drip equipment for natural gas transmission lines. G. Cash. diags Oil & Gas J 41:107-8 S 24 '42

Economics of gas pipe-line design; with cost data. F. W. Laverty and others. bibliog Gas Age 90:22-6+ Jl 2 '42

Electric welding practices in the gas industry. il Am Gas J 157:23-4 N '42

Eliminating hydrate formation in south Texas. F. H. Dotterweich. diag Pet Eng 13:83-4, 87 Mr '42

Emergency planning proves its worth in pipeline break; Albuquerque, New Mexico. H. L. Pinkerton. il Gas Age 89:7-9 Ja 1 '42

Expansion of pipe lines is vital to war program. P. Reed. Oil & Gas J 40:88 Ja 29 '42

Experiences with cathodic protection. G. R. Olson. il Gas Age 89:24-6+ My 21 '42

Features associated with Southern Natural 1200-pound line. C. E. Terrell. il Gas Age 89:13-15+ Je 4 '42

Federal power commission issues certificate of public convenience and necessity to United gas pipe line company. Am Gas J 157:38 S '42

Flow of natural gas in pipe lines. E. N. Kemler and N. Kulik. bibliog Gas Age 90: 20-6 S 24 '42

Forty-five days required to lay Lirette-Mobile pipeline across Lake Pontchartrain. il Am Gas J 156:28-9 My '42

Gas flow in loop systems. G. M. Stearns. Oil & Gas J 41:59 Je 4 '42

GAS, Natural—Pipe lines—*Continued*

Gas flow in branching lines. G. M. Stearns. Oil & Gas J 41:53 Je 18 '42

Gas flow in series lines. G. M. Stearns. Oil & Gas J 41:51 Je 11 '42

Internal scrapers adapted to gas and vapor-carrying lines. R. M. Sanford. il Oil & Gas J 40:35, 37 F 19 '42

Lirette-Mobile pipe line completed. il Gas Age 89:20-1 Mr 12 '42

Lone Star completes Brazos River crossing. il Gas Age 89:20 Ja 29 '42

Long-distance pressure controls and gauges. E. C. McAninch. Gas Age 89:15-17+ Ja 1 '42

Maintenance of natural gas transmission lines. J. H. Lang. diags Oil & Gas J 41:134+ S 24 '42

Marine pipe-line construction methods employed in Lake Pontchartrain crossing. W. B. Poor. il diag map Pet Eng 13:90+ D '41

Need for increased gas supply prompts line construction; Oklahoma natural gas company. R. W. Parker. il Pet Eng 14:31-2 O '42

Oklahoma Natural completes extension to system. C. U. Daniels. il Oil & Gas J 41:108 S 24 '42

Old pipe used for gas line in coastal area. F. L. Singleton. il Oil & Gas J 41:204+ S 24 '42

Operating experience with automatic-closing valves in a transmission system. D. C. Palm. diag Gas Age 89:27-8+ My 21 '42; Excerpt. Oil & Gas J 40:59 My 7 '42

Patrolling of natural-gas pipe lines by airplane. C. B. McMahan. Gas Age 89:22-3+ My 21 '42

Pipe line broken by flood. H. Padgett. Am Gas J 156:24-5 Je '42

Pipe line laid through rough terrain of West Virginia. F. H. Love. il Pet Eng 13:75-7 Ag '42

Pipe-line program includes installation of dehydration plants. F. H. Love. il Pet Eng 13:46, 48 S '42

Pipe protection on Gulf coast extended to field flow lines. N. Williams. il Oil & Gas J 41:133-4 Je 25 '42

Problems presented by water crossings on short line. il Oil & Gas J 41:142 S 24 '42

Propose gas line from south Texas into Mexico. B. M. Smith. Pet Eng 13:96 Ap '42

Protecting transmission system against surface subsidence. J. Garrett. il diags Oil & Gas J 41:145, 148+ S 24 '42

Reconditioning steel mains in Detroit; abstract. R. B. Allen. Oil & Gas J 40:60 My 7 '42

Short gas line uses unique suspension method. E. Chesnutt. il Oil & Gas J 41:49 O 29 '42

Swamp buggy at work; laying natural gas line. H. Miller. il Gas Age 89:44-5+ My 7 '42

Temperatures of natural-gas pipe lines and seasonal variations of underground temperatures. W. M. Deaton and E. M. Frost, jr. diags map U S Bur Mines Rep of Invest 3590:1-6 '41; Same cond. Am Gas Assn Mo 24:15-19 Ja '42; Same cond. Gas Age 89:18-23 Ja 1 '42

Transmitting natural gas 1155 miles, from Amarillo field to Detroit. C. H. Vivian. il plan map Comp Air M 47:6627-34 Ja '42

Uncle Sam ordered gas quick! laying pipe in swamps and deep water. K. Fellows. il Gas Age 90:50-1 O 8 '42

United Gas installs total of 22 hookups in 19 hours. H. F. Carr. il Oil & Gas J 41:189-90 S 24 '42

United gas pipe line co. constructs Lirette-Mobile project. W. B. Poor. il map Gas Age 89:11-13+ Ja 29 '42

World's longest underwater natural gas pipeline completed; Louisiana gas fields to Mobile. il Manuf Rec 111:24-5+ Mr '42

See also Panhandle eastern pipe line company

Pressure measurement

Calculation of pressure exerted by a column of gas in a well. G. M. Stearns. Oil & Gas J 41:80 My 14 '42

Corrected gas-column pressure. G. M. Stearns. Oil & Gas J 41:55 My 21 '42

Production estimates

Application of back-pressure tests to gathering systems. J. W. Ferguson and M. F. Shaffer. diag Oil & Gas J 41:39-42 Je 4 '42

Calculation of back-pressure tests. J. W. Ferguson. Oil & Gas J 40:52 My 7 '42

Calculation of gas reserves. G. M. Stearns. Oil & Gas J 40:201 Ap 30 '42

Calculation of gas reserves by pressure-volume method. G. M. Stearns. Oil & Gas J 41:79 My 14 '42

Flow of homogeneous fluids through linear systems. P. J. Jones. Oil & Gas J 41:53-4 Je 4 '42

Flow of homogeneous fluids through radial systems. P. J. Jones. Oil & Gas J 41:35-7 Je 11 '42

Production methods

Flexibility and efficiency of two-zone completions proved in condensate field. W. R. Brown. il diags Pet Eng 13:66+ F '42

Multiple-zone completions of oil and gas wells. E. O. Bennett. Pet Eng 13:19-20 Jl '42

Proper production methods. R. O. Garrett. flow diag Oil & Gas J 40:56-7 My 7 '42

Recovery from gas reservoirs. P. J. Jones. bibliog Oil & Gas J 41:44, 47+ Jl 16; 35-6 Jl 23 '42

Remedial work on gas wells as practiced in Texas Panhandle; abstract. L. M. Batten. Oil & Gas J 40:59-60 My 7 '42

See also
Gas, Natural—Recycling

Prospecting

Resistivity method of locating oil and gas pays. J. L. Harper. Oil & Gas J 41:64-6 Je 11 '42

Rates

Appeal commercial and domestic rate reduction; Colorado interstate gas co., Canadian River gas co. and Colorado-Wyoming gas co. Gas Age 90:34 Ag 13 '42

Expense of unauthorized type of gas eliminated in rate making. Pub Util 28:786-7 D 4 '41

FPC outlines policy on rates of Panhandle Eastern; war taxes may not be passed on to consumers. Gas Age 90:13-14 O 22 '42

Federal power commission receives proposed rate schedules from Natural gas pipeline company of America. Am Gas J 157:12 S '42

Has the Supreme court torpedoed Smyth v. Ames? decision of the U.S. Supreme court in Natural gas pipeline company v. Federal power commission. Pub Util 29:505-8 Ap 9 '42

In the matter of Panhandle eastern pipe line company, Michigan gas transmission corporation, and Illinois natural gas company; Federal power commission opinion. J Account 74:478-9 N '42

Public utility regulation: a new chapter; decision of Supreme court in Federal power commission v. Natural gas pipeline co. R. W. Harbeson. bibliog Harvard Business R 20 no 4:496-507 [Jl] '42

Supreme court upholds Natural gas act on Federal commission's rate-making power. Comm & Fin Chr 155:1243 Mr 26 '42

United States Supreme court redeems itself; Natural gas pipeline company case. M. G. Glaeser. J Land & Pub Util Econ 18:146-54 My '42

Recycling

Construction and operating features of east Texas cycling plant. F. H. Love. il Pet Eng 13:31-2, 34 Ap '42

GAS, Natural—Recycling—*Continued*

Cycling plant converted from refrigeration to absorption process. C. C. Pryor. il Pet Eng 13:50+ Mr '42

Design and operation of cycling plant absorption systems. E. T. Neill. il Pet Eng 13:56+ Ag '42

Economics of design and operation for pressure maintenance and condensate recovery. E. O. Bennett, C. R. Williams and G. O. Kimmell. diags Pet Eng (Annual no) 13: 99+ [Jl] '42

Francitas cycling plant extracts condensate at high pressure. F. H. Love. il Pet Eng 13:72, 74+ Ja '42

Gas-cycling increases recovery. N. Williams. il Oil & Gas J 40:61-2+ Ap 23 '42

Griffin-New Harmony operation a cooperative success; project involves gathering of gas produced with oil in three fields; compression, extraction and stabilization of liquids; and dehydration and return of residue gas to producing formations. H. W. Harts; C. Frye. flow diag il diag maps Oil & Gas J 41:59-62+ O 29 '42

La Gloria condensate recovery plant unusual joint enterprise. N. Williams. il map Oil & Gas J 40:30-2+ Ja 1 '42

Measuring natural gas under extremely high pressure. R. O. Cox. il Gas Age 90:41-2+ O 8 '42

Minimum use made of critical materials in building plant; condensate-recovery and gas-cycling plant, American liberty oil co. N. Williams. flow diag il Oil & Gas J 41:23-4, 32 Jl 9 '42

Natural gas cycling course at Texas college of arts and industries. F. H. Dotterweich. Pet Eng 13:88+ Ag '42

Natural gas cycling industry expands with valuable by-products. F. H. Dotterweich. bibliog il Am Gas J 156:40-1+ My '42

New Grapeland plant features flexibility in operation; condensate-recovery and gas-cycling. W. C. Westbrook. il Oil & Gas J 40:33-4, 36-7 Ap 16 '42

Operation of Gulf Coast field is aided by gas-cycling program. F. L. Singleton. il Oil & Gas J 41:113-14 Je 25 '42

Reservoir pressures at Rincon stabilized by gas return. N. Williams. il diag Oil & Gas J 41:39-40 S 10 '42

Simplified method of processing characterizes cycling plant. F. H. Love. il Pet Eng (Annual no) 13:33-4 [Jl] '42

South Jennings distillate plant features high-pressure control. N. Williams. flow diag il Oil & Gas J 40:39, 41-2+ Mr 19 '42

Statistics

Gas industries expands sales; gas revenue, 1929-1941; chart. Barron's 22:4 Ja 26 '42

Natural gas consumption reached new 1940 peak. Gas Age 89:44+ Ja 15 '42

Record demand for natural gas assured industry this year. J. P. O'Donnell. Oil & Gas J 41:78 Jl 30 '42

Storage

California to store natural gas in exhausted oil field. Gas Age 90:32 N 5 '42

East Ohio to up liquid gas supply. Gas Age 90:74 Jl 16 '42

Gas storage project started in Playa Del Rey field. L. P. Stockman. map Oil & Gas J 41:64 O 15 '42

Liquefaction of natural gas for public supply. il diag Engineer 173:432-5 My 22 '42

Liquefied natural gas stored in tanks at -258F. W. F. Schaphorst. il Heat & Ven 39:58 Jl '42

Playa Del Ray field may be used to store summer surplus gas production. Oil & Gas J 41:28 S 3 '42

Reinterred gas; use of old oil field as storage reservoir proposed. Business Week p62+ S 26 '42

Welded liquefied natural gas storage tanks. J. O. Jackson. il diag Welding J 20:833-6 D '41

Sulfur content

Arkansas commission surveying Magnolia field to learn extent of hydrogen sulfide damage. Oil & Gas J 41:16 Ag 6 '42

Casing corrosion in oil fields producing sour gas. T. D. Bailey and A. M. Crowell. diags map Oil & Gas J 41:31-4 O 15 '42

High H_2S natural gas purified in Arkansas plants; Girbotol process. il Gas Age 89:52+ My 7 '42

Sulphur from Arkansas sour gas; removal of hydrogen sulfide by Girbotol process. J. A. Lee. il diag Chem & Met Eng 49: 80-2 Je '42

Treating makes Arkansas sour gas usable by industry. R. M. Sanford. il map Oil & Gas J 40:32-3 N 13 '41

Testing

Heating-value determination with calorimeter. G. M. Stearns. Oil & Gas J 41:217-18 S 24 '42

Method of testing gas from high-pressure wells. il Oil & Gas J 41:42 S 17 '42

Natural gasoline association tests methods of sampling distillate. il Oil & Gas J 41:28 N 5 '42

Servicing recording calorimeter used to determine heating value of gas. R. O. Cox. Pet Eng 13:69-70, 72 S '42

Testing of high-pressure gases. C. H. Gee. flow diag il Oil & Gas J 41:62+ My 14 '42

Unit operation of pools

Forum session: Is unified pressure control essential to oil recovery; the Paloma plan? American institute of mining and metallurgical engineers, Petroleum division. Oil & Gas J 40:37+ N 13 '41

Valuation

Notes on appraisals. D. Donoghue. Am Assn Pet Geologists Bul 26:1283-9 Jl '42

Well cementing

Cements for oil and gas wells. L. C. Uren. bibliog Pet Eng 13:23-6 Ag; 51, 53-4+ S '42

Well control

High gas pressures controlled at Alice. N. Williams. Oil & Gas J 40:229-30 Mr 26 '42

Well drilling

Clinton sand drilling and production in central Ohio. H. N. Ross. Oil & Gas J 40: 55-6 My 7 '42

High gas pressures controlled at Alice. N. Williams. Oil & Gas J 40:229-30 Mr 26 '42

Well liners

Running liners and production of gas through liners in the Panhandle field; abstract. C. I. Galloup. Oil & Gas J 40:57 My 7 '42

Well spacing

WPB allows closer gas well spacing in some sections. Nat Pet N 34:24 Je 24 '42

Alabama

Well logs of Alabama; with the oil and gas conservation law of Alabama, and the rules and regulations of the State oil and gas board. E. Bowles. 357p Alabama geological survey, University, Ala. '41

Appalachian region

Geochemistry of natural gas in Appalachian province. P. H. Price and A. J. W. Headlee. maps Am Assn Pet Geologists Bul 26:19-35 Ja '42

Arkansas

Arkansas commission hears plea for natural-gas development. Oil & Gas J 40:20 Mr 19 '42

Arkansas commission surveying Magnolia field to learn extent of hydrogen sulfide damage. Oil & Gas J 41:16 Ag 6 '42

Arkansas' oil and gas industry managed on engineering basis. A. M. Crowell. il Pet Eng (Annual no) 13:55-6+ [Jl] '42

GAS, Natural—Arkansas—*Continued*

Arkansas Smackover lime pools have large sour-gas reserves. Oil & Gas J 40:250+ Mr 26 '42

Arkansas sour gas to be used in alumina and aluminum plants. Gas Age 89:30 Mr 26 '42

Sulphur from Arkansas sour gas; removal of hydrogen sulfide by Girbotol process. J. A. Lee. il diag Chem & Met Eng 49:80-2 Je '42

Treating makes Arkansas sour gas usable by industry. R. M. Sanford. il map Oil & Gas J 40:32-3 N 13 '41

California

Forum session: Is unified pressure control essential to oil recovery; the Paloma plan? American institute of mining and metallurgical engineers, Petroleum division. Oil & Gas J 40:37, 40-1, 43-4 N 13 '41

Gas storage project started in Playa Del Rey field. L. P. Stockman. map Oil & Gas J 41:64 O 15 '42

Geology and development; Paloma section; abstract. J. T. Wood, jr. diag Oil & Gas J 40:40 N 13 '41

Natural gas, an important factor in California's economy. W. A. Sawdon. Pet Eng 13:80, 82 Jl '42

1941 supplement to Sutter (Marysville) Buttes development, Sutter county. W. Stalder. diag map Am Assn Pet Geologists Bul 26:852-6 My '42

Illinois

Griffin-New Harmony operation a cooperative success. H. W. Harts. flow diag il map Oil & Gas J 41:59-62+ O 29 '42

Indiana

Griffin operation incorporates new conservation principles. C. Frye. il diag map Oil & Gas J 41:69, 71-2+ O 29 '42

Kansas

Exploration for oil and gas in western Kansas during 1940. W. A. Ver Wiebe. 109p Kansas. Geological survey, Univ. of Kansas, Lawrence '41

McLouth gas and oil field, Jefferson and Leavenworth counties. W. Lee. Am Assn Pet Geologists Bul 26:133-5 Ja '42

Michigan, Supply to

Defense problems in the Great Lakes region. J. W. Batten. Gas Age 88:11-12+ N 20 '41

Montana

Test on Cedar Creek anticline, southeastern Montana. O. A. Seager. Am Assn Pet Geologists Bul 26:861-4 My '42

New Orleans, Supply to

New Orleans welcomes natural gas men; natural gas supply and stand-by plant. A. B. Paterson. il Gas Age 89:32-3, 56-7 My 7 '42

Ohio

Clinton sand drilling and production in central Ohio. H. N. Ross. Oil & Gas J 40:55-6 My 7 '42

Oklahoma

Subsurface geology and oil and gas resources of Osage county; parts of township 20 north, ranges 9 to 10 east, and township 21 north, ranges 8 and 9 east, and all of township 21 north, range 10 east. C. T. Kirk and others. U S Geol S Bul 900-H:269-302; pa 35c Supt. of doc. '41

Subsurface geology and oil and gas resources of Osage county; townships 20 and 21 north, ranges 11 and 12 east. W. R. Dillard, N. W. Bass and C. T. Kirk. fold map U S Geol S Bul 900-G:237-68, pl 7; pa 30c Supt. of doc. '41

Subsurface geology and oil and gas resources of Osage county; townships 23 and 24 north, range 7 east. N. W. Bass and others. fold map U S Geol S Bul 900-I:303-19, pl 9; pa 25c Supt. of doc. '41

Pittsburgh, Supply to

How Pittsburgh is promoting saving of fuel. il Gas Age 90:49-50 O 8 '42

Texas

Francitas cycling plant extracts condensate at high pressure. F. H. Love. il Pet Eng 13:72, 74+ Ja '42

La Gloria condensate recovery plant unusual joint enterprise. N. Williams. il map Oil & Gas J 40:30-2+ Ja 1 '42

Payton pool, Pecos and Ward counties. R. E. Gile. maps Am Assn Pet Geologists Bul 26:1632-46 O '42

Subsurface geology of Sewell-Eddleman area, Young county, Texas. P. L. Applin and R. F. Imbt. pls diags Am Assn Pet Geologists Bul 26:204-16 F '42

United States

American gas association, Natural gas section meeting, Atlantic City, Oct. 20. Am Gas Assn Mo 23:386-90 N '41

Availability of gas pertinent to study of supply and reserves. R. E. Davis. Oil & Gas J 41:35-7+ O 8 '42

Coal, petroleum, natural gas, and electricity in the United States, 1929-40. J. R. Bradley. U S Bur Mines Information Circ 7189: 1-26 '41

Coordinating in the war effort. P. M. Raigorodsky. Gas Age 89:34+ My 7 '42

Demand and supply of natural gas after the war. J. F. Robinson. Gas Age 90:33-6+ O 22 '42; Same abr. Am Gas Assn Mo 24:391-4 N '42; Same cond. Oil & Gas J 41:25 O 15 '42; Abstract. Pub Util 30:667-8 N 5 '42

Full war responsibility given natural gas and gasoline men. R. E. Allen. Oil & Gas J 41:36+ My 14 '42

Gas industry sets new records while planning war services. J. P. O'Donnell. Oil & Gas J 40:104 Ja 29 '42

Natural gas boom. Business Week p47-8+ F 7 '42

Natural gas in review and in prospect. J. F. Robinson. il Gas Age 89:40-1+ Ja 15 '42

Natural gas in the U.S.A.; its production, distribution, and utilization. W. B. Poor. maps Mech Eng 64:369-72 My '42

Natural gas; industry and government unite to solve war problems; meeting of Natural gas section, American gas association. Am Gas Assn Mo 24:384-6+ N '42

Natural gas industry and the war. J. F. Robinson. Am Gas J 156:9-11+ My '42

Natural gas industry at war. E. H. Poe. Gas Age 89:35-6 My 7 '42

Natural gas outlook clouded by opposing forces. H. S. Norman. Oil & Gas J 40:26-7 My 7 '42

Restrict natural gas use. Comm & Fin Chr 155:773 F 19 '42

Titanic struggle of resources. H. L. Ickes. Am Gas Assn Mo 24:209-12+ Je '42; Same cond. Am Gas J 156:18, 21-2 Je '42

War board orders and their application to the natural gas industry. M. T. Bennett. Am Gas Assn Mo 24:387-90 N '42; Same. Am Gas J 157:26-7+ N '42

War requirements in the natural gas districts; symposium. Gas Age 90:17-18+ O 22 '42

Virginia

Discovery of gas in Rockingham county, Virginia. P. H. Price. Am Assn Pet Geologists Bul 26:275 F '42

Early Grove gas field, Scott and Washington counties. P. Averitt. (Bul. 56) 50p Virginia geological survey, University, Va. '41

GAS, Oil

Degree and extent of cracking of gas oils. H. E. Ferguson. Gas Age 90:13-16 Ag 27; 24-6 S 10 '42

Methods of increasing water-gas or coal-gas capacities; producing supplementary oil gas, and using carborundum retort bottoms. R. F. Gibson. Gas Age 89:31-2 Mr 12 '42

Oil gas generating and recovery plant, Seattle gas company, Seattle, Washington. G. R. Horning. Am Gas Assn Proc 1941:443-4

See also

Liquefied petroleum gas

GAS, Producer

Alternative fuels for mechanical transport. Mech Handling 29:182-3 O '42

Alternative motor fuels. il Automotive & Aviation Ind 87:40-2 Ag 1 '42

Buses running on producer gas. Gas J (Lond) 237:430 Mr 25 '42

Champion men experiment with gas substitute; equip truck with charcoal gas unit. Paper Ind 24:682 O '42

Ersatz in the engine; motor-car users abroad resort increasingly to producer-gas equipment. N. W. Kendall. il For Comm W 8: 3-6+ Jl 18 '42

Fuels for producer-gas vehicles. Economist 141:636-7 N 22 '41

Gas generators for motorcars. Mech Eng 64: 134-5 F '42

Gas producer with wood fuel fires rotary kiln. V. J. Azbe. il diag Rock Prod 45:60, 62 Je '42

Gas producers. diag Chem Age (Lond) 47:5-8, 29-30 Jl 4-11 '42

Motor-fuel problem in Sweden. G. Lindmark. il Engineering 153:481-3, 490 Je 19 '42

Motoring sans gasoline. C. H. Vivian. il diag Comp Air M 47:6841-5 S '42

Petrol substitutes in South Africa. Engineer 174:79-80 Jl 24 '42

Practical application of gas producers to road transport; abstracts. S. G. Ward and W. J. Morison. diag Engineer 173:386-7, 405-7 My 8-15 '42; Engineering 153:418-20, 438-40 My 22-29 '42; Gas J (Lond) 238:289, 329, 421+ My 20-27, Je 10 '42

Producer-gas handling gear conserves petrol. T. K. Cordes. Mech Handling 29:181-2 O '42

Producer gas traction in Sweden. Engineer 173:538 Je 26 '42

Study of charcoal gas production with dry air blast; abstract. E. A. Kaye and A. F. Burstall. Engineering 154:255 S 25 '42

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. il Chem & Eng N 20:654-5 My 25 '42

Use of substitute motor fuels on the Continent. W. Landsberg. Engineering 153:114-15 F 6 '42

Wood charcoal in vehicle gas producers; abstract. E. A. Allcut. Engineering 153:477 Je 12 '42

Wood gas drives B. C. truck; abstract. R. M. Brown. Pulp & Pa of Can 42:737 N '41

See also

Gas producers

GAS, Sewage sludge. See Sewage sludge—Gas production

GAS, Water

Electric gas treater for removal of nitric oxide from fuel gas; Boston consolidated gas company. E. V. Harlow. il Am Gas Assn Mo 24:114-15 Mr '42

Interesting developments concerning the saving of gas oil by mixing high B.t.u. coke oven gas and blue gas. R. E. Kruger. Am Gas Assn Proc 1941:635-43; Same. Am Gas Assn Mo 24:371-5 O '42; Same cond. Gas Age 88:28-30+ D 4 '41; Excerpts. Gas J (Lond) 237:316 Mr 4 '42; Abstract. Am Gas J 155:65-6 N '41; Discussion. Am Gas Assn Proc 1941:643-5

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42

Manufacture

Cracking of petroleum hydrocarbons. L. J. Willien. Gas Age 90:13-14+ N 5 '42

Experience with nine foot reverse flow water gas machine; with cost data. G. G. Dormer. il diags Am Gas J 155:9-14 D '41

Flexibility of a small water gas set. J. M. Duffy. Am Gas J 156:23-4 F '42

Increasing capacity in water gas sets with thin-walled generator lining. R. J. Horn. diags Am Gas Assn Mo 24:216-17 Je '42; Same. Gas Age 89:17-18 Je 18 '42

Methods of increasing water-gas or coal-gas capacities; producing supplementary oil gas, and using carborundum retort bottoms. R. F. Gibson. Gas Age 89:31-2 Mr 12 '42

Operating study of the value of gasoline for gas-making purposes. W. H. Ganley and R. E. Stafford. Gas Age 90:25-7 N 5 '42

Resistance of anthracite to mechanical and thermal shock. C. C. Wright, L. L. Newman and A. W. Gauger. (Mineral industries exp. station bul. 31) 27p Pennsylvania state college, School of mineral industries, State College, Pa. '41

Selection of anthracite for water-gas operations. L. L. Newman. Gas Age 89:19-22+ Je 18 '42

Test results on the use of anthracite in heavy-oil water-gas operation at the Pottsville gas works. L. L. Newman, C. C. Wright and A. W. Gauger. (Mineral industries exp. station bul. 32) 59p Pennsylvania state college, School of mineral industries, State College, Pa. '41

Two years' experience with reversed flow machines at Portland, Me. G. R. Steere. Am Gas Assn Proc 1941:571-2

Use of anthracite in heavy oil water-gas operation at Pottsville. L. L. Newman and C. C. Wright. il Am Gas Assn Mo 24:33-7 Ja '42

Use of cheap fuel oils in a standard water gas set. G. G. Dormer. diags Am Gas J 157:11-14 Jl '42; Same, without diags. Gas Age 90:13-15 Ag 13 '42

Value of gasoline for gas-making purposes. W. H. Ganley and R. W. Stafford. Gas Age 90:9-10 Ag 27 '42; Same. Am Gas J 157:21-2 S '42; Same. Pet Eng 14:134, 136 O '42

Water gas; war problems. F. J. Pfluke. Am Gas J 157:21 N '42

GAS absorption. See Absorption

GAS analysis

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

Analyzer for one ml of respiratory gas. P. F. Scholander. diags R Sci Instr 13:27-31 Ja '42

Audit of the carbon, oxygen and hydrogen in an iron blast furnace. J. S. Fulton. Blast F & Steel Pl 30:83-8, 233-7, 339-44 Ja-Mr '42

Carbon pressure control of furnace atmospheres. J. R. Gier. il Steel 109:54+ D 22 '41

Chemical detection of war gases for civilian defense. T. F. Bradley. il diags Chem & Eng N 20:893-6 bibliog(p893) Jl 25 '42

Chemical warfare; methods of gas identification, gas-proof shelters; abstract. C. E. Beland. Can Chem & Process Ind 26:272 My '42; Same. J Chem Educ 19:364-5 Ag '42

Detection of carbon dioxide and sulfur dioxide from mixtures of carbonates and sulfites. G. B. Heisig and A. Lerner. diag Ind & Eng Chem Anal ed 13:843 N 15 '41

Determination and examination of light oil in gas. W. L. Glowacki. Am Gas Assn Proc 1941:449-50

Determination of carbon in low-carbon iron and steel; low-pressure combustion method. L. A. Wooten and W. G. Guldner. bibliog diags Ind & Eng Chem Anal ed 14: 835-8 O 15 '42

Determination of water vapor in gaseous fuels. A. W. Gauger, F. C. Todd and W. J. Wiseman, jr. Am Gas Assn Proc 1941:451-2

Device for the preparation of hydrosulfite solutions for gas analysis. L. G. Wesson. Science 94:546 D 5 '41

Gas analysis with the mass spectrometer. J. A. Hipple. il diags J Ap Phys 13:551-9 (bibliog p553, 559) S '42

Measurement of gases; electrical methods of computation and analysis. T. T. Baker. il diag Elec R (Lond) 130:41-2 Ja 9 '42

Measuring furnace atmospheres; Ranarex analyzer. F. B. Leslie. il Iron Age 149:60-2 Mr 5 '42

Method for the accurate analysis of gaseous mixtures. C. H. Bamford and R. R. Baldwin. diag Chem Soc J p26-9 Ja '42

GAS analysis—*Continued*

Methods of light hydrocarbon analysis. J. J. Savelli, W. D. Seyfried and B. M. Filbert. bibliog diags Ind & Eng Chem Anal ed 13: 868-79 D 15 '41

Microanalysis of gases; nitric oxide-hydrogen, nitric oxide-nitrogen, and nitrous oxide-ammonia mixtures. R. N. Smith and P. A. Leighton. diags Ind & Eng Chem Anal ed 14:758-9 S 15 '42

Micro-gas-analyzer. P. F. Scholander. diags R Sci Instr 13:264-6 Je '42

Modified Noyons thermic diaferometer for respiratory gas analysis. T. M. Carpenter and V. S. Coropatchinsky. il diags Ind & Eng Chem Anal ed 14:159-63 F 15 '42

Modified test for sulphur compounds in town gas. J. M. Grundy. Gas J (Lond) 236:281 N 19 '41; Same cond. Am Gas J 156:16-17 Mr '42

Platinized silica gel as a catalyst in gas analysis. K. A. Kobe. bibliog Am Gas Assn Proc 1941:453-4

Preparation of chromous chloride solution for determination of oxygen in gas. A. E. Sands. Am Gas Assn Mo 24:285-6 Jl-Ag '42

Recovery of pyridine bases from coke oven gas and methods for determining them. H. J. Meredith. Am Gas Assn Proc 1941:660-3

Simplified photometer for determining nitrogen dioxide concentrations. L. Harris and B. M. Siegel. bibliog diags Ind & Eng Chem Anal ed 14:258-60 Mr 15 '42

Studies on the measurement of water vapor in gases. F. C. Todd and A. W. Gauger. il diags Am Soc T M Proc 41:1134-51 '41

See also

Air—Analysis

Flue gas—Analysis

Gases—Apparatus

also names of gases, subdivision Analysis, e.g. Nitrogen—Analysis; Oxygen—Analysis

GAS and oil engines

Fume trap for Diesels and other internal combustion engines. D. C. Calderwood. il Water Works & Sewerage 89:247 Je '42

High-speed combustion engines; design: production: tests. P. M. Heldt. 11th ed 774p $7 P. M. Heldt, Nyack, N.Y. '41

Internal combustion engines. J. A. Polson. 2d ed 548p $5 Wiley '42

New type multi-fuel engine. Gas J (Lond) 237:353 Mr 11 '42

Portable petrol-engine driven pumping set. il Engineering 152:427 N 28 '41

Review of power and mechanical equipment; Diesels, gas engines and accessories. il diags Power 85:944-6 Mid-D '41

See also

Airplane engines

Automobile engines

Carbureters

Cylinders (engines, etc.)

Diesel engines

Gas turbines

Indicators (for gas and oil engines)

Motor boats

Motor bus engines

Motor cars (railroad)

Motor ships

Motor truck engines

Power plants—Gas engine plants

Tractors

Air supply

Excess air and BMEP. P. H. Schweitzer. diag Automotive & Aviation Ind 87:26-7 Jl 1 '42

Bearings

Bearings and lubrication. R. J. S. Pigott. il diags Mech Eng 64:259-69 Ap '42

Connecting-rod bearing clearance indicator. diags Engineering 153:6 Ja 2 '42

Lead alloys to replace tin for engine bearings; abstract. R. Boyer. Am Gas J 157:40 Ag '42

Care

Systematic checking guards against engine deterioration. il Oil & Gas J 40:109, 111, 115+ Ap 30 '42

Combustion research

Combustion in Diesel engines; effect of adding gaseous combustibles to the intake air. M. A. Elliott and L. B. Berger. bibliog Ind & Eng Chem 34:1065-71 S '42

Engine knock; observations on the emission and absorption spectra. A. G. Gaydon. Automobile Eng 32:391-2 O '42

Mollier diagrams for the theoretical alcohol-air and octane-water-air mixtures. R. Wiebe, J. F. Shultz and J. C. Porter. bibliog il diags Ind & Eng Chem 34:575-80 My '42

Cooling

Better cooling for gas-engine cylinders. diags Power 86:515-17 Jl '42

Compressor station equipped with radiator cooling system. C. L. Moore. il Pet Eng 13:79-80 Ag '42

Handy job-made filtering unit for make-up water. E. Sterrett. il Eng N 129:376-7 S 10 '42

Proposed API specification for the testing and rating of radiator-type cooling units. Am Pet Inst Proc 22(4):171-4 '41

Report of the gas engine power committee for 1941; high temperature cooling and waste heat recovery. il diag Am Gas Assn Proc 1941:376-80

Cost of operation

Deriving gas engine operating costs and standardizing reports. R. W. Frazier. Pub Works 72:34 N '41

Table of fuel-price equivalents. Oil & Gas J 41:69 My 28 '42

Design

Air flow through intake valves. G. B. Wood, jr. and others. diags S A E J 50:212-20+ Je '42

Axial engine; survey of recent designs. C. Campbell. il diags Automobile Eng 31:427-33 D '41

Erren combustion cycle; utilising gaseous fuel with hydrogen as main constituent; reprinted from Automobile engineer for Sept. 1937. il diags Automobile Eng 32:299-302 Ag '42

Efficiency

Excess air and BMEP. P. H. Schweitzer. diag Automotive & Aviation Ind 87:26-7 Jl 1 '42

How to get the most out of Diesel and gas engines. L. N. Rowley. diags Power 86:411-14 Je '42

Proper engine sizes save fuel. Oil & Gas J 41:45 S 3 '42

Exhaust

Exhaust gas, dew points and engine lubrication. B. Maddock. Power Pl Eng 46:64-6 F '42

Fuel

Erren combustion cycle; utilising gaseous fuel with hydrogen as main constituent; reprinted from Automobile engineer for Sept. 1937. il diags Automobile Eng 32:299-302 Ag '42

Gas and the internal combustion engine. D. C. Gunn. Gas J (Lond) 236:325 N 26 '41

Presidential address; oil. F. H. Rogers. il diag Inst Chem Eng Trans 18:10-18 '40

Table of fuel-price equivalents. Oil & Gas J 41:69 My 28 '42

See also

Airplane engines—Fuel

Automobile engines—Fuel

Automotive fuel

Diesel engines—Fuel

Gas and oil engines—Combustion research

Motor bus engines—Fuel

Motor truck engines—Fuel

Tractors—Fuel

Fuel feeding

Ex-Cell-O's new fuel injection nozzle; abstracts. C. R. Alden and R. K. Weldy. diags Automotive & Aviation Ind 86:34-5 F 1 '42; Automobile Eng 32:225-6 Je '42

Mechanical carburation; heavy-oil atomiser for spark-ignited engines. diags Automobile Eng 31:408 N '41

See also

Automobile engines—Fuel feeding

Diesel engines—Fuel feeding

GAS and oil engines—*Continued*

Ignition devices

Two 4-cylinder magnetos fire 8-cylinder engine. J. T. McKinley. diags Power 86:487-8 Jl '42

Lubrication

Bearings and lubrication. R. J. S. Pigott. il diags Mech Eng 64:259-69 Ap '42

Development of heavy duty motor oils; tests on tractor, General Motors Diesel and Chevrolet. H. C. Mougey. il R Sci Instr 13:89-90 F '42

Exhaust gas, dew points and engine lubrication. B. Maddock. Power Pl Eng 46:64-6 F '42

Running-in of internal-combustion engines; use of dag colloidal graphite in lubricating oil. Engineering 154:270 O 2 '42

Manifolds

Memorandum on manifold-depression curves. J. L. Joplin. Am Pet Inst Proc 22(4):169-71 '41

Manufacture

Broaching speeds tank engine production. il diags Steel 110:60 Je 29 '42

Continental completely renovizes plant for military engine production. J. Geschelin. il Automotive Ind 85:20-31+ D 1 '41

Fordson tractors; production methods. il Automobile Eng 31:435-42 D '41

How to produce surface hardened steel parts; high-frequency induction heating and quenching; production of crankshafts, pins, sprockets, etc. W. E. Benninghoff. il Gen Elec R 44:609-10 N '41

Large percentage of old machines used despite radical difference in parts; Cadillac motor car division of General motors corporation. il Am Mach 86:578-80 Je 11 '42

Mechanized handling speeds tractor manufacture; International harvester company. il Steel 109:67-8 D 22; 70-2 D 29 '41

Movable scales speed weigh-counting; Waukesha motor co. il Steel 110:104+ My 11 '42

Single-purpose machine tools for war-time production. il diags Engineering 153:265-7, 326-7, 330 Ap 3, 24 '42

Tank engines made on converted equipment. T. F. Rogan. il diags Am Mach 86:1236-43 O 29 '42

See also

Airplane engines—Manufacture

Automobile engines—Manufacture

Diesel engines—Manufacture

Protection

Safety switch on engine prevents overheating. il Oil & Gas J 40:48 Ja 15 '42

Specifications

American gasoline engines; tabulation. Automotive & Aviation Ind 86:92-101 Mr 15 '42

Automotive Diesel and other heavy oil engines; tabulations. Automotive & Aviation Ind 86:102-5 Mr 15 '42

Starting

Safety; pull-rope starter replaces crank. il Oil & Gas J 40:34 F 19 '42

Superchargers

See also

Airplane engines—Superchargers

Diesel engines—Superchargers

Tables, calculations, etc.

Exhaust gas, dew points and engine lubrication. B. Maddock. Power Pl Eng 46:64-6 F '42

Temperature

Piston temperatures; their measurement in petrol and Diesel power units. Automobile Eng 32:168 Ap '42

Testing

Play indicator to check the connecting-rod bearing clearances. diags Engineer 173:376 My 1 '42

Valves

Air flow through intake valves. G. B. Wood, jr. and others. diags S A E J 50:212-20+ Je '42

Prevents sticking valves; patent assigned to the Baldwin locomotive works. diag Machine Design 14:134 Jl '42

Vibration

Matrix theory of torsional oscillations. L. A. Pipes. diags J Ap Phys 13:434-44 Jl '42

GAS and oil engines, Marine

Waukesha-Hesselman engine. il Automobile Eng 32:33-4 Ja '42

See also

Diesel engines, Marine

Motor boats

Motor ships

Design

6000 S.H.P. marine oil engine. il diag Engineer 172:358-9 N 21 '41

Manufacture

Hall-Scott marine engines aid invasion and defense. C. O. Herb. il Mach 49:121-34 S '42

Retooled factory speeds output of aircraft and marine engines; Packard motor car company. il Am Mach 86:602-4 Je 11 '42

Sterling engine production for war boats. il Automotive & Aviation Ind 86:26-30+ Ap 1 '42

Specifications

American gasoline engines; tabulation. Automotive & Aviation Ind 86:92-101 Mr 15 '42

GAS and oil engines, Outboard

American two-cycle outboard motors; tabulated specifications. Automotive & Aviation Ind 86:106 Mr 15 '42

Marine moldings. il Mod Plastics 19:58 My '42

Outboard motor redesigned to eliminate aluminum. il diags Product Eng 13:194-5 Ap '42

GAS appliance industry

Appliance outlook. W. E. Derwent. Am Gas Assn Mo 24:7-8 Ja '42

Gas appliance and equipment industry in 1941. W. E. Derwent. Gas Age 89:28+ Ja 15 '42

Gas range and refrigerator production established under O.P.M. orders. Am Gas Assn Mo 24:26 Ja '42

Industrial and commercial gas equipment; outlook for the duration. K. Emmerling. il Am Gas Assn Mo 24:280-2 Jl-Ag '42

WPB relaxes restrictions on gas appliances; plumbing and heating equipment. Gas Age 89:11-12+ Je 18 '42

What about restrictions? W. E. Derwent. Am Gas J 156:22-3 Ap '42

What's ahead from the appliance manufacturers' viewpoint. H. T. Ryan. Am Gas Assn Proc 1941:210-13; Discussion. 213-21

GAS appliances

Enclosed hotplate; patent. diag Gas J (Lond) 238:278 My 20 '42

Gas appliance venting, design fundamentals. J. C. Mueller. diags Gas Age 88:34-6+ D 18 '41

Our laboratories' contribution to war efforts. R. M. Conner. il Am Gas Assn Mo 24:38-40 Ja '42

See also

Gas burners

Gas cooking

Gas heaters

Gas industry

Gas ovens, Baking

Gas stoves

Gas water heaters

Refrigerators, Gas

Installation

Gasco guide for improving forced warm air installation practices. H. P. Morehouse. Am Gas Assn Mo 23:430-1 D '41; Same. Am Gas J 155:50 D '41; Same. Gas Age 89:24-5+ F 12 '42

GAS appliances—*Continued*

Merchandizing

Annual report of food service equipment committee. Am Gas Assn Proc 1941:356-72
Dealer cooperation that has really worked. F. C. Smith. Gas Age 89:14-16 Ja 29 '42
New counter gas appliances, your tools for future business. E. C. Sorby. Am Gas Assn Proc 1941:334-7

See also
Gas appliances, Domestic—Merchandizing
Gas companies—Appliance selling

Repair

Adjustment and repair policy at Cambridge, Massachusetts. W. Laverty. Am Gas J 157:20-2 Jl '42
Free or paid appliance servicing? J. A. Cook. Gas Age 89:28-9+ Ap 9 '42
Gas appliance servicing. O. B. Tabor. $7.50 Bur. of business research, Boston univ. college of business administration, Boston '42; Review. Pub Util 29:438-40 Mr 26 '42
Jersey central power and light co. has USA plan; appliance conservation program. il Gas Age 90:15-16 Jl 30 '42
Sample statement showing method which shops servicing electrical and gas appliances and radios must file with local War price and rationing board. Am Gas J 157:50-1 O '42
Servicing trends; an analysis of factors affecting company policies. J. M. McCaleb and D. R. Edwards. Am Gas Assn Mo 24:218-20 Je '42
Technical aspects of appliance servicing. W. M. Little. Am Gas Assn Proc 1941:463-5

Safety measures

Do's and don'ts for handling gas appliances in an air raid. Am Gas Assn Mo 24:52 F '42

Standards

Changes in approval standards and laboratories' procedure streamlined to the war tempo. F. R. Wright. il Am Gas Assn Mo 24:245-8 Je '42
More gas appliance standards are available. R. M. Conner. il Ind Stand 13:23-5 S '42
New commercial standard for floor furnaces. il Gas Age 89:11-13+ Mr 26 '42
New gas counter appliance standard provides for safety and efficiency. R. M. Conner. il Ind Stand 13:23-5 Ja '42
Standardization of apparatus. A. H. Dyer. Gas J (Lond) 237:365 Mr 11 '42

GAS appliances, Domestic

Conservation of gas through consumer education. Am Gas J 157:39-40 N '42
Contribution of the gas industry in the domestic field to national fuel economy; gas, electricity and solid fuels compared. H. Hartley. Gas J (Lond) 238:460-2, 465-6 Je 17 '42; Discussion. 239:69, 93+, 206+ Jl 8-15, Ag 5 '42
Gas comfort in war-worker housing projects. il map Gas Age 90:47-50 Jl 16 '42
Gas industry in relation to post-war domestic architecture. E. Crowther. Gas J (Lond) 238:457-60 Je 17 '42; Discussion. 238:529, 531; 239:61, 169-70, 206 Je 24, Jl 8, 29-Ag 5 '42
Gas services predominate in new homes constructed in 1941. Am Gas Assn Mo 24:305 S '42
Housing census: fuels used for cooking. Gas Age 90:21+ N 5 '42

See also
Gas burners
Gas cooking
Gas heaters
Gas stoves
Gas water heaters
Refrigerators, Gas

Cost of operation

Contribution of the gas industry in the domestic field to national fuel economy; gas, electricity and solid fuels compared. H. Hartley. Gas J (Lond) 238:460-2, 465-6 Je 17 '42

Merchandizing

Building industry cooperation policy of the Hartford gas co. Am Gas J 156:18+ Ja '42
Economic desirability of the house heating load and its collateral advantages in connection with other domestic services. Am Gas Assn Proc 1941:255-9
How Blackstone Valley aids dealers; salesmen receive commissions for appliances sold by local dealers. M. S. Sullivan. il Gas Age 89:22 Mr 12 '42
How I would increase public acceptance of gas as the ideal domestic fuel. R. H. Lewis. Am Gas Assn Proc 1941:69-76; Same. Am Gas Assn Mo 24:11-12, 59-60, 97-9 Ja-Mr '42
How I would increase public acceptance of gas as the ideal domestic fuel. T. B. J. Merkt. Am Gas Assn Proc 1941:77-84
Major committees present a sales preview for 1942. Am Gas Assn Mo 23:442-5 D '41
Residential sales promotion during the war. E. J. Boyer. il Gas Age 89:42-4 Ja 15 '42
War today and what tomorrow? A. W. Lundstrum. il Gas Age 90:18-21+ Jl 2 '42
Wartime shift from sales to service reflected at A.G.A. Residential gas sales conference, New Orleans, May 5-6. Am Gas Assn Mo 24:233-4 Je '42

See also
Gas stoves—Merchandizing

GAS as fuel

Alternative motor fuels. N. C. Jones. il diags Automotive & Aviation Ind 87:40-4+ Ag 1 '42
America's war industry turns to gas to surpass production peaks. F. H. Adams. il Am Gas Assn Mo 24:133-7 Ap '42
Analysis of consumption; tables. Am Gas Assn Proc 1941:44-54
Bigger tanks; bigger uses for industrial gas. il Am Gas Assn Mo 24:58 F '42
Curing paintwork by gas heating. Automobile Eng 31:399 N '41
Design and operation of gas-fired industrial equipment in relation to national fuel economy. E. A. C. Chamberlain. Gas J (Lond) 238:515-19 Je 24 '42; Discussion. 239:67 Jl 8 '42
Drying processes with gas heat. D. D. Beach. Chem & Eng N 20:740-1 Je 10 '42
Economical operation of gas-fired industrial equipment. Gas J (Lond) 236:282+ N 19 '41
Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42
Fast tool-brazing setup; Buick motor division of General motors corp. il Steel 110:92, 95 Ap 27 '42
Fuel economy; discussion. Gas J (Lond) 237:357-8 Mr 11 '42
Gas, a major tool of war production. il Gas Age 90:38-42+ Jl 16 '42
Gas and the internal combustion engine. D. C. Gunn. Gas J (Lond) 236:325 N 26 '41
Gas as varnishmaking fuel. C. G. Segeler. Oil Paint & Drug Rep 142:47, 47A O 26 '42
Gas-generated infra red rays in textile drying. Rayon 22:719-20 D '41
Heating of coke ovens. U. L. Koski. Blast F & Steel Pl 30:775-7 Jl '42
How industrial gas is promoting Canada's war effort. D. H. Thorburn. Am Gas Assn Mo 24:193-4 My '42
Immersion tubes for industrial and commercial heating. F. E. Vandaveer. Am Gas Assn Mo 24:197-9 My '42
Industrial and commercial gas equipment; outlook for the duration. K. Emmerling. il Am Gas Assn Mo 24:280-2 Jl-Ag '42
Industrial gas controls as used in war plants. A. H. Koch. Am Gas J 156:26-8 Je '42
Industrial gas engineer a valuable cog in war production. J. P. Brosius. Gas Age 90:23-4 Jl 30 '42
Industrial gas goes to war! H. M. Heyn. Chem & Eng N 20:741-2 Je 10 '42

GAS as fuel—*Continued*

Industrial gas keeps pace. C. B. Phillips. Am Gas J 156:30-2 My '42

Industrial metering. A. D. MacLean. il diag Gas Age 87:28-33 Je 19 '41; Am Gas J 157:24-6, 29-30, 60 O '42

Ladle preheater uses gas. il Foundry 70: 117 Jl '42

Measurement of industrial gas by displacement meters. J. C. Diehl. Am Gas J 156: 13-17 My '42

New type gas fired continuous conveyor brazing furnace. W. J. Shore. il Am Gas J 156:34-5 Ap '42

Production for war is keynote of A.G.A. industrial and commercial meetings in New Orleans. Am Gas Assn Mo 24:235-6 Je '42

Program of gas fuel conservation. W. J. Shore. il Am Gas J 157:15-16 S '42

Progress in gas utilization research during 1941. il Am Gas Assn Proc 1941:411-29

Radiant heat transmission from water vapor. H. C. Hottel and R. B. Egbert. bibliog diags Am Inst Chem Eng Trans 38:531-65; Discussion. 565-8 Je '42

Report of committee on use of gas in national defense. Am Gas Assn Proc 1941:391-3

Report of metal treating and melting committee. il Am Gas Assn Proc 1941:385-7

Series of talks by company executives on industrial gas at work in production for national defense. F. H. Adams and others. Am Gas Assn Proc 1941:307-22

Small radiant cups direct heat to work; method of using gas for industrial heating. F. O. Hess. il diag Metal Prog 41:217-20 F '42

Tools of war from yesterday's laboratories; gas fired furnaces. H. M. Heyn. il Gas Age 89:38-40+ My 7 '42

Vegetable dehydrating plants big users of gas. A. R. Carter. Am Gas J 156:12 Ap '42

War effort revolves around industrial gas. G. F. B. Owens. il Gas Age 89:38-9 Ja 15 '42

See also

Blast furnace gas
Boilers—Gas firing
Boilers, Heating—Gas firing
Butane
Coke-oven gas
Gas, Producer
Gas and oil engines
Gas appliances
Gas burners
Gas cooking
Gas heaters
Gas heating
Gas in air conditioning
Gas producers
Gas stoves
Liquefied petroleum gas
Propane
Sewage sludge—Gas production

Natural gas

Alfalfa dehydrating helps farmers. M. F. Peters. il Gas Age 90:22-3 S 10 '42

Arkansas sour gas to be used in alumina and aluminum plants. Gas Age 89:30 Mr 26 '42

Bringing of natural gas to war plants. il Gas Age 90:46-7 O 8 '42

Gas-burning Diesels give fuel flexibility; Universal Atlas cement co. il diags plan Power 86:651-4 S '42

Gas comfort in war-worker housing projects. il map Gas Age 90:47-50 Jl 16 '42

Gas firing Hoffman kilns; abstract. R. L. Ferguson. Brick & Clay Rec 100:30-1 My '42

Heating value by gas analysis. G. M. Stearns. Oil & Gas J 41:49 S 3 '42

Industrial and commercial gas equipment; abstract. K. Emmerling. Am Gas J 157:28-9 Ag '42

NYA prefers natural gas. Gas Age 88:18 D 4 '41

Natural gas coordinating groups for 48 states set up to speed defense work. Am Gas Assn Mo 24:61-2 F '42

Natural gas in the U.S.A.: its production, distribution, and utilization. W. B. Poor. maps Mech Eng 64:369-72 My '42

Natural gas industry and the war. J. F. Robinson. Am Gas J 156:9-11+ My '42

Radio interview with Edward M. Borger, tells story of natural gas in war production area. Am Gas Assn Mo 24:337-9+ O '42

Standby systems solve fuel problem for two different glass plants; Fostoria glass co. uses butane-propane gas; Imperial glass co. uses oil. il Cer Ind 39:34-6 S '42

WPB order would limit uses and customers of natural gas. Oil & Gas J 40:23-4 F 5 '42

GAS associations

Associations affiliated with A.G.A; list with names of officers. Am Gas Assn Mo 24: [back cover] Ja '42 [cont monthly]

GAS black. See Carbon black

GAS burners

Advances in fast surface hardening; gas-air flame hardening. F. O. Hess. il diags Metal Prog 42:399-403 S '42

Aerated burner flames; abstract. J. S. Forsyth and D. G. R. Davies. Engineering 153:314-15 Ap 17 '42

Cooker hotplate burners; patent. diag Gas J (Lond) 236:431, 433 D 17 '41

Design fundamentals of atmospheric gas burner ports. R. L. Fletcher and R. M. Conner. il Am Gas Assn Mo 24:256-8+ Jl-Ag '42

Flame hardening with city gas. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:871-4, 947-9, 1012-14, 1088-90 Ag 20-O 1 '42

Natural-gas burners in chain-grate-fired boilers to supplement coal firing; abstract. B. L. Crain. Power 86:838a N '42

Radiant gas burners; use and development in industrial furnace design. F. O. Hess. il Am Gas Assn Mo 24:180-1+ My '42

Stability of aerated burner flames; abstract. J. E. Garside and A. R. Hall. Engineering 153:315-16 Ap 17 '42

Town gas and kinematic viscosity. A. Coe. plan Gas J (Lond) 237:435, 437; 238:62, 64, 67+ Mr 25, Ap 8 '42; Discussion. 238:102 Ap 15 '42

Use of infra red-ray gas burners in the textile industry. J. A. Fulton. il Rayon 23:344 Je '42

Varnish cooking with radiant burners. il Chem & Met Eng 49:94 Ap '42

Control

Flow manostat for various purposes, including the candy test. M. J. Proffitt. pl diags J Research Nat Bur Stand 29:143-55 Ag '42

Gas service manual; automatic controls. W. L. Riehl. diags Gas Age 90:25-9 Jl 30 '42

Ignition devices

Automatic ignition. R. M. Conner. il Am Gas Assn Mo 24:76-8, 116-18 F-Mr '42

Flint gas lighters; patent. Gas J (Lond) 238: 96 Ap 15 '42

Manufacture

Flexibility is watchword when making complex and difficult products; the Selas company makes variety of porous porcelain filters and ceramic gas burners. il Cer Ind 39:52, 54+ S '42

Rating

Gas burners. diag Consumers' Research Bul 9:24-5 F '42

Testing

Observations from data taken with a flashback instrument. J. A. Morrison. il diags Am Gas J 157:11-17, 44 Ag '42; Same. Gas J (Lond) 239:215, 217 Ag 5 '42

GAS burning equipment

Design and operation of gas-fired industrial equipment in relation to national fuel economy. E. A. C. Chamberlain. Gas J (Lond) 238:515-19 Je 24 '42; Discussion. 239:67 Jl 8 '42

Economical operation of gas-fired industrial equipment. Gas J (Lond) 236:282+ N 19 '41

Immersion tubes for industrial and commercial heating. F. E. Vandaveer. Am Gas Assn Mo 24:197-9 My '42

Industrial and commercial gas equipment; abstract. K. Emmerling. Am Gas J 157:28-9 Ag '42

GAS burning equipment—*Continued*

Isothermal control of channel carbon black production. C. R. Johnson. il India Rubber W 105:367-8 Ja '42

Program of gas fuel conservation. W. J. Shore. il Am Gas J 157:15-16 S '42

Advertising

Surface Combustion campaign creates new thinking on deliveries. il Ind Marketing 26:19-20 D '41

GAS carburizing. See Case hardening—Gas carburizing

GAS cleaning

Cleaning of gases; patent. diag Gas J (Lond) 236:175+ O 29 '41

Electrical precipitation of suspended particles from gases; patent. diag Gas J (Lond) 237:175 F 4 '42

Practical application of gas producers to road transport; abstracts. S. G. Ward and W. J. Morison. diag Engineer 173:386-7, 405-6 My 8-15 '42; Engineering 153:418-20, 438-40 My 22-29 '42; Gas J (Lond) 238:289, 329, 421+ My 20-27, Je 10 '42

See also

Electric precipitation

GAS, coke and chemical workers, National council of. See National council of gas, coke and chemical workers

GAS companies

See also

American gas association

Brooklyn union gas company

Columbia gas and electric corporation

Gas, Natural—Pipe lines

United gas improvement company

Accidents

Accidents in the utility industry; statistical report. Am Gas J 157:35 S '42

Fewer accidents in the gas industry reported in survey of disabling injuries. E. R. Martin. Am Gas Assn Mo 24:259-60 Jl-Ag '42

Gas companies had good 1941 safety record. Gas Age 90:55-6 O 8 '42

Accounting

Accountants face another major job; plans of Accounting section of the American gas association. L L. Dyer. Gas Age 89:37+ Ja 15 '42

Actual application of the reproduction-cost-of-service principle in rate making. J. Jeming. J Land & Pub Util Econ 18:188-203 My '42

How British utility accountants met the blitz. E. N. Keller. Am Gas Assn Mo 24:230-2 Je '42

Inactive materials (non-standard) materials in the material and supplies account, their source, disposition and prevention. C. H. zur Nieden. il Am Gas Assn Proc 1941:175-9

Internal auditing: a vital need of modern management. J. B. Thurston. Am Gas Assn Proc 1941:154-63

Internal check, control and audit. J. A. Marvin. Am Gas Assn Proc 1941:140-3

Material and supply accounting in 1942. R. J. Daniels. Gas Age 89:24-6 Ja 1 '42

Meeting of gas and electric industry accountants on war emergency problems and procedures. Edison Elec Inst Bul 10:201+ My '42

Motor vehicle operations as viewed by the accounting department. Am Gas Assn Mo 24:105-6 Mr '42

New problems for your accountants. E. F. Embree. Gas Age 89:25-7 Ap 9 '42

Preparation and presentation of accounting data in state regulatory rate hearings. L. G. James. Am Gas Assn Proc 1941:164-7

Proofs employed and statistics compiled in service billing operations. G. W. Fuchs. il Am Gas Assn Proc 1941:183-94

Relation of residential deposits to uncollectible accounts. H. F. Quad. Am Gas Assn Proc 1941:195-8; Same abr. Am Gas Assn Mo 23:274-5+ Jl-Ag '41

Technical administration and costing in a gas undertaking. T. Haworth. Gas J (Lond) 236:169-70, 175 O 29 '41; Discussion. 236:206+ N 5 '41

Uniform system of the accounts for gas utilities prescribed by the Illinois Commerce commission. 240p Illinois commerce commission, Springfield '42

War and savings of materials and effort: a task for property records. R. L. McVey. Am Gas Assn Mo 24:366-8 O '42

Accounting departments

Unaccounted for! accounting department functions in gas diversion cases. J. B. McKelvey. Am Gas Assn Mo 24:24-5+ Ja '42

Advertising

See also

Gas industry—Advertising

Appliance selling

Building industry cooperation policy of the Hartford gas co. Am Gas J 156:18+ Ja '42

How Binghamton is making customer survey. Gas Age 89:12-14 F 26 '42

How I would increase public acceptance of gas as the ideal domestic fuel. R. H. Lewis. Am Gas Assn Proc 1941:69-76; Same. Am Gas Assn Mo 24:11-12, 59-60, 97-9 Ja-Mr '42

How I would increase public acceptance of gas as the ideal domestic fuel. T. B. J. Merkt. Am Gas Assn Proc 1941:77-84

Know your market! gas surveys show changing trends in utilization. E. J. Devlin. Am Gas Assn Mo 24:53-6+ F '42

Residential sales promotion during the war. E. J. Boyer. il Gas Age 89:42-4 Ja 15 '42

Revenue recovery after a changeover. C. V. Sorenson. Gas Age 89:24-8 Ap 23 '42

School cafeteria managers are good contacts. A. R. Carter. Am Gas J 156:23 Mr '42

Tell the dealers all the facts. F. Talcott. Gas Age 89:27-8+ F 12 '42

Yesterday, today and tomorrow? C. E. Paige. Am Gas Assn Proc 1941:207-9; Same. Am Gas Assn Mo 23:427-8 D '41; Same. Gas Age 89:23-4 F 12 '42

Your company's reputation; how it will affect tomorrow's selling. H. Cuthrell. Gas Age 89:10-12+ Ja 1 '42

See also

Gas stoves—Merchandizing

Buildings

Cincinnati gas and electric company building on air-raid alert; illustrations and text. Gas Age 90:28 S 10 '42

Gas-fired absorption system on display by California utility. il Heat & Ven 39:62 Ap '42

Milestone of progress; new building marks growth of Washington's gas service. il Am Gas Assn Mo 24:359-60 O '42

New customers service order system and gas air conditioning equipment; new office building annex of Southern California gas company. F. A. Herr. il Am Gas J 155:15-18, 21, 23+ D '41

New Orleans public service sold itself first; installs gas air conditioning in its own building. R. Latimer. il Gas Age 89:24+ Je 4 '42

Washington gas light co. opens new building. il Gas Age 90:28-9 N 5 '42

Consolidation

Merger of Northwestern Ohio natural gas co. into Ohio fuel gas co. Comm & Fin Chr 155:1843 My 11 '42

Customer relations

Collecting money and good will. J. G. Ross. Am Gas Assn Proc 1941:180-3; Same abr. Am Gas Assn Mo 23:310-11 S '41

Customer relations as applied to industrial and commercial sales. O. C. Warren. Am Gas J 157:27-8 Ag '42

GAS companies—Customer relations—*Continued*

Laclede launches maintenance-of-customer plan as victory aid and post-war insurance. J. Prosser. il Gas Age 90:18-19 S 10 '42

New collection methods to reduce personnel and equipment. H. S. Hahn. Am Gas Assn Mo 24:274-5 Jl-Ag '42

No complaints from the district. L. W. Andrew. Gas J (Lond) 240:26, 62, 67; Discussion. 67+ O 7-14 '42

Responsibilities of the service man and meter setter. M. D. Fridge. Gas Age 89:24+ Ja 29 '42

War-time relations with our industrial and commercial customers. J. P. Leinroth. Gas Age 89:17-18 Mr 26 '42; Am Gas J 156:28-9 Ap '42

Deposit requirements

Relation of residential deposits to uncollectible accounts. H. F. Quad. Am Gas Assn Proc 1941:195-8; Same abr. Am Gas Assn Mo 23:274-5+ Jl-Ag '41

Electric utility competition

Changing the thinking of a city; Chattanooga, Tenn. gas company. W. A. Hudson. il Gas Age 89:16-18+ F 12 '42

You'll hear about it; electric stove advertising campaigns. il Gas Age 88:23-4 D 4 '41

Employees

Air raid drill wins acclaim of army and civilian defense officials; Portland gas & coke company. D. M. Johnston. il Am Gas Assn Mo 24:253 Jl-Ag '42

Atlanta employs girls as meter readers. il Am Gas J 157:40 Jl '42

Atlanta girls make good as meter readers. J. H. Reed. il Gas Age 90:26+ S 10 '42

Basic problem in labor relations. H. Cuthrell. Gas Age 89:16-18 Je 4 '42

Billing clerks work to music, and do more. il Gas Age 90:82 Jl 16 '42

Brooklyn Union plans for defense. C. E. Paige and others. il Gas Age 88:17-28 N 20 '41; Same cond. Am Gas J 155:25-8, 31-2 N '41; Excerpt. Am Gas Assn Mo 23:378-80+ N '41

Cooperative training of technical men. W. E. Nightingale. Am Gas Assn Proc 1941:448-9

Defense training; Washington speeds program to protect gas supply. H. B. Noyes. Am Gas Assn Mo 24:88-90 Mr '42

Educational slide film advances employe information program at New Orleans public service company. J. E. Kearns. Am Gas J 156:24+ Ap '42

Employees of three gas companies awarded McCarter medals. Am Gas Assn Mo 23:439 D '41

Gas and electric utilities and the wage and hour law. B. Snyder. Am Gas Assn Proc 1941:143-51

Gas industry outline of occupational deferment. Pub Util 30:244-7 Ag 13 '42

Gas men and the draft. Gas Age 89:24 Mr 12 '42

Report of committee on personnel practices. Am Gas Assn Proc 1941:55-8

Responsibilities of the service man and meter setter. M. D. Fridge. Gas Age 89:24+ Ja 29 '42

Suggestion-award plan brings in good ideas; Portland, Ore. gas and coke company. A. J. Larson. il Gas Age 89:24 F 26 '42

Training servicemen by use of recurring service orders. Am Gas Assn Proc 1941:460-3

Woman's part in the British gas industry. H. H. Hallinan. il Am Gas J 157:16-18 O '42

Women collectors; Connecticut light & power co. L. A. Mayo. Am Gas Assn Mo 24:413 N '42

See also
Gas companies—Salesmen

Equipment and supplies

Application of motor transportation to the gas industry from the operating engineer's viewpoint. A. C. Cherry. Am Gas Assn Proc 1941:624-6

Application of motor transportation to the gas industry from the transportation supervisor's viewpoint. J. M. Orr. il diag Am Gas Assn Proc 1941:617-23

Conserving motor vehicles during war times; Lone star gas company. W. L. Carter. Gas Age 89:46+ My 7 '42

Drip truck does double duty as mobile firefighting unit. il Am Gas Assn Mo 24:214 Je '42

Gas industry moves to reduce motor vehicle mileage and conserve equipment. Am Gas Assn Mo 24:156-8 Ap '42

Machines must work for war or scrap! Rochester gas and electric corp. found 2150 tons of scrap by a thorough and systematic survey. E. B. Robinson. il Power 86:723-5 O '42

Motor vehicle operations as viewed by the accounting department. Am Gas Assn Mo 24:105-6 Mr '42

Motor vehicles in the gas industry. J. Y. Ray. Am Gas Assn Proc 1941:650-3; Excerpts. Am Gas J 155:67 N '41; Discussion. Am Gas Assn Proc 1941:653-5

O.P.M. priority rulings. Am Gas J 156:34-5 Ja '42

Preliminary report of survey of new developments in tools, methods and materials in gas distribution practice. Am Gas Assn Proc 1941:544-57

Reconditioning pipe equipment during a national emergency; conservation of other equipment. A. J. Goss. Gas Age 89:9 Ap 23 '42

Six steps that have cut tire usage by 45 per cent in southern California. L. S. Flint. il Am Gas J 157:17-18+ S '42

War and savings of materials and effort: a task for property records. R. L. McVey. Am Gas Assn Mo 24:366-8 O '42

War-time operation of a public utility automobile fleet; Boston consolidated gas co. B. D. Connor. il map Am Gas J 157:29-36 N '42

War transportation; O.D.T. order 21 and its effect on public utility fleets. L. Edsall. Am Gas Assn Mo 24:401-3 N '42

Wrinkles; office, distribution and other equipment and methods. diags Gas Age 89:25-6 Mr 26; 30-2 Ap 9; 29-30, 32 Ap 23 '42

See also
Gas companies—Purchasing
Gas pipes
Gas works—Equipment

Exhibits

See also
Gas industry—Exhibitions

Extension policies

When gas company may refuse to supply gas. L. T. Parker. Am Gas J 156:25-7 Mr '42

Finance

Gas industry maintains earnings. W. D. Gay. Gas Age 89:32-3+ Ja 15 '42

Natural gas earnings gain despite tax burden. Pub Util 30:499-500 O 8 '42

New vision in an old industry; what Portland gas & coke co. is doing to overcome decline in manufactured gas sales. C. MacDonald. Barron's 22:9 Mr 2 '42

Public utility depreciation practice. H. G. Guthmann. Harvard Business R 20 no 2:213-22 [Ja] '42

Rate adjustments; a major utility problem during the emergency. A. I. Phillips and D. A. Henry. Am Gas Assn Mo 24:91-2+ Mr '42

Rate situation in view of present price trends. D. A. Henry. Gas Age 90:37-9+ O 8 '42

Structure and finance of the two-part tariff. A. F. Pollock. Gas J (Lond) 239:356, 359, 389-91 S 2-9 '42; Discussion. 239:473 S 23 '42

Insurance requirements

Gas and electric utilities report on war risk insurance practices. R. Fleming. Am Gas Assn Mo 24:187-9+ My '42; Same cond. Edison Elec Inst Bul 10:160-1+ Ap '42

GAS companies—Insurance requirements—*Cont.*
War damage insurance rates to utilities lowered. Am Gas Assn Mo 24:317 S '42

Law

Defective service line; explosion liability of gas company. L. Childs. Am Gas J 156: 27-8 F '42
Pipe line easement construed. Gas Age 90:11+ Ag 27 '42
Recent court decisions affecting gas utilities; legal duty to supply gas. L. T. Parker. Am Gas J 157:37-8 Ag '42
Recovery of undercharges for utility service. J. Simpson. Gas Age 88:37-9 D 18 '41
When gas company may refuse to supply gas. L. T. Parker. Am Gas J 156:25-7 Mr '42

See also
Gas, Natural—Laws and regulations

Libraries

Presenting a system of filing publications for gas engineers. S. Shire. il Gas Age 89: 25-6+ Je 4 '42

Management

Aspects of the office organization of a large gas undertaking. A. F. Pollock. Gas J (Lond) 236:461-2+ D 24 '41
Customer billing safeguards against errors. M. F. Young. Am Gas Assn Mo 23:440-1 D '41
Development of manuals of procedure. F. Seinecke. Am Gas Assn Proc 1941:151-3
Gas promotion in an abnormal market; Washington (D.C.) gas light company. A. J. Maloney and J. E. West. Gas Age 89: 18-19 Ja 29 '42
Higher meter reading wages at lower costs through changes in meter reading routes. T. J. O'Neill. Am Gas Assn Mo 24:147-50+ Ap '42
Internal auditing: a vital need of modern management. J. B. Thurston. Am Gas Assn Proc 1941:154-63
New Orleans welcomes natural gas men; natural gas supply and stand-by plant. A. B. Paterson. il Gas Age 89:32-3, 56-7 My 7 '42
War and the office. C. H. Newton, jr. Am Gas Assn Mo 24:316-17 S '42

Officials

Who's who in the public utilities industry. L. Stotz, ed. 205p $3 Louis Stotz, box 7274, Philadelphia '42

Public relations

Changing the thinking of a city; Chattanooga, Tenn. gas company. W. A. Hudson. il Gas Age 89:16-18+ F 12 '42
Community program for gas companies provides an opportunity for defense service. J. H. Warden. Am Gas Assn Mo 24:57-8 F '42
Don't waste gas; public-relations program, Mississippi power and light company. R. Latimer. Gas Age 89:54-6 My 7 '42
Gas in the news; how publicity is maintaining contact on the home front. H. F. Woods. Am Gas Assn Mo 24:261-2 Jl-Ag '42

See also
Gas companies—Customer relations

Purchasing

Materials and supplies investment. E. S. Brock. Am Gas Assn Proc 1941:173-5
Summary of replies to questionnaire relative to purchasing department commodity source and price records. C. H. zur Nieden. Am Gas Assn Proc 1941:171-3

Radio communication

Public utility emergency radio system; Montana power company gas and electric departments. W. H. Blankmeyer. il Electronics 15:65+ My '42
Radio control in gas operating departments. J. P. Neill. Gas Age 89:12+ Ap 23 '42
Radio-telephone equipment would make possible necessary communication in handling air raid and other emergency repairs. il Am Gas J 157:14 S '42

Records

Sensing marks on tabulating cards; automatic punching of tabulating cards from pencil marks. W. C. Israel. il Am Gas Assn Proc 1941:198-205

Regulation

Manufactured gas limitation order L-174; delivery to new industrial and domestic consumers restricted by War production board. Gas Age 90:31 S 10 '42
Preparation and presentation of accounting data in state regulatory rate hearings. L. G. James. Am Gas Assn Proc 1941:164-7
Separate meters for different apartments; Commission rulings. Gas Age 89:28 Ja 1 '42

Safety measures

Gas company accident prevention programs. C. L. O'Reilly and others. Am Gas J 157: 33-7 O '42
Our first three million; safety program of Ohio fuel gas company and the Northwestern Ohio natural gas company. I. A. Ludwig. il Nat Safety N 45:51+ Ja '42

Salesmen

How Blackstone Valley aids dealers; salesmen receive commissions for appliances sold by local dealers. M. S. Sullivan. il Gas Age 89:22 Mr 12 '42
Wartime trends in appliance servicing and personnel training. J. M. McCaleb and J. L. Johnson. Am Gas Assn Mo 24:303-4 S '42

Securities

Gas stocks and shares. Published in weekly numbers of Gas journal (London)
Laclede Gas in improved position. A. Jansen. Barron's 22:19 N 2 '42
Status of Brooklyn Union gas bonds. A. Jansen. Barron's 22:19 Ag 31 '42

Service

Adjustment and repair policy at Cambridge, Massachusetts. W. Laverty. Am Gas J 157: 20-2 Jl '42
Appliance servicing. H. G. Horstman and W. H. Weber. Am Gas Assn Proc 1941:645-7; Excerpts. Am Gas J 155:66-7 N '41; Discussion. Am Gas Assn Proc 1941:648-9
Applied nutrition; a challenge to utility home service organizations. H. S. Mitchell. Am Gas Assn Mo 24:131-2 Ap '42
Colored maids' classes pay dividends; Home service department of United gas corp, Houston, Texas. il Gas Age 89:23 F 26 '42
Customers first; mains later; selling butane in outlying districts; Jacksonville gas company. W. H. Duguid. il Gas Age 90:10-11 Ag 27 '42
Ever see a vitamin? Take a look! Home service program; Fall River (Mass.) gas works co. H. V. Potter. il Gas Age 89:47-8 My 7 '42
Free or paid appliance servicing? J. A. Cook. Gas Age 89:28-9+ Ap 9 '42
Home service department; breakfast session. Am Gas Assn Proc 1941:297-304
Home service departments in the gas industry cooperate in national defense. J. L. Roberts. Am Gas Assn Proc 1941:243-55 bibliog(p248-52)
Home service enlists; highlights of community activities to aid war program. J. McQueen. il Am Gas Assn Mo 24:94-6 Mr '42
Home service in the South makes vital contributions to war effort. J. McQueen. il Am Gas Assn Mo 24:318-21 S '42
Home service in wartime can render invaluable aid to nation. H. M. Henry. Am Gas Assn Mo 24:50-1, 67-8 F '42
Jersey central power and light co. has USA plan; appliance conservation program. il Gas Age 90:15-16 Jl 30 '42
Meeting the emergency; Home service committee, Rochester gas & electric corp. Am Gas Assn Proc 1941:221-3

GAS companies—Service—*Continued*

Meter reading practices of gas companies during the emergency. il Am Gas J 157:9-12 S '42

Mid-Western companies gear home service activities to victory program. J. McQueen. il Am Gas Assn Mo 24:276-9+ Jl-Ag '42

New Brooklyn Union service schedule saves tires. Gas Age 89:27 Ap 9 '42

New customers service order system and gas air conditioning equipment; new office building annex of Southern California gas company. F. A. Herr. il Am Gas J 155:15-18, 21, 23+ D '41

New Orleans home service activities on home front. J. Kammer. il Gas Age 90:16-18 N 5 '42

Pack a lunch a man can work on; nutrition, theme of Bridgeport gas light company's campaign. il Am Gas Assn Mo 24:168-72 My '42

Public service company of Colorado takes case to independent dealers; establishment of Dealers and builders service department. H. Padgett. Am Gas J 157:32 Jl '42

Public Service of Colorado promotes industrial-nutrition program. R. Latimer. il Gas Age 90:22-4 N 5 '42

Sales and service relations. W. H. Weber. Am Gas Assn Proc 1941:259-62

Servicing trends; an analysis of factors affecting company policies. J. M. McCaleb and D. R. Edwards. Am Gas Assn Mo 24:218-20 Je '42

Showing women food will win the war. il Gas Age 90:57-60 Jl 16 '42

Six steps that have cut tire usage by 45 per cent in southern California. L. S. Flint. il Am Gas J 157:17-18+ S '42

Technical aspects of appliance servicing. W. M. Little. Am Gas Assn Proc 1941:463-5

Training servicemen by use of recurring service orders. Am Gas Assn Proc 1941:460-3

War and post-war gas sales, service and research survey; includes material received from 32 manufactured, natural and mixed gas companies. E. J. Boyer. il diags Am Gas Assn Mo 24:343-57 O '42

War service first is home service creed. J. McQueen. il Am Gas Assn Mo 24:190-2+ My '42

Wartime trends in appliance servicing and personnel training. J. M. McCaleb and J. L. Johnson. Am Gas Assn Mo 24:303-4 S '42

Water heater check chart enables utility to improve water heater service. J. E. Kearns. Am Gas J 157:43 O '42

What the gas industry is doing about it; abstract. J. McQueen. Gas Age 90:21-2 Jl 30 '42

Show windows

Window displays feature nutrition for defense. il Am Gas Assn Mo 23:429 D '41

Stores systems

Central tool depot system; Southern California gas company. L. L. Biggs and J. R. Brick. il Gas Age 90:19-23 Ag 13 '42

Inactive materials (non-standard) materials in the material and supplies account, their source, disposition and prevention. C. H. zur Nieden. il Am Gas Assn Proc 1941:175-9

Material and supply accounting in 1942. R. J. Daniels. Gas Age 89:24-6 Ja 1 '42

Materials and supplies investment. E. S. Brock. Am Gas Assn Proc 1941:173-5

Taxation

Federal income taxes and the gas industry. W. D. Gay. Gas Age 90:53-4+ O 8 '42

Telephone

New customers service order system and gas air conditioning equipment; new office building annex of Southern California gas company. F. A. Herr. il Am Gas J 155:15-18, 21, 23+ D '41

Valuation of property

Actuarial approach. M. R. Scharff. Am Gas Assn Proc 1941:167-71

Supreme Court valuation case as we see it. J. Simpson. Gas Age 89:22-3 Ap 9 '42

GAS compressors

Centrifugal-compressor fundamentals. il diags Power 86:27-30 Ja '42

Compressor design for the process industries. R. York, jr. bibliog il diags Ind & Eng Chem 34:535-44 My '42

Converting standard compressors for service in butadiene plants. B. C. Thiel. il Nat Pet N 34 pt 2:R254-5 Ag 26 '42

Developments in maintaining compressor-station equipment. W. E. Nestor and G. H. McKay. il Oil & Gas J 41:123+ S 24 '42

Grouting checks foundation vibration; gas compressor station of the Cities service gas co. at Wichita. il Eng N 129:561-2 O 22 '42

How Shell saved 6000 h.p. of new compressors in expanding aviation gasoline plants. Nat Pet N 34 pt 2:R256 Ag 26 '42

See also

Air compressors

Ammonia compressors

Repair

Machine shop plays important role in maintaining compressor station equipment. W. E. Nestor and G. H. McKay. il Pet Eng (Annual no) 13:136, 139-40 [Jl] '42

GAS containers

It's done with gas; vital role of oxygen and the acetylenes in the war effort. il Business Week p50+ My 30 '42

Light metal gas bottles; abstract. T. Wyss. Metals & Alloys 16:166 Jl '42

GAS cooking

Annual report of food service equipment committee. Am Gas Assn Proc 1941:356-72

Applied nutrition; a challenge to utility home service organizations. H. S. Mitchell. Am Gas Assn Mo 24:131-2 Ap '42

Better baking through magic eyes; photoelectric reflectometer used in testing ovens. M. Zare. Am Gas Assn Mo 23:453-4 D '41

Commercial gas equipment in military establishments. J. W. McNair. Gas Age 89:41-3+ My 7 '42

Contribution of the gas industry in the domestic field to national fuel economy. H. Hartley. Gas J (Lond) 238:461-2 Je 17 '42

Ever see a vitamin? Take a look! Home service program; Fall River (Mass.) gas works co. H. V. Potter. il Gas Age 89:47-8 My 7 '42

Food service for defense kitchens featured at National hotel exposition. Am Gas Assn Mo 23:448 D '41; Same. Gas Age 88:42 D 18 '41; Same cond. Am Gas J 155:42 D '41

Gas cookery in the Douglas Aircraft plants. L. S. Flint. il Am Gas J 157:21-3+ O '42

Gas kitchens feed a production army at Douglas Aircraft. il Am Gas Assn Mo 24:323 S '42

General Gas helps to mold an army; gas cooking for military camps. il Gas Age 90:43-6+ Jl 16 '42

Housing census: fuels used for cooking. Gas Age 90:21+ N 5 '42

Industrial nutrition; program for war workers gains national support. il Am Gas Assn Mo 24:301-2 S '42

Meat shrinkage not affected by fuel; gas and electric cooking compared. L. Ayers. Am Gas Assn Mo 24:214 Je '42

New counter gas appliances, your tools for future business. E. C. Sorby. Am Gas Assn Proc 1941:334-7

Relative cleanliness and costs of gas and electric deep fat frying. F. Crompton. il Am Gas J 155:40-2 D '41

Showing women food will win the war. il Gas Age 90:57-60 Jl 16 '42

Teaching girls the gas cooking way; Lone star gas company. L. L. Carley. il Gas Age 90:23+ S 10 '42

GAS cooking—*Continued*

Trailer houses emergency kitchen; Elizabethtown consolidated gas company. il Am Gas Assn Mo 24:90 Mr '42

Women in civilian defense chose gas for cookery schools. il Am Gas Assn Mo 23:421 D '41

Yield of certain wholesale cuts of beef roasted by gas and by electricity. L. Ayers. Gas Age 90:11-12 Ag 13 '42

See also

Gas stoves

GAS cutting

See also

Oxyacetylene cutting

GAS detectors

See also

Methane detectors

GAS distribution

Butterfly control valve for low pressure gas mains. diag Am Gas Assn Mo 24:304 S '42

Delivering dry gases in old manufactured gas systems; natural gas and butane-air gas. O. L. Kowalke. Gas Age 90:13-14+ Jl 30 '42

Distribution engineers tackle many new problems at seventeenth annual conference. Am Gas Assn Mo 24:238-9+ Je '42

Emergency shut-off of gas mains with inexpensive and removable material. P. W. Geldard. diags Am Gas Assn Mo 24:267-8 Jl-Ag '42; Same. Gas Age 90:12-13 Jl 30 '42

Gas comfort in war-worker housing projects. il map Gas Age 90:47-50 Jl 16 '42

Gas distribution as it effects post-war planning. W. Hodkinson and H. B. Taylor. Gas J (Lond) 239:134+ Jl 22 '42

Gas distribution; post-war problems. W. Hodkinson and H. B. Taylor. Gas J (Lond) 238:175, 177, 210+ Ap 29-My 6 '42

Gas for the Winfield Township defense housing project. F. Hudson. il plan Gas Age 89:10-11 Ap 23 '42

Long-distance pressure controls and gauges. E. C. McAninch. Gas Age 89:15-17+ Ja 1 '42

Natural gas in the U.S.A.; its production, distribution, and utilization. W. B. Poor. maps Mech Eng 64:369-72 My '42

Operating experience with automatic-closing valves in a transmission system. D. C. Palm. diag Gas Age 89:27-8+ My 21 '42

Preliminary report of survey of new developments in tools, methods and materials in gas distribution practice. Am Gas Assn Proc 1941:544-57

Regulation to maintain balanced pressure on gas system. R. W. Parker. il diags Pet Eng 13:36, 38, 40 Ap '42

Replanning gas distribution. G. G. Warne. Gas J (Lond) 238:419, 421; Discussion. 421 Je 10 '42

Report of the Philgas department of the Phillips petroleum company. F. T. Carpenter. Am Gas Assn Proc 1941:559-60

Standby equipment and policies. W. T. Ivey. il Gas Age 89:20-1+ Mr 26 '42

What'll we do for gas? maintaining supply under war conditions. L. A. Kirch. Am Gas J 157:25-8+ Jl '42

See also

Gas, Natural—Pipe lines
Gas flow
Gas holders
Gas mixing
Gas pipes

Cost

Pipe-line protection, what does it cost? summary of operating costs for five years of eight cathodic corrosion eliminators. S. A. Wright. Gas Age 90:18-19 Jl 30 '42; Same. Am Gas J 157:18, 21 Ag '42

Proper pressures in distribution systems in manufactured gas properties; cost data. E. C. Kollock. Gas Age 89:13-15+ F 12 '42

Standards of calorific value for gas. G. E. Foxwell. Gas J (Lond) 237:59-60, 63 Ja 14 '42

Long distance lines

See also

Gas, Natural—Pipe lines

GAS engine plants. See Power plants—Gas engine plants

GAS engineering

For gas engineering files and libraries; a modern system of classification. S. Shire. 115p loose-leaf $1.50 S. Shire, 1550 E. 63d st, Chicago '42

Gas service manual (cont). W. L. Riehl. diags Gas Age 88:34 N 20; 31-2+ D 4; 30+ D 18 '41; 89:27 Ja 1; 25-7 Ja 29; 29-30 F 12; 25-8 F 26: 33-4, 36+ Mr 12; 23-4 Je 18; 90: 25-9 Jl 30; 24-6 Ag 13; 26-8 Ag 27; 29-30 S 10; 27-8 S 24; 27-8, 36 D 31 '42

1942 American gas handbook. 14th ed 196p Am. gas journal, New York '42

See also

Gas and oil engines
Gas distribution
Gas heating
Gas lighting
Gas manufacture
Gas works

Examinations

Institution examinations and results. Gas J (Lond) 239:245-6, 251 Ag 12 '42

Study and teaching

Institute of gas technology in action. H. Vagtborg. Gas J (Lond) 239:246+ Ag 12 '42

University training and the gas industry. D. T. A. Townend. Gas J (Lond) 238:519-20, 523-4 Je 24 '42; Discussion. 239:103+, 209-10 Jl 15, Ag 5 '42

GAS engineers

Industrial gas engineer a valuable cog in war production. J. P. Brosius. Gas Age 90: 23-4 Jl 30 '42

GAS engines. See Gas and oil engines; Gas turbines

GAS explosions. See Explosions

GAS flow

Computing flow of gas through transmission lines; gas flow in simple systems. G. M. Stearns. Oil & Gas J 41:71-2 My 28 '42

Economics of gas pipe-line design; with cost data. F. W. Laverty and others. bibliog Gas Age 90:22-6+ Jl 2 '42

Effect of friction in air inlet and exhaust systems of internal-combustion engines. O. Adams. diags Pet Eng 13:33-4 Je; 92+ Ag '42

Flow manostat for various purposes, including the candy test. M. J. Proffitt. pl diags J Research Nat Bur Stand 29:143-55 Ag '42

Flow of gas-oil mixtures through media of uniform permeability. P. J. Jones. Oil & Gas J 41:34-5 Jl 2 '42

Flow of gas-oil-water mixtures through media of uniform permeability. P. J. Jones. diags Oil & Gas J 41:25 Jl 9 '42

Flow of homogeneous fluids through linear systems. P. J. Jones. Oil & Gas J 41:53-4 Je 4 '42

Flow of homogeneous fluids through radial systems. P. J. Jones. Oil & Gas J 41:35-7 Je 11 '42

Flow of natural gas in pipe lines. E. N. Kemler and N. Kulik. bibliog Gas Age 90:20-6 S 24 '42

Gas flow in branching lines. G. M. Stearns. Oil & Gas J 41:53 Je 18 '42

Gas flow in loop systems. G. M. Stearns. Oil & Gas J 41:59 Je 4 '42

Gas flow in series lines. G. M. Stearns. Oil & Gas J 41:51 Je 11 '42

How friction and forced draft affect stratification in kilns and dryers. E. Ledoux. diags Chem & Met Eng 49:92-5 Ja '42

Measurement of the flow of liquids and gases. E. Ower. bibliog il diags Inst Chem Eng Trans 18:87-104; Discussion. 104-14 '40

Observed performance of some experimental chimneys. R. S. Dill, P. R. Achenbach and J. T. Duck. il diags Heating-Piping 14: 252-9; Discussion. 259-60 Ap '42

GAS flow—*Continued*

Pressure drop calculations for flow in pipes. J. A. Hardy and E. N. Kemler. Heat & Ven 39:43-9 Ag '42

Town gas and kinematic viscosity. A. Coe. diag plan Gas J (Lond) 237:390, 393, 435, 437; 238:62, 64, 67+ Mr 18-25, Ap 8 '42; Discussion. 238:102 Ap 15 '42

See also

Air flow

Gas meters

GAS furnaces. See Gas as fuel

GAS gangrene. See Gangrene, Gas

GAS heaters

Gas consumption of unit heaters. il Dom Eng 160:62+ Ag '42

Gas fires of the inset type; patent. diag Gas J (Lond) 236:177 O 29 '41

Gas fires; patent. diags Gas J (Lond) 236:105 O 15 '41

Gas fires; patent. diag Gas J (Lond) 236:395 D 10 '41

Location of unit heaters. il Dom Eng 159:52-3+ Je; 160:54-5+ Jl '42

Location of unit heaters and calculation of sizes. il Dom Eng 160:50-1 S '42

Radiant heating units; patent. diags Gas J (Lond) 236:289 N 19 '41

Silent beam gas fire. Gas J (Lond) 237:97 Ja 21 '42

Surface combustion corporation heavy duty unit heater. il Blast F & Steel Pl 30:160 Ja '42

Unit heaters; sizing for industrial use. il Dom Eng 159:64-5+ My '42

See also

Gas water heaters

Testing

Balloons in reading temperatures; raising thermometers to various levels, in testing gas heaters in machine shop. diags Sheet Metal Worker 33:42+ O '42

GAS heating

Air openings to furnace rooms. C. W. Pollock. Gas Age 90:27-8 Ag 13 '42

Birmingham budget plan helps sell heating. G. H. Watson. il Gas Age 89:24 Ap 9 '42

Contribution of the gas industry in the domestic field to national fuel economy. H. Hartley. Gas J (Lond) 238:462+ Je 17 '42

Economic desirability of the house heating load and its collateral advantages in connection with other domestic services. Am Gas Assn Proc 1941:255-9

Gas heat for army recreational group in St Louis. J. Kearns. il Am Gas J 156:36 F '42

Gas heat for individual apartments. il plan Sheet Metal Worker 33:38, 40 Ag '42

Gas heating research house erected at Los Angeles, Calif. F. A. Herr. il plan Am Gas J 156:25-6 My '42

Gas service manual; automatic controls. W. L. Riehl. diags Gas Age 90:25-9 Jl 30 '42

Gas service manual; furnaces and boilers. W. L. Riehl. diags Gas Age 89:33-4, 36+ Mr 12 '42

Gas service manual; heat requirements of buildings. W. L. Riehl. diags Gas Age 90:24-6 Ag 13; tables 27-8 Ag 27 '42

Gas service manual; history of heating. W. L. Riehl. Gas Age 89:27 Ja 1 '42

Gas service manual; space heating; warm-air systems. W. L. Riehl. diags Gas Age 89:25-7 Ja 29 '42

Gasco guide for improving forced warm air installation practices. H. P. Morehouse. Am Gas Assn Mo 23:430-1 D '41; Same. Am Gas J 155:50 D '41; Same. Gas Age 89:24-5+ F 12 '42

How gas heat de-smoked Salt Lake City. R. Latimer. Gas Age 90:18 Ag 13 '42

How Pittsburgh is promoting saving of fuel. il Gas Age 90:49-50 O 8 '42

Increasing your heating business in commercial establishments. E. L. Payne. diags plan Am Gas Assn Proc 1941:323-7

New commercial standard for floor furnaces. il Gas Age 89:11-13+ Mr 26 '42

New sales methods; A. G. A. subcommittee report. Am Gas Assn Proc 1941:262-96

No complaints from the district. L. W. Andrew. Gas J (Lond) 240:26, 62, 67; Discussion. 67+ O 7-14 '42

Post-war housing; possibilities of gas and coke for heating; architectural design and heating. T. Potterton. diag plans Gas J (Lond) 238:318+ My 27 '42

Relative fuel equivalents for individual heating purposes and relative ton mile haulage requirements; report of sub-committee of the Informal fuel committee of the New England gas companies. Am Gas J 157:41-4 N '42

Why the gas industry needs detailed market studies. H. O. Loebell. Gas Age 89:15-18+ Ap 23 '42

See also

Boilers, Heating—Gas firing

Gas heaters

Gas water heaters

GAS heating, Industrial. See Gas as fuel

GAS holders

New water-sealed gas holder has concrete water-sealing tank. F. A. Herr. il diags Am Gas J 156:9-11 Je '42

65-foot orange just a gas holder. Am Gas Assn Mo 24:360 O '42

Weighting gasholders to increase gas pressure. L. Bott. il diags Gas J (Lond) 236:245-6 N 12 '41

Control

Centralized control lowers holder operating costs. R. Trautschold. il Gas Age 89:27+ Mr 12 '42

Ice protection

Precautions against frost in gas-works. G. M. Gill. Gas J (Lond) 236:467, 469 D 24 '41

Protection

Protection of holders during air raids. A. D. Harrison. il Gas Age 89:14 Mr 26 '42

Repair

Bomb-damaged gasholder quickly repaired. il Gas J (Lond) 240:21 O 7 '42

GAS in air conditioning

Gas-fired absorption system on display by California utility. il Heat & Ven 39:62 Ap '42

Gas heat aids windowless machine shop. G. H. Watson. il Gas Age 90:24-5 Ag 27 '42

Gas in the Douglas Aircraft factory. F. A. Herr. il Am Gas J 156:11-13 F '42

In the South, it's gas air conditioning; Canal bank and trust building, New Orleans. J. E. Kearns. il Am Gas J 156:35-6 My '42

New customers service order system and gas air conditioning equipment; new office building annex of Southern California gas company. F. A. Herr. Am Gas J 155:23+ D '41

New Orleans public service sold itself first; installs gas air conditioning in its own building. R. Latimer. il Gas Age 89:24+ Je 4 '42

Progress in gas utilization research during 1941. il Am Gas Assn Proc 1941:417-23

Report of joint committee on gas summer air conditioning. il Am Gas Assn Proc 1941:340-3

Research in gas; summer air conditioning at A.G.A. laboratories. R. M. Conner. il diag Am Gas Assn Mo 24:306-9 S '42

Test refrigerating effectiveness of gas air conditioning equipment. il Am Gas Assn Mo 24:159 Ap '42

GAS in refrigeration

Annual report of commercial refrigeration committee. il Am Gas Assn Proc 1941:349-50

See also

Refrigerators, Gas

GAS industry

Discussion on Institution symposium papers 1941. Gas J (Lond) 238:364-5 Je 3 '42

See also

Gas, Natural
Gas appliance industry
Gas appliances
Gas as fuel
Gas companies
Gas distribution
Gas heating
Gas manufacture
Gas rates
Gas research
Gas stoves
Gas works

Advertising

Advertising is more essential during the war. Gas Age 90:27 S 10 '42

Aims and functions of publicity (cont). Gas J (Lond) 236:456-7 D 24 '41

Beware of advertising that wins the argument but loses the sale. W. L. Jones. Am Gas Assn Mo 24:23 Ja '42

Changing the thinking of a city; Chattanooga, Tenn. gas company. W. A. Hudson. il Gas Age 89:16-18+ F 12 '42

Conservation now? wartime advertising policy; comment by gas industry officials. Gas Age 89:49-51 My 7 '42

Defense advertising? yes, but let's make it informative; Binghamton gas works. R. E. Williams. il Am Gas Assn Mo 24:9-10 Ja '42

Gas industry's national advertising program. Am Gas J 157:47-8 O '42

How Pittsburgh is promoting saving of fuel. il Gas Age 90:49-50 O 8 '42

Industrial nutrition; program for war workers gains national support. il Am Gas Assn Mo 24:301-2 S '42

Meals that build morale is gas advertising theme. il Am Gas Assn Mo 24:132 Ap '42

National advertising; war effort series opens seventh annual campaign. H. C. Wolf. il Am Gas Assn Mo 24:295-7 S '42; Same. Gas Age 90:13-14+ S 10 '42

National better copy awards made at advertising convention. Am Gas Assn Mo 24:269 Jl-Ag '42

Need for advertising in war time. D. C. Schnabel. il Gas Age 89:13-14+ Ap 23 '42

New advertising; gas campaign aids government's program. il Am Gas Assn Mo 24:141 Ap '42; Same. Gas Age 89:19 Ap 9 '42

New themes in advertising. R. R. Kirkey. Am Gas Assn Mo 24:62 F '42

Pack a lunch a man can work on; nutrition, theme of Bridgeport gas light company's campaign. il Am Gas Assn Mo 24:168-72 My '42

Prize contests for gas companies. Z. Kaufman. Gas Age 88:63-4 O 23; 24-5 D 18 '41; 89:26 F 12; 28-9 Mr 12 '42

Report of national advertising committee of the Industrial and commercial gas section. il Am Gas Assn Proc 1941:344-8

Servel and gas companies unite for nutrition in industry. il Gas Age 90:11-14+ S 24 '42; Same cond. Am Gas J 157:40-2 O '42

Servel begins advertising nutrition in industry. il Gas Age 90:72-4 O 8 '42

Showing women food will win the war. il Gas Age 90:57-60 Jl 16 '42

Utility advertising in war time. D. M. DeBard. Gas Age 90:15-17+ S 24 '42

War and post-war gas sales, service and research survey; includes material received from 32 manufactured, natural and mixed gas companies. E. J. Boyer. il diags Am Gas Assn Mo 24:343-57 O '42

See also

Gas stoves—Advertising

Exhibitions

Food service for defense kitchens featured at National hotel exposition. Am Gas Assn Mo 23:448 D '41; Same. Gas Age 88:42 D 18 '41; Same cond. Am Gas J 155:42 D '41

Industrial gas makes striking effect at National metal congress and exposition. il Gas Age 88:38+ D 4 '41

Report of committees on displays at national industrial expositions. il Am Gas Assn Proc 1941:351-5

Finance

See Gas companies—Finance

Laws and regulations

See Gas companies—Law; Gas companies—Regulation

Merchandizing

American gas association, Industrial and commercial gas section meeting, Atlantic City, Oct. 20-22. Am Gas Assn Mo 23:403-6+ N '41

American gas association, Residential section meeting, Atlantic City, Oct. 20-22. Am Gas Assn Mo 23:398-400 N '41

Gas promotion in an abnormal market; Washington (D.C.) gas light company. A. J. Maloney and J. E. West. Gas Age 89:18-19 Ja 29 '42

Gas service manual; good sales principles. W. L. Riehl. Gas Age 90:29-30 S 10 '42

Gas service manual; miscellaneous sales hints. W. L. Riehl. Gas Age 90:27-8 S 24 '42

Gas service manual; selling your service. W. L. Riehl. Gas Age 90:26-7 Ag 27 '42

Gas service promotion in wartime. D. M. De Bard. Am Gas Assn Mo 24:107-9 Mr '42; Same. Am Gas J 156:9-12 Mr '42; Same. Gas Age 89:22-4 Mr 26 '42

Increasing your heating business in commercial establishments. E. L. Payne. diags plan Am Gas Assn Proc 1941:323-7

Industrial and commercial gas conference, Pittsburgh, March 12-13. Gas Age 89:9-11 Mr 26 '42; Am Gas Assn Mo 24:153-4+ Ap '42; Am Gas J 156:18-20 Ap '42

Industrial gas keeps pace. C. B. Phillips. Am Gas J 156:30-2 My '42

Marketing problems under war conditions. H. V. Coes. Am Gas J 156:30-3, 44 Je '42

New sales methods; A. G. A. subcommittee report. Am Gas Assn Proc 1941:262-96

Opportunities I see for selling commercial gas. O. F. Keune. Am Gas Assn Proc 1941:330-4; Same cond. Am Gas Assn Mo 24:70-2 F '42

Planning for post-war marketing. W. J. Grover. Gas Age 90:31-2+ O 22 '42

Production for war is keynote of A.G.A. industrial and commercial meetings in New Orleans. Am Gas Assn Mo 24:235-6 Je '42

Promotional policies in the national emergency. H. C. Wolf. Am Gas Assn Proc 1941:22-5; Same cond. Am Gas Assn Mo 23:381-3+ N '41; Same cond. Am Gas J 155:41-2 N '41; Excerpts. Gas Age 88:30-1 N 20 '41

Prospective effects of priorities on industrial gas sales. W. D. Gay. il Gas Age 88:11-13+ D 4 '41

Public service company of Colorado takes case to independent dealers; establishment of Dealers and builders service department. H. Padgett. Am Gas J 157:32 Jl '42

Report of the gas engine power committee for 1941. il diag Am Gas Assn Proc 1941:373-84

Sales policies for today and tomorrow. G. F. B. Owens. Gas Age 90:9-11 Jl 2 '42

Series of talks by company executives on industrial gas at work in production for national defense. F. H. Adams and others. Am Gas Assn Proc 1941:307-22

Tell the dealers all the facts. F. Talcott. Gas Age 89:27-8+ F 12 '42

Today and tomorrow, pointing the way; views of gas company executives. Gas Age 88:13-16 N 20; 16-18 D 4; 17-18+ D 18 '41; 89:14+ Ja 1 '42

War and post-war gas sales, service and research survey; includes material received from 32 manufactured, natural and mixed gas companies. E. J. Boyer. il diags Am Gas Assn Mo 24:343-57 O '42

War-time relations with our industrial and commercial customers. J. P. Leinroth. Gas Age 89:17-18 Mr 26 '42; Same. Am Gas J 156:28-9 Ap '42

What can the gas industry do to help to win the war? F. C. Smith. Am Gas J 156:18, 21 Mr '42

GAS industry—Merchandizing—*Continued*

Why the gas industry needs detailed market studies. H. O. Loebell. Gas Age 89: 15-18+ Ap 23 '42

See also

Gas appliance industry
Gas appliances—Merchandizing
Gas appliances, Domestic—Merchandizing
Gas companies—Appliance selling
Gas companies—Salesmen
Gas in air conditioning
Gas stoves—Merchandizing

Statistics

Gas and coal products, 1941. Chem & Met Eng 49:101-2 F '42

Gas industries expands sales; manufactured and natural gas revenues, 1929-1941; charts. Barron's 22:4 Ja 26 '42

Gas utilities sales rise sharply during first six months of 1942. E. R. Martin. Am Gas Assn Mo 24:311-12 S '42

1941 highlights. G. S. Hawley. Am Gas Assn Mo 24:3-6+ Ja '42; Same. Gas Age 89:25-7 Ja 15 '42; Same cond. Am Gas J 156:9-11 Ja '42

War measures

Accountants face another major job; plans of Accounting section of the American gas association. L. L. Dyer. Gas Age 89: 37+ Ja 15 '42

Air-defense methods for repair of gas mains damaged by bombs. G. E. Szekely. diags Am Gas Assn Mo 24:127-30+ Ap '42

Air raid precautions for gas undertakings. R. J. Bennie. Am Gas J 156:25-30 Ja '42

A.G.A.'s war stride; total effort of association directed to vital tasks. J. W. West, jr. Am Gas Assn Mo 24:173-5 My '42

Brooklyn Union plans for defense. C. E. Paige and others. il Gas Age 88:17-28 N 20 '41; Same cond. Am Gas J 155:25-8, 31-2 N '41; Excerpt. Am Gas Assn Mo 23: 378-80+ N '41

Defense in Mobile; a plan of action to protect personnel and property; Mobile gas service corp. M. White. il Am Gas Assn Mo 24:176-7 My '42

Defense training; Washington speeds program to protect gas supply. H. B. Noyes. Am Gas Assn Mo 24:88-90 Mr '42

England, its civilian protection and gas utility operations in war time. D. M. DeBard. Am Gas Assn Proc 1941:121-5; Same. Gas Age 88:48, 52-4 N 6 '41; Same. Am Gas J 155:22-4 N '41

Experiments in extinguishing fires caused by air raids. Am Gas Assn Mo 24:158 Ap '42

Gas company operation during war. A. I. Phillips. Am Gas J 156:14-17 Ap '42

Gas company proves itself a good citizen in war time. il Gas Age 90:61-4 Jl 16 '42

Gas industry in war. E. R. Acker. Gas Age 90:26-8+ O 22 '42; Same. Am Gas Assn Mo 24:395-9 N '42; Same. Am Gas J 157:16-18+ N '42

Gas industry's defense problem. G. F. B. Owens. Gas Age 89:19+ Mr 26 '42

Gas production engineers face problem of meeting wartime demand. A. Forward. Am Gas Assn Mo 24:213-14 Je '42

Geared for war; gas industry sets up streamlined committee. Am Gas Assn Mo 24:43-5 F '42

Guarding the gas supply in Australia. Gas Age 90:23-4 Ag 27 '42

Home service departments in the gas industry cooperate in national defense. J. L. Roberts. Am Gas Assn Proc 1941:243-55 bibliog(p248-52)

Home service enlists; highlights of community activities to aid war program. J. McQueen. il Am Gas Assn Mo 24:94-6 Mr '42

Home service in the South makes vital contributions to war effort. J. McQueen. il Am Gas Assn Mo 24:318-21 S '42

How British utility accountants met the blitz. E. N. Keller. Am Gas Assn Mo 24: 230-2 Je '42

How can the gas industry contribute most effectively toward winning the war through the medium of conserving materials. A. S. Johnson. Gas Age 89:20-2+ F 26 '42

How gas companies assure continuous service. il Gas Age 90:51-4+ Jl 16 '42

How to defend an industrial plant and protect it from enemy air raids. Am Gas Assn Mo 24:48-9+ F '42

Industrial gas engineer a valuable cog in war production. J. P. Brosius. Gas Age 90: 23-4 Jl 30 '42

London gas company system for dealing with bomb damage. M. Milne-Watson. Pub Util 29:509-10 Ap 9 '42

London gas company's system for dealing with bomb damage on the district. Gas Age 89:17 Ja 29 '42

Maintaining service. H. R. Cloud. Gas Age 89:22-3+ Ap 23 '42

Marketing problems under war conditions. H. V. Coes. Am Gas J 156:30-3, 44 Je '42

National and industrial survival. E. H. Schell. Am Gas J 156:25-7+ Ap '42

National defense and the gas industry. S. J. Beale. Am Gas J 156:12-16, 42-4 Ja; bibliog 15-18, 21 F '42; Same cond. Gas Age 88: 19-23+ D 18 '41

New blackout paints shield plants from infra-red photography. Gas Age 89:16 Ja 29 '42

Organization of Civilian defense at Birmingham. Gas Age 89:30+ Mr 12 '42

Protection measures in the defense program. C. D. Merritt. Gas Age 90:9-11 Jl 30 '42

Protection of holders during air raids. A. D. Harrison. il Gas Age 89:14 Mr 26 '42

Protection of property and personnel in the national emergency. E. E. Ellis. Am Gas J 157:7-10 Jl '42

Servel and gas companies unite for nutrition in industry. il Gas Age 90:11-14+ S 24 '42; Same cond. Am Gas J 157:40-2 O '42

Servel movement will help to speed war production; industrial nutrition plan. il Gas Age 90:78+ Jl 16 '42

Some blackout tips from the Southern California gas company. L. S. Flint. il Am Gas J 156:42-3 My '42

Trailer houses emergency kitchen; Elizabethtown consolidated gas company. il Am Gas Assn Mo 24:90 Mr '42

Utility operation in war time; abstract. D. M. De Bard. Nat Safety N 45:95-6 Ap '42

War activities of the American gas association. E. R. Acker. Gas Age 90:35-7+ Jl 16 '42

War and savings of materials and effort: a task for property records. R. L. McVey. Am Gas Assn Mo 24:366-8 O '42

War board orders and their application to the natural gas industry. M. T. Bennett. Am Gas Assn Mo 24:387-90 N '42; Same. Am Gas J 157:26-7+ N '42

War emergency activities of the Southern California gas co. F. A. Herr. Am Gas J 156:10-12 Ap '42

W.P.B. priority rulings. Am Gas J 156:29-32 Mr '42

War production board restricts new uses of manufactured gas. Heating-Piping 14:612 O '42

War requirements in the natural gas districts; symposium. Gas Age 90:17-18+ O 22 '42

War service first is home service creed. J. McQueen. il Am Gas Assn Mo 24:190-2+ My '42

Wartime trends in appliance servicing and personnel training. J. M. McCaleb and J. L. Johnson. Am Gas Assn Mo 24:303-4 S '42

Water gas; war problems. F. J. Pfluke. Am Gas J 157:21 N '42

What about restrictions? W. E. Derwent. Am Gas J 156:22-3 Ap '42

What'll we do for gas? L. A. Kirch. Am Gas J 157:25-8+ Jl '42

What's ahead from the appliance manufacturers' viewpoint. H. T. Ryan. Am Gas Assn Proc 1941:210-13; Discussion. 213-21

Year in prospect. J. F. Robinson. Gas Age 89:31 My 7 '42

GAS industry—War measures—*Continued*

Bibliography

Bibliography on national defense and air raid precautions for public utilities. L. Hilt, comp. Am Gas Assn Mo 23:283-6; 24:46-7 Jl-Ag '41, F '42

Australia

Australian gas industry in wartime. A. E. Hutchison. Gas J (Lond) 238:98+ Ap 15 '42

Canada

How industrial gas is promoting Canada's war effort. D. H. Thorburn. Am Gas Assn Mo 24:193-4 My '42

30 months of war; their effect on Canadian gas company operation. C. M. Sieger. Am Gas Assn Mo 24:215 Je '42

Great Britain

After the truce; reorganisation of the gas industry. Elec R (Lond) 129:536-7 N 14 '41

England, its civilian protection and gas utility operations in war time. D. M. DeBard. Am Gas Assn Proc 1941:121-5; Same. Gas Age 88:48, 52-4 N 6 '41; Same. Am Gas J 155: 22-4 N '41

Gas industry of the future. Gas J (Lond) 239:242+, 280-1, 317-18, 352, 355, 385-6, 429-30+ Ag 12-S 16 '42; Discussion. 239:498 S 30 '42

Gas industry post-war. H. N. Dann. Gas J (Lond) 237:246, 249 F 18 '42; Discussion. 237: 281-2 F 25 '42

How British utility accountants met the blitz. E. N. Keller. Am Gas Assn Mo 24: 230-2 Je '42

How London's gas men defeat raiders; personal narrative. il Gas Age 88:32-3 N 20 '41

Industry, the Gas research board, the chemist. E. Evans. Gas J (Lond) 239:433-4 S 16 '42; Discussion. 239:465-6 S 23 '42

Letter from England provides war protection information. J. Jamieson. Am Gas Assn Mo 24:302 S '42

London gas company system for dealing with bomb damage. M. Milne-Watson. Pub Util 29:509-10 Ap 9 '42

Manchester district association of gas engineers meeting, Manchester, Sept 1. Gas J (Lond) 239:507, 509; 240:31 S 30-O 7 '42

Manchester district association of gas engineers presidential address on co-ordinated national fuel policy. J. E. L. Cooper. Gas J (Lond) 238:133-4+ Ap 22 '42

1941, and then what? L. P. Ingram. Gas J (Lond) 236:209-10; Discussion. 210+ N 5 '41

1941; review. Gas J (Lond) 236:491-4, 497-8, 501-2, 505 D 31 '41

Papers before Manchester and district junior gas association; post-war planning. J. Albinson and others. Gas J (Lond) 239:130, 133-4, 139; Discussion. 139, 141 Jl 22 '42

Past, present and future. W. N. Baird. Gas J (Lond) 236:287 N 19 '41

Policy and scope of the Gas research board. E. V. Evans. Gas J (Lond) 238:406-8 Je 10 '42; Discussion. 238:524, 529; 239:166 Je 24, Jl 29 '42

Post-war planning. R. Cowie. Gas J (Lond) 239:93-4; Discussion. 97 Jl 15 '42

Post-war planning and the gas industry. E. O. Rose. Gas J (Lond) 236:134+ O 22 '41

Presidential address before Eastern counties gas engineers' and managers' association. F. H. Robinson. Gas J (Lond) 238:322+ My 27 '42; Proposed scheme of grouping; map. 238:366 Je 3 '42

Presidential address before Institute of gas engineers. F. J. West. Gas J (Lond) 238: 455-6 Je 17 '42; Same cond. Engineering 153:515 Je 26 '42

Quo vadis? problems of the gas industry. E. W. Smith. Gas J (Lond) 237:429-30 Mr 25 '42

Second twelve months of war. Gas J (Lond) 236:166+ O 29 '41

Society of British gas industries; report of the council for 1941-1942. Gas J (Lond) 238:281-2 My 20 '42

Southern association of gas engineers and managers; presidential address. G. Le B. Diamond. Gas J (Lond) 238:18, 21 Ap 1 '42

University training and the gas industry. D. T. A. Townsend. Gas J (Lond) 238:519-20, 523-4 Je 24 '42; Discussion. 239:103+, 209-10 Jl 15, Ag 5 '42

Wales and Monmouthshire association of gas engineers and managers 37th annual meeting. Gas J (Lond) 238:363-5 Je 3 '42

Wartime miscellany. J. Powdrill. Gas J (Lond) 239:466 S 23 '42; Discussion. 239: 502+ S 30 '42

Woman's part in the British gas industry. H. H. Hallinan. il Am Gas J 157:16-18 O '42

See also

Gas supply—Great Britain

Michigan

Defense problems in the Great Lakes region. J. W. Batten. Gas Age 88:11-12+ N 20 '41

New England

New England gas industry and the war. C. G. Young. Am Gas J 156:7-9+ Ap '42; Same. Gas Age 89:13-15 Ap 9 '42

New Zealand

Gas and electrical development in New Zealand. A. S. Fitzpatrick. Gas J (Lond) 238: 246 My 13 '42

Vital matter for New Zealand gas industry. J. Hungerford. Gas J (Lond) 238:141 Ap 22 '42

Scotland

Calorific value of gas; yesterday, today, and to-morrow. J. Jamieson. Gas J (Lond) 236: 426, 431 D 17 '41; Discussion. 237:21-2+, 64, 98+ Ja 7-21 '42

North British association of gas managers; presidential address. R. D. Keillor. Gas J (Lond) 238:95-6 Ap 15 '42

United States

After V-day what? F. H. Adams. Am Gas Assn Mo 24:292-4+ S '42

America's war industry turns to gas to surpass production peaks. F. H. Adams. il Am Gas Assn Mo 24:133-7 Ap '42

Business planning for V day. M. P. McNair. Am Gas J 156:22-4 My '42

How can the gas industry contribute most effectively toward winning the war through the medium of conserving materials. A. S. Johnson. Gas Age 89:20-2+ F 26 '42

1941 highlights. G. S. Hawley. Am Gas Assn Mo 24:3-6+ Ja '42; Same. Gas Age 89: 25-7 Ja 15 '42; Same cond. Am Gas J 156: 9-11 Ja '42

Panel discussion; regional problems presented to gas utilities in the defense program. A. F. Bridge and others. Am Gas Assn Proc 1941:125-36

Priorities and the gas industry; with statement by Senator O'Mahoney. Am Gas J 155:7-8 D '41

Progress in the manufactured-gas industry. W. D. Gay. Gas Age 89:20-1+ Ap 23 '42

Some thoughts on the economic position of the manufactured gas industry. R. A. Sherman. bibliog Am Gas Assn Proc 1941:563-70

Today and tomorrow, pointing the way; views of gas company executives. Gas Age 88:13-16 N 20; 16-18 D 4; 17-18+ D 18 '41; 89:14+ Ja 1 '42

War and post-war gas sales, service and research survey; includes material received from 32 manufactured, natural and mixed gas companies. E. J. Boyer. il diags Am Gas Assn Mo 24:343-57 O '42

Whither are we going? J. F. Robinson. Am Gas Assn Mo 24:163-6 My '42

See also

American gas association

Gas, Natural—United States

Gas supply—United States

GAS industry and the plumbing trade

Maintenance and repair, contractor's key to business; water heaters; contractor-utility cooperation. Dom Eng 160:48-9 O '42

GAS laboratories

See also American gas association—Appliance testing laboratory

GAS leakage

Changes in composition of manufactured gas in contact with soil; investigation in connection with leaking mains. J. F. Anthes. Am Gas Assn Proc 1941:445

GAS lifts

Basic principles of closed type flow-valve installations. J. E. Halferty. diags Oil & Gas J 40:40-1+ F 19 '42

Gas jetting used to lift oil at Aransas Pass field. N. Williams. il Oil & Gas J 40:33-4 F 5 '42

Gas-lift kick-off pressure. B. B. Boatwright. diag Oil & Gas J 40:54 Ap 9 '42

Practical application of flow valve installation principles. J. E. Halferty. diags Oil & Gas J 40:46-7, 49, 64-6 N 27 '41

Tubing perforators to solve special gas-lift problems. G. G. Kingelin. il Oil & Gas J 41:120 Je 25 '42

GAS lighting

Factory lighting; gas lighting installation. il Light & Lighting 35:56 My '42

GAS manufacture

Carbonization of Durham coals in continuous vertical retorts. H. Greenwood. Gas J (Lond) 239:318 Ag 26 '42; Discussion. 239: 471+ S 23 '42

Degree and extent of cracking of gas oils. H. E. Ferguson. Gas Age 90:13-16 Ag 27; 24-6 S 10 '42

Flexibility of carbonizing plant under wartime conditions. T. C. Finlayson. Gas J (Lond) 236:458+ D 24 '41

Gas was ready yesterday for today's demands. il Gas Age 90:55-6+ Jl 16 '42

Industry, the Gas research board, the chemist. E. Evans. Gas J (Lond) 239: 433-4 S 16 '42; Same abr. Chem Age (Lond) 47:313-15 O 10 '42; Discussion. Gas J (Lond) 239:465-6 S 23 '42; Chem Age (Lond) 47: 315-16 O 10 '42

Investigations concerning the pressures developed during the carbonization of coal. W. Fuchs and others. Am Gas Assn Proc 1941:446-7

Maintaining gas manufacturing plants for peak load and emergency use in a city using natural gas. G. T. Bentley. map Am Gas Assn Proc 1941:572-7; Same. Gas Age 87: 20-3+ Je 19 '41

Manufacture of peak load gas; patent. diags Gas J (Lond) 237:313, 319 Mr 4 '42

Methods of increasing water-gas or coal-gas capacities; producing supplementary oil gas, and using carborundum retort bottoms. R. F. Gibson. Gas Age 89:31-2 Mr 12 '42

Processing and carbonization of coal. A. C. Fieldner. il Min & Met 23:103-4 F '42

Reduction in declared calorific value; its implications under wartime conditions. E. G. Stewart. Gas J (Lond) 239:21-2+ Jl 1 '42

Scientific control in the retort house and its contribution to national fuel economy. T. C. Finlayson. Gas J (Lond) 238:408, 411-12 Je 10 '42; Same. Engineering 154:17-18 Jl 3 '42; Discussion. Gas J (Lond) 239:61-2+ Jl 8 '42

Tar cracking to increase gas and benzole yield; application to continuous vertical retorts. Gas J (Lond) 238:22 Ap 1 '42

Technicians' work takes on new significance in all-out war program. Am Gas Assn Mo 24:420-2 N '42

See also

Coal distillation
Coke manufacture
Coke-oven gas
Gas, Oil
Gas, Water—Manufacture
Gas companies
Gas producers
Gas purification
Gas retorts
Gas works

By-products

Benzole recovery at a very small gas-works. il diags Gas J (Lond) 236:389-90 D 10 '41

Benzole recovery by the oil washing process. L. Silver and G. U. Hopton. Soc Chem Ind J 61:37-45 Mr '42

By-product ammonia and sulphate of ammonia; general preference order M-163. Am Gas J 157:33 Jl '42

Dehydrating bunker C tar emulsion and coke-oven tar emulsion. C. J. Leuders. Gas Age 89:7 Je 18 '42

Manufacture of ammonium chloride from gas liquor. R. Walker and H. C. Applebee. Gas J (Lond) 236:98, 103; Discussion. 103, 105 O 15 '41

New vision in an old industry; what Portland gas & coke co. is doing to overcome decline in manufactured gas sales. C. MacDonald. Barron's 22:9 Mr 2 '42

Presidential address before North of England gas managers' association. S. W. A. Wikner. Gas J (Lond) 238:251 My 13 '42

Recovery of benzole by refrigeration. A. Allen. diag Gas J (Lond) 238:369-70; Discussion. 370+ Je 3 '42

Recovery of pyridine bases from coke oven gas and methods for determining them. H. J. Meredith. flow diag bibliog Am Gas Assn Proc 1941:656-64; Excerpt. Am Gas J 155: 68-9, 77-8 N '41; Same. Gas J (Lond) 237: 166, 169 F 4 '42; Discussion. Am Gas Assn Proc 1941:664-7

Refining of benzole; patent. Gas J (Lond) 236:253 N 12 '41

See also

Ammonia
Benzol (commercial benzene)
Coke

Complete gasification process

Future of coke. J. G. Bennett. Gas J (Lond) 237:289, 314 F 25-Mr 4 '42; Same. Engineering 153:237, 244-5 Mr 20-27 '42

GAS masks

Construction of an emergency civilian gas mask. H. G. Tanner. il diags J Chem Educ 19:322-6 Jl '42

Converting for Uncle Sam; Allied plastics company gas-mask lenses. E. F. Lougee. il Mod Plastics 19:58-9+ Jl '42

Making activated charcoal for gas masks; abstract. M. E. Barker. Chem & Met Eng 49:215-16 S '42

Molding an airtight meter for gas mask canisters; Resinox. il Mod Plastics 20:51+ N '42

New materials meet an old threat; with specifications for plastic gas masks parts of the Chemical warfare service. il Mod Plastics 19:35-43+ Je '42

Plastic lenses. Business Week p61-2 S 26 '42

GAS measurement

Applying the mechanical integrator to orifice meter measurement. J. L. Cottrell. il Pet Eng 13:71-2, 74 Je; 51-2, 54+ Jl '42

Gas volumes in modern furnaces. H. M. Brownrigg. diags Can Min J 63:225-31 Ap '42; Correction. 63:314 My '42

Measurement of gases; electrical methods of computation and analysis. T. T. Baker. il diag Elec R (Lond) 130:41-2 Ja 9 '42

Use of a McLeod gauge in measuring small volumes; applications to determination of small quantities of helium. N. B. Keevil, R. F. Errington and L. T. Newman. diags R Sci Instr 12:609-11 D '41

See also

Gas flow
Gas meters

Bibliography

Bibliography of gas meter and metering. Am Gas Assn Proc 1941:473-522 bibliog(230 titles, with summaries, p517-22)

GAS meters

Elements of orifice meter operation and maintenance. J. W. J. Bercher. diags Pet Eng 13:86, 88 N; 44+ D '41; 86+ Ja '42

GAS meters—*Continued*

Industrial metering. A. D. MacLean. il diag Gas Age 87:28-33 Je 19 '41; Am Gas J 157:24-6, 29-30, 60 O '42

Measurement of industrial gas by displacement meters. J. C. Diehl. Am Gas J 156:13-17 My '42

Metering flow; quantity meters. diags Power 86:100-2 F '42

Metering gas in grid schemes. il diag Gas J (Lond) 236:318+ N 26 '41

Separate meters for different apartments; Commission rulings. Gas Age 89:28 Ja 1 '42

Simpler gas meters; patent. diags Gas J (Lond) 239:288 Ag 19 '42

Bibliography

Bibliography of gas meter and metering. Am Gas Assn Proc 1941:473-522 bibliog(230 titles, with summaries, p517-22)

Diaphragms

Meter maintenance. L. B. Richards. il Gas Age 90:19-22+ Ag 27 '42

Reoiling of gas meter diaphragms using a submersion method. A. Guell. il diags Am Gas Assn Mo 24:74-5+ F '42

Repair

Meter-shop practice. M. J. Jackson. Gas Age 89:16+ Mr 26 '42

Reassembling gas meters with low-tin-content solders. C. P. Xenis and A. F. Kochendorfer. il Gas Age 90:44-5, 60+ O 8 '42; Same. Am Gas Assn Mo 24:340-2+ O '42; Same. Am Gas J 157:11-15 O '42

Testing

Periodic testing of meters; table showing length of time gas meters may remain in service in states where Public service commission rules provide for periodic testing. L. Hilt. Am Gas Assn Mo 24:403 N '42

Supplementary soldering experiments with low tin-content solders. Gas Age 90:19-20+ N 5 '42

GAS mixing

Alternative and auxiliary gases from liquefied petroleum products. C. G. Segeler. Am Gas Assn Proc 1941:100-21 bibliog(p110-11); Same. Am Gas J 155:49-53 N; 25-8, 52-4 bibliog(p53-4) D '41

Interesting developments concerning the saving of gas oil by mixing high B.t.u. coke oven gas and blue gas. R. E. Kruger. Am Gas Assn Proc 1941:635-43; Same. Am Gas Assn Mo 24:371-5 O '42; Same cond. Gas Age 88:28-30+ D 4 '41; Excerpts. Gas J (Lond) 237:316 Mr 4 '42; Abstract. Am Gas J 155:65-6 N '41; Discussion. Am Gas Assn Proc 1941:643-5

Maintaining gas manufacturing plants for peak load and emergency use in a city using natural gas. G. T. Bentley. map Am Gas Assn Proc 1941:572-7; Same. Gas Age 87:20-3+ Je 19 '41

What'll we do for gas? maintaining supply under war conditions. L. A. Kirch. Am Gas J 157:25-8+ Jl '42

GAS oil

Degree and extent of cracking of gas oils. H. E. Ferguson. Gas Age 90:13-16 Ag 27; 24-6 S 10 '42

Fuel oil and B.t.u. standards. W. E. Slade. Am Gas J 157:29-31 Jl '42

Gas oil situation. Am Gas J 156:35 Ap '42

Interesting developments concerning the saving of gas oil by mixing high B.t.u. coke oven gas and blue gas. R. E. Kruger. Am Gas Assn Proc 1941:635-43; Same. Am Gas Assn Mo 24:371-5 O '42; Same cond. Gas Age 88:28-30+ D 4 '41; Excerpts. Gas J (Lond) 237:316 Mr 4 '42; Abstract. Am Gas J 155:65-6 N '41; Discussion. Am Gas Assn Proc 1941:643-5

Use of anthracite in heavy oil water-gas operation at Pottsville. L. L. Newman and C. C. Wright. il Am Gas Assn Mo 24:33-7 Ja '42

Use of cheap fuel oils in a standard water gas set. G. G. Dormer. diags Am Gas J 157:11-14 Jl '42; Same, without diags. Gas Age 90:13-15 Ag 13 '42

See also

Gas, Water

GAS ovens

Finish drying by infra-red method. P. H. Gallagher. Am Gas Assn Mo 24:369 O '42

Heat distribution in ovens; patent. diag Gas J (Lond) 239:177 Jl 29 '42

Selecting oven type heat-treating furnaces. H. L. Horton. il Mach 48:130-3 My; 155-8 Je '42

GAS ovens, Baking

Fundamental aspects of oven design. M. Zare. diags Am Gas Assn Mo 24:328-31 S '42

Gas-fired bake oven is efficient. J. E. Hubel. il Am Gas J 156:22 Mr '42

GAS pipe lines

See also

Gas, Natural—Pipe lines

Gas distribution

Gas pipes

GAS pipes

Cast iron pipe standards. diags Am Gas Assn Proc 1941:465-71

Code for pressure piping. J. S. Haug. il Heating-Piping 14:155-7 Mr '42

Main extensions for war-housing projects. Gas Age 89:28 Je 4 '42

Regrading a gas main. L. B. Wilson, jr. il Am Gas Assn Mo 24:361-2 O '42

Replacing gas lines under city streets without disrupting traffic. L. S. Flint. il Gas Age 89:9 Ja 1 '42

Replanning gas distribution. G. G. Warne. Gas J (Lond) 238:419, 421; Discussion. 421 Je 10 '42

Save and serve through salvage; reclamation of used pipe. J. E. Moore. il Gas Age 90:15-17 S 10 '42

Shut off for medium-pressure lines. M. Leaman and W. Morrow. diags Gas Age 89:29-30 Ap 23 '42

Wrinkle bending in a pipe-line river crossing. il Gas Age 90:23 Ag 13 '42

See also

Gas, Natural—Pipe lines

Gas distribution

Gas flow

Damage from air raids

Experiments in extinguishing fires caused by air raids. Am Gas Assn Mo 24:158 Ap '42; Same. Gas Age 90:11 Jl 2 '42

Letter from England provides war protection information. J. Jamieson. Am Gas Assn Mo 24:302 S '42

Deposits

Experimental data with wet and dry dusts to determine effect on pipeline transmission and orifice coefficients. G. M. Kirkpatrick. il Am Gas Assn Mo 24:264-6 Jl-Ag '42

Failure

Denver mountain service during pipe-line break. Gas Age 89:20 My 21 '42

Putting out a gas fire in a broken gas main. il Gas Age 90:70 Jl 16 '42

Flood damage

Emergency planning proves its worth in pipe-line break; Albuquerque, New Mexico. H. L. Pinkerton. il Gas Age 89:7-9 Ja 1 '42

Flood-damaged Lone Star lines repaired by heroic action. Am Gas Assn Mo 23:452 D '41

Pipe line broken by flood. H. Padgett. Am Gas J 156:24-5 Je '42

Protection

Anti-electrolysis relay; protecting gas pipes from stray currents. C. R. Davis and R. M. Wainwright. diag Electronics 15:72 Mr '42

Cathodic protection in New Orleans; 14 years without a corrosion leak. R. J. Kuhn. Am Gas Assn Mo 24:196 My '42

Determination of efficiency of a cathodic-protection system. H. C. Gear. Gas Age 88:26-8 D 18 '41

GAS pipes—Protection—*Continued*

Device helps to prevent gas line freeze-ups. Steel 109:74 D 1 '41

Dew-point recorder safeguards gas line against freezing. J. A. Setter. diag Gas Age 88:31+ N 20 '41; Same. Electronics 14: 72+ N '41

Experiences with cathodic protection. G. R. Olson. il Gas Age 89:24-6+ My 21 '42

Pipe-line protection, what does it cost? summary of operating costs for five years of eight cathodic corrosion eliminators. S. A. Wright. Gas Age 90:18-19 Jl 30 '42; Same. Am Gas J 157:18, 21 Ag '42

Protective coatings for steel pipe. D. L. Brown. il Gas Age 88:14-15 D 4 '41

Repair

Air-defense methods for repair of gas mains damaged by bombs. G. E. Szekely. diags Am Gas Assn Mo 24:127-30+ Ap '42

Brooklyn Union plans for defense; emergency methods of closing breaks in mains. C. S. Goldsmith. il diags Gas Age 88:22-7 N 20 '41

Emergency repairs of gas pipes; Brooklyn union gas co. Pub Works 73:40 S '42

Emergency shut-off of gas mains with inexpensive and removable material. P. W. Geldard. diags Am Gas Assn Mo 24:267-8 Jl-Ag '42; Same. Gas Age 90:12-13 Jl 30 '42

Fast work on Dallas break. Am Gas J 157:34 S '42

Freeing tight or so-called frozen gas valves. G. Hill. diags Am Gas J 157:23 Jl '42

Reconditioning steel mains in Detroit. R. B. Allen. Gas Age 89:15-16+ My 21 '42; Same. Am Gas Assn Mo 24:221-3 Je '42

Testing

Good kink for locating a leak or stoppage in a concealed pipe. W. F. Schaphorst. chart Am Gas J 157:10 Jl '42

GAS pipes, Steel

Protective coatings for steel pipe. D. L. Brown. il Gas Age 88:14-15 D 4 '41

Reconditioning steel mains in Detroit. R. B. Allen. Gas Age 89:15-16+ My 21 '42; Same. Am Gas Assn Mo 24:221-3 Je '42

GAS poisoning. See Carbon monoxide poisoning; Gases, Asphyxiating and poisonous

GAS producers

Automotive products; British producer gas units. For Comm W 6:18-19 F 21 '42

Ersatz in the engine; motor-car users abroad resort increasingly to producer-gas equipment. N. W. Kendall. il For Comm W 8: 3-6+ Jl 18 '42

First solid fuel truck; equipped with a home-made, charcoal-gas producer. il Business Week p72 O 24 '42

Gas producers. diag Chem Age (Lond) 47:5-8, 29-30 Jl 4-11 '42

Gas producers; outline of compulsory government tests in Australia. J. L. Campbell. il diags Automobile Eng 32:156-8 Ap '42

Gas producers; patent. diags Gas J (Lond) 237:175 F 4 '42

Germany's gas-producer unit for tractors. For Comm W 7:30 My 23 '42

Installing a gas producer; abstract. R. E. Gould. Cer Ind 39:38 O '42

Mobile gas producers for light and heavy vehicles. Gas J (Lond) 238:97 Ap 15 '42

Mobile gas producers; patent. diags Gas J (Lond) 237:217 F 11 '42

Producer gas for motor vehicles. J. D. Cash and M. G. Cash. 168p 10s Angus and Robertson, London '40

Study of charcoal gas production with dry air blast; abstract. E. A. Kaye and A. F. Burstall. Engineering 154:255 S 25 '42

Utilisation of low-grade fuel in gas producers; abstract. M. W. Thring. Chem Age (Lond) 46:254 My 16 '42

Testing

Bench and field tests of vehicle gas producer plant as applied to farm tractors. A. T. Bowden, E. E. Freeth and A. D. Rutherford. diags Inst Mech Eng J & Proc 146: Proc 193-207, pl 1-2 Mr '42; Discussion. 148: Proc 65-70 D '42

Gas producer tests. M. W. Woods. diag Automobile Eng 31:418-20 N '41

GAS purification

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41; Same cond. Gas J (Lond) 237:130, 133-4 Ja 28 '42

Burnt oxide for purification. G. Dougill. Gas J (Lond) 238:166+; Discussion. 169-70 Ap 29 '42

Coke grading and oxide purification. K. Graham. Gas J (Lond) 237:103, 105; Discussion. 105 Ja 21 '42

Electric gas treater for removal of nitric oxide from fuel gas; Boston consolidated gas company. E. V. Harlow. il Am Gas Assn Mo 24:114-15 Mr '42

Gas producers; purification and transport problems. Chem Age (Lond) 47:29-30 Jl 11 '42

Gas purification plant in Magnolia field, Arkansas. F. H. Love. flow diag il Pet Eng 13:31-2 N '41

Gas washing apparatus; patent. diag Gas J (Lond) 239:175+ Jl 29 '42

High H_2S natural gas purified in Arkansas plants; Girbotol process. il Gas Age 89:52+ My 7 '42

Oxide purification; some wartime experiments. A. J. Doran. Gas J (Lond) 237: 169-70, 210, 215 F 4-11 '42

Recovery of benzole by refrigeration. A. Allen. diag Gas J (Lond) 238:369-70; Discussion. 370+ Je 3 '42

Some modern developments in dry-box purification. T. P. Keller. Gas Age 88:31-3+ D 18 '41

Sulphur from Arkansas sour gas; removal of hydrogen sulfide by Girbotol process. J. A. Lee. il diag Chem & Met Eng 49:80-2 J[illegible] '42

Sulphur removal from gas; report of committee, Institution of gas engineers. bibliog Gas J (Lond) 240:58+ O 14 '42

See also

Electric precipitation

Bibliography

Gas conditioning committee report; bibliography with summaries. Am Gas Assn Proc 1941:580-616

GAS rates

Actual application of the reproduction-cost-of service principle in rate making. J. Jeming. J Land & Pub Util Econ 18:188-203 My '42

Gas prices, December 1941. Monthly Labor R 54:520-2 F '42

New theory on rates; case of Federal power commission vs. Natural gas pipe line company of America and Texoma natural gas company. Gas Age 89:15 Mr 26 '42

OPA blocks higher gas rates in Washington. Comm & Fin Chr 156:1546 O 29 '42

Price changes between June and September 1941. Monthly Labor R 53:1313-14 N '41

Price changes between March and June 1942. Monthly Labor R 55:384-5 Ag '42

Rate adjustments; a major utility problem during the emergency. A. I. Phillips and D. A. Henry. Am Gas Assn Mo 24:91-2+ Mr '42

Rate situation in view of present price trends. D. A. Henry. Gas Age 90:37-9+ O 8 '42

Report of rate committee. Am Gas Assn Proc 1941:35-54; Excerpt (Problems arising from abnormal demands for gas service). Am Gas Assn Mo 24:225 Je '42

Structure and finance of the two-part tariff. A. F. Pollock. Gas J (Lond) 239:356, 359, 389-91 S 2-9 '42; Discussion. 239:473 S 23 '42

Supreme Court valuation case as we see it. J. Simpson. Gas Age 89:22-3 Ap 9 '42

Supreme court widens control of utility rates. Am Gas J 156:36 Ap '42

See also

Gas, Natural—Rates

GAS refrigerators. See Refrigerators, Gas

GAS research

Design fundamentals of atmospheric gas burner ports. R. L. Fletcher and R. M. Conner. il Am Gas Assn Mo 24:256-8+ Jl-Ag '42

Gas was ready yesterday for today's demands. il Gas Age 90:55-6+ Jl 16 '42

Industry, the Gas research board, the chemist. E. Evans. Gas J (Lond) 239:433-4 S 16 '42; Same abr. Chem Age (Lond) 47: 313-15 O 10 '42; Discussion. Gas J (Lond) 239:465-6 S 23 '42; Chem Age (Lond) 47: 315-16 O 10 '42

Institute of gas technology in action. H. Vagtborg. Gas J (Lond) 239:246+ Ag 12 '42

New developments. U. J. Altieri. bibliog Am Gas Assn Proc 1941:437-43; Same cond. Am Gas J 155:43-6+ D '41

Policy and scope of the Gas research board. E. V. Evans. Gas J (Lond) 238:406-8 Je 10 '42; Discussion. 238:524, 529; 239:166 Je 24, Jl 29 '42

Post-war research in the gas industry. H. H. Thomas. Gas J (Lond) 239:130 Jl 22 '42

Progress in gas utilization research during 1941. il Am Gas Assn Proc 1941:411-29

Report of the Gas research board. Gas J (Lond) 237:209-10 F 11 '42

Research and war; lasting benefits hinge on development of gas resources. H. Vagtborg. Am Gas Assn Mo 24:142-4 Ap '42

Research during and after the emergency. F. M. Banks. Am Gas Assn Proc 1941:26-9; Same. Am Gas Assn Mo 23:435-7+ D '41

Research in gas; summer air conditioning at A.G.A. laboratories. R. M. Conner. il diag Am Gas Assn Mo 24:306-9 S '42

Research program of the Institute of gas technology. H. Vagtborg. Mech Eng 64:802-4 N '42

Summaries of Institution of gas engineers communications. Gas J (Lond) 237:354+ Mr 11 '42; Discussion. 238:61-2, 101-2, 242, 245 Ap 8-15, My 13 '42

Technicians' work takes on new significance in all-out war program. Am Gas Assn Mo 24:420-2 N '42

Technology for the gas industry. H. Vagtborg. il Gas Age 89:29-31+ Ja 15 '42

War and post-war gas sales, service and research survey; includes material received from 32 manufactured, natural and mixed gas companies. E. J. Boyer. il Am Gas Assn Mo 24:355-6 O '42

Work of the Gas research board. Engineering 153:224, 275 Mr 20, Ap 3 '42

GAS retorts

Aspects of waste heat recovery from horizontal retorts. J. Castle. Gas J (Lond) 236:97 O 15 '41

Carbonization of Durham coals in continuous vertical retorts. H. Greenwood. Gas J (Lond) 239:318 Ag 26 '42; Discussion. 239: 471+ S 23 '42

Discharge doors for vertical retorts; patent. Gas J (Lond) 236:105 O 15 '41

Extracting coke from vertical retorts; patent. diags Gas J (Lond) 237:217 F 11 '42

Flexibility of carbonizing plant under wartime conditions. T. C. Finlayson. Gas J (Lond) 236:458+ D 24 '41

Methods of increasing water-gas or coal-gas capacities; producing supplementary oil gas, and using carborundum retort bottoms. R. F. Gibson. Gas Age 89:31-2 Mr 12 '42

Retort charging machines; patent. Gas J (Lond) 238:514 Je 24 '42

Scientific control in the retort house and its contribution to national fuel economy. T. C. Finlayson. Gas J (Lond) 238:408, 411-12 Je 10 '42; Same. Engineering 154:17-18 Jl 3 '42; Discussion. Gas J (Lond) 239: 61-2+ Jl 8 '42

Tar cracking to increase gas and benzole yield; application to continuous vertical retorts. Gas J (Lond) 238:22 Ap 1 '42

Vertical retorts and the manufacture of activated coke. A. T. Green. il Gas J (Lond) 237:394, 399 Mr 18 '42

Lining

Microscopic examination of silica refractories. P. F. F. Clephane. diags Gas J (Lond) 239:282, 287-8 Ag 19 '42

Summaries of Institution communications; 32d report of the Refractory materials joint committee. Gas J (Lond) 237:354+ Mr 11 '42

GAS sampling

Method for the determination of the quantity of suspended material in gas. C. W. Wilson. bibliog il diag Am Gas Assn Mo 24:325-7 S '42

GAS scrubbers. See Gas purification

GAS storage

Pressure loaded safety valve for high pressure gas storage plant; patent. diag Gas J (Lond) 240:69 O 14 '42

See also

Gas, Natural—Storage

Gas holders

GAS stoves

Cooker hotplate burners; patent. diag Gas J (Lond) 236:431, 433 D 17 '41

Fundamental aspects of oven design. M. Zare. diags Am Gas Assn Mo 24:328-31 S '42

Gas range and refrigerator production established under O.P.M. orders. Am Gas Assn Mo 24:26 Ja '42

War production board, Division of industry operations, order L-23-c; production of domestic cooking appliances. Am Gas J 156: 34-5 Je '42

See also

Gas cooking

Gas heaters

Advertising

Continues packaged dealer promotion, only service is theme now! Roper gas ranges. il Ptr Ink 201:19 N 6 '42

Vitamin-saving nutrition theme rivets attention on modern gas cookery. J. S. Spaulding. il Am Gas Assn Mo 23:432-3 D '41

Merchandizing

Cut material to fit pattern, say CP makers. J. R. Abrams. Gas Age 89:26+ Mr 12 '42

It's CP for you in 1942. W. M. Chamberlain. Am Gas Assn Proc 1941:227-9

Meeting the emergency; Home service committee, Rochester gas & electric corp. Am Gas Assn Proc 1941:221-3

Specifications

Emergency specifications for gas ranges. Gas Age 89:19-20 Je 4 '42

Standards

Utility gas range is ordered by WPB to meet American emergency standards. R. M. Conner. il Ind Stand 13:174-6 Je '42

Testing

Better baking through magic eyes; photoelectric reflectometer used in testing ovens. M. Zare. Am Gas Assn Mo 23:453-4 D '41

GAS supply

Albuquerque, New Mexico

Emergency planning proves its worth in pipe-line break. H. L. Pinkerton. il Gas Age 89:7-9 Ja 1 '42

Australia

Guarding the gas supply in Australia. Gas Age 90:23-4 Ag 27 '42

Great Britain

Contribution of the gas industry in the domestic field to national fuel economy; gas, electricity and solid fuels compared. H. Hartley. Gas J (Lond) 238:460-2, 465-6 Je 17 '42; Discussion. 239:69, 93+, 206+ Jl 8-15, Ag 5 '42

Design and operation of gas-fired industrial equipment in relation to national fuel economy. E. A. C. Chamberlain. Gas J (Lond) 238:515-19 Je 24 '42; Discussion. 239:67 Jl 8 '42

GAS supply—Great Britain—*Continued*

Gas distribution as it affects post-war planning. W. Hodkinson and H. B. Taylor. Gas J (Lond) 239:134+ Jl 22 '42

Gas distribution; post-war problems. W. Hodkinson and H. B. Taylor. Gas J (Lond) 238:175, 177, 210+ Ap 29-My 6 '42

Gas quality; report of the Committee of enquiry on gas quality. Gas J (Lond) 240:22, 25 O 7 '42; Discussion. 240:93-4 O 21 '42

Organizing a fuel economy exhibition; discussion by the Eastern section of the Southern association. Gas J (Lond) 240: 103+ O 21 '42

Preliminary to planning. H. N. Dann. Gas J (Lond) 239:133-4 Jl 22 '42

Replanning gas distribution. G. G. Warne. Gas J (Lond) 238:419, 421; Discussion. 421 Je 10 '42

Scientific control in the retort house and its contribution to national fuel economy. T. C. Finlayson. Gas J (Lond) 238:408, 411-12 Je 10 '42; Same. Engineering 154:17-18 Jl 3 '42; Discussion. Gas J (Lond) 239:61-2+ Jl 8 '42

New England

Informal fuel committee of the New England gas companies. Am Gas J 157:37-9 N '42

United States

What'll we do for gas? maintaining supply under war conditions. L. A. Kirch. Am Gas J 157:25-8+ Jl '42

Wisconsin

With natural gas in the offing, Wisconsin gas & electric co. expands plant. J. E. Hubel. Am Gas J 156:26 F '42

GAS tanks

See also

Gas holders

GAS testing

Observations from data taken with a flashback instrument. J. A. Morrison. il diags Am Gas J 157:11-17, 44 Ag '42; Same. Gas J (Lond) 239:215, 217 Ag 5 '42

See also

Gas, Natural—Testing

GAS traps

How to get rid of that troublesome air pocket; principles of trap operation. S. H. Coleman. diags Power 86:85 F '42

GAS turbines

Byproduct power from process gases; abstracts. J. Goldsbury and J. R. Henderson. diags Power Pl Eng 45:60-2 D '41; Chem & Met Eng 49:177-9 F '42; Nat Pet N 34 pt2: R211-13; Discussion. R213 Jl 29 '42

Gas turbine; abstract. J. T. Rettaliata. Franklin Inst J 233:614-15 Je '42

Possible aeronautical developments; gas turbine engine, rocket planes; abstract. J. C. Hunsaker. Science 95:sup10 Je 5 '42

Supercharging of two-stroke Diesel engines. F. Oederlin. il diags Mech Eng 64:779-83 N '42

Two-stroke engine and exhaust turbine; abstract. Aeronautical Eng R 1:49 Ag '42

See also

Locomotives, Gas turbine

GAS warfare. See Chemical warfare; Gases, Asphyxiating and poisonous

GAS washing. See Gas purification

GAS water heaters

Application of gas heated water to mechanical dish-washers; with directory of manufacturers. diags Am Gas Assn Proc 1941:394-410

Gas heat for army recreational group in St Louis. J. Kearns. il Am Gas J 156:36 F '42

Gas service manual; corrosion in gas water heaters. W. L. Riehl. Gas Age 88:34 N 20 '41

Gas service manual; precipitation, piping, valves. W. L. Riehl. diags Gas Age 88:31-2+ D 4 '41

Gas storage water heater design. Gas J (Lond) 237:134+ Ja 28 '42

Maintenance and repair; contractor's key to business; water heaters; contractor-utility cooperation. Dom Eng 160:48-9 O '42

Putting hot water to work; John H. Breck inc., makers of toiletries. B. Dale. il Gas Age 89:23 Ja 1 '42

Thermostatic valve-control device; patent. diag Gas J (Lond) 237:319 Mr 4 '42

Water heater check chart enables utility to improve water heater service. J. E. Kearns. Am Gas J 157:43 O '42

Cost of operation

Domestic water heating; requirements for various income groups; electricity, gas and other fuels. L. Friedman. Gas J (Lond) 236: 350-2, 355+ D 3 '41; Discussion. F. Brooks. 236:422+ D 17 '41; Discussion (Water heating by gas). A. Forshaw. 237:244-5 F 18 '42; Discussion. 239:323 Ag 26 '42

Domestic water heating—second thoughts. L. Friedman. bibliog Gas J (Lond) 237: 94, 97 Ja 21 '42

GAS welding

Aircraft torch welding. C. Von Borchers and A. Ciffrin. 157p $1.50 Pitman '41

Welding of lead. R. Dick. il Dom Eng 160: 42-4+ Ag '42

See also

Oxyacetylene welding

GAS works

Maintaining gas manufacturing plants for peak load and emergency use in a city using natural gas. G. T. Bentley. map Am Gas Assn Proc 1941:572-7; Same. Gas Age 87:20-3+ Je 19 '41

Rational works reconstruction. Gas J (Lond) 236:317-18 N 26 '41

With natural gas in the offing, Wisconsin gas & electric co. expands plant. J. E. Hubel. Am Gas J 156:26 F '42

See also

Gas, Water—Manufacture

Gas holders

Gas manufacture

Accounting

See Gas companies—Accounting

Costs

Public utility construction cost index, 1915-1941. Eng N 128:676 Ap 23 '42

Standards of calorific value for gas. G. E. Foxwell. Gas J (Lond) 237:59-60, 63 Ja 14 '42

Electric equipment

Electric gas treater for removal of nitric oxide from fuel gas; Boston consolidated gas company. E. V. Harlow. il Am Gas Assn Mo 24:114-15 Mr '42

Emergency problems

Emergency shut-off of gas mains with inexpensive and removable material. P. W. Geldard. diags Am Gas Assn Mo 24:267-8 Jl-Ag '42; Same. Gas Age 90:12-13 Jl 30 '42

Radio-telephone equipment would make possible necessary communication in handling air raid and other emergency repairs. il Am Gas J 157:14 S '42

Equipment

Arc welding around the gas plant. A. F. Davis. il Am Gas J 156:18, 21 My '42

Benzole recovery at a very small gas-works. il diags Gas J (Lond) 236:389-90 D 10 '41

Centralized control lowers holder operating costs. R. Trautschold. il Gas Age 89:27+ Mr 12 '42

Citizen's gas and coke utility completes 41 new coke ovens. R. Latimer. il Gas Age 89:20-1 F 12 '42

Coal and coke handling at a modern gas-works. diags Mech Handling 29:130-2 Jl '42

Coke grading and oxide purification. K. Graham. Gas J (Lond) 237:103+; Discussion. 105 Ja 21 '42

Dehydrating bunker C tar emulsion and coke-oven tar emulsion. C. J. Leuders. Gas Age 89:7 Je 18 '42

GAS works—Equipment—*Continued*

Experience with nine foot reverse flow water gas machine; with cost data. G. G. Dormer. il diags Am Gas J 155:9-14 D '41

Flexibility of a small water gas set. J. M. Duffy. Am Gas J 156:23-4 F '42

Increasing capacity in water gas sets with thin-walled generator lining. R. J. Horn. diags Am Gas Assn Mo 24:216-17 Je '42; Same. Gas Age 89:17-18 Je 18 '42

Liquefaction of natural gas for public supply. il diag Engineer 173:432-5 My 22 '42

Recovery of benzole by refrigeration. A. Allen. diag Gas J (Lond) 238:369-70; Discussion. 370+ Je 3 '42

Two years' experience with reversed flow machines at Portland, Me. G. R. Steere. Am Gas Assn Proc 1941:571-2

Use of cheap fuel oils in a standard water gas set. G. G. Dormer. diags Am Gas J 157:11-14 Jl '42; Same, without diags. Gas Age 90:13-15 Ag 13 '42

See also

Coal handling
Gas holders
Gas purification
Gas retorts

Fuel

Fuel oil and B.t.u. standards. W. E. Slade. Am Gas J 157:29-31 Jl '42

Load

Analysis of consumption; tables. Am Gas Assn Proc 1941:44-54

Economic desirability of the house heating load and its collateral advantages in connection with other domestic services. Am Gas Assn Proc 1941:255-9

Manufacture of peak load gas; patent. diags Gas J (Lond) 237:313, 319 Mr 4 '42

Maintenance and repair

Arc welding salvages machines subjected to hard wear in gas producing plants. il Am Gas J 157:27 S '42

Electric welding practices in the gas industry. il Am Gas J 157:23-5 N '42

Maintenance in a 300 million works; Hamilton gas-works. A. McNeil. Gas J (Lond) 237:141 Ja 28 '42

Metallizing; some applications in gas plant maintenance. G. B. Johnson. il Am Gas J 157:16-18 Jl '42

Welding in gas plant maintenance. E. W. P. Smith. il Steel 111:92, 95+ S 7 '42

Works repairs and reconstruction during wartime. F. Litler. Gas J (Lond) 238:252, 287 My 13-20 '42

Management

Production and chemical group maps wartime gas plant operating economies. Am Gas Assn Mo 24:240-3 Je '42

Technical administration and costing in a gas undertaking. T. Haworth. Gas J (Lond) 236:169-70, 175 O 29 '41; Discussion. 236: 206+ N 5 '41

Peak load

Alternative and auxiliary gases from liquefied petroleum products. C. G. Segeler. Am Gas Assn Proc 1941:100-21 bibliog(p110-11); Same. Am Gas J 155:49-53 N; 25-8, 52-4 bibliog(p53-4) D '41

Power

Rectifier performs well on fluctuating load of coke ovens. L. T. Jones. il Elec W 118: 923-4 S 19 '42

Protection

Air raid precautions for gas undertakings. R. J. Bennie. Am Gas J 156:25-30 Ja '42

Brooklyn Union plans for defense; protecting the gas works. C. E. Cheeseman. Gas Age 88:20 N 20 '41

Gas industry's defense problem. G. F. B. Owens. Gas Age 89:19+ Mr 26 '42

How gas companies assure continuous service. il Gas Age 90:51-4+ Jl 16 '42

How to defend an industrial plant and protect it from enemy air raids. Am Gas Assn Mo 24:48-9+ F '42

Letter from England provides war protection information. J. Jamieson. Am Gas Assn Mo 24:302 S '42

National defense and the gas industry. S. J. Beale. Am Gas J 156:12-16, 42-4 Ja; bibliog 15-18, 21 F '42; Same cond. Gas Age 88:19-23+ D 18 '41

Protection measures in the defense program. C. D. Merritt. Gas Age 90:9-11 Jl 30 '42

Protection of property and personnel in the national emergency. E. E. Ellis. Am Gas J 157:7-10 Jl '42

See also

Gas pipes—Protection

Safety measures

Handrail guard for coke oven platform. A. E. Parker. il diag Nat Safety N 46:31 Jl '42

Winter operation

Precautions against frost in gas-works. G. M. Gill. Gas J (Lond) 236:467, 469 D 24 '41

GASES

Combustion of common gases; tabulation. Metal Prog 42:652 O '42

Compressibilities of gaseous mixtures of methane and normal butane; the equation of state for gas mixtures. J. A. Beattie, W. H. Stockmayer and H. G. Ingersoll. bibliog J Chem Phys 9:871-4 D '41

Contribution to statistical mechanics. J. E. Mayer. J Chem Phys 10:629-43 O '42

Correlating gas solubilities and partial pressure data. D. F. Othmer and R. E. White. bibliog Ind & Eng Chem 34:952-9 Ag '42

Determination of Beattie-Bridgeman constants from critical data. F. W. Brown. Ind & Eng Chem 33:1536-7 D '41

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Deviation of natural gas from the law of perfect gases. G. M. Stearns. Oil & Gas J 40:78 Ap 23 '42

Drying of gases by activated alumina. il diag Engineering 152:406-7 N 21 '41

Empirical correlation of the activation energies of gaseous unimolecular reactions with vibrational frequencies. P. Fugassi and E. Warrick. bibliog J Phys Chem 46:630-9 Je '42

Empirical heat capacity equations of gases. H. M. Spencer and G. N. Flannagan. bibliog Am Chem Soc J 64:2511-13 O '42

Engineering fundamentals. diags Diesel Power 20:145-6 F '42

Equation for the isotherms of pure substances at their critical temperatures. C. H. Meyers. bibliog J Research Nat Bur Stand 29:157-76 Ag '42

Equation of state for gases at high pressures involving only critical constants. S. H. Maron and D. Turnbull. bibliog Am Chem Soc J 64:2195-8 S '42

Equations for the specific heats of gases. J. C. Smallwood. Ind & Eng Chem 34:863-4 Jl '42

Equilibrium and kinetics of gas reactions; an introduction to the quantum-statistical treatment of chemical processes. R. N. Pease. 236p $3.75 Princeton univ. press '42

Flow of energy in thermal transpiration for a Bose-Einstein and a Fermi-Dirac gas. D. V. Gogate and D. S. Kothari. Phys R 61: 349-58 Mr 1 '42

Freezing waste gases from the steel and petroleum industries; abstract. C. T. Lane. Science 94:sup13 N 28 '41

Furnace atmospheres; a survey of some recent researches in America. diags Automobile Eng 32:415-18 O '42

Gas imperfections determined from the heat of vaporization and vapor pressure. C. F. Curtiss and J. O. Hirschfelder. bibliog J Chem Phys 10:491-6 Ag '42

Generalized thermodynamic properties of gases at high pressures. S. H. Maron and D. Turnbull. bibliog il Ind & Eng Chem 34:544-51 My '42

GASES—*Continued*

Kinetics of gaseous reactions by means of the mass spectrometer; the thermal decomposition of dimethyl ether and acetaldehyde. E. Leifer and H. C. Urey. diags Am Chem Soc J 64:994-1001 Ap '42

Law of perfect gases. G. M. Stearns. Oil & Gas J 40:77 Ap 23 '42

Loss of energy of hydrogen ions in traversing various gases. C. M. Crenshaw. diags Phys R 62:54-7 Jl 1 '42

Mobilities in nitrogen at high current densities. W. H. Bennett. diags Phys R 62:369-71 O 1 '42

Mobilities in some free electron gases. W. H. Bennett and L. H. Thomas. Phys R 62:41-7 Jl 1 '42

Model method of photographic and photometric determination of heat radiation between surfaces and through absorbing gases. M. Jakob and G. A. Hawkins. il diags J Ap Phys 13:246-54 Ap '42

Nascent state. J. H. Reedy and E. D. Biggers. bibliog J Chem Educ 19:403-6 S '42

Note on statistical forces. L. Goldstein. J Chem Phys 10:295-7 My '42

Partition function of a gas of hard elastic spheres. O. K. Rice. J Chem Phys 10:653-4 O '42

Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42

P-V-T-x relations of the system propane-isopentane. W. E. Vaughan and F. C. Collins. bibliog Ind & Eng Chem 34:885-90 Jl '42

Primary gaseous products of carbonisation; examination of cellulose, bakelite, glycine, petroleum coke, coal. K. Bolton and others. Chem Soc J p252-63 Ap '42

Proportional counter amplification at low voltages. M. E. Rose and W. E. Ramsey. bibliog diag Phys R 61:504-9 Ap 1 '42

Quenching and depolarization of resonance radiation by collisions with molecules of a foreign gas; remarks on papers by Ellett, Olsen, and Petersen and by Olsen. S. Mrozowski. bibliog Phys R 61:379-80 Mr 1 '42

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

Second virial coefficient for gas mixtures. J. A. Beattie and W. H. Stockmayer. bibliog J Chem Phys 10:473-6 Jl '42

Second virial coefficients and the forces between complex molecules. J. O. Hirschfelder, F. T. McClure and I. F. Weeks. bibliog J Chem Phys 10:201-11 Ap '42

Second virial coefficients of polar gas mixtures. W. H. Stockmayer. bibliog J Chem Phys 9:863-70 D '41

Sources of thermodynamic data; methods of application to the industry. J. G. Aston. bibliog il Ind & Eng Chem 34:514-21 My '42

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42

Studies in gaseous hydrogenation and polymerization reactions. H. D. Burnham and R. N. Pease. bibliog Am Chem Soc J 64:1404-10 Je '42

Supersonic absorption and Stokes' viscosity relation. L. Tisza. bibliog Phys R 61:531-6 Ap 1 '42

Temperature dependence of reaction rates from the standpoint of the Broensted-Christiansen-Scatchard equation. E. S. Amis and G. Jaffé. bibliog J Chem Phys 10:646-50 O '42

Theory of adsorption of gases on metals. J Ap Phys 13:222-3 Ap '42

Thermodynamic calculations of pressure effects in gaseous reactions by the equation of state method. L. J. Gillespie. Chem R 29:525-7 D '41

Translational dispersion of sound in gases. H. Primakoff. bibliog Acoustical Soc Am J 14:14-18 Jl '42

See also

Acetylene
Adsorption
Aerodynamics
Air
Argon
Blast furnace gas
Bubbles
Carbon dioxide
Chemistry
Chlorine
Coke-oven gas
Electric discharges
Equation of state
Flue gas
Fumes
Gas
Gas, Natural
Gas analysis
Gas flow
Helium
Hydrogen
Inflammable mixtures
Ionization, Gaseous
Joule-Thomson effect
Neon
Nitrogen
Oxygen
Oxygen, Liquid
Ozone
Smoke
Vapor pressure
Vapors
Water vapor

Apparatus

Apparatus for the measurement of the scattering of low velocity ions in gases at low pressure. J. H. Simons and others. diags R Sci Instr 13:419-26 O '42

Carbon dioxide generator. J. A. Johnston. diag Ind & Eng Chem Anal ed 14:805 O 15 '42

Infra-red absorption cell for gases at high and low temperatures. L. G. Smith. il diag R Sci Instr 13:65-7 F '42

Measurement of gases; electrical methods of computation and analysis. T. T. Baker. il diag Elec R (Lond) 130:41-2 Ja 9 '42

Measuring furnace atmospheres; Ranarex analyzer. F. B. Leslie. il Iron Age 149:60-2 Mr 5 '42

Measuring gases by weight. Barron's 21:5 D 15 '41

Mechanical concentration of gases. C. G. Maier. bibliog diags U S Bur Mines Bul 431: 1-148; pa 20c Supt. of doc. '40

Method for the accurate analysis of gaseous mixtures. C. H. Bamford and R. R. Baldwin. diag Chem Soc J p26-9 Ja '42

Micro-gas-analyzer. P. F. Scholander. diags R Sci Instr 13:264-6 Je '42

Modified Noyons thermic diaferometer for respiratory gas analysis. T. M. Carpenter and V. S. Coropatchinsky. il diags Ind & Eng Chem Anal ed 14:159-63 F 15 '42

New technique for adsorption studies. J. Coull, H. C. Engel and J. Miller. bibliog diags Ind & Eng Chem Anal ed 14:459-62 Je 15 '42

War gas identification sets. F. C. Hickey and J. J. Hanley. bibliog il diag J Chem Educ 19:360-4 Ag '42

See also

Atmolyzers
Condensers
Nitrometers

Liquefaction

Centenary of Sir James Dewar. Engineering 154:234 S 18 '42

Compressor design for the process industries. R. York, jr. bibliog il Ind & Eng Chem 34:535-44 My '42

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38: 891-930 O '42

Low temperature physics in the USSR. C. T. Lane. Science 95:84-6 Ja 23 '42; Same cond. Mech Eng 64:223-4 Mr '42

Non-fouling hydrogen liquefier. E. R. Blanchard and H. W. Bittner. bibliog il diags R Sci Instr 13:394-405 S '42

Thermodynamics of deep refrigeration. R. C. H. Heck. Mech Eng 64:475-6 Je '42

See also

Gas, Natural—Liquefaction
Hydrogen, Liquid
Liquid air
Oxygen, Liquid

GASES, Asphyxiating and poisonous

Bombing and refrigeration; possible hazards. C. P. McCord. Refrig Eng 44:151-3 S '42

Chemical detection of war gases for civilian defense. T. F. Bradley. il diags Chem & Eng N 20:893-6 bibliog(p893) Jl 25 '42

GASES, Asphyxiating and poisonous—*Continued*

Chemical warfare agents, reference and training chart. Mod Plastics 19:42 Je '42

Effect of irritant gases upon the rate of ciliary activity. L. V. Cralley. bibliog diag J Ind Hygiene 24:193-8 S '42

Effects of carbonaceous blasting accessories on gaseous products from explosives. J. C. Holtz and E. J. Murphy. pls U S Bur Mines Rep of Invest 3641:1-24 '42

Gas identification service; aspects of organization and operation in England. G. W. Ferguson. Can Chem & Process Ind 26:609-11 O '42

How to tell & what to do if they are gassed. 120p bibliog(p113) 5s Rudkin press, Little Dormers, Nutfield, Surrey, Eng. '41

Mechanical equipment of air raid shelters; ventilation for protection against war gases. F. H. Slade. il (cover) diags Refrig Eng 44:217-21+ O '42

Mechanism of action of ordinary war gases. C. D. Leake and D. F. Marsh. bibliog Science 96:194-7 Ag 28 '42

Nitric oxide fumes; treatment after their inhalation. W. D. McNally. Ind Med 11:207-8 My '42

Poison in the air; what to do in case of gas attacks. il Safety Eng 84:10-14 Ag '42

Protection against war gases. bibliog Chem & Met Eng 49:93-6 Mr '42

Shipyard takes over. J. M. Techton. il Nat Safety N 46:12-13, 62+ Jl '42

Smoke and fire gases; toxic constituents. W. H. Easton. bibliog Ind Med 11:466-8 O '42

Toxicity and potential dangers of nitrous fumes. W. F. von Oettingen. (Pub. health bul. 272) 34p bibliog(p30-4) U.S. Public health service, Washington; pa 10c Supt. of doc. '41; Review. Pub Health Rep 56: 2219-20 N 14 '41

Ventilation and heating of air raid shelters; ventilation vs. gas. J. F. Kern, jr. il diags Heat & Ven 39:42-50 F '42

War gas identification kit developed by Fritzsche bros. for civilian defense. il Oil Paint & Drug Rep 142:43 Jl 13 '42

War gas identification sets. F. C. Hickey and J. J. Hanley. bibliog il J Chem Educ 19:360-4 Ag '42

War gases, their identification and decontamination. M. B. Jacobs. 180p $3 Interscience publishers, 215 4th av, New York '42

See also
Carbon disulfide
Carbon monoxide
Carbon monoxide poisoning
Chlorine
Decontamination
Flue gas
Gas masks
Hydrogen sulfide
Mustard gas
Smoke
Sulfur dioxide

GASES, Compressed

Byproduct power from process gases; abstracts. J. Goldsbury and J. R. Henderson. diags Power Pl Eng 45:60-2 D '41; Nat Pet N 34 pt2:R211-13; Discussion. R213 Jl 29 '42

Compressor design for the process industries. R. York, jr. bibliog il Ind & Eng Chem 34:535-44 My '42

Electrical strength of nitrogen and Freon under pressure. H. H. Skilling and W. C. Brenner. bibliog Elec Eng 61:Trans 191-5 Ap '42

High-pressure gas as a dielectric. G. C. Nonken. il diags Elec Eng 60:Trans 1017-20 D '41

Motoring sans gasoline. C. H. Vivian. il diag Comp Air M 47:6841-5 S '42

Pressure loaded safety valve for high pressure gas storage plant; patent. diags Gas J (Lond) 240:69 O 14 '42

Sludge gas for motor fuel. il Eng N 127:802-3 D 4 '41

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. il diags Chem & Eng N 20:653-4 My 25 '42

Transmission of power in compressed gas atmospheres; library research. H. M. Hobart. diags Franklin Inst J 234:251-73, 331-54 S-O '42

GASES, Diffusion of. See Diffusion

GASES, Kinetic theory of

Evaluation of functions related to Tait's mean free path. P. Rosenberg. bibliog Phys R 61:528-30 Ap 1 '42

GASES, Liquefied

See also
Hydrogen, Liquid
Liquefied petroleum gas
Oxygen, Liquid

GASES, Rare

Fluorescence of phosphors in the rare gases. G. R. Fonda and H. Huthsteiner. bibliog Opt Soc Am J 32:156-60 Mr '42

Quenching and depolarization of mercury resonance radiation by the rare gases. L. O. Olsen. Phys R 60:739-42 N 15 '41

See also
Argon
Helium
Krypton
Neon
Xenon

GASES in warfare. See Chemical warfare; Gases, Asphyxiating and poisonous

GASHOLDERS. See Gas holders

GASKETS

Gasket cutter for maintenance shop. Elec W 117:2086 Je 13 '42

Gasket material is scarce; use it wisely. il diags Diesel Power 20:745-6+ S '42

Lead lubricant combined in a rubber gasket; swing joint for low-pressure steam lines. diag Sci Am 166:66 F '42

GASOLINE

Cooperative fuel-research motor-gasoline survey, summer 1941. E. C. Lane. tables U S Bur Mines Rep of Invest 3611:1-31 '42

Electrical charges produced by flowing gasoline. S. S. Mackeown and V. Wouk. il diags Ind & Eng Chem 34:659-64 Je '42

Lower-octane gasoline; effect on design, operation, maintenance. S A E J 50:sup29-31 F '42; Same. Nat Pet N 34:R78-80 Mr 4 '42

Operating study of the value of gasoline for gas-making purposes. W. H. Ganley and R. E. Stafford. Gas Age 90:25-7 N 5 '42

Study of hazards in spray painting with gasoline as a diluent. J. H. Sterner. bibliog il J Ind Hygiene 23:437-48 N '41

Value of gasoline for gas-making purposes. W. H. Ganley and R. W. Stafford. Gas Age 90:9-10 Ag 27 '42; Same. Am Gas J 157:21-2 S '42; Same. Pet Eng 14:134, 136 O '42

Virtual masses and moments of inertia of disks and cylinders in various liquids. Y. Yu. diag J Ap Phys 13:66-9 Ja '42

War gasoline sold to public contributes to aviation fuel. R. H. Colley. Sci Am 166:288 Je '42

See also
Airplane engines—Fuel
Automobile engines—Fuel
Automotive fuel
Gas and oil engines—Fuel
Gasoline service stations
Motor bus engines—Fuel
Motor truck engines—Fuel
Petroleum refining

Alcohol mixtures

Reid vapour pressure of alcohol blends. S. J. W. Pleeth. Inst Pet J 28:113-14 Je '42; Abstract. Chem & Met Eng 49:222 S '42

Analysis

Composition of catalytically cracked gasolines. J. R. Bates and others. bibliog Ind & Eng Chem 34:147-52 F '42

Anti-knock and anti-knock mixtures

Alkylated benzenes for high octane. W. L. Nelson. Oil & Gas J 41:52 Jl 16 '42

Anti-knock fuels; the development and blending of high-octane petrols. C. Campbell. Automobile Eng 32:163-5 Ap '42

Cause, effect of ethyl fluid allocation. G. Edgar. Nat Pet N 33:18, 42-4 D 10 '41

Commercial vehicles and lower-octane fuels; symposium. W. H. Hubner and others. S A E J 50:125-36; Discussion. 137-8 Ap '42

GASOLINE—Anti-knock and anti-knock mixtures—*Continued*

Debate effect of cut in anti-knock value of fuel on car maintenance; abstracts of papers at annual meeting of Society of automotive engineers. Nat Pet N 34:R18, R20 Ja 21 '42

Don't tinker with the octane number; bus industry would be in serious difficulties if octane number of gasoline were to be lowered. Bus Transportation 21:74-5 F '42

Effect of ignition timing and anti-knock quality of fuel on engine performance. C. W. Phelps, R. C. Heidner and M. L. Smitley. Nat Pet N 34:R117-18 Ap 15 '42

Gasoline additives. J. A. Moller. il diag Oil & Gas J 40:82-4+ Mr 26 '42

Gasoline miracles; higher octane aviation fuels. S. J. French. Sci Am 166:167-70 Ap '42

Higher octanes; new processes promise plenty of gasoline rating up to 100. Business Week p56+ S 5 '42

Improved motor fuels through selective blending. C. R. Wagner and others. bibliog Am Pet Inst Proc 22(3):70-88 '41; Abstract. Nat Pet N 33:R370-2 N 26 '41; Discussion. Am Pet Inst Proc 22(3):88-9 '41

Influence of sulfur compounds on octane number and lead susceptibility of gasolines. J. G. Ryan. bibliog Ind & Eng Chem 34:824-32 Jl '42; Same. Nat Pet N 34 pt 2:R234-9, R286-8 Jl 29-Ag 26 '42

Lead decision holds key to octane ratings. Nat Pet N 33:16-18 D 10 '41

More alkylate; development of process for use of HF for airplane fuel. Business Week p65-6 O 24 '42

New contracts will increase 100-octane 35,460 bbl. H. D. Ralph. Oil & Gas J 40:20 Ja 22 '42

1941 CFR road detonation tests. J. M. Campbell and others. Am Pet Inst Proc 22(3): 90-6 '41; Same. S A E J 50:458-64 O '42; Excerpts. Nat Pet N 33:R381-2+ N 26 '41

1941 report of the automotive survey committee. Am Pet Inst Proc 22(3):98-9 '41

Performance value of high-octane aviation gasolines. G. A. C. Leaver. Oil & Gas J 40: 88, 90+ Mr 26 '42

Plan is outlined to set up output of 100-octane gas. Civil Aero J 2:321+ D 15 '41

Precision of motor fuel testing; report from Cooperative fuel research committee. D. B. Brooks and R. B. Cleaton. S A E J 50:392-401 S '42

Refiners fear postwar effects of 100-octane expansion. J. P. O'Donnell. Oil & Gas J 40:15 N 13 '41

Refiners to get more lead while Ethyl seeks supplies. Nat Pet N 33:19 D 17 '41

Refiner's viewpoint on motor fuel quality. W. M. Holaday and J. Happel. flow chart Nat Pet N 34:R46-7 F 4 '42

Rubber, 100-octane fuel need large volume of base stocks. W. L. Nelson. il Oil & Gas J 40:10-11 Ja 22 '42

65 octane good enough to run many late models, OPA says. Nat Pet N 33:16 D 17 '41

SAE discusses cut in octane and its effect. Nat Pet N 34:5+ Ja 14 '42

Synthetic rubber and 100-octane gasoline; abstract. J. H. Simons. Science 96:sup8 Jl 17 '42

Typical lead responses. W. L. Nelson. bibliog Oil & Gas J 40:68+ N 27 '41

See also
Gasoline—Ethyl mixtures

Blending

Additions to gasoline plant diversify output; Arkansas fuel oil company produces blended motor fuel, kerosine, Stoddard solvent, absorption oil, and fuel oil. D. Attaway. il Pet Eng 13:34, 36, 38 D '41

Anti-knock fuels; the development and blending of high-octane petrols. C. Campbell. Automobile Eng 32:163-5 Ap '42

Blending to improve refinery products; road tests provide important data on motor fuel; net effect of blending with butane and *iso*butane. R. G. Lovell. il Pet Eng 13: 41+ F '42

Front-end volatility of gasoline blends. N. B. Haskell and D. K. Beavon. Ind & Eng Chem 34:167-70 F '42

Improved motor fuels through selective blending. C. R. Wagner and others. bibliog Am Pet Inst Proc 22(3):70-88 '41; Abstract. Nat Pet N 33:R370-2 N 26 '41; Discussion. Am Pet Inst Proc 22(3):88-9 '41

Prediction of octane numbers and lead susceptibilities of gasoline blends. D. Eastman. Ind & Eng Chem 33:1555-60 D '41

Propane, a substitute for butane in motor fuels. R. C. Alden, H. M. Trimble and L. A. McReynolds. bibliog Oil & Gas J 40: 80-1+ Mr 26 '42

Coloring

Coloring of tax-free gasoline. 20p pa 75c Federation of tax administrators, 1313 E 60th st, Chicago '42

Conservation

Canada's gasoline rules. Business Week p39 D 27 '41

Curtailment ordered for East, Northwest; with text. il Nat Pet N 34:3-4, 7, 25-6+ Mr 18 '42

Gas cutoff tested; running of motors on half of their cylinders looks less promising. Business Week p40+ O 3 '42

Gasoline curfew? Business Week p19 F 7 '42

Gasoline economy measure proposed by Sun oil co.; motor and carburetor adjustments. J. P. O'Donnell. Oil & Gas J 41:35 Ag 20 '42

Half engine use saves gas, won't harm motor, Sun says. il Nat Pet N 34:4 Ag 19 '42

Making 3's of 6's; blocking out half of an automobile's cylinders effects gasoline saving of 30% to 40%. il Business Week p40 Ag 22 '42

National rationing may be avoided by new eastern cut. H. D. Ralph. Oil & Gas J 40: 19 Ap 16 '42

Rationing may be necessary, Ickes warns at hearing. H. D. Ralph. Oil & Gas J 40:14-15+ F 19 '42

Save that gas; companies help fuel conservation. Bus Transportation 21:92-3 F '42

Stop octane sabotage; fuel conservation. il Bus Transportation 20:570-2 D '41

WPB order will cut gasoline supply 50,000,000 barrels; industry approval preceded request for restriction. il Oil & Gas J 40:14-15 Mr 19 '42

We drive a half-engine car; operating car on half normal number of cylinders. V. B. Guthrie. il Nat Pet N 34:24, 26-7 S 9 '42

Desulfurization

See Gasoline—Sulfur content

Ethyl mixtures

Ethyl rationed. Business Week p31 D 6 '41

Minimum octane number raised to 80 on premium motor fuel. Oil & Gas J 41:28 O 22 '42

Prediction of octane numbers and lead susceptibilities of gasoline blends. D. Eastman. Ind & Eng Chem 33:1555-60 D '41

Gum formation

Proposed method of test for potential gum in aviation gasoline. diags Am Soc T M Proc 41:351-5 '41

Pyrogallol derivatives as gasoline antioxidants. W. W. Scheumann and J. H. Haslam. bibliog Ind & Eng Chem 34:485-8 Ap '42

Manufacture

Alkylation; oil industry's contribution to war requirements of aviation fuel. G. B. Murphy. flow diag bibliog il Nat Pet N 34: R4, R6, R8 Ja 7 '42

Base stock for 100-octane is available from many sources. W. L. Nelson. diag Oil & Gas J 40:63-4 D 25 '41

Boon to plane gas; Isomate process conserves vital synthetics used in making 100-octane fuel. Business Week p53-4 D 13 '41

GASOLINE—Manufacture—*Continued*

Catalyst revived continuously to improve war-product yields; modifying Houdry catalytic cracking procedure. J. P. O'Donnell. il Oil & Gas J 41:44-5 Je 4 '42

Catalytic isomerization will put nation far in lead in aviation gasoline supply. G. B. Murphy. Nat Pet N 33:R401-2 D 24 '41

Composition of catalytically cracked gasolines. J. R. Bates and others. bibliog Ind & Eng Chem 34:147-52 F '42

Continental points way to future in its new Louisiana refinery at Lake Charles. W. T. Ziegenhain. flow diag il map Oil & Gas J 40:34-6, 38-9 N 20 '41

Conversion of refineries to war production explained. H. S. Norman. Oil & Gas J 41:13-14 Ag 6 '42

Cracking oil from Arabia gives high gasoline yield. D. Read, jr. and G. Egloff. Oil & Gas J 40:156, 159 D 25 '41

Crude naphtha stabilizer performance. J. Q. McGiffin. flow diag bibliog il diags Am Inst Chem Eng Trans 38:761-88 Ag '42; Same. Nat Pet N 34 pt 2:R277-80, R282, R284-5 Ag 26 '42; Discussion. Am Inst Chem Eng Trans 38:789-90 Ag '42

Crude selection important in 100-octane fuel production; oils that contain high-octane naphtha, by fields. W. L. Nelson. bibliog Oil & Gas J 40:14-15 Ja 1 '42

Design of 100-octane units being standardized by OPC. H. S. Norman. il Oil & Gas J 40:10-11 F 12 '42

Desulfurization for 91-octane manufacture. W. L. Nelson. flow diag Oil & Gas J 41:56 O 22 '42

Details of new refinery installation on Louisiana's Gulf coast at Lake Charles; alkylation and polymerization units. H. L. Flood. flow diag il plan Pet Eng 13:34+ N '41

Diagrammatic flow sheet illustrating processes related to production of aviation gasoline. Nat Pet N 34:R3 Ja 7 '42

Economics of the alkylation process in the production of high-octane gasoline. R. G. Lovell. flow diags Pet Eng 13:27-30 Mr '42

Flow charts for the synthesis of aviation gasoline. Oil & Gas J 40:95, 98, 103, 106, 111 Mr 26 '42

Half-million tons of metals needed in 100-octane plans. W. T. Ziegenhain. il Oil & Gas J 40:20-1 Mr 12 '42

How Shell saved 6000 h.p. of new compressors in expanding aviation gasoline plants. Nat Pet N 34 pt 2:R256 Ag 26 '42

Isolation of hydrocarbon stocks for 100-octane aviation fuel. W. L. Nelson. diags Oil & Gas J 40:38-9 Ja 8 '42

Lion revamps recovery system to better supply polymerization unit. W. T. Ziegenhain. flow diag il Oil & Gas J 40:37+ D 4 '41

Malodorous mercaptans; caustic-methanol process, Atlantic refining company. H. W. Field. flow diag il Sci Am 166:12-14 Ja '42

Mobilizing petroleum hydrocarbons. G. F. Fitzgerald. bibliog il diag Chem & Met Eng 49:83-7 Mr '42

Naphtha treating pays its way. C. F. Mason, R. D. Bent and J. H. McCullough. il diag Am Pet Inst Proc 22(3):45-9 '41; Same. Oil & Gas J 40:114, 116+ N 6 '41; Discussion. Am Pet Inst Proc 22(3):49-51 '41

New technique raises yield of refinery war materials; Standard oil co. of New Jersey fluid catalyst process in conjunction with the sulfuric acid alkylation. J. P. O'Donnell. diag Oil & Gas J 41:34-5 My 28 '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:224+ D 25 '41

100-octane aviation gasoline; abstract. W. W. Gary. Nat Pet N 34:R67-8 Mr 4 '42

100-octane gas supply boosted with butadiene by-products. flow diag Nat Pet N 34 pt 2:R248 Ag 26 '42

Petroleum refining industry ready to meet phenomenal demand made on it. W. Miller. Min & Met 23:95-6 F '42

Petroleum's past, present and future. R. P. Russell. il Chem & Met Eng 49:84-5 Ja '42

Pyrogallol derivatives as gasoline antioxidants. W. W. Scheumann and J. H. Haslam. bibliog Ind & Eng Chem 34:485-8 Ap '42

Reaction chambers on thermal cracking units. R. C. Mithoff and L. F. Schimansky. flow diag Am Pet Inst Proc 22(3):52-7 '41; Same. Oil & Gas J 40:135-6+ N 6 '41; Discussion. Am Pet Inst Proc 22(3):57-8 '41

Recent advances of catalysis in chemical process industries; recent applications. bibliog Chem & Met Eng 49:106-10 O '42

Refiners discuss methods of cracking-plant operation to reduce yields of motor fuel. Oil & Gas J 41:62 S 17 '42

Refinery practice for the operating man; vocational class proceedings in refinery engineering (cont). flow sheets Pet Eng 13:78+ N; 53-4, 57, 60 D '41; 31-2, 34, 36 Ja; 94, 96, 99-100 F; 38+ Mr '42

Refining methods available for wartime demands. J. F. Thornton and W. C. Dickerman, jr. Oil & Gas J 40:80 F 26 '42

Replacing butylenes with pentylenes for alkylates. W. L. Nelson. Oil & Gas J 41:53 S 10 '42

See supply of aviation gasoline enlarged through hydrofluoric acid alkylation. diag Nat Pet N 34:R131-2 Ap 29 '42

Shell isomerization process for producing isobutane. L. J. Coulthurst. flow sheet Nat Pet N 33:R403-4+ D 24 '41; Same. Pet Eng 13:113, 116+ Ja '42

Standard oil company of New Jersey develops simultaneous method of making rubber, 100-octane gasoline. Nat Pet N 34:16 My 27 '42

Texas refiners are ordered to get utmost naphtha yield from aviation type crudes. Nat Pet N 34:6 Ja 14 '42

Thermodynamics in isomerization. P. Buthod and W. L. Nelson. Oil & Gas J 40:120-1 Mr 26 '42

Three types of contracts for 100-octane plants. Oil & Gas J 40:14-15 Ja 8 '42

Twice as many refineries to be producing aviation gasoline by this time next year. Oil & Gas J 41:71-2 S 10 '42

2-in-1 gas and rubber; Standard Oil of New Jersey's new cracking process. Business Week p16 My 30 '42

U.S. may need 500,000 barrels more crude refining capacity. W. Miller. Nat Pet N 34:21-2 F 11 '42

War gives refining new spot in Nation's economic program. W. T. Ziegenhain. il Oil & Gas J 40:54-5 Mr 26 '42

See also

Doctor solution

Gasoline, Natural—Manufacture

Petroleum refining

Hydrogenation process (coal)

See Coal liquefaction

Measurement

New lucite gas gage. il diag Bus Transportation 21:330 Jl '42

Progress report on volumeter research. R. J. S. Pigott. Am Pet Inst Proc 22(4):54-5 '41

Wartime conservation of meters calls for periodic inspection. H. G. Smith. diags Nat Pet N 34:34-5 Ag 12 '42

Prices

Ceiling on gasoline prices keep motorists' costs at low figure; trend of retail gasoline prices, 1933-1941. H. S. Norman. Oil & Gas J 40:98+ Ja 29 '42

Full text of order freezing retail gas prices. Nat Pet N 34:12+ My 6 '42

Gasoline prices, 1926-1941. Automotive & Aviation Ind 86:75 Mr 15 '42

Gasoline service-station prices in effect during 1941, exclusive of taxes, in 50 representative cities, with price changes and dates; tabulation. H. S. Norman. Oil & Gas J 40:100 Ja 29 '42

How to get an increase in retail gas prices. Nat Pet N 34:36 S 9 '42

GASOLINE—Prices—*Continued*
OPA allows retailers to use October 1-15, 1941 margins; text of amendment. Nat Pet N 34:29 O 7 '42
OPA sets May 18 to freeze all retail gasoline prices; with text of order. Nat Pet N 34:3, 6 Ap 29 '42
OPA will allow 3c margin to price-selling stations. Nat Pet N 34:3+ Ap 8 '42
Oil price freeze move still confuses industry. Nat Pet N 33:5-6 N 26 '41
Outlook for refinery market is clouded by exigencies of war. H. S. Norman. Oil & Gas J 40:91-2 Ja 29 '42
Service-station price outlook circumscribed by OPA ceiling. H. S. Norman. Oil & Gas J 41:84+ Jl 30 '42
Specific tank-wagon prices applied in 21 western cities. Oil & Gas J 40:34 My 7 '42
Tank-wagon prices in 50 cities. Published in weekly numbers of Oil and gas journal

Rating

Precision of motor fuel testing; report from Cooperative fuel research committee. D. B. Brooks and R. B. Cleaton. S A E J 50:392-401 S '42
Winter gasolines. Consumers' Research Bul 9:16-19 F '42

See also Gasoline—Anti-knock and anti-knock mixtures

Rationing

A-B-X of gas rationing. Business Week p16 My 16 '42
Armed forces absorb most oil withdrawn from civilian use. H. S. Norman. Oil & Gas J 41:22-3 O 8 '42
As gas goes; so go tax revenues. M. Ainsworth. Automotive & Aviation Ind 86:17-19 Je 1 '42
Battle for coupons; problems in rationed areas. il Nat Pet N 34:30-1 S 2 '42
Big inch grows; but extension of pipeline to East coast won't plug leaks in rationing. Business Week p19-20 N 7 '42
Canada divides cars into three classes in rationing. Oil & Gas J 40:16-17 Mr 19 '42
Canada's gas cut. Business Week p42+ Mr 28 '42
Canada's gasoline rationing plan drastic in restrictions. Oil & Gas J 40:17 F 5 '42
Canadian fuel restrictions on various classes of drivers. For Comm W 6:28 Mr 28 '42
Canary Islands gasoline situation. For Comm W 7:12 Ap 18 '42
Car owners who save gas not to be penalized. Comm & Fin Chr 155:2215 Je 11 '42
Claim men denied preferred status in rationed area. T. E. Harris. Nat Underw 46:19 S 3 '42
Confusion widespread among rationed eastern motorists. Oil & Gas J 41:23-4 My 21 '42
Cuban gasoline-rationing-card system extended. For Comm W 7:14 Je 27 '42
Cuban wartime commodity controls. For Comm W 8:12 S 19 '42
Curb of C rations tightened, list cut. Comm & Fin Chr 156:1648 N 5 '42
Define government business for X gas ration cards. Comm & Fin Chr 155:1951 My 21 '42
Developments expected from new gasoline rationing system. Barron's 22:12 Jl 27 '42
Eastern jobbers seek lower rent, new lines as gas sales drop. Nat Pet N 34:30-2 Je 10 '42
Effect of curtailed driving and rationing on gas consumption shown by states, January through July; tabulation. Nat Pet N 34:4 O 14 '42
Effect of gas rationing on insurance men. R. E. Richman. Nat Underw 46:10 My 28 '42
Effects of gasoline rationing appraised. Barron's 22:12 Ap 27 '42
Effects of nationwide rationing on oil companies. Barron's 22:12 S 14 '42
FDR calls temporary halt on national gas rationing. Nat Pet N 34:5-6 Je 10 '42
Gas deliveries cut. Business Week p36 Ap 18 '42
Gas ration, an X quantity. Business Week p15 My 23 '42
Gas ration cards described by OPA; WPB orders 15% cut in East. Comm & Fin Chr 155:1784, 1787 My 7 '42
Gas ration plan for entire country proposed. Comm & Fin Chr 156:465 Ag 6 '42
Gas rationing confusion not reduced as quickly as desired, says FDR. Comm & Fin Chr 155:1949 My 21 '42
Gas rationing hits company men. Nat Underw 46:15 Ag 27 '42
Gas rationing is only way to save tires. L. Henderson. Nat Pet N 34:7-8 Je 17 '42
Gas rationing opponents build record of protests. Nat Pet N 34:3+ Je 3 '42
Gas rationing plan extended to OPA; present unit doubled. Comm & Fin Chr 155:2298 Je 18 '42
Gas rationing regulations covering coupon plan issued. Nat Pet N 34:9-10 Jl 15 '42
Gasoline and tire restrictions raise numerous questions. Nat Underw 46:5 N 5 '42
Gasoline rationing and the agent; how to proceed to obtain the proper card. O. J. Arnold. Ins Field (Life ed) 71:22-4 N 6 '42
Gasoline rationing in Canada. For Comm W 6:25 F 28 '42
Gasoline rationing regulations in Canada. For Comm W 7:10-11 Ap 18 '42
Gasoline rationing starts May 15. Oil Paint & Drug Rep 141:4 Ap 27 '42
Gasoline rationing to nonresident tourists in Canada. For Comm W 7:13 Je 6 '42
How gasoline rationing affects states; importance of automobile use taxes to various states in 1941. J. D. Kelly. Barron's 22:5 Jl 20 '42
How gasoline rationing hits business; abstract. L. S. Wellstone. Management R 31:315-16 S '42
Minimum eastern ration will permit 2,880 miles of travel. Oil & Gas J 41:19 Jl 2 '42
Motor fuel allocated to East depends on transportation. H. D. Ralph. Oil & Gas J 40:61 Ap 30 '42
Motorists now save tires beyond Baruch request; reports on public reaction to national gasoline rationing. Nat Pet N 34:3-8 N 4 '42
Nationwide gas rationing to cut use 48%. Nat Pet N 34:5 O 7 '42
Nationwide gasoline rationing ordered—speed limit for automobiles 35 miles. Comm & Fin Chr 156:1184 O 1 '42
Nationwide gasoline rationing to go into effect November 22. Roads & Sts 85:40 O '42
Nebraska's highway users point futility and injustice of eastern gas rationing plan. Nat Pet N 34:4-7 O 21 '42
Needless rationing of gasoline protested. Nat Pet N 34:15-16 O 21 '42
New gas ration plan postponed until July 22. Comm & Fin Chr 155:2397 Je 25 '42
New gas rationing plan gives "A" card holders 16 gallons per month. Comm & Fin Chr 156:20 Jl 2 '42
New rationing plan cuts basic automobile use to 2,880 miles per year. Nat Underw 46:6 Jl 16 '42
OPA gas rationing concept changes to mileage control. O. H. Knight. Nat Pet N 34:3+ S 30 '42
OPA gives complete details on East's coupon rationing. Nat Pet N 34:8 Jl 1 '42
OPA plans 7 types of books for rationing gas in East; to follow up coupons. Nat Pet N 34:6-7 Je 10 '42
OPA plans tougher rules for obtaining "C" rations. Nat Pet N 34:14 O 28 '42
OPA sets 3 gallons as gas ration unit. Nat Pet N 34:3, 5-6 My 13 '42
OPA warns ration violators as new plan starts in East. Nat Pet N 34:11 Jl 29 '42
OPA's gas rationing powers broadened by WPB directive. Nat Pet N 34:8 Jl 15 '42
Permanent plan of gasoline rationing. Monthly Labor R 55:282-3 Ag '42
Permanent rationing plan for eastern area adopted. Oil & Gas J 41:23 Je 18 '42
Petrol allowances. Economist 142:566 Ap 25 '42
Petrol rations. Economist 142:872 Je 20 '42

GASOLINE—Rationing—*Continued*

Petroleum industry committee for district 2 takes unqualified stand against curtailment. F. Phillips. Oil & Gas J 41:32-3 My 28 '42
Political and industrial protests interrupt rationing program. H. D. Ralph. Oil & Gas J 41:22 Je 4 '42
Quota system killed by WPB in ration area. Nat Pet N 34:3+ Jl 22 '42
Rationed driving. Business Week p14 Mr 21 '42
Rationed gas in Canada. Business Week p47-8 F 14 '42
Rationed gasoline. Business Week p14 Mr 28 '42
Rationed nation. Business Week p14 O 3 '42
Rationing and construction workers. Arch Rec 91:12 Je '42
Rationing decision postponed as committee studies rubber; gasoline consumption declines. J. P. O'Donnell. Oil & Gas J 41:22 Ag 13 '42
Rationing of gasoline. Monthly Labor R 54:1334-6 Je '42
Rationing of gasoline becomes effective in Canada on April 1st. Roads & Bridges 80:74+ Ja '42
Rationing of motor fuel in the Union of South Africa. For Comm W 6:28-9 Mr 28 '42
Rationing of sugar and gasoline in Canada. Monthly Labor R 55:283-4 Ag '42
Rationing plan explained. J. Dean. Nat Pet N 34:5-6 Jl 8 '42
Rationitis; gasoline rationing brings new problems. il Nat Pet N 34:29-32+ Ag 26 '42
Registration for gas coupons in East to be simpler; preferred users named. Nat Pet N 34:6-7 Jl 8 '42
Some effects of nationwide gasoline rationing. Barron's 22:12 Je 8 '42
Status of public accountants under gasoline rationing regulations. J Account 74:379 O '42
Threats, cries of chiseler herald gasoline rationing. Nat Pet N 34:3+ My 20 '42
Unit value reduced in specified Canadian provinces. For Comm W 8:14-15 Jl 4 '42
Weakness of early rationing plans shown in May figures. J. P. O'Donnell. Oil & Gas J 41:23 Ag 6 '42
Why rationing is necessary. H. L. Ickes. Oil & Gas J 40:32-3 My 7 '42
Workers' gasoline; Detroit fears breakdown in transportation. Business Week p17-18 My 30 '42

Specifications

British specifications revised for aviation fuel base stocks; other products. Nat Pet N 34:R102, R104 Ap 1 '42
Commercial vehicles and lower-octane fuels; from the fleet operator's viewpoint. F. L. Faulkner. S A E J 50:132-6 Ap '42
Sulfur specifications for motor fuel. A. W. Trusty. Oil & Gas J 41:59-60 Je 18 '42

Sulfur content

Bender lead sulfide treating process proves economical. L. Eaby. bibliog il diag Oil & Gas J 40:25-7 Ja 22 '42
Catalytic desulfurization by use of the Gray process. A. M. Martin and L. Carlson. diag Oil & Gas J 40:138+ Mr 26 '42
Desulfurization for 91-octane manufacture. W. L. Nelson. flow diag Oil & Gas J 41:56 O 22 '42
Desulfurizing properties of zinc hydroxide. K. A. Musatov and L. G. Krymova. Oil & Gas J 41:40-1 My 21 '42
Influence of sulfur compounds on octane number and lead susceptibility of gasolines. J. G. Ryan. bibliog Ind & Eng Chem 34:824-32 Jl '42; Same. Nat Pet N 34 pt 2: R234-9, R286-8 Jl 29-Ag 26 '42
Isolation of sulfur compounds from a California straight-run gasoline. O. L. Polly, A. C. Byrns and W. E. Bradley. bibliog Ind & Eng Chem 34:755-8 Je '42
Malodorous mercaptans; caustic-methanol process, Atlantic refining company. H. W. Field. flow diag il Sci Am 166:12-14 Ja '42
Sulfur limits in gasoline. C. D. Lowry, jr. and G. Egloff. bibliog Oil & Gas J 40:52, 54 D 11 '41
Sulfur specifications for motor fuel. A. W. Trusty. Oil & Gas J 41:59-60 Je 18 '42
Test methods for control of gasoline treating processes. A. W. Trusty. Pet Eng 13:58, 60, 62 Ja '42
What can be done about sulphur in the refinery? A. W. Trusty. flow diags Pet Eng 13:72-4, 76-7 My '42

Taxation

Accumulated state gasoline taxes and motor vehicle fees collected since first levy through 1940. Nat Pet N 33:32 D 10 '41
As gas goes, so go tax revenues. M. Ainsworth. Automotive & Aviation Ind 86:17-19 Je 1 '42
Automotive taxes; tabulations. Automotive & Aviation Ind 86:77 Mr 15 '42
Farmer's taxes, new and old. M. W. English. 51p pa 15c Nat. highway users conference, Washington, D.C. '41
Gasoline tax and city revenue, including an examination of the situation in Louisiana. W. E. Waltz. 25p bibliog(p4) Bur. of government research, Louisiana state univ, University, La. '40
Goodby to taxes; states losing out on gas levies. Business Week p26+ Jl 11 '42
How gasoline rationing affects states; importance of automobile use taxes to various states in 1941. J. D. Kelley. Barron's 22:5 Jl 20 '42
Motor-fuel consumption, 1941; tabulated by states. Pub Roads 23:99 Jl-S '42
Municipal news; decreases in motor fuel tax collections. Comm & Fin Chr 156:272 Jl 23 '42
Record gasoline taxes last year. Comm & Fin Chr 156:360 Jl 30 '42
Sixteenth annual report, 1941, North American gasoline tax conference, Charleston, West Virginia, Oct. 23-25, 1941. 74p Federation of tax administrators, 1313 E. 60th st, Chicago '42
State motor-fuel tax receipts, 1941; tabulated by states. Pub Roads 23:100 Jl-S '42

Testing

Air humidity control in laboratory knock testing; abstract. H. W. Kellogg. Nat Pet N 34 pt 2:R387 O 28 '42
Effect of altitude on knock rating in CFR engines. D. B. Brooks. bibliog J Research Nat Bur Stand 28:713-34 Je '42
Front-end volatility of gasoline blends. N. B. Haskell and D. K. Beavon. Ind & Eng Chem 34:167-70 F '42
1941 CFR road detonation tests. J. M. Campbell and others. Am Pet Inst Proc 22(3): 90-6 '41; Same. S A E J 50:458-64 O '42: Excerpts. Nat Pet N 33:R381-2+ N 26 '41; Abstract. Automotive & Aviation Ind 86: 36-8 F 1 '42
1941 report of the automotive survey committee. Am Pet Inst Proc 22(3):98-9 '41
Photocell-controlled dynamometer loader; motor fuel research. R. R. Proctor. il diags Instruments 15:194-5 Je '42
Prediction of octane numbers and lead susceptibilities of gasoline blends. D. Eastman. Ind & Eng Chem 33:1555-60 D '41
Proposed method of test for potential gum in aviation gasoline. diags Am Soc T M Proc 41:351-5 '41
Test methods for control of gasoline treating processes. A. W. Trusty. Pet Eng 13:58, 60, 62 Ja '42
Typical lead responses. W. L. Nelson. bibliog Oil & Gas J 40:68+ N 27 '41

Transportation

Conversion to truck hauls nears 100% in district 3. Nat Pet N 34:30 Je 3 '42
Developments in the transportation of flammable liquids on the Pacific coast. E. M. Fitz. Am Pet Inst Proc 22(1):61-6 '41; Same. Nat Pet N 33:33-6 N 12 '41

GASOLINE—Transportation—*Continued*

Gasoline cans for invasion parties. il Oil & Gas J 41:44 Jl 2 '42

Possibilities of Mareng cell; transporting motor fuel to distressed localities. il Steel 111:68+ Jl 6 '42

Refiners alter distribution to comply with directive 57. H. S. Norman. il map Oil & Gas J 41:20-2 Ag 27 '42

Study effect of directive on tank cars. Nat Pet N 34:3-4 Ag 26 '42

Tank car gasoline shipments banned by OPC in 20 states. Nat Pet N 34:21 Ag 26 '42

They keep rollin' 24 hours a day in Texas to release tank cars for East Coast hauls. il Nat Pet N 34:32+ Ap 22 '42

Thompson hits Sunday ban halting Texas tank trucks. Nat Pet N 34:19 F 25 '42

See also

Gasoline delivery
Gasoline pipe lines
Tank cars
Tank ships
Tank trucks

Volatility

Butane as a source of motor fuel volatility. J. W. Vaiden and J. O'Reilly. Pet Eng 13:116, 118+ My '42

Front-end volatility of gasoline blends. N. B. Haskell and D. K. Beavon. Ind & Eng Chem 34:167-70 F '42

GASOLINE, Natural

Action urged that will elevate natural-gasoline use. R. E. Miller. Oil & Gas J 41:29+ My 21 '42

Cracking of petroleum hydrocarbons. L. J. Willien. Gas Age 90:13-14+ N 5 '42

Full war responsibility given natural gas and gasoline men. R. E. Allen. Oil & Gas J 41:36+ My 14 '42

Importance of natural gasoline and its derivatives to the synthetic rubber and aviation gasoline programs; abstracts. F. H. Dotterweich and P. Raigorodsky. Nat Pet N 34:19 O 14 '42

Natural-gasoline producers warned parade is passing; manufacturers should become active in supplying butanes and propanes for the manufacture of butadiene, styrene and toluene. D. E. Buchanan. Oil & Gas J 41:28+ My 21 '42

Shortage of natural gasoline lies ahead, but prices drop 2c in less than a month. Nat Pet N 34:19 F 18 '42

See also

Liquefied petroleum gas

Directories

Survey of natural gasoline plants in the United States; listed by states. Oil & Gas J 41:85, 87+ My 14 '42

Manufacture

Application of corrosion resistant alloys to natural gasoline plants. B. B. Morton. il Nat Pet N 34 pt 2:R308-13 S 30 '42

Compressor-absorption type gasoline plant produces four products. F. H. Love. il Pet Eng 13:149-50, 152 My '42

Conversion of gasoline plants to increase isobutane extraction. W. L. Rifenberick. flow sheets Pet Eng (Annual no) 13:150+ [Jl] '42

Francitas cycling plant extracts condensate at high pressure. F. H. Love. il Pet Eng 13:72, 74+ Ja '42

Griffin New Harmony operation a cooperative success; project involves gathering of gas produced with oil in three fields; compression, extraction and stabilization of liquids; and dehydration and return of residue gas to producing formations. H. W. Harts; C. Frye. flow diag il diag maps Oil & Gas J 41:59-62+ O 29 '42

Increasing recovery of liquefied petroleum gas in natural-gasoline plants. J. W. Wilson. bibliog Oil & Gas J 41:66-8+ My 14 '42; Same. Pet Eng 13:40+ Jl '42; Excerpts. il Nat Pet N 34:R170-2+ My 27 '42

La Gloria condensate recovery plant unusual joint enterprise. N. Williams. il map Oil & Gas J 40:30-2+ Ja 1 '42

Natural gas cycling industry expands with valuable by-products. F. H. Dotterweich. bibliog il Am Gas J 156:40-1+ My '42

New Shell plant at Cromwell shows trend to simplification. H. F. Simons. il Oil & Gas J 41:58+ S 10 '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:264+ D 25 '41

Protection of natural gasoline plants from air raids. D. Attaway. il diags Pet Eng (Annual no) 13:142, 145-6, 148 [Jl] '42

Safe practices in the natural gasoline plant. D. Attaway. il Pet Eng 13:96, 99-100, 102 Je '42

Safety in small plants pays big dividends; natural gasoline department of the Arkansas fuel oil company. D. Attaway. il Pet Eng 13:50+ Ja '42

Simplified method of processing characterizes cycling plant. F. H. Love. il Pet Eng (Annual no) 13:33-4 [Jl] '42

Useful devices for operators in natural gasoline, natural gas, and allied fields. il diags Pet Eng 13:58+ Jl '42

Prices

Composite price schedule of California natural gasoline in cents per gallon; table. Oil & Gas J 40:55 F 26 '42

Statistics

Natural-gasoline plants are reflecting influence of war. H. S. Norman. il Oil & Gas J 41:30-1+ My 14 '42

Survey of natural gasoline plants in the United States; listed by states. Oil & Gas J 41:85, 87+ My 14 '42

GASOLINE, Substitutes for

Alternative motor fuels. N. C. Jones. il diags Automotive & Aviation Ind 87:40-4+ Ag 1 '42

Gasoline substitutes are being studied. C. E. Nabuco de Araujo, jr. Chem & Eng N 20:1309-10 O 25 '42

Motoring sans gasoline. C. H. Vivian. il diag Comp Air M 47:6841-5 S '42

Petrol substitutes in South Africa. Engineer 174:79-80 Jl 24 '42

Producer-gas handling gear conserves petrol. T. K. Cordes. Mech Handling 29:181-2 O '42

GASOLINE delivery

Company operation of stations; California Standard's program; delivering of gasoline to stations handled by separate agency. V. B. Guthrie. il Nat Pet N 34:24+ F 4 '42

See also

Tank trucks

GASOLINE handling

Electrical charges produced by flowing gasoline. S. S. Mackeown and V. Wouk. il diags Ind & Eng Chem 34:659-64 Je '42

See also

Gasoline delivery
Gasoline service stations
Tank trucks

GASOLINE industry

Effect of rubber shortage on oil. C. L. Burrill. Nat Pet N 34:16-18, 26 Ap 22 '42

Pure Oil lifts sales of related items 20-35% with mobilization contest. W. P. Marquam. il Sales Management 50:48, 50-1 Mr 15 '42

Ratio of oil to gasoline sales depends on sales effort and local conditions. map Nat Pet N 33:34+ D 3 '41

Refiners study the effects of changed driving habits; relation of gasoline consumption to speed and to tire rationing. W. T. Ziegenhain. Oil & Gas J 40:51 F 26 '42

See also

Gasoline—Prices
Gasoline pipe lines
Gasoline service stations
Oil bulk stations
Petroleum refining

Aviation market

See also

Airplane engines—Fuel

GASOLINE industry—*Continued*

Laws and regulations

Coloring of tax-free gasoline. (Research report 12) 20p pa 75c Federation of tax administrators, 1313 E. 60th st, Chicago '42

Refiners alter distribution to comply with directive 57. H. S. Norman. il map Oil & Gas J 41:20-2 Ag 27 '42

Study effect of directive on tank cars. Nat Pet N 34:3-4 Ag 26 '42

Tank car gasoline shipments banned by OPC in 20 states. Nat Pet N 34:21 Ag 26 '42

See also

Gasoline—Rationing

Gasoline—Taxation

Statistics

Armed forces absorb most oil withdrawn from civilian use. H. S. Norman. Oil & Gas J 41:22-3 O 8 '42

Effect of curtailed driving and rationing on gas consumption shown by states, January through July; tabulation. Nat Pet N 34:4 O 14 '42

Farm expenditures for gasoline, oil, kerosene; tabulation. Automotive & Aviation Ind 86:76 Mr 15 '42

Gasoline outlets, prices and amount consumed; tabulations. Automotive & Aviation Ind 86:75 Mr 15 '42

Highway use of motor fuel climbs 6%; table by states for 1940. Nat Pet N 33:18 N 26 '41

Motor-fuel consumption, 1941; tabulated by states. Pub Roads 23:99 Jl-S '42

See also

Gasoline, Natural—Statistics

California

California refiners cushion cost rise by consolidation. L. P. Stockman. il Oil & Gas J 41:10-11 Jl 2 '42

Canada

Canada divides cars into three classes in rationing. Oil & Gas J 40:16-17 Mr 19 '42

Canadian truckers not hit by gasoline rationing. Nat Pet N 34:4 Mr 11 '42

Consumption of gasoline rises sharply in Canada; statistics of products consumption, 1941, Jan.-May 1942. W. V. Howard. Oil & Gas J 41:28 Je 18 '42

Gasoline ration coupons effective April 1, 1942. For Comm W 6:30 Ja 24 '42

Gasoline situation in Canada. C. D. Howe. Roads & Bridges 80:62, 64+ O '42

Chile

Serious gasoline situation has arisen. R. Zoellner I. Chem & Eng N 20:1310-11 O 25 '42

France

Grave exigency in France. For Comm W 7:32 My 23 '42

Middle western states

Low price ceilings hurt mid-west jobbers but labor shortage is even more acute. Nat Pet N 34:36-8 N 4 '42

Nebraska

Nebraska's highway users point futility and injustice of eastern gas rationing plan. Nat Pet N 34:4-7 O 21 '42

New York (state)

Rationitis; gasoline rationing brings new problems. il Nat Pet N 34:29-32+ Ag 26 '42

Ohio

Jobbers in steel mill districts suffer from higher costs; find labor is huge problem. Nat Pet N 34:24-5 O 7 '42

Russia

Ample aviation gasoline for Soviets. For Comm W 7:31-2 Je 27 '42

Southwestern states

Southwest jobber's wartime problems. Nat Pet N 34:40-3 O 14 '42

United States

Ado over gasoline; OPA and industry spar over octane ratings for civilian uses. Business Week p22+ D 27 '41

All-out aviation gas plan includes pooling of stocks, processes, patents, storage. Nat Pet N 33:19 D 17 '41

Civilian gasolines likely to be cut in octane rating. W. T. Ziegenhain. Oil & Gas J 40:18-19 D 4 '41

Consumption of gasoline may fall 11.5 per cent for year. J. P. O'Donnell. Oil & Gas J 41:16 S 3 '42

More than 20 defense areas granted higher gas quotas. Nat Pet N 34:9 Jl 1 '42

Natural-gasoline industry destined for important war role. Oil & Gas J 40:55 F 26 '42

Oil gets the alert. Business Week p24-5 D 20 '41

Oil outlook for 1942 profoundly affected by war restrictions. H. J. Struth. Pet Eng (Annual no) 13:27-9 [Jl] '42

100-octane plans affect operations of many branches. Nat Pet N 33:9+ D 17 '41

Petroleum marketing and the war effort; abstract. J. W. Frey. Nat Pet N 34:15-16 Mr 4 '42

Pooled petroleum. Business Week p72, 76 O 17 '42

Pooling of aviation-fuel facilities is authorized. Oil & Gas J 40:22 D 18 '41

Rationing decision postponed as committee studies rubber; gasoline consumption declines. J. P. O'Donnell. Oil & Gas J 41:22 Ag 13 '42

Refiners faced with critical decisions concerning yields. H. S. Norman. il Oil & Gas J 41:19 N 5 '42

Refiners fear postwar effects of 100-octane expansion. J. P. O'Donnell. Oil & Gas J 40:15 N 13 '41

Restricted areas contain 13.5 million automobiles. H. S. Norman. map Oil & Gas J 40:60-1 Ap 30 '42

Satisfaction of minimum East Coast demand is in sight, PIWC hears. H. D. Ralph. Oil & Gas J 41:20 S 3 '42

Socony-Vacuum; fights the war from Kokomo (Ind.) to Kirkuk (Iraq). il Fortune 26:110-15+ N '42

SPAB approval speeds aviation gas program. Civil Aero J 3:24 Ja 15 '42

War-quality fuels to become standard when conflict ends; effect of rubber shortage on petroleum industry; abstract. C. L. Burrill. Oil & Gas J 40:34 Ap 23 '42

War's impact bears heavily on Nation's oil jobbers. J. W. Frey. Nat Pet N 34:27+ S 30 '42

GASOLINE pipe lines

Crude oil and gasoline pipe lines in the United States, May 1, 1941. G. R. Hopkins and F. S. Lott. U S Bur Mines Information Circ 7196:1-6 '41

Expansion of pipe lines is vital to war program. P. Reed. Oil & Gas J 40:88 Ja 29 '42

Four Oklahoma refiners plan cooperative gasoline pipe line. Oil & Gas J 41:26 S 17 '42

Method of controlling flow through pipe-line loops. P. Reed. il diag Oil & Gas J 40:33-4 Ap 9 '42

Modified coupling ties lines of different sizes together. il Oil & Gas J 41:59 Ag 6 '42

More lines for oil; with list of major crude oil and gasoline pipe lines. il map Business Week p18, 20, 22 N 22 '41

New gasoline pipeline will deliver fuel to Southeast in near future. Eng N 128:303 F 19 '42

Oil industry committees for national pipeline projects. Oil & Gas J 41:186 S 24 '42

Pipe lines may help solve East Coast supply problem. P. Reed. Oil & Gas J, 40:62 Mr 26 '42

Plantation pipe-line system adopts efficient practices. P. Reed. il Oil & Gas J 40:68-9 Ap 23 '42

Several months' delay likely in gaining pipeline relief. J. O. O'Donnell. il Oil & Gas J 41:22-3 My 21 '42

GASOLINE pipe lines—*Continued*

Sinclair builds gasoline line across Pennsylvania. map Oil & Gas J 40:19 D 4 '41

Tariff suspensions vacated for two defense pipelines. Nat Pet N 34:21 Ja 28 '42

Corrosion

Amount and the measurement of internal corrosion in gasoline pipe lines. J. M. Pearson. bibliog il diags Am Pet Inst Proc 22(4):30-5 '41; Excerpts. Oil & Gas J 40:169-70 N 6 '41; Discussion. Am Pet Inst Proc 22(4):39-45 '41

Experiences with and the effect of the use of scrapers on internal corrosion of gasoline pipe lines. D. E. Sullivan. il Am Pet Inst Proc 22(4):36-8 '41; Same. Oil & Gas J 40:122+ N 6 '41; Discussion. Am Pet Inst Proc 22(4):40-1 '41

Results of corrosion inhibitor demonstrated in products line. S. S. Smith. il Oil & Gas J 41:85, 87+ S 24 '42

Review of methods used to reduce internal corrosion of gasoline pipe lines. W. A. Schulze, L. C. Morris and R. C. Alden. Am Pet Inst Proc 22(4):22-9 '41; Same. Oil & Gas J 40:172-5 N 6 '41; Discussion. Am Pet Inst Proc 22(4):39-45 '41

Maps

Oil and gas journal's map of crude oil and products pipe lines. Oil & Gas J 41:supp S 24 '42

Pumping stations

Centrifugal pumps are widely used in pipeline service. F. R. Young. il Oil & Gas J 41:162+ S 24 '42

Electrification of pipe lines carrying crude products. W. H. Stueve. Oil & Gas J 41:59 My 21 '42

New practices improve crude and products line operation. J. G. Norton. il diag Oil & Gas J 41:78-9, 170 S 24 '42

Plantation pipe-line system adopts efficient practices. P. Reed. il Oil & Gas J 40:69 Ap 23 '42

Suction and discharge control of products pipe line. J. W. Boyd. diag Oil & Gas J 41:96 S 24 '42

GASOLINE pumps

Demurrers argued in gas pump suit. Nat Pet N 33:10 D 24 '41

Gas and oil deliveries checked automatically; printing registers on fuel pumps; Boston elevated railway. il Transit J 85:429-31 N '41

Gasoline pump case dismissed by court. Nat Pet N 34:3-4 F 25 '42

New field for contractors; gasoline pumping systems included in plumbing and heating contracts on war job. diag Dom Eng 160:39 Jl '42

GASOLINE research

Major industry supports general defense; America's fighting advantage in quality of gasoline a product of private research. W. H. Hillyer. il Barron's 22:8 My 4 '42

Petroleum research and wars. B. T. Brooks. bibliog il Ind & Eng Chem 34:798-803 Jl '42

Recovery of gasoline stored in laboratory crude reservoirs. H. Vance and P. Martin. il Oil & Gas J 41:33-4 Jl 23 '42

GASOLINE service stations

Chek-Chart's package service keeps cars rolling profitably; putting former free services into a paid-for group. R. Shaw. Sales Management 50:42-3 My 15 '42

Grief at the pumps; labor and price problems. Business Week p61+ N 15 '41

Ratio of oil to gasoline sales depends on sales effort and local conditions. map Nat Pet N 33:34+ D 3 '41

Truck corps is shot-in-arm for ration-worried dealers. il Nat Pet N 34:28 Ag 26 '42

War booms parking lot business for Seattle service stations. il Nat Pet N 34:27-8+ Mr 11 '42

Chain stations

Company operation of stations; California Standard's program. V. B. Guthrie. il Nat Pet N 34:21-2+ F 4 '42

Construction and design

Pennsylvania jobber designs and builds dream station. il Nat Pet N 33:23, 26-7 N 26 '41

Employees

Gals make good as Tide Water gas service station attendants. W. Brunn. il Sales Management 51:20-2 O 10 '42

Girlpower at work; survey of girl service station attendants. il Nat Pet N 34:31-3 Jl 29 '42

Girls enlist for service on the station island. il Nat Pet N 34:35 Ap 22 '42

Sunoco trains fair sex to fill war's vacancies at stations. il Nat Pet N 34:25, 27-8, 30-2 F 11 '42

Equipment

Conserve your air compressor! il Nat Pet N 34:30-2 Ap 8 '42

District 2 surveys marketing equipment. Nat Pet N 33:12 D 31 '41

Marketing equipment released by M-68-c. Nat Pet N 34:3, 7-9 Mr 25 '42

Hours of business

Gasoline curfew? Business Week p19 F 7 '42

Wartime marketing management; what are the best service stations hours? Nat Pet N 34:40-1 Je 24 '42

Leasing

Station leases and lawsuits. H. B. Fuller. Nat Pet N 34:26, 28 Jl 1 '42

Lighting

Modern lighting makes station stand out. il diag Am Bld 64:81 F '42

Lubricating service

Service stations face more competition as car dealers bid for lube business. Nat Pet N 34:32, 34+ Ja 7 '42

Management

Company operation of stations; California Standard's program. V. B. Guthrie. il Nat Pet N 34:21-2+ F 4 '42

Oil company stations

Company operation of stations; California Standard's program. V. B. Guthrie. il Nat Pet N 34:21-2+ F 4 '42

Service

Car lubrication, servicing prices frozen by OPA. Nat Pet N 34:3+ Je 24 '42

Tire inspection

How stations can become official tire inspectors. Nat Pet N 34:8 S 30 '42

GASOLINE service stations, Jobbers'

Jobber develops own management plan to handle over 1500 non-oil items; Dayton plan. il Nat Pet N 33:27-8, 32, 36+ D 17 '41

GASOLINE storage

Recovery of gasoline stored in laboratory crude reservoirs. H. Vance and P. Martin. il Oil & Gas J 41:33-4 Jl 23 '42

See also

Gasoline tanks
Oil bulk stations
Oil tanks

Fires and fire protection

Detecting the saboteur, static electricity in gasoline fires. R. Beach. il diags Elec Eng 61:501-8 O '42

Gasoline storage hazards. Safety Eng 83:36 My '42

Here's why gasoline shouldn't be hoarded. Nat Pet N 34:32 S 2 '42

National board warns hoarders of gasoline. Weekly Underw 146:772 Ap 4 '42

Prevention of fires, explosions, and accidents from inflammable fluids. G. M. Kintz. Pet Eng 13:77+ Je; 75-6+ Jl '42

Saving men and metal in natural-gasoline plant. il Oil & Gas J 41:35 Jl 2 '42

GASOLINE tanks

Practical methods for storing volatile liquids. D. E. Larson. il Am Inst Chem Eng Trans 38:1-22 F '42; Same cond. Nat Pet N 34: R105-7, R110-12 Ap 1 '42; Abstract. Chem & Met Eng 49:153-4 Ap '42; Discussion. Am Inst Chem Eng Trans 38:22-3 F '42

Painting

Lower heat absorption of white tank paints; abstract. P. L. Lotz. Nat Pet N 34:R88 Mr 18 '42

Savings from painting of gasoline-storage tanks. Oil & Gas J 40:51 Ap 16 '42

GASPÉ peninsula

See also

Geology—Gaspé peninsula

GASTEROPODA, Fossil

Fossil turritellas from the Pacific Coast region of North America. C. W. Merriam. il pls diags fold maps Univ of Calif, Bul of Dept of Geol Sciences v 26 no 1:1-213 '41

GASTRIC juice

Effects of jejunal transplants on gastric acidity. P. Stefko, W. D. Andrus and J. W. Lord, jr. Science 96:208-9 Ag 28 '42

GASTROINTESTINAL diseases. See Digestive organs—Diseases

GASTROLITHS

Some field observations bearing on the origin of the Morrison gastroliths. W. L. Stokes. Science 95:18-19 Ja 2 '42

GATES

Four-fold swing gate at Corning glass works is 100 ft. wide. il Eng N 128:61 Ja 8 '42

How to build two styles of gates. il diags Am Bld 64:96-7 My '42

GATES, Hydraulic

Bonneville spillway gates; abstract. T. M. Ober. Power 85:977 Mid-D '41

Falsework for arches set on drum gates; highway bridge across Grand Coulee Dam spillway. il diag Eng N 128:552-3 Ap 9 '42

Spillway coefficients at an eastern dam; model-prototype conformity. G. H. Hickox. diag plan Am Soc C E Proc 68:1334-42 O '42

Underflow studies at Lake Issaqueena. J. W. Johnson. il Civil Eng 12:513-16 S '42

Control

Gate-lift control holds constant head; Grandfathers Falls hydro station. M. E. Reagan. il diag Elec W 117:842 Mr 7 '42

Motor-driven gates cut operating time. il Elec W 117:1870-1 My 30 '42

GATTERMANN, Ludwig, 1860-1921

Ludwig Gattermann. R. E. Oesper. por(sup 17) J Chem Educ 19:444-5 S '42

GAUGE and tool makers' association, limited

Organization. Engineer 174:286 O 2 '42

GAUGER, Alfred William, 1892-

1942 A.S.T.M. medal to F. C. Todd and A. W. Gauger. por Am Cer Soc Bul 21:187 S 15 '42

GAYLORD container corporation

$6,000,000 debentures sold privately. Comm & Fin Chr 156:428 Ag 3 '42

GEAR cutting

Automatic stand-by power equipment speeds machining of gears. il Blast F & Steel Pl 30:1015 S '42; Same. Iron Age 150:57 N 12 '42

Emergency power supply for continuous machining; DeLaval turbine co. H. M. Martin. il diag Power Pl Eng 46:82-3 N '42

Gears and gear cutting. A. H. Candee. il diags Am Mach 86:1006-9, 1162-4, 1221-3 S 17, O 15, 29 '42

Large gears cut with a slotter. S. Koffsky. diags Iron Age 148:52-3 D 25 '41

Sir Charles Parsons and mechanical gearing. S. F. Dorey. il Engineering 154:377-80 N 6 '42; Same cond. with diags Engineer 174: 261-2 S 25 '42

GEAR cutting machines

Continuous power for marine gear cutting. A. A. Ross. il diag Elec W 116:1742, 1744 N 29 '41

Craven gear hobbing machine. il Engineer 173:476-7 Je 5 '42

Fellows gear-finishing machines. il Mach 48: 213 Ap '42

Gear cutter grinding attachment. il Engineer 174:201 S 4 '42; Automobile Eng 32: 411 O '42

Gould and Eberhardt 10-ft. duplex gear-hobbing machine. il Engineering 153:205-8, 210 Mr 13 '42

Herbert gear-cutter grinding attachment. il Engineering 154:266 O 2 '42

High-speed gear-hobbing attachment on an 18-H Gould & Eberhardt machine. il Mach 48:154-5 Mr '42

How Chrysler rebuilt 44 machines assigned to storage; gear finishes made into milling machines. il Automotive & Aviation Ind 86: 32-3 Je 1 '42

Michigan 862 series crossed-axis gear-finishing machines. il Mach 48:172 Ag '42; Steel 111:178-9 S 14 '42

Michigan gear-shaving machine for finishing small gears. il Mach 49:201 S '42; Aviation 41:167 O '42

Michigan gear-shaving machines designed for finishing large gears. il Mach 48:164-5 D '41; Am Mach 85:1343-4 D 24 '41

Michigan tool co. gear shaver. il Steel 111:94 Jl 20 '42; Am Mach 86:799 Jl 23 '42; Mach 48:238 Jl '42

Micron spur and helical gear hobber. il Mach 48:217-18 Ap '42

National broach & machine co.'s gear-shaving machine for finishing small precision gears. il Mach 49:240 N '42

Production and use of large spiral-bevel gears. il Engineering 153:87-8, 90 Ja 30 '42

Wickman-C.V.A. gear hobbing machine. il Automobile Eng 32:13 Ja '42

GEAR testing machines

Michigan Sine line machine for checking spiral-gear leads. il Mach 48:162-3 Mr '42; Steel 110:102 F 23 '42

GEARING

Add new teeth to gear without welding. A. Gray. Power 86:761b-761c O '42

Design and application of speed reducers. W. F. Plume. il Steel 111:98, 100+ N 2 '42

Fit the reducer to the drive for trouble-free low-cost service. W. F. Plume. il Power 86:315-17 My '42

Flexible bearings, bushings and gears of rubber or neoprene. W. L. Nelson. diags Oil & Gas J 40:160 D 25 '41

Infra-red lamps loosen gears. il Elec W 117: 698 F 21 '42

Mechanism for adjusting throw or radial position of block on rotating arm. diags Mach 48:131 Ag '42

Meehanite a substitute material for gear cases and propellers. Marine Eng 47:261 O '42

National emergency gear steels. E. F. Davis. il diags Iron Age 150:45-9 Ag 6; 58-64 Ag 13 '42

New gear teeth with bronze welding. A. R. Ciotti. diags Power 86:664 S '42

Silent steel gear extends drive life; Stowe-Woodward hard rubber dust grinder. J. A. Clark. diag Machine Design 14:156+ Ap '42

Sir Charles Parsons and mechanical gearing. S. F. Dorey. il Engineering 154:277-8, 297-8, 377-80 O 2-9, N 6 '42; Same cond. with diags. Engineer 174:238-41, 261-3 S 18-25 '42

Smooth running gear boxes. il Am Mach 86: 821 Ag 6 '42

Synchronizes dual drive; differential gear system; patent. diag Machine Design 13: 124+ D '41

See also

Airplane engines—Gearing
Automobiles—Gearing
Chain gear
Clutches
Couplings
Draft gears
Gear cutting machines
Hydraulic transmission
Motor trucks—Gearing
Power transmission

GEARING—*Continued*

Advertising

Link-Belt's modern catalog technique. il Ind Marketing 27:28-9 Mr '42

Design

Applying mobility method to shaft vibration. R. C. Binder. diags Machine Design 14:62-5+ F '42
Design of gear pumps. J. C. Monahan. diags Product Eng 13:411-12 Jl '42
Dimensional value of lubricants in gear design. J. O. Almen. il diags S A E J 50:373-80 S '42
Eccentric has variable throw; patent assigned to United shoe machinery corp. diag Machine Design 14:144 Ag '42
Gear tooth profiles. C. G. Pfeffer. il diags Product Eng 13:328-30 Je '42
Gears and gear cutting. A. H. Candee. il diags Am Mach 86:1006-9, 1162-4, 1221-3 S 17, O 15, 29 '42
Photoelastic study of stresses in gear tooth fillets. T. J. Dolan and E. L. Broghamer. il diags Ill U Eng Exp Sta Bul 335:1-42 '42 (pa 45c)
Playing hob with involute gears! J. D. Howell. diags Machine Design 14:106-9+ Ap '42

Failures

Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42

Manufacture

Aircraft gear production. J. Geschelin. il diags Automotive & Aviation Ind 86:20-7+ F 15 '42
American gear manufacturers association 26th annual meeting, Hershey, Pa. May 10-12. Iron Age 149:60-2 My 21 '42
Design and manufacture of aircraft engine gearing. P. W. Brown and E. V. Farrar. Mach 49:219-21 N '42
Efficient forging technique; Buick Motor connecting rod caps and counter gear for transmission set. A. F. Macconochie. il Steel 111:76-8 Jl 27 '42
Flame hardening with city gas. R. F. Apter and H. W. Smith, jr. il diags Am Mach 86:947-9, 1012-14, 1088-90 S 3-O 1 '42
Fordson tractors; production of transmission units. il Automobile Eng 32:303-9 Ag '42
Forged pinion saves tons of steel; abstract. W. F. Rockwell. Steel 111:49 S 28 '42
New process speeds gear production. R. S. Drummond. diags Aero Digest 40:170 F '42
Oxyacetylene flame hardening; gears and racks. J. G. Magrath. il diags Am Mach 86:54-7 F 5 '42
Powder metallurgy; oil pump gears. Automobile Eng 32:401 O '42
Powdered metals in machine design. il Mach 49:150-2 S '42
Precise heat treating enables carbon steel parts to meet critical machine tool requirements. F. W. Curtis. il diags Steel 111:72-4, 76+ Ag 3 '42
Substitutes iron powder for bronze. A. F. Macconochie. il Steel 110:98+ Mr 16 '42
Substitution of material in the war effort. E. J. Wellauer. Mach 49:226-9 N '42

See also
Gear cutting
Gear cutting machines

Measurement

Measuring gear tooth thickness. C. A. Young. il diags Am Mach 86:278-9 Ap 2 '42

Tables, calculations, etc.

Approximating gear ratios by continued fractions. R. C. Binder. Machine Design 13:83-4 D '41
Efficiency of worm gears; reference book sheet. A. C. Rasmussen. diags Product Eng 13:179-80 Mr '42
14,000 gear ratios. R. M. Page. 404p $5 Industrial press, 148 Lafayette st, New York '42; Review. Mach 48:153 Je '42
Gearmotor class numbers and service factors for gear speed reducers (except worm gears); data sheet. Power 86:353 Ap '42
Graphical analysis of planetary gear systems. G. J. Talbourdet. diags Machine Design 14:93-6 Ag; 91-4 S; 207-10 O '42

Testing

Durability of gears; abstracts. H. D. Mansion. Engineer 173:522-4 Je 19 '42; Automobile Eng 32:351-6 S '42
Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

See also
Gear testing machines

GEARING, Bevel
Adjustment of bevel gears in assembly. il diags Am Mach 86:529, 531, 613, 615 My 28-Je 11 '42

GEARING, Epicyclic. See Gearing, Planetary

GEARING, Helical. See Gearing, Spiral

GEARING, Planetary
Graphical analysis of planetary gear systems. G. J. Talbourdet. diags Machine Design 14:93-6 Ag; 91-4 S; 207-10 O '42
Know your planetary gears. W. F. Plume. il diags Power 86:161-4+ Mr '42

GEARING, Spiral
Tolerances for spur and helical gears; reference book sheets. Am Mach 85:1161, 1163, 1233 N 12-26 '41; Excerpts. Iron Age 148:42+ D 25 '41

GEARING, Spiral-bevel
Large spiral bevel gears. R. Gardner. il Mech Handling 29:29-30 F '42
Production and use of large spiral-bevel gears. il Engineering 153:87-8, 90 Ja 30 '42

GEARING, Spur
Tolerances for spur and helical gears; reference book sheets. Am Mach 85:1161, 1163, 1233 N 12-26 '41; Excerpts. Iron Age 148:42+ D 25 '41

GEARING, Worm
Breaker worm wheels rebuilt by welding. il diags Elec W 117:2096 Je 13 '42
Bronze gear alloys. Metal Prog 42:61 Jl '42
Efficiency of worm gears; reference book sheet. A. C. Rasmussen. diags Product Eng 13:179-80 Mr '42
New tin-free gear bronze; development by Hamilton gear & machine co. Mach 49:205 N '42
Oxyacetylene flame hardening. J. G. Magrath. il diags Am Mach 86:107-9 F 19 '42
Worm reduction drives for steel plant bridges. A. E. Gibson. il diags Steel 110:72, 74-5+ Ja 19 '42

GEARMOTORS
American gear manufacturers' new standard speeds for gearmotors. Mach 48:142 D '41
Fit the reducer to the drive for trouble-free low-cost service. W. F. Plume. il Power 86:315-17 My '42
Gearmotor class numbers and service factors for gear speed reducers (except worm gears); data sheet. Power 86:353 Ap '42
Gear-motor cuts regulator wear. E. R. Whitehead. il Elec W 117:667 F 21 '42
More life from gearmotors. H. W. Bennett. il Power 86:20-2 Ja '42

GEIER, Otto P. 1874-
Who's who in industrial medicine. por Ind Med 11:170-3 Ap '42

GEIGER-MÜLLER counters
β-ray spectra of rubidium^{86}, strontium^{89}, eka-tantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42
Comparison between a Geiger-Mueller counter, a secondary electron multiplier tube, and photographic film for detecting weak X-rays. A Eisenstein and N. S. Gingrich. bibliog R Sci Instr 12:582-6 D '41
Cosmic ray counter for radiographic exposure meter. Metal Prog 41:812 Je '42
Cosmic-ray radio sonde. H. V. Neher and W. H. Pickering. il diags R Sci Instr 13:143-7 Ap '42

GEIGER-MÜLLER counters—*Continued*

Directional properties of self-quenching counters. W. E. Ramsey. diags Phys R 61: 96-7 Ja 1 '42; Same. Franklin Inst J 233: 595-7 Je '42

Discharge mechanism of fast G-M counters from the deadtime experiment. H. G. Stever. bibliog il diags Phys R 61:38-52 Ja 1 '42

Further confirmation of the Montgomery theory of counter discharge. W. E. Ramsey and W. L. Lees. diag Phys R 60:411 S 1 '41; Same. Franklin Inst J 233:85-7 Ja '42

Geiger Mueller tube, an electronic instrument. P. Weisz. il diag Electronics 14:18-21 D '41

Investigation of the properties and applications of the Geiger-Müller photoelectron counter. O. S. Duffendack and W. E. Morris. bibliog il Opt Soc Am J 32:8-24 Ja '42

Mesotron studies with dual telescope. F. A. Benedetto, G. O. Altmann and V. F. Hess. bibliog diags Phys R 61:266-9 Mr 1 '42

Modification of the Barnes' Geiger-Müller counter. J. C. Wang, J. F. Marvin and K. W. Stenstrom. diag R Sci Instr 13:81 F '42

One-tube quenching-recording circuit for G-M counters. A. W. Coven. diag R Sci Instr 13:188-9 Ap '42

Physics scores an assist; particle detector, with cyclotron, gives medicine a powerful tool. J. V. Sheppard. il Sci Am 165:315-17 D '41

Precision method of measuring Geiger counter resolving times. Y. Beers. bibliog R Sci Instr 13:72-6 F '42

Radiation instruments using Geiger Müller tubes. P. Weisz. il diags Electronics 15:44-8+ O '42

Results of a high altitude cosmic-ray survey near the magnetic equator. H. V. Neher and W. H. Pickering. Phys R 61:407-13 Ap 1 '42

Some discharge characteristics of self-quenching counters. W. E. Ramsey and E. L. Hudspeth. Phys R 61:95-6 Ja 1 '42; Same. Franklin Inst J 233:502-5 My '42

GEISSLER tubes

Sodium-hydrogen Geissler tube. F. M. Goyan. bibliog diag Ind & Eng Chem Anal ed 14: 60-1 Ja 15 '42

GELATIN

Factors influencing the catecholase activity and inactivation of tyrosinase; the effect of gelatin and of catechol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 63:3368-74 D '41

Factors influencing the cresolase activity of tyrosinase; the effect of gelatin and *p*-cresol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 64:2344-8 O '42

Mechanical influence upon tanning. J. Bjorksten and W. J. Champion. Am Chem Soc J 64:868-9 Ap '42

New cystine tests of photographic importance. A. Steigmann. Soc Chem Ind J 61: 52 Mr '42

New restrainer test for photographic gelatins. A. Steigmann. Soc Chem Ind J 61: 67-8 Ap '42

Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

State of aggregation of gelatin in non-gelating systems. E. O. Kraemer. J Phys Chem 46:177-82 Ja '42

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

Analysis

Luminol as reagent for hydrogen peroxide, copper, iron, and cyanide. A. Steigmann. Soc Chem Ind J 61:36 F '42

New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

Persulphate test with luminol and luminescence inductions with sulphurous acid. A. Steigmann. Soc Chem Ind J 61:68 Ap '42

GELATIN capsules. See Capsules, Gelatin

GELATIN products company

Story book stuff; how your vitamin pills get that way. il Sales Management 51:52-3 O 20 '42

GELATION

Constitution of three-dimensional polymers and the theory of gelation. P. J. Flory. bibliog J Phys Chem 46:132-40 Ja '42

Molecular size distribution in three dimensional polymers; gelation. P. J. Flory. bibliog Am Chem Soc J 63:3083-90 N '41

Starch studies; gelatinization of starches in water and in aqueous pyridine. J. W. Mullen, 2d and E. Pacsu. bibliog il Ind & Eng Chem 34:807-12 Jl '42

State of aggregation of gelatin in non-gelating systems. E. O. Kraemer. J Phys Chem 46:177-82 Ja '42

GELS. See Colloids

GEMS

Art of gem cutting. F. S. Young. 2d ed 112p pa $1.50 Mineralogist pub. co, Portland, Ore. '42

See also

Diamonds
Garnets
Precious stones
Turquoise

GENERAL accounting office. See United States—General accounting office

GENERAL alloys company

Expansion trouble; General alloys company dispute with government agencies, a strike, and a Labor board case. Business Week p70-2 Je 20 '42

GENERAL American investors company, inc.

Earnings, 1938-1941. Comm & Fin Chr 155: 189 Ja 13 '42

GENERAL American life insurance company

Report, 1941. Comm & Fin Chr 155:824 F 24 '42

GENERAL American transportation corporation

Another look. Mag of Wall St 70:650 O 3 '42

GENERAL aniline and film corporation

Five executives barred from company. Comm & Fin Chr 155:306 Ja 20 '42

General Aniline board headed by McConnell. Oil Paint & Drug Rep 141:5+ Mr 23 '42

General Aniline heads suspended by Treasury. Oil Paint & Drug Rep 141:5 Ja 19 '42

Managing directors selected by Secretary Morgenthau. Comm & Fin Chr 155:1120 Mr 16 '42

New board of managing directors. pors Chem & Met Eng 49:117 Ap '42

97% of stock seized by Treasury department. Comm & Fin Chr 155:824 F 24 '42; Same. Oil Paint & Drug Rep 141:4+ F 23 '42

GENERAL baking company

General Baking's showing; earnings 1935-1941. Barron's 21:6 N 24 '41

GENERAL cable corporation

Annual report. Comm & Fin Chr 155:1012 Mr 9 '42

Firms charged with fraud in sale of cable to navy; denials issued. Comm & Fin Chr 156:747-8 Ag 31 '42

Release of plant. Comm & Fin Chr 156:694 Ag 24 '42

GENERAL casualty company of America, Seattle

Company analysis. Spectator (Property ed) 7: 34-5 N 13 '41

GENERAL cigar company

Shares selling below net cash assets. H. Lawrence. Barron's 22:20 F 23 '42

GENERAL electric company

Annual report. Comm & Fin Chr 155:1309 Mr 30 '42

Approach to postwar planning. R. P. Gustin and S. A. Holme. Harvard Business R 20 no4:459-72 [Jl] '42

Billion dollar war program. Comm & Fin Chr 156:1606 N 2 '42

Brazilian electrification. Comm & Fin Chr 155:1510-11 Ap 13 '42

GENERAL electric company—*Continued*

Court approves $1,000,000 offer to Radio holders. Comm & Fin Chr 155:2366 Je 22 '42

Day after tomorrow; interview with C. E. Wilson. A. P. Peck. Sci Am 167:203-4 N '42

Departmental economist; Appliance and merchandise department. L. Schoenfeldt. Harvard Business R 20 no 3:386-8 [Ap] '42

Educational and training program. A. R. Stevenson, jr. M. M. Boring and T. C. Johnson. bibliog Mech Eng 64:217-20 Mr '42

Eleven independent lamp manufacturers to intervene in government anti-trust suit. Comm & Fin Chr 156:1326 O 12 '42

Engineering organization of a large industrial business. R. C. Muir. Elec Eng 61:424-6 Ag '42; Same. Gen Elec R 45:435-7 Ag '42; Discussion. Elec Eng 61:427-8 Ag '42

Firms charged with fraud in sale of cable to navy; denials issued. Comm & Fin Chr 156:747-8 Ag 31 '42

G.E. does it. il Fortune 25:64-9+ Mr '42

General-Electric organization chart. P. L. Alger. Elec Eng 61:427-8 Ag '42

G.E. workers in more than 100 units exceed 10 per cent goal. il Steel 111:64-5 N 2 '42

General Electric's post-war planning. W. M. Timmerman. Refrig Eng 44:162-5+ S '42

General Electric's test men to report early. Blast F & Steel Pl 30:678-9 Je '42

Industry's fascinating problem; General Electric organizes planning committee. S. M. Crocker. Ptr Ink 197:41-2, 44-5, 48 N 28 '41

Prospects for General Electric and Westinghouse. Barron's 22:12 S 7 '42

Reply to statement that shortage of tungsten carbide exists because of patent-pooling agreement between General electric co. and the Krupp armament works. W. G. Robbins. Steel 110:42 Ap 20 '42

Sets up new electronics unit. Elec W News ed 118:1201 O 10 '42

Technical committee system. S. H. Blake. Gen Elec R 45:447-50 Ag '42

War production already greater than for entire World war. Comm & Fin Chr 155:1678 Ap 27 '42

Young and Swope resume posts. Comm & Fin Chr 156:1150 S 28 '42

Research laboratory

Measurements; work of General engineering laboratory. E. S. Lee. Gen Elec R 45:491 S '42

GENERAL electric review (periodical)

New editorial advisory board. pors Gen Elec R 45:245 Ap '42

GENERAL foods corporation

Annual report. Comm & Fin Chr 155:1237, 1309 Mr 26, 30 '42

Behind latest earnings reports. H. Lawrence. Barron's 22:13 N 2 '42

Comparing Standard Brands with General Foods. J. C. Clifford. Mag of Wall St 69:612-14+ Mr 7 '42

Dividends. H. Lawrence. Barron's 22:20 Ap 20 '42

To create note issue up to $10,000,000. Comm & Fin Chr 155:88 Ja 6 '42

GENERAL gas and electric corporation

Asset values. O. Ely. Barron's 22:20 My 25 '42

Plan. O. Ely. Pub Util 30:663-4 N 5 '42

To merge two utilities; moves for distribution of assets. Comm & Fin Chr 156:781 Ag 31 '42

GENERAL mills, incorporated

Earnings record. Barron's 21:6 D 8 '41

Operating income hits new peak. Barron's 22:13 Ag 10 '42

GENERAL motors acceptance corporation

Annual report. Comm & Fin Chr 155:1213 Mr 23 '42

GENERAL motors corporation

Arms maintenance program offered army, navy by GM. il Steel 110:32-3 Mr 23 '42

Arranging $500,000,000 bank credit. Comm & Fin Chr 156:694 Ag 24 '42

Bank stocks; General Motors credit, largest bank loan ever obtained by a private corporation. Comm & Fin Chr 156:1622 N 5 '42

Behind latest earnings reports. H. Lawrence. Barron's 22:13 N 2 '42

Dealer reward; General Motors program. Business Week p79 Mr 14 '42

GM announces war service program. Automotive & Aviation Ind 86:46+ Ap 1 '42

General Motors dramatizes war role of industry. il Factory Management 100:93 S '42

G.M. hits back; public debate on Reuther plan and company's counterdemands on union. Business Week p70+ Ap 4 '42

General Motors medical conference, Pontiac, Michigan, April 24-25. Ind Med 11:245-85 Je '42

Motor cars to munitions. il diags Am Mach 86:573-94 Je 11 '42

1941 annual report. Comm & Fin Chr 155:1309-10 Mr 30 '42

$1,000,000,000 V-loan bank credit, 400 banks participating. Comm & Fin Chr 156:1502 O 26 '42

Panel offers solution to GM case. Automotive & Aviation Ind 87:45+ S 1 '42

Profit outlook. S. H. Brams. il Barron's 22:3 F 16 '42

Quarterly report. Comm & Fin Chr 155:1834-5 My 11 '42

Quarterly report. Comm & Fin Chr 156:1606-7 N 2 '42

Savings of critical materials accomplished; scrap salvage campaign. Comm & Fin Chr 156:1237-8 O 5 '42

Semi-annual statement. Comm & Fin Chr 156:428-9 Ag 3 '42

Stock offered. Comm & Fin Chr 155:156 Ja 10 '42

Suit agreement rejected by court. Comm & Fin Chr 156:1689 N 9 '42

Thumbnail stock appraisal. Mag of Wall St 69:264 D 13 '41

To aid dealers. Comm & Fin Chr 155:1120 Mr 16 '42

White-collar aid; General Motors program to locate new jobs for employees laid off in war conversion. Business Week p78-80 Mr 21 '42

GENERAL public service corporation

To reduce capital, etc. Comm & Fin Chr 155:919 Mr 2 '42

GENERAL railway signal company

Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:594 S 19 '42

GENERAL refractories company

Another look at your company. Mag of Wall St 70:131+ My 16 '42

GENERAL shoe corporation, Nashville, Tennessee

Debentures offered. Comm & Fin Chr 154:1595-6 D 20 '41

GENERAL steel castings corporation

Special situations for income and appreciation. H. F. Travis. Mag of Wall St 71:30-1 O 17 '42

GENERAL theatres equipment, inc.

Stocks with high quick assets and good earnings. F. R. Walters. Mag of Wall St 70:90 My 2 '42

GENERAL tire and rubber company

Annual report. Comm & Fin Chr 155:399 Ja 27 '42

Rubber concerns converted for war. J. A. McWethy. Barron's 22:7 My 11 '42

GENERALS

These generals are the U.S. army high command; portraits. Fortune 24:66 D '41

GENETICS

New paths in genetics. J. B. S. Haldane. 206p $2.50 Harper '42

Rh factor and racial origins. A. S. Wiener. bibliog Science 96:407-8 O 30 '42

See also

Chromosomes

Terminology

Symbols for human genes. R. R. Gates. Science 95:17-18 Ja 2 '42

GENISTEIN

Genistin (an isoflavone glucoside) and its aglucone, genistein, from soybeans. E. D. Walter. bibliog il Am Chem Soc J 63:3273-6 D '41

GENISTIN

Genistin (an isoflavone glucoside) and its aglucone, genistein, from soybeans. E. D. Walter. bibliog il Am Chem Soc J 63:3273-6 D '41

GENITO-urinary organs

Wounds and injuries

Urology; some industrial and compensation aspects. A. J. Greenberger and M. E. Greenberger. Ind Med 11:123-7 Mr '42

GENTIOBIOSE

Synthesis of β-2-chloroethylgentiobioside and β-2-chloroethylprimeveroside acetates. L. P. Miller. bibliog Am Chem Soc J 63:3342-3 D '41

Synthesis of some new glucose and gentiobiose derivatives. D. D. Reynolds and W. O. Kenyon. Am Chem Soc J 64:1110-12 My '42

GEOCHEMISTRY

Bacterial activity and the transformation of marine sedimentary materials; abstract. C. E. Zobell. Oil & Gas J 40:58 Ap 23 '42

Geochemical data on Saratoga mineral waters, applied in deducing a new theory of their origin. L. W. Strock. bibliog diags Am J Sci 239:857-98 D '41

Geochemistry of natural gas in Appalachian province. P. H. Price and A. J. W. Headlee. maps Am Assn Pet Geologists Bul 26:19-35 Ja '42

Geological applications of nuclear physics. C. Goodman. bibliog(52 titles) il diags J Ap Phys 13:276-89 My '42

Origin of underground carbon dioxide. F. E. E. Germann and H. W. Ayres. bibliog diags J Phys Chem 46:61-8 Ja '42

Vapor pressures of aqueous solutions at high temperatures. N. B. Keevil. bibliog Am Chem Soc J 64:841-50 Ap '42

See also

Geology
Geophysics
Rocks
Rocks, Igneous
Sea water
Soil analysis
Soils

GEODESY

Traverse and leveling in north-central Oklahoma. N. E. Wolfard, comp. (Control survey circ. 3) 99p Geological survey, Norman, Okla. '41

See also

Surveying

GEODYNAMICS

See also

Earthquakes

GEOGRAPHICAL distribution of plants. See Botany—Geographical distribution

GEOGRAPHY

Airplane remakes world geography. G. T. Renner. maps Aero Digest 41:107, 109-10+ S '42

Earth and man; a human geography. D. H. Davis. 675p $4.25 Macmillan '42

Elements of geography, physical and cultural. V. C. Finch and G. T. Trewartha. 2d ed 823p $4 McGraw-Hill '42

New world horizons; geography for the air age. C. H. Lawrence, ed. 92p $2.75 Duell, Sloan & Pearce, 270 Madison av, New York '42

Outline of political geography. J. F. Horrabin. 157p bibliog(p155-7) $1.50 Knopf '42

See also

Continents
Physical geography

GEOGRAPHY, Commercial

Ecological crop geography. K. H. W. Klages. 615p $4.50 Macmillan '42

GEOGRAPHY, Economic

Geography and the mining industry; natural features and cultural characteristics that may determine success. L. F. Thomas. il Min & Met 22:579-81 D '41

Mountains of the world, stories and pictures of the great mountain ranges of the world. F. R. Elms. 79p $2 A. Whitman & co, Chicago '41

Our industrial world. J. R. Smith. 5th ed rev 406p, p311-418 $1.88 John C. Winston co, Philadelphia '42

GEOGRAPHY, Physical. See Physical geography

GEOLOGICAL maps

Experiments with lights, shadows, and contours, and the resulting shadowgraphic contour maps. R. F. Imbt. bibliog pls Am Assn Pet Geologists Bul 25:2161-9 D '41

Geological map of the Cardigan quadrangle, New Hampshire. K. Fowler-Billings. fold map Geol Soc Bul 53:177 Ja '42

Trends in ore geology. A. Locke. Min Cong J 28:30-2 Ja '42

GEOLOGICAL research

National research council and co-operation in geological research. W. H. Bucher. bibliog Geol Soc Bul 53:1331-53 S '42

Project grants of the Geological society of America. Science 96:138-9 Ag 7 '42

GEOLOGICAL society of America

Geological society presidential addresses, 1889-1940, names and titles. Geol Soc Bul 53:531-2 Ap '42

Proceedings for 1941. Geol Soc Proc 1941:1-255, pl 1-10 Mr '42

Project grants. Science 96:138-9 Ag 7 '42

GEOLOGICAL time

Geological applications of nuclear physics. C. Goodman. diags J Ap Phys 13:279-81 My '42

Radio-elements in non-equilibrium systems. W. D. Urry. bibliog Am J Sci 240:426-36 Je '42

Time relations in ocean sediments. C. S. Piggot and W. D. Urry. bibliog Geol Soc Bul 53:1187-1210 Ag '42

Wanted, sedimentary galenas; measurement of geologic time. A. C. Lane. Science 94:463 N 14 '41

See also

Correlation (geology)

GEOLOGISTS

Geologist and the state defense guards. W. A. Price. Am Assn Pet Geologists Bul 26:282-4 F '42

Geologist in public works. C. P. Berkey. Geol Soc Bul 53:513-31 Ap '42

Geology in war and peace. C. Croneis. Am Assn Pet Geologists Bul 26:1221-49 Jl '42

Good geologists make good neighbors. W. E. Pratt. Am Assn Pet Geologists Bul 26:1207-13 Jl '42

Mining geologist's service to the mineral industry. R. H. Sales. Min & Met 23:381 Jl '42

GEOLOGISTS, Petroleum

Industry is nearing limit in sacrifices of technical men. F. L. Aurin. Oil & Gas J 41:26 N 5 '42

Directories

American association of petroleum geologists membership list. Am Assn Pet Geologists Bul 26:418-501 Mr '42

GEOLOGY

Abstracts of section E, American association for the advancement of science. Geol Soc Bul 52:1993-2037 pt 2 D '41

Abstracts of the Geological society of America, December meeting, Boston; Cordilleran section meeting at Stanford university in April. Geol Soc Bul 52:1887-1960 pt 2 D '41

Deformation of rock strata by explosions; craters due to fall of giant meteorites and to volcanic explosions. J. D. Boon and C. C. Albritton, jr. bibliog Science 96:402 O 30 '42

Geological extrapolation and pseud-abyssal sediments. W. G. Woolnough. bibliog Am Assn Pet Geologists Bul 26:765-92 My '42

Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; diatomaceae. K. E. Lohman. il U S Geol S Professional Pa 196-B:55-86, pl 11-17; pa 45c Supt. of doc. '41

GEOLOGY—*Continued*

Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; ostracoda. W. L. Tressler. il U S Geol S Professional Pa 196-C:95-104, pl 18-19; pa 15c Supt. of doc. '41

Geology in war and peace. C. Croneis. Am Assn Pet Geologists Bul 26:1221-49 Jl '42

Geomorphology; systematic and regional. O. D. von Engeln. 655p bibliog(p619-27) $4.50 Macmillan '42

Mining geology, 1941. H. Schmitt. Eng & Min J 143:78-80 F '42

Outlines of structural geology. E. S. Hills. 172p $2.25 Nordeman pub. co, New York '40

Principles of structural geology. C. M. Nevin. 3d ed 320p $3.50 Wiley '42

Rôle of geology in the first World war. D. Johnson. 18p Geological soc. of Am, New York '42

Selected papers in geology. B. L. Miller; B. Willard; L. Whitcomb. (Circ. 171) 5p, p267-87, p313-16 bibliog(p286-7) pa 10c Lehigh univ, Bethlehem, Pa. '41

Shiftings of sea floors and coast lines. N. L. Bowen; J. A. Cushman; R. E. Dickerson. 30p pa 50c Univ. of Pennsylvania press, Philadelphia '41

Society of economic geologists; abstracts of papers to be presented at 22d annual meeting in conjunction with the Geological society of America, Boston, Dec. 29-31, 1941. Econ Geol 36:839-48 D '41

Structural geology. M. P. Billings. 473p $4.50 Prentice-Hall '42

See also

Asbestos
Asphalt
Coal—Geology
Concretions
Correlation (geology)
Dikes (geology)
Drift
Earth
Earth temperature
Earthquakes
Erosion
Faults (geology)
Folds (geology)
Gas, Natural—Geology
Geochemistry
Geophysics
Geysers
Glacial geology
Gypsum
Isostasy
Joints (geology)
Landslides
Limestone
Metamorphism
Mines and mineral resources
Mountains
Ore deposits
Paleobotany
Paleoclimatology
Paleontology
Peat
Pebbles
Petroleum—Geology
Phosphate rock
Physical geography
Quarries and quarrying
Rocks
Rocks, Igneous
Sand
Sedimentation and deposition
Soils
Unconformity (geology)
Volcanoes
Water, Underground

Bibliography

Books on geology; reviews of recent texts. K. F. Mather. Science 95:197-8 F 20 '42

Reviews and new publications. Published in monthly numbers of American association of petroleum geologists bulletin

History

American geology, 1850-1900. B. Willis. Science 96:167-72 Ag 21 '42

Study and teaching

Geology in war and peace. C. Croneis. Am Assn Pet Geologists Bul 26:1221-49 Jl '42

See also Association of college geology teachers

Tables, calculations, etc.

Graphic method for some geologic calculations. M. L. Hill. Am Assn Pet Geologists Bul 26:1155-9 Je '42

Alabama

Notes on deposits of Selma and Ripley age in Alabama. W. H. Monroe. 150p bibliog(p130-8) Geological survey of Alabama, University, Ala. '41

Alaska

Geology of the Gerstle River district; with a report on the Black Rapids glacier. F. H. Moffit. map U S Geol S Bul 926-B:107-60, pl 2-11; pa 35c Supt. of doc. '42

Geology of the upper Tetling River district. F. H. Moffit. diag fold map U S Geol S Bul 917-B:115-57, pl 2-7; pa 50c Supt. of doc. '41

Nickel deposits of Bohemia basin and vicinity, Yakobi Island, Alaska. J. C. Reed and J. V. Dorr, 2d. map U S Geol S Bul 931-F:105-38, pl 20-23; pa 70c Supt. of doc. '42

Tertiary deposits of the Eagle-Circle district. J. B. Mertie, jr. pl map U S Geol S Bul 917-D:213-64; pa 15c Supt. of doc. '42

Alberta

Folded thrust faults in the foothills of Alberta. B. F. Hake, R. Willis and C. C. Addison. diags maps Geol Soc Bul 53:291-334 bibliog(p333-4) F '42

Geology of east-central Alberta. G. S. Hume and C. O. Hage. (Geol. survey memoir 232) 101p Canada. Dept. of mines and resources, Ottawa '41

Arizona

Mineralization of the Ajo copper district. J. Gilluly. bibliog diags maps Econ Geol 37:247-309 Je '42

Paleozoic paleogeography of Arizona. A. Stoyanow. map diags Geol Soc Bul 53:1255-82, pl 1-5 bibliog(p 1279-82) S '42

Sedimentation and volcanism in the Hopi Buttes. J. T. Hack. bibliog diags maps Geol Soc Bul 53:335-72, pl 1-5 F '42

Arkansas

Pitkin limestone of northern Arkansas. W. H. Easton. 115p bibliog(p87-9) Arkansas geological survey, Little Rock '42

Schuler field, Union county. W. B. Weeks and C. W. Alexander. bibliog diags maps Am Assn Pet Geologists Bul 26:1467-1516 S '42

Bermuda

Geological history of the Bermudas. H. B. Moore. Science 95:551-2 My 29 '42

Borabora

Geology of Borabora, Society islands. J. T. Stark and A. L. Howland. (Bul. 169) 43p bibliog(p42-3) $1 Bernice P. Bishop museum, Honolulu, Hawaii '41

Boston

Boylston Street fishweir. F. Johnson and others. 212p bibliog(p209-12) pa $2 Robert S. Peabody foundation for archaeology, Phillips academy, Andover, Mass.

Brazil

Drilling shows likely prospects in Brazil. E. De Carvalho. Oil & Gas J 40:154-5 D 25 '41

California

Adventures in scenery, a popular reader of California geology. D. E. Willard. 438p bibliog(p428-32) $3.75 Jaques Cattell press, N. Queen st. & McGovern av, Lancaster, Pa. '42

Crocker Flat landslide area, Temblor range. R. R. Simonson and M. L. Krueger. bibliog il maps Am Assn Pet Geologists Bul 26:1608-31 O '42

Distribution of helium and radioactivity in rocks; radioactivity and petrology of some California intrusives. E. S. Larsen and N. B. Keevil. Am J Sci 240:204-15 Mr '42

Geologic history and correlation of the Jurassic of southwestern Oregon and California. N. L. Taliaferro. maps Geol Soc Bul 53:71-112 bibliog(p110-12) Ja '42

Geology of Del Valle oil field, Los Angeles county. L. A. Tarbet. diags map Am Assn Pet Geologists Bul 26:188-96, pl 1-2 F '42

Geology of the Kettleman Hills oil field, California; stratigraphy, paleontology, and structure. W. P. Woodring, R. Stewart and R. W. Richards. maps U S Geol S Professional Pa 195:1-170, pl 1-57; pa $1.50 Supt. of doc. '40

GEOLOGY—California—*Continued*

Geomorphology of the Ventura region. W. C. Putnam. fold map maps Geol Soc Bul 53:691-754, pl 1-5 bibliog(p752-4) My '42

Progress of stratigraphic studies in California. E. R. Atwill. diags Am Assn Pet Geologists Bul 26:153-61, pl 1-4 F '42

Typical oil-field structures; regular anticlinal fold, Kettleman Hills field. diags map Oil & Gas J 41:50-1 Je 4 '42

Upper cretaceous formations and faunas of southern California. W. P. Popenoe. bibliog diag maps Am Assn Pet Geologists Bul 26:162-87 F '42

Canada

Gold mineralization in minor igneous intrusions. W. W. Moorhouse. bibliog diag map Econ Geol 37:318-29 Je '42

Colombia

Geology of Honda district. J. W. Butler, jr. il diag map Am Assn Pet Geologists Bul 26:793-837 bibliog(p836-7) My '42

Colorado

Alkalic rocks of Iron Hill, Gunnison county. E. S. Larsen. bibliog diags map U S Geol S Professional Pa 197-A:1-64, pl 1-3; pa 40c Supt. of doc. '42

Correlation of the formations of the Laramie range, Hartville uplift, Black Hills, and western Nebraska. G. E. Condra, E. C. Reed and O. J. Scherer. (Geol. survey bul. 13) 52p bibliog(p50-2) Univ. of Nebraska, Conservation and survey division, Lincoln '40

Late paleozoic stratigraphy of Gore area. K. G. Brill, jr. bibliog diags maps Am Assn Pet Geologists Bul 26:1375-97 Ag '42

Possibility of future discoveries in eastern Colorado. F. N. Bosco. diags maps Oil & Gas J 40:66-8 Ap 16 '42

Structure of the upper Laramie River valley, Colorado-Wyoming. R. H. Beckwith. bibliog map fold pl Geol Soc Bul 53:1491-1532 O '42

Connecticut valley

Flow of time in the Connecticut valley; geological imprints. G. W. Bain and H. A. Meyerhoff. 129p $2 The Hampshire bookshop, Northampton, Mass. '42

Costa Rica

Amoura shale, Costa Rica. P. P. Goudkoff and W. W. Porter, 2d. bibliog map Am Assn Pet Geologists Bul 26:1647-55 O '42

Gaspé peninsula

Glaciation of Shickshock mountains. R. F. Flint, M. Demorest and A. L. Washburn. bibliog maps Geol Soc Bul 53:1211-30, pl 1-2 Ag '42

Lower (?) Cambrian fauna from eastern Gaspé, Quebec. C. H. Kindle. Am J Sci 240:633-41, pl 1-2 S '42

Gulf Coast region

Bottom-hole contours show deeper possibilities on Gulf. W. V. Howard. maps Oil & Gas J 41:125-6, 128 Je 25 '42

Hawaiian Islands

Origin of Haleakala crater, Island of Maui, Hawaii. H. T. Stearns. bibliog il Geol Soc Bul 53:1-13, pl 1 Ja '42

Idaho

Control of ore by rock structure in a Coeur d'Alene mine. H. E. McKinstry and R. H. Svendsen. diags maps Econ Geol 37:215-30 My '42

Endomorphism of the Idaho batholith. A. L. Anderson. bibliog map Geol Soc Bul 53:1099-1126, pl 1-3 Ag '42

Geology of dam sites on the upper tributaries of the Columbia river in Idaho and Montana; Katka, tunnel no. 8 and Kootenai Falls dam sites, Kootenai river, Idaho and Montana. C. E. Erdmann. diag U S Geol S Water-supply Pa 866-A:1-36, pl 1-6; pa 25c Supt. of doc. '41

Geology of the Idaho Almaden quicksilver mine near Weiser. A. L. Anderson. (Idaho Bur. mines and geology pamphlet 55) 9 numb l Univ. of Idaho, Moscow '41

Lower eo-triassic stratigraphy, western Wyoming and southeast Idaho. N. D. Newell and B. Kummel. bibliog diags Geol Soc Bul 53:937-95, pl 1-3 Je '42

Illinois

Interbasin Pennsylvanian correlations, Illinois and Iowa. J. M. Weller and others. il Am Assn Pet Geologists Bul 26:1585-93 O '42

Some Silurian correlations in lower Mississippi drainage basin. J. R. Ball. bibliog il map Am Assn Pet Geologists Bul 26:1-18 Ja '42

Surface structure map of Shelby, Effingham and Fayette counties. W. A. Newton. (Report of investigations 76) 21p State geological survey, Urbana '41

Indiana

Devonian formations of Indiana; 1. Outcrop in southern Indiana, by T. A. Dawson; 2. Structural conditions, by J. R. Harris and R. E. Esarey. 2v bibliog(pt2, p32) Indiana Dept. of conservation, Division of geology, Indianapolis '40-'41

Middle Devonian stratigraphy of Indiana. G. Campbell. bibliog map Geol Soc Bul 53:1055-71 Jl '42

Iowa

Interbasin Pennsylvanian correlations, Illinois and Iowa. J. M. Weller and others. il Am Assn Pet Geologists Bul 26:1585-93 O '42

Kansas

Geologic studies in southwestern Kansas. H. T. U. Smith. 212p bibliog(p203-8) Kansas. Geological survey, Univ. of Kansas, Lawrence '40

Geology of Riley and Geary counties. J. M. Jewett. 164p bibliog(p116-18) Kansas. Geological survey, Univ. of Kansas, Lawrence '41

1941 reports of studies. Kansas. 431p Geological survey, Univ. of Kansas, Lawrence '41

Typical oil-field structures; unconformities; Zenith, Wherry and Hollow-Nikkel fields, Kansas. diags maps Oil & Gas J 41:64b-64c O 1 '42

Kentucky

Geology of the Big Clifty quadrangle. R. E. Stouder. (Series 8, bul. 7) 72p Kentucky dept. of mines and minerals, Geological division, Lexington '41

Post-Appalachian faulting in western Kentucky. R. Rhoades and A. J. Mistler. bibliog map Am Assn Pet Geologists Bul 25:2046-56 N '41

Louisiana

Geology of Vernon parish. R. N. Welch. (Geological bul. 22) 90p bibliog(p83-6) Louisiana geological survey, Dept. of conservation, Baton Rouge '42

Late paleozoic age of Morehouse formation of northeastern Louisiana. R. W. Imlay and J. S. Williams. Am Assn Pet Geologists Bul 26:1672-3 O '42

Typical oil-field structures; complexly faulted dome, Eola field, Avoyelles parish. diag maps Oil & Gas J 41:50-1 My 21 '42

Maine

Genesis of some ore deposits of southeastern Maine. C. Li. maps Geol Soc Bul 53:15-51 bibliog(p46-7) pl 1-5 Ja '42

Manitoba

Geology and metamorphism in the McVeigh Lake area, northern Manitoba. J. D. Bateman. bibliog diag Am J Sci 240:789-808 N '42

Maryland

Geology of the Martic overthrust and the Glenarm series in Pennsylvania and Maryland. E. Cloos and A. Hietanen. il diags maps Geol Soc Special Pa no 35:1-207, pl 1-28 bibliog (p195-200) '41

GEOLOGY—Maryland—*Continued*

Pseudomigmatite in the piedmont of Maryland. R. W. Chapman. bibliog diags Geol Soc Bul 53:1299-1330, pl 1-6 S '42

Massachusetts

Geology of the coast of northeastern Massachusetts. N. E. Chute and R. L. Nichols. (U.S. Geological survey. Cooperative geologic project, Bul. 7) 48p bibliog(p25-6, 45-6) Massachusetts Dept. of public works, Boston '41

Late pleistocene and recent deposits in the Connecticut valley. R. H. Jahns and M. E. Willard. bibliog pls diags maps Am J Sci 240:161-91, 265-87 Mr-Ap '42

Pleistocene geology of western Cape Cod. K. F. Mather, R. P. Goldthwait and L. R. Thiesmeyer. bibliog maps Geol Soc Bul 53:1127-74, pl 1-7 Ag '42

Middle western states

Wind-worn stones in glacial deposits of the Middle west. L. R. Thiesmeyer. bibliog Science 96:242-4 S 11 '42

Minnesota

Concretions of the Thomson formation, Minnesota. G. M. Schwartz. Am J Sci 240:491-9, pl 1 Jl '42

Correlation and metamorphism of the Thomson formation. G. M. Schwartz. bibliog map Geol Soc Bul 53:1001-20, pl 1-4 Jl '42

Paleozoic and related rocks of southeastern Minnesota. C. R. Stauffer and G. A. Thiel. 261p $4 Univ. of Minnesota press, Minneapolis '41

Structures in the Thomson formation. G. M. Schwartz. bibliog il diags Econ Geol 37:39-63 Ja '42

Mississippi

Adams County mineral resources; Geology, by F. E. Vestal; Tests, by T. E. McCutcheon. (Bul. 47) 200p bibliog(p141-2) State geological survey, University, Miss. '42

Union County mineral resources. L. C. Conant; T. E. McCutcheon. 158p bibliog(p98-100) State geological survey, University, Miss. '42

Missouri

Nebraskan-Kansan drift boundary in Missouri. C. D. Holmes. bibliog maps Geol Soc Bul 53:1479-89 O '42

Some Silurian correlations in lower Mississippi drainage basin. J. R. Ball. bibliog il map Am Assn Pet Geologists Bul 26:1-18 Ja '42

Montana

Geology and dam sites on the upper tributaries of the Columbia river in Idaho and Montana; Katka, tunnel no. 8 and Kootenai Falls dam sites, Kootenai river, Idaho and Montana. C. E. Erdmann. diag U S Geol S Water-supply Pa 866-A:1-36, pl 1-6; pa 25c Supt. of doc. '41

Geology and ore deposits of the Dillon nickel prospect, southwestern Montana. H. Sinkler. il map Econ Geol 37:136-52 Mr '42

Igneous rocks of the Highwood mountains. E. S. Larsen and others. bibliog 2pls diag Geol Soc Bul 52:1829-68 D '41

Origin and structure of the Livingston igneous rocks, Montana. W. H. Parsons. bibliog maps Geol Soc Bul 53:1175-85 Ag '42

Snake Butte boulder train and related glacial phenomena, north-central Montana. M. M. Knechtel. bibliog maps Geol Soc Bul 53:917-35, pl 1-3 Je '42

Stratigraphy and insoluble residues of Madison group (Mississippian) of Montana. L. L. Sloss and R. H. Hamblin. bibliog il pls diags map Am Assn Pet Geologists Bul 26:305-35 Mr '42

Typical oil-field structures; sedimentation trap; Cut Bank, Montana. diag maps Oil & Gas J 41:34-5 N 5 '42

See also

Water, Underground
—Montana

Nebraska

Correlation of the formations of the Laramie range, Hartville uplift, Black Hills, and western Nebraska. G. E. Condra, E. C. Reed and O. J. Scherer. (Geol. survey bul. 13) 52p bibliog(p50-2) Univ. of Nebraska, Conservation and survey division, Lincoln '40

Thickness and structural study of major divisions of cretaceous system in Nebraska. P. Fuenning. bibliog maps Am Assn Pet Geologists Bul 26:1517-36 S '42

Nevada

Stratigraphy and structure of the southern Ruby mountains. R. P. Sharp. fold chart maps Geol Soc Bul 53:647-90, pl 1-5 bibliog(p688-90) My '42

New England

New England field geologists; 37th annual field meeting, Northampton, Mass. Oct. 10-12. L. W. Fisher. Science 95:21-2 Ja 2 '42

New Hampshire

Geological map of the Cardigan quadrangle. K. Fowler-Billings. fold map Geol Soc Bul 53:177 Ja '42

Geology of the Winnipesaukee quadrangle. A. W. Quinn. 22p bibliog(p21) 50c State planning and development commission, Concord, N.H. '41

Intrusive domes of the Claremont-Newport area. C. A. Chapman. bibliog diags map Geol Soc Bul 53:889-915, pl 1 Je '42

Ring structures of the Pliny region. R. W. Chapman. bibliog map Geol Soc Bul 53:1533-67, pl 1-2 O '42

Stratigraphy, structure, and petrology of the Mt Cube area, New Hampshire. J. B. Hadley. bibliog diags maps Geol Soc Bul 53:113-76, pl 1-4 Ja '42

New Jersey

Geophysical methods of exploration and their application to geological problems in New Jersey. G. P. Woollard. 89p bibliog(p89) Dept. of conservation and development, Trenton, N.J. '41

Stratigraphy, fauna and correlation of the Vincentown formation. K. F. Greacen. 83p bibliog(p78-83) Dept. of conservation and development, Trenton, N.J. '41

New Mexico

Archeological and geological investigations in the San Jon district, eastern New Mexico. F. H. H. Roberts, jr. il map Smithsonian Misc Coll v103, no4:1-30, pl 1-9 bibliog(p28-30) '42

Basal beds of Salado formation in Fletcher potash core test, near Carlsbad, New Mexico. W. B. Lang. Am Assn Pet Geologists Bul 26:63-79, pl 1-11 Ja '42

Lateral gradation in the Seven Rivers formation, Rocky Arroyo, Eddy county, New Mexico. R. L. Bates. bibliog il maps Am Assn Pet Geologists Bul 26:80-99 Ja '42

Mississippian formations of Sacramento mountains. L. R. Laudon and A. L. Bowsher. il diags maps Am Assn Pet Geologists Bul 25:2107-60 bibliog(p2158-60) D '41

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26:535-763 Ap '42

Résumé of geology of the South Permian basin, Texas and New Mexico. R. E. King and others. 2 fold maps Geol Soc Bul 53:539-60 bibliog(p558-60) Ap '42

Transgressive and regressive cretaceous deposits in southern San Juan basin, New Mexico. J. D. Sears, C. B. Hunt and T. A. Hendricks. diags map U S Geol S Professional Pa 193-F:101-21, pl 25-31; pa 25c Supt. of doc. '41

New York (state)

Interglacial consequent valleys of central New York. J. S. Wold. bibliog il Am J Sci 240:617-26, pl 1 S '42

GEOLOGY—New York (state)—*Continued*

Paleontology and geology. R. Ruedemann; B. F. Howell. (New York state museum bul. 327) 98p Univ. of the state of New York, Albany '42

Phase petrology in the Cortlandt complex, New York. S. J. Shand. bibliog map Geol Soc Bul 53:409-28, pl 1-2 Mr '42

Regional systematic jointing in slightly deformed sedimentary rocks. J. M. Parker, 3d. bibliog maps Geol Soc Bul 53:381-408, pl 1-4 Mr '42

Restudy of the Schoharie and Esopus formations in New York state. W. Goldring and R. H. Flower. bibliog Am J Sci 240:673-94 O '42

Newfoundland

Geology and mineral deposits of the Fleur-de-Lys area. J. O. Fuller. 41p bibliog(p31-2) Newfoundland geological survey, St John's, Newfoundland '41

North Dakota

Geology of the Heart Butte quadrangle. E. E. Tisdale. (Geological survey bul. 13) 32p bibliog(p31-2) Univ. of North Dakota press, Grand Forks '41

Regional geology of Dakota basin. N. Ballard. maps Am Assn Pet Geologists Bul 26:1557-84 O '42

Selected deep well records. W. M. Laird, comp. (Geological survey bul. 12) 31p Univ. of North Dakota press, Grand Forks '41

Stratigraphy of North Dakota. V. H. Kline. bibliog diags maps Am Assn Pet Geologists Bul 26:336-79 Mr '42; Discussion. 26:1414-23 Ag '42

Ohio

Age and fossils of the Olentangy shale of central Ohio. R. C. Baker. Am J Sci 240: 137-43, pl 1-3 F '42

Geology of the Cleveland region. A. B. Williams. (Pocket natural history 9, Geological ser. 1) 61p bibliog(p57-8) pa 50c Cleveland museum of natural history, Cleveland '40

Gravel outwash near Chillicothe. F. Leverett. Science 95:528 My 22 '42

Tilted postglacial lake beds in Ohio. G. D. Hubbard and R. C. Rockwood. bibliog maps Geol Soc Bul 53:227-66, pl 1-2 F '42

Oklahoma

Subsurface geology and oil and gas resources of Osage county; parts of township 20 north, ranges 9 and 10 east, and township 21 north, ranges 8 and 9 east, and all of township 21 north, range 10 east. C. T. Kirk and others. U S Geol S Bul 900-H:269-302; pa 35c Supt. of doc. '41

Subsurface geology and oil and gas resources of Osage county; townships 20 and 21 north, ranges 11 and 12 east. W. R. Dillard, N. W. Bass and C. T. Kirk. fold map U S Geol S Bul 900-G:237-68, pl 7; pa 30c Supt. of doc. '41

Subsurface geology and oil and gas resources of Osage county; townships 23 and 24 north, range 7 east. N. W. Bass and others. fold map U S Geol S Bul 900-I:303-19, pl 9; pa 25c Supt. of doc. '41

Typical oil-field structures; buried sand bar, Burbank field, Osage county. maps Oil & Gas J 41:54-5 Ag 20 '42

Typical oil-field structures; truncated faulted anticline, Oklahoma City field. diag maps Oil & Gas J 40:56B-56C My 7 '42

See also
Water, Underground
—Oklahoma

Ontario

Alkaline and carbonate intrusives near Bancroft, Ontario. F. Chayes. diag map Geol Soc Bul 53:449-511, pl 1-5 bibliog(p510-11) Mr '42

Geology and paragenesis of the nickel ores of the Cuniptau mine, Goward Nipissing district. B. T. Sandefur. il Econ Geol 37:173-87 My '42

In the Steeprock area; résumé of geological work and iron ore exploration. E. R. Rose. bibliog Can Min J 63:292-5 My '42

Ottawa-Bonnechere graben and Lake Ontario homocline. G. M. Kay. diags maps Geol Soc Bul 53:585-646 bibliog(p644-6) pl 1-7 Ap '42

Timagami map area. W. W. Moorhouse. map Can Min J 63:236-9 Ap '42

Trans-Canada highway between Longlac and Hearst; preliminary report on geology. E. L. Evans. maps Can Min J 63:27-8 Ja '42

Oregon

Geologic history and correlation of the Jurassic of southwestern Oregon and California. N. L. Taliaferro. maps Geol Soc Bul 53:71-112 bibliog(p110-12) Ja '42

Geologic history of the Portland area. R. C. Treasher. (GMI short paper 7) 17p bibliog(p16-17) State dept. of geology and mineral industries, Portland Ore. '42

Pennsylvania

Geology of the Martic overthrust and the Glenarm series in Pennsylvania and Maryland. E. Cloos and A. Hietanen. il diags maps Geol Soc Special Pa no 35:1-207, pl 1-28 bibliog(p195-200) '41

Spitzenberg conglomerate as a triassic outlier in Pennsylvania. L. Whitcomb. bibliog map Geol Soc Bul 53:755-64, pl 1-2 My '42

Quebec

Cléricy and La Pause map-areas. J. W. Ambrose. (Geol. survey memoir 233) 86p bibliog(p2-3) pa 25c Canada. Dept. of mines and resources, Ottawa '41

Exploration possibilities in the Cadillac-Malartic district. G. F. Flaherty. maps Can Min J 63:283-9 My '42

Noranda district. M. E. Wilson. (Memoir 229) 162p Canada. Geological survey, Ottawa '41

Structural features of the Keewatin volcanic rocks of western Quebec. M. E. Wilson. bibliog diags map Geol Soc Bul 53:53-69, pl 1-5 Ja '42

See also
Geology—Gaspé peninsula

Rocky Mountain region

Structure of the upper Laramie River valley, Colorado-Wyoming. R. H. Beckwith. bibliog map fold pl Geol Soc Bul 53:1491-1532 O '42

Russia

Artinskian series. C. O. Dunbar. bibliog diags map Am Assn Pet Geologists Bul 26:402-9 Mr '42

South Dakota

Amphibolites of the lead area, northern Black Hills. T. A. Dodge. bibliog maps Geol Soc Bul 53:561-83, pl 1-5 Ap '42

Correlation of the formations of the Laramie range, Hartville uplift, Black Hills, and western Nebraska. G. E. Condra, E. C. Reed and O. J. Scherer. (Geol. survey bul. 13) 52p bibliog(p50-2) Univ. of Nebraska. Conservation and survey division, Lincoln '40

Regional geology of Dakota basin. N. Ballard. maps Am Assn Pet Geologists Bul 26:1557-84 O '42

Viola well core from South Dakota. C. E. Decker. il Am Assn Pet Geologists Bul 26: 123-6 Ja '42

Spitsbergen

Some types of polygonal surface markings in Spitsbergen. O. Gatty, W. L. S. Fleming and J. M. Edmonds. bibliog Am J Sci 240:81-92 F '42

Tennessee

Some Silurian correlations in lower Mississippi drainage basin. J. R. Ball. bibliog il map Am Assn Pet Geologists Bul 26:1-18 Ja '42

GEOLOGY—*Continued*

Texas

Correlation of the outcropping cretaceous formations of the Atlantic and Gulf Coastal plain and trans-Pecos Texas. L. W. Stephenson and others. Geol Soc Bul 53:435-48, pl 1 bibliog(p444-7) Mr '42

McKee and Waddell sands, Simpson group, west Texas. T. Cole, C. D. Cordry and H. A. Hemphill. diags Am Assn Pet Geologists Bul 26:279-82 F '42

Oligocene stratigraphy of East White Point field, San Patricio and Nueces counties. P. F. Martyn and C. H. Sample. bibliog diags maps Am Assn Pet Geologists Bul 25:1967-2009 N '41

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26:535-763 Ap '42

Pre-cretaceous topography of western Edwards plateau. E. H. Jager. bibliog map Am Assn Pet Geologists Bul 26:380-6 Mr '42

Résumé of geology of the South Permian basin, Texas and New Mexico. R. E. King and others. 2 fold maps Geol Soc Bul 53:539-60 bibliog(p558-60) Ap '42

Source of beach and river sands on Gulf coast of Texas. F. M. Bullard. bibliog maps Geol Soc Bul 53:1021-43, pl 1-3 Jl '42

Stratigraphy of eocene between Laredo and Rio Grande City, Texas. J. M. Patterson. diags map Am Assn Pet Geologists Bul 26:256-74 F '42

Subsurface geology of Sewell-Eddleman area, Young county, Texas. P. L. Applin and R. F. Imbt. pls diags Am Assn Pet Geologists Bul 26:204-16 F '42

Subsurface study of Ellenburger formation in west Texas. T. Cole. bibliog diags maps Am Assn Pet Geologists Bul 26:1398-1409 Ag '42

Typical oil-field structures; fault line, Luling and Powell fields. diags maps Oil & Gas J 41:32b-32c S 17 '42

Typical oil-field structures; truncated shore line, east Texas field. diags map Oil & Gas J 41:48B-48C O 15 '42

Upper Pennsylvanian anhydrite, west Texas. R. Roth. Am Assn Pet Geologists Bul 26:1412-13 Ag '42

See also
Petroleum—Texas
Water, Underground
—Texas

United States

Proceedings of the Geological society of America for 1941. Geol Soc Proc 1941:1-255, pl 1-10 Mr '42

Utah

Geology and mineral resources of the Randolph quadrangle, Utah-Wyoming. G. B. Richardson. map U S Geol S Bul 923:1-54, pl 1-8; pa 55c Supt. of doc. '41

Mineralization in the West Tintic mining district. B. F. Stringham. bibliog diags maps Geol Soc Bul 53:267-90, pl 1-2 F '42

Study of the geology and ore deposits of the Ashbrook silver mining district. V. E. Peterson. bibliog il diags maps Econ Geol 37:466-502 S '42

Vancouver island

Supplementary report on Bedwell River area. H. Sargent. 97p British Columbia, Dept. of mines, Victoria '41

Venezuela

Geology of southeastern Venezuela. V. M. López, E. Mencher and J. H. Brineman, jr. bibliog diags Geol Soc Bul 53:849-72, pl 1-2 Je '42

Ortiz sandstone and Guarumen sandstone group of north-central Venezuela. M. Kamen-Kaye. maps Am Assn Pet Geologists Bul 26:126-32 Ja '42

Virginia

Occurrence and origin of the titanium deposits of Nelson and Amherst counties, Virginia. C. S. Ross. map U S Geol S Professional Pa 198:1-59, pl 1-19; pa 25c Supt. of doc. '41

Washington (state)

Nickel-gold deposit near Mount Vernon, Skagit county, Washington. S. W. Hobbs and W. T. Pecora. il fold maps U S Geol S Bul 931-D:57-78; pa 15c Supt. of doc. '41

West Virginia

Primary limestone structures of West Virginia. P. H. Price and J. B. Lucke. bibliog map Am J Sci 240:601-16, pl 1 S '42

Typical oil-field structures monocline; Cabin Creek field, Kanawha county. diags maps Oil & Gas J 41:32b-32c S 3 '42

Western states

Deserts. E. C. Alford. 52p $1.25 Eugene Clair Alford, Dayton, Ore. '41

Some concepts on the geology of quicksilver deposits in the United States. C. P. Ross. map bibliog(40 titles) Econ Geol 37:439-65 S '42

Wyoming

Correlation of the formation of the Laramie range, Hartville uplift, Black Hills, and western Nebraska. G. E. Condra, E. C. Reed and O. J. Scherer. (Geol. survey bul. 13) 52p bibliog(p50-2) Univ. of Nebraska, Conservation and survey division, Lincoln '40

Geology and mineral resources of the Randolph quadrangle, Utah-Wyoming. G. B. Richardson. map U S Geol S Bul 923:1-54, pl 1-8; pa 55c Supt. of doc. '41

Geology and oil and coal resources of the region south of Cody Park county. W. G. Pierce and D. A. Andrews. diags map U S Geol S Bul 921-B:99-180, pl 11-24; pa $1 Supt. of doc. '41

Heart Mountain and South Fork thrusts, Park county. W. G. Pierce. bibliog pls diags maps Am Assn Pet Geologists Bul 25:2021-45 N '41

Lower eo-triassic stratigraphy, western Wyoming and southeast Idaho. N. D. Newell and B. Kummel. bibliog diags Geol Soc Bul 53:937-95, pl 1-3 Je '42

Pre-Cambrian metasediments in Grand Teton national park. L. Horberg and F. Fryxell. maps Am J Sci 240:385-93, pl 1-2 Je '42

Structure of the upper Laramie River valley, Colorado-Wyoming. R. H. Beckwith. bibliog map fold pl Geol Soc Bul 53:1491-1532 O '42

GEOLOGY, Military

Military geology from the air; interpretation and mapping of geological information of military value revealed on aerial photographs. J. L. Rich. Science 95:543-5 My 29 '42

Bibliography

Bibliography of military geology and geography. 18p Geological soc. of Am, New York '41

GEOLOGY, Stratigraphic

Criteria for subsurface recognition of unconformities. W. C. Krumbein. Am Assn Pet Geologists Bul 26:36-62 Ja '42

Errors in measuring stratigraphic thickness. M. H. Secrist. Am J Sci 240:627-32 S '42

Introduction to historical geology, with special reference to North America. W. J. Miller. 5th ed 499p bibliog(p476-7) $3.50 Van Nostrand '42

Progress of stratigraphic studies in California. E. R. Atwill. diags Am Assn Pet Geologists Bul 26:153-61, pl 1-4 F '42

Résumé of geology of the South Permian basin, Texas and New Mexico. R. E. King and others. 2 fold maps Geol Soc Bul 53:539-60 bibliog(p558-60) Ap '42

Stratigraphy, fauna and correlation of the Vincentown formation. K. F. Greacen. 83p bibliog(p78-83) Dept. of conservation and development, Trenton, N.J. '41

GEOLOGY, Stratigraphic—*Continued*

Stratigraphy of North Dakota. V. H. Kline. bibliog diags maps Am Assn Pet Geologists Bul 26:336-79 Mr '42; Discussion. 26:1414-23 Ag '42

See also

Correlation (geology)
Glacial geology
Paleobotany
Paleontology

Nomenclature

Technique of stratigraphic nomenclature. C. W. Tomlinson. bibliog Am Assn Pet Geologists Bul 24:2038-46 N '40; Discussion. 25: 2195-211 D '41

Cambrian

Cambrian-Ordovician boundary in the Adirondack-Border region. R. R. Wheeler. bibliog Am J Sci 240:518-24 Jl '42

Carboniferous

Mississippian formations of Sacramento mountains, New Mexico. L. R. Laudon and A. L. Bowsher. il diags maps Am Assn Pet Geologists Bul 25:2107-60 bibliog(p2158-60) D '41

Cenozoic

Geologic studies in southwestern Kansas. H. T. U. Smith. 212p bibliog(p203-8) Kansas. Geological survey, Univ. of Kansas, Lawrence '40

Cretaceous

Correlation of the outcropping cretaceous formations of the Atlantic and Gulf Coastal plain and trans-Pecos Texas. L. W. Stephenson and others. Geol Soc Bul 53:435-48, pl 1 bibliog(p444-7) Mr '42

Cretaceous formations of the South and Southwest. L. W. Stephenson and others. map Oil & Gas J 40:86-7 Ap 23 '42

Economic possibilities of the Pierre shale. J. P. Gries. (State geological and natural history survey. Report of investigations 43) 79p Univ. of South Dakota, Vermillion, S.D. '42

Folded thrust faults in the foothills of Alberta. B. F. Hake, R. Willis and C. C. Addison. diags maps Geol Soc Bul 53:291-334 bibliog(p333-4) F '42

Notes on deposits of Selma and Ripley age in Alabama. W. H. Monroe. 150p bibliog(p130-8) Geological survey of Alabama, University, Ala. '41

Pre-cretaceous topography of western Edwards plateau, Texas. E. H. Jager. bibliog map Am Assn Pet Geologists Bul 26: 380-6 Mr '42

Thickness and structural study of major divisions of cretaceous system in Nebraska. P. Fuenning. bibliog maps Am Assn Pet Geologists Bul 26:1517-36 S '42

Transgressive and regressive cretaceous deposits in southern San Juan basin, New Mexico. J. D. Sears, C. B. Hunt and T. A. Hendricks. diags map U S Geol S Professional Pa 193-F:101-21, pl 25-31; pa 35c Supt. of doc. '41

Upper cretaceous formations and faunas of southern California. W. P. Popenoe. bibliog diag maps Am Assn Pet Geologists Bul 26:162-87 F '42

Devonian

Age and fossils of the Olentangy shale of central Ohio. R. C. Baker. Am J Sci 240: 137-43, pl 1-3 F '42

Devonian formations of Indiana; 1. Outcrop in southern Indiana, by T. A. Dawson; 2. Structural conditions, by J. R. Harris and R. E. Esarey. 2v bibliog(pt2, p32) Indiana Dept. of conservation, Division of geology, Indianapolis '40-'41

Middle Devonian stratigraphy of Indiana. G. Campbell. bibliog map Geol Soc Bul 53: 1055-71 Jl '42

New Devonian (Hamilton) correlations. G. A. Cooper and A. S. Warthin. diags map Geol Soc Bul 53:873-88 bibliog(p887-8) Je '42

Restudy of the Schoharie and Esopus formations in New York state. W. Goldring and R. H. Flower. bibliog Am J Sci 240:673-94 O '42

Eocene

Stratigraphy of eocene between Laredo and Rio Grande City, Texas. J. M. Patterson. diags map Am Assn Pet Geologists Bul 26:256-74 F '42

Jurassic

Geologic history and correlation of the Jurassic of southwestern Oregon and California. N. L. Taliaferro. maps Geol Soc Bul 53:71-112 bibliog(p110-12) Ja '42

Late Jurassic fossils from Cuba and their economic significance. R. W. Imlay. maps Geol Soc Bul 53:1417-77, pl 1-12 bibliog (p 1461-4) O '42

Miocene

Crocker Flat landslide area, Temblor range, California. R. R. Simonson and M. L. Krueger. bibliog il maps Am Assn Pet Geologists Bul 26:1608-31 O '42

Oligocene

Oligocene stratigraphy of East White Point field, San Patricio and Nueces counties, Texas. P. F. Martyn and C. H. Sample. bibliog diags maps Am Assn Pet Geologists Bul 25:1967-2009 N '41

Ordovician

Cambrian-Ordovician boundary in the Adirondack-Border region. R. R. Wheeler. bibliog Am J Sci 240:518-24 Jl '42

Paleozoic

Late paleozoic age of Morehouse formation of northeastern Louisiana. R. W. Imlay and J. S. Williams. Am Assn Pet Geologists Bul 26:1672-3 O '42

Late paleozoic stratigraphy of Gore area, Colorado. K. G. Brill, jr. bibliog diags maps Am Assn Pet Geologists Bul 26:1375-97 Ag '42

Paleozoic and related rocks of southeastern Minnesota. C. R. Stauffer and G. A. Thiel. 261p $4 Univ. of Minnesota press, Minneapolis '41

Paleozoic paleogeography of Arizona. A. Stoyanow. map diags Geol Soc Bul 53: 1255-82, pl 1-5 bibliog(p 1279-82) S '42

Stratigraphy and structure of the southern Ruby mountains, Nevada. R. P. Sharp. fold chart maps Geol Soc Bul 53:647-90, pl 1-5 bibliog(p688-90) My '42

Pennsylvanian

Interbasin Pennsylvanian correlations, Illinois and Iowa. J. M. Weller and others. il Am Assn Pet Geologists Bul 26:1585-93 O '42

Permian

Artinskian series. C. O. Dunbar. bibliog diags map Am Assn Pet Geologists Bul 26: 402-9 Mr '42

Basal beds of Salado formation in Fletcher potash core test, near Carlsbad, New Mexico. W. B. Lang. Am Assn Pet Geologists Bul 26:63-79, pl 1-11 Ja '42

Lateral gradation in the Seven Rivers formation, Rocky Arroyo, Eddy county, New Mexico. R. L. Bates. bibliog il maps Am Assn Pet Geologists Bul 26:80-99 Ja '42

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26: 535-763 Ap '42

Résumé of geology of the South Permian basin, Texas and New Mexico. R. E. King and others. 2 fold maps Geol Soc Bul 53:539-60 bibliog(p558-60) Ap '42

Rhythm of Permian seas; a paleogeographic study. J. M. Hills. bibliog pls diags Am Assn Pet Geologists Bul 26:217-55 F '42

GEOLOGY, Stratigraphic—*Continued*

Pleistocene

Late pleistocene and recent deposits in the Connecticut valley, Massachusetts. R. H. Jahns and M. E. Willard. bibliog pls diags maps Am J Sci 240:161-91, 265-87 Mr-Ap '42

Pleistocene geology of western Cape Cod, Massachusetts. K. F. Mather, R. P. Goldthwait and L. R. Thiesmeyer. bibliog maps Geol Soc Bul 53:1127-74, pl 1-7 Ag '42

Pliocene

Sedimentation and volcanism in the Hopi Buttes, Arizona. J. T. Hack. bibliog diags maps Geol Soc Bul 53:335-72, pl 1-5 F '42

Pre-Cambrian

Concretions of the Thomson formation, Minnesota. G. M. Schwartz. Am J Sci 240:491-9, pl 1 Jl '42

Geology and metamorphism in the McVeigh Lake area, northern Manitoba. J. D. Bateman. bibliog diag Am J Sci 240:789-808 N '42

Pre-Cambrian metasediments in Grand Teton national park, Wyoming. L. Horberg and F. Fryxell. maps Am J Sci 240:385-93, pl 1-2 Je '42

Structure of the upper Laramie River valley, Colorado-Wyoming. R. H. Beckwith. bibliog map fold pl Geol Soc Bul 53:1491-1532 O '42

Silurian

Correlation of the Silurian formations of North America. C. K. Swartz and others. bibliog fold chart Geol Soc Bul 53:533-8 Ap '42

Silurian system of West Virginia. H. P. Woodward. 326p bibliog(p273-87) West Virginia. Geological survey, Charleston '41

Some Silurian correlations in lower Mississippi drainage basin. J. R. Ball. bibliog il map Am Assn Pet Geologists Bul 26:1-18 Ja '42

Tertiary

Geology of Honda district, Colombia. J. W. Butler, jr. il diag map Am Assn Pet Geologists Bul 26:793-837 bibliog(p836-7) My '42

Heart Mountain and South Fork thrusts, Park county, Wyoming. W. G. Pierce. bibliog pls diags maps Am Assn Pet Geologists Bul 25:2021-45 N '41

Stratigraphic and paleontologic studies of wells in Florida. W. S. Cole. 91p Dept. of conservation, State geological survey, Tallahassee, Fla. '41

Tertiary deposits of the Eagle-Circle district, Alaska. J. B. Mertie, jr. pl map U S Geol S Bul 917-D:213-64; pa 15c Supt. of doc. '42

Tertiary limestones of Pulaski and Saline counties, Arkansas. M. W. Corbin and G. R. Heyl. 28 numb l Arkansas geological survey, Little Rock '41

Triassic

Lower eo-triassic stratigraphy, western Wyoming and southeast Idaho. N. D. Newell and B. Kummel. bibliog diags Geol Soc Bul 53:937-95, pl 1-3 Je '42

Spitzenberg conglomerate as a triassic outlier in Pennsylvania. L. Whitcomb. bibliog map Geol Soc Bul 53:755-64, pl 1-2 My '42

GEOMAGNETISM. See Magnetism, Terrestrial

GEOMETRY

Thinking through geometry; a guide to the art of rigorous reasoning. J. H. Blackhurst and C. V. Brannan. 2bks 250p Blackhurst book sales, 1066 U. P. station, Des Moines, Iowa '42

History

Development of informal geometry. R. Coleman, jr. 178p bibliog(p169-78) $2.10 Teachers college '42

GEOMETRY, Analytic

Analytic geometry. C. H. Lehmann. 425p $3.75 Wiley '42

Analytical geometry and calculus. H. B. Phillips. 457p $5 Lew A. Cummings co, Kendall bldg, Cambridge, Mass. '42

Essentials of analytic geometry. H. P. Pettit and P. Luteyn. 208p $2.20 Dryden press, New York '42

GEOMETRY, Differential

Projective

Treatise on projective differential geometry. E. P. Lane. 466p bibliog(p453-61) $6 Univ. of Chicago press '42

GEOMETRY, Plane

Laboratory geometry. E. Roudebush. 192p pa $1.12 Prentice-Hall '42

Plane geometry. F. E. Seymour and P. J. Smith. 467p $1.60 Macmillan '41

GEOMETRY, Solid

Algebraic solid geometry. S. L. Green. 132p $1.75 Macmillan '42

Plane trigonometry, solid geometry and spherical trigonometry. W. W. Hart and W. L. Hart. 124p $2.60 Heath '42

Solid geometry and mensuration. D. T. Sigley and W. T. Stratton. 163p $1.60 Dryden press, 103 Park av, New York '42

GEOMORPHOLOGY. See Physical geography

GEOPHYSICISTS

How can geophysicists best serve? H. B. Peacock. Am Assn Pet Geologists Bul 26:1200-6 Jl '42

GEOPHYSICS

Detection deep down; geophysicist identifies inaccessible crustal rocks by applying analytical methods to laboratory data. M. B. Dobrin. il Tech R 44:319-21+ My '42

Elasticity of glass at high temperatures, and the vitreous basaltic substratum. F. Birch and D. Bancroft. bibliog Am J Sci 240:457-90 Jl '42

Geological applications of nuclear physics. C. Goodman. bibliog(52 titles) il diags J Ap Phys 13:276-89 My '42

Geophysical methods of exploration and their application to geological problems in New Jersey. G. P. Woollard. 89p bibliog(p89) Dept. of conservation and development, Trenton, N.J. '41

Historical note on the deflecting influence of the rotation of the earth. E. W. Woolard. bibliog Franklin Inst J 233:465-70 My '42

Physics of the earth; v. 9, Hydrology. O. E. Meinzer, ed. 712p $7.50 McGraw-Hill '42

See also

Earth pressure
Earth temperature
Earthquakes
Magnetism, Terrestrial
Meteorology
Prospecting—Geophysical methods
Sedimentation and deposition

Bibliography

Geophysical abstracts 102, July-September, 1940. W. Ayvazoglou, comp. U S Geol S Bul 925-C:93-136; pa 10c Supt. of doc. '41

Geophysical abstracts 103, October-December, 1940. W. Ayvazoglou, comp. U S Geol S Bul 925-D:137-200 [Index, January-December, 1940, p181-200]; pa 10c Supt. of doc. '41

Geophysical abstracts 104, January-March 1941. W. Ayvazoglou, comp. U S Geol S Bul 932-A:1-40; pa 10c Supt. of doc. '41

Geophysical abstracts 105, April-June, 1941. W. Ayvazoglou, comp. U S Geol S Bul 932-B:41-84; pa 10c Supt. of doc. '42

Geophysical abstracts 106, July-September, 1941. W. Ayvazoglou, comp. U S Geol S Bul 932-C:85-122; pa 10c Supt. of doc. '42

GEOPOLITICS

America's geo-political institute. C. R. Bryan. For Comm W 7:3+ My 16 '42

Case for geopolitics. Business Week p68 Ag 1 '42

Generals and geographers; the twilight of geopolitics. H. W. Weigert. 273p bibliog(p262-8) $3 Oxford '42

Geopolitics; the struggle for space and power. R. Strausz-Hupé. 274p $2.75 Putnam '42

GEOPOLITICS—*Continued*

Geopolitik; doctrine of national self-sufficiency and empire. J. Mattern. (Studies in historical and political science, ser. 60, no. 2) 139p $2; pa $1.50 Johns Hopkins press, Baltimore '42

GEORGE II, king of Greece, 1890-

Greek king visits U.S. Comm & Fin Chr 156:23 Jl 2 '42

GEORGE-DEEN act. See Vocational education—Federal aid

GEORGIA

Georgia: unfinished state. H. Steed. 336p $3.50 Knopf '42

See also

Forests and forestry—Georgia
Water supply—Georgia

GERANIAL. See Citral

GERANIOL

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

Preparation of pure geraniol. H. A. Jones and J. W. Wood. Ind & Eng Chem 34:488 Ap '42

GERANOL

See also

Cyclogeraniol

GERMAN language

Scientific German for intermediate students. H. F. H. Lenz. 247p $1.85 Norton '42

GERMAN measles. See Rubella

GERMAN propaganda. See Propaganda, German

GERMANE

Vibration-rotation spectrum of GeH_4. J. W. Straley, C. H. Tindal and H. H. Nielsen. Phys R 62:161-5 Ag 1 '42

GERMANIUM

Analysis

Determination of germanium in silicate rocks. A. G. Hybbinette and E. B. Sandell. Ind & Eng Chem Anal ed 14:715-16 S 15 '42

GERMANIUM chloride

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

GERMANS in the United States

German immigrants and their children. C. Wittke. Ann Am Acad 223:85-91 S '42

GERMANY

For a total victory; no German cooperation in reconstruction to be expected. M. Kwapiszewski. Ann Am Acad 222:54-9 Jl '42

Thus speaks Germany. W. W. Coole and M. F. Potter, eds. 412p bibliog(p360-405) $3.50 Harper '41

See also

Chemical industries—Germany
Child labor—Germany
Finance—Germany
Glass trade—Germany
Insurance, Life—Germany
Insurance, Social—Germany
Labor and laboring classes—Germany
Labor laws and legislation—Germany
Population—Germany
Secret service—Germany
Wages—Germany
World war, 1939—Germany

Army

Hitler's war machine and the invasion of Britain. W. Necker. 282p 12s 6d L. Drummond, London '41

Self-betrayed; glory and doom of the German generals. C. Riess. 402p bibliog(p387-92) $3 Putnam '42

Biography

Men of chaos. H. Rauschning. 341p $3 Putnam '42

Civilization

Combine of aggression; masses, elite, and dictatorship in Germany. K. Otten. 356p 15s G. Allen & Unwin, London '42

Roots of national socialism, 1783-1933. R. D. Butler. 310p bibliog(p300-4) $3.75 Ryerson press '41

Commerce

European trade relations. Economist 142:292-3 F 28 '42

I. G. Farben adds the Balkans to the Reich. K. Falk. il map For Comm W 9:4-9+ O 17; 8-10, 36-8 O 24 '42

U.S. company wages all-out war to smash Nazi control of Latin America drug outlets; Sterling products seizes I. G. Farbenindustrie propaganda machine. G. A. Nichols. il Ptr Ink 198:13-15, 48+ F 13 '42

Commercial policy

Trade policies of foreign countries during 1941; continental Europe. H. Chalmers. For Comm W 6:8-9+ F 7 '42

Trade with Germany. Economist 142:147 Ja 31 '42

Economic conditions

German Europe in 1941. Economist 142:sup14 Mr 14 '42

Inflation in Reich. Business Week p85-6 N 15 '41

What sort of Germany faces us? For Comm W 5:4-5+ D 20 '41

Why the German republic fell and other studies of the causes and consequences of economic inequality. A. W. Madsen, ed. 177p pa 2s 6d Hogarth press, London '41

Economic policy

Europe; a new economic order rises. maps Fortune 25:48-51+ Ja '42

Europe under Hitler, in prospect and in practice. 45p pa 25c Oxford '41

European economic front. Economist 142:467-8 Ap 4 '42

Germany diverts excess purchasing power to war financing. For Comm W 7:6-7 My 2 '42

Germany's economic conquest of central and south-east Europe. G. Druce. Chem & Ind 61:160 Ap 4 '42

Grossraum economy. Economist 141:628 N 22 '41

National planning in selected countries. L. L. Lorwin. 173p U.S. Nat. resources planning board, Washington; pa 40c Supt. of doc. '41

No peace with I. G. farben; case against the cartel system. map Fortune 26:104-7+ S '42

Organisation of Europe. Economist 142:42-3 Ja 10 '42

Patents for Hitler. G. Reimann. 316p $2.50 Vanguard press, 424 Madison av, New York '42

Third phase: technical concentration and the decentralisation of economic administration. Economist 142:830 Je 13 '42

Why Hitler's economy fooled the world; an explanation of capital and the German economy. H. J. Taylor. 45p $1 Christopher pub. house, Boston '41

Foreign relations

Appeasement, before, during and after the war. P. Einzig. 215p $2.50 Macmillan '42

German geopolitics. H. W. Weigert. 32p pa 10c Oxford '41

Tornado across eastern Europe; the path of Nazi destruction from Poland to Greece. J. Hanč. 337p bibliog(p325-30) $3 Greystone press, New York '42

World in trance; from Versailles to Pearl harbor. L. Schwarzschild. 445p $3.50 L. B. Fischer pub. corp, 381 4th av, New York '42

See also

Argentina—Foreign relations—Germany

Russia

Duel for Europe; Stalin versus Hitler. J. Scott. 381p $3.50 Houghton '42

United States

Ambassador Dodd's diary, 1933-1938. W. E. Dodd, jr. and M. Dodd, eds. 464p $1.89 Harcourt '41

GERMANY—*Continued*

Industries and resources

Concentration and rationalization of industries in Germany. For Comm W 7:3-4+ Je 20 '42

German Europe; basic industries. Economist 142:432 Mr 28 '42

Industrial collaboration. Economist 142:258-9 F 21 '42

Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:91-6 Ja 25 '42

Mobilization of capacity and resources of small-scale enterprises in Germany. E. Grunberg. bibliog J Business 14:319-44; 15: 56-89 O '41-Ja '42

Our enemies, chemically speaking. K. Falk. Chem & Met Eng 49:80-2 Ja '42

Intellectual life

Physics in Nazi Germany. Science 94:488-9 N 21 '41

Moral conditions

German mentality. Verrina. 257p $3.25 Norton '41

Nazi movement

Behemoth; the structure and practice of national socialism. F. Neumann. 532p bibliog (p477-518) $4 Oxford '42

Foe we face. P. J. Huss. 300p $3 Doubleday '42

Four years of Nazi torture. E. Winkler. 200p $2.50 Appleton-Century '42

German philosophy and politics. J. Dewey. rev ed 149p $2 Putnam '42

Hitler's counterfeit Reich; behind the scenes of Nazi economy. K. Robert, pseud. 122p $1 Alliance book corp, New York '41

Lunacy becomes us, by A. Hitler and his associates. C. Leiser, ed. 138p 49c World pub. co, 2231 W. 110th st, Cleveland '42

Make and break with the Nazis: letters on a conservative revolution. H. Rauschning. 253p $2.75 S. J. Reginald Saunders, 84 Wellington st, W, Toronto '41

Nazi guide to Nazism. R. Tell, ed. 192p pa $1 Am. council on public affairs, 2153 Florida av, NW, Washington, D.C. '42

Nazi terror rips up business' roots. G. S. Messersmith. For Comm W 8:11+ Ag 29 '42

On borrowed peace. H. zu Loewenstein. 344p $3 Doubleday '42

Revolution of nihilism. H. Rauschning. 300p $1 Garden City pub. co., Garden City, N.Y. '42

Roots of national socialism. R. D. Butler. 304p bibliog(p300-4) $3 Dutton '42

Structure of the Nazi economy. M. B. Y. Sweezy. 255p bibliog(p241-6) $3 Harvard univ. press '41

Time was; death of a Junker. H. Hauser. 308p $3 Reynal & Hitchcock, New York '42

Underground Germany. Economist 143:261-2 Ag 29 '42

Occupations

Juvenile employment in Germany. Int Labour R 45:512-20 My '42; Abstract. Monthly Labor R 55:234-7 Ag '42

Politics and government

State versus party. Economist 142:642 My 9 '42

Social conditions

People under Hitler. W. R. Deuel. 392p bibliog(p379-80) $3.50 Harcourt '42

Territorial expansion

Europe: how Germany rules it. Fortune 24: 132, 134, 136 D '41

GERMICIDES. See Disinfection and disinfectants

GERMINATION
Stored seed germinate even after eight years. Sci Am 166:78-9 F '42

GETMAN, Frederick Hutton, 1877-1941
Sketch. E. C. Bingham. Science 95:36-7 Ja 9 '42

GEYSERS

Models

Experiments in geyser action. T. M. Hills and A. S. Warthin, jr. diag Am J Sci 240:512-17, pl 1 Jl '42

Model geyser. J. D. Forrester and H. W. Thune. diag Science 95:204-6 F 20 '42

GIANNINI, Lawrence Mario, 1894-
Gianninis' smokes; acquire control of Axton-Fisher tobacco co. por Business Week p50 O 10 '42

GIBBS, Carl C. 1882-1942
Sketch. por Ry Age 113:444 S 19 '42

GIBBS, Josiah Willard, 1839-1903
Willard Gibbs. M. Rukeyser. 465p bibliog(p446-53) $3.50 Doubleday '42

GIBBS-DUHEM equation
Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

GIESECKE, Frederick Ernst, 1869-
Giesecke gets Paul Anderson medal. Power 86:295c+ Ap '42

GIFFORD, Walter Sherman, 1885-
Bank director closeup; industry's best effort. W. R. Kuhns. Banking 34:75-6 F '42

GIFFORD-WOOD company
Gifford-Wood advertising has been continuous for 128 years. I. W. Tyson. il Ind Marketing 27:22-4 Mr '42

GIFT packages. See Package goods—Gift packages

GIFT shops
America house, retail outlet for a group of handcraft organizations; Trade winds, inc. shop for products made by refugees. il diag plan Arch Rec 91:48-9 Mr '42

GIFT tax
Federal estate and gift taxation. R. E. Paul. 2v $20 Little '42

Federal taxation of life insurance and annuities. M. D. Bachrach. J Account 74: 164-5 Ag '42

Grandfather to grandchild gifts, with example. J. O. Todd. East Underw 43:84+ pt 2 O 9 '42

Income, estate and gift tax provisions of the Internal revenue code as amended to Oct. 1, 1941. 329p pa $1 Commerce clearing house '41

Integration of gift, estate, and income taxes; abstract. P. F. Sherman. Trusts & Estates 73:677 D '41

New gift taxes. J. B. Lowe and J. D. Wright. Banking 34:46-8 D '41

Taxation and valuation of reverters. R. B. Barker. Trusts & Estates 74:625-7 Je '42

GIFTS
Gift manufacturers keep chins up. S. Carter. Ptr Ink 198:22 Mr 6 '42

See also
Charities
Christmas gifts
Colleges and universities—Gifts, legacies, etc.
Museums—Gifts, legacies, etc.
Package goods—Gift packages
Parcels for the forces, inc.

GIFTS (in business)
How to answer requests for donations; some De Long letters. C. A. Emley. Ptr Ink 199:65 My 1 '42

GIFTS (law)
Transfers in contemplation of death; recent federal decisions indicate factors determinative of estate tax liability. F. W. Ganse. Trusts & Estates 75:419-25+ O '42

See also
Gift tax

GIFTS for soldiers. See Soldiers, Gifts for

GILBERT, William (1540?-1603)
William Gilbert, the first electrician. A. K. Bruce. Engineer 172:336-7 N 14 '41

GILDING metal
Recovery of gilding metal from clad steel; cupric ammonium carbonate leaching. A. J. Thompson. il Iron Age 150:51-3 N 12 '42

GILLETT, Horace Wadsworth, 1883-
Portrait. Fortune 25:65 Ap '42

GILLETTE safety razor company
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:592 S 19 '42

GIN
All-America package competition; award to the Fleischmann distilling corp. il Mod Packaging 15:152-3+ Ap '42

GINGER
Ginger exports from British West Indies first 9 months of 1940 and 1941. For Comm W 5:20 D 27 '41
Jamaican exports of ginger, 1940 and 1941. For Comm W 7:22 My 9 '42
Sierra Leone ginger production. For Comm W 6:21 Ja 3 '42

GIRBOTOL process. See Gas purification

GIRDERS
Cantilever girders preferred. C. H. Wood. diag Eng N 129:235 Ag 13 '42
Concrete and laminated wood framing; machine shop, built by the Defense plant corp. il diags Eng N 129:566-8 O 22 '42
Deep girders welded by automatic arc. il diag Iron Age 149:70-1 Mr 26 '42
Deflections of continuous steel-beam highway bridges. T. W. Oliver. Eng N 129:242 Ag 13 '42
Design procedure for continuous hollow-girder concrete bridges. il diag Roads & Bridges 80:30-1+ F '42
Fabrication of steel girders by arc-welding. il Engineering 154:6 Jl 3 '42; Engineer 173:543 Je 26 '42
Investigation of welded and riveted load-bearing stiffeners of plate girders. F. J. Evans and H. Brenman. il diags Welding J 21:sup280-5 Je '42
Plywood girders roof a warehouse; RCA manufacturing co. il diag Eng N 128:625-6 Ap 23 '42
Progress in the structural elements of buildings. T. L. Condron. il diags W Soc E J 47:208-38 O '42

See also
Airplane wings
Beams
Bridges
Building
Roofs
Steel construction
Strains and stresses
Trusses

Testing

Heavy load tests on a plywood girder; civil engineering laboratory of Carnegie institute of technology. C. W. Muhlenbruch. il diags Eng N 129:31-3 Jl 2 '42; Abstract. Engineering 154:128 Ag 14 '42

GIRDLER, Tom Mercer, 1877-
Tom Girdler's truce; with the new deal and labor. pors Fortune 26:88-93+ S '42

GIRDLES

Rating

Lightweight girdles and corsets. Consumers' Research Bul 9:12-14 F '42

GIVEN, William Barns, jr, 1886-
Bottom-up management; technique of William B. Given, jr. in building American brake shoe & foundry co. J. A. Murphy. por Sales Management 50:18-21 My 15 '42

GLACÉ fruit. See Candied fruit

GLACIAL epoch
Indications as to climatic changes from the timberline of Mount Washington. R. F. Griggs. bibliog Science 95:515-19 My 22 '42

GLACIAL geology
Geomorphology of the Ventura region, California. W. C. Putnam. fold map maps Geol Soc Bul 53:691-754, pl 1-5 bibliog(p752-4) My '42
Glaciation of Shickshock mountains, Gaspé peninsula. R. F. Flint, M. Demorest and A. L. Washburn. bibliog maps Geol Soc Bul 53:1211-30, pl 1-2 Ag '42
Gravel outwash near Chillicothe, Ohio. F. Leverett. Science 95:528 My 22 '42
Interglacial consequent valleys of central New York. J. S. Wold. bibliog il Am J Sci 240:617-26, pl 1 S '42
Large glacial erratics. R. L. Rutherford. bibliog Am J Sci 240:448-9 Je '42
Pleistocene geology of western Cape Cod, Massachusetts. K. F. Mather, R. P. Goldthwaite and L. R. Thiesmeyer. bibliog maps Geol Soc Bul 53:1127-74, pl 1-7 Ag '42
Shiftings of the Mississippi river in relation to glaciation. F. Leverett. bibliog maps Geol Soc Bul 53:1283-98 S '42
Snake Butte boulder train and related glacial phenomena, north-central Montana. M. M. Knechtel. bibliog maps Geol Soc Bul 53:917-35, pl 1-3 Je '42
Wind-worn stones in glacial deposits of the Middle West. L. R. Thiesmeyer. bibliog Science 96:242-4 S 11 '42

See also
Drift
Glaciers

GLACIERS
Geology of the Gerstle River district, Alaska; with a report on the Black Rapids glacier. F. H. Moffit. map U S Geol S Bul 926-B:107-60, pl 2-11; pa 35c Supt. of doc. '42
Glacier thinning during deglaciation. R. F. Flint and M. Demorest. diags Am J Sci 240:29-66, 113-36, pl 1 bibliog(p 133-6) Ja-F '42
Glaciers of comparatively recent origin in Sierra Nevada mountains; abstract. F. E. Matthes. Sci Am 166:196 Ap '42
Story the rocks tell of Niagara falls; its past, present, and future. G. C. Forrester. il diags map Chem & Eng N 20:899-903 Jl 25 '42

See also
Drift

GLANDS, Ductless

See also
Thyroid gland

GLANDULAR products
Pharmaceutical supplies conditions; glandular pharmaceutical products. C. S. Curtis. Oil Paint & Drug Rep 141:55+ Je 22 '42

GLARE
Cuts glare; etching glass surfaces reduces reflection. il Sci Am 165:335 D '41
Glare and lighting design; direct glare. E. W. Fowler and C. L. Crouch. bibliog diag Illum Eng 36:897-916 N '41; Discussion. 37:171-81, 423-4 Mr, Jl '42
Intrinsic brightness as a factor in discomfort from glare. M. Luckiesh and F. K. Moss. diag Opt Soc Am J 32:6-7 Ja '42
Spatial lighting eliminates glare. il Iron Age 149:48 Ap 9 '42

GLASER, Christopher, d 1678
Christopher Glaser. C. de Milt. bibliog J Chem Educ 19:53-60 F '42

GLASGOW university
New chemistry buildings at Glasgow. F. R. Storrie. il Chem & Ind 60:842-5 N 29 '41

GLASS
Analytical representation concerning glass in its glass annealing range; abstracts. A. Q. Tool. Glass Ind 23:179 My '42; Cer Ind 38:40 My '42
Basic principles involved in the glassy state. B. E. Warren. bibliog il diags J Ap Phys 13:602-10 O '42
Can silicon take a six-fold coordination in glass? K. Sun and A. Silverman. bibliog Am Cer Soc J 25:101-3 F 15 '42
Ceramics fighting on the home front; substitutes for metals. il Cer Ind 38:81-4 Ap '42
Ceramics help industry produce for defense; substitutes for metals. il Cer Ind 38:54-5 Ap '42
Conference on the physics of pigments and glasses. Glass Ind 23:222 Je '42
Consider glass in meeting materials shortage. C. Carmichael. il diags Machine Design 14:85-9+ Ag '42

GLASS—*Continued*

Cuts glare; etching glass surfaces reduces reflection. il Sci Am 165:335 D '41

Development of low melting glasses on the basis of structural considerations. N. J. Kreidl and W. A. Weyl. Glass Ind 23: 335-8+, 384-6+, 426-8+, 465-7, 480 S-D '42

Effect of barium oxide and zinc oxide on properties of soda-dolomite lime-silica glass. bibliog Am Cer Soc J 25:61-9 F 1 '42

Effect of broken glass on tires. Rubber Age 52:36 O '42

Effect of soft glass on melting point of rotenone. H. A. Jones. Ind & Eng Chem Anal ed 13:819 N 15 '41

Elasticity of glass at high temperatures, and the vitreous basaltic substratum. F. Birch and D. Bancroft. bibliog Am J Sci 240:457-90 Jl '42

Glass and other gages; abstract. H. B. Hambleton. Iron Age 150:64 O 22 '42

Glass and pottery playing a big part in war industries. il Mod Packaging 15:41 My '42

Glass as an engineering material; abstract. J. T. Littleton. Cer Ind 38:34+ My '42

Glass, glass-lined and fused silica; physical properties, makers. Chem & Met Eng 49: 103 S '42

Glass goes to war. T. J. Thompson. il Chem Ind 51:38-45 Jl '42; Same. Comp Air M 47: 6808-12 Ag '42; Excerpts. Am Cer Soc Bul 21:161-2 Ag 15 '42

Glass in parts design; its properties and applications. il Product Eng 13:28-30 Ja '42

Glass now made without use of sand. Sci Am 167:169 O '42

Mechanical properties of glass. F. W. Preston. bibliog il J Ap Phys 13:623-34 O '42

Modified calorimeter for high temperatures; the heat content of silica, wollastonite and thorium dioxide above 25°. J. C. Southard. bibliog diag Am Chem Soc J 63:3142-6 N '41

Properties of soda-silica glasses at high temperatures; abstract. K. Sun, N. W. Taylor and H. W. Safford. Glass Ind 23:178 My '42

Rare earths. N. J. Kreidl. bibliog Am Cer Soc J 25:141-3 Mr 1 '42

Structure of evaporated films of chromium and aluminum on glass. A. R. Oliver. bibliog Phys R 61:313-14 Mr 1 '42

Surface tension of glass and its effect on cords. W. B. Silverman. il Am Cer Soc J 25:168-73 Mr 15 '42

Urbana conference on glass problems; abstracts of papers. Glass Ind 22:513-16 D '41

X-ray diffraction and physical properties of potassium borate glasses. R. L. Green. bibliog Am Cer Soc J 25:83-9 F 1 '42

See also

Electrodes, Glass
Enamel and enameling
Food—Glass contamination
Glass manufacture
Glassware
Insurance, Plate glass
Mirrors
Plate glass
Stained glass
Windows

Analysis

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

Chemical analysis of cords and stones; abstract. G. Zarbo. Cer Ind 39:56 O '42

Bibliography

Alexander Silverman; with list of publications. Am Cer Soc Bul 20:454-7 D '41

Books on glass, a check-list of eighty selected titles. 23p Steuben glass, New York '42

Ceramic abstracts. Published in monthly numbers of American ceramic society Ceramic abstracts and Bulletin

Color

Changes in spectral transmission of soda silicate glass caused by the addition of lampblack and graphite. W. M. Cohn. bibliog il Glass Ind 23:95-8 Mr '42

Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42

Fluorescence of manganese in glasses and crystals. S. H. Linwood and W. A. Weyl. bibliog Opt Soc Am J 32:443-53 Ag '42

Glass strains produced by fired-on color; abstract. J. E. Ablard. Cer Ind 38:41 My '42

Replacement of oxygen in glass and its effect on adherence. W. A. Weyl. bibliog Glass Ind 23:135-7+ Ap '42

Decolorization

Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42

Industrial utilization of selenium and tellurium; glass decolorization by selenium. G. R. Watkins, A. E. Bearse and R. Shutt. Ind & Eng Chem 34:902 Ag '42

Oxidation-reduction equilibria in glass between iron and selenium in several furnace atmospheres. F. Day, jr. and A. Silverman. bibliog diag Am Cer Soc J 25:371-81 S 1 '42; Abstracts. Glass Ind 22:429+ O '41; Cer Ind 37:48 O '41

Definition

Definition of glass proposed by Prof. W. E. Turner. Glass Ind 22:495 N '41

FTC-Elasti-glass hearings. Glass Ind 23:25+ Ja '42

Durability

Effect of storage conditions on weathering of commercial glass containers. J. S. Owens and E. C. Emanuel. bibliog il Am Cer Soc J 25:359-71 S 1 '42; Abstract. Glass Ind 23:387 O '42

Electric properties

Dielectric igniters for mercury pool cathode tubes; use made of ability of glass to withstand increased potential gradients as thickness is decreased. H. Klemperer. bibliog il diag Electronics 14:38-41 N '41

Electrical conduction in the glass insulation of resistance thermometers. H. J. Hoge. bibliog diags J Research Nat Bur Stand 28:489-98 Ap '42

Electrical conductivity of borosilver glasses; abstract. B. I. Markin. Chem & Met Eng 48:132 D '41

Report on round-robin tests of power factor and dielectric constant for glass. P. A. Richards. diags Am Soc T M Proc 41:1183-97 '41

Expansion and contraction

Expansivity of a Vycor brand glass. J. B. Saunders. diag J Research Nat Bur Stand 28:51-5 Ja '42

Influence of boron oxide on expansibility. Glass Ind 23:107 Mr '42

Fluorescence

Fluorescence of glass. W. A. Weyl. bibliog il Ind & Eng Chem 34:1035-41 S '42

Replacement of oxygen in glass and its effect on adherence. W. A. Weyl. bibliog Glass Ind 23:135-7+ Ap '42

Study of photoluminescence in glasses; abstracts. A. R. Rodriguez and C. W. Parmelee. Glass Ind 23:184 My '42; Cer Ind 38:40 My '42

Fracture

Deterioration of old whiskey bottles. A. Silverman and L. G. Ghering. il Glass Ind 23:339 S '42

Gas content

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

Halogen content

Replacement of oxygen in glass and its effect on adherence. W. A. Weyl. bibliog Glass Ind 23:135-7+ Ap '42

Heat transmission

Guarded hot box test of single- and double-glazed windows. M. M. McClure. il diags Heating-Piping 14:313-16 My '42

GLASS—Heat transmission—*Continued*

Specification for the measurement of the transmission of heat and light through heat-absorbing glasses employed for glazing purposes. Illum Eng 36:931-3 N '41

Inspection

Polariscope as a glass factory instrument. V. C. Swicker. il Glass Ind 23:13-18 Ja '42

Joining to metal

Adherence of glass to metals. R. M. King. bibliog Glass Ind 23:421-3+ N '42

Iron-glass seal. Gen Elec R 45:299 My '42; Product Eng 13:357 Je '42; Same cond. Sci Am 167:57-8 Ag '42

Low expansion alloys for glass-to-metal seals. W. E. Kingston. bibliog diags Am Soc for Metals Trans 30:47-67 Mr '42; Excerpts. Metals & Alloys 16:338+ Ag '42

Replacement of oxygen in glass and its effect on adherence. W. A. Weyl. bibliog Glass Ind 23:135-7+ Ap '42

Light transmission

Anti-reflection films on glass. A. F. Turner. il Glass Ind 22:255-8 Je '41; Same cond. Cer Ind 39:30-2 Jl '42

Colored glasses; extinction coefficients for chromium and cobalt. S. R. Scholes and R. H. Dows. Glass Ind 23:301-3+ Ag '42

Daylight illumination on interiors fenestrated with glass blocks. G. M. Rapp and A. H. Baker. il diags Illum Eng 36:1129-48; Discussion. 1148-56 D '41

Light transmission of amber glasses. Glass Ind 23:261-2 Jl '42

New chemical method of reducing the reflectance of glass. F. H. Nicoll. bibliog il RCA R 6:287-301 Ja '42; Abstract. R Sci Instr 13:272-3 Je '42

Specification for the measurement of the transmission of heat and light through heat absorbing glasses employed for glazing purposes. Illum Eng 36:931-3 N '41

Spectral transmission of colored container glass. D. E. Sharp. Glass Ind 23:331-3+, 380-3 S-O '42

Structure of sodium borate glasses as affected by temperature. A. E. Badger, H. C. Johnson and J. O. Kraehenbuehl. bibliog il diag Am Cer Soc J 25:395-401 O 1 '42

Television leads RCA research laboratories to clue that cuts reflections from glass. Radio N 26:64-5 D '41

Transmitting, bending. H. R. Moulton. il Tech R 45:28-30+ N '42

See also
Glass, Invisible

Manganese content

Fluorescence of manganese in glasses and crystals. S. H. Linwood and W. A. Weyl. bibliog Opt Soc Am J 32:443-53 Ag '42

Manufacture

See Glass manufacture; Glassware manufacture

Oxygen replacement

Replacement of oxygen in glass and its effect on adherence. W. A. Weyl. bibliog Glass Ind 23:135-7+ Ap '42

Polishing

Nature of a polished surface. L. Motz. Opt Soc Am J 32:147-8 Mr '42

Protection

Adhesion and adhesives, with special reference to anti-scatter treatments for windows. B. Butterworth. bibliog Chem & Ind 61:339-41, 350-1 Ag 8-15 '42

Blackout coating. Chem & Met Eng 49:142 Je '42

Blackout coatings. J. Bradley. Paint Oil & Chem R 104:14-15; Discussion. 15-16 N 5 '42

Britain's glass substitutes and anti-scatter treatments. For Comm W 7:38 Je 13 '42

Civilian defense: building protection; glass. il Arch Forum 76:38-9 Ja '42

Glass in wartime; fracturing of glass under bomb attack; abstract. R. A. Miller. Cer Ind 39:78 O '42

Glass-protecting coatings. Oil Paint & Drug Rep 142:44 O 26 '42

Make your own safety glass. il Am Bld 64:91 Mr '42

Testing of varnishes for use in conjunction with anti-scatter fabrics. H. M. Llewellyn. Soc Chem Ind J 61:60-3 Ap '42

Testing window glass for concussion damage. il Eng N 128:521 Ap 2 '42

Stones

Chemical analysis of cords and stones; abstract. G. Zarbo. Cer Ind 39:56 O '42

Sources of stones in glass. D. W. Ross. Cer Ind 37:37-8 D '41

Strength

Breaking strength of glass; abstract. A. J. Holland and W. E. S. Turner. Engineering 153:112 F 6 '42

Effect of applied ceramic color on the strength of bottles. J. E. Ablard. Cer Ind 37:40+ D '41

Harmonic vibration breaking point of glass. E. L. Hettinger. il Glass Ind 23:20-2 Ja '42

Influence of temperature on the mechanical properties of glass; abstract. Jones and W. E. S. Turner. Glass Ind 23:387 O '42

Mechanical properties of glass. F. W. Preston. bibliog il J Ap Phys 13:623-34 O '42

Strength of bottles as affected by limitations of manufacturing processes. F. W. Preston. diags Am Cer Soc J 25:427-34 N 1 '42

Toughened glass. J. T. Littleton. Glass Ind 23:223 Je '42

Sulfur content

Replacement of oxygen in glass and its effect on adherence. W. A. Weyl. bibliog Glass Ind 23:135-7+ Ap '42

Temperature effect

Influence of temperature on the mechanical properties of glass; abstract. Jones and W. E. S. Turner. Glass Ind 23:387 O '42

Structure of sodium borate glasses as affected by temperature. A. E. Badger, H. C. Johnson and J. O. Kraehenbuehl. bibliog il diag Am Cer Soc J 25:395-401 O 1 '42

Testing

Decay of vibration phenomena of glass bars. J. G. McCann. il diags Am Cer Soc J 25:409-13 O 1 '42

Uses

GE turns out instrument jewels automatically; glass substitutes developed. Steel 111:116 N 2 '42

Glass goes to war. T. J. Thompson. il Chem Ind 51:38-45 Jl '42; Same. Comp Air M 47:6808-12 Ag '42

Glass in parts design; its properties and applications. il Product Eng 13:28-30 Ja '42

Glass satisfactory for jewel bearings; abstract. F. K. McCune and J. H. Goss. Cer Ind 39:28 Jl '42

GLASS, Cellular

Armstrong's Foamglas for cold storage insulation. il Am Bld 64:54 Jl '42; Heating-Piping 14:sup113 Jl '42; Refrig Eng 44:36-7 Jl '42; Chem & Eng N 20:925 Jl 25 '42

Foam glass. Science 96:sup8+ Jl 10 '42

Foam glass. E. L. Kreidl. bibliog Glass Ind 23:263+, 304-5+, 340-3+ (46 patents) Jl-S '42

GLASS, Colored

Colored glasses; extinction coefficients for chromium and cobalt. S. R. Scholes and R. H. Dows. Glass Ind 23:301-3+ Ag '42

Effect of tin in gold ruby glass. F. M. Veazie and W. A. Weyl. Am Cer Soc J 25:280-1 Je 1 '42

Glass proves valuable as structural material; murals for Toledo, Ohio, public library. il Cer Ind 38:60-1 Je '42

Glasses colored with nickel oxide; abstract. O. Přidal. Am Cer Soc J 25 (Cer A 21):8 Ja '42

GLASS, Colored—*Continued*

Industrial utilization of selenium and tellurium; selenium colorant for pink glass. G. R. Waitkins, A. E. Bearse and R. Shutt. Ind & Eng Chem 34:902-3 Ag '42

Light transmission of amber glasses. Glass Ind 23:261-2 Jl '42

New process for glass as art medium; Nicolas murals of flashed opaque glass. T. Laymon. il Glass Ind 22:518-20 D '41

Red silver glasses. E. Forst, jr. and N. J. Kreidl. bibliog Am Cer Soc J 25:278-80 Je 1 '42

Spectral transmission of colored container glass. D. E. Sharp. Glass Ind 23:331-3+, 380-3 S-O '42

Yellow or amber tinted glass; patent to Corning glass works. Glass Ind 23:264 Jl '42

GLASS, Effect of heat on. See Glass—Temperature effect

GLASS, Heat absorbing

Specification for the measurement of the transmission of heat and light through heat-absorbing glasses employed for glazing purposes. Illum Eng 36:931-3 N '41

GLASS, Heat resisting

Corning top-of-the-stove ware; patents. diag Glass Ind 23:308-9 Ag '42

Expansivity of a Vycor brand glass. J. B. Saunders. diag J Research Nat Bur Stand 28:51-5 Ja '42

Glass stoves. il Sci Am 167:124 S '42

See also

Pyrex

GLASS, Invisible

Anti-reflection films on glass. A. F. Turner. il Glass Ind 22:255-8 Je '41; Same cond. Cer Ind 39:30-2 Jl '42

Cartwright-Turner anti-reflection films. Glass Ind 23:228 Je '42

New chemical method of reducing the reflectance of glass. F. H. Nicoll. bibliog il RCA R 6:287-301 Ja '42; Abstract. R Sci Instr 13:272-3 Je '42

New glass treatment reduces reflection. F. H. Nicoll. il Elec W 117:1220+ Ap 4 '42

GLASS, Laminated

Drake and Watkins patent; pressing laminated glass together with a block of small rolls backed up by larger and more rigid rolls. diag Glass Ind 23:228-9 Je '42

Finnegan patent, liquid flow method, collecting roll. diag Glass Ind 23:266 Jl '42

See also

Glass, Safety

Manufacture

Kämpfer patent. diag Glass Ind 23:63 F '42

GLASS, Opal

Opal glass lighting fittings; abstracts. S. English. Elec R (Lond) 130:722 Je 5 '42; Light & Lighting 35:78 Je '42

Use of topaz as a glass opacifier. S. B. Meyer, jr. Glass Ind 23:185+ My '42

GLASS, Optical

Anti-reflection films on glass. A. F. Turner. il Glass Ind 22:255-8 Je '41; Same cond. Cer Ind 39:30-2 Jl '42

Development and testing of new glass at American optical company. il Glass Ind 23:140-2 Ap '42

Dispersion of optical glass. M. Herzberger. Opt Soc Am J 32:70-7 F '42

Silver plating of optical glassware; triethanolamine as a reducing agent. R. D. Barnard. Ind & Eng Chem 34:637-8 My '42

See also

Goggles
Lenses
Optical instruments

Manufacture

Canada produces optical glass for wartime purposes. il Cer Ind 39:31-3 S '42

Canadian optical instrument industry. W. E. Phillips. Engineering 153:424-5, 465 My 29, Je 12 '42

New annealing technique in optical glass produces greatest homogenity. il Glass Ind 23:424-5 N '42

New annealing technique produces superior optical glass; American optical co. E. D. Tillyer. il Cer Ind 39:34+ N '42; Same. Sci Am 167:252-3 D '42

Production of optical glass in Australia. E. J. Hartung. Glass Ind 23:429 N '42

Testing

Harmonic vibration breaking point of glass. E. L. Hettinger. il Glass Ind 23:20-2 Ja '42

GLASS, Ornamental

Commercial art glass; original modern Czecho-Slovakian art creations. L. Moser. il Glass Ind 23:101-3 Mr '42

Patterned glasses give remodeled houses a lift. il Am Bld 64:74-5 Ja '42

GLASS, Polarizing. See Polaroid

GLASS, Porous. See Glass, Cellular

GLASS, Safety

Coating makes glass shatterproof. il Arch Rec 91:82 Mr '42

Libbey-Owens-Ford glass co.; humidity control for safety glass manufacture. L. T. Avery. flow diag il diag Heat & Ven 39:45-7 Ja '42

See also

Glass, Laminated

GLASS, Sponge. See Glass, Cellular

GLASS, Spun. See Glass fibers

GLASS, Stained. See Stained glass

GLASS, Structural

Conserving metals with stone and glass veneers; building facings, with time-saver standards. F. G. Lopez, jr. diags Arch Rec 90:92-6 D '41

Glass and glass substitutes. 18p bibliog(p18) U.S. Office of civilian defense, Washington '41

See also

Glass blocks
Glass construction

GLASS, Substitutes for

Britain's glass substitutes and anti-scatter treatments. For Comm W 7:38 Je 13 '42

See also

Plastic materials, Transparent

GLASS blocks

Cellular or foamed glass block; patent. diags Glass Ind 22:482-3 N '41

Daylight illumination on interiors fenestrated with glass blocks. G. M. Rapp and A. H. Baker. il diags Illum Eng 36:1129-48; Discussion. 1148-56 D '41

Glass, a non-critical item. il Am Bld 64:54 Ja '42

Glass blocks bend light; daylight conservation achieved by refraction of incoming light to ceilings and sidewalls. il Sci Am 166:62-3 F '42

Glass blocks; patent granted to D. A. Bridges. diag(p 528) Glass Ind 22:536 D '41

How to modernize windows in war shops and plants. il diags Am Bld 64:74-5 Ap '42

Transparent glass building block provides vision. il Sci Am 166:15 Ja '42

Vue glass block is new. il Am Bld 63:80-1 D '41

GLASS blowing and working

60-year history of glass blowing. J. Morrison. il Cer Ind 39:58, 60, 62, 64 O; 48, 50, 52, 54 N; 48, 50+ D '42

Some useful expedients in laboratory glass working. R. H. Wright. diags J Chem Educ 19:71-2 F '42

GLASS bottles. See Bottles

GLASS bubbles

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

GLASS construction

Glass conversion; Libbey-Owens-Ford turns to making low-cost houses. Business Week p67+ Mr 7 '42

GLASS construction—*Continued*

Restyling the old-time cozy corner with glass and mirrors. il diags Am Bld 64:29 Jl '42

See also

Glass, Structural

Glass blocks

GLASS container association

Annual meeting, Rye, N.Y. May 25-27. Glass Ind 23:224-5, 234-6 Je '42; Cer Ind 38:40+ Je '42

Fall membership meeting, New York, Oct. 29-30. Cer Ind 39:40 N '42; Glass Ind 23:419-20+ N '42

GLASS container industry

Break for glass; container makers expect to hold much of war-gained business. Business Week p49 My 30 '42

Closures and the bottleneck. il Mod Packaging 16:37-52 S '42

Glass companies in World war II. F. W. Gustafson. Barron's 22:9 Ja 19 '42

Glass container makers guilty in trust suit. Oil Paint & Drug Rep 142:3+ Ag 31 '42

Judge's decision in Toledo trial dissolves glass container patents. Cer Ind 39:26-7 S '42

Toledo trial. Glass Ind 22:475+, 517+; 23:19, 60+, 334+ N '41-F, S '42

See also

Glass container association

History

60-year history of glass blowing. J. Morrison. il Cer Ind 39:58, 60, 62, 64 O; 48, 50, 52, 54 N; 48, 50+ D '42

GLASS containers

Can label identity retained on glass; Veg-All. il Mod Packaging 16:69+ O '42

Coffee jars ride former tin lines. R. Latimer. il Mod Packaging 16:73-5 N '42

Does light have any effect on glass-packed foods? J. J. Powers and W. B. Esselen, jr. bibliog il Cer Ind 39:36-8 Ag '42

Effect of container on soluble silica content of water samples. C. A. Noll and J. J. Maguire. bibliog Ind & Eng Chem Anal ed 14:569-71 Jl 15 '42

Effect of storage conditions on weathering of commercial glass containers. J. S. Owens and E. C. Emanuel. bibliog il Am Cer Soc J 25:359-71 S 1 '42; Abstract. Glass Ind 23:387 O '42

Expansion of glass package use can save 357,000 tons of steel. Cer Ind 39:39 Ag '42

Glass container designs frozen. Food Ind 14:77 Je '42

Glass containers. J. H. Toulouse. Soap & San Chem 18:107-8 Jl '42

Glass containers and present shortages of materials; abstract. E. F. Bertrand. Oil Paint & Drug Rep 140:7+ D 8 '41

Glass does not make an unsuitable container! Cer Ind 38:42+ Je '42

Glass troubles. Business Week p56 Mr 7 '42

Glass vs. tin cans. Business Week p46 Ja 24 '42

Many coffee firms adopt glass pack; multiple grinds to go? il Sales Management 50:52-5 Je 15 '42

Paint glass containers. E. A. Leveille. Oil Paint & Drug Rep 141:7+ Mr 23 '42

Revolutionary type glass jar will help save metal. il Cer Ind 38:40 Ap '42

Spectral transmission of colored container glass. D. E. Sharp. Glass Ind 23:331-3+, 380-3 S-O '42

Up-to-date notes on Del Monte's sponsorship of glassed foods. il Sales Management 50:34-5 Ap 1 '42

Water hammer breakage in glass containers. T. C. Baker. il diags Glass Ind 22:430-3, 469-74, 485-6, 521-4, 534-6 O-D '41; Abstract. Cer Ind 37:48 O '41

See also

Bottles

Milk bottles

Manufacture

Application of electricity to the annealing of glass bottles and containers. E. S. Morris. diags Inst E E J 89 pt 2:355-66 Ag '42; Discussion. Electrician 128:171-2 F 27 '42; Inst E E J 89 pt 2:366-8 Ag '42

Duraglas-Owens-Illinois' modern glass container; pictorial review of the manufacturing processes. Cer Ind 39:42-6 N '42

Standards

Food jars simplified. diag Food Ind 14:62 Mr '42

Glass container standards help meet increased demand. diag Ind Stand 12:299-300 N '41

Glass containers simplified to save scarce materials. il diags Food Ind 14:44-6 Ap '42

Glass containers standardized. il Food Ind 14:64-5 N '42

Simplification of glass containers becomes a war necessity. diag Glass Ind 23:55-6 F '42

Standardize to save. diag Mod Packaging 15:58 Mr '42

Testing

Thermal shock test. Murgatroyd. Glass Ind 23:348 S '42

Variable factors in accelerated autoclave chemical durability tests. J. S. Owens and E. C. Emanuel. Am Cer Soc J 25:143-9 Mr 1 '42

See also

Bottles—Testing

GLASS decorations. See Glassware—Decoration

GLASS drawing

Drawn glass; modern production methods in a new Canadian industry. il Can Chem & Process Ind 26:517-19 S '42; Same. Chem Age (Lond) 47:445-6 N 21 '42

GLASS electrodes. See Electrodes, Glass

GLASS eyes. See Eyes, Artificial

GLASS fabrics

Fiberglas textiles. Textile Col 64:184+ Ap '42

Insulated shipboard piping now jacketed with Fiberglas tape. il Marine Eng 47:118+ F '42

See also

Glass fibers

GLASS factories

New glass plant for Texas. il Manuf Rec 111:38 F '42

New plants of 1941; glass products warehouse. il Factory Management 100:B74 Ap '42

See also

Bottle factories

Glass manufacture

Employees

Evaluation of the lead hazard in the decorating department of a glass plant; relation of urinary and atmospheric lead determinations. C. A. Smucker and J. B. Kistler. J Ind Hygiene 24:1-4 Ja '42

Fiberglas health hazard investigation. W. J. Siebert. Ind Med 11:6-9 Ja '42

Equipment

Annual review section. il Cer Ind 38:85-106 Ap '42

Automatic machinery lowers costs in newly patented batch house; weighing, conveying, mixing, discharging and delivery to furnace. diag Cer Ind 38:80+ F '42

Complete solenoid control speeds Olean's carton conveyor system. L. H. Cargill. il Glass Ind 23:297-300 Ag '42

Duraglas-Owens-Illinois' modern glass container; pictorial review of the manufacturing processes. Cer Ind 39:42-6 N '42

Libbey-Owens-Ford glass co.; humidity control for safety glass manufacture. L. T. Avery. flow diag il diag Heat & Ven 39:45-7 Ja '42

Maximum capacity, minimum labor with engineered conveyor system. W. R. Schlehr. il diag Cer Ind 38:66, 68, 70, 72 F '42

GLASS factories—Equipment—*Continued*

Plate glass manufacture; Creighton plant of Pittsburgh plate glass co. il flow diag Chem & Met Eng 49:114-17 Ja '42

Polariscope as a glass factory instrument. V. C. Swicker. il Glass Ind 23:13-18 Ja '42

See also
Glass furnaces
Glass machinery
Glass tanks

Fuel

Standby systems solve fuel problem for two different glass plants; Fostoria glass co. uses butane-propane gas; Imperial glass co. uses oil. il Cer Ind 39:34-6 S '42

Laboratories

Air conditioned chemistry laboratory does its part in winning the war; Columbia chemical div. of the Pittsburgh plate glass co. L. T. Avery. il diag Heating-Piping 14:295-6 My '42

Power

Conserving power, air, and gas; Corning glass works, Corning, N.Y. F. S. Kriger. Factory Management 100:141-2+ Ag '42

Diesel conversion shows great reliability; engine originally operated on natural gas; Olean glass factory. il Diesel Power 19:1021-2 D '41

GLASS fibers

Blast-cushioning glass fiber material. Textile Col 64:307 Je '42

Consair plant nears completion at Ft. Worth; use of Fiberglas. T. E. Lloyd. il Iron Age 148:86-7 N 27 '41

Cork substitute; asphalt enclosed Fiberglas board. Chem & Met Eng 49:108 Jl '42

Fiberglas A-E board. il Refrig Eng 43:234 Ap '42

Fiberglas insulation in the low-temperature field. J. B. Schneller. il diags Refrig Eng 43:280-2 My '42

Fiberglas is replacing strategic materials. Refrig Eng 43:167 Mr '42

Fiberglas properties and applications; abstract. F. V. Tooley. Cer Ind 38:37 My '42

Fiberglas quiets roar in test cells. il Aviation 41:104-5 Ja '42

Fiberglas replaces many scarce materials. Mach 49:164 S '42

Glass fiber insulation used for brass furnace. Iron Age 150:39 S 24 '42; Same. Elec W 118:1486 O 31 '42

Glass wool and fiber; patents. Published in monthly numbers of Glass industry

Insulating blackout plants; bomber assembly plants at Fort Worth, Texas, and Tulsa, Oklahoma. H. T. Rutledge. il Sci Am 165:328-9 D '41

Insulation board made of glass replaces cork. Sci Am 166:234-5 My '42

New-construction possibilities for chemical plants; Ferroglas construction. il Chem & Eng N 20:1236-7 O 10 '42

New forms of glass cited as evidence of opportunities in industrial research; abstract. G. Slayter. Franklin Inst J 233:203 F '42

Owens-Corning Fiberglas corporation; sound stacks for absorption of noises set up by airplane engines and propellers while they are being tested. il J Aeronautical Sci Aeronautical R Sec 9:47 D '41

Seven glass fiber patents assigned to Owens-Corning Fiberglas corp. diag Glass Ind 23:309-10 Ag '42

See also
Glass wool

Manufacture

Fiberglas health hazard investigation. W. J. Siebert. Ind Med 11:6-8 Ja '42

Glass fibre manufacture; new Canadian industry. il Can Chem & Process Ind 26:81-2 F '42

Owens-Corning Fiberglas corp; air conditioning system. il Heat & Ven 39:81-3 Ja '42

Owens-Corning Fiberglas electric furnace; patent. diag Glass Ind 23:229 Je '42

Physiological effect

Effects of Fiberglas on animal and human skin. M. B. Sulzberger and others. Ind Med 11:482-4 O '42

GLASS furnaces

Fundamental aspects of heat transmission in glass melting furnaces; abstract. Smith, Roberts and Townsend. Glass Ind 23:430 N '42

Large plate glass melting furnace operates 905 days without shutdown; Ford furnace. il Cer Ind 38:30-2 Mr '42

Symposium on glass furnace problems. Chem & Ind 60:898-9 D 20 '41

See also
Glass tanks

Electric heating

Application of electricity to the annealing of glass bottles and containers. E. S. Morris. diags Inst E E J 89 pt 2:355-66 Ag '42; Discussion. Electrician 128:171-2 F 27 '42; Inst E E J 89 pt 2:366-8 Ag '42

Firing

Replacement of natural gas by oil fuel; abstract. E. S. Hammond. Cer Ind 39:54+ O '42

Patents

Barker patent; tubular conduits provide for uniform forehearth temperature. diag Glass Ind 23:264-5 Jl '42

Batchell patent to eliminate batch dust. diag Glass Ind 23:431 N '42

Glass melting furnace; patent granted to Samuel A. Forter. diag Glass Ind 23:104 Mr '42

Inventions and inventors. diags Glass Ind 23:26-7 Ja '42 [cont monthly]

Owens-Corning Fiberglas electric furnace; patent. diag Glass Ind 23:229 Je '42

Posten lehr loading device; patent. diag Glass Ind 23:345-6 S '42

Romazzotti electric glass furnace. diags Glass Ind 23:61 F '42

GLASS lining

Special glass for tank linings. il Metal Finishing 40:469 S '42

GLASS machinery

One extra tooth; Carrie glass polishing machine. F. W. Preston. Glass Ind 23:258-60+ Jl '42

60-year history of glass blowing. J. Morrison. il Cer Ind 39:58, 60, 62, 64 O; 48, 50, 52, 54 N; 48, 50+ D '42

Patents

Feeding, forming and shaping. diags Glass Ind 23:27 Ja '42

Inventions and inventors; United States patents of interest to the glass industry. Published in monthly numbers of Glass industry

Schutz continuous machine for forming and finishing footed tumblers. diags Glass Ind 23:344-5 S '42

Schutz tumbler machine. diag Glass Ind 23:227 Je '42

Soubier forming machine suitable for tumblers. diag Glass Ind 23:226-7 Je '42

GLASS making materials

Glassforming nature of oxides with special reference to tantala, titania, and beryllia. K. Sun and A. Silverman. bibliog Am Cer Soc J 25:97-100 F 15 '42

High-school chemistry; glass. F. C. Flint. il diag J Chem Educ 19:287-96 Je '42

Raw materials used in glass making. J. Randolph. 21p Geological survey, Norman, Okla. '41

Specifications and tests of ceramic raw materials; glass batch materials. Cer Ind 38:119-20 Ja '42

Use of arsenic in the glass industry. W. A. Weyl. bibliog Glass Ind 23:253-7+ Jl '42

Use of cullet, a review. bibliog Glass Ind 23:57-9 F '42

GLASS making materials—*Continued*

Use of topaz as a glass opacifier. S. B. Meyer, jr. Glass Ind 23:185+ My '42

See also

Feldspar

Sand

Prices

Current prices of glass-making materials. Published in monthly numbers of Glass industry

GLASS manufacture

American ceramic society meeting; abstracts of papers of interest to glassmakers. Cer Ind 38:33-4, 36-7, 40-2 My '42

Ceramic batches; collection of recipes. Cer Ind 38:127-8, 131-2 Ja '42

Drawn glass; modern production methods in a new Canadian industry. il Can Chem & Process Ind 26:517-19 S '42; Same. Chem Age (Lond) 47:445-6 N 21 '42

Elimination of batch dust. C. T. Frazier. il diag Cer Ind 37:36-7 D '41

Glass-batch mixing. W. E. Brownell and S. R. Scholes. il Am Cer Soc J 25:56-9 Ja 15 '42

Glass industry; output expanded to meet demand and rearmament. Index 21 no 4:88-94 [D] '41

Handbook of the glass industry; a book of reference for the factory engineer, chemist and plant executive. S. R. Scholes, ed. 202p $5 Ogden-Watney publishers, New York '41

High-school chemistry; glass. F. C. Flint. il diag J Chem Educ 19:287-96 Je '42

How to get longer service from glasshouse refractories. bibliog il diags Cer Ind 37:36-7, 40-1, 44 O; 50, 52, 54-6 N; 58+ D '41; Excerpts (pt 2-3). Brick & Clay Rec 100:40, 42, 44+ Je '42

Modern glass practice. S. R. Scholes. rev & enl ed 289p $6 Industrial publications, Chicago '41

Sources of stones in glass. D. W. Ross. Cer Ind 37:37-8 D '41

Technical sessions of the American ceramic society Glass division 44th annual meeting; with abstracts of papers. Glass Ind 23:175-82, 184+ My '42

Use of arsenic in the glass industry. W. A. Weyl. bibliog Glass Ind 23:253-7+ Jl '42

Use of cullet, a review. bibliog Glass Ind 23:57-9 F '42

Volatilization of soda from soda-lime-silica glasses; a review. bibliog Glass Ind 23:23-4 Ja '42

See also

Glass, Laminated—Manufacture

Glass, Optical—Manufacture

Glass factories

Glass furnaces

Glass making materials

Glassware—Manufacture

Owens-Illinois glass company

Pittsburgh plate glass company

Plate glass—Manufacture

History

Cloth of glass; history of glass manufacture in Massachusetts. S. Lanier. il Tech R 44:268-9+, 316-18+ Ap-My '42

60-year history of glass blowing. J. Morrison. il Cer Ind 39:58, 60, 62, 64 O; 48, 50, 52, 54 N; 48, 50+ D '42

Patents

Foam glass. E. L. Kreidl. bibliog (12 titles and 46 patents) Glass Ind 23:340-3+ S '42

Inventions and inventors; United States patents of interest to the glass industry. Published in monthly numbers of Glass industry

GLASS melting

Assessment of performance of tank furnace for melting glass; abstract. Glass Ind 23:395 O '42

Development of low melting glasses on the basis of structural considerations. N. J. Kreidl and W. A. Weyl. Glass Ind 23:335-8+, 384-6+, 426-8+, 465-7, 480 S-D '42

Effect of iron oxide on melting of glass. R. L. Shute and A. E. Badger. bibliog Am Cer Soc J 25:355-7 Ag 1 '42

Flow of gases in natural-draft furnaces; abstract. Gooding and Thring. Glass Ind 23:65 F '42

Fundamental studies of the melting process of glasses containing lead oxide; abstract. E. Preston and W. E. S. Turner. Am Cer Soc J 25 (Cer A 21):79 Ap 1 '42

Large plate glass melting furnace operates 905 days without shutdown; Ford furnace. il Cer Ind 38:30-2 Mr '42

Oxidation-reduction equilibria in glass between iron and selenium in several furnace atmospheres. F. Day, jr. and A. Silverman. bibliog diag Am Cer Soc J 25:371-81 S 1 '42

Volatilization of soda from soda-lime-silica glasses; a review. bibliog Glass Ind 23:23-4 Ja '42

GLASS patents. See Glass furnaces—Patents; Glass machinery—Patents; Glass manufacture—Patents

GLASS pipes. See Pipes, Glass

GLASS products

Glass products in construction. il Cer Ind 38:77-8 Ap '42

GLASS research

Development and testing of new glass at American optical company. il Glass Ind 23:140-2 Ap '42

Effect of barium oxide and zinc oxide on properties of soda-dolomite lime-silica glass. bibliog Am Cer Soc J 25:61-9 F 1 '42

Effect of iron oxide on properties of soda-dolomite lime-silica glass. Am Cer Soc J 25:401-8 O 1 '42; Abstracts. Glass Ind 23:182 My '42; Cer Ind 38:33-4 My '42

Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42

Fluorescence of manganese in glasses and crystals. S. H. Linwood and W. A. Weyl. bibliog Opt Soc Am J 32:443-53 Ag '42

Iron oxide in enamel glass as dissolved from the metal base. A. I. Andrews and H. R. Swift. il Am Cer Soc J 25:217-22 My 1 '42

Recent research on glass in Department of ceramic engineering; abstract. C. W. Parmelee and A. E. Badger. Glass Ind 22:515 D '41

Recent work on cords in glass. W. B. Silverman. Cer Ind 37:33-4 D '41; Abstract. Glass Ind 22:515 D '41

Report of American ceramic society committee on research for 1941-1942. Am Cer Soc Bul 21:93-4 Je 15 '42

Research digest. Glass Ind 23:31 Ja '42 [cont monthly]

Study of diffusion in glass; abstract. J. A. Pask and C. W. Parmelee. Cer Ind 38:34 My '42

Variation with temperature of the spectral transmission of glasses; transmission in the visual spectral region at temperatures from 20° to the softening point; abstract. A. J. Holland and W. E. S. Turner. Am Cer Soc Bul 21 (Cer A 21):142 Jl 15 '42

GLASS sand. See Sand

GLASS stones. See Glass—Stones

GLASS tanks

Assessment of performance of tank furnace for melting glass; abstract. Glass Ind 23:395 O '42

Elimination of batch dust. C. T. Frazier. il diag Cer Ind 37:36-7 D '41

How to get longer service from glasshouse refractories. bibliog il diags Cer Ind 37:36-7, 40-1, 44 O; 50, 52, 54-6 N; 58+ D '41; Excerpts (pt 2-3). Brick & Clay Rec 100:40, 42, 44+ Je '42

Instrumentation and control of glass tanks; abstract. J. R. Green. diags Cer Ind 38:41-2 My '42

Modern tank furnace design. S. R. Scholes. diag Cer Ind 37:39-40 D '41

Redshaw and Kutchka patents. diags Glass Ind 23:226, 264 Je-Jl '42

Regenerative glass tank; patent. diag Glass Ind 22:482 N '41

GLASS trade

See also
Owens-Illinois glass company

Statistics

Current statistical position of glass. Published in monthly numbers of Glass industry
Current statistical position of glass; production, twelve months, January through December. Glass Ind 23:66-7 F '42

Brazil

Glass production in Brazil. C. E. Nabuco de Araujo, jr. News Ed 19:1413 D 10 '41

Europe

European hollow glass; cartel in the form of compulsory marketing organisation. Economist 142:359 Mr 14 '42

Germany

Scarcity of materials has stimulated research in all branches of the German glass industry. Chem & Met Eng 48:144 N '41

Massachusetts

Cloth of glass; history of glass manufacture. S. Lanier. il Tech R 44:268-9+, 316-18+ Ap-My '42

Spain

News by commodities; manufacture of hollow white glass. For Comm W 5:25-6 N 22 '41

United States

Business as usual, but more of it. W. Gates. il Mag of Wall St 70:238-9+ Je 13 '42
Contrasts in the glass industry; containers and flat glass. Barron's 22:8 S 14 '42
Glass can do it. Business Week p47-9 Mr 21 '42
Glass companies in World war II. F. W. Gustafson. Barron's 22:9 Ja 19 '42
Glass industry; output expanded to meet demand and rearmament. Index 21 no 4:88-94 [D] '41
Glass makers sued as monopoly by Turner. Oil Paint & Drug Rep 141:68 Ap 27 '42

GLASS wool
Fire-proof; glass-wool checks spread of flames. Sci Am 165:337-8 D '41
Glass wool and fiber; patents. Published in monthly numbers of Glass industry
Glass wool ends noise problem in test cells for airplane engines. il Eng N 128:823 My 14 '42
Pyrex brand glass wool as a filtering medium. G. B. Heisig. Ind & Eng Chem Anal ed 14:766 S 15 '42

GLASSINE
Measurement of greaseproofness. E. A. Georgi and P. Nolan. il diags Paper Tr J 115:33-40 S 10 '42; Excerpts. Paper Ind 24: 430, 432 Jl '42

GLASSWARE
Big market for ceramic coated glass seen in new fluorescent fixtures. il Cer Ind 38:68, 70 Mr '42
Commercial art glass; original modern Czecho-Slovakian art creations. L. Moser. il Glass Ind 23:101-3 Mr '42
Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42
Modern fine glass. L. D. Skelley. 144p $1.98 Garden city pub. co, Garden City, N.Y. '42
New hard glass; American progress in laboratory ware. Chem Age (Lond) 46:221 Ap 25 '42
Recent work on cords in glass. W. B. Silverman. Cer Ind 37:33-4 D '41; Abstract. Glass Ind 22:515 D '41
Showroom requiring display of complete lines of glassware; Antonin Raymond, architect. il plan Arch Forum 75:348-9 N '41

See also
Chemical apparatus
Glass containers
Molds (for glass)
Optical instruments

Cleaning

Alkaline cleaning solution. S. Gaddis. J Chem Educ 19:368 Ag '42

Decoration

Effect of applied ceramic color on the strength of bottles. J. E. Ablard. Cer Ind 37:40+ D '41

Manufacture

War stimulates production of American made glass novelties; Marimac novelty company. il Glass Ind 22:480-1 N '41

See also
Glass containers—Manufacture

Testing

Decay of vibration phenomena of glass bars. J. G. McCann. il diags Am Cer Soc J 25: 409-13 O 1 '42
Methods of testing volumetric glassware. J. J. Moran. diags Am Soc T M Proc 41: 492-7 '41

GLASSWARE, Ancient
Amen glass to Metropolitan museum. il (cover) Glass Ind 22:516 D '41
Hunting scenes on Roman glass in the Rhineland. M. Ginsburg. (Univ. of Nebraska studies v.41,no.2) 31p bibliog(p25-31) pa 75c The univ, Lincoln, '41

GLASSY state
Basic principles involved in the glassy state. B. E. Warren. bibliog il diags J Ap Phys 13:602-10 O '42

See also
Vitrification

GLAUBER, Johann Rudolf, 1604-1670
Johann Rudolf Glauber; his chemical and human philosophy. E. V. Armstrong and C. K. Deischer. bibliog por J Chem Educ 19:3-8 Ja '42

GLAUBER salt. See Sodium sulfates

GLAZES
Albany slip glazes can meet needs of insulator industry. Cer Ind 39:50 Jl '42
Borax and boric acid in salt glazing. H. G. Schurecht and K. T. Wood. diag Brick & Clay Rec 100:36-8 My '42
Ceramic batches; collection of recipes. Cer Ind 38:138, 140, 142 Ja '42
Ceramic chemistry; glazing and decoration. A. B. Hollowood. Chem Age (Lond) 45:297-9 D 13 '41
Ceramic glazing of red-burning clay; abstract. M. Corbman. Brick & Clay Rec 100: 34-5 My '42
Construction of steatite; abstract. H. Thurnauer and A. R. Rodriguez. Cer Ind 38: 48 My '42
Development of leadless glazes containing fluorides. P. M. Corbett and N. J. Kreidl. bibliog Cer Ind 39:46, 48+ Ag; 64, 66, 68 S '42
Effect of furnace atmosphere on colors derived from chromic oxide. W. L. Peskin. bibliog il diag Am Cer Soc Bul 20:402-11 N '41
Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42
Effects of different kiln gases on the glost firing of ware. J. H. Koenig. bibliog (89 titles) Cer Ind 38:54-6, 58+ Je '42
Fitting of glazes to ceramic bodies; abstract. H. G. Schurecht. Cer Ind 38:51-2 My '42
Infra-red dries pottery glaze. il Elec W 117: 120 Ja 10 '42
Leadless glazes; abstract. R. J. Orlowski. Cer Ind 39:39 O '42
Literature abstracts of ceramic glazes. J. H. Koenig and W. H. Earhart. $3 Industrial publications, 59 E. Van Buren st, Chicago '42; Review. Cer Ind 39:46, 48 O '42
Low-cost glazes for structural clay products. R. T. Stull and P. V. Johnson. pl U S Nat Bur Stand Circ C436:1-20; pa 10c Supt. of doc. '42; Abstract. Brick & Clay Rec 101:20-1 D '42

GLAZES—*Continued*
Low-temperature vitreous bodies. C. J. Koenig. bibliog il Am Cer Soc J 25:230-6 My 1 '42
Specification for the measurement of the transmission of heat and light through heat-absorbing glasses employed for glazing purposes. Illum Eng 36:931-3 N '41
Study of glaze and body interface. C. W. Parmelee and P. E. Buckles. bibliog il Am Cer Soc J 25:11-15 Ja '42
Zirconium oxide and thorium oxide in ceramics. N. J. Kreidl. Am Cer Soc J 25:129-41 bibliog(p138-41) Mr 1 '42
See also
Enamel and enameling

GLEN Alden coal company
Fuel oil shortage helps coal companies. H. Lawrence. Barron's 22:20 Mr 2 '42
Stocks in a strong earnings position for 1942. Mag of Wall St 70:141-2 My 16 '42

GLENWOOD range company
Copper dilemma, range company's shutdown blamed on restriction order. Business Week p26+ N 29 '41

GLIDDEN company
Another look. il(p649) Mag of Wall St 70:650-1 O 3 '42
Refinancing program. Comm & Fin Chr 154:1148 N 22 '41

GLIDERS
After the war: air cargoes; glider trains operating on regular schedules. M. K. Powers. il Adv & Sell 35:22-3+ Jl '42
Army, CAA issue call for glider pilot volunteers. Civil Aero J 3:125-6 Je 15 '42
British glider training. il Aviation 41:203 S '42
Development of our army glider forces. D. H. Schlatter. il Aero Digest 41:101-2, 105 S '42
Ford motorless. il Business Week p15 N 7 '42
Glider instrumentation. R. S. Eikenberry. diag Instruments 15:312-13 Ag '42
Glider pick-up successful. il Aero Digest 41:304 Ag '42
Glider pickup will speed pilot training; use on future cargo trains is predicted. il Aviation 41:234 Ag '42
Gliders' chance; army to give air cargo tows full-scale test. Business Week p65 Jl 4 '42
Gliders joining the fight. il Aviation 41:101+ S '42
Nazis push glider output. For Comm W 8:20 S 5 '42
Power driven windmills for training glider pilots. il Power Pl Eng 45:52 D '41
Practical considerations on the use of cargo gliders. A. S. Ogden. il diags Aero Digest 41:139-40, 142 O '42
Troop-carrying glider. il Aero Digest 40:299 Ja '42; Same. Manuf Rec 111:31+ Ja '42

Manufacture

Hot wings and cold set resins. il Mod Plastics 20:52-5 S '42

GLIDING and soaring
Youth must fly; gliding and soaring for America. E. F. McDonald, jr. 221p $2.50 Harper '42

GLOBES
Globes of earth and sky. S. A. Ionides and M. L. Ionides. il map Comp Air M 47:6859-62 O '42

GLOBES, Astronomical
Globes of earth and sky. S. A. Ionides and M. L. Ionides. il map Comp Air M 47:6859-62 O '42

GLOBULINS
Amino acid composition of cottonseed globulin preparations. T. D. Fontaine, H. S. Olcott and A. Lowy. bibliog Ind & Eng Chem 34:116-18 Ja '42
Hydration of β-lactoglobulin crystals. T. L. McMeekin and R. C. Warner. bibliog Am Chem Soc J 64:2393-8 O '42
New clotting globulin. Chem & Eng N 20:559 Ap 25 '42
Production of a pressor substance from serum globulin by action of pepsin. C. J. Weber, R. H. Major and D. Lobb. Science 96:44-5 Jl 10 '42
Ultracentrifugal analysis of pepsin-treated serum globulins. M. L. Petermann. bibliog J Phys Chem 46:183-91 Ja '42
X-ray and optic measurements on β-lactoglobulin. I. Fankuchen. Am Chem Soc J 64:2504-5 O '42

GLOSS meters
ASTM test: mar resistance of plastics. diags Mod Plastics 20:84-5+ S '42
Mar resistance of plastics. L. Boor. bibliog il Mod Plastics 20:79-83 S '42

GLOUCESTER, Massachusetts
Gloucester high school; views, plans and construction outline. Arch Forum 76:169-72 Mr '42

GLOVE factories

Employees

Wages and hours in the glove industry, 1941. E. B. Morris and E. M. Bunn. Monthly Labor R 54:711-36 Mr '42

GLOVE workers
Wages and hours in the glove industry, 1941; factory, office, and home workers. E. B. Morris and E. M. Bunn. Monthly Labor R 54:711-36 Mr '42

GLOVER, James Waterman, 1868-1941
Sketch. C. C. Craig. Am Statis Assn J 37:116 Mr '42

GLOVERSVILLE, New York
National defense council at Gloversville, N.Y. R. M. Colt. Am Water Works Assn J 33:1869-74 N '41

GLOVES
Oil proof aprons and gloves find many uses. il Sci Am 167:32-3 Jl '42
Plastics competition award to Louise Sanders; plastic trim of Tenite II. il Mod Plastics 19:156-7 N '41
Promotion finesse that keeps fashion buyers coming back for more; Daniel Hays gloves. il Sales Management 50:50, 54-5 F 15 '42

Cleaning

Soaps for glove cleaning. P. I. Smith. Soap & San Chem 18:23-4 O '42

GLOVES, Rubber
Blower device dries 200 gloves an hour. il Elec W 116:1586 N 15 '41
Is your glove life-line too short? il Safety Eng 84:9-11 O '42
Man-made safety; synthetic rubber gloves. il Safety Eng 84:32 O '42
Patch in time; linemen's protective equipment must be conserved; gloves, sleeves and blankets can be repaired. C. A. Coutts. il Nat Safety N 45:26-7+ My '42

GLUCINUM. See Beryllium

GLUCOHEPTULOSE
Oxidative degradation of L-glucoheptulose. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1609-11 Jl '42
Some studies on L-glucoheptulose. W. D. Maclay, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1606-9 Jl '42

GLUCONIC acid
O-pentaacetyl-*d*-gluconates of polyhydric alcohols and cellulose. M. L. Wolfrom and P. W. Morgan. Am Chem Soc J 64:2026-8 S '42
Oxidative degradation of L-glucoheptulose. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1609-11 Jl '42

GLUCONONITRILES
Absorption spectra and the X-ray examination of the isomeric glucon准nitriles. P. E. Papadakis. bibliog Am Chem Soc J 64:1950-3 Ag '42

GLUCOPYRANOSE phosphate
β-Form of the Cori ester (*d*-glucopyranose 1-phosphate). M. L. Wolfrom and others. bibliog Am Chem Soc J 64:23-6 Ja '42

GLUCOSAMINE
Nature of the carbohydrate residue in ovomucoid; hydrolysis of the methylated carbohydrate residue. M. Stacey and J. M. Woolley. Chem Soc J p550-5 S '42

GLUCOSE

Anti-bacterial substances from moulds; some observations on the bacteriostatic powers of the mould products citrinin and penicillic acid. A. E. Oxford. Chem & Ind 61:48-51 Ja 24 '42

F.T.C. hits glucose marketing scheme. Oil Paint & Drug Rep 141:7+ Mr 30 '42

Industrial uses of chemicals. Oil Paint & Drug Rep 141:38 Ap 27; 66 My 4; 38 My 11 '42

Mutarotation of glucose in water-methanol mixtures. H. E. Dyas and D. G. Hill. bibliog Am Chem Soc J 64:236-40 F '42

Rates of reaction of diacetone glucose, diacetone galactose and diacetone sorbose with *p*-toluenesulfonyl chloride in pyridine solution. R. C. Hockett and M. L. Downing. Am Chem Soc J 64:2463-4 O '42

Synthesis of some new glucose and gentiobiose derivatives. D. D. Reynolds and W. O. Kenyon. Am Chem Soc J 64:1110-12 My '42

Transformation of tetramethylglucoseen-1,2 into 5-(methoxymethyl)-2-furaldehyde. M. L. Wolfrom, E. G. Wallace and E. A. Metcalf. bibliog Am Chem Soc J 64:265-9 F '42

See also
Dextrose

Prices

F.T.C. order hits glucose pricing. Oil Paint & Drug Rep 141:4+ Je 22 '42

GLUCOSE phosphates

β-Form of the Cori ester (*d*-glucopyranose 1-phosphate). M. L. Wolfrom and others. bibliog Am Chem Soc J 64:23-6 Ja '42

GLUCOSIDES

Action of almond emulsin on populin and on phenyl 2,4,6-trimethyl-β-D-glucoside. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:374-5 F '42

Constitution of purine nucleosides; a new synthesis of xanthine and attempted syntheses of xanthine glucosides from glyoxalines. W. E. Allsebrook, J. M. Gulland and L. F. Story. Chem Soc J p232-6 Ap '42

Influence of structural changes in the aglucons on the enzymic hydrolysis of alkyl β-D-glucosides. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:369-74 F '42

Preparation of new glycosides; direct alcoholysis of starch. S. M. Cantor. Chem Age (Lond) 45:213 O 18 '41

Rotational relationships of alkyl glucosides. L. C. Kreider and E. Friesen. Am Chem Soc J 64:1482-3 Je '42

Studies on lignin and related compounds; synthesis and properties of glycosides related to lignin. J. H. Fisher, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 63:3031-5 N '41

Studies on reactions relating to carbohydrates and polysaccharides; an improved technique for the fractionation of partially methylated glucosides. I. Levi, W. L. Hawkins and H. Hibbert. bibliog diag Am Chem Soc J 64:1957-9 Ag '42

Studies on reactions relating to carbohydrates and polysaccharides; structure of the dextran synthesized by the action of leuconostoc mesenteroides on sucrose. I. Levi, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 64:1959-62 Ag '42

Synthesis of β-2-chloroethylgentiobioside and β-2-chloroethylprimeveroside acetates. L. P. Miller. bibliog Am Chem Soc J 63:3342-3 D '41

Synthesis of phenolic glycosides. T. H. Bembry and G. Powell. Am Chem Soc J 64:2419-20 O '42

Tetraacetyl-β-glucoside of desoxycorticosterone. W. S. Johnson. Am Chem Soc J 63:3238-9 N '41

See also
Saponins

GLUCOSYL halides

Sugar acetates, acetylglycosyl halides, and orthoacetates in relation to the Walden inversion. H. L. Frush and H. S. Isbell. bibliog pl J Research Nat Bur Stand 27:413-28 N '41

GLUE

Adhesives industry is modernized. M. H. Bigelow. il Chem & Met Eng 49:120-4 F '42

Chemical factors involved in the glueing of wood with cold-setting urea/formaldehyde resins; abstract and discussion. W. G. Campbell. Chem & Ind 61:161-2 Ap 4 '42

Cold weather hints for cold water glues. E. E. Decker. Am Bld 64:89-90 Mr '42

Construction glue for wooden columns. il Am Bld 64:92-3 Mr '42

Flexible glues for bookbinding. M. S. Kantrowitz, E. W. Spencer and F. R. Blaylock. (Tech. bul. 24) 18p U.S. Govt. ptg. office, Division of tests and technical control, Washington '41

Hide glue for tub sizing. O. V. Simonson. Paper Tr J 115:27-8 O 29 '42; Excerpts. Paper Ind 24:748+ O '42

Results of comparative shear tests on resin plastics and case in glue bondings; table. H. N. Haut. Aviation 41:105 Ap '42

Sorbitol in glue coatings; abstract. H. C. Speel. Chem & Met Eng 49:175-6 F '42

Tests of glued laminated wood beams impregnated with creosote. W. A. Oliver. il Am Soc T M Proc 41:1198-1211; Discussion. 1212-13 '41

Use of glue in wooden aircraft. J. G. MacDermot. Aero Digest 41:186+ Jl '42

Watertight sealing glue. il Mod Packaging 16:68+ S '42

When is plastic a glue? confusion of terms. Sci Am 166:190+ Ap '42

See also
Adhesives
Mucilage

GLUSIDE. See Saccharin

GLUTAMIC acid

Optical configuration of glutamic acid isolated from casein hydrolyzates by six procedures. J. C. Opsahl and L. E. Arnow. bibliog Am Chem Soc J 64:2035-9 S '42

Preparation of γ-alkylamides of glutamic acid. N. Lichtenstein. Am Chem Soc J 64:1021-2 My '42

GLUTAMINE

Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

GLUTARIC acid

Analysis

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

GLUTATHIONE

Absorption of oxygen by glutathione in alkaline solutions; kinetics of the reaction at *p*H 9 to 11. M. B. Young and H. A. Young. bibliog Am Chem Soc J 64:2282-7 O '42

GLUTEN

Changes in the physical properties of gluten with aging of flour; abstract. J. D. McKaig and A. G. McCalla. Food Ind 14:101 My '42

Gluten meal in paper making. C. W. Stewart. Chem Age (Lond) 45:212 O 18 '41

Polarimetric determination of starch in cereal products; abstract. K. A. Clendenning. Food Ind 14:107 N '42

GLYCERIDES

Approximate computation of mixed glycerides present in natural fats from the proportions of their component fatty acids. T. P. Hilditch and M. L. Meara. bibliog Soc Chem Ind J 61:117-25 Ag '42

Component glycerides of linseed oil; segregation by chromatography. F. T. Walker and M. R. Mills. bibliog diag Soc Chem Ind J 61:125-8 Ag '42

Fatty acids and glycerides of solid seed fats; Shorea robusta kernal fat. T. P. Hilditch and Y. A. H. Zaky. Soc Chem Ind J 61:34-6 F '42

GLYCERIDES—*Continued*

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38: 891-930 O '42

Mixed unsaturated glycerides of liquid fats; low-temperature crystallisation of olive oil. T. P. Hilditch and L. Maddison. Soc Chem Ind J 60:258-62 O '41

Optically active α,β-diglycerides. J. C. Sowden and H. O. L. Fischer. bibliog Am Chem Soc J 63:3244-8 D '41

GLYCERIN

Association of American soap and glycerine producers 15th annual meeting, New York. Soap & San Chem 18:30-1+ F '42

Ester gums from rosin and modified rosins. W. D. Pohle and W. C. Smith. bibliog Ind & Eng Chem 34:849-52 Jl '42

Fats and oils: there's time to do a job; intelligent rationing, planned conservation can head off grave scarcities. il Fortune 25:68-71+ Ap '42

Glycerine from potash soaps? Soap & San Chem 18:57-8 F '42

Glycerine helps preserve rubber. India Rubber W 106:465 Ag '42

Glycerine in newer textile developments. G. Leffingwell and M. A. Lesser. bibliog Rayon 23:550-1 S '42

Glycerin, indirect product of petroleum. W. L. Nelson. Oil & Gas J 41:44 Ag 27 '42

Glycerin, its compounds and uses. B. Levitt. flow sheet il Chem Ind 50:34-7 Ja '42

Glycerin production; U.S. patent 2,275,639; abstract. Food Ind 14:108 S '42

Glycerine; recovery and refining in modern soap plant practice. J. W. McCutcheon. bibliog il Soap & San Chem 17:24-8+ N; 34-7+ D '41; 18:27-30+ Ja '42

Glycerine supply vital; abstract. G. A. Wrisley. Soap & San Chem 18:41 N '42

High-temperature saponification; an anhydrous system. J. J. Jacobs, jr. bibliog diag Ind & Eng Chem 34:322-6 Mr '42

Need for even greater quantities of glycerine for production of nitroglycerine will spur output of soap. Chem Ind 50:368-9 Mr '42

Organic solvents; polyhydric alcohols; amine compounds; chlorethylenes. S. Yates. Textile Col 64:199 Ap '42

Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42

Saving glycerin. Business Week p53-4 D 27 '41

Soap and glycerol. F. D. Snell. il J Chem Educ 19:172-80 Ap '42

Soap, glycerin industry advisory group formed. Oil Paint & Drug Rep 141:7 F 9 '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

War rules on soap; glycerin becomes main show. Business Week p16 F 14 '42

Manufacture

Modern soap and glycerine making; Manhattan soap co. J. A. Lee. flow chart(p150-3) il Chem & Met Eng 49:125-8 My '42; Abstract. Soap & San Chem 18:61 Jl '42

New soap process; saponification via methylation of fat with high direct glycerine recovery; new patent. G. B. Bradshaw. flow sheets Soap & San Chem 18:23-4, 69-70 My '42

Prices

Price schedule. Iron Age 149:144 Ja 1 '42

GLYCERIN, Substitutes for

Glycerine substitutes; abstract. C. Bauschinger. Soap & San Chem 18:63 Jl '42

GLYCEROL. See Glycerin

GLYCERYL monostearate

Effect of glyceryl monostearate on the baking properties of cakes; abstract. R. Daum, E. G. Halliday and W. F. Hinman. Food Ind 14:113 O '42

GLYCIDOL

l-Glycidol. J. C. Sowden and H. O. L. Fischer. bibliog Am Chem Soc J 64:1291-3 Je '42

GLYCINE

Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

Apparent molal heat capacities and volumes of the amino acids and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42

Bis(amino acid) derivatives; diglycine halogen acid addition products. W. S. Frost. Am Chem Soc J 64:1286-7 Je '42

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Dielectric investigation of polypeptides; the dispersion of simple amino acid polypeptides. W. P. Conner and C. P. Smyth. bibliog diag Am Chem Soc J 64:1870-8 Ag '42

Improved procedure for the preparation of glycine. W. C. Tobie and G. B. Ayres. Am Chem Soc J 64:725 Mr '42

Interaction of ions and dipolar ions; solubility of thallous salts in glycine and in alanine solutions. R. M. Keefer and H. G. Reiber. bibliog Am Chem Soc J 63:3504-7 D '41

Poly-condensation of α-amino acid esters; poly-condensation of glycine esters. M. Frankel and E. Katchalski. bibliog Am Chem Soc J 64:2264-8 O '42

Primary gaseous products of carbonisation. K. Bolton and others. Chem Soc J p252-63 Ap '42

Analysis

Preparation of a solution of *o*-phthalaldehyde for use as a glycine reagent. W. M. Sandstrom and H. A. Lillevik. bibliog Ind & Eng Chem Anal ed 13:781 N 15 '41

GLYCININ

Determination of soybean flour in sausages and other meat products; a protein separation method. J. Bailey. bibliog(71 references) Ind & Eng Chem Anal ed 14:776-81 O 15 '42

GLYCOGEN

Particulate glycogen. A. Lazarow. Science 95: 49 Ja 9 '42

Some physical chemical characteristics of glycogen. W. B. Bridgman. bibliog Am Chem Soc J 64:2349-56 O '42

GLYCOGENOLYSIS

Phosphorylative glycogenolysis and calcification in cartilage. A. B. Gutman, F. B. Warrick and E. B. Gutman. bibliog Science 95:461-2 My 1 '42

GLYCOL

Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42

Kinetics of the periodate oxidation of 1,2-glycols; ethylene glycol, pinacol and *cis*-and *trans*-cyclohexene glycols. C. C. Price and M. Knell. Am Chem Soc J 64:552-4 Mr '42

GLYCOLALDEHYDE

Structure of glycolaldehyde dimer. R. K. Summerbell and L. K. Rochen. bibliog Am Chem Soc J 63:3241-4 D '41

GLYCOLAMIDE

Apparent molal heat capacities and volumes of the amino acids and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42

GLYCOLIC acid

Iodinated organic compounds as contrast media for radiographic diagnoses; iodinated aracyl esters. W. H. Strain, J. T. Plati and S. L. Warren. bibliog Am Chem Soc J 64: 1436-40 Je '42

GLYCOLS

Action of sodium on hexamethylacetone. P. G. Stevens and J. H. Mowat. bibliog Am Chem Soc J 64:554-6 Mr '42

Castor oil base hydraulic fluids; glycols reduce the attack on rubber. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Kinetics of the periodate oxidation of 1,2-glycols; ethylene glycol, pinacol and *cis*- and *trans*-cyclohexene glycols. C. C. Price and M. Knell. Am Chem Soc J 64:552-4 Mr '42

Organic solvents; polyhydric alcohols; amine compounds; chlorethylenes. S. Yates. Textile Col 64:199-200 Ap '42

GLYCOSIDES. See Glucosides

GLYCYLGLYCINE

Crystal structure of β-glycylglycine. E. W. Hughes and W. J. Moore. Am Chem Soc J 64:2236-7 S '42

GLYCYRRHETIC acid

Sapogenins; the constitution of glycyrrhetic acid and its relation to oleanolic acid. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p535-9 S '42

GLYOXAL

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

GLYOXALINE. See Imidazole

GOATS

Improved milk goats; a guide for breeders, dairymen and exhibitors. W. L. TeWalt. 145p $1.50 Orange Judd pub. co, New York '42

GOAT'S milk. See Milk, Goat's

GOBLETS. See Drinking vessels

GOGGLES

Anti-glare welding goggles; eliminates glare from aluminum welding operations. il Aero Digest 40:122+ Je '42

Effective program for saving eyes; General electric company. J. E. Mercure. il Steel 111:64-5+ S 21 '42

Eye protection. il Nat Safety N 45:18-19+ Mr '42

Eyes right. J. A. Haller. il Safety Eng 83:9-10+ Je '42

Give goggles a chance. H. T. Dean. il Nat Safety N 46:20-1, 60 S '42

Goggles Guilbert; a crusader for eyesight conservation; Pullman company. E. M. Stern. Nat Safety N 45:20, 56+ Ap '42

Goggles in cellophane; safety equipment is sterilized; General electric company. M. C. Goodspeed. il Factory Management 100:80 Ja '42

Hey, goggles! how worker feels about wearing goggles and how it affects his work. E. Mikis. Safety Eng 82:27-8 N '41

New lenses eliminate glare in welding aluminum. il Iron Age 150:62C Jl 30 '42

Night vision goggles. il Mod Plastics 19:55 Je '42

Plastic polaroid goggles help a pilot's eyes get used to the dark. Science 95:sup 12 Ap 3 '42

Sold at the start; new employees learn the value of personal protection; Hawthorne works of Western electric company. il Nat Safety N 45:8-9+ Mr '42

Spectacle-type goggles. il Blast F & Steel Pl 29:1240-1 D '41

GOLD

Gold and silver in wartime. J. S. Shell. il Metals & Alloys 15:236-40 F '42

Intermediate colloid state in the formation of gold and platinum ions. C. G. Fink. bibliog J Phys Chem 46:76-81 Ja '42

New classifications in the spectra of Au I and Au II. J. R. Platt and R. A. Sawyer. bibliog Phys R 60:866-76 D 15 '41

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

Reproducible contact angles on reproducible metal surfaces; contact angles of water against silver and gold. F. E. Bartell and P. H. Cardwell. bibliog il diags Am Chem Soc J 64:494-7 Mr '42

Reproducible contact angles on reproducible metal surfaces; interfacial contact angles between water and organic liquids on surfaces of silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1530-4 Jl '42

Resonance absorption of neutrons in rhodium, antimony, and gold. H. Feeny, C. Lapointe and F. Rasetti. bibliog Phys R 61:469-75 Ap 1 '42

See also

Gold as money
Gold dredging
Gold metallurgy
Gold mines and mining
Gold ores

Analysis

Determination of small amounts of gold with stannous chloride. C. G. Fink and G. L. Putnam. bibliog Ind & Eng Chem Anal ed 14:468-70 Je 15 '42

Rapid detection of gold by the electrographic method. J. A. Calamari, R. Hubata and P. B. Roth. bibliog Ind & Eng Chem Anal ed 14:535 Jl 15 '42

Industrial applications

Gold and its scope in industry. E. Downs. Chem & Ind 61:156-9 Ap 4 '42; Abstract. Chem Age (Lond) 46:229 My 2 '42; Discussion. Chem & Ind 61:159-60 Ap 4 '42

Isotopes

Nuclear excitations resulting from radioactive decay. E. H. Plesset. bibliog il Phys R 62:181-6 S 1 '42

Statistics

Gold movements to and from the United States, yearly 1934-1940, monthly Oct. 1940-Oct. 1941. Fed Res Bul 28:77 Ja '42 [cont monthly]

Gold, 1941. Eng & Min J 143:54-6 F '42

Gold production, outside U.S.S.R. 1934-1940 and monthly Sept. 1940-Oct. 1941. Fed Res Bul 28:77 Ja '42 [cont monthly]

Movement of gold to and from United States, Sept. and Oct. 1941 and Jan.-Oct. 1941. Fed Res Bul 28:36 Ja '42 [cont monthly]

U.S. production of gold and silver in 1941; tabulation. Eng & Min J 143:101 F '42

Therapeutic use

Toxic reactions and death following gold therapy in chronic arthritis. R. G. Snyder, C. H. Traeger and W. H. Squires. il Ind Med 11:425-9 S '42

GOLD, Filled

Highlights in making gold filled metal for spectacles; illustrated description. W. J. Wrighton. Metals & Alloys 14:868-75 D '41

GOLD alloys

Diffusion theory of the codeposition of gold and copper. M. Dole. Electrochem Soc Trans 82 (preprint 15):145-59 O '42

Ferromagnetic gold-iron alloys. S. T. Pan, A. R. Kaufmann and F. Bitter. il J Chem Phys 10:318-21 Je '42

Gold and silver in wartime. J. S. Shell. il Metals & Alloys 15:236-40 F '42

Order in the alloy Cu_3Au. L. H. Germer, F. E. Haworth and J. J. Lander. il Phys R 61:93 Ja 1 '42

Order in the alloy Cu_3Au; electron diffraction by transmission method used to investigate superstructure. L. H. Germer, F. E. Haworth and J. J. Lander. il diags Phys R 61:614-26 My 1 '42

GOLD as money

Dr. Palyi on the meaning of the gold standard. W. A. Brown, jr. J Business 14:419-23; England versus gold; a rejoinder. M. Palyi. 423-6 O '41

GOLD as money—*Continued*
Future of gold. Bankers M 145:77 Jl '42
Future of gold. J. P. de Wet. Can Min J 63: 364-7 Je '42
Future of the gold standard. W. Redelmeier. Bankers M 143:477-84 D '41
Gold and capital movements, 1941. Survey of Cur Business 22:51-3 F '42
Gold in the new world order. L. Stern. il Mag of Wall St 69:646-8+ Mr 21 '42
Gold reserves of central banks and governments, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:76 Ja '42 [cont monthly]
Gold standard war; abstract. G. G. Complin. Steel 111:50 O 19 '42
See also
Money

History

What price gold? ten thousand years of history indicates no loss of value after war. H. M. Lewers. il Min & Met 23:551-3 N '42

Great Britain

Sees no British return to gold standard. J. A. Simon. Comm & Fin Chr 156:374 Jl 30 '42

Switzerland

Ban on Swiss gold arbitrage. Economist 143: 244 Ag 22 '42

United States

Analysis of changes in gold stock of United States, 1934-40 and monthly July 1940-Nov. 1941. Fed Res Bul 28:36 Ja '42 [cont monthly]

GOLD beating. See Gold leaf

GOLD chlorides
Chemistry of vitamin E; the amperometric titration of α-tocopherol with auric chloride at the dropping mercury electrode. L. I. Smith, I. M. Kolthoff and L. J. Spillane. bibliog Am Chem Soc J 64:646-8 Mr '42

GOLD dredging
Bucket line dredge methods. N. Cleaveland. il Min Cong J 27:19-22 N '41
Coco Grove dredges have interesting features. G. R. Johnson. il Eng & Min J 143:59-61 Ap '42
Dragline dredge methods and equipment; with cost data. H. S. Lord. il Min Cong J 27:38-41 D '41

GOLD leaf
Gold beaters' art; pictorial presentation. E. Rudloff. Metals & Alloys 16:56-9 Jl '42

GOLD metallurgy
At the Cochenour Willans mill; amalgamation, cyanidation, and flotation. O. Mathews. flow sheets il Eng & Min J 143: 45-8 Mr '42
Basic theory of the cyanide process. D. C. McLaren. Can Min J 63:570-7 S '42
Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42
Cyaniding flotation concentrates at the Batong-Buhay gold mine. R. F. Brown. flow sheet il Eng & Min J 143:49-52 Jl '42
Filtering cyanide slimes. E. C. Bitzer. diags Eng & Min J 143:60-3 Je '42
Grinding progress in Canadian gold plants. H. Hanson. Eng & Min J 143:63-4 My '42
Lode gold mine in Colombia. F. K. Wilson and B. F. Darnell. flow sheet il Eng & Min J 143:58-62 My '42
Open-pit gold mine in Nevada. J. B. Huttl. flow sheet il Eng & Min J 142:58-9 D '41
Ore treatment and costs at McMarmac Red Lake gold mines limited. J. E. Bryans. flow sheet il Can Min J 63:423-33 Jl '42
Precipitation of gold from cyanide solution by zinc dust. R. Leblanc. bibliog diags Can Min J 63:213-19, 297-306, 371-9 Ap-Je '42
Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42
Progress reports, Metallurgical division; Precious metals section. R. S. Dean. U S Bur Mines Rep of Invest 3600:63-70 '41
Refining gold precipitate containing copper; abstract. A. Fraser. Chem Ind 51:614 O '42
Roasting improves gold recovery at Getchell mine. F. Wise. flow sheet il Min Cong J 28:48-51 Ap '42
See also
Cyanide plants

GOLD miners
Gold mines to close: miners to war work. Comm & Fin Chr 156:1437 O 22 '42

Canada

Gold mine crisis; Ottawa seeks to avert shutdown. Business Week p67-8 N 22 '41
Labour situation at Kirkland lake. Can Min J 62:774-80 N '41

GOLD mines and mining
Filling mine stopes with mill tailings. C. W. Plumb. diags Min Cong J 28:12-14 Ja '42
Gold, 1941. Eng & Min J 143:54-6 F '42
Gold's brushoff; WPB order halting production of gold for the duration. il Business Week p32+ O 17 '42
What to do with gold shares? Mag of Wall St 71:34 O 17 '42
See also
Gold dredging

History

Gold digging of British Columbia. T. A. Rickard. bibliog il map Can Min J 63:640-6 O '42

Placer mining

Mining tour of South America; gold mining in Colombia. J. B. Huttl. il Eng & Min J 143:50-1 Je '42
Placer mining. J. H. Robertson. diags Can Min J 63:10-14 Ja '42
Placer valuation in Alaska. L. C. Doheny. il Eng & Min J 142:47-9 D '41; 143:43-4 Ja; 48-9 Mr '42
Problems in present-day hydraulicking. J. P. Hutchins. il Min Cong J 28:20-4 Mr '42
Some unique dump-truck placer in Colorado. H. W. C. Prommel. il Eng & Min J 143: 48-9 Ja '42
Tertiary deposits of the Eagle-Circle district, Alaska. J. B. Mertie, jr. pl map U S Geol S Bul 917-D:213-64; pa 15c Supt. of doc. '42
See also
Gold dredging

Securities

Are Canadian gold stocks attractive today? J. D. Weiss. Barron's 22:20 S 14 '42

Alaska

Mineral industry of Alaska in 1939. P. S. Smith. fold map U S Geol S Bul 926-A:1-106; pa 20c Supt. of doc. '41
Mineral industry of Alaska in 1940. P. S. Smith. pl U S Geol S Bul 933-A:1-102; pa 35c Supt. of doc. '42
Past lode-gold production from Alaska. P. S. Smith. U S Geol S Bul 917-C:159-212; pa 10c Supt. of doc. '41
Placer valuation in Alaska. L. C. Doheny. il Eng & Min J 142:47-9 D '41; 143:43-4 Ja; 48-9 Mr '42
Tertiary deposits of the Eagle-Circle district. J. B. Mertie, jr. pl map U S Geol S Bul 917-D:213-64; pa 15c Supt. of doc. '42

Australia

Australia, 1941. P. G. Tait. il Eng & Min J 143:70-2 F '42
Refining gold precipitate containing copper; abstract. A. Fraser. Chem Ind 51:614 O '42

British Columbia

British Columbia mining in 1941. H. G. Nichols. il Can Min J 63:90-2 F '42
Gold digging of British Columbia; history. T. A. Rickard. bibliog il map Can Min J 63:640-6 O '42

GOLD mines and mining—*Continued*

California

Giants work; hydraulic mining in California; use of blasting. F. L. Elam. il Explosives Eng 20:15-18 Ja '42
Glum gold miners. Business Week p37 Ap 18 '42

Canada

Are Canadian gold stocks attractive today? J. D. Weiss. Barron's 22:20 S 14 '42
Canada, 1941. H. B. DeMille. Eng & Min J 143:61-3+ F '42
Gold mining and the national economy. R. C. Rowe. il Can Min J 63:76-9 F '42
Summary review of the gold mining industry in Canada, 1941. 66p, 8p pa 50c Canada. Dominion bur. of statistics, Ottawa '42
Threats to Canadian gold mining. Barron's 21:8 D 8 '41

See also
Gold miners—Canada

Central America

Central America, 1941. J. B. Huttl. Eng & Min J 143:69 F '42

Colombia

Colombia, important gold and platinum producer. A. Meyer. il map Min & Met 23: 383-6 Jl '42
Colombia; systematic survey needed to determine mineral resources and stimulate search for metals other than gold. A. Echeverri Villa. il map Eng & Min J 143: 109-11 Ag '42
Lode gold mine in Colombia. F. K. Wilson and B. F. Darnell. il diag Eng & Min J 143:62-6 Ap; 58-62 My '42
Mining tour of South America; gold mining in Colombia. J. B. Huttl. il Eng & Min J 143: 50-1 Je '42

Colorado

Some unique dump-truck placers in Colorado. H. W. C. Prommel. il Eng & Min J 143:48-9 Ja '42

Fiji Islands

Fiji gold. J. Cramer-Roberts. il map Comp Air M 47:6635-40 Ja '42

Gold Coast, Africa

Ashanti goldfields corporation; Bibiani (1927) annual general meetings, London. Economist 142:518-20 Ap 11 '42

Idaho

Mining and milling methods and costs at the Yellow Pine mine, Stibnite, Idaho. J. D. Bradley. flow sheet U S Bur Mines Information Circ 7194:1-12 '42

Manitoba

Mining in Manitoba during 1941. J. P. de Wet. il Can Min J 63:93-8 F '42

Nevada

Investigation as to the presence of commercial quantities of mercury and gold in the dry lakes of Nevada. J. A. Carpenter. (Geology and mining ser. 35) 22p 25c Univ. of Nevada, Reno '41
Open-pit gold mine in Nevada. J. B. Huttl. flow sheet il Eng & Min J 142:58-9 D '41
Roasting improves gold recovery at Getchell mine. F. Wise. flow sheet il Min Cong J 28:48-51 Ap '42

New Guinea

Engineer in the East Indies; gold in New Guinea. C. A. M. Smith. Engineer 173:260-1 Mr 27 '42

Nicaragua

Nicaragua; gold is historically the basis of the mining industry. F. Kettel. il map Eng & Min J 143:114-15 Ag '42

Northwest Territories, Canada

Quartz mining regulations in Yellowknife. J. M. McMeekan. il Can Min J 62:827-34 D '41

Ontario

Ore treatment and costs at McMarmac Red Lake gold mines limited. J. E. Bryans. flow sheet il Can Min J 63:423-33 Jl '42

Philippine Islands

Air freighting at Davao gold mines. A. H. Shoemaker. il Min Cong J 28:25-7+ Mr '42
Coco Grove dredges have interesting features. G. R. Johnson. il Eng & Min J 143:59-61 Ap '42
Cyaniding flotation concentrates at the Batong-Buhay gold mine. R. F. Brown. flow sheet il Eng & Min J 143:49-52 Jl '42
Shaft-sinking job in the Philippines. J. C. Alexander. il Eng & Min J 143:58 Ap '42

Quebec

Geology of the Powell mine; Noranda-Rouyn area. R. C. McMurchy. diags Eng & Min J 142:47-9 N '41
Mining at the Belleterre Quebec mine; stoping methods have been adapted to conditions. E. Bérubé. plans Can Min J 63:434-6 Jl '42

South Africa

Future of South African gold-mining industry. J. C. A. Meyer. Engineer 172:353 N 21 '41

See also
Gold mines and mining—Transvaal

South Dakota

Effect of gold mines closing on South Dakota's economy. Comm & Fin Chr 156:1432 O 22 '42

Transvaal

Consolidated Gold Fields; report for year to June 30. Economist 141:660 N 29 '41
Consolidated Gold Fields results. Economist 142:837-8 Je 13 '42
First Kaffir dividends. Economist 141:759 D 20 '41
Investigation into the permissible load-carrying capacity of steel wire ropes for hoisting with special reference to deep-level winding on the Witwatersrand goldfields. J. J. P. Dolan and W. G. Jackson. bibliog diag Inst Mech Eng J & Proc 142:Proc 225-60 Ja '40; Discussion. il 146:Proc 20-32 N '41
Nourse mines, Modderfontein East, Blyvooruitzicht gold mining company, New Modderfontein gold mining company annual general meetings, Johannesburg. Economist 141:669-70 N 29 '41
Rand mines, limited, annual meeting, Johannesburg. Economist 142:774 My 30 '42
South Africa, 1941. S. N. Hoffenburg. Eng & Min J 143:73-4 F '42

United States

Gold mines to close: miners to war work. Comm & Fin Chr 156:1437 O 22 '42
If gold mines are closed down. Barron's 22:12 O 5 '42

Venezuela

Venezuelan gold from El Callao. N. B. Knox. il diags map Eng & Min J 143:52-5 Mr '42; Discussion. 143:73+ Je '42

GOLD ores

Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42
Exploration possibilities in the Cadillac-Malartic district. G. F. Flaherty. maps Can Min J 63:283-9 My '42
Geology of the Powell mine; Noranda-Rouyn area. R. C. McMurchy. diags Eng & Min J 142:47-9 N '41
Gold mineralization in minor igneous intrusions. W. W. Moorhouse. bibliog diag map Econ Geol 37:318-29 Je '42
Host-rock inflation by veins and dikes at Grass Valley, California. R. Farmin. il Econ Geol 36:143-74 Mr '41; Discussion. 36:751-6; 37:238-42 N '41, My '42
Mammoth-St Anthony's complex operations; gold, silver, lead, molybdenum, and vanadium recovered from low-grade gold ore. J. B. Huttl. flow sheets il diag Eng & Min J 142:42-5 D '41

GOLD ores—*Continued*

Nickel-gold deposit near Mount Vernon, Skagit county, Washington. S. W. Hobbs and W. T. Pecora. il fold maps U S Geol S Bul 931-D:57-78; pa 15c Supt. of doc. '41

Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42

Progress reports, Metallurgical division; Precious metals section. R. S. Dean. U S Bur Mines Rep of Invest 3600:63-70 '41

GOLD plating

Diffusion theory of the codeposition of gold and copper. M. Dole. Electrochem Soc Trans 82 (preprint 15):145-59 O '42

GOLD standard. See Gold as money

GOLDSTONE, Frank, 1899-

Sketch. por Explosives Eng 20:156-7 Je '42

GOLF balls

Golf balls to be recovered for further use. Sci Am 166:295 Je '42

Renew golf balls. il Business Week p54+ Ap 11 '42

GOLF clubs

No more golf clubs: WPB. Comm & Fin Chr 155:1617 Ap 23 '42

GOMPERTZ function

Fitting the exponential function and the Gompertz function by the method of least squares. P. M. Stoner. Am Statis Assn J 36:515-18 D '41

GONADOTROPIC hormones. See Hormones

GONIOREFLECTOMETER. See Reflectometers

GOOD will (in business)

Salesman's job is important as ever. C. L. Wilson. Ptr Ink 200:62 Jl 3 '42

See also

Advertising, Educational

Advertising, Institutional

GOODRICH, B. F., company

Annual report. Comm & Fin Chr 155:1213-14 Mr 23 '42

Goodrich, 4¼s, 1956, yield 4.54%. Barron's 22:19 Mr 23 '42

Production snag; Goodrich plant committee breaks up. Business Week p70 Je 20 '42

Rubber concerns converted for war. J. A. McWethy. Barron's 22:7 My 11 '42

Thumbnail stock appraisal. Mag of Wall St 69:146 N 15 '41

GOODYEAR tire and rubber company

Annual report. Comm & Fin Chr 155:1120-1 Mr 16 '42

Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:594 S 19 '42

Rubber concerns converted for war. J. A. McWethy. Barron's 22:7 My 11 '42

GOPHERS

Mima mounds turn out to be artificial; formed by pocket gophers; abstract. W. W. Dalquest and V. B. Scheffer. Sci Am 166:247-8 My '42

GORDON, Donald, 1901-

Ottawa price czar. por(p68) Business Week p69-71 N 29 '41

Ottawa's Donald. Business Week p38+ Ap 4 '42

Portrait. Fortune 26:63 Jl '42; Business Week p48 S 5 '42

GÖRING, Hermann, 1893-

Göring; Germany's most dangerous man. K. Singer. 283p 8s 6d Hutchinson & co, London '40

GORMAN, James Edward, 1863-1942

James E. Gorman passes on; long time head of Rock Island system. por Ry Age 112:693-4 Ap 4 '42

GORTNER, Ross Aiken, 1885-1942

Portrait. Chem & Eng N 20:109 Ja 25 '42

Sketch. L. S. Palmer. Science 96:395-7 O 30 '42

GOSS, Albert S. 1882-

Sketch. pors Spectator (Life ed) 149:82 (cover) N '42

GÖTTINGEN university

Agricultural institute

Bernhard Tollens (1841-1918), and some American students of his school of agricultural chemistry. C. A. Browne. il diags J Chem Educ 19:253-9 Je '42

GOUT

Studies in uric acid clearance. E. J. Stieglitz. bibliog Pub Health Rep 57:1306-10 Ag 28 '42

GOVERNMENT, Reports to. See Business—Reports to government

GOVERNMENT accounting

Depreciation problems; relationship to public works and government finance. R. W. Crum and R. Winfrey. Am Soc C E Proc 67:1631-7 N '41

Principles involved in a system of central accounts for the United States government. E. F. Bartelt. N A C A Bul 23:907-41 Mr 1 '42

Problems relating to governmental accounting. F. F. Tannery. J Account 74:332-40 O '42

Rôle of accounts in the administration of the federal government; abstract. E. F. Bartelt. J Account 74:165 Ag '42

See also

Municipal accounting

Public welfare departments—Accounting

United States—General accounting office

GOVERNMENT advertising

Advertising plan (who will sponsor it?) to cause business men to go to war spiritually. J. T. Chirurg. il Ptr Ink 199:13-15 My 29 '42

Big push on scrap; general salvage and fats and oils drives. Business Week p20 Je 27 '42

Britain organizes its war advertising. C. Chisholm. il Ptr Ink 199:26, 31-2 Ap 17 '42

British women are lured into war factory work by smartly applied advertising psychology. C. Chisholm. il Ptr Ink 198:13-14, 53-4 Ja 30 '42

Copy for Canada. il Business Week p46+ N 29 '41

Estimates of press advertising expenditure by British government departments from outbreak of war to end of June, 1942. Economist 143:138 Ag 1 '42

42 ideas for war advertising that U.S. might adapt; experiences (and mistakes) of Britain and Canada. il Ptr Ink 198:15+ Mr 6 '42

Government advertising projects; agencies and individuals concerned listed in Advertising council's six-month report. Ptr Ink 201:54 O 9 '42

How Canada's press is handling war finance advertising; paid campaign by government is supplemented by copy contributed by civilians. Ptr Ink 201:28 O 2 '42

Impact of war on advertising; need for government advertising. Adv & Sell 35:17-20 My '42

Paid advertising by government urged in war bond sale at ANPA convention. W. M. Dear; F. E. Tripp. Comm & Fin Chr 155:1712 Ap 30 '42

£2,000,000 will be spent by Britain for war advertising this year. C. Chisholm. Ptr Ink 198:13-14+ Mr 6 '42

Who should pay for war advertising? government should pay; industry should pay. Adv & Sell 35:13-14+ Je '42

World's greatest system of mass communication is at call of U.S. government. il Ptr Ink 199:33-4, 36-8 Ap 10 '42

See also

Advertising council

State advertising

GOVERNMENT aid to business

Aid for auto dealers. Comm & Fin Chr 155:1712 Ap 30 '42

Aid for dealers; Murray-Patman act authorizes RFC to bail out handlers of rationed goods. Business Week p41-2 My 30 '42

House passes bill to aid small business. Comm & Fin Chr 155:2125 Je 4 '42

GOVERNMENT aid to business—*Continued*

Liquidity of war producers. C. B. Nickerson. Harvard Business R 20 no 3:369-74 [Ap] '42

Opportunity in Regulation V. H. V. Odle. il Burroughs Clearing House 26:20-2+ Je '42

RFC to assist dealers in rationed articles. Comm & Fin Chr 155:2044 My 28 '42

Relief for dealers; pending legislation would permit RFC to purchase or make loans on autos. Business Week p50-1 Ap 25 '42

Self-help clinics; Department of commerce community plan answers some wartime problems. Business Week p38+ Jl 18 '42

Small business unit set up in Commerce department; Congressional hearings. Comm & Fin Chr 155:109 Ja 8 '42

See also

Economic policy
Government loans and grants
Government loans to industry
Government publications
Reconstruction finance corporation
Smaller war plants corporation

GOVERNMENT boards and commissions

See also

Federal communications commission
Federal power commission
Federal trade commission
Interstate commerce commission
Social security board

GOVERNMENT bonds. See Bonds, Government

GOVERNMENT buildings. See Public buildings

GOVERNMENT bureaus. See United States—Executive departments

GOVERNMENT competition with business

Government competition; a discussion in print. Banking 35:138, 140-4 S '42

See also

Government loans and grants
Government loans to industry

GOVERNMENT contracts. See Contracts, Government; Purchasing, Government

GOVERNMENT corporations

Government corporations and credit agencies, 1941. Survey of Cur Business 22:59-60 F '42

Governmental corporations and credit agencies, assets and liabilities, Oct. 31, 1941. Fed Res Bul 28:50 Ja '42 [cont monthly]

29 federal lending agencies and how they grew. R. A. Foulke. Dun's R 49:5-14, 51-2 N '41

United States government corporations and credit agencies in 1941. Fed Res Bul 28: 319-20 Ap '42

See also

Commodity credit corporation
Defense plant corporation
Home owners' loan corporation
Metals reserve company
Reconstruction finance corporation
Smaller war plants corporation

GOVERNMENT credit agencies. See Government loans and grants

GOVERNMENT employees

Disabilities of government employees; an analysis. A. Tish. bibliog Ind Med 11:328-30 Jl '42

Employee relations in the public service. 246p bibliog(p231-46) $3 Civil service assembly of the U.S. and Canada, 1313 E. 60th st, Chicago '42

Employment of women in the federal government, 1923 to 1939. R. F. Nyswander and J. M. Hooks. bibliog U S Women's Bur Bul 182:1-60; pa 10c Supt. of doc. '41

Federal civil-service retirement act. Monthly Labor R 54:673-4 Mr '42

Federal personnel by types of work performed, June 1940 and 1941. K. R. Murphy and M. M. Gordon. Monthly Labor R 53: 1361-7 D '41

FDR directs surplus government workers to war work. Comm & Fin Chr 155:768 F 19 '42

Geographic distribution of federal civilian employees, 1936-41. H. B. Byer and A. C. Edwards. map Monthly Labor R 54:919-26 Ap '42

Grant power to shift workers to war jobs. Comm & Fin Chr 156:989 S 17 '42

Housing of federal employees in the Washington (D.C.) area in May 1941. J. Cornfield and M. Weber. Monthly Labor R 53: 1224-37 N '41

Needed, women in government service. D. Meyer. 220p $2 Robert M. McBride & co, 116 E. 16th st, New York '42

Negro federal government worker; a study of his classification status in the District of Columbia, 1883-1938. L. J. W. Hayes. 156p pa $1 Graduate school, Howard univ, Washington, D.C. '41

P.S.—he got that government job. F. D. Gonda. Sales Management 50:39-41 My 1 '42

Shift of personnel to war agencies speeded. Comm & Fin Chr 155:865 F 26 '42

Taxation of government employees by District of Columbia. Monthly Labor R 54: 701-2 Mr '42

Uncle Sam looks at safety; Federal interdepartmental safety council 4th annual meeting. Safety Eng 83:34-5 F '42

War and the increase in federal employment. K. R. Murphy. Monthly Labor R 55:217-22 Ag '42

War manpower developments; regulation of enlistment of men in federal posts and war industry. Am Water Works Assn J 34: 1734-6 N '42

Wide spread of labor unionization is predicted in field of public service; abstract. G. R. Clapp. Eng N 129:603 O 29 '42

Women in federal defense activities. L. F. McMillin. Monthly Labor R 54:640-2 Mr '42

See also

Civil service
County employees
Municipal employees
State employees
United States—Navy department—Employees

Salaries

Pay increases to Cuban government employees, 1942. C. H. Ducoté. Monthly Labor R 54:1019-20 Ap '42

Up government workers' pay. Comm & Fin Chr 156:467 Ag 6 '42

See also

Municipal employees—Salaries

GOVERNMENT employees insurance company

Reasons behind mail-order insurer's growth. Nat Underw 46:20+ S 10 '42

GOVERNMENT expenditures

Anatomy of public spending. R. M. Bissell, jr. Fortune 25:94-5+ My; 104-5+ Je '42

Byrd economy report. Nat City Bank p7 Ja '42

Can Congress save for victory? C. D. Dam. Banking 34:64 Mr '42

Curtailment of non-defense expenditures. H. P. Seidemann. 54p pa 25c Brookings institution, Washington, D.C. '41

Federal economy plans studied. C. D. Dam. Credit & Fin Management 44:20 Ap '42

Federal expenditures cut by Congress. Comm & Fin Chr 156:462 Ag 6 '42

Federal, state, local expenditures show large rise in 1941. Comm & Fin Chr 156:448 Ag 6 '42

Government expenditures in 1941 pass 1919 peak. Comm & Fin Chr 155:427 Ja 29 '42

How the federal government has grown; its four-year expenditures per capita since 1789. Fortune 25:104-5 Ja '42

How we are spending; chart showing how the war dollar is being spent. For Comm W 6:21 Ja 24 '42; Same. Mag of Wall St 70:31 Ap 18 '42

La Follette disagrees with Byrd report. Comm & Fin Chr 155:230 Ja 15 '42

National economy league recommends cut of $1,783,000,000 in non-defense outlays. Comm & Fin Chr 154:1347 D 4 '41

Non-defense spending cut of $2 billion urged. H. P. Seidemann. Comm & Fin Chr 155:138 Ja 8 '42

GOVERNMENT expenditures—*Continued*

Produce for war first; government expenditures for waterways should not be permitted to interfere with military effort. F. M. Patterson. Pub Util 29:675-80 My 21 '42

Report of Byrd committee calls for cut in non-defense outlays of $1,301,075,000. Comm & Fin Chr 155:112 Ja 8 '42

Two-billion curtailment in nondefense spending proposed. Steel 110:402-3 Ja 5 '42

War budget; fiscal policy represents all-out effort. Index 22 no 1:1-10 [Mr] '42; Abstract. Bankers M 144:361-2 Ap '42

War costs exceed all U.S. federal spending, 1789 to 1941. Steel 110:70 My 18 '42

We must reduce non-defense outlays. R. G. Stockton. Comm & Fin Chr 154:1231 N 27 '41

See also

Budget
Finance
Government loans and grants
Municipal finance
Public works—Economic aspects
State finance
Taxation
Taxpayers' associations
United States—Appropriations and expenditures

GOVERNMENT housing. See Housing projects, Government

GOVERNMENT information service. See Information service, Government

GOVERNMENT inspectors

Inspector speaks. Metals & Alloys 16:174+ Jl '42

GOVERNMENT investigations

See also

Federal trade commission

Monopoly investigation

Final report of the executive secretary to the Temporary national economic committee on the concentration of economic power in the United States. 435p Temporary nat. econ. com., Washington; pa 55c Supt. of doc. '41; Review, by B. F. Haley. R Econ Statis 24:92-8 My '42

See also

Insurance, Life—Government investigation

GOVERNMENT liability. See Municipal liability; State liability

GOVERNMENT libraries

U.S. Treasury department library; its growth and development from 1817 to the present time. I. S. Diamond. Special Lib 33:113-15 Ap '42

See also United States—War production board—Library

GOVERNMENT loans and grants

Governmental corporations and credit agencies, assets and liabilities, Oct. 31, 1941. Fed Res Bul 28:50 Ja '42 [cont monthly]

29 federal lending agencies and how they grew. R. A. Foulke. Dun's R 49:5-14, 51-2 N '41

United States government corporations and credit agencies in 1941. Fed Res Bul 28:319-20 Ap '42

See also

College students—Federal aid
Government corporations
Railroads—Federal loans
Reconstruction finance corporation
Roads—Federal aid
Rural electrification administration
Work projects administration

GOVERNMENT loans to industry

All-out credit strategy. O. McKee. Banking 34:23+ F '42

Cutting credit corners. H. Bratter. Banking 34:19-21, 68-9 My '42

Federal Reserve board issues rules for financing of war contracts. Comm & Fin Chr 155:1542 Ap 16 '42

Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42

Financing industry, now and after the war. A. H. Gordon. Inv Banking 12:9-12 O '42

Financing of contracts for war production; with text of order authorizing War and Navy departments and Maritime commission to enter into financing contracts. Fed Res Bul 28:298-301 Ap '42

Nebraska bankers study competing agencies. E. W. Rossiter. Bankers Mo 59:205-7 My '42

President orders loans to small business to put working capital financing on war basis. Comm & Fin Chr 155:1360 Ap 2 '42

Senate approves aid for small manufacturing plants. Comm & Fin Chr 155:1448 Ap 9 '42

War financing; Regulation V. Fed Res Bul 28:424-7 My '42

See also

Railroads—Federal loans

GOVERNMENT news. See Newspapers—Government news

GOVERNMENT officials. See Public officials

GOVERNMENT ownership

Case for taxation of publicly owned utilities. K. C. Christensen. Pub Util 30:540-6 O 22 '42

Country editor awakens with a start. W. M. Maupin. Pub Util 29:155-60 Ja 29 '42

Does the average worker prefer public or private employment? A. M. Cooper. Pub Util 29:811-17 Je 18 '42

Government in business. M. P. Keohane. 37p bibliog(p36-7) pa 60c Ginn '42

Holding company dissolution, public ownership and war. F. J. McDiarmid. Pub Util 30:629-40 N 5 '42

See also

Electric utilities—Government ownership
Government corporations
Government regulation of industry
Hydroelectric plants—Government ownership
Industry and state
Insurance, State
Railroads and state

GOVERNMENT paper. See Paper, Government

GOVERNMENT printing. See Printing, Public

GOVERNMENT printing office. See United States—Government printing office

GOVERNMENT publications

Cut government publications. Comm & Fin Chr 156:1276 O 8 '42

Filing the corporate entry for the catalog user. H. E. Shufro. Special Lib 33:53-5 F '42

Government documents and public library service to business. (Business literature v 14, no 7) 2p Business branch, Newark public lib, Newark, N.J. Mr '42

Government publications for the advertising man. E. M. Rushmore. Ptr Ink 199:44 Je 19 '42

Research for flood control data; guide to printed material. G. E. Larson. il map Civil Eng 12:131-4 Mr '42

Bibliography

Guides and aids to public documents, 1941. J. K. Wilcox. bibliog Special Lib 33:79-84, 124-6 Mr-Ap '42

Official defense publications: supplement guide to state and federal publications. J. K. Wilcox. 135p pa $1 Bur. of public administration, Univ. of Calif, Berkeley '42

Official war publications; guide to state, federal, and Canadian publications; second supplement to "Official defense publications." J. K. Wilcox. 212p pa $1.50 Bur. of public administration, Univ. of California, Berkeley '42

Quarterly digest of directives. $1.50 a year. Published by Book service, Adjutant general's school, Fort Washington, Md.

Reference list of national defense publications. 36p U.S. Information service, Office of government reports, Washington '42

GOVERNMENT publications—Bibliography—*Continued*

Technical publications, 1940-41, issued by the U.S. government. C. H. Melinat, comp. Booklist [ALA] 38:138-41 D 15 '41

United States government periodic publications; a descriptive list. 87p pa $2 Special lib. assn. '42

Great Britain

List of author headings for British government departments. D. D. Tod. 37p bibliog(p36-7) pa 50c Univ. of Toronto press, Toronto '42

GOVERNMENT publicity

Government agencies and civilian morale. P. S. Broughton. Ann Am Acad 220:168-77 Mr '42

Plan to coordinate radio war messages. Ptr Ink 199:60 Ap 24 '42

Reporting of public affairs. F. E. Merwin. Ann Am Acad 219:120-6 Ja '42

Reporting the Washington news. R. Wilson. Ann Am Acad 219:127-31 Ja '42

U.S. on the air; government plan to buy short-wave time inspires hope for paid programs. Business Week p28+ F 28 '42

GOVERNMENT purchasing. See Purchasing, Government

GOVERNMENT regulation of industry

Administrative regulation of private enterprise. J. P. Horlacher, ed. Ann Am Acad 221:1-191 My '42

Alternative to socialization; future relations of government and industry. S. Courtauld. Trusts & Estates 75:119-21 Ag '42

Effect of government controls on exploration for mines. E. H. Snyder. il Min Cong J 27:23-5; Discussion. R. D. Leisk. 25-6 N '41

Fortune survey; after the war: portrait of the government. Fortune 24:120-1 D '41

How much do you know about government regulation of retailing? J Retailing 18:15, 21 F '42

Lumber decree; national and 22 regional groups to follow rules imposed by the government. Business Week p24+ Ja 10 '42

Managed by U.S.? War department's ouster of Air Associates head. Business Week p18-19 D 6 '41

Social trends and the investor; companies furnishing the necessities of life particularly vulnerable to government control. T. R. Price, jr. Barron's 22:18 Jl 20 '42

Spirit of business in wartime; why making a profit is essential part of merchandiser's contribution to victory. R. S. Butler. Ptr Ink 201:11-12, 64, 66 O 23 '42

Talks before Virginia association on government in business, RFC and WDC. W. H. Bennett. East Underw 43:22 Je 5 '42

See also

Coal trade—Regulation
Competition, Unfair
Economic planning
Electric utilities—Regulation
Federal trade commission
Food laws and regulations
Government ownership
Industry and state
Insurance companies—Regulation
Interstate commerce
Interstate commerce commission
Labor laws and legislation
Milk supply—Laws and regulations
Moving picture industry—Regulation
National war labor board
Petroleum industry and trade—Regulation
Price fixing, Government
Prices—Regulation
Priorities and allocations, Industrial
Public utilities—Regulation
Railroads—Rates
Railroads and state
Trade associations
Trade marks
Trusts, Industrial

GOVERNMENT reports, Office of. See United States—Government reports, Office of

GOVERNMENT research

Research agency; WPB's Office of technical development. Business Week p58-9 Ag 8 '42

Use and misuse of science in government. A. V. Hill. Science 94:475-7 N 21 '41

See also

National defense research committee
United States—Scientific research and development, Office of

GOVERNMENT statistics

Directory of federal statistical agencies; a list of administrative, research, and data-collecting personnel. 6th ed 210p U.S. Bur. of the budget, Washington '42

Government and the statistician. W. W. Riefler. Am Statis Assn J 37:1-11 Mr '42

Problems created by the discontinuance and alteration of statistical information and other sources. G. Hutton. Special Lib 33: 250-5 S '42

Protection of statistical information from enemy use. S. A. Rice. Special Lib 33: 243-9 S '42

GOVERNMENTAL labor officials, International association of. See International association of governmental labor officials

GOVERNMENTAL research association

Directory of organizations engaged in governmental research. 75p pa $1 The association, 5135 Cass av, Detroit '41

GOVERNMENTS in exile. See World war, 1939—Exiled governments

GOVERNORS (machinery)

Acceleration-sensitive governors. il diags Product Eng 13:150-3 Mr '42

Control of tie-line power swings. C. Concordia, H. S. Shott and C. N. Weygandt. Elec Eng 61:Trans 306-13 Je '42

Controls speed without hunting; device for Diesel engines, combining function of fuel pump and governor; patent. diag Machine Design 14:122+ Mr '42

Flyweights immersed in oil; patent. diag Machine Design 13:120+ D '41

Governing turbine pressures. R. Sheppard. diags Power 86:82-4, 155-7 F-Mr '42

Governor design; scheme based upon charge control, evolved by the Solex co. il diags Automobile Eng 32:397-400 O '42

Sluggish governor causes engine trouble. A. Greer. diags Power 86:201 Mr '42

Some problems connected with steam turbine governing. G. W. Higgs-Walker. diags Inst Mech Eng J & Proc 146:Proc 117-25 Ja '42; Discussion. 148:Proc 26-32 N '42

Supplementary control of prime-mover speed governors. S. B. Crary and J. B. McClure. bibliog Elec Eng 61:Trans 209-14 Ap '42

Which governor suits your turbine load? F. K. Fischer and O. N. Bryant. il diags Power 86:231-3 Ap '42

Manufacture

Pierce governor co. surmounts production problems due to war. J. Geschelin. il Automotive & Aviation Ind 87:36-9+ S 15 '42

GOVERNORS (United States)

Emergency war powers of the governors of the 48 states. 50p pa $1 Council of state governments, 1313 E. 60th st, Chicago '42

Emergency war powers of the states. Monthly Labor R 54:1084-7 My '42

GRABS. See Buckets

GRACE, Eugene Gifford, 1876-

Bessemer medal presented to E. G. Grace by British steel institute. por Steel 110:40 My 25 '42

Portrait. Marine Eng 47:178 O '42

GRADE crossing accidents

Accidents delay war materials. Ry Age 112: 1052 My 23 '42

Clearing the tracks. D. B. Robertson. il Nat Safety N 46:60-1+ O '42

Crossing accidents injure war production; abstract. C. E. Hill. Ry Age 113:727 N 7 '42

Formula gives accident hazard at grade crossings. L. E. Peabody and T. B. Dimmick. il Ry Age 112:203-7 Ja 17 '42

Grade crossing accidents retard national defense. C. E. Hill. Ry Age 112:493+ Mr 7 '42

1941 grade crossing accidents. Ry Age 112: 1095 My 30 '42

GRADE crossing elimination
Attractive structures feature this grade separation; Aqueduct, Queens county, Long Island. il plans Ry Age 111:995-8 D 13 '41
Contractor invades territory of general mud; grade separation project in Arizona. P. F. Glendening. il Roads & Sts 85:25-30 Ap '42
Dunkirk grade separation project has interesting features. il plan Ry Age 113:445-8 S 19 '42
Railroad underpass aids St Louis traffic. W. J. Hedley. il diags Eng N 129:290-2 Ag 27 '42
Rock Springs, Wyoming, subway-viaduct project. D. P. Miller. il Pub Works 73:11+ O '42
See also
Railroads—Track elevation

Cost

Grade crossing elimination, Ohio; unit prices. Eng N 129:46 Jl 2 '42

Finance

Cost of eliminating railroad grade crossings. A. Dollinger. Pub Util 28:813-18 D 18 '41

GRADE crossings
Highway crossing construction and maintenance; Roadmasters and maintenance of way association committee report. Ry Age 113:528 O 3 '42
Protection at 38 street crossings in Rock Island, Ill. il plan Ry Age 112:655-7 Mr 28 '42
Report on highways; A.R.E.A. committee. Ry Age 112:596-7 Mr 21 '42
Status of federal-aid grade crossing projects. Published in monthly numbers of Public roads

GRADE marks
A.N.A. on labeling; ten-point critical analysis of grading and government standards. Business Week p64+ D 13 '41
Do educators favor grade labeling? G. B. Hotchkiss. il Mod Packaging 15:49-50 F '42
Grade labeling? it's not just on way; it's here already. E. R. Smith. Ptr Ink 198:13-14+ Mr 27 '42
Pros and cons on grade labeling from readers. Mod Packaging 15:48+ F '42
Where grade labeling stands today. E. P. O'Donnell. il Adv & Sell 34:35, 58, 60 D '41
See also
Labels
Quality of products

GRADING (earthwork)
See also
Railroads—Earthwork
Roads—Grading

GRAEBE-ULLMANN reaction
Graebe-Ullmann synthesis of carbazole derivatives; preparation and synthesis of 1-nitrocarbazole. R. W. G. Preston, S. H. Tucker and J. M. L. Cameron. Chem Soc J p500-4 Ag '42
Preparation of 1-substituted carbazoles. N. Campbell and J. A. R. MacLean. Chem Soc J p504-5 Ag '42

GRAHAM, John J. 1881-1941
Sketch. East Underw 42:30+ N 21 '41

GRAHAM Land expedition. See Antarctic exploration

GRAIN
Chemical engineering developments in grain distillery. A. Herman, E. M. Stallings and H. F. Willkie. flow diags il Am Inst Chem Eng Trans 38:791-809; Discussion. 809-12 Ag '42
President says sub-parity grain sale is vital to the war time effort. Comm & Fin Chr 156:189 Jl 16 '42
Russia's grain varieties; United States government has offered to aid in rescuing them from destruction. Science 95:sup12 Ja 2 '41
Sub-parity grain sale is approved by House. Comm & Fin Chr 156:274 Jl 23 '42
See also
Barley
Cereals, Prepared
Corn
Flour
Rice
Rye
Wheat

Prices

Feed grains and storage problems. Barron's 22:13+ My 25 '42

Standards

Handbook of official grain standards of the United States. rev ed 101p U.S. Agricultural marketing service, Washington; pa 15c Supt. of doc. '41

Storage

Reinforced tile grain storage bins; Speed tile with waterproofed mortar makes moisture-proof bins. E. W. Manthey. il Brick & Clay Rec 101:21-2 S '42

Transportation

No bags to fill; prospect faced by California growers as result of burlap restrictions. Business Week p80 Ap 18 '42

GRAIN elevator insurance. See Insurance, Grain elevator

GRAIN elevators
Cable-supported roof for grain storage. il Eng N 127:882-3 D 18 '41
Official report on big elevator loss. Nat Underw 46:2 Ja 22 '42
Open steel caissons for cast-in-place piles; foundation for grain elevator, Buffalo, N.Y. G. B. Sowers. il Eng N 127:717 N 20 '41

GRAIN elevators, Cooperative
Cooperative grain elevators in North Dakota and eastern Montana. H. E. Ratcliffe, P. V. Hemphill and H. F. Hollands. 58p U.S. Farm credit administration, Washington; pa 10c Supt. of doc. '41

GRAIN handling
See also
Grain elevators

GRAIN mills. See Flour mills

GRAIN storage
Dept. of agriculture buys grain storage bins. Am Bld 64:20 Jl '42
Farm storage held best for grain crops. Comm & Fin Chr 156:452 Ag 6 '42
Tests reveal performance of grain bin ventilating cowls; abstract. C. F. Kelly, M. G. Cropsey and W. R. Swanson. il Heat & Ven 39:40 S '42
See also
Grain elevators

GRAIN trade
See also
Wheat

Persia

Iran's grain production and trade. For Comm W 8:23 Ag 22 '42

Sweden

Sweden's grain problems. For Comm W 7:19 My 16 '42

GRAMICIDIN
Germ chemicals from the soil. J. Stafford. Science 95:sup12 Ja 2 '42

GRAMMAR
See also
English language—Grammar

GRAND Coulee dam. See Columbia river—Grand Coulee dam

GRANDSTANDS, Portable
Standards for grandstands approved by American standards association. Arch Rec 90:22 N '41

GRANGER, Walter, 1872-1941
Memorial. G. G. Simpson. por(pl) Geol Soc Proc 1941:159-72 bibliog(p 166-72) Mr '42

GRANITE
Distribution of helium and radioactivity in rocks; mineral separates from the Cape Ann granite. N. B. Keevil. bibliog Am J Sci 240:13-21 Ja '42
Granite and magmation and metamorphism. J. A. Dunn. Econ Geol 37:231-8 My '42
Granite and ore. A. Locke. Econ Geol 36:448-54 Je '41; Discussion. H. E. McKinstry. 36:829-32 D '41; Discussion. A. L. Anderson. bibliog 37:510-19 S '42

GRANITE—*Continued*

Granite: its formation, elevation, exposure, and the development of the granite industry in Milford, Mass. E. A. Bragg. 141p $2 Ernest A. Bragg, Milford, Mass. '41

Streamlined stone producer; Raleigh granite company's Greystone quarry. T. L. Wells. il diags plan Explosives Eng 20:228-33 Ag '42

GRANITE CITY steel company

Favored stocks priced from $1 to $10. Mag of Wall St Manual p9 Ap '42

GRANITE workers

Health of workers in dusty trades; restudy of a group of granite workers. A. E. Russell. (Pub. health bul. 269) 71p U.S. Public health service, Washington; pa 15c Supt. of doc. '41

GRANT, Ulysses S., 3d, 1881-

Portrait. Eng N 129:339 S 10 '42

GRANT, W. T., company

Consolidated income account for years ended Jan. 31, 1939-1942. Comm & Fin Chr 156: 253 Jl 20 '42

Stocks cheap under highest taxes. P. Dobbs. Mag of Wall St 70:241 Je 13 '42

GRANTIANINE

Alkaloid of crotalaria grantiana; grantianine. R. Adams, M. Carmack and E. F. Rogers. Am Chem Soc J 64:571-3 Mr '42

GRANULAR materials

Determining the surface area of powdered materials from granulometric analyses; abstract. H. zur Strassen and W. Strätling. Am Cer Soc Bul 21 (Cer A 21):151-2 Jl 15 '42

Elevators and conveyors for handling powdery, granular, pulverulent or like material; patent. diags Mech Handling 28:249 N '41

Filtration of granular materials; design of the top-feed filter. A. J. Barnebl. il diags Chem & Met Eng 48:80-4+ Jl '41; Abstract. Chem Age (Lond) 45:277-8 N 29 '41

Handling of minerals, etc.; patent. diags Mech Handling 29:13-15 Ja '42

Packing machine for powdered materials. il Engineering 152:507 D 26 '41

Stability of granular materials. R. E. Glover and F. E. Cornwell. diags Am Soc C E Proc 67:1639-56 N '41; Discussion. 67:1723-4; 68:501-5, 651-60, 1399-1403 N '41, Mr-Ap, O '42

See also

Flour
Powders
Particles
Separators

GRAPE juice

Scientific fundamentals of fruit juice storage under carbon dioxide pressure; behavior of yeasts to carbon dioxide; abstract. A. Osterwalder and J. Jenny. Food Ind 14:106 S '42

GRAPEFRUIT

Cuban grapefruit exports, 1937-1941. For Comm W 7:22 My 2 '42

GRAPEFRUIT juice

Brief summaries of AMS standards; canned grapefruit juice. Food Ind 14:66 Jl '42

GRAPES

Exports of Chilean table grapes, 1937-1941. For Comm W 7:21 Ap 25 '42

Sulphur dioxide used to preserve grapes; abstract. W. T. Pentzer and W. R. Barger. Food Ind 14:104 F '42

GRAPESEED oil

Grape-seed oil; abstract. H. Fiedler. Soap & San Chem 18:57-8 N '42

Spanish grapeseed oil; abstract. Ruiz and Muñoz. Chem Age (Lond) 47:318 O 10 '42

GRAPH paper, Probability. See Probability paper

GRAPHIC arts

Developments in the graphic arts, 1941. M. S. Kantrowitz. bibliog Paper Tr J 114:45-8 Mr 26 '42

Groups work for consolidation of graphic arts on a national scale. Inland Ptr 108:43 Ja '42

Review and forecast. J. Boday. il Adv & Sell 35:159-60, 162 F '42

See also

Drawings
Printing
Engravings
Printing materials

Study and teaching

Graphic arts. W. H. Johnson and L. V. Newkirk. 160p $2.50 Macmillan '42

Yearbooks

Seventh annual advertising and publishing production yearbook. 468p bibliog(p319-26) $5 Colton press, 114 E. 32d st, New York '41

GRAPHIC arts emergency council

Form Graphic arts emergency group at Chicago meeting; Council to represent management, labor, and investors in the industry's dealings with various agencies of government; with text of speech by G. L. Berry. Inland Ptr 109:27-30 My '42

Graphic arts emergency council. Inland Ptr 109:46 Je '42

Wartime graphic arts coalition. Ptr Ink 199: 61 Ap 24 '42

GRAPHIC methods

Analysis of periodic loads in composite walls. B. F. Raber and F. W. Hutchinson. diags Heating-Piping 14:367-8 Je '42

Analysis, synthesis, and evaluation of the transient response of television apparatus. A. V. Bedford and G. L. Fredendall. bibliog diags Inst Radio Eng Proc 30:440-57 O '42

Angles in space; their measurement on a direction diagram. H. H. Stevens, jr. diags Product Eng 13:392-4, 443-5 Jl-Ag '42

Application of back-pressure tests to gathering systems. J. W. Ferguson and M. F. Shaffer. diag Oil & Gas J 41:39-42 Je 4 '42

Calculation and graphical representation of the fatigue strength of structural joints. Welding J 21:sup87-93 F '42

Calculation of ground-wave field intensity over a finitely conducting spherical earth. K. A. Norton. bibliog charts Inst Radio Eng Proc 29:623-39 D '41

Characteristic curves of the triode. E. L. Chaffee. bibliog diags Inst Radio Eng Proc 30:383-95 Ag '42

Charting stability in aircraft. C. D. Perkins. Aviation 41:75, 78-9 Mr; 123, 125+ My '42

Charts that aid in expense control. A. Van Vlissingen. Burroughs Clearing House 26: 14-16+ D '41

Charts that promote enthusiasm for maximum production. E. Caldwell. Steel 111: 118+ S 14 '42

Class C telegraphy; the graphical determination of optimum operating conditions for transmitting valves. D. G. Prinz and R. G. Mitchell. Wireless Eng 19:401-7 S '42

Commercial variations; method of presenting steel properties by charts. Metals & Alloys 16:448 S '42

Computing scales for calculating percentage deviation from average weight. T. I. Edwards. Science 95:50-1 Ja 9 '42

Constants of straight-line laws. G. F. Freeman. Engineering 152:354 O 31 '41; Discussion. 152:414, 434 N 21-28 '41

Countercurrent leaching; graphical determination of required number of units. R. T. Armstrong and K. Kammermeyer. bibliog il Ind & Eng Chem 34:1228-31 O '42

Current induced in an external circuit by electrons moving between two plane electrodes. R. Kompfner. Wireless Eng 19:52-5 F '42

Distribution graphs of suspended-matter concentration. J. W. Johnson. bibliog Am Soc C E Proc 68:1383-98 O '42

Free-convection cooling of mild steel bars and rods; graphical time-temperature relations. J. Griswold and O. S. Jenkins. Am Soc for Metals Trans 29:1002-12 D '41

Grading of d.c. starters. G. F. Freeman. bibliog Inst E E J 88 pt 2:412-14 O '41

Graph of impedance of eccentric conductor cable; reference sheet. W. J. Barclay and K. Spangenberg. Electronics 15:50 F '42

GRAPHIC methods—*Continued*

Graphic method for some geologic calculations. M. L. Hill. Am Assn Pet Geologists Bul 26:1155-9 Je '42

Graphic method of studying the separation of mixtures by immiscible solvents. L. F. Knudsen and D. C. Grove. Ind & Eng Chem Anal ed 14:556-7 Jl 15 '42

Graphical aid in multiplying and dividing complex numbers. D. C. Jackson. Elec Eng 61:104-5 F '42

Graphical analysis of periodic loads. B. F. Raber and F. W. Hutchinson. Heating-Piping 14:241-2 Ap '42; Discussion. 14:298 My '42

Graphical analysis of planetary gear systems. G. J. Talbourdet. diags Machine Design 14: 93-6 Ag; 91-4 S; 207-10 O '42

Graphical analysis of saw tooth waves. U. R. Furst. diag Electronics 15:49-50 Jl '42

Graphical analysis of U-boat activities, 1917-18. W. W. Robertson. Engineering 154: 175-6 Ag 28 '42

Graphical calculation of nonisothermal reactions. J. W. Greene, J. B. Sutherland and G. Sklar. Ind & Eng Chem 34:65-7 Ja '42

Graphical method for interconversion of ternary compositions. Kuan Han Sun and A. Silverman. Ind & Eng Chem 34:872-3 Jl '42

Graphical method of computing street lighting illumination charts. J. H. Dean. bibliog Illum Eng 37:417-22 Jl '42

Graphical method of determining lighting costs. L. S. Ickis. Illum Eng 37:377-81 Je '42

Graphical methods for indicating the mineral character of natural waters. W. F. Langelier and H. F. Ludwig. bibliog diags Am Water Works Assn J 34:335-52 Mr '42

Graphical solution of fluid-friction problems. E. S. Dennison. Engineering 153:179-80 F 27 '42

Ignition system as influenced by fuel characteristics; automatic advance curves. J. T. Fitzsimmons. S A E J 50:15-19 Ja '42; Abstract. Automotive Ind 84:627-8 Je 15 '41

Interconversions of binary compositions by simple graphical methods. Kuan Han Sun and A. Silverman. bibliog Ind & Eng Chem 34:682-4 Je '42

Leaching calculations; note on the graphical method. G. F. Kinney. Ind & Eng Chem 34:1102-4 S '42

Lime softening graphically studied. H. O. Hartung. il Water Works & Sewerage 88: 539-44 D '41

Liquid-liquid extraction data; toluene and acetaldehyde systems. D. F. Othmer and P. E. Tobias. Ind & Eng Chem 34:690-2 Je '42

Location of the end point on certain graphical titration curves. A. Langer and D. P. Stevenson. bibliog Ind & Eng Chem Anal ed 14:770-3 O 15 '42

Mechanization of statistical drafting. R. von Huhn. Am Statis Assn J 37:387-90 S '42

Semi-graphical method of determining the power limits of an interconnector. H. Rissik. diags Inst E E J 88 pt 2:568-88 bibliog(p583-4) D '41; Discussion. 89 pt 2:373-5 Ag '42

Simplifying graphical solution of linkages. H. A. Bolz. Machine Design 14:68-70 My '42

Sludge triangle; rapid method for determining solids. G. E. Symons and S. R. Kin. bibliog diags Water Works & Sewerage 89:17-23, 156-8 Ja, Ap '42

Some refinements in methods of graphical integration. L. H. Donnell. il diags Franklin Inst J 233:331-48 Ap '42

Some simplified methods of determining the optical characteristics of electron lenses. K. Spangenberg and L. M. Field. bibliog il diags Inst Radio Eng Proc 30:138-44 Mr '42

Statistical theory of the effect of dimensions and of method of loading upon the modulus of rupture of beams. J. Tucker, jr. bibliog Am Soc T M Proc 41:1072-88; Discussion. 1089-94 '41

Stresses in, and the deflexion of, circular flat plates, with a central hole, under normal forces. S. Labrow. diags Inst Mech Eng J & Proc 145:Proc 115-25 Je '41; Discussion. 146:Proc 136-40 Ja '42

Temperature and resistance; graphic method of obtaining relationships rapidly. W. Bacon. Elec R (Lond) 129:432 O 24 '41

To evaluate the performance of a screen. R. Kohn. Eng & Min J 143:60-1+ Jl '42

Torsional center determination in stressed skin structures. M. Watter. diags Aero Digest 40:145-6 F '42

Transit-time phenomena in electronic tubes; a graphical method for investigation. R. Kompfner. Wireless Eng 19:2-7 Ja '42

See also

Charts (calculating)

Curve plotting

GRAPHIC statics

Graphic analysis of tripod landing gears. S. Arkawy. diags Aero Digest 40:157-8+ Je '42

Measurement of stresses in car wheels. R. L. Kenyon and H. Tobin. il diags Ry Mech Eng 115:516-23; 116:6-14+ D '41-Ja '42

Variation of elastic characteristics on statically indeterminate quantities. A. Hrennikoff. diags Am Soc C E Proc 68:71-93 Ja '42; Discussion. 68:661-4, 819-21, 1427-32 Ap-My, O '42

GRAPHITE

Acheson colloids corporation; use of Oildag for coating the mating surfaces prior to fitting. Aeronautical Eng R 1:53 My '42

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42

Carbon and graphite; properties, uses, etc. Product Eng 13:469-70 Ag '42

Ceylon's graphite industry. Economist 143: 272 Ag 29 '42

Ceylon's production of graphite. For Comm W 9:29-30 O 31 '42

Changes in spectral transmission of soda silicate glass caused by the addition of lampblack and graphite. W. M. Cohn. bibliog il Glass Ind 23:95-8 Mr '42

Colloidal graphite cuts assembly time. Iron Age 149:62 Ap 30 '42

Colloidal graphite electrostatic shielding. B. H. Porter. R Sci Instr 13:129-30 Mr '42

Dry lubrication; metallic and non-metallic surfaces treated with dag colloidal graphite. Engineer 173:356 Ap 24 '42

Dry lubrication; use of colloidal graphite. Engineering 153:447-8 Je 5 '42

Durex iron finds many applications; composition of iron powders and graphite. Mach 48:158-9 D '41

Electric resistance and anisotropy of artificial graphite between 290° K. and 12° K. A. Goetz and A. Holser. Electrochem Soc Trans 82 (preprint 7):89-94 O '42

Electrical conductivity of graphite films. Electrician 128:617 Je 19 '42

Flotation of weathered Alabama graphitic schists for crucible flake. J. B. Clemmer and others. (Geol. survey bul. 49) 101p Univ. of Alabama, University, Ala. '41

Graphite as a lubricant for high speed tool drives. R. C. Newbury. il diag Iron Age 149:44-6 Mr 5 '42

Graphite as a paint pigment. Paint Oil & Chem R 104:22+ Je 4 '42

Graphite-mining industry of the Guaymas consular district, Mexico. For Comm W 6: 24 Ja 31 '42

High temperature lubrication; graphite deposited by evaporation of carrier oil. Automobile Eng 32:377 S '42

Manufacture of high-quality, low-cost steel; deoxidation; use of graphite for carburizing. P. J. McKimm. il Steel 110:78+ Mr 9 '42

Mining plumbago in Ceylon. J. N. Peterson. il Comp Air M 47:6756-9 Je '42

Non-metal shieldings; use of colloidal graphite. B. H. Porter. diags Radio N 28:33+ Ag '42

Non-metal shields; colloidal graphite films for vacuum tubes, electronic musical instruments, electrostatic generators, guard rings for vacuum apparatus. B. H. Porter. Electronics 15:33+ Ap '42

Purification of spectrographic carbons. R. Zietlow, P. Hamm and R. C. Nelson. Science 94:438 N 7 '41

GRAPHITE—*Continued*

Running-in of internal-combustion engines; use of dag colloidal graphite in lubricating oil. Engineering 154:270 O 2 '42

Screening electrical apparatus; use of graphite coatings. Engineer 173:169 F 20 '42; Engineering 153:178 F 27 '42

Screening with graphite; details of simple process for eliminating interference. Electrician 128:196-7 Mr 6 '42

Shell production increased by the use of dry lubricant; graphoid-surfacing of mandrels and piercers for the hot-forging. Mach 48: 132+ F '42

Silver used in graphite brushes. Elec W 118: 308 Jl 25 '42

Structural carbon and graphite; representative physical properties. Chem & Met Eng 49:96-7 S '42

GRAPHOLOGY

Handwriting analysis. T. S. Lewinson and J. Zubin. 147p bibliog(p146-7) pa $2 Columbia univ. press '42

Self-knowledge through handwriting. H. J. Jacoby. 71p $2.75 William Salloch, 344 E. 17th st, N.Y. '41

GRAPTOLITES

Silurian graptolite zone in Crane county, Texas. C. E. Decker. il Am Assn Pet Geologists Bul 26:857-61 My '42

GRASS lands

Grassland research in Great Britain. Science 95:641-2 Je 26 '42

GRASSES

Electric energy for drying grass. Elec W 117: 1036 Mr 21 '42

Electricity and haymaking; drying of grass by artificial heat. il Electrician 129:323-4 S 25 '42

No cure-all, sometimes repels some insects; melinis minutiflora, molasses grass. Sci Am 165:343 D '41

See also

Lemon grass

Pastures

GRASSES as food

Grass as an article of diet for human consumption. J. R. B. Branson. Chem & Ind 61:197 Ap 25 '42

Some observations on carotene losses in storage. R. O. Davies. Chem & Ind 61:275-6 Je 20 '42

Vitamins in grass. V. Booth. Chem & Ind 61: 255-6 Je 6 '42

GRASSHOPPER engines. See Steam engines

GRASSHOPPERS

Rearing grasshoppers under laboratory conditions. M. H. Haydak. Science 95:657-8 Je 26 '42

GRATES

Coal grates for oil furnaces. il diags Sheet Metal Worker 33:50-2 Ap '42

Steam cooling for mechanical-stoker grates. B. M. Thornton. bibliog diags Engineering 154:183-5, 214-15 S 4-11 '42

Study of a conversion grate for oil burning plants. R. C. Cross. il Heat & Ven 39: 56-60 O '42

GRATINGS

Concrete catch basin grates for airport drainage; also precast mullions and manhole fittings. il Rock Prod 45:87+ O '42

Precast concrete catch-basin grates find market in airport runways. diags Concrete 50:14-15 S '42

GRATITUDE

Sermon on gratitude. H. J. Knickle. East Underw 43:13 Ja 2 '42

GRAVEL

Development of the sand and gravel industry. S. F. Colby. pls map U S Bur Mines Information Circ 7203:1-23 '42

Flood deposits of Arroyo Seco, Los Angeles county, California. W. C. Krumbein. bibliog diags maps Geol Soc Bul 53:1355-1402, pl 1-7 S '42

Gravel outwash near Chillicothe, Ohio. F. Leverett. Science 95:528 My 22 '42

Gravel-packing wells to increase production efficiency. L. C. Uren. bibliog(43 titles) Pet Eng (Annual no) 13:81-2+ [Jl] '42

Gravel pre-packed liners. F. A. Graser. il diags Pet Eng (Annual no) 13:36, 39-40, 42 [Jl] '42

Hydraulic separator designed to remove sticks, bark, driftwood, shale, etc. from gravel. diags Rock Prod 45:60 Ap '42

Permeability of Mud Mountain Dam core material. A. S. Cary, B. H. Walter and H. T. Harstad. diag Am Soc C E Proc 68: 1089-98 S '42

See also

Concrete—Aggregate

Roads, Gravel

GRAVEL handling

Effect of belt transportation on concrete aggregate grading at Shasta dam. G. L. Williams. il diags Am Concrete Inst J 13: 329-32 F '42

Loading gravel by tractor; with cost data. D. R. Stevens. il Pulp & Pa of Can 43: 319-22 Mr '42

Operating a 9-mile belt conveyor at Shasta dam. A. H. Whitmore. il Eng N 129:218-20 Ag 13 '42

Radiating conveyor system speeds storage and shipping; Highland sand and gravel co. il Rock Prod 45:40-1 Jl '42

Rail haul with sluice to the plant; B. V. Hedrick gravel and sand co. il Rock Prod 45:44-5 F '42

GRAVEL plants

Floating gravel crushing plant; Richmond sand and gravel corp. has Diesel-powered auxiliary plant to crush and screen oversize from two ladder dredges. il Rock Prod 45:52-3 O '42

Directories

Directory of sand and gravel pits in Canada. Roads & Bridges 80:116, 118 Jl '42

Equipment

Aggregate production for Friant dam. C. T. Douglass. flow diag il Civil Eng 12:127-30 Mr '42

Diesels cut dredge costs; Union sand and gravel co. O. Adams. il Rock Prod 45:62-3+ F '42

Get rid of clay with surplus water; rail haul with sluices to the plant; B. V. Hedrick gravel and sand co. il diag Rock Prod 45: 42-5 F '42

Gravel for porous concrete; Becker County sand and gravel co. il Rock Prod 44:38-40+ D '41

Meeting peak demands; stockpiling facilities. il Rock Prod 45:51 F '42

Radiating conveyor system speeds storage and shipping; Highland sand and gravel co. il Rock Prod 45:40-1 Jl '42

Recover special sands and gravel for bituminous road mixes; Eau Claire sand and gravel co. il Rock Prod 45:24-5 My '42

Self-cleaning dewatering screen also separates sand into sizes. il Rock Prod 45:44-5 S '42

See also

Gravel handling

Safety measures

Announce winners in sand and gravel contest. Nat Safety N 46:94-5 S '42

GRAVEL plants, Portable

300,000 tons of material produced during the past season; Pioneer gravel plant. il Roads & Bridges 80:62 Ja '42

Transportable plant solves problem; Battle Creek gravel co. uses two portable crushing and screening units to supplement permanent plant. R. S. Torgerson. il Rock Prod 45:28-9 Ag '42

GRAVEL washing

Get rid of clay with surplus water. il diag Rock Prod 45:42-3 F '42

Sand, gravel, etc. washing; patent specification. diag Mech Handling 29:93 My '42

GRAVES mountain, Georgia

Kyanite in Graves mountain. J. H. Watkins. il diag Am Cer Soc Bul 21:140-1 Jl 15 '42

GRAVIMETRIC analysis
Calculation of mineralogical composition of feldspar by chemical analysis. E. W. Koenig. bibliog Am Cer Soc J 25:420-2 O 1 '42
Chemical analysis; gravimetric separation. H. J. S. Sand. il Elec R (Lond) 131:329-30 S 11 '42
Determination of carbonyl groups in bile preparations. A. E. Light. Ind & Eng Chem Anal ed 14:42-3 Ja 15 '42
Determination of citric acid in pure solutions and in milk by the pentabromoacetone method. E. F. Deysher and G. E. Holm. bibliog Ind & Eng Chem Anal ed 14:4-7 Ja 15 '42
Determination of palladium with beta-furfuraldoxime. J. R. Hayes and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14: 491-3 Je 15 '42
Determination of soybean flour in sausages and other meat products; a protein separation method. J. Bailey. bibliog(71 references) Ind & Eng Chem Anal ed 14:776-81 O 15 '42
Electro-chemical analysis. R. H. Powell. il diag Elec R (Lond) 130:81-4 Ja 16 '42
Gravimetric determination of aluminum in magnesium alloys; benzoate-oxine method. V. A. Stenger, W. R. Kramer and A. W. Beshgetoor. Ind & Eng Chem Anal ed 14: 797-8 O 15 '42
Separation and determination of lead with salicylaldoxime. W. B. Ligett and L. P. Biefeld. Ind & Eng Chem Anal ed 13:813-15 N 15 '41

GRAVING docks. See Dry docks

GRAVITATION
Gravitational constant; abstract. P. R. Heyl. Science 95:sup8 Mr 27 '42
Is space-time flat? W. Band. bibliog Phys R 61:698-701 Je 1 '42
Law of gravitation; abstract. F. Zwicky. Science 96:sup8 O 23 '42
New determination of the constant of gravitation. P. R. Heyl and P. Chrzanowski. diags J Research Nat Bur Stand 29:1-31, pl 1-2 Jl '42
See also
Falling bodies

GRAVITY
Matter waves and electricity. C. Lanczos. bibliog Phys R 61:713-20 Je 1 '42

GRAY
Dyeing with sulphur dyes with special reference to khaki, blue and grey shades. H. Boothroyd. Soc Dyers & Col J 58:25-7 F '42; Same. Textile Col 64:296-9 Je '42; Discussion. Soc Dyers & Col J 58:27-8 F '42
How many tones? determining graduation of gray seen in prints by persons with normal sight. E. Leighten. il Photo Tech 3:37-9 D '41
New machine tool gray; standard color for machine tools. W. E. Whipp. Am Mach 86: 52 F 5 '42

GRAY iron. See Cast iron

GRAY iron founders' society
Annual meeting, Cleveland, Oct. 20. Foundry 69:57+ D '41
Annual meeting, 14th, Cleveland, Oct. 9. Foundry 70:78-9, 155-6 N '42; Steel 111:58-9 O 19 '42

GRAYFISH liver oil. See Dogfish liver oil

GRAYING of hair. See Hair

GRAZING
See also
Grass lands
Ranges

GREASE
American balance sheet in oils and fats. W. J. Murphy. Chem Ind 50:623-4 My '42
Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter
See also
Lubricating greases
Sewage disposal—Grease and oil removal

Analysis
Determination of grease in sewage, sludge, and industrial wastes. R. Pomeroy and C. M. Wakeman. bibliog Ind & Eng Chem Anal ed 13:795-801 N 15 '41

GREASEPROOF paper. See Paper, Greaseproof

GREAT Atlantic and Pacific tea company
A.&P. co-op flops; chain drops plan to market big share of nation's produce through Atlantic commission. Business Week p54+ Mr 21 '42
A. & P. on the spot. Business Week p56 N 7 '42
Marvel mixup; antitrust case hinging on A. & P.'s cut-price bread loaf. Business Week p59-60 Ap 4 '42
Pledges aid to prevent unwarranted price increases. Comm & Fin Chr 155:88 Ja 6 '42
Rise in payment to growers. Comm & Fin Chr 156:253 Jl 20 '42
Secondary offering. Comm & Fin Chr 156: 1502 O 26 '42

GREAT BEAR lake
Discovery and development of radium at Great Bear lake. C. Camsell. il Franklin Inst J 233:545-57 Je '42

GREAT BRITAIN
See also
Banks and banking—Great Britain
Bonds, Government—Great Britain
Coal trade—Great Britain
Container industries—Great Britain
Cotton trade—Great Britain
Electricity supply—Great Britain
Finance—Great Britain
Food supply—Great Britain
Labor and laboring classes—Great Britain
National parks and reserves—Great Britain
Railroads—Great Britain
Science—Great Britain
Securities—Great Britain
Taxation—Great Britain
Trade unions—Great Britain
Unemployment—Great Britain
Workmen's compensation—Great Britain
World war, 1939—Great Britain

Air force
Air estimates. Engineer 173:225-6 Mr 13 '42
American aircraft training in the RAF; centers for preparing RAF maintenance and flying personnel to work with the American airplanes. M. C. Cave. il Aviation 41:94-5+ Jl '42
American airplanes on the European battlefront. M. V. Cave. il Aviation 41:54-5+ Mr '42
British service teams study American aircraft. il Aviation 40:70+ D '41
Crashed planes fly again; Britain's nationwide repair system. il Aero Digest 40:88, 91 My '42
Echelon of the R.A.F.; war-time repair and maintenance organization. J. I. Waddington. il Aviation 41:122-3+ Mr '42
How the R.A.F. works. A. H. Narracott. 158p $2 S. J. Reginald Saunders, 84 Wellington st. W, Toronto '41
Maintenance of American aircraft with the R A F; British establish separate organization for training of specialists. M. W. Bourdon. il Automotive & Aviation Ind 87: 19+ Ag 15 '42
Men of the R.A.F. W. Rothenstein; D. Cecil. 134p $3 Oxford '42
Question of a separate air force. C. Caldwell. Aero Digest 39:70, 73-4 D '41
Rebirth of the R.A.F. il Aviation 41:136-7+ Ja '42
R.A.F. film production unit. For Comm W 8: 26 Ag 8 '42
Tactics and unorthodox aircraft. O. Stewart. il Aviation 41:76-7 Je '42

Antiquities
Ancient England; a review of monuments and remains in public care and ownership. E. Vale. 151p 10s 6d B. T. Batsford, London '41

GREAT BRITAIN—*Continued*

Army

Commando attack. G. Holman. 258p $2.50 Putnam '42
Need for skilled men in British armed forces. Monthly Labor R 53:1403-5 D '41
Royal electrical and mechanical engineers. Inst E E J 89 pt 1:373-4 S '42
Skilled men in the forces; proposed Corps of mechanical engineers. Elec R (Lond) 130: 271 F 27 '42

Pay, allowances, etc.

Increased allowances for dependents in British military forces. Monthly Labor R 54: 388-9 F '42
Nest-eggs. Economist 142:217 F 14 '42
Reward of service. Economist 143:292-3 S 5 '42

Civilization

Sweden speaks. G. Witting, ed. 212p 8s 6d G. Allen & Unwin, London '42

Colonies

British colonial empire. W. E. Simnett. 255p bibliog(p229-49) $3 Norton '42
British colonial social policy. Int Labour R 45:176-9 F '42
British empire before the American revolution; v. 5, Zones of international friction; the Great Lakes frontier, Canada, the West Indies, India, 1748-1754. L. H. Gipson. 352p $5 Knopf '42
Colonial administration. Economist 142:677 My 16 '42
Colonial commandos? Economist 142:597 My 2 '42
Colonial melting pot. Economist 142:310-12 Mr 7 '42
Helping the colonies. Economist 142:319 Mr 7 '42
Labour in the colonies. Economist 141:557-8 N 8 '41
Mobilising the colonies. Economist 142:352 Mr 14 '42
No change for the colonies? Economist 143:7 Jl 4 '42
Plainspoken truth; reply to editors of Life. Economist 143:469-70 O 17 '42
Position of colonies in a British commonwealth of nations. Hailey. 42p pa 70c Oxford '41
Test in Africa. Economist 143:228-9 Ag 22 '42
See also
Jamaica
Labor and laboring classes—Jamaica

Commerce

Britain's trade in the post-war world. 35p pa 25c Nat. planning assn, Washington, D.C. '41
Economic future of Britain. V. L. Horoth. Mag of Wall St 71:109-11+ N 14 '42
Engineering outlook. Engineering 153:64-5 Ja 23 '42
Government in foreign trade; United Kingdom commercial corporation. Economist 142: 77-8 Ja 17 '42
Overseas trade statistics; figures for certain exports to France and Italy, 1939 and 1940. Economist 143:281 Ag 29 '42
Private traders. Economist 143:421-2 O 3 '42

Commercial policy

Exports to the United States. H. Johnstone. Engineering 152:315 O 17 '41
Post-war export planning; abstract. R. Huntley-Davidson. Economist 141:636 N 22 '41
Trade policies of foreign countries during 1941. H. Chalmers. For Comm W 6:6-7+ Ja 24 '42
See also
Tariff—Great Britain

Defenses

Home guard's third year. Economist 142:673-4 My 16 '42

Economic conditions

British profits ebb. Business Week p41-2 Ap 11 '42
Sales manager's job in England today. W. K. Fudge. il Sales Management 50:24-6 F 1 '42
Street scene, London. J. L. Wick. il Banking 34:28 Ap '42

Economic history

Economic history of England. F. C. Dietz. 616p $3 Holt '42

Economic policy

Britain organizes its production regionally. K. O. Horton. For Comm W 9:10-12+ O 17 '42
Britain's cost of living control. F. B. Makin. il Banking 34:31-3 Ja '42
British economic controls tightened. For Comm W 5:3+ N 15 '41
Concentration of industry. Economist 141: 615-16 N 22 '41
Democracy's other war. 63p pa 1s Argus press, London '42
Draco antipodensis; Mr Curtin's plan of economic control. Economist 142:248 F 21 '42
How Britain meets problems like ours; methods of handling wage rates and labor relations, shortages of materials, and nonessential businesses. H. Lawrence. Barron's 21:3 D 1 '41
Preview from Britain. Business Week p30 D 20; 34 Ja 10; 34 Ja 31; 34 F 28; 46 Ap 4; 34 Ap 25 '42
Progress of concentration. Economist 143:260-1 Ag 29 '42
Reconstruction planning in Great Britain. Int Labour R 46:445-50 O '42
Reconstruction; report by the Federation of British industries. Engineering 153:476-7, 496-7 Je 12-19 '42
Seven changes in England; abstract. A. Nevins. Trusts & Estates 74:31 Ja '42
Wartime production of civilian goods in England. Manuf Rec 111:34-5 O '42
What it will be like in the new Britain. R. Acland. 185p 3s 6d V. Gollancz, London '42

Economic warfare, Ministry of

Economic warfare. Economist 141:749 D 20 '41

Executive departments

Advisory bodies; a study of their uses in relation to central government, 1919-1939. R. V. Vernon and N. Mansergh, eds. 520p $5 Norton '40
Controllers; with list of names and previous business affiliations. Economist 142:417-18 Mr 28 '42

Foreign office

Reform of the Foreign office. Economist 142: 745-6 My 30 '42

Foreign relations

Britain and Europe, 1900-1940. D. Jerrold. 195p $2.50 William Collins sons & co, 70 Bond st, Toronto, 2 '41
Diplomats and people. Economist 142:33-4 Ja 10 '42
Facing the facts in foreign policy; a retrospect and a prospect. A. Cecil. 129p 5s Eyre and Spottiswoode, London '41
Inter-war delusions. Economist 142:2-4 Ja 3 '42
Twenty years' armistice, and after; British foreign policy since 1918. C. A. Petrie. 296p $2.50 William Collins sons & co, 70 Bond st, Toronto, 2 '40
See also
World war—Great Britain

Near East

Middle East; its power politics; intrigue and the strong man are the keys. R. Strausz-Hupé and R. S. Nathan. il map Fortune 26:92-5+ N '42

Russia

Britain and Russia sign 20-year alliance treaty. Comm & Fin Chr 155:2399 Je 25 '42

GREAT BRITAIN—Foreign relations—Russia—*Continued*

Co-operation through understanding; British War News now to appear in Russia. Economist 142:535 Ap 18 '42

Treaty with Russia. Economist 142:815-16 Je 13 '42

United States

American proposal; room for democracy and economic freedom in a shrunken world if we agree with Britain to let it expand. Fortune 25:59-63 My '42; Discussion. S. A. Stritch. 25:112 Je '42

Between friends; problems which will arise from presence of Allied forces in Britain. Economist 143:102 Jl 25 '42

Fortune survey in Britain; the future of Anglo-American relations as seen from the Anglo angle. Fortune 26:12+ S '42

Fortune survey; political relations with Britain. Fortune 25:111 Ap '42

In the public mind; we compare notes with Canada and check the results against the opinions of America's business and intellectual leaders. Fortune 25:8-10+ Je '42

Relations with Britain; report based on the findings of a committee of editors. R. L. Buell. il Fortune 25:supp 1-21 My '42

U.S.—British accord on lend-lease aid; text of Anglo-American pact. Comm & Fin Chr 155: 953 Mr 5 '42; Same. For Comm W 6:3+ Mr 7 '42; Abstract. Oil Paint & Drug Rep 141: 3+ Mr 2 '42

History

Relations with Britain; report based on the findings of a committee of editors. R. L. Buell. il Fortune 25:supp 1-21 My '42

History, Military

Englishman at war, the weather in his soul; an anthology. J. Freeman, ed. 190p 7s 6d G. Allen & Unwin, London '41

Industries and resources

Case for concentration; cocoa and chocolate trade. Economist 142:251 F 21 '42

Early engineering and iron-founding in Cornwall. R. Jenkins. Engineering 154:304-5, 325-6 O 16-23 '42; Excerpt (pt 1). Engineer 174:327-8 O 16 '42

Here are the reasons why you must convert your plant to war production. il Steel 110: 22-4 Ap 27; 38-40 My 4 '42

How industry is regulated in wartime Britain. il Factory Management 99:77+ D '41

Importance of export for post-war reconstruction; need of research and skilled workers. A. P. M. Fleming. Engineering 154:187-8 S 4 '42; Abstracts. Elec R (Lond) 131:295-6 S 4 '42; Electrician 129:247-9 S 4 '42

Industrial concentration in Britain. Mod Packaging 16:68+ O '42

Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:82-8 Ja 25 '42

New British industry; diamond polishing. il Engineer 173:351-2 Ap 24 '42; Engineering 153:426-7 My 29 '42

Regional organisation for production. N. V. Kipping. Engineer 174:316-17 O 16 '42

Royal ordnance factories. Engineer 174:96-8, 121-2 Jl 31-Ag 7 '42; Engineering 154:115-16 Ag 7 '42; Discussion. A. Duncan. Engineer 174:131-2 Ag 14 '42

Textile revival; unusual (but not typical) turn in Britain's war business. Business Week p26+ My 30 '42

See also

Agriculture—Great Britain
Chemical industries—Great Britain
Coal trade—Great Britain
Electric industries—Great Britain
Foundries—Great Britain
Gas industry—Great Britain
Iron industry and trade—Great Britain
Labor and laboring classes—Great Britain
Plastic industries—Great Britain
Steel industry and trade—Great Britain

Labor, Ministry of

Ministry of labour appointments department; directory. Engineer 173:367 My 1 '42

Navy

Action stations! the Royal navy at war. H. G. Thursfield. 78p $2.50 Macmillan (Toronto) '41

Britannia has wings! the fleet in action, on, over and under the sea. A. S. Hurd. 112p 5s Hutchinson & co, London '42

British naval policy in the pre-dreadnought era; review of British naval policy, 1880-1905, by A. J. Marder. Engineering 152:383-4 N 14 '41

Entry and promotion in the Royal navy. Engineering 152:355 O 31 '41

Navy estimates. Engineer 173:204-5 Mr 6 '42

Royal navy at war. J. E. T. Harper. 71p $1.80 Transatlantic Arts, 69-81 108th st, Forest Hills, N.Y. '41

Rule Britannia. C. King. 280p $4.50 Studio publications, New York '41

Sea power. R. Grenfell. 244p $2 Doubleday '41

Sir Charles Parsons and the Royal navy. S. Goodall. diags Engineer 173:261-3, 281-2, 309-10 Mr 27-Ap 10 '42

Parliament

House of Commons. Economist 142:96-7 Ja 24 '42

Parliament and placemen. Economist 141:618-19 N 22 '41

Politics and government

War and politics; king, constitution, Parliament, pub—four pillars of Britain's democracy. il Fortune 25:100-5+ Ap '42

Statistics

Commercial history and review of 1941. Economist 142:sup3-30 Mr 14 '42

GREAT LAKES

Conservation of fisheries. Science 96:398 O 30 '42

See also

Shipping—Great Lakes

GREAT LAKES college, Ferndale, Michigan

War-training formula that works. G. E. Stedman. il Steel 111:54-5, 69, 72+ Jl 27 '42

GREAT LAKES naval training station. See Naval training station, Great Lakes, Illinois

GREAT LAKES utilities company

Liquidation program given approval of SEC. Comm & Fin Chr 155:1511 Ap 13 '42

Reorganization plan. Comm & Fin Chr 154: 1728 D 30 '41

Résumé of steps taken in reorganization and liquidation. Comm & Fin Chr 155:2366 Je 22 '42

GREAT northern railway

Great Northern's general mortgage bonds. Barron's 22:19-20 Mr 9 '42

High yield stocks. S. Devlin. Mag of Wall St 69:561 F 21 '42

Loses oil case. Comm & Fin Chr 155:600 F 7 '42

Railroad securities; Great Northern preferred. Comm & Fin Chr 155:2293 Je 18 '42

GREAT PLAINS region

Problems of range land tenure. C. W. Loomer. J Land & Pub Util Econ 18:214-17 My '42

See also

Agriculture—Great Plains region

GREAVES-WALKER, Arthur Frederick, 1881-

Sketch. por Min & Met 23:150 Mr '42

GREECE

See also

Food supply—Greece
George II, king of Greece
World war, 1939—Greece

GREECE—*Continued*

Antiquities

Annual of the British school at Athens, session 1938-1939. 112p 42s Macmillan '42

GREECE, Ancient

Iron and war; role of Greece in western civilization. F. T. Sisco. Min & Met 23:515 O '42

GREELEY, Samuel Arnold, 1882-

Sketch. por(p50) Civil Eng 12:51 Ja '42

GREEN, Arthur George, 1864-1941

Sketch. R. Brightman. Chem & Ind 60:773-4 O 25 '41

Sketch. K. H. Saunders. por Soc Dyers & Col J 57:364-6 D '41

GREEN

Persian berry extract. J. McCarthney. Textile Col 63:605-7 N '41

GREENBELT towns. See Housing projects, Government

GREENHOUSES

Heating and ventilation

Orchids in Oklahoma; greenhouse heating with gas. W. J. Douvall. il diags Gas Age 90:57-8 O 8 '42

GREENLAND

Arctic supply line; shortest and safest way to send aid to Russian and Chinese allies. V. Stefansson. map Fortune 26:64-6+ Jl '42

Greenland. V. Stefansson. 338p bibliog(p319-27) $3.50 Doubleday '42

GREENLEE automatic transfer machine

Mass production for the aircraft-engine industry; Wright aeronautical corporation. H. E. Linsley. il diags Mech Eng 64:100-5 F '42

GREENVILLE county, South Carolina

Community organization and adult education; a five-year experiment. E. de S. Brunner. 124p $2 Univ. of North Carolina press. Chapel Hill '42

GREENWICH royal observatory

Royal observatory, Greenwich. Science 96:276-7 S 18 '42

GREETING cards

Display contest wins good-will, sales; Gartner & Bender greeting cards. il Ptr Ink 200:47 Ag 7 '42

Millions for tribute. il Business Week p26 My 2 '42

GREY. See Gray

GREYHOUND corporation

Annual report. Comm & Fin Chr 155:1511-12 Ap 13 '42

Growth stocks and the investor. E. N. Chapman. Barron's 21:20 N 17 '41

Investment audit. H. J. Nelson. Barron's 22:20 Ja 5 '42

Stocks favored by special circumstances. E. A. Barnes. Mag of Wall St 70:194+ My 30 '42

GRIFFITH process. See Drying (meat)

GRIGNARD reagents

Abnormal Grignard reactions; enolizing and reducing action of Grignard reagents upon diisopropyl ketone. F. C. Whitmore and R. S. George. bibliog Am Chem Soc J 64:1239-42 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; compounds derived from the bromomagnesium enolates of alkyl dineopentylcarbinyl ketones. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1251-3 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the methyl-*t*-butylneopentylcarbinyl group and their bromomagnesium enolates. F. C. Whitmore and D. I. Randall. bibliog Am Chem Soc J 64:1242-6 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; methyl triethylcarbinyl ketone and its bromomagnesium enolate. F. C. Whitmore and C. E. Lewis. Am Chem Soc J 64:1618-19 Jl '42

Action of alkaline reagents on the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2120-3 S '42

Action of Grignard reagents on benzoylformanilides. R. F. Reeves and H. G. Lindwall. Am Chem Soc J 64:1086-9 My '42

Action of Grignard reagents on certain pentacenequinones, 6,13-diphenylpentacene. C. F. H. Allen and A. Bell. bibliog Am Chem Soc J 64:1253-60 Je '42

ortho Alkylation and arylation of mesityl aryl ketones. R. C. Fuson and S. B. Speck. Am Chem Soc J 64:2446-8 O '42

Behavior of pyrogallol trimethyl ether and 3,4,5-trimethoxybenzonitrile toward Grignard reagents. C. D. Hurd and H. E. Winberg. bibliog Am Chem Soc J 64:2085-6 S '42

Composition of alkylmagnesium chloride solutions in ethyl ether. C. R. Noller and A. J. Castro. Am Chem Soc J 64:2509-10 O '42

Decomposition of certain acetylenic carbinols. A. F. Thompson, jr. and C. Margnetti. bibliog Am Chem Soc J 64:573-6 Mr '42

Electrolysis of Grignard reagents; short-lived free radicals in ethyl ether. R. Pearson and W. V. Evans. bibliog Electrochem Soc Trans 82 (preprint 23):257-64 O '42

Grignard reactions; sterically hindered aliphatic carbonyl compounds; enolization studies. F. C. Whitmore and L. P. Block. bibliog Am Chem Soc J 64:1619-21 Jl '42

Lower aliphatic alcohols; application of the Zerewitinoff determination. W. Hollyday and D. L. Cottle. bibliog diag Ind & Eng Chem Anal ed 14:774-6 O 15 '42

Olefins and diolefins from allylic chlorides. A. L. Henne, H. Chanan and A. Turk. bibliog Am Chem Soc J 63:3474-6 D '41

Physiologically active phenethylamines containing a tertiary hydroxyl. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:2451-2 O '42

Reaction between cyclic β-diketones and Grignard reagents; 1,3-diketo-2,2-dimethylhydrindene. T. A. Geissman and V. Tulagin. Am Chem Soc J 63:3352-6 D '41

Reaction of epichlorohydrin with the Grignard reagent. J. K. Magrane, jr. and D. L. Cottle. bibliog Am Chem Soc J 64:484-7 Mr '42

Reaction of Grignard reagents with acyloxyanthrones. L. F. Fieser and H. Heymann. bibliog Am Chem Soc J 64:376-82 F '42

Reaction of β-isodurylaldehyde cyanohydrin with phenylmagnesium bromide. A. Weissberger and D. B. Glass. bibliog Am Chem Soc J 64:1724-7 Jl '42

Reaction of the Grignard reagent with esters of highly hindered acids. R. C. Fuson, E. M. Bottorff and S. B. Speck. bibliog Am Chem Soc J 64:1450-3 Je '42

Reductive cleavage of dioxolones by the Grignard reagent. R. C. Fuson and A. I. Rachlin. bibliog Am Chem Soc J 64:1567-71 Jl '42

Resonance and the hindered carbonyl-Grignard reaction. R. T. Arnold, H. Bank and R. W. Liggett. bibliog Am Chem Soc J 63:3444-6 D '41

Sterols; 17-methyl-pregnan-3(β)-ol-20-one and related compounds. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1273-5 Je '42

Sterols; the conversion of 5-pregnen-3(β)-ol-20-one to dehydro-iso-androsterone. R. E. Marker and others. Am Chem Soc J 64:1276-80 Je '42

Structure of the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2123-7 S '42

GRILLES

Performance of stack heads equipped with grilles. D. W. Nelson, D. H. Lamb and G. E. Smedberg. il diags Heating-Piping 14:61-8 Ja '42; Abstract. Sheet Metal Worker 33:36, 38, 40 Mr '42

GRINDELIA
Saponin from the species of grindelia. C. D. Mell. Textile Col 64:74 F '42

GRINDING
Blocks for grinding threading tools. D. E. McDonald. diag Am Mach 86:1232 O 29 '42
Dry vs. wet grinding of carbide tools. diags Iron Age 150:45-6 O 8 '42
Fine tool finish increases tool life 2000 per cent. C. J. Wiberg and W. K. Heath. il diags Iron Age 150:33-7 Jl 23 '42
Fixture for angle grinding dies. J. Dock. diags Am Mach 86:835-6 Ag 6 '42
Gear cutter grinding attachment. il Engineer 174:201 S 4 '42; Automobile Eng 32:411 O '42
Grinding, a practical aid to war production; analysis of comparative cost of finishing locomotive parts. H. H. Moor. il Ry Mech Eng 116:171-5 Ap '42
Grinding and machining cast resins. C. E. Holmes. diags Mod Plastics 20:76-7+ S '42
Grinding coal-car wheels concentric. il Mach 48:162 Je '42
Grinding rifle drills free-hand. il diags Iron Age 150:58-9 O 15 '42
Gyro chatter in grinding. W. E. Hoke. Am Mach 86:328 Ap 16 '42
Herbert gear-cutter grinding attachment. il Engineering 154:266 O 2 '42
Machining aided by chemical reactions; influence of electrolytes on grinding. Iron Age 149:43 Ap 16 '42
Machining forged A.P. shot; centerless grinding forged bar stock. J. B. Nealey. il diags Iron Age 150:39-44 Jl 30 '42
Machining on job saves time; repairing generator shaft by grinding. il Power Pl Eng 46:65 Ap '42
New conception in tool grinding; Bura-Way machine and method. il diags Iron Age 149:39-41 My 21 '42
Platens revivified; grinding process developed by Studebaker. il Business Week p66 O 24 '42
Recommended grinding procedure for wet or dry hand grinding carbide tools. diags Steel 111:74 S 28 '42
Set-up for grinding snap gages. G. Haessler. diags Am Mach 85:1264 D 10 '41
Spring center for lathe grinding. F. F. Anderson. diags Am Mach 86:445-6 My 14 '42
Trapping the sparks to salvage alloys from grindings. il Steel 110:64 Ap 20 '42
Wright's new precision tool grinding process. il Aero Digest 41:134+ O '42
See also
Abrasives
Grindstones
Honing
Lubrication and lubricants (cutting and grinding)
Machine shop practice
Polishing

GRINDING and crushing. See Crushing

GRINDING coolants. See Lubrication and lubricants (cutting and grinding)

GRINDING machines
Abrasive machine tool co. internal grinder. il Mach 48:162 Ag '42
Barnes improved cutter-grinding machine. il Mach 48:215-16 Ap '42
Bath universal tool and cutter grinder. il Automobile Eng 32:291-2 Jl '42
Cincinnati universal grinders. il Automobile Eng 32:7-8 Ja '42
Coolant clarification for grinding, honing, or superfinishing machines. Mach 48:151-2 Mr '42
Faster grinding; surface-coated abrasive belts instead of wheels. il Business Week p106, 108-9 S 12 '42
Fitchburg adjustable angular head grinding machine. il Am Mach 86:1255 O 29 '42; Mach 49:244 N '42
Fitchburg multiple precision grinders for gun barrels and spindles. il Mach 48:214 Ap '42
Gleason hypoid gear-tooth grinder. il Mach 48:163 Ja '42
Graphite as a lubricant for high speed tool drives. R. C. Newbury. il diag Iron Age 149:44-6 Mr 5 '42
Hammond carbide tool grinders. il Ry Mech Eng 116:114 Mr '42
Kendall and Gent face milling cutter grinding machine. il Automobile Eng 32:360-1 S '42
McQuade cylinder head seat grinder. il Ry Mech Eng 116:225 My '42
New conception in tool grinding; Bura-Way machine and method. il diags Iron Age 149:39-41 My 21 '42
New equipment. il Iron Age 149:69-71 Ap 9 '42
Newall universal grinding machine. il Automobile Eng 32:114-15 Mr '42
Sav-Way internal grinder. il Mach 48:176+ Je '42
16-in. wheel universal grinding machine. il Engineering 153:186-8 Mr 6 '42
Vernon universal tool and cutter grinder. il Mach 49:204 S '42
Wickman form grinder with pantograph-controlled optical checking instrument. il Mach 48:236-7 Jl '42; Am Mach 86:743 Jl 9 '42; Steel 111:115+ Jl 13 '42
See also
Grinding wheels
Lubrication and lubricants (cutting and grinding)
Machine shop practice
Polishing machines

Manufacture
Metallic arc welding used in fabrication special swing frame grinder; with cost data. J. S. Green. il diag Welding J 21:42 Ja '42

GRINDING mills
New all-glass mill. D. B. Pall. il diag Ind & Eng Chem Anal ed 14:345-8 Ap 15 '42
Story of paint mills. il diag Paint Oil & Chem R 104:10, 12, 14 Ap 23 '42
See also
Ball mills

GRINDING wheels
Balanced wheels give best work. H. J. Wills. il diags Am Mach 85:1309-11 D 24 '41
Grinding wheels; composition of abrasives from electric furnaces. A. G. Arend. il Elec R (Lond) 131:391-2 S 25 '42
Modern abrasives. H. C. Cooper. il diags J Chem Educ 19:122-8 Mr '42
Reclamation of grinding wheels. il Am Mach 85:1265-6 D 10 '41

Advertising
Launching a war baby; Por-os-way grinding wheel made by dental equipment manufacturer. R. N. D. Arndt. il Ind Marketing 27:20-1+ Ap '42

Failure
Grindstone failure. Safety Eng 84:59 O '42

Manufacture
Abrasive industry plays an important part in the war program; manufacturing processes at the Abrasive co. il Cer Ind 39:66, 68, 70, 72 O '42

Safety measures
Grinding wheels get rough treatment. D. A. Bary. Nat Safety N 45:88-90 Ja '42

Standards
Grinding wheel marking system; reference book sheet. Am Mach 86:1041 S 17 '42

Truing
Device for truing form-grinding abrasive wheel. D. Baker. diags Mach 48:133-4 D '41
Dressing compound angles and radii. N. Ingalls. diag Am Mach 86:444 My 14 '42
Setting diamonds in wheel-dressing tools. R. T. Jameson. diags Am Mach 86:884 Ag 20 '42
Shop-made radius dresser for grinding wheels. C. Neubert. diags Am Mach 86:60 F 5 '42

GRINDSTONES
Sandstone grindstones come back. B. Random. il Comp Air M 47:6837-40 S '42

GRIT chambers. See Sewage disposal—Grit chambers

GROCERIES

Prices

Study of Miami grocery prices. R. P. Wolff. 33p pa $1 Univ. of Miami, Coral Gables, Fla. '41

GROCERY stores

See also
Market stores

Lighting

Light sampler convinces grocers. il Elec W 117:2106+ Je 13 '42

GROCERY trade

Chain talks back; Safeway leads a new public relations trend. Business Week p53+ Ja 31 '42

Cooperative wholesaling in grocery distribution; a case study of White Villa grocers, inc. E. B. O'Leary. 130p $2 Bur. of business research, Ohio state univ, Columbus '42

Cooperatives to use standards for all grocery products. Ind Stand 12:307 N '41

Effective grocery wholesaling. W. H. Meserole and C. H. Sevin. (Economic ser. 14) 241p U.S. Bur. of foreign and domestic commerce, Washington; pa 40c Supt. of doc. '41

Green retail clerks: what to do about them, and how to do it. J. C. Cumming. Sales Management 51:46, 48-9 S 15 '42

Grocers' wartime problems. Barron's 22:12 S 28 '42

Inside story on the outside; Tom Boy stores labeling canned fruits and vegetables. R. A. Latimer. il Mod Packaging 15:40-2+ D '41

New idea book for food merchants. R. F. Linder, ed. 119p $3 Butterick co, 161 6th av, New York '41

Picture ahead for branded foods. G. Gore. Adv & Sell 35:16+ My '42; Same cond. Management R 31:210-12 Je '42

Small stores gain; effect of tire and gas rationing. Business Week p46 Ag 29 '42

Tire ban reduces jobber calls and deliveries, but orders are larger; more business for independents is major trend in food field. P. Salisbury. Sales Management 50:36+ Mr 1 '42

War booms grocers' sales. Barron's 22:6 F 23 '42

War comes to the grocery store. R. P. Wolff. il Dun's R 50:15-18+ My '42

See also
Butter
Canned food
Chain stores
Coffee trade
Eggs
Food industry and trade
Market stores
also Cooperative food distributors of America; Great Atlantic and Pacific tea company; Jewel tea company; Safeway stores, inc.

Advertising

Certified grocers stand pat: push national brands, continue advertising. J. M. Yunker. Sales Management 50:24-6 F 15 '42

Cutting cooperative advertising? then put your money in national. F. E. Fehlman. Sales Management 51:48, 50 Ag 15 '42

Finance

Factors affecting Kroger Grocery's earnings. Barron's 22:6 Mr 9 '42

How price ceilings may affect grocery companies. Barron's 22:6 My 11 '42

War comes to the grocery store. R. P. Wolff. il Dun's R 50:15-18+ My '42

California

Certified grocers stand pat: push national brands, continue advertising. J. M. Yunker. Sales Management 50:24-6 F 15 '42

War on discounts; independent grocers vs. chains. Business Week p85+ D 6 '41

Great Britain

Wholesale grocery wage agreement. Economist 143:119 Jl 25 '42

Miami, Florida

War comes to the grocery store. R. P. Wolff. il Dun's R 50:15-18+ My '42

GRONER, Powell Campbell, 1892-

Sketch. por Transit J 86:361 O '42

GROSS, Charles P. 1889-

Sketch. por(p260) Ry Age 113:261-2 Ag 15 '42

GROSZ, George, 1893-

Twelve artists in U.S. exile. Fortune 24:113 D '41

GROUNDING. See Electric distribution—Grounding

GROUNDNUT oil. See Peanut oil

GROUP health association, inc.

Anti-trust charges upheld against A.M.A. Comm & Fin Chr 156:111 Jl 9 '42

Health insurance upheld; anti-trust case against American medical association and District of Columbia medical society. Business Week p8 Je 20 '42

GROUP insurance. See Insurance, Group

GROUP riding. See Automobiles, Employees'

GROUPED measurements. See Frequency distribution (statistics)

GROUPS, Theory of

Group theory dilemma of Sophus Lie and Felix Klein. G. A. Miller. Science 95:353-4 Ap 3 '42

Nature of group theory. G. A. Miller. Science 95:96 Ja 23 '42

See also
Crystallography

GROUTING

Asphalt cutoff wall at Claytor dam; sand-asphalt mix used to stop underflow. H. S. Slocum. il diag Eng N 128:490-2 Mr 26 '42

Construction plant and methods, Friant dam. D. S. Walter. Civil Eng 12:260-1 My '42

Grouting checks foundation vibration; gas compressor station of the Cities service gas co. at Wichita. il Eng N 129:561-2 O 22 '42

Grouting tunnel lining on the Delaware aqueduct. il diags plan Eng N 128:19-21 Ja 1 '42

Pressure-grouting with cement-loam mixture restores settled buildings. il diags Concrete 50:2-3 N '42

Sliding plug for drill holes limits zone to be grouted; Shasta dam. il diag Eng N 128: 412-13 Mr 12 '42

Solving a mine-water problem at Mascot, Tennessee; grouting is employed to seal a crevice. W. Black. diags Eng & Min J 143: 46-8 O '42

Stopping leakage under Hales Bar dam. C. H. Vivian. il diags Comp Air M 47:6749-55 Je '42

GROWTH

Norms of growth. E. B. Wilson. Science 95: 112-13 Ja 30 '42

On growth and form. D. W. Thompson. new ed 116p 50s Cambridge univ. press, Cambridge, Eng. '42

Relation between nucleic acid and growth. A. M. Brues, M. M. Tracy and W. E. Cohn. bibliog Science 95:558-60 My 29 '42

See also
Plant growth

GROWTH promoting substances

Biosynthesis of biotin. R. E. Eakin and E. A. Eakin. bibliog Science 96:187-8 Ag 21 '42

Growth stimulants in the microbiological assay for riboflavin and pantothenic acid. J. C. Bauernfeind, A. L. Sotier and C. S. Boruff. Ind & Eng Chem Anal ed 14:666-71 Ag 15 '42

Growth-stimulating effect of biotin for the diphtheria bacillus in the absence of pimelic acid. V. du Vigneaud and others. Science 96:186-7 Ag 21 '42

Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

Growth stimulation of peas by tetrachloro-para-benzoquinone, a fungicidal seed protectant. G. L. McNew. Science 96:118-19 Jl 31 '42

GRUEN watch company

Credit congress visitors to inspect Time Hill. Credit & Fin Management 44:26-8 Ap '42

GUADALUPE mountains
Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26: 535-763 Ap '42

GUAIACUM
Stabilization of fats. H. S. Mitchell and H. C. Black. Oil Paint & Drug Rep 142:65 S 21 '42

GUANIDINE
Associating effect of the hydrogen atom; the N-H-N bond; benziminazoles, glyoxalines, amidines, and guanidines. L. Hunter and J. A. Marriott. Chem Soc J p777-86 N '41
Some mono- and disubstituted guanidines. J. S. Buck, R. Baltzly and C. W. Ferry. Am Chem Soc J 64:2231-2 S '42

GUANO
Union of South Africa guano-producing islands. For Comm W 6:17-18 Ja 17 '42

GUARANTY. See Suretyship and guaranty

GUARANTY of bank deposits. See Banks and banking—Guaranty of deposits

GUARANTY of policies. See Insurance—Guaranty of policies; Insurance, Life—Guaranty of policies

GUARANTY of products
Guarantees in advertisements as viewed by Federal trade commission. I. W. Digges. Ptr Ink 199:41-2 Je 12 '42
See also
Products, Certification of

GUARANTY of wages. See Wage payment plans—Guaranty of earnings

GUARANTY trust company of New York
Earnings, 1941; foreign branches except London closed. Comm & Fin Chr 155:443 Ja 29 '42

GUARDIAN and ward
Court recognizes value of corporate fiduciary; petition for appointment of father as guardian. Trusts & Estates 74:385 Ap '42
Guardian ad litem racket and suggested remedy. G. Newhall; B. B. Gilman. Trusts & Estates 75:187-9 Ag '42

GUARDIAN life insurance company of America
Annual report. Comm & Fin Chr 155:825 F 24 '42

GUATEMALA
See also
Botany—Guatemala
World war, 1939—Guatemala

Antiquities

Maya temple grows up; archeologists in Guatemala reveal evidence of five-times-reconstructed temple. L. Satterthwaite, jr. il diags Sci Am 167:18-19 Jl '42

Economic conditions

News by countries (cont). For Comm W 5: 14-15 N 29 '41; 6:17-18 Mr 28; 7:17 Je 13; 8:20 S 12 '42

GUAYULE
Acres for guayule. Business Week p68+ F 7 '42
Compounding of guayule rubbers; effect of accelerator-curing agent combinations. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 105:565-9 Mr '42
Compounding of guayule rubbers; effect of accelerator-curing agent combinations on the resistance to sunlight. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 107:31-2 O '42
Congress approves Guayule bill calling for cultivation of 75,000 acres. Rubber Age 50:367 F '42
Congress increases planting of guayule. Comm & Fin Chr 156:1434 O 22 '42
Downey guayule bill a law. India Rubber W 107:181 N '42
Growing rubber in North America. H. L. Trumbull. il(p 1328) Ind & Eng Chem 34: 1330 N '42
Guayule as a source of rubber. Chem & Met Eng 49:151-3 Ap '42
Guayule compounded with synthetic and natural rubbers. Sci Am 167:208 N '42
Guayule; government's program will be expanded. Rubber Age 52:55 O '42
Guayule planting. il Business Week p16-17 Mr 14 '42
Guayule production in Mexico; pictorial presentation. Rubber Age 51:491-3 S '42
Guayule project funds approved. Oil Paint & Drug Rep 141:5+ Je 22 '42
Guayule rubber; other proposed sources. F. Thone. Science 95:sup9 Ja 23 '42
Guayule rubber production project launched. India Rubber W 106:47-8 Ap '42; Excerpt. Comm & Fin Chr 155:1062 Mr 12 '42
Guayule rubber progress. Comm & Fin Chr 155:1445 Ap 9 '42
Guayule rubbers in wire and cable insulation. R. E. Morris and others. Rubber Age 51: 479-81 S '42
Guayule surprise. Business Week p24 O 3 '42
Insect enemies. Science 96:sup10 Jl 17 '42
Our rubber lifeline. J. R. Custer. il Automotive Ind 86:39+ Ja 15 '42
Planting completed in guayule rubber plan. Comm & Fin Chr 155:2310 Je 18 '42
Potential insect enemies of guayule. Rubber Age 51:482 S '42
Preparing latex from guayule; patent. India Rubber W 106:247 Je '42
President vetoes Guayule rubber bill; urges revisions. Comm & Fin Chr 155:847 F 26 '42
Rapid progress of guayule project. India Rubber W 106:150 My '42
Revised Guayule bill provides for planting in western hemisphere. Rubber Age 50:455 Mr '42
Rubber cultivation pushed in Congress. Oil Paint & Drug Rep 141:5+ F 23 '42
Studies in compounding guayule rubber. E. A. Hauser and D. S. le Beau. India Rubber W 106:447-9 Ag '42

Bibliography

Guayule. A. J. Blanchard, comp. (Soil conservation bibliog. 4) 53p U.S. Soil conservation service, Washington '42

GUERRILLAS
Guerrilla warfare. B. Levy. 96p pa 25c Penguin books, New York '42
We are guerillas; an account of the work of soviet guerillas behind the Nazi lines. 64p 6d Hutchinson & co, London '42

GUEST houses
Boat garage, living-dining-sleeping room: guest house in Cazenovia, N.Y. il plans Arch Forum 76:184 Mr '42

GUGGENHEIM, Daniel
Gift of Daniel Guggenheim estate at Sands Point, L.I. to the Institute of the aeronautical sciences. Science 95:642 Je 26 '42

GUGGENHEIM, Daniel, medal
Daniel Guggenheim medal awarded to Brigadier General Doolittle. il Aeronautical Eng R 1:119-20 Ag '42

GUGGENHEIM, Florence Shloss, 1863-
Gift to Institute of the aeronautical sciences. por Aeronautical Eng R 1:5-9 Jl '42

GUGGENHEIM, John Simon, memorial foundation
Fellowships in science awarded by the Guggenheim foundation. Science 95:436-8 Ap 24 '42

GUGGENHEIM, Simon, 1867-1931
Appreciation. F. H. Brownell. Eng & Min J 142:68 D '41
Appreciation. H. Y. Walker. Min & Met 23: 49-50 Ja '42

GUGGENHEIM process. See Sewage disposal—Guggenheim process

GULF coast
Source of beach and river sands on Gulf coast of Texas. F. M. Bullard. bibliog maps Geol Soc Bul 53:1021-43, pl 1-3 Jl '42
What's needed in the Gulf. W. Chatfield-Taylor. For Comm W 6:3+ Ap 4 '42
See also
Petroleum—Gulf Coast region

GULF, Mobile and Ohio railroad
ICC denies Coverdale directorship. Comm & Fin Chr 155:2457 Je 29 '42
Rail securities for appreciation. S. Devlin. Mag of Wall St 70:570 S 5 '42

GULF of Mexico
See also
Gulf coast

GULF oil corporation
Another look. Mag of Wall St 69:170 N 15 '41

GULF pulp and paper company, limited
Officers and operating executives; portraits; recent improvement at Clarke City, Que. J. A. Tallon; E. Overstrom. Pulp & Pa of Can 43:292-7 Mr '42

GULLIES. See Erosion

GULLS
Improved wire suspension plan keeps sea gulls off reservoir. il Eng N 128:500 Mr 26 '42

GULOHEPTOSE
Sugar acetates, acetylglycosyl halides, and orthoacetates in relation to the Walden inversion. H. L. Frush and H. S. Isbell. bibliog pl J Research Nat Bur Stand 27:413-28 N '41

GUM arabic
Disappearance of purified acacia from the cerebrospinal fluid of dogs. B. E. Abreu and R. B. Aird. bibliog Univ of Calif Pub in Pharmacology v 2, no 6:79-82 '41
Gum arabic in Anglo-Egyptian Sudan. For Comm W 7:29 Je 20 '42

GUMMED paper. See Paper, Gummed

GUMS and resins
Grading pinetree gum. J. E. Lockwood. Oil Paint & Drug Rep 142:4+ Ag 31 '42
Indian resins; the basis of a plastics industry. Chem Age (Lond) 47:295-6 O 3 '42
Manila gums; the use of Manila copals in bright drying floor waxes. R. W. Allan. bibliog il Soap & San Chem 17:118-21+ D '41
Natural resins use restricted. Oil Paint & Drug Rep 141:7+ Ap 20 '42
Poly-pale resin derived from gum or wood rosin. J. M. Crowe. Chem Ind 50:64 Ja '42
Production of gums used by the paint industry, jutahycica and jatoba, in Brazil. For Comm W 7:24 Ap 18 '42
Recent progress in the chemistry of the pectic materials and plant gums. E. L. Hirst. Chem Soc J p70-8 F '42; Abstract. Soc Dyers & Col J 58:98 My '42
Recovery of fats, waxes, resins, and turpentine from wood. M. W. Bray. bibliog Paper Tr J 115:41-2 S 3 '42
Sapogenins; the position of the double bond in acids of the β-amyrin group; glycyrrhetic acid, siaresinolic acid, and acids of elemi resin. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p532-50 S '42
Technology of natural resins. C. L. Mantell and others. 506p bibliog(p475-6) $7 Wiley '42
Triterpene group; the constitution of breïn and maniladiol. I. M. Morice and J. C. E. Simpson. Chem Soc J p198-203 Mr '42
Upgrading oleoresin by a new process; developed by the Naval stores station of the U. S. Department of agriculture. J. O. Reed. bibliog il Chem & Met Eng 48:68-70 D '41
Varnish gums from war areas. Chem & Ind 61:134 Mr 14 '42
Vinsol resin, extender and modifier; extracted from southern pine wood. il Mod Plastics 19:59+ Je '42
What you can use; materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:42 Mr 23; 53 Ap 13; 44 Ap 27; 77 My 11; 60 My 25; 62 Je 8; 71 Je 15 '42
See also
Copal
Dammar gum
Gasoline—Gum formation
Lac
Naval stores
Resinous products
Rosin
Shellac
Tragacanth

Analysis
Content of *l*-pimaric acid in pine oleoresin; improved methods for its determination. E. E. Fleck and S. Palkin. bibliog Ind & Eng Chem Anal ed 14:146-7 F 15 '42

Statistics
Botanical drugs, spices, and gums. Published in weekly numbers of Oil, paint and drug reporter

GUMS and resins, Fossil
American source of natural resins for the paint and varnish industry; fossil resins recently discovered in Utah. A. Nagelvoort. flow sheet il map Chem & Met Eng 49:80-2 O '42

GUMWOOD
Bleaching gumwood sulphate pulp. J. D. Rue and S. C. Nagel. Paper Tr J 115:29-34 Ag 6 '42
Creosoted black gum bridge floors. Pub Works 72:30 N '41
Gum ties on the Missouri Pacific. W. J. Burton. Ry Age 112:334-5 F 7 '42

GUN carriages
Gun carriages; aluminum castings replaced with welded steel designs. diags Product Eng 12:640-1 D '41

Manufacture
Mass production of anti-aircraft gun carriages. J. B. Nealey. il Iron Age 149:52-7 Je 18 '42
Mohawk Valley plan speeds production 55 per cent; advances delivery five months. Steel 110:87+ Ap 13 '42
New plants of 1941; gun mounts and carriages. il Factory Management 100:B65 Ap '42

GUN floater policy. See Insurance, Inland marine—Policies—Gun floater policy

GUN metal
Properties of sand-cast low tin alloys. F. Hudson. Foundry 70:83-5, 167-9 O '42; Same. Steel 111:80, 82, 85+ N 2 '42

GUNITE
Contractor invades territory of general mud; grade separation project in Arizona. P. F. Glendening. il Roads & Sts 85:25-30 Ap '42
First prestressed gunite water tank for a Canadian municipality; Ste Anne de Bellevue, Que. E. Fancott. il Water & Sewage 80:17+ My '42
Irrigation conduit gunited on simple movable forms. C. R. Browning. il Civil Eng 12:272-3 My '42
Lining a concrete reservoir. H. J. Cook. diag N E Water Works Assn J 56:70-5 Mr '42
Lining sewer with preformed gunite. diag Pub Works 73:32-3 Jl '42
Rubberized cotton fabric balloons used in construction of defense homes; used as forms for concrete; Falls Church defense homes project. il Rubber Age 50:189-90 D '41; Same cond. Concrete 50:8 Ap '42
Use of gunite in mines. C. Dobell. Can Min J 63:513-14 Ag '42

GUNNERY
Elementary mathematics in artillery fire. J. M. Thomas. 256p $2.50 McGraw-Hill '42
Propelling the projectile. A. F. Macconochie. il diags Steel 109:60-3+ D 8 '41

GUNPOWDER
Chemist in three wars; Civil war. O. Eisenschiml. Science 96:348-9 O 16 '42
Complete guide to handloading. P. B. Sharpe. 2d ed rev & enl 465p, 72p $7.50 Funk & Wagnalls co, New York '42
Explosives opened up new frontiers of peace as well as the conquests of war. J. Early. il Barron's 22:8 F 16 '42
Propelling the projectile. A. F. Macconochie. il diags Steel 109:60-3+ D 8 '41
See also
Smokeless powder

GUNS

Dry ice now used in .22 caliber guns; invention of R. J. Monner. L. Y. Yont. il Refrig Eng 44:91+ Ag '42

See also

Rifles

GUNS (ordnance)

Sedgley sub-machine gun. A. F. Macconochie. il Steel 109:64-5+ N 24 '41

Wave action in gun run-up springs. H. G. W. Taylor. diags Inst Mech Eng J & Proc 145:Proc 150-9 S '41; Discussion. 146:Proc 183-7 F '42

See also

Firearms
Guns, Aircraft
Guns, Anti-aircraft
Machine guns

Manufacture

Big forging for tank gun. H. Chase. il Am Mach 85:1334 D 24 '41

Broaching of rifling in cannon. H. F. Safford. il Mech Eng 64:113-17 F '42

Carboloy introduces small caliber gun drills. il Iron Age 150:64 S 17 '42

Casting guns centrifugally at Watertown. R. W. Case. il Foundry 70:62-3+ F '42

Cemented carbide gun drills. W. R. Meyer and W. A. Kimsey. il diags Iron Age 150:53-7 Ag 13 '42

Floor waxers to gun parts; plant conversion. il Steel 110:30-3 Mr 16 '42

Gage designed for sizing ball races of gun turrets. K. Strayer. il diag Mach 49:135-6 S '42

Gets into gun production rapidly by subcontracting 462 out of 471 parts; Oldsmobile. il Am Mach 86:588-91 Je 11 '42

Getting out the guns; prime contractor finds use of standards makes subcontracts click. T. R. Jones. il Ind Stand 13:160-2 Je '42

Gun manufacture. 138p $1 McGraw-Hill '42

Guns cast centrifugally. C. T. Harris, jr. il Am Mach 86:822-3 Ag 6 '42

Heat treating gun tubes. Metals & Alloys 15:1004 Je '42

Pack howitzer production; General electric co. il diags Steel 109:50-2+ D 22 '41

GUNS, Aircraft

Ammunition cases for fighter aircraft; as made by Curtiss-Wright. G. Smith. il Steel 110:60, 62+ F 2 '42

Bristol hydraulically-operated aeroplane gun turret. il(p450) Engineering 152:446-7 D 5 '41

Development of Bristol aircraft gun turrets. il Engineer 172:357-8 N 21 '41

Fire power of allied planes. J. I. Waddington. il Aero Digest 40:143+ Ap '42

Fleetwings; hydraulic gun-charging valve. J Aeronautical Sci Aeronautical R Sec 9:34 N '41

Growth of fire power in navy planes. J. B. Hancock and E. Burton. il Aero Digest 40:70-1+ F '42

Manufacture

Aircraft machine guns replace automotive accessories at Brown-Lipe-Chapin plant. J. Geschelin. il Automotive & Aviation Ind 87:18-21+ Jl 1 '42

Cannon for aircraft; International harvester company. il diags Am Mach 86:715-29 Jl 9 '42

GUNS, Anti-aircraft

Ack-ack production increased thirty-fold. il Steel 111:54-5 S 21 '42

Anti-aircraft: the U.S. backed wrong guns. il Fortune 24:74 D '41

Manufacture

Automotive methods on Oerlikon guns; Pontiac motor division of General Motors. il diags Am Mach 86:65-78 F 5 '42

Conversion of machine tools calls for fine ingenuity; making parts for anti-aircraft cannon. Sci Am 167:8 Jl '42

Equipment builder converts plant to manufacture guns; illustrations with text. Steel 110:26-9 Mr 23 '42

Guns to arm our merchant marine; plant set up by the Pontiac motor division. C. O. Herb. il Mach 48:107-22 Ja '42

Machining 37-mm. gun barrels; illustrations with text. Iron Age 149:42-5 Mr 19 '42

Mass production of anti-aircraft gun carriages. J. B. Nealey. il Iron Age 149:52-7 Je 18 '42

Mass production of anti-aircraft guns. il Manuf Rec 111:28-9+ Jl '42

Pontiac concentrates on Oerlikon anti-aircraft guns. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ Ag 1 '42

GUTTERS (roof)

How to make built-up wood gutters. diags Am Bld 64:87-8 Mr '42

Paper for roof valleys instead of metal. diag Am Bld 64:81 My '42

GUYS

Corner guying calculator. V. W. Palen. diags Elec W 118:634-5 Ag 22 '42

Distribution of wind stresses in mast guys. C. M. Goodrich. Civil Eng 12:517-18 S '42

Guying data. Elec W 117:1692 My 16 '42

How to install anchor guys. diags Elec W 118:804 S 5 '42

Typical standard for head guys. diag Elec W 117:2092 Je 13 '42

GYMNASIUMS

High school gymnasium, The Dalles, Ore.; views and plan. Arch Rec 90:78-9 D '41

Measured stresses in a two-hinged beam arch; Purdue University field house. P. E. Soneson. il diags Civil Eng 12:209-12 Ap '42

Heating and ventilation

High velocity air circulation solves problem of heating large gym or armory; system used in Northwestern university's Patten gym. il diag Heating-Piping 14:30-1 Ja '42

GYMNASTICS

Gymnast's manual. W. D. West. 326p bibliog(p316-17) $3.25 Prentice-Hall '42

GYMNOCLADUS dioica. See Kentucky coffee tree

GYPSOPHILA

Saponin from the species of gypsophila. C. D. Mell. Textile Col 63:663-4 D '41

GYPSUM

Gypsum in the sulphate recovery process. T. T. Collins, jr. H. J. Hotz and E. Wiberg. bibliog Paper Tr J 114:39-41 My 7 '42

Gypsum trust sued in civil proceedings. Oil Paint & Drug Rep 142:5+ S 28 '42

Gypsum trust suit ends in acquitals. Oil Paint & Drug Rep 140:3 N 24 '41

Lateral gradation in the Seven Rivers formation, Rocky Arroyo, Eddy county, New Mexico. R. L. Bates. bibliog il maps Am Assn Pet Geologists Bul 26:80-99 Ja '42

Strong plaster for paperless wallboard; new process of gypsum manufacture involves cooking raw gypsum in Epsom salts solution. W. A. Cunningham. flow sheet il Rock Prod 45:50-3 Ap '42

Use of gypsum in the kraft process. O. Kress and W. H. Aiken. bibliog Paper Tr J 113:41-4 N 13 '41

See also United States gypsum company

Analysis

Proposed method of test for calcium sulfate in gypsum and gypsum products by the ammonium acetate method. Am Soc T M Proc 41:293-4 '41

GYPSUM products

Substitute for metal in heating work; cold-air returns of sheetrock; United States gypsum co.'s remodel research house. il diag plans Sheet Metal Worker 33:23-4+ Ag '42

Advertising

Gypsum house organs in publications do educational job; builders and architects shown how extensive line of USG products may be used to achieve desired results. H. O. Hayes. il Ind Marketing 27:20-1 Jl '42

GYRO compass

Compass floats on air; Sperry gyro compass; patent. diag Machine Design 14:124+ Ja '42

GYROMAGNETIC effects. See Magnetism

GYROPLANES

See also

Autogiros

GYROSCOPE

Regulates gyroscope speed; patent assigned to Bendix aviation corp. diag Machine Design 14:248 O '42

See also

Sperry corporation

Bibliography

Flight instruments; gyroscopic. J Aeronautical Sci Aeronautical R Sec 9:51, 53+ D '41

H

H-1 solution

Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

HAAS, Francis Joseph, 1889-

Portrait. Business Week p58 My 23 '42

HABIT

Capitalize on human nature and get action from advertising. R. Manville. Ptr Ink 200:48 Jl 3 '42

HACKENSACK, New Jersey

Sewerage

Ironing out the operation of the new activated sludge plant at Hackensack; abstract. A. F. Lehmann. Water Works & Sewerage 89:113 Mr '42

HAFNIUM

Analysis

Ferrocyanide method for separation of hafnium from zirconium. W. C. Schumb and F. K. Pittman. Ind & Eng Chem Anal ed 14:512-15 Je 15 '42

HAGERSTOWN, Maryland

Successful city-wide sub-contracting program; nearly all of Hagerstown's factory labor is now engaged in aircraft production. il Aero Digest 41:222 O '42

HAID, Paul L. 1887-1942

Sketch. por East Underw 43:1, 17+ S 4 '42; Nat Underw 46:3+ S 3 '42; Weekly Underw 147:488+ S 5 '42

HAIDINGER interference. See Interference (light)

HAIL insurance. See Insurance, Hail

HAIR

Germs may be at the root of the gray hair problem; abstract. G. J. Martin. Science 95: sup8+ Ap 10 '42

Gray hair darkened by doses of vitamin B; abstract. G. J. Martin and S. Ansbacher. Sci Am 166:120 Mr '42

Graying of hair. O. S. Gibbs. Science 95:576 Je 5 '42

HAIR pins

WPB coiffure; crackdown on bobby pins. Business Week p30 My 23 '42

HAIRDRESSING

Hairdressing wages. Economist 142:620 My 2 '42

HAITI

Haiti-U.S. defense and trade plan. Comm & Fin Chr 155:1631 Ap 23 '42

Economic conditions

News by countries (cont). For Comm W 5: 22-3 N 15 '41; 7:15-16 My 30; 8:19-20 Jl 11; 13-14 S 26 '42

HALE, Sydney Arthur, 1888-1942

Sketch. por Coal Age 47:39 S '42

HALEAKALA, Mount

Origin of Haleakala crater, Island of Maui, Hawaii. H. T. Stearns. bibliog il Geol Soc Bul 53:1-13, pl 1 Ja '42

HALFTONES. See Photoengraving

HALIDES

Dipole moments and structures of five organometallic halides. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:173-5 Ja '42

Dissociation of hexaarylethanes; ethanes derived from mixtures of triaryl halides. C. S. Marvel and C. M. Himel. Am Chem Soc J 64:2227 S '42

Effect of metallic halides on the reaction of organolithium compounds with alkyl and aryl halides. M. S. Kharasch and W. B. Reynolds. Am Chem Soc J 63:3239 N '41

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Electric moments of inorganic halides in dioxane; phosphorus, arsenic and antimony trihalides. P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:614-17 Mr '42

Halogen addition to ethylene derivatives; the mechanism of the halide ion catalyzed addition reaction. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:704-8 Mr '42

Red silver glasses. E. Forst, jr. and N. J. Kreidl. bibliog Am Cer Soc J 25:278-80 Je 1 '42

See also

Alkali metal halides
Alkyl halides
Ammonium halides
Bromides
Chlorides
Fluorides
Grignard reagents
Hydrogen halides
Iodides
Salt

Analysis

Estimation of bromides in the presence of other halides. P. L. Kapur, M. R. Verma and B. D. Khosla. bibliog Ind & Eng Chem Anal ed 14:157-8 F 15 '42

HALIFAX, Edward Frederick Lindley Wood, 3d viscount, 1881-

Viscount Halifax; a biography. A. C. Johnson. 575p $3.75 Ives Washburn, New York '41

HALL, George Martin, 1891-1941

Memorial. J. T. Singewald, jr. bibliog por(pl) Geol Soc Proc 1941:173-6 Mr '42

HALL effect

Hall effect and conductivity of cuprous oxide. S. J. Angello. bibliog diags Phys R 62:371-7 O 1 '42

HALLEY, Edmund, 1656-1742

Galileo, Newton, and Halley. Engineering 154: 334-5 O 23 '42

HALOFORM reaction

Mechanism of the haloform reaction; the preparation of mixed haloforms. J. G. Aston and others. Am Chem Soc J 64:1413-16 Je '42

HALOGEN compounds

Bis(amino acid) derivatives; diglycine halogen acid addition products. W. S. Frost. Am Chem Soc J 64:1286-7 Je '42

Coupling of *m*-halogenophenols with diazotised aniline, and the existence of chromoisomerism among the 3-halogeno-4-benzeneazophenols. H. H. Hodgson and G. Turner. Chem Soc J p433-5 Jl '42

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Heat capacity of certain halomethanes. G. Glockler and W. F. Edgell. bibliog il Ind & Eng Chem 34:532-4 My '42

Ketene acetals; the reaction of ketene diethylacetal with various halogen compounds and acids. S. M. McElvain and D. Kundiger. bibliog Am Chem Soc J 64:254-9 F '42

Magnitude of the solvent effect in dipole-moment measurements; determination of distortion polarisation and its additivity in the alkyl and aryl halides. A. Audsley and F. R. Goss. Chem Soc J p864-73 D '41

HALOGEN compounds—*Continued*
Magnitude of the solvent effect in dipole-moment measurements; induced and mesomeric moments of the alkyl halides and the halogenobenzenes. A. Audsley and F. R. Goss. Chem Soc J p497-500 Ag '42
Nitrous acid as a nitrating and oxidising agent; reactions with the four 3-halogenodimethylanilines. H. H. Hodgson and D. E. Nicholson. Chem Soc J p766-70 N '41
Systematics in the vibrational spectra of the halogen derivatives of methane. T. Wu. bibliog J Chem Phys 10:116-24 F '42
See also
Chlorides
Grignard reagents
Halides
Trichloroethylene

Analysis

See also
Bromides—Analysis
Halides—Analysis

HALOGENATION
Halogenation of aliphatic hydrocarbons. G. Egloff and M. Alexander. bibliog Oil & Gas J 41:41-2+ Ag 20; 39-40+ Ag 27; 34-7 S 3; 42+ S 10 '42
Halogenation of *m*-diphenylbenzene; the monoiodo derivative. W. A. Cook and K. H. Cook. Am Chem Soc J 64:2485-6 O '42
Halogenation of phenolic ethers and anilides; some Arrhenius activation energies. B. Jones. Chem Soc J p418-20 Jl '42
See also
Bromination
Chlorination
Fluorination
Iodination

HALOGENS
Halogen addition to ethylene derivatives. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:697-716 Mr '42
Mechanism of processes initiated by excited atoms; the quenching of excited sodium. K. J. Laidler. bibliog J Chem Phys 10: 34-42 Ja '42
Radio halogen exchanges in the phosphorus halides. W. Koskoski and R. D. Fowler. bibliog Am Chem Soc J 64:850-2 Ap '42
Sulfur in organic compounds containing nitrogen and halogen; acidimetric microdetermination. E. L. Brewster and W. Rieman, 3d. bibliog diag Ind & Eng Chem Anal ed 14:820-1 O 15 '42
See also
Bromine
Chlorine
Fluorine
Halogen compounds
Iodine

Analysis

Determination of fluorine and other halogens in organic compounds. P. J. Elving and W. B. Ligett. bibliog(50 references) il diags Ind & Eng Chem Anal ed 14:449-53 Je 15 '42; Excerpt (Determination by means of a simply constructed furnace). Chem Age (Lond) 67:265-6 S 19 '42

HAMILTON, Frederick P. 1868-1942
Sketch. por Nat Underw 46:9 Ag 13 '42

HAMILTON, Ontario

Industries

Process industries of the Hamilton area. W. H. Pitcher and G. L. White. il Can Chem & Process Ind 26:258-64 My '42

HAMILTON foundry and machine company
Annual open house commemorates 50th anniversary. il Foundry 70:86+ Ja '42

HAMM, John E.
Portrait. Business Week p27 My 9 '42

HAMMERMILL paper company
Agents' annual meeting, Erie, Pa. Aug. 27-28. Paper Tr J 115:23 S 3 '42

HAMMERS
Hammer accidents. il Nat Safety N 46:104, 106 O '42
Rugged and resilient; tough, oil-proof plastic materials form sturdy, efficient tools used in aircraft manufacture, and protect fragile parts. E. F. Lougee. il Mod Plastics 19:44+ Ag '42

HAMMERS, Drop
Aircraft drop forgings. A. H. Milnes. il Steel 110:64-6+ Mr 9; 68-9 Mr 16 '42; Correction. 110:79 Mr 23 '42
Building hammers at Chambersburg. A. F. Macconochie. il diag Steel 111:112-14, 116+ S 14 '42
Drop hammer forming of aircraft parts. C. H. Miller and R. B. Stubbs. il Iron Age 150:59-62 Ag 27 '42
Drop-hammer methods in aircraft production. C. J. Frey and S. S. Kogut. il diags Aero Digest 40:199-200, 202, 204+ My; 147, 149-50, 152 Je; 41:140, 145-6+ Jl '42
Drop hammer technique and innovations. C. J. Frey and S. S. Kogut. il diags Aviation 41:130-3+ O '42
Eliminating drop hammer vibrations. G. Laidler. diag Iron Age 149:54-5 Ap 2 '42

Repair

Cracked drop hammer frame repaired by welding. A. P. Demmer. il Welding J 21:558 Ag '42

HAMMERS, Electric. See Electric hammers

HAMMOND, Indiana

Sewerage

Sewage treatment works. C. A. Mason. il Pub Works 73:11-13 Ap '42

HAMPTON ROADS area
What's a war boom like? Hampton Roads area where navy comes up like thunder. il Business Week p22+ Je 6 '42

HAND
Nerve and tendon injuries of the hand. M. L. Mason. bibliog il Ind Med 11:61-6 F '42

Diseases

Four commonest hand dermatoses. T. Cornbleet. Ind Med 11:55-8 F '42
Hand, its disabilities and diseases. C. W. Cutler, jr. 572p $7.50 Saunders '42

Protection

Hand protective creams. C. A. Tyler. il Soap & San Chem 18:19-21+ S '42
Hands and arms; practical equipment for their protection. il Nat Safety N 45:21+ Mr '42

HAND soap. See Soap

HANDBAGS
Plastics competition award to de Calsta co.; Merlang co.; Gold seal importers, inc. il Mod Plastics 19:160-1 N '41

HANDICAPPED
Employability of the physically handicapped; abstract. H. H. Kessler. Nat Safety N 45: 81-3 Ja '42; Same. Concrete (mill sec) 50: 155 Ap '42
Employment of handicapped persons; abstract. J. B. Knox. Management R 31:82-3 Mr '42
Handicapped men aid in war production. P. V. McNutt. Nat Safety N 46:103 Jl '42
Handicapped workers under Public contracts act. Monthly Labor R 55:843-4 O '42
One answer to the labor shortage question; physically handicapped. Am Business 12: 25+ Ja '42
Restoring and training the physically handicapped. M. M. Walter. Concrete (mill sec) 50:156-7 Ap '42
Substandard worker; physical examination and placement. P. J. Ochsner. Ind Med 11: 283-5 Je '42
Use of the physically handicapped in war industry. Monthly Labor R 54:1327-8 Je '42
See also
Blind
Deaf
Disabled

HANDICRAFT
Beginnings; teaching art to children. M. McLeish. 84p $3.50 Studio publications, 381 4th av, New York '42
Book of little crafts. M. Powers. 115p $2.50 Manual arts press '42
Crafts in wartime. M. Ickis. 22p pa 35c Nat. recreation assn, 315 4th av, New York '42

HANDICRAFT—*Continued*
Elementary plastics processes. A. Kosloff. 26p bibliog(p26) 85c Albert Kosloff, 240 W. North av, Chicago '42
Giant home workshop manual. 496p $1.95 Popular science pub. co., New York '41
Handicraft imports from the other American republics. S. L. Bull. il For Comm W 5:10-11 N 15 '41
Handicraft; simplified procedure and projects. L. Griswold. 8th ed 512p $3 Lester Griswold, Out West bldg, Colorado Springs, Colo. '42
Home handicraft for girls. R. M. Hall and A. N. Hall. 359p $2.50 Lippincott '41
Indiancraft. W. B. Hunt. 124p $2.75 Bruce pub. '42
Latin American handicrafts. il For Comm W 6:8-9 Ja 24 '42
Navajo rugs hold unique place in American handicraft industry. F. Kutnewsky. il Rayon 23:31-2 Ja '42
Shopcrafter's handbook. N. L. Burbank and E. M. Mitchell, comps. 141p $2 Simmons-Boardman '42
Tinkering with tools. H. H. Saylor. 260p $1 Grosset & Dunlap, New York '42
See also
Weaving (handicraft)

HANDICRAFT shops
America house, New York city. il Arch Rec 91:48 Mr '42
Shop and tea room, Lake Mahopac, New York, in which local handicraft products are sold. il diag plans Arch Forum 76:117-19 F '42

HANDLES
Inlaying injection-molded parts. il Mod Plastics 19:62 Je '42

HANDLING of materials
How to stack and load corrugated shipping boxes. diags Steel 111:81+ O 19 '42
Report on material handling. J. W. Wade. il Ry Age 113:225-6 Ag 8 '42
See also
Coal handling
Conveying machinery
Electric trucks, Industrial
Freight handling
Hoisting machinery
Loading and unloading
Mechanical handling
Motor trucks, Industrial
Ore handling
Sand handling
Steel handling
Stores systems
Trucks

HANDWORK
See also
Handicraft

HANGAR keeper's liability. See Insurance, Hangar keeper's liability

HANGARS
Aeroplane hangars with collapsible doors. il diag Engineering 154:247-8, 250 S 25 '42
Blimp hangars set new timber arch record. diags Eng N 129:576-7 O 22 '42
Collapsible doors for airplane hangars; laminated wood framing; Garner Field, Texas. il diag Eng N 128:772-4 My 7 '42
Combined hangar and office building, Denver airport. il diag Eng N 128:402-3 Mr 12 '42
Concrete arched aeroplane hangars. Engineer 173:247 Mr 20 '42
Effect of wind on hangar footings by moment distribution. S. U. Benscoter. diags Civil Eng 12:457-8 Ag '42
Large timber hangar built in thirty days. il Roads & Bridges 80:104 O '42
Navy builds concrete hangars at San Diego; thin-shell barrel-type arch structures. il Eng N 127:786-8 D 4 '41
Seaplane hangar will serve transatlantic planes. il Eng N 128:303 F 19 '42
Tubing saves steel in long trusses. H. S. Card. diags Eng N 129:37-9 Jl 2 '42
Wide-span hangars for the U.S. navy; reinforced concrete structures of unique design. A. Tedesko. il diags Civil Eng 11:697-700 D '41
Wood frame hangar for Northwest airlines. il Aviation 41:163 Ap '42

HANKINS, Frederick William, 1876-
Sketch. pors Ry Mech Eng 116:49-55 F '42

HANLEY, William Andrew, 1886-
Portrait. Mech Eng 64:52 Ja '42

HANOVER fire insurance company
Ninety years old; executive personnel. C. Axman. pors East Underw 43:19-20 Ap 24 '42

HANSEN, Alvin Harvey, 1887-
Portrait. Fortune 26:130 N '42

HANSGIRG process. See Magnesium metallurgy

HANTKENINA
Hantkenina in the eocene of East Borneo. H. E. Thalmann. (Geological sciences, v 3, no 1) 24p bibliog(p22-4) pa 50c Stanford univ. press '42

HANUS solution
Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

HARBORS
See also
Docks
Dredging
Loading and unloading—Ships
Longshoremen
Piers
Ports
Terminals
also subdivision Harbor under names of cities, e.g. Boston—Harbor; Escanaba, Michigan—Harbor; New York (city)—Harbor; Portland, Maine—Harbor

HARD facing
Broken, multi-edge tools reclaimed by welding; Suttonizing process. T. Sutton. il Iron Age 150:68-70 O 22 '42
Building-up and hardfacing in mill maintenance. S. D. Baumer. il diags Steel 111:170, 172 S 14; 70, 72 S 21 '42
Building up bearing surfaces that are worn; practices of three companies. il Factory Management 100:145-6 Ag '42
Building up of worn parts. W. J. Cumming. S A E J 50:140 Ap '42
Hard-facing cams. il Iron Age 149:35 Ap 23 '42
Hard facing cement kiln thrust roll spindles. il Rock Prod 45:34 Je '42
Hard-facing magic, it overcomes abrasion. Eng & Min J 143:66-7 Je '42
Hard facing to reduce wear; value of the electric arc process. Chem Age (Lond) 47:13 Jl 4 '42
Reclaiming and renewal of worn automotive parts; abstract. E. W. Templin. diags Automotive & Aviation Ind 87:43+ S 1 '42
Repair of tractor parts by welding; with cost data. J. A. Cunningham. il diags Eng N 129:312-14 Ag 27 '42
Use of hardfacing material on rotary tool joints. T. P. Sanders. il Oil & Gas J 40:36, 39+ F 5 '42
War maintenance; welding and facing. il Coal Age 47:113-15 O '42

HARD woods
Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41
Eight years growth in hardwood stands on the Barlett experimental forest. V. S. Jensen. Pulp & Pa of Can 42:797-8 D '41

HARDENING
Conference on the hardening of metals. F. Seitz. J Ap Phys 13:74-5 F '42
Hardening of tellurium-lead alloys. Engineer 172:sup[Metallurgist] 47-8 D 26 '41
Hardness of metals as effected by alloying agents. S. Siegel. bibliog J Ap Phys 13:84-9 F '42
Precipitation hardening. W. L. Fink. bibliog il diags J Ap Phys 13:75-83 F '42
Precipitation-hardening of metals. P. D. Merica. Franklin Inst J 234:137-46 Ag '42
See also
Case hardening
Metals—Aging
Steel, Hardening of

HARDISON, Frank H. 1850-1942
Sketch. East Underw 43:7+ Ap 3 '42

HARDNESS
Cartridge brass hardness conversion table. Iron Age 149:55 My 21 '42
Hardness and hardness measurements. S. R. Williams. 558p bibliog(p463-546) $7.50 Am. soc. for metals, Cleveland '42
Hardness of metals as affected by alloying agents. S. Siegel. bibliog J Ap Phys 13:84-9 F '42

See also
Case hardening
Steel, Hardening of

Testing

Alternative steels for constructional purposes. Engineer 173:435-6 My 22 '42
Compressed air speeds bomber part testing job. R. Gross. il Heating-Piping 14:495 Ag '42
Dynamic hardness testing of metals and alloys at elevated temperatures; abstract. E. Fetz. Metals & Alloys 15:342+ F '42
Effect of moderate cold-rolling on the hardiness of the surface layer of 0.34-percent-carbon steel plates. H. K. Herschman. bibliog pl J Research Nat Bur Stand 29: 57-67 Jl '42
File hardness testing. J. H. Hruska. il Iron Age 150:35-9 S 24 '42
Hardenability of steel. A. E. Focke. bibliog diags Iron Age 150:43-51 Ag 27; 56-9 S 3 '42
Hardenability testing of low carbon steels. R. C. Frerichs and E. S. Rowland. bibliog Am Soc for Metals Trans 30:225-45; Discussion. 245-8 Mr '42
Hardening characteristics of an iron-cobalt-tungsten alloy. W. P. Sykes. bibliog il Am Soc for Metals Trans 30:147-64; Discussion. 164-5 Mr '42
Hardness test as a means of estimating the tensile strength of metals. W. J. Taylor. Roy Aeronautical Soc J 46:198-209 Ag '42
How to use hardness tests. T. H. Gray. Am Mach 86:1075-8 O 1 '42
Investigation of punching quality of laminated phenolic sheet. diags Am Soc T M Proc 41: 403-12 '41
Jominy end-quench hardenability tests on carbon-manganese steels. G. A. Timmons. il Welding J 21:sup467-77 O '42
Mar resistance of plastics. L. Boor. bibliog il Mod Plastics 20:79-83 S '42
Method of recording changes in hardness of rubber. diag Rubber Age 51:482 S '42
Method of sclero-grating employed for the study of grain boundaries and of nitrided cases; grain structures revealed by cutting. B. O. W. L. Ljunggren. diags Iron & Steel Inst J 141:341-400, pl 22-39 bibliog (p399-400) no 1 '40; Abstract. Metal Prog 42:698+ O '42; Discussion. Iron & Steel Inst J 141:401-4 no 1 '40
Parts tester ups output. il Aviation 41:141 S '42
Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity, and tensile properties. R. H. Harrington and T. C. Jester. bibliog il Am Soc for Metals Trans 30:124-42; Discussion. 142-6 Mr '42
Proposed method of test for indentation of rubber by means of the durometer. diag Rubber Age 52:37-8 O '42
Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42
SAE standard procedure recommended for testing hardenability of steel. bibliog diags S A E J 50:sup15-20+ Ja '42
Strain hardening of gray cast iron. J. S. Peck. il Am Soc T M Proc 41:811-14; Discussion. 815 '41
Surface hardness of metals; measured by reflectivity changes caused by impact of sand. B. Chalmers. il diag Engineering 153:117-20 F 6 '42; Same cond. Engineer 173:232-4 Mr 13 '42; Excerpts. Machine Design 14:82-3 F '42; Abstract. Metal Prog 41:220+ F '42; Discussion. Engineering 153: 256 Mr 27 '42; Engineer 173:243-4 Mr 20 '42
Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. bibliog il diags Machine Design 14:63-7+ Ag '42
Weld quench gradient tests. W. H. Bruckner. il diag Welding J 21:sup496-500 O '42
Weldability; is it practical to measure it by hardness tests? H. Lawrence. Steel 110: 72, 75+ Mr 9 '42
Weldability of carbon-manganese steels; weld-bead hardness and weld-bead bend tests. O. E. Harder and C. B. Voldrich. il diags Welding J 21:sup450-66 O '42

HARDWARE
Price schedule; builders' hardware. Iron Age 149:146 Ja 1 '42

Specification standards for government work; builders' hardware. H. R. Sleeper. Arch Rec 91:64 Mr '42

See also

Bolts and nuts	Screws
Nails	Tools
Saws	

HARDWARE industry and trade
Hardware dimout; exhaustion of stocks of irreplaceable items. Business Week p42+ O 3 '42
Hardware industry in peace and war; a half century of achievement. golden jubilee ed 237p pa $1 Maclean pub. co, 481 University av, Toronto '42
Hardware survey. Business Week p19-20+ Ja 3 '42
Master Rule short line policy is hit with trade; cuts waste. Sales Management 50: 29 Ap 1 '42
Memory joggers in a hardware store. A. H. Van Voris. il Mod Packaging 16:76, 78+ S '42
News by commodities. Published in Foreign commerce weekly
Ten-step plan to stop waste; Hibbard, Spencer, Bartlett and company conserves supplies of paper, cartons, boxes. H. E. Fleming. il Am Business 12:22-4 F '42
Tire ban reduces jobber calls and deliveries, but orders are larger; hardware trade booms; product scarcity offset by long lines. P. Salisbury. Sales Management 50: 40-1 Mr 1 '42

Advertising

Jobbers' salesmen remain important when manufacturer is without goods to sell; basic theme in trade press holds their good-will. Aluminum goods mfg. co. R. L. Pritchard. il Ptr Ink 200:40-1 Jl 3 '42
Making the marketing plan solve your procurement job; simplification of lines and advertising averted priority difficulty and added dealers for Master rule mfg. co. F. Keeler. il Ind Marketing 27:22-3+ My '42

HARMONIC analysis
36 and 72 ordinate schedules for general harmonic analysis. R. P. G. Denman. Electronics 15:44-7 S '42
Tidal hydraulics. G. B. Pillsbury. 283p U.S. Engineer dept, Washington; $1 Supt. of doc. '40

HARMONICS (electric waves)
Field harmonics in induction motors. M. M. Liwschitz. bibliog(55 titles) Elec Eng 61: Trans 797-803 N '42
Harmonic distortion in audio-frequency transformers. N. Partridge. diags Wireless Eng 19:394-400, 451-6, 503-7 S-N '42
Harmonics and power factor. G. W. Stubbings. Elec R (Lond) 130:726-7 Je 5 '42
Power-system harmonics. T. W. Schroeder. diags Gen Elec R 45:399-402 Jl '42

HARRAR, Norman Jackson, 1902-1941
Sketch. F. E. E. Germann. Science 94:507-8 N 28 '41

HARRIMAN memorial medals for safety
Passenger safety records win Harriman awards. Nat Safety N 46:56 Ag '42
Safety medalists hear crossing caution plea; awards of E. H. Harriman memorial medals. Ry Age 113:12-13 Jl 4 '42

HARRISON, George Russell, 1898-
Sketch. por(p 183) Tech R 44:182 F '42

HARRISON abrasive corporation
Chilled steel shot and grit. A. S. Park. il Comp Air M 47:6684-8 Mr '42

HART, Raymond
Raymond Hart is appointed sole PRP administrator. Oil Paint & Drug Rep 142:3 Ag 24 '42

HARTFORD, Connecticut
Putting a river underground; pressure conduit to carry the Park river underground through Hartford. il diag map Eng N 128:180-3 Ja 29 '42

Bridges

Falsework suspected in Hartford bridge collapse. il Eng N 127:837-8 D 11 '41
Gain high speed in concreting operations on piers of new Hartford bridge. I. Shapiro. il Concrete 49:2-3 D '41
Hartford bridge, with longest girder spans, opened. il Eng N 129:338 S 10 '42

HARTFORD electric light company
Utility earning power termed a war essential; earnings. Elec W News ed 117:572 F 14 '42

HARTFORD gas company
Loses appeal on subsidiary issue. Comm & Fin Chr 156:342 Jl 27 '42
Still under U.G.I.'s influence Securities commission rules. Comm & Fin Chr 155:362 Ja 24 '42

HARTFORD steam boiler inspection and insurance company
Changes in company officers. pors Locomotive 44:52-6 Ap '42

HARVARD business review (periodical)
Twenty years. G. E. Bates. Harvard Business R 21 no 1:1-4 [S] '42

HARVARD university
Fifth general hospital (Harvard university unit), U.S. army. E. C. Cutler. Science 95:163-4 F 13 '42
Financial problems of educational institutions. A. C. Smith. Bankers M 143:510-11 D '41
Harvard reports on investments. Trusts & Estates 73:549 N '41
Leaders of organized labor studying economics at Harvard; trade union fellowship plan. Steel 111:60 O 26 '42
Next Harvard. A. MacLeish. 50p $1 Harvard univ. press '41
Report of the president. Science 95:228-30 F 27 '42
Wartime service. Science 95:496-7 My 15 '42

Library

Harvard air conditions rare book library. Heat & Ven 39:24 Ap '42

HARVESTING machinery
Harvesting machine for drug crops. il Oil Paint & Drug Rep 141:54 Mr 16 '42
Pyrethrum harvester developed. il Oil Paint & Drug Rep 141:42 Mr 23 '42

HASHISH. See Marihuana

HASKELITE manufacturing corporation
Good war and post-war prospects. Comm & Fin Chr 155:2380 Je 25 '42

HASLETT, Caroline
Portrait. Elec W News ed 117:front cover Ja 3 '42

HASTELLOY
Working of high-nickel alloys. diags Am Mach 86:885-904 Ag 20 '42

HAT boxes
Saving hat boxes; abstract. H. Lustig. Mod Packaging 15:70 My '42

HAT factories

Employees

Elimination of mercury hazard in the felt hat industry. G. D. Beal, R. R. McGregor and A. W. Harvey. bibliog il News Ed 19:1239-44 N 25 '41

HATHAWAY, Fred C.
Retires after 40 years' service with Mutual Life. East Underw 42:11 N 28 '41

HATS
Bid crackdown; price collusion on defense bids; indictments charging hat firms, unions with conspiracy. Business Week p26+ D 6 '41
Cotton straw hat. Business Week p54 Ag 15 '42
History of the straw hat industry. J. G. Dony. 219p bibliog(p200-8) 10s 6d Gibbs, Bamforth & co, Luton, Eng. '42
Plastics competition award to Louise Sanders; plastic trim of Tenite II. il Mod Plastics 19:156-7 N '41

See also
Helmets

Manufacture

Elimination of mercury hazard in the felt hat industry. G. D. Beal, R. R. McGregor and A. W. Harvey. bibliog il News Ed 19:1239-44 N 25 '41

HATS, Safety
Head protection. il Nat Safety N 45:24 Mr '42
Safety hats protect refinery employees. Nat Safety N 44:81 D '41

HATTERS
See also
Hat factories—Employees

HAULAGE
All crushing in quarry; haulage system; Glens Falls portland cement co. il Rock Prod 45:40-1 Je '42
Determining stress in haulage and other ropes; patent specification. diags Mech Handling 29:31-2 F '42
Hauling logs by small tractor. W. H. McKinley. Pulp & Pa of Can 43:384 Ap '42
Moving mountain to mill; semi-trailer and trailer combination haul rock from quarry to railway cars. W. H. Cleary. il Rock Prod 45:46-7+ F '42
Pre-hauling eight-foot wood. F. L. Flatt. il diags Pulp & Pa of Can 42:788-93 D '41
Speed up haulage; use of Diesel-electric locomotives, and truck and trailer body combinations; rock products companies. il Rock Prod 45:58-9 Ja '42

See also
Cableways
Conveying machinery
Delivery of goods
Electric trucks, Industrial
Loading and unloading
Locomotives
Mine haulage
Motor trucks
Motor trucks in freight service
Tractors
Trucks

HAUSMANNITE. See Manganese ores

HAUSSMANN, Georges-Eugène, baron, 1809-1891
What happened to Haussmann. R. Moses. por Arch Forum 77:57-66 Jl '42

HAVANA, Cuba

Rapid transit

War's effect on transit in Havana. il Transit J 86:202 Je '42

HAWAIIAN ISLANDS
American frontier in Hawaii; the pioneers, 1789-1843. H. W. Bradley. 488p $4.50 Stanford univ. press '42
Minority groups in Hawaii. W. C. Smith. bibliog Ann Am Acad 223:36-44 S '42
Our Hawaii. E. Fergusson. 304p $3.50 Knopf '42
Over and above our Pacific. C. M. Parr. 274p $2 Whole world & co, 104 E. 56th st, New York '42
Unrecognized arid Hawaiian soil erosion. F. E. Egler. Science 94:513-14 N 28 '41

See also
Geology—Hawaiian Islands
Labor laws and legislation—Hawaiian Islands
World war, 1939—Hawaiian Islands

HAWLEY, George Sherman
Honor President Hawley as outstanding leader. por Am Gas Assn Mo 23:425-6 D '41

HAY

Alfalfa dehydrating helps farmers. M. F. Peters. il Gas Age 90:22-3 S 10 '42

Farm hands win; mechanical loaders boosting pay of piecework labor in hay harvesting. Business Week p62 S 5 '42

HAY fever

Electrophoretic and ultracentrifugal analysis of hay-fever-producing component of ragweed pollen extract. H. A. Abramson, D. H. Moore and H. H. Gettner. bibliog il J Phys Chem 46:192-203 Ja '42

Hay-fever; histamine released by blood may be partially responsible. Science 94:sup13 N 28 '41

Pollen concentration of the atmosphere. A. O. Dahl and R. V. Ellis. bibliog diag Pub Health Rep 57:369-77 Mr 13 '42

Profits on sneezes; air filters for relief of hay fever and asthma sufferers. B. G. Heebink. Sheet Metal Worker 32:62+ N '41

HAYES manufacturing corporation

Earnings, years ended Sept. 30, 1940-1941. Comm & Fin Chr 155:190 Ja 13 '42

HAYS, Robert F. jr. 1914-

Alfred Noble prize to electrical engineer. Civil Eng 12:115 F '42

HAZE

Polarization of atmospheric haze. H. Neuberger. Science 94:485-6 N 21 '41

HAZEL nuts. See Filberts

HEAD

Wounds and injuries

Head injuries; an analysis with reference to accident prevention. H. Lieber. Ind Med 11:9-10 Ja '42

HEADING machines

Bolts by hot heading. H. Chase. il diag Am Mach 86:952-5 S 3 '42

Cold header or screw machine? H. Chase. il diags Iron Age 148:62-7 D 4 '41

Taylor and Challen eccentric-operated heading presses. il Engineering 153:30 Ja 9 '42

Waterbury Farrel Hi-pro heading machine. il Automobile Eng 32:245-6 Je '42

HEADLIGHTS

Headlight dim-out test. H. I. Sullivan. Bus Transportation 21:332 Jl '42

HEADLIGHTS, Automobile. See Automobiles—Lighting

HEADLINES

Headlines, headaches, and grammar. E. N. Teall. Inland Ptr 108:20 D '41

See also

Advertisements—Headlines

HEALD, Henry T. 1904-

President of the Society for the promotion of engineering education for 1942-43. por J Eng Educ 33:5-8 S '42

HEALTH

See also

Hygiene

Public health

Sickness

HEALTH and accident underwriters conference

Annual meeting, 41st, Kansas City, Mo. May 25-28. East Underw 43:36+ My 29 '42; Ins Field (Fire ed) 71:16+ My 28 '42; Ins Field (Life ed) 71:5-6+ My 29 '42; Nat Underw (H. & A. conference no) 46:3+ My 29 '42; Spectator (Life ed) 148:6-8 Je 4 '42; Spectator (Property ed) 7:16-17+ My 28 '42; Weekly Underw 146:1201+, 1226 My 30 '42

Leaders in H. & A. conference. East Underw 43:30 Jl 10 '42

HEALTH centers

Building types; public health centers; design, data and plans; with time-saver standards. bibliog Arch Rec 92:63-78 Jl '42

Health and recreational center, Houston, Texas; views, plans, and construction outline. Arch Forum 76:134-6 F '42

Two public health centers; Champaign-Urbana public health district building, and Klamath County infirmary, Oregon. il plans Arch Rec 91:62 My '42

HEALTH departments. See Public health departments

HEALTH education

Community organization for health education; a committee report. 120p pa 9c Am. public health assn., New York '41

Health education of the public; a practical manual of technic. W. W. Bauer and T. G. Hull. 2d ed rev 315p $2.75 Saunders '42

Training in health; company physician prepares articles for employee publication; Consolidated Edison co. of N.Y. N. E. Eckelberry. il Nat Safety N 44:26-7 D '41

HEALTH insurance. See Insurance, Health

HEALTH officers. See Public health officers

HEALTH surveys. See Public health surveys

HEARING

Auditory sensitivity under conditions of anoxia; a study of speech intelligibility. C. P. Seitz and G. M. Smith. bibliog J Aeronautical Sci 9:478-80 O '42

Cancellation of the electrical cochlear response with air- and bone-conducted sound. K. Lowy. bibliog il diags Acoustical Soc Am J 14:156-8 O '42

Cochlear potentials elicited from bats by supersonic sounds. R. Galambos. bibliog diags Acoustical Soc Am J 14:41-9 Jl '42

Damping and selectivity of the inner ear. R. S. Hunt. bibliog Acoustical Soc Am J 14:50-7 Jl '42

Dynamic auditory localization; the binaural intensity disparity limen. A. Ford. bibliog diag Acoustical Soc Am J 13:367-72 Ap '42

Experimental study of subjective tones produced within the human ear. C. R. Moe. bibliog il Acoustical Soc Am J 14:159-66 O '42

Experiments on the pellet-type of artificial drum. K. Lowy. bibliog il Acoustical Soc Am J 13:383-8 Ap '42

Hearing, the determining factor for high-fidelity transmission. H. Fletcher. bibliog diags Inst Radio Eng Proc 30:266-77 Je '42

See also

Deaf

Deafness

Ear

Noise

Sound

Testing

Ears for the job; where safety depends upon good hearing, periodic tests are important. H. C. Walker. il Nat Safety N 46:28+ Ag '42

Industrial noises and industrial deafness. W. A. Rosenblith. bibliog Acoustical Soc Am J 13:220-5 Ja '42

Method for measuring the percentage of capacity for hearing speech. E. P. Fowler. Acoustical Soc Am J 13:373-82 Ap '42

HEARING aids. See Deaf, Instruments for

HEART

Effect of l-ascorbic acid on the isolated frog heart. R. P. Linstead and O. Krayer. Science 95:332-3 Mr 27 '42

Electrocardiogram and X-ray configuration of the heart. A. M. Master. 2d ed 404p $7.50 Lea & Febiger, 600 S. Washington sq, Philadelphia '42

Youth whose heart ceased to beat for 20 minutes resuscitated. Science 95:sup10 F 20 '42

See also

Cardiograph

Cardiovascular system

Diseases

Cardiac clinics. F. A. Willius. 276p bibliog(p268-9) $4 C. V. Mosby co, St Louis '41

Clinical cardiology, with special reference to bedside diagnosis. W. Dressler. 692p $7.50 Harper '42

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

HEART—Diseases—*Continued*

Electrocardiogram and X-ray configuration of the heart. A. M. Master. 2d ed enl & rev 404p bibliog(p384-90) $7.50 Lea & Febiger, Philadelphia '42

Electrocardiography in practice. A. Graybiel and P. D. White. 319p $6 Saunders '41

Facilities in the United States for the special care of children with rheumatic heart disease. O. F. Hedley. bibliog Pub Health Rep 56:2321-41 D 5 '41

Heart disease in Philadelphia cardiac clinics, a composite picture of the etiological types in the clinics of 15 hospitals with special reference to rheumatic heart disease and syphilis of the aorta and heart. O. F. Hedley. (Pub. health bul. 268) 38p bibliog(p35-8) U.S. Public health service; pa 10c Supt. of doc. '41

Help your doctor to help you when you have heart disease. W. C. Alvarez and others. 47p Harper '42

Rehabilitation of many heart patients possible. W. S. Priest. Nat Underw (Life ed) 46:2+ Mr 20 '42

Short history of cardiology. J. B. Herrick. 258p $3.50 C. C. Thomas, 220 E. Monroe st, Springfield, Ill. '42

Synopsis of diseases of the heart and arteries. G. R. Herrmann. 2d ed 468p $5 C. V. Mosby co, St Louis '41

Your heart. J. M. Stein. 240p $2.75 Alliance book corp, New York '41

HEART mountain

Heart Mountain and South Fork thrusts, Park county, Wyoming. W. G. Pierce. bibliog pls diags maps Am Assn Pet Geologists Bul 25:2021-45 N '41

HEAT

Experimental heat, sound and light; an analytical college text. H. B. Lemon and M. Ference. 5th ed 361 numb l $3.50 Univ. of Chicago bookstore, Chicago '42

Heat in theory and practice essential to refrigeration and air conditioning. S. R. Cook. 228p $2 Nickerson & Collins co, Chicago '41

History of instruction in heat power in the United States. A. M. Greene, jr. J Eng Educ 33:112-25 O '42

See also

Boiling points
Calorimeters and calorimetry
Combustion
Electric heating
Evaporation
Expansion (heat)
Gas heating
Heating
Insulation (heat)
Melting points
Pyrometers and pyrometry
Specific heat
Steam
Temperature
Thermochemistry
Thermodynamics
Thermometers and thermometry
Waste heat

HEAT, Animal and human

Hygroscopic properties of clothing in relation to human heat loss. J. H. Nelbach and L. P. Herrington. Science 95:387-8 Ap 10 '42

Practical system of units for the description of the heat exchange of man with his environment; insulation of clothing. A. P. Gagge, A. C. Burton and H. C. Bazett. Science 94:428-30 N 7 '41

See also

Temperature, Animal and human

HEAT capacity. See Specific heat

HEAT conduction

Heating curves; theory and practical application. F. C. W. Olson and J. M. Jackson. bibliog Ind & Eng Chem 34:337-41 Mr '42

Paradox in the theory of heat conduction. G. Jaffé. Phys R 61:643-7 My 1 '42

Temperatures in solids during heating or cooling; tables for the numerical solution of the heating equation. F. C. W. Olson and O. T. Schultz. bibliog Ind & Eng Chem 34:874-7 Jl '42

HEAT conductivity

Apparatus for measuring thermal conductivity of refractories. C. L. Norton, jr. bibliog il diags Am Cer Soc J 25:451-9 N 1 '42; Abstract. Brick & Clay Rec 100:42+ My '42

Calculation of the surface area of microporous solids from measurements of heat conductivity. S. S. Kistler. bibliog diags J Phys Chem 46:19-31 Ja '42

Heat insulators; abstract. E. Griffiths, R. W. Powell and M. J. Hickman. Elec R (Lond) 130:402-3 Mr 27 '42

Steam economy and CO_2; thermal conductivity meters. D. D. Howat. il diags Chem Age (Lond) 47:221-3 S 5 '42

Thermal conductivity meters. Power Pl Eng 46:93-4 Mr '42

Thermal conductivity of dielectrics. I. Pomeranchuk. bibliog Phys R 60:820-1 D 1 '41

Thermal conductivity; researches in the National physical laboratory; abstract. E. Griffiths, R. W. Powell and M. J. Hickman. Chem Age (Lond) 46:171 Mr 28 '42

See also

Heat transmission

HEAT convection

Copper and aluminium. L. P. Dudley. bibliog Electrician 128:419-22 My 1 '42

Heat transfer by convection in annular spaces. C. C. Monrad and J. F. Pelton. bibliog diag Am Inst Chem Eng Trans 38:593-608 Je '42; Abstract. Chem & Met Eng 49:148 Je '42; Discussion. Am Inst Chem Eng Trans 38:609-11 Je '42

Heat transfer by natural and forced convection. A. P. Colburn. diags Purdue Univ Eng Exp Sta Research Ser 84:1-58 bibliog(p57-8) '42 (pa 25c)

Heat transfer from wires to air in parallel flow. A. C. Mueller. bibliog diags Am Inst Chem Eng Trans 38:613-27; Discussion. 627-9 Je '42

High-temperature forced-convection furnaces. F. P. Peters. il Metals & Alloys 16:639-43 O '42

HEAT cramps

Beat the heat; vitamin C staves off prostration. Sci Am 167:120 S '42

Hot weather health; use of salt for heat cramps. Nat Safety N 45:157-8+ Mr '42

How to avoid heat sickness. Steel 111:78 Ag 3 '42

Prevention of heat sickness. Min Cong J 28:25 Ag '42

Salt of the earth as a weapon to fight heat fatigue and sickness. Safety Eng 83:40, 42 Je '42; Same abr. Foundry 70:121 Je '42; Same cond. Mach 48:188 Je '42

Vitamin C prevents heat cramps and heat prostration; abstract. J. H. Foulger. Science 95:sup 12 Je 19 '42

HEAT engines

Definitions and formulae for students (heat engines). A. Rimmer. 4th ed 38p pa 20c Pitman '40

See also

Diesel engines
Gas and oil engines
Gas turbines
Steam engines
Steam turbines
Thermodynamics

HEAT exchangers

Application of heat exchangers for increasing evaporator capacity and improving compressor performance. K. M. Newcum. diags Refrig Eng 43:77-9 F '42

Close temperature regulation pays dividends; Diesel engine heat used to heat oil for Kobe pumping unit. il Diesel Power 20:579-81 Jl '42

Continuous closed-type heat-transfer mechanism by Girdler; Votator. il diags Oil & Gas J 41:96 My 21 '42

Converts horizontal return tubular boilers to water heaters. diags Power 86:185 Mr '42

Electrostatic effect and the heat transmission of a tube. M. R. Wahlert and H. O. Croft. bibliog il diags Iowa Univ Studies in Eng (Iowa City) Bul 25:1-34 '41 (pa 40c)

Girdler heat transfer equipment. il Textile World 92:95 Je '42

Heat exchangers add capacity and life. C. E. Baugh. Elec W 118:972+ S 19 '42

HEAT exchangers—*Continued*

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38:493-530 Je '42

Keylox heat exchangers. il diag Diesel Power 20:492 Je '42

Life of heat-exchanger steel is extended by relining. il Oil & Gas J 41:67 Ag 27 '42

Mean temperature difference in an array of identical exchangers. K. A. Gardner. bibliog il Ind & Eng Chem 34:1083-7 S '42

Mean temperature difference in multipass exchangers; correction factors with shell fluid unmixed. K. A. Gardner. bibliog il diags Ind & Eng Chem 33:1495-1500 D '41

Novel heat exchanger cools transformers. il plan Elec W 118:77 Jl 11 '42

Paraffin removal by heated oil; steam generator and heat exchanger used. T. P. Sanders. il diag Oil & Gas J 40:33-4 F 19 '42

Self-cleaning exchanger; Davis engineering corp. il Chem & Met Eng 49:111 O '42

Transo Envelope uses Diesels; jacket water from engines cooled by evaporative-type heat exchanger. R. S. Jones, jr. il Diesel Power 20:821-2 O '42

See also

Air preheaters

Manufacture

Welding of pressure vessels, tanks and heat exchangers. H. B. Schlosser. il Welding J 20:865-9 D '41

HEAT exhaustion

Beating the heat. il Nat Safety N 45:32+ Je '42

Heat beater. Dun's R 50:26+ S '42

See also

Heat cramps

HEAT insulation. See Insulation (heat)

HEAT measurement

See also

Calorimeters and calorimetry
Pyrometers and pyrometry
Temperature—Measurement
Thermocouples
Thermometers and thermometry

HEAT of coagulation. See Coagulation, Heat of

HEAT of combustion. See Combustion, Heat of

HEAT of dilution. See Dilution, Heat of

HEAT of dissociation. See Dissociation, Heat of

HEAT of formation. See Thermochemistry

HEAT of fusion. See Fusion, Heat of

HEAT of hydrogenation. See Hydrogenation, Heat of

HEAT of immersion. See Immersion, Heat of

HEAT of ionization. See Ionization, Heat of

HEAT of isomerization. See Isomerization, Heat of

HEAT of mixing. See Mixing, Heat of

HEAT of solution. See Solution, Heat of

HEAT of sublimation. See Sublimation, Heat of

HEAT of transition. See Transition, Heat of

HEAT of wetting. See Wetting, Heat of

HEAT pump

Heating by reversed refrigeration. R. D. Heitchue. il diags Elec Eng 61:556-60 N '42

HEAT radiation

Heat transfer by infrared radiation in the atmosphere. W. M. Elsasser. (Harvard meteorological studies 6) 107p bibliog(p102-7) pa $1.25 Harvard univ, Blue Hill meteorological observatory, Milton, Mass. '42

Infrared radiation. N. C. Beese. Science 95:614-17 Je 19 '42

Is this tomorrow's method of heating and cooling? radiant heating within reflective enclosures; heat absorbing device for cooling. C. F. Boester. il Heat & Ven 39:53-6 Ag '42

Model method of photographic and photometric determination of heat radiation between surfaces and through absorbing gases. M. Jakob and G. A. Hawkins. il diags J Ap Phys 13:246-54 Ap '42

Radiant heat and its application. J. D. Hall. diags Paper Tr J 114:35-9 Mr 5 '42

Radiant heat transmission from water vapor. H. C. Hottel and R. B. Egbert. bibliog diag Am Inst Chem Eng Trans 38:531-65; Discussion. 565-8 Je '42

Radiation as a factor in the feeling of warmth in convection, radiator and panel heated rooms. F. C. Houghten, C. Gutberlet and E. C. Hach. il plans Heating-Piping 13:778-85 D '41; Discussion. 14:200-1 Mr '42

See also

Electric lamps—Heat radiation
Heat transmission
Heating—Panel system
Radiators
Solar radiation

HEAT resisting alloys. See Alloys, Heat resisting

HEAT resisting glass. See Glass, Heat resisting

HEAT resisting materials

Carbozite high temperature resistant coating. Blast F & Steel Pl 30:1160 O '42

Heat transfer and thermal resistance. N. J. Hassid. Soc Chem Ind J 61:63-5 Ap '42

See also

Glass, Heat resisting
Insulation (heat)
Refractory materials
Steel, Heat resisting

HEAT stroke

Beating the heat. il Nat Safety N 45:32+ Je '42

HEAT transmission

Air in contact with water; analyzing air conditioning and heat exchange processes with the psychrometric chart. W. Goodman. Heating-Piping 14:169-72, 237-40, 299-301 Mr-My '42

Blast furnace air heating; adaptation of tubular heaters. G. Auer. il diag Iron Age 149:44-8 Ap 16; 43-8 Ap 23; 50-5, 109 bibliog(53 titles, p54-5, 109) Ap 30 '42

Cooling tower psychrometry. E. Simons. bibliog diags Chem & Met Eng 49:83-8 Je '42

Diffusion of heat through a rectangular bar and the cooling and insulating effect of fins; the steady state. M. Avrami and J. B. Little. diag J Ap Phys 13:255-64 Ap '42

Electrostatic effect and the heat transmission of a tube. M. R. Wahlert and H. O. Croft. bibliog il diags Iowa Univ Studies in Eng (Iowa City) Bul 25:1-34 '41 (pa 40c)

Elements of heat transfer and insulation. M. Jakob and G. A. Hawkins. 169p $2.50 Wiley '42

Factors influencing the operation of rotary dryers; rotary dryer as a heat exchanger. C. O. Miller, B. A. Smith and W. H. Schuette. bibliog il diags Am Inst Chem Eng Trans 38:841-62; Discussion. 863-4 Ag '42

Fundamental aspects of heat transmission in glass melting furnaces; abstract. Smith, Roberts and Townsend. Glass Ind 23:430 N '42

Heat balance equations for multiple-effect evaporators. M. G. Larian. Chem & Met Eng 49:90-1 O '42

Heat flow in arc welding. E. M. Mahla and others. il diag Welding J 20:sup459-68 bibliog(40 titles, sup468); 21:sup52-3 O '41, Ja '42

Heat insulation, its relation to mill efficiency. R. C. Parlett. bibliog Paper Tr J 114:27-38 Je 4 '42

Heat loss through basement walls and floors. F. C. Houghten and others. il diags Heating-Piping 14:69-74 Ja '42; Discussion. 14:271-2 Ap '42

Heat transfer and thermal resistance. N. J. Hassid. Soc Chem Ind J 61:63-5 Ap '42

Heat transfer coefficients for liquid flow, titled semiturbulent flow; abstract. R. N. Norris and M. W. Sims. Chem & Eng N 20:664 My 25 '42

Heat transfer of evaporating Freon. C. M. Ashley. diags Refrig Eng 43:89-93; Discussion. 93-5 F '42

HEAT transmission—*Continued*

Heat transfer to clouds of falling particles. H. F. Johnstone, R. L. Pigford and J. H. Chapin. diags Ill U Eng Exp Sta Bul 330: 1-55 '41 (pa 65c)

Heat transmission. W. H. McAdams. 2d ed rev & enl 459p bibliog(p419-48) $4.50 McGraw-Hill '42

Infrared radiant heating. F. M. Tiller and H. J. Garber. bibliog il Ind & Eng Chem 34:773-81 Jl '42

Insulation for low temperature test rooms; using the Schmidt diagram for determining heat flow. L. C. Leslie. Refrig Eng 44:299-301 N '42

Introduction to heat transfer. A. I. Brown and S. M. Marco. 232p $2.50 McGraw-Hill '42

Low transmission of heat and cold in walls of concrete masonry. Concrete 50:14-15+ N '42

Manufacture of silica aerogel; description of process and heat transfer problems. J. F. White. bibliog diag Am Inst Chem Eng Trans 38:435-44 Je '42; Same. Chem Ind 51: 66-9 Jl '42; Discussion. Am Inst Chem Eng Trans 38:445-6 Je '42

Radiant heat transmission; abstract. J. H. Wiegand and E. M. Baker. Chem & Met Eng 49:151-2 Je '42

Review of recent progress in heat transfer; discussion. Engineering 153:354-5 My 1 '42

Simultaneous heat and vapor transfer characteristics of an insulating material. F. G. Hechler, E. R. McLaughlin and E. R. Queer. bibliog diags Heating-Piping 14: 574-8; Discussion. 578-9 S '42

Theory of quenching. J. H. Awbery. diag Iron & Steel Inst J 114:119-26 no 2 '41

Thermal relations between ingot and mould. T. F. Russell. bibliog diags Iron & Steel Inst J 143:163-91; Discussion. 192-4 no 1; 144:289 no 2 '41

See also

Glass—Heat transmission
Heat conduction
Heat conductivity
Heat convection
Heat radiation
Heating—Tables, calculations, etc.
Insulation (heat)

Bibliography

Bibliography of heat transfer. F. C. Vilbrandt and others. 190, 11 numb l Virginia polytechnic inst, Blacksburg, Va. '41

Electric analogy

Application of an electric model to the study of two-dimensional heat flow. M. Avrami and V. Paschkis. diags Am Inst Chem Eng Trans 38:631-47; Discussion. 647-52 Je '42; Correction. 38:723 Ag '42

Heat flow problems solved by electrical circuits. V. Paschkis. bibliog il Heating-Piping 13:756-7 D '41

Heat transfer problems; new method for solving. H. Seymour. Electrician 128:512 My 22 '42

New heat-transfer research tool. Mech Eng 64:95-6 F '42

Periodic heat flow in building walls determined by electrical analogy method. V. Paschkis. diags Heating-Piping 14:133-8 F '42; Discussion. 14:201-3 Mr '42

Tables, calculations, etc.

Attic temperatures, ventilation and heat losses. P. D. Close. diags Heating-Piping 14: 694-8 N '42

Free-convection cooling of mild steel bars and rods; graphical time-temperature relations. J. Griswold and O. S. Jenkins. Am Soc for Metals Trans 29:1002-12 D '41

Heat flow through sunlit walls of one material; reference data. Heat & Ven 39:58a Jl '42

Heat flow through sunlit wood frame walls; reference data. Heat & Ven 39:58b Jl '42

Heat loss from steam pipes. G. M. Stearns. Oil & Gas J 41:49 O 1 '42

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38: 493-530 Je '42

Heat transfer by convection in annular spaces. C. C. Monrad and J. F. Pelton. bibliog diag Am Inst Chem Eng Trans 38: 593-608; Discussion. 609-11 Je '42

Heat transfer from wires to air in parallel flow. A. C. Mueller. bibliog diags Am Inst Chem Eng Trans 38:613-27; Discussion. 627-9 Je '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

How can I figure the heat transfer coefficients for these walls? diags Heating-Piping 14:427 Jl '42

Mean temperature difference in an array of identical exchangers. K. A. Gardner. bibliog il Ind & Eng Chem 34:1083-7 S '42

Measurement of heat-flow; Blackie surface heat-flow gauge. diag Chem Age (Lond) 45:211 O 18 '41

Method of compiling tables for intermittent heating; absorbance of walls. E. G. Smith. Heating-Piping 14:386-90 Je '42

New chart solves heat transfer calculations for fluids in viscous flow region. D. O. Hubbard and J. V. Roth. Chem & Met Eng 49: 100 Ja '42

New heat loss factors; data sheet. S. Konzo. Heating-Piping 13:761-2 D '41

Panel heating and cooling performance studies. B. F. Raber and F. W. Hutchinson. il Heating-Piping 14:125-32 F '42

Radiant heat transmission from water vapor. H. C. Hottel and R. B. Egbert. bibliog diags Am Inst Chem Eng Trans 38:531-65; Discussion. 565-8 Je '42

Simplified heat transfer correlation for semiturbulent flow of liquids in pipes. R. H. Norris and M. W. Sims. bibliog diags Am Inst Chem Eng Trans 38:469-90; Discussion. 490-2 Je '42

Space heating by means of electrically warmed floors, as applied to surface-type air-raid shelters; with cost data. R. Grierson. plan Inst E E J 89 pt 2:4-34; Discussion. 34-44 F '42

Transfer processes in annuli. J. H. Wiegand and E. M. Baker. bibliog Am Inst Chem Eng Trans 38:569-88 Je '42; Discussion. 38: 588-92, 719-22 Je, Ag '42

Unit for heat-transfer rates. L. S. Marks. Mech Eng 64:118 F '42; Excerpt. Heating-Piping 14:470 Ag '42

HEAT treating furnaces. See Furnaces, Heat treating

HEAT treatment

Alloys of manganese and copper; microstructure. R. S. Dean, C. T. Anderson and J. H. Jacobs. bibliog il Am Soc for Metals Trans 29:881-98 D '41

Alloys of manganese-nickel and copper; the coefficient of thermal expansion. R. S. Dean, C. T. Anderson and E. V. Potter. il Am Soc for Metals Trans 29:907-12 D '41

Alloys of manganese-nickel and copper; the electrical resistance and temperature coefficient of electrical resistance. R. S. Dean and C. T. Anderson. Am Soc for Metals Trans 29:899-906 D '41

Cold-pressing properties of duralumin-alloy sheets. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. il Engineering 154:258-60 S 25 '42

Controlling physical properties of rivets; Glenn L. Martin company technique. J. H. Eades. il Aero Digest 40:179-80, 183 My '42

Du Pont co. opens new laboratory for study and solution of problems in metal treatment and electroplating. il Metal Finishing 40:18 Ja '42

Economic advantages of certain aluminum alloys for aircraft construction. K. F. Thornton. Aeronautical Eng R 1:5-7, 9, 11 Ag '42

Electric salt bath treatment of aluminum aircraft alloys. C. Santore. il Metals & Alloys 15:254-5 F '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74, 76+ Mr 16 '42

HEAT treatment—*Continued*

Handling ammonia for metal treatment. L. H. Brandt. diags Metals & Alloys 16:60-6 Jl '42

Hardening characteristics of an iron-cobalt-tungsten alloy. W. P. Sykes. bibliog il Am Soc for Metals Trans 30:147-64; Discussion. 164-5 Mr '42

Heat treating aluminum aircraft parts. Iron Age 149:47-9 My 21 '42

Heat treating in enamel plants contributes to war program. Cer Ind 39:39 S '42

Heat-treatment of aluminum aircraft parts. T. E. Piper. il diags Am Mach 86:1107-10 O 1 '42

Heat treatment of aluminum and its alloys; abstract. Metals & Alloys 15:162 Ja '42

Heat treatment of refractory materials. N. W. Taylor and S. Zerfoss. bibliog il Blast F & Steel Pl 30:536-41 My '42

Homogenization of copper-nickel powder alloys. F. N. Rhines and R. A. Colton. bibliog Am Soc for Metals Trans 30:166-88; Discussion. 188-90 Mr '42

Hot work; heat-treating and carburizing operations require trained men and protective equipment. J. H. Heath. il Nat Safety N 45:20-1+ Ja '42

How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42

Materials for springs for electric equipment. P. M. G. Thorpe. il Elec R (Lond) 130:465-7 Ap 10 '42

Revealing the microstructure of Alcoa 24S alloy. F. Keller and R. A. Bossert. il Metal Prog 41:63-5, 67-72 Ja '42

Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42

Springs of beryllium copper. R. W. Carson. il Aero Digest 41:150, 153+ Jl '42

Technical progress paces victory march. Steel 110:322, 324-5 Ja 5 '42

Twelve-point recorder facilitates analyses of heat treatment processes. S. H. Isaacs. il Instruments 15:106 Ap '42

29th buyers reference number. il diag Am Mach 86:283-9 Ja 22 '42

Working of high-nickel alloys; heat-treating procedures. Am Mach 86:893-4 Ag 20 '42

You don't need a special furnace to anneal or heat-treat metals. G. B. Berlien. il diag Cer Ind 39:62+ Ag '42

See also

Annealing
Case hardening—
  Electric hardening
Electric furnaces,
  Heat treating
Furnaces, Heat treating
Quenching
Steel, Heat treatment of

Accounting

Heat treat costs; Caterpillar tractor, Peoria, Ill. G. T. Krider. N A C A Bul 23:1429-38 Jl 1 '42

Terminology

Heat treating terms defined. Iron Age 150: 103+ O 1 '42

HEAT units

Practical system of units for the description of the heat exchange of man with his environment; insulation of clothing. A. P. Gagge, A. C. Burton and H. C. Bazett. Science 94:428-30 N 7 '41

Unit for heat-transfer rates. L. S. Marks. Mech Eng 64:118 F '42; Excerpt. Heating-Piping 14:470 Ag '42

HEATERS

Design and performance of a direct-fired unit heater. R. M. Rush and H. A. Pietsch. il diags Heating-Piping 14:75-82 Ja '42; Discussion. 14:264-5 Ap '42

Dravo coal fired unit heater. il Paper Tr J 115:22 Jl 16 '42

Million tons of scrap from radiators! substitution of unit heaters and convectors. A. G. Dixon. il Heat & Ven 39:35-7 O '42

Novel heating applications in the shipbuilding field. F. Pederson. il Marine Eng 47: 133 Mr '42

See also

Air preheaters
Electric heaters
Electric water heaters
Furnaces
Gas heaters
Gas water heaters
Oil burners
Steam heaters

Standards

Flue-connected oil-burning space heaters equipped with vaporizing pot-type burners. il diags U S Nat Bur Stand Commercial Standard CS101-43:1-22 '42

HEATERS, Feed water. See Feed water heaters

HEATING

Benjamin Franklin, patron saint of heating. Heating-Piping 14:579 S '42

Bureau of census issues fuel data on single houses. Heat & Ven 39:70 O '42

Check chart for oil-fired heating boilers. Factory Management 100:104 Je '42

Combustion efficiencies as related to performance of domestic heating plants. A. P. Kratz, S. Konzo and D. W. Thomson. diag Ill U Eng Exp Sta Circ 44:1-30 '42 (pa 40c)

Cylindrical areas in heating and ventilating processes. W. F. Schaphorst. Heat & Ven 39:27 Mr '42

Facts and factors for heating men; a heat loss estimator and a handy guide for the heating contractor and dealer. 116p $1 Sheet metal publication co, New York '41

Fuel conservation, always good business, becomes wartime must. E. A. Tyler. il Heating-Piping 14:532-4 S '42

Fuel oil. Arch Forum 77:172+ S '42

Fuel waste estimated at 25 per cent. E. O. Eastwood. Power Pl Eng 46:59 S '42

Gas service manual; history of heating. W. L. Riehl. Gas Age 89:27 Ja 1 '42

Home insulation with mineral products; conservation of fuel for war. O. Bowles. U S Bur Mines Information Circ 7220:1-11 '42

How much fuel can be saved by lowering inside temperatures. C. Strock. Heat & Ven 38:43-5 N '41

How to give your customers fuel savings; fuel conservation surveys. il diags Dom Eng 160:42-5 S '42

How to save fuel. J. E. Haines. Heating-Piping 14:616 O '42

How to save fuel for heating; maintenance services data sheet. Factory Management 100:138, 140 O '42

Insulation and heating requirements. map Dom Eng 159:48-9+ My '42

Is this tomorrow's method of heating and cooling? radiant heating within reflective enclosures; heat absorbing device for cooling. C. F. Boester. il Heat & Ven 39:53-6 Ag '42

It's standards vs. conservation in heating. diag plans Arch Rec 91:47-8 Ja '42

Medical and public health aspects of heating oil rationing. L. D. Bristol. Heating-Piping 14:627-30 O '42

⅓ of the fuel consumed is normally wasted; check list offers twenty-eight suggestions on heating plant operation and maintenance. il diag Dom Eng 160:34-7 Ag '42

Operation of hand-fired heating plant in mild weather, including care when not in use. diag Consumers' Research Bul 9:14-16 Ap '42

Post-war housing; possibilities of gas and coke for heating; architectural design and heating. T. Potterton. diag plans Gas J (Lond) 238:318+ My 27 '42

Principles of heat engineering. N. P. Bailey. 264p $2.75 Wiley '42

Reducing fuel consumption; value of fireplaces; reducing night temperature, etc. T. W. Reynolds. Heat & Ven 39:33-4 Ap '42

Relative fuel equivalents for individual heating purposes and relative ton mile haulage requirements; report of sub-committee of the Informal fuel committee of the New England gas companies. Am Gas J 157:41-4 N '42

HEATING—*Continued*

Saving fuel in heating; reference section. J. F. Collins, jr. Heat & Ven 39:36-50 Je '42

Special heat supply for an invalid's room. diag Consumers' Research Bul 9:26-7 Mr '42

Storm sash: low cost fuel saving. C. P. Balsam. Sheet Metal Worker 33:36, 38 S '42

Suggestions on saving fuel. Sheet Metal Worker 33:34, 36 O '42

Ten ways to save fuel. Sheet Metal Worker 33:52+ S '42

Use of insulation to avoid alterations to heating plant. T. W. Reynolds. Heat & Ven 39:28 Mr '42

WPB issues wartime rules for house heating. charts maps Arch Rec 91:63-6 Ap '42

See also

Air conditioning
Boilers, Heating
Building—Heating aspects
Car heating
Chimneys
Electric heaters
Electric heating
Fuel
Furnaces, Warm air
Gas heaters
Gas heating
Heaters
Heating, Warm air
Heating from central stations
Hot water heating
Insulation (heat)
Mechanical equipment of buildings
Oil burners
Oil fuel
Radiators
Refractory materials
Steam heating
Ventilation
Waste heat

also subdivision Heating and ventilation under special subjects, e.g.

Air raid shelters
Auditoriums
Factories
Office buildings
School buildings

also American society of heating and ventilating engineers

Bibliography

Abstracts of current papers, books and pamphlets. Published in monthly numbers of Heating and ventilating

Emergency reading. C. P. Balsam. Sheet Metal Worker 33:84-5+ Ja '42

Selected listing of articles on fuel conservation published in Heating, piping & air conditioning. Heating-Piping 14:552 S '42

Control

Draft and draft controls. E. A. Field. Sheet Metal Worker 33:50, 52, 54 F '42

Cost

How to figure cost of raising room temperature from 60 to 70 degrees. Dom Eng 159:59+ Ap '42

Estimates

Charge for estimates. Dom Eng 160:53+ O '42

Panel system

Hollow floors for radiant heating. F. E. Markus. diags Heating-Piping 14:176 Mr '42

Panel heating and cooling performance studies. B. F. Raber and F. W. Hutchinson. il Heating-Piping 14:125-32 F '42; Discussion. 14:199-200 Mr '42

Panel heating with forced air. il diags Dom Eng 159:52-3+ Ap '42

Radiation as a factor in the feeling of warmth in convection, radiator and panel heated rooms. F. C. Houghten, C. Gutberlet and E. C. Hach. il plans Heating-Piping 13:778-85 D '41; Discussion. 14:200-1 Mr '42

Trend curves for estimating performance of panel heating systems. B. F. Raber and F. W. Hutchinson. Heating-Piping 14:432-7 Jl '42

Why panel heating? an experience report. H. F. Randolph. Heating-Piping 13:750-1 D '41; Discussion. T. N. Adlam. 14:110+ F '42

See also

Hot water heating—Panel system

Specifications

Specification short-cuts. Heating-Piping 13:758 D '41

Standards

Warm air heating for defense housing; with time-saver standards. diags Arch Rec 91:67-70 Ap '42

Tables, calculations, etc.

Analysis of periodic loads in composite walls. B. F. Raber and F. W. Hutchinson. diags Heating-Piping 14:367-8 Je '42

Attic temperatures, ventilation and heat losses. P. D. Close. diags Heating-Piping 14:694-8 N '42

Contractor's answer to problem of fuel rationing; figuring fuel requirements in medium and large buildings. H. T. Kucera. Dom Eng 160:62-8 S '42

Degree day figures for various large cities in the United States. Published in monthly numbers of Heating and ventilating

Degree days (65F base) for recent heating seasons, 1936-41, for various large cities; reference data. Heat & Ven 38:42a-42b N; 50a-50b D '41

Fuel storage and heating value data; reference data. Heat & Ven 39:58a-58b Ag '42

Gas service manual; heat requirements of buildings. W. L. Riehl. diags Gas Age 90:24-6 Ag 13; tables 27-8 Ag 27 '42

Graphical analysis of periodic loads. B. F. Raber and F. W. Hutchinson. Heating-Piping 14:241-2 Ap '42; Discussion. 14:298 My '42

Heat loss through basement walls and floors. F. C. Houghten and others. il diags Heating-Piping 14:69-74 Ja '42

Method of compiling tables for intermittent heating; absorbance of walls. E. G. Smith. Heating-Piping 14:386-90 Je '42

National warm air heating and air conditioning association heat loss factors. Sheet Metal Worker 32:32 D '41

New heat loss factors; data sheet. S. Konzo. Heating-Piping 13:761-2 D '41

Plumbing, heating, and air conditioning shop mathematics. H. D. Harper. 168p $1.50 Van Nostrand '42

Short cut heat loss estimating; reference data. Heat & Ven 39:58a-58b Je '42

Trend curves for estimating performance of panel heating systems. B. F. Raber and F. W. Hutchinson. Heating-Piping 14:432-7 Jl '42

Winter heat gains are important in fuel consumption estimates. C. Strock. Heat & Ven 39:50-2 Jl '42

HEATING, Industrial

Exhaust office air heats steel storage warehouse. il Heating-Piping 14:553-4 S '42

Heat requirements for hot dip galvanizing. W. G. Imhoff. il Steel 110:80, 85-6 Ap 27 '42

Heating and agitating pickling tanks; Heil steam-air agitator jets. C. E. Heil. il diags Metal Finishing 40:31 Ja '42

Heating cyanide solutions. diag Eng & Min J 142:64 N '41

How friction and forced draft affect stratification in kilns and dryers. E. Ledoux. diags Chem & Met Eng 49:92-5 Ja '42

How to save fuel oil; in factory heating, heat treatment, etc; prepared by staff of Socony-Vacuum oil company. il Factory Management 100:99-104 Je '42

Industrial heating with creosote pitch. C. H. S. Tupholme. Chem & Eng N 20:620 My 10 '42

Industrial plants; unit heating systems; with time-saver standards. il Arch Rec 91:68-9, 73-8 Je '42

Mercury for process heating; efficient operation at high temperatures. H. Seymour. diag Chem Age (Lond) 47:157-60 Ag 15 '42

Saving steam in finishing. P. L. Geiringer. Textile World 92:84-5 Mr '42

Shaft straightening with the blowpipe. A. B. Gordon. diags Power Pl Eng 46:110 Jl '42

Small radiant cups direct heat to work; method of using gas for industrial heating. F. O. Hess. il diag Metal Prog 41:217-20 F '42

HEATING, Industrial—*Continued*

Votator method of heat transfer; mechanism for heating or cooling of liquids and viscous materials. il diags Paper Tr J 114:31 Ap 9 '42

See also

Drying
Drying apparatus
Electric heating, Industrial
Foundry practice
Furnaces
Furnaces, Forging
Furnaces, Heating
Gas as fuel
Heat treatment
Kilns—Firing
Metallurgy
Oil fuel
Open hearth process
Ovens
Paint—Drying
Paper drying
Solder and soldering
Steel, Heat treatment of
Waste heat
Welding

Tables, calculations, etc.

Temperatures in solids during heating or cooling; tables for the numerical solution of the heating equation. F. C. W. Olson and O. T. Schultz. bibliog Ind & Eng Chem 34: 874-7 Jl '42

HEATING, Warm air

Air openings to furnace rooms. C. W. Pollock. Gas Age 90:27-8 Ag 13 '42

Asbestos ducts save metal. il Am Bld 64:114 Ap '42

Ceiling outlets for warm-air heating. il Sheet Metal Worker 32:68 N '41

Clay units save metal for radiant heating. il diag Brick & Clay Rec 101:14-16 Jl '42

Design and performance of a direct-fired unit heater. R. M. Rush and H. A. Pietsch. il diags Heating-Piping 14:75-82 Ja '42

Dormitories for war workers to have forced warm air heating. diags Heating-Piping 14: 422 Jl '42

For fuel conservation. Sheet Metal Worker 33:40+ S '42

Ford's Willow Run bomber plant; heating and air conditioning. G. S. Whittaker. il Heat & Ven 39:25-33 O '42

Furnace production passes crest; report by Bureau of census, first quarter of 1942. Sheet Metal Worker 33:46 Je '42

Gas furnaces led 1941 advance. Sheet Metal Worker 33:48, 50 Mr '42

Gas heat for individual apartments. il plan Sheet Metal Worker 33:38, 40 Ag '42

Gas service manual; space heating; warm-air systems. W. L. Riehl. diags Gas Age 89:25-7 Ja 29 '42

Gasco guide for improving forced warm air installation practices. H. P. Morehouse. Am Gas Assn Mo 23:430-1 D '41; Same. Am Gas J 155:50 D '41; Same. Gas Age 89:24-5+ F 12 '42

Heating FHA model community; Colonial Village, Ill. il plan Sheet Metal Worker 33: 106, 108+ Ja '42

Heating for low-cost housing. C. F. Mally. il diag plan Sheet Metal Worker 32:56, 58+ D '41

Heating the Mt Vernon home of 1941. il plans Sheet Metal Worker 32:64, 66 N '41

High lights of the research program; National warm air heating and air conditioning association. S. Konzo. Sheet Metal Worker 33:44, 46+ Jl '42

High velocity air circulation solves problem of heating large gym or armory; system used in Northwestern university's Patten gym. il diag Heating-Piping 14:30-1 Ja '42

Hollow floors for radiant heating. F. E. Markus. diags Heating-Piping 14:176 Mr '42

Individual apartment heating; gas-fired winter air conditioners, N.J. garden type apartments. il Sheet Metal Worker 33:119-20 Ja '42

Maintenance and repair orders. Sheet Metal Worker 33:30, 57+ My '42

On the midwestern war housing front; warm-air heating equipment. il diags plan Sheet Metal Worker 33:48-51 My '42

Panel heating with forced air. il diags Dom Eng 159:52-3+ Ap '42; Abstract. Brick & Clay Rec 100:26-7 Je '42

Performance of a forced warm-air heating system as affected by changes in volume and temperature of air recirculated. A. P. Kratz and S. Konzo. il Heating-Piping 14: 375-81 Je '42; Abstract. Sheet Metal Worker 33:36, 38+ Jl '42

Performance of side outlets on horizontal ducts. D. W. Nelson and G. E. Smedberg. il diags Heating-Piping 14:686-93 N '42

Research products sponsors fuel saving. Sheet Metal Worker 33:59 S '42

Small homes good prospects for warm air. il Sheet Metal Worker 32:54+ N '41

Springfield armory cafeteria heated by unit ventilators. il Heat & Ven 39:41 S '42

Substitute for metal in heating work; cold-air returns of sheetrock; United States gypsum co.'s remodel research house. il diag plans Sheet Metal Worker 33:23-4+ Ag '42

Successful specializing in heating work; Ricci bros. il Sheet Metal Worker 32:58, 60 N '41

Technical developments in the coal space heater. H. A. Eggert. In Ill U Eng Exp Sta Circ 43:13-18 '42

WPB new heating specifications. Sheet Metal Worker 33:46 Mr '42

War-time responsibilities; appeal to reason in production, sale and installation of warm-air equipment for projects sponsored by government. C. P. Balsam. Sheet Metal Worker 33:58+ F '42

Warm air for defense housing; Joliet, Ill. project. il plans Sheet Metal Worker 33: 56-7 F '42

Warm-air heat for highway garage. il diags plan Sheet Metal Worker 33:46+ S '42

Warm-air heat for music shell; electric system; Edward Hatch memorial music shell, Boston. il diags Sheet Metal Worker 33:96, 98+ Ja '42

Warm air heating for defense housing; with time-saver standards. diags Arch Rec 91:67-70 Ap '42

See also

Furnaces, Warm air
Heaters

Cost

Individual apartment heating cost. il Sheet Metal Worker 33:54 Ag '42

Tables, calculations, etc.

Air stack and branch chart. W. Scott. Sheet Metal Worker 33:42 F '42

New heat loss factors; data sheet. S. Konzo. Heating-Piping 13:761-2 D '41

HEATING boilers. See Boilers, Heating

HEATING equipment

Architects offer suggestions to heating and air conditioning equipment manufacturers. il Arch Rec 90:100-1 D '41

Burning Illinois coal smokelessly in hand-fired heating plants. J. R. Fellows and J. C. Miles. il diag In Ill U Eng Exp Sta Circ 43:83-99 '42

Check lists for saving oil. Heat & Ven 39: 54-5 O '42

Converting oil heaters to coal. Sheet Metal Worker 33:34 Ag '42

Don't trust your memory on maintenance work. L. O. Adams. il Heating-Piping 14: 592-4 O '42

FHA helping in change-over to coal. Am Bld 64:14 S '42

Government pushes campaign to convert-conserve; wartime guide to building materials and FHA terms. il Am Bld 64:54, 56 O '42

How does the switch to steel affect heating surface performance? Heating-Piping 14: 166-7 Mr '42

How to give your customers fuel savings; fuel conservation surveys. il diags Dom Eng 160:42-5 S '42

New equipment. Published in monthly numbers of Heating and ventilating

New housing critical list. Dom Eng 159:44, 98-100 Mr '42; Same. Heating-Piping 14:233-4 Ap '42; Excerpt. Sheet Metal Worker 33:43-4 Ap '42; Abstract. Heat & Ven 39: 61 Ap '42

HEATING equipment—*Continued*

Pointers on how to conserve equipment. C. A. Thinn; W. A. Schulmeister; M. F. May. Heat & Ven 39:55-7 Je '42

Sawdust burners heat buildings and homes automatically. E. C. Willey. il diags Heat & Ven 39:43-6 O '42

Simplification cuts frills, reduces sizes and varieties; orders of plumbing and heating branch of War production board. Dom Eng 159:40-1+ Ap '42

Victory program. il Dom Eng 159:36-46+ F '42

WPB issues order assigning A-10 rating for heating repairs. Heating-Piping 14:229-30 Ap '42

Wide variety of standard heating and air conditioning equipment in war use; army posts and naval stations. F. Pederson. il Heating-Piping 14:153-4 Mr '42

Your place in the smart man's war; conservation in heating and air conditioning work. G. W. Meek. il Heating-Piping 14:463-6 Ag '42

See also

Boilers, Heating	Furnaces
Coal burning equipment	Heaters

HEATING from central stations

Code for pressure piping; district heating piping systems. G. K. Saurwein. il Heating-Piping 14:215-17 Ap '42

Heating and process steam influence Iowa extension; two-part furnace burning both pulverized coal and refuse and turbine with head-end stage in two sections. J. M. Drabelle. il diags Elec W 117:2210-13 Je 27 '42

Heating large buildings; local steam heating is generally wasteful and uneconomic. D. H. Parry. Elec R (Lond) 131:517-19 O 23 '42

Heating steam requirements fix Commerce Street design; with cost data; Wisconsin electric power company. flow diag diag Elec W 116:2032-5+ D 27 '41

Industrial tape corp. heats its new building with high temperature hot water district heating system. J. F. Kern, jr. il Heat & Ven 39:108-12 Ja '42

National district heating association 33d annual meeting, Dayton, June 11-12. Heating-Piping 14:403-4 Jl '42

Piped-steam gain. Business Week p93 Jl 25 '42

See also Electric plants (central stations) —Steam distribution

HEATING industry

Additional regulating orders. Sheet Metal Worker 33:51-3+ Je '42

All divisions unite action in fuel conservation campaign. il Dom Eng 160:28-9+ Ag '42

All-industry drive for defense housing. il Dom Eng 158:46-7+ N; 34-7+ D '41

A.S.H.V.E. sets Aug. 17-22 as War on fuel waste week. il Dom Eng 160:30-1+ Ag '42

Boiler and radiator industry surveys plants to speed conversion. Heating-Piping 14:477 Ag '42

Coal and furnace dealers cooperate. il Sheet Metal Worker 33:44, 46, 57 Ag '42

Conservation viewpoints of government, industry. il Dom Eng 160:32-3+ Ag '42

Contractor is headquarters for conservation. il Dom Eng 160:42-3 O '42

Defense housing priorities; procedure to follow. Sheet Metal Worker 32:42, 44, 46, 48 D '41

Domestic Engineering guide to allocation symbols. Dom Eng 160:50a Jl '42

Effects of the war, priorities and allocations on plumbing, heating industry. W. J. Casey. Dom Eng 159:58+ Ja '42

Experts answer questions on priority and other problems. Dom Eng 159:28-9+ Je '42

Furnace demonstration methods that pay. G. H. Watson. il Sheet Metal Worker 33:40+ F '42

Heating limitation order L-79 explained by questions and answers. Heating-Piping 14:478 Ag '42

Heating-plumbing priority orders. Sheet Metal Worker 33:20-2 My; 21-2+ Je; 50-1+ Jl '42

Heating-sheet metal priorities. Sheet Metal Worker 33:23, 37+ F '42

Help for contractors. Dom Eng 160:53+ O '42

How the defense program is affecting buying and selling contracts. C. R. Rosenberg, jr. Heat & Ven 38:48-50 D '41

How to apply for repair priorities. Sheet Metal Worker 33:26-7 Je '42

Industry cooperates in conservation drive. il Dom Eng 160:60-1+ O '42

Insulation is a job for heating contractors. Dom Eng 159:42+ Ap '42

L-79 amended; text in full. Dom Eng 159:34-5+ Je '42

Materials flow chart shows how to obtain preference ratings and how to extend them to suppliers [3d ed]. Dom Eng 159:39-45+ My '42

New order (P-84) gives A-10 rating for repairs to existing plumbing and heating; with text. il Dom Eng 159:28-33+ Ap '42

New quiz on all-important L-79 (plumbing and heating equipment). Dom Eng 160:43+ Jl '42

Now, price ceilings on plumbing and heating jobs. Dom Eng 160:42+ Jl '42

Order P-84 for repair materials for repair of heating and plumbing work. Sheet Metal Worker 33:25, 32+ Ap '42

Planning for merchandising; time table for heating and cooling equipment selling. il Sheet Metal Worker 33:63, 66-74 Ja '42

Post war planning in our industry. il Dom Eng 160:46-7+ O '42

Priorities explained; flow chart shows how priorities effect jobs and flow of materials. Dom Eng 159:47-52 F '42

Problem clinic. Dom Eng 160:54 O '42

Questions and answers on today's vital problems. Dom Eng 159:36-8 My '42

Repair and inspection service plan; Spencer heater division of the Aviation corp. Sheet Metal Worker 33:54 Jl '42

Roads to plumbing and heating supplies; jobs which carry priority rating. flow chart il Dom Eng 159:38-47+ Mr '42

School on wheels for servicemen; tour of instruction of Delco-Heat service men. il Sheet Metal Worker 33:42 Mr '42

700 accounts in seven years; warm-air heating business; Morgan heating co. G. H. Watson. il Sheet Metal Worker 33:117-18 Ja '42

Ten to thirty per cent fuel savings in four out of five jobs! E. A. Cornely. il Dom Eng 160:34-5+ Jl '42

These men represent industry to Washington. Dom Eng 159:52+ My '42

Today's job; fuel conservation. il diags Dom Eng 160:36-47+ S '42

Up 1,200 per cent; extra-prompt service has given firm of heating contractors its best advertising; Plehal heating co., Minneapolis. il Dom Eng 159:66-7+ F '42

Victory program for our industry. il Dom Eng 159:44-53+ Ja; 36-46+ F; 51-2 Mr '42

WPB freezes stocks of new plumbing, heating equipment. Gas Age 89:62, 64 My 7 '42

WPB relaxes restrictions on gas appliances; plumbing and heating equipment. Gas Age 89:11-12+ Je 18 '42

War-time responsibilities; appeal to reason in production, sale and installation of warm-air equipment for projects sponsored by government. C. P. Balsam. Sheet Metal Worker 33:58+ F '42

What can the heating man do. S. Konzo. Sheet Metal Worker 33:86+ Ja '42

Your place in the smart man's war; conservation in heating and air conditioning work. G. W. Meek. il Heating-Piping 14:463-6 Ag '42

See also

Furnace industry and trade	Oil burner industry
	Stokers, Mechanical

Accounting

Job records, the basis of bookkeeping. il Dom Eng 160:46+ Jl '42

HEATING industry—*Continued*

Advertising

Advertising in the good will month. C. P. Balsam. Sheet Metal Worker 32:52+ D '41

Aids for the plumbing and heating contractor to use in his drive for fuel conservation. il Dom Eng 160:32-3 Jl '42

Directories

Directory section; manufacturers of equipment used in warm-air heating, air conditioning, ventilation and sheet metal work. Sheet Metal Worker 33:151-69 Ja '42

Heating, piping and air conditioning equipment for industry and large buildings; classified by products, trade names and manufacturers' addresses. Heating-Piping 14:sup239-325 Ja '42

Remodeling

Fuel savings; Wehby plumbing & heating company. il Dom Eng 160:51-2+ O '42

No priorities on insulation or ideas; insulating and remodeling; United States gypsum research home. il Dom Eng 160:36-7+ Jl '42

Remodeling Governor Thomas Bibb home at Belle Mina, north Alabama. il Dom Eng 159:64-5 Ja '42

Substitute for metal in heating work; cold-air returns of sheetrock; United States gypsum co.'s remodel research house. il diag plans Sheet Metal Worker 33:23-4+ Ag '42

Statistics

Business summary for 1941. Dom Eng 159:95-6 Ja '42

Furnace production passes crest; report by Bureau of census, first quarter of 1942. Sheet Metal Worker 33:46 Je '42

Gas furnaces led 1941 advance. Sheet Metal Worker 33:48, 50 Mr '42

Warm air furnace orders forge ahead; statistics for third quarter of 1941. Sheet Metal Worker 32:62+ D '41

War's effect on heater production. Sheet Metal Worker 33:42, 44 S '42

HEATING pipes

Clay units save metal for radiant heating. il diag Brick & Clay Rec 101:14-16 Jl '42

Mass heating installations for mass housing; pre-assembling of plumbing and heating piping in housing project. il plan Dom Eng 158:58-60+ D '41

Sewer pipe hot air heating system eliminates metal ducts. il diags Brick & Clay Rec 100:26-7 Je '42

HEATING, piping and air conditioning contractors national association

Annual meeting, 53d, Milwaukee, May 25-27. Dom Eng 159:36-7+ Je '42

HEATING research

Climate and heating; effect of climate in Britain on consumption of heat; abstracts. R. Grierson. Elec R (Lond) 131:516 O 23 '42; Electrician 129:447-8 O 23 '42

Combustion efficiencies as related to performance of domestic heating plants. A. P. Kratz, S. Konzo and D. W. Thomson. diags Ill U Eng Exp Sta Circ 44:1-30 '42 (pa 40c); Excerpts. Sheet Metal Worker 33:50-2 O '42

Committee on research, ASHVE annual report, 1941. il Heating-Piping 14:323-30 My '42

Factors influencing the heat output of radiators. A. C. Davis, W. M. Sawdon and D. Dropkin. il plans Heating-Piping 14:180-6 Mr '42

Gas heating research house erected at Los Angeles, Calif. F. A. Herr. il plan Am Gas J 156:25-6 My '42

Heat loss studies in four identical buildings to determine the effect of insulation. D. B. Anderson. il plans Heating-Piping 14:499-508 Ag '42

High lights of the research program; National warm air heating and air conditioning association. S. Konzo. Sheet Metal Worker 33:44, 46+ Jl '42

IBR research program at the University of Illinois; abstract. W. S. Harris. Heat & Ven 39:115-16 Ja '42

Measurement of the physical properties of the thermal environment; report of the ASHVE research technical advisory committee on instruments. Heating-Piping 14:382-5 Je '42

Observed performance of some experimental chimneys. R. S. Dill, P. R. Achenbach and J. T. Duck. il diags Heating-Piping 14:252-9 Ap '42; Abstract. Sheet Metal Worker 33:50+ S '42; Discussion. Heating-Piping 14:259-60 Ap '42

Performance of a forced warm-air heating system as affected by changes in volume and temperature of air recirculated. A. P. Kratz and S. Konzo. il Heating-Piping 14:375-81 Je '42; Abstract. Sheet Metal Worker 33:36, 38+ Jl '42

Performance of a hot-water heating system in the research home. A. P. Kratz and others. il diags plans Heating-Piping 13:766-73 D '41; Discussion. 14:262-4 Ap '42

Radiation as a factor in the feeling of warmth in convection, radiator and panel heated rooms. F. C. Houghten, C. Gutberlet and E. C. Hach. il plans Heating-Piping 13:778-85 D '41; Discussion. 14:200-1 Mr '42

HEAVING-shale problem. See Petroleum—Well drilling

HEAVISIDE expansion theorem

Response of a network to an arbitrary periodic driving force. E. W. Hamlin. Franklin Inst J 233:257-70 Mr '42

HEBREW university, Jerusalem

Hebrew university of Jerusalem; report. Science 96:151-2 Ag 14 '42

HECHT, Selig, 1892-

Ives medalist for 1941. por Opt Soc Am J 32:35-41 bibliog(p40-1) Ja '42

HECK, Nicholas Hunter, 1882-

Appointment as assistant to the director on scientific and technical matters, Coast and geodetic survey. Science 95:270 Mr 13 '42

HECKER products corporation

News and views on investments. H. Lawrence. Barron's 22:20 Ap 6 '42

Shares selling below net cash assets. H. Lawrence. Barron's 22:20 Mr 16 '42

HECLA mining company

Saga of the Hecla mining company. H. W. Ingalls. il Comp Air M 46:6591-5 N '41

HECTOGRAPH

Chemistry of duplication. J. Bjorksten. il Chem Ind 50:68-70 Ja '42

HEDGING

Cheap hedges against a market rise; speculative trust shares at large discounts. L. Tomlinson. Barron's 22:18 F 23 '42

Common stock and inflation; considerations in the use of equities in wartime. E. L. Maas. Trusts & Estates 74:183-4, 186+ F '42

Your best hedges against inflation. J. S. Williams. il Mag of Wall St 70:534-5+ S 5 '42

See also

Speculation

Stock exchange

HEELS, Rubber

Rubber heels inspected for perfection with X-rays. il Sci Am 166:250-1 My '42

HEGNER, Robert William, 1880-1942

Sketch. W. W. Cort. Science 95:373-4 Ap 10 '42

HEINZ, H. J., company

58 varieties; Heinz co. adds plywood. Business Week p79 Jl 25 '42

HEISEY, E. Wilson, 1875-1942

Sketch. por Am Cer Soc J (Bul) 21:35-6 Mr 15 '42

HELIARC process. See Electric welding, Arc—Heliarc process

HELICOPTERS

Helicopters of tomorrow. I. Sikorsky. il Aviation 41:90 Ja '42

On riding hummingbirds; abstract. Franklin Inst J 233:517-23 Je '42

HELICOPTERS—*Continued*

Personal aircraft. Business Week p16 S 26 '42

Review of rotating wing aircraft, 1941. A. Klemin. bibliog J Aeronautical Sci Aeronautical R Sec 9:9-11 F '42

Sikorsky helicopter. il Automotive & Aviation Ind 86:37 Ap 1 '42

Story of the Winged-S; with new material on the latest development of the helicopter; an autobiography. I. I. Sikorsky. enl ed 275p $3 Dodd '42

Technical development of the VS-300 helicopter during 1941. I. I. Sikorsky. il J Aeronautical Sci 9:309-11 Je '42

Tenth annual meeting of the Institute of the aeronautical sciences; review of technical papers. A. Klemin. J Aeronautical Sci Aeronautical R Sec 9:16-17 Mr '42

See also

Autogiros

HELIUM

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

Distribution of helium and radioactivity in rocks; mineral separates from the Cape Ann granite. N. B. Keevil. bibliog Am J Sci 240:13-21 Ja '42

Distribution of helium and radioactivity in rocks; radioactivity and petrology of some California intrusives. E. S. Larsen and N. B. Keevil. Am J Sci 240:204-15 Mr '42

Fine structure of nuclear energy levels on the alpha-model. C. Kittel. bibliog Phys R 62:109-17 Ag 1 '42

Helium production to be expanded at Amarillo. Oil & Gas J 41:21 Jl 9 '42

Inflammability of ether-oxygen-helium mixtures; their application in anesthesia. G. W. Jones, R. E. Kennedy and G. J. Thomas. U S Bur Mines Rep of Invest 3589: 1-15, pl 1 '41

Loss of energy of hydrogen ions in traversing various gases. C. M. Crenshaw. diags Phys R 62:54-7 Jl 1 '42

Martensite thermal arrest in iron-carbon alloys and plain carbon steels; helium gas as quenching medium. A. B. Greninger. bibliog il diag Am Soc for Metals Trans 30:1-26 Mr '42

New helium production plant announced. il Manuf Rec 111:40+ Jl '42

Range-velocity relation for fission fragments in helium. J. K. Bøggild. il Phys R 60: 827-30 D 1 '41

Rydberg corrections for D-terms in He I. L. Pincherle. Phys R 61:156-7 F 1 '42

Tensor forces and the theory of light nuclei; properties of H^3 and He^4. E. Gerjuoy and J. Schwinger. Phys R 61:138-46 F 1 '42

Theory of the initial avalanche in the breakdown of a discharge counter in helium. S. C. Brown. diags Phys R 62:244-54 S 1 '42

Triplets of helium. D. R. Inglis. bibliog Phys R 61:297-302 Mr 1 '42

Use of a McLeod gauge in measuring small volumes; applications to determination of small quantities of helium. N. B. Keevil, R. F. Errington and L. T. Newman. diags R Sci Instr 12:609-11 D '41

Values of R and of e/m, from the spectra of H, D and He^+. R. T. Birge. Phys R 60: 766-85 D 1 '41

See also

Electric welding,
Arc—Heliarc process

HELLMUND, Rudolph Emil, 1879-1942

Sketch. R. T. Henry. Ind Stand 13:154 Je '42

HELME, George W., company

Another look. Mag of Wall St 70:344 Jl 11 '42

HELMETS

Army helmet liner; laminated phenolic impregnated fabric. il Mod Plastics 19:35-8+ My '42

New combat helmet. R. R. Studler. Iron Age 149:70 Je 11 '42

New combat helmets and how they are manufactured. il Steel 111:122-3+ O 5 '42

Radiant heat dries helmet liners. il Am Mach 86:970 S 3 '42

Triumph in a helmet. il Mod Plastics 20:53-5 N '42

HELP wanted ads. See Advertisements, Classified—Want ads

HEMATIN

Pigment of the malaria parasite. D. B. Morrison and W. A. D. Anderson. bibliog Pub Health Rep 57:90-4 Ja 16 '42

Role of parasite pigment in the malaria paroxysm. D. B. Morrison and W. A. D. Anderson. bibliog Pub Health Rep 57: 161-74 Ja 30 '42

HEMATITE

Geology of the Josephine mine. E. L. Brown and W. F. Morrison. il plan map Can Min J 63:5-9 Ja '42

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

Production of hematite ore. Economist 142: 117 Ja 24 '42

HEMATURIA

Diagnosis of source of hematuria associated with industrial injuries. J. J. Crane. il Ind Med 11:476-9 O '42

HEMICELLULOSES

Hemicelluloses of cottonwood; abstract. E. Anderson, R. B. Kaster and M. G. Seeley. Paper Ind 24:776 O '42

HEMINGWAY, Wilson Linn, 1880-

Meet the vice-presidents. A. W. Atwood. pors Banking 34:76-9 D '41

HEMLOCK

Cutting based upon economic increment. S. O. Heiberg. bibliog Pulp & Pa of Can 43: 833-8 O '42

Decay of western hemlock in western Oregon and Washington. G. H. Englerth. 53p bibliog(p52-3) pa 75c Yale univ. School of forestry, 205 Prospect st, New Haven, Conn. '42

Interest in British Columbia log exports. Paper Tr J 115:28 S 17 '42

Some aspects of the chlorination of sulphite pulp. N. W. Coster and R. I. Thieme. bibliog diag Paper Tr J 114:31-5 Ja 8 '42

HEMOGLOBIN

Dielectric studies on muscle hemoglobin. H. O. Marcy, 3d and J. Wyman, jr. bibliog Am Chem Soc J 64:638-43 Mr '42

See also

Sulfhemoglobin

HEMORRHAGE

Antihemorrhagic activity of sulfonated derivatives of 2-methylnaphthalene. B. R. Baker and others. Am Chem Soc J 64:1096-1101 My '42

HEMP

Chile's hemp production. For Comm W 8:32 Ag 1 '42

Domestic hemp. Textile Col 64:311 Je '42

Domestic hemp campaign, to replace imported fibers. For Comm W 7:28 Ap 25 '42

Domestic hemp planting control vested in CCC. Oil Paint & Drug Rep 142:41 S 28 '42

Hemp-seed crop of Chile. For Comm W 6: 18 Mr 7 '42

Isolation of a physiologically active tetrahydrocannabinol from cannabis sativa resin. H. J. Wollner and others. bibliog Am Chem Soc J 64:26-9 Ja '42

See also

Manila hemp
Marihuana

HENDERSON, A. I.

Heads WPB Materials division. por Oil Paint & Drug Rep 141:3+ My 18 '42

HENDERSON, Lawrence Joseph, 1878-1942

Sketch. R. M. Ferry. Science 95:316-18 Mr 27 '42

HENDERSON, Leon, 1895-

From Washington; restlessness in Congress over Henderson's growth in power. C. Bargeron. Comm & Fin Chr 155:2209+ Je 11 '42

HENDERSON, Leon—*Continued*

Mr Henderson and his boys. Ptr Ink 199:68 My 8 '42

Statement concerning testimony before House ways and means committee. Comm & Fin Chr 155:1956-7 My 21 '42

HENEICOSANE

Higher hydrocarbons; five 11-substituted heneicosanes. F. C. Whitmore and others. Am Chem Soc J 64:1801-3 Ag '42

HENRY, Joseph, 1797-1878

Joseph Henry, pioneer in electrical science. H. S. Osborne. por Elec Eng 61:550-3 N '42

Joseph Henry, pioneer in space communication. W. F. Magie. il Inst Radio Eng Proc 30:261-6 Je '42

HENRY mountains, Utah

New interpretation of some laccolithic mountains and its possible bearing on structural traps for oil and gas. C. B. Hunt. bibliog diags Am Assn Pet Geologists Bul 26:197-203 F '42

HENRY'S law

Correlating gas solubilities and partial pressure data. D. F. Othmer and R. E. White. bibliog Ind & Eng Chem 34:952-9 Ag '42

HEPARIN

Heparin and the antithrombic activity of plasma. W. H. Seegers and others. Science 96:300-1 S 25 '42

HEPTALDEHYDE

Catalytic hydrogenation of heptaldehyde in vapor phase. T. Suen and S. Fan. bibliog Am Chem Soc J 64:1460-2 Je '42

HEPTANE

Effect of pressure on enthalpy of pentane, heptane, and isooctane. E. R. Gilliland and M. D. Parekh. bibliog Ind & Eng Chem 34:360-2 Mr '42

Heats of isomerization of the nine heptanes. E. J. R. Prosen and F. D. Rossini. bibliog J Research Nat Bur Stand 27:519-28 D '41

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

Theory of absolute reaction rates and the conductivity of hydrocarbons at high field strengths. N. Davidson. Phys R 61:721 Je 1 '42

HEPTYLRESORCINOL

Vicinal substituted resorcinols; alkylresorcinols; the synthesis of γ-*n*-hexyl, γ-*n*-heptyl and γ-*n*-octylresorcinols. A. Russell and H. C. Gulledge. Am Chem Soc J 64:1313-15 Je '42

HERBS

Herbs for daily use in home medicine and cookery. W. T. Quelch. 328p 8s 6d Faber & Faber, London '41

Herbs, their culture and uses. R. E. Clarkson. 226p $2.75 Macmillan '42

Magic in herbs. L. de Sounin. 208p $2 M. Barrows & co, New York '41

HERCULES powder company

Annual report, 1941. Comm & Fin Chr 155:400, 503 Ja 27, 31 '42

How tax rise affects chemicals. H. Lawrence. Barron's 22:20 F 2 '42

Outstanding in plastics and synthetic resins fields. Barron's 22:21 S 21 '42

HEREDITY

Hereditary transmission of induced tetraploidy and compatibility in fertilization. A. B. Stout and C. Chandler. Science 96:257-8 S 11 '42

In defense of the Kallikak study. H. H. Goddard. Science 95:574-6 Je 5 '42

Proposed institute for the study of human heredity; abstract. E. A. Hooton. Science 95:sup10 Je 26 '42

Race, reason and rubbish. G. Dahlberg. 240p 8s 6d G. Allen & Unwin, London '42

Statistical methods and human heredity; abstract. J. B. S. Haldane. Science 95:sup 12 Mr 20 '42

See also

Genetics

Mongoloid spot

HERNIA

Injection treatment versus open operation in hernial repair. H. Barker. Ind Med 11:280-2 Je '42

When is hernia compensable? A. H. Iason. Ind Med 11:3-6 Ja '42

HEROISM. See Courage

HEROLD, Don, 1889-

Gallery; that egg, don herold. F. R. Bellamy. por Adv & Sell 35:28+ Je '42

HERRICK, Elinore Morehouse, 1895-

Portrait. Business Week p75 S 5 '42

HERRING

Canadian herring trade. For Comm W 6:20 Ja 3 '42

HERRINGTON, Arthur William Sydney, 1885-

Personalities in industry. por Sci Am 166:219 My '42

Portrait. Business Week p22 Ja 24 '42

Sketch. por S A E J 50:sup23 F '42

HERSHEY, Pennsylvania

Preview of tomorrow's industrial life; story of an American institution and a living trust. A. Stoddart. il Trusts & Estates 74:89-92 Ja '42

HERSHEY chocolate company

Preview of tomorrow's industrial life; story of an American institution and a living trust. A. Stoddart. il Trusts & Estates 74:89-92 Ja '42

HERSHEY creamery company

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 N 24 '41

HERWICK, Robert P. 1905-

Head of Drug div. of F.D.A. por Oil Paint & Drug Rep 140:5+ D 8 '41

HESS, Rudolf, 1894-

Who sent Rudolf Hess? J. Murphy. 48p pa 6d Hutchinson & co, London '41

HETCH HETCHY water supply project

Add Hetch Hetchy; San Francisco's fight may be solved by aluminum plant. Business Week p35 My 2 '42

HETEROPHORIA. See Eye—Diseases and defects

HEVEA. See Rubber plants and planting

HEVEA latex. See Rubber latex

HEWLETT, James Monroe, 1868-1941

Sketch. Arch Forum 75:sup78 D '41

HEXADECYLAMINE

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

HEXADIENE

Conjugated diolefins by double bond displacement. A. L. Henne and A. Turk. bibliog Am Chem Soc J 64:826-8 Ap '42

HEXAHYDRODIPHENIC acid

Stereochemistry of catalytic hydrogenation; hexahydrodiphenic acids. R. P. Linstead and S. B. Davis. Am Chem Soc J 64:2006-9 S '42

HEXAMETHOXYBENZENE

Hexamethoxybenzene. R. Robinson and C. Vasey. Chem Soc J p660-2 O '41

HEXAMETHYLACETONE

Action of sodium on hexamethylacetone. P. G. Stevens and J. H. Mowat. bibliog Am Chem Soc J 64:554-6 Mr '42

HEXAMETHYLBENZENE

Rearrangement of 1,1,3,3,5,5,-hexamethylcyclohexatriol-2,4,6 to hexamethylbenzene. E. B. Ayres and C. R. Hauser. Am Chem Soc J 64:2461-2 O '42

HEXAMETHYLCYCLOHEXATRIOL

Rearrangement of 1,1,3,3,5,5-hexamethylcyclohexatriol-2,4,6 to hexamethylbenzene. E. B. Ayres and C. R. Hauser. Am Chem Soc J 64:2461-2 O '42

HEXAMETHYLDISILICANE

Molecular structures of the dimers of aluminum dimethyl chloride, aluminum dimethyl bromide, and aluminum trimethyl and of hexamethyldisilane. L. O. Brockway and N. R. Davidson. bibliog Am Chem Soc J 63:3287-97 D '41

HEXAMETHYLETHANE

Structures of methylenecyclobutane and hexamethylethane. S. H. Bauer and J. Y. Beach. Am Chem Soc J 64:1142-7 My '42

HEXANE

P-V-T relations and derived quantities for hexanes. E. A. Kelso and W. A. Felsing. bibliog Ind & Eng Chem 34:161-3 F '42

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

HEXANOL

Separation of lithium from potassium and sodium by treatment of the chlorides with higher aliphatic alcohols. E. R. Caley and H. D. Axilrod. Ind & Eng Chem Anal ed 14:242-4 Mr 15 '42

HEXAPHENYLETHANE

Heats of dissociation of some hexaarylethanes. R. Preckel and P. W. Selwood. bibliog diag Am Chem Soc J 63:3397-403 D '41

HEXATRIENE

Dehydration of 1,5-hexadiene-3-ol to 1,3,5-hexatriene and 1,3-cyclohexadiene. L. W. Butz. Am Chem Soc J 64:1978-9 Ag '42

HEXONE

Limiting flow in liquid-liquid extraction columns; naphtha-water and methyl isobutyl ketone water systems. F. H. Blanding and J. C. Elgin. bibliog diags Am Inst Chem Eng Trans 38:305-35; Discussion. 335-8 Ap '42

HEXYLDOCOSANE

Higher hydrocarbons; seven alkyl substituted docosanes. F. C. Whitmore, L. H. Sutherland and J. N. Cosby. bibliog Am Chem Soc J 64:1360-4 Je '42

HEXYLRESORCINOL

Vicinal substituted resorcinols; alkylresorcinols; the synthesis of γ-*n*-hexyl, γ-*n*-heptyl and γ-*n*-octylresorcinols. A. Russell and H. C. Gulledge. Am Chem Soc J 64:1313-15 Je '42

HEXYNE

Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

HEYDEN chemical corporation

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 1 '41

HEYWORTH, Geoffrey, 1894-

Study of new Lever chairman. L. Cotton. por Soap & San Chem 18:28-9+ My '42

HIDALGO, Texas

Bridges

Hidalgo-Reynosa bridge rebuilt. J. W. Beretta. il diag Eng N 127:890-1 D 18 '41

HIDES and skins

Argentine shippers conserve space. For Comm W 9:28-9 N 7 '42

Hides and skins in United States under WPB regulations. For Comm W 8:28 Ag 1 '42

How price control affects packers and tanners. Barron's 22:6 Je 1 '42

If the shoe fits; story of hides, leather, and the war. Business Week p92-4 Je 27 '42

Leather footwear outlook through 1943. J. G. Schnitzer. Survey of Cur Business 22:7-12 S '42

Shearlings go up; use in aviators' uniforms. Business Week p28 My 2 '42

Sheep and lamb skin industry in Iceland, 1941. For Comm W 7:23-4 My 9 '42

Shoe and leather business outlook for 1942. C. F. Danner. Comm & Fin Chr 155:451 Ja 29 '42

WPB now controls horsehide fronts. For Comm W 7:21 Je 13 '42

Will shoes have to be rationed? Barron's 22:6 Ag 10 '42

See also

Collagen
Leather

Statistics

Argentine exports; cattle, hogs, and sheep slaughtered, Jan.-May, 1938-1942. For Comm W 8:24-5 Ag 8 '42

HIGGINS, Andrew Jackson

That man Higgins. por Business Week p28+ O 17 '42

HIGH buildings

Big trusses for tallest Dallas building; Mercantile bank building. il diag Eng N 128:782-4 My 7 '42

See also

Empire State building
Office buildings
Steel construction

HIGH frequency electric furnaces. See Electric furnaces, High frequency

HIGH school buildings. See School buildings

HIGH school libraries

Standard catalog for high school libraries. I. S. Monro and R. Jervis, eds. 4th ed 1150p Wilson, H.W. '42

HIGH school students

Fortune survey; youth in high schools; comments upon the world. Fortune 26:8-10+ N '42

HIGH schools

Technical high school trains for life; Mont Pleasant technical high school, Schenectady. C. E. Crofoot. il Elec Eng 61:452-7 S '42

Shop courses

New metal trades high school; Murray Hill high school of building trades, New York. E. H. Bruggeman. il plan Sheet Metal Worker 33:22-4 S '42

Technical high school performs real service in war production training; Detroit's Wilbur Wright high school. G. E. Stedman. il Steel 111:50-2, 54 Ag 31 '42

HIGH voltages

Characteristics and performance in service of high-voltage porcelain insulators. J. S. Forrest. il diags Inst E E J 89 pt 2:60-80, pl 1-2 F '42; Abstract. Electrician 127:306-7 N 28 '41; Discussion. Inst E E J 89 pt 2:80-92, 249-54 F, Je '42

High voltage distribution. G. A. T. Burdett. Electrician 129:383-4 O 9 '42

High voltage power distribution underground. A. L. Lee. il diags Min Cong J 28:30-2+ Ap '42

Power design in defense plants; high-voltage supply. H. Winte. diags Elec W 116:2039-41 D 27 '41

Testing high-voltage circuit breakers. C. J. O. Garrard. diags Engineer 173:511-12, 530-1 Je 19-26 '42

See also

Lightning

HIGHWAY accidents. See Automobile accidents; Roads—Safety measures

HIGHWAY accounting

Depreciation problems; relationship to public works and government finance. R. W. Crum and R. Winfrey. Am Soc C E Proc 67:1631-7 N '41

HIGHWAY administration

Application of random sampling to fiscal studies; determining highway expenditures by several units of government. T. M. C. Martin. map Pub Roads 22:199-208+ N '41

Future viewpoint requires county planning of highways. G. M. Haley. Roads & Sts 84:70, 72 D '41

HIGHWAY administration—*Continued*

Highway progress in the province of Saskatchewan. Roads & Bridges 80:92-3 Ap '42

How one county keeps within the road budget; Cherokee county, Kansas, engineering department; system of records and reports. C. M. Cooper. Pub Works 73:16-18 Ja '42

Land use planning in relation to highways with specific reference to Delta county, Colorado. W. J. Keller. maps Pub Roads 23:5-13 Mr '42

Maintaining 750 miles of road, and building 50 miles of new for $60,000; Elk county, Kansas. J. J. Wardrip. il Pub Works 73: 14-16+ Ap '42

Profiting by experience in road construction, maintenance and administration. E. F. Willis. Can Eng R & B 79:26+ D '41

Project performance record as used in Idaho. C. C. Hallvik. Roads & Sts 85:70, 72 Mr '42

See also

Highway departments

Highway transportation

Roads—Finance

Streets

War measures

Emergency road net laid out for New York metropolitan district; secondary roads for use by civil population in emergency requiring use of main highways for military purposes. il map Eng N 128:560-1 Ap 9 '42

HIGHWAY departments

Consider reorganizing Jersey bureau. Eng N 129:188 Ag 6 '42

Directory, provincial highway officials; organization charts of 9 provincial highways departments, Canada. Roads & Bridges 80: 40-56 Jl '42

Some aspects of highway maintenance in peace and war. C. R. Waters. il Civil Eng 12:496-9 S '42

Buildings

Automobile testing stations, Wilmington, and Dover, Delaware. il diag plans Arch Forum 77:71-4 Jl '42

Equipment

Complete highway equipment survey completed by War production board's Bureau of governmental requirements. Eng N 129:62 Jl 9 '42

Construction equipment maintenance. il Roads & Sts 85:69-84 O '42

Experiences of Schoharie county in Diesel use. il Diesel Power 19:1041 D '41

Maintenance cost reduced by a California county. il Roads & Sts 84:29-30 N '41

New scheme of allocation classification symbols as applied to road, bridge and airport requirements; priorities system now effective in Canada. Roads & Bridges 80: 32-3, 70, 72+ Ag '42

Preference rating order P-22 superseded by P-100. Roads & Sts 85:58, 60, 62 Ja '42

Laboratories

Idaho's testing laboratory spells better highways. B. Snyder. il Concrete 49:6+ D '41

New Missouri highway laboratory building. V. H. Lyon. il plans Ind & Eng Chem Anal ed 13:851-4 N 15 '41

State highway laboratory of Alabama. il Roads & Sts 84:68 D '41

Libraries

Library-laboratory research. J. W. Kushing. Roads & Sts 84:46-7 D '41

Public relations

Motion pictures as a public relations medium; Emmet County road commission, Petoskey, Mich. Roads & Sts 85:30 Ap '42

Purchasing

Buying road equipment on the basis of performance; Ontario's hourly rental scheme of subsidizing machinery purchases. J. M. MacInnes. Roads & Bridges 80:70+ Mr '42

Instructions for preparation of new priority application form PD-1A. Roads & Sts 85:77-8+ Mr '42

Preference rating procedure applying to highway projects. Roads & Sts 84:74+ N '41

Records

Project performance record as used in Idaho. C. C. Hallvik. Roads & Sts 85:70, 72 Mr '42

See also

Bridges—Records

Shops

Dane county, Wisconsin, meets war emergencies in machines and parts. il Roads & Sts 85:70-2 O '42

Maintenance garages keep 'em running in spite of many handicaps; District no. 13, Illinois Department of public works and buildings, Division of highways. il plan Roads & Sts 85:78-80 O '42

HIGHWAY engineering

Alabama improves road into Birmingham. il map Eng N 129:190-1 Ag 6 '42

American equipment speeds Philippine defenses. J. J. Halsema. il map Roads & Sts 84:64, 66+ D '41

American highway practice. L. I. Hewes. 2v 461p; 492p v 1 $5; v2 $6 Wiley '42

Arizona develops economic highways. W. R. Hutchins. il Civil Eng 12:427-30 Ag '42

Better highways for national defense. L. I. Hewes. il Civil Eng 12:10-12 Ja '42

Blue Ridge parkway nears completion. il Roads & Sts 85:44, 47-8 Ap '42

Bottlenecks eliminated on a dangerous piece of road at Yuma, Arizona. J. C. Coyle. il Pub Works 73:25-6 S '42

Building a road by unusual methods under difficult conditions in northern Saskatchewan. W. M. Stewart. il map Roads & Bridges 80:21-4+ Ap '42

Building the Angeles Forest highway. E. A. Burt. il map Civil Eng 12:147-9 Mr '42

California Coast road project. A. Walsh. il Roads & Sts 85:19-23 Jl '42

Canada's wartime roadbuilding. T. G. Morgan. Roads & Bridges 80:122, 124-6 Mr '42

Classification of soils and control procedures used in construction of embankments. H. Allen. il diags Pub Roads 22:263-82 F '42

Completion of Ontario section, trans-Canada highway. il map Roads & Bridges 80:45-6+ O '42

Constructing Colorado's first clover leaf. E. F. Williams. il plans Roads & Sts 85:54+ Ap '42

Construction problems on the final link of the trans-Canada highway in northern Ontario. T. F. Francis. il Roads & Bridges 80:24-7+ Ja '42

Contractor and WPA build access road to Ft. Bragg. il Eng N 127:722-3 N 20 '41

Contractor builds access road by management contract. il diags Roads & Sts 85:44, 48, 50 Mr '42

Contractor invades territory of general mud; grade separation project in Arizona. P. F. Glendening. il Roads & Sts 85:25-30 Ap '42

Contractor's organization worked smoothly; Louisiana road work; with cost data. E. M. Gillen. il diags map Roads & Sts 85: 36-41 F '42

Control of underground water; discussion of subdrainage practice. M. J. Adams. il diags Pub Works 72:23-4, 26+ N; 24-7+ D '41

Design of highway sections for war and postwar needs. W. H. Simonson. il diags Roads & Sts 85:31-6 My '42

Design of roadside drainage channels. C. F. Izzard. Pub Roads 23:1-4, 13-14 Mr '42; Same cond. Pub Works 73:32, 34, 38+ S '42

Developments in curve design, speed and sight distance. C. M. Noble. diags Roads & Sts 85:25-31 Ja '42

Divided highways in California. F. Grumm. il diags Eng N 128:176-9 Ja 29 '42

Double tracking on U.S. route 12 to serve war industry; with cost data. il diags Roads & Sts 85:35-40 O '42

HIGHWAY engineering—*Continued*

Drainage problems on new Lake Mead road. G. D. Whittle. il map Civil Eng 12:196-8 Ap '42

Draining to prevent slippage of a road fill. il Pub Works 73:23-4+ Jl '42

Driving practice and its relation to highway design; studies by U.S. Public roads administration. Roads & Bridges 80:94+ Mr '42

Dual highways on Montreal island. A. Bergeron. il Can Eng R & B 79:13-15 D '41

Dual-type limited-access highway from Montreal to Quebec. J. Langevin. il Can Eng R & B 79:17-18+ N '41

Economic factors involved in proposed highway construction. W. L. Anderson. Roads & Sts 85:38-41 Mr '42

Engineering News-Record annual highway number. il diags Eng N 128:242-88 F 12 '42

Fire control and fire control roads in Nicolet national forest. L. Tausch, jr. il map Roads & Sts 85:41-3, 62 O '42

First stage of dual highway; Montreal to New York state border. A. Bergeron. il Can Eng R & B 79:15-16+ N '41

Five-mile road job requires 700,000 cu. yd. excavation; State highway 80, California. il Roads & Sts 85:44-6 O '42

Heavy rock work features Kentucky road. il Eng N 129:305-7 Ag 27 '42

Hemisphere highway to victory. H. C. Lanks. il Roads & Sts 85:35-9 Ag '42

Highway construction in the post-war period. G. D. Kennedy. il Civil Eng 12:381-4 Jl '42

Highway economics. H. Tucker and M. C. Leager. 454p bibliog(p443-9) $4 International textbook co, Scranton, Pa. '42

Highway engineering intelligence vs. rules and regulations. C. F. Seifried. Concrete 50: 6+ Je '42; Discussion (Highway contractor pleads for fewer rules, applied with intelligence). H. W. Read. 50:8+ Jl '42

Highway link across Australia built rapidly as a defense job. Eng N 128:865 My 21 '42

Highways then and now; milestones in the development of modern roads. B. H. Petty. il Purdue Univ Eng Ext Dept Ext Ser 52: 1-24 '41

How Missouri builds access roads. il diag map Eng N 129:412-14 S 24 '42

Introduction to highway engineering; a textbook for students of civil engineering. J. H. Bateman. 4th ed 459p $4 Wiley '42

Kanawha boulevard at Charleston extended. W. Brewster. il diags Eng N 127:789-91 D 4 '41

Maintaining 750 miles of road, and building 50 miles of new for $60,000; Elk county, Kansas. J. J. Wardrip. il Pub Works 73: 14-16+ Ap '42

Many changes of engineering interest in highway legislation of 1941. Eng N 128:28-9 Ja 1 '42

Naturalization of road banks; an integral part of highway construction. C. R. Hursh. il Roads & Bridges 80:22-6+ Jl; 80 O '42

New developments in field of highway construction. J. G. Schaub. il Concrete 50:33-4 N '42

Ohio defense highway to reduce accidents; highway flanked by deep ditch replaced with four-lane surface. il Pub Works 73: 32+ My '42

Ontario good roads association 40th annual meeting, Toronto, Feb. 25-26. Roads & Bridges 80:25-30+ Mr '42

Papers presented at the twenty-eighth annual conference on highway engineering, held at the University of Illinois, March 5-7, 1941. Ill U Eng Exp Sta Circ 42:1-91 '42 (pa 50c)

Parkways in New York metropolitan area. S. M. Shapiro. il map Civil Eng 12:239-42 My '42

Problems connected with landslides; abstract. T. H. Dennis and R. J. Allan. Roads & Bridges 80:79-80 Ja '42

Proceedings of the first Southeastern traffic engineering conference, 1941. 184p Clemson agricultural and mechanic college, Fort Hill, S.C. '41

Psychology in highway design. S. M. Spears. W Soc E J 46:275-87 D '41

Published proceedings of the Highway conference held in Knoxville, May 8-9, 1942. il diags Univ of Tennessee Record v 45, no 4:1-101 '42

Reconstruction of old pavements on heavily traveled highways. E. T. Baker. il diags Roads & Sts 85:42-7, 50+ Je '42

Relieving platform bulkhead for New York's East River drive. L. C. Hammond. il diags Civil Eng 12:251-4 My '42

Roadbuilding in the good old days; New York road construction early in the century. C. T. Fisher. il Eng N 128:849-52 My 21 '42

Roads under war restrictions. il Eng N 129: 484-8, 555-7, 627-30 O 8, 22, N 5 '42

Saving critical materials in bridge and highway construction. S. Mitchell. diags Roads & Sts 85:32-7 Ap '42

Scrapers and power shovels cooperate on Connecticut job. il plan Roads & Sts 84: 36-8 D '41

Skillful use of construction equipment on heavy roadwork. E. B. Bail. il diag Roads & Sts 85:25-34 Je '42

Soil mechanics studies and reconstruction work; protecting pumping station from slides; Grapevine grade on U.S. 99 in California. V. J. Brown. il diags plan Roads & Sts 85:25-32 Mr '42

Speed in construction of access road. M. B. Hodges. il Roads & Sts 85:38-40 Jl '42

Texas road construction in the emergency. F. Burkett. il Civil Eng 12:493-5 S '42

Toronto-Oshawa dual highway. C. A. Robbins. il map Roads & Bridges 80:24-5+ F '42

Traffic segregation design keeps them rolling. il plan Roads & Sts 85:54, 56+ My '42

Trans-Isthmian highway, Panama. il(p102, 103) map Engineering 153:101 F 6 '42

Wartime road problems. R. W. Crum. il Civil Eng 12:601-2 N '42

West Virginia builds defense roads. W. C. Blizzard. il Roads & Sts 84:42-3 D '41

What maneuvers are teaching us about military highways. J. W. Wheeler. Roads & Sts 85:50+ Ap '42

Work commences on the construction of the Alaska highway. il map Roads & Bridges 80:30-1+ Ap '42

See also

Bridge design
Bridges
Highway research
Mountain roads
Pavements
Pavements, Concrete—Design
Roads
Roads, Elevated
Streets
Traffic engineering

Tables, calculations, etc.

Transforming vertical curves. S. Gisser. Eng N 127:747 N 20 '41; Discussion. C. Macklin. 128:81 Ja 15 '42

Vertical curves for highways. D. W. Loutzenheiser. tables Pub Roads 23:89-94 Jl-S '42

HIGHWAY engineers

Members state highway department engineering personnel now in U.S. military service; list. Roads & Sts 85:36-40 Je; 52-66 Jl '42

Surveys of highway engineering positions and salaries. A. P. Richmond, jr. 80p bibliog(p80) pa $1.30; to members 65c Am. soc. of civil engineers, New York '41

Directories

Directory of consulting engineers in Canada. Roads & Bridges 80:120, 122 Jl '42

HIGHWAY finance. See Roads—Finance

HIGHWAY law

Loading legislation too arbitrary. J. L. McDonald. Roads & Bridges 80:82 Mr '42

Many changes of engineering interest in highway legislation of 1941. Eng N 128:28-9 Ja 1 '42

Public land acquisition in law and practice. H. R. Briggs and A. R. McGinley. J Land & Pub Util Econ 17:452-9 N '41

HIGHWAY law—*Continued*

Regulation of the weight of loads on rural highways. G. E. Stephenson. Roads & Bridges 80:78, 80 Mr '42

See also

Automobile laws and regulations
Highway administration
Motor bus lines—Laws and regulations
Motor trucks—Laws and regulations
Traffic regulations

California

Streets and highways code, 1941. 493p $2 Supervisor of documents, Sacramento, Calif. '41

HIGHWAY officials

New highway group to convene; Southeastern state highway officials; directors, officers. Roads & Sts 85:41 Ja '42

Directories

Directory of municipal road officials in Canadian cities, towns, counties and townships. Roads & Bridges 80:58-96+ Jl '42

HIGHWAY research

Highway research board annual meeting, Baltimore, Dec. 2-5. Eng N 127:842-3, 887-9; 128:35-7 D 11-18 '41, Ja 1 '42

Highway research in the Union of South Africa. B. H. Knight. il Chem & Ind 60:894-6 D 20 '41

Library-laboratory research. J. W. Kushing. Roads & Sts 84:46-7 D '41

Ohio analyzes its highways. J. R. Smart. il Civil Eng 12:313-15 Je '42

Rapid method of determining the binder and water contents of sand-bitumen and sand-tar carpets. C. M. Gough and E. H. Green. diag Soc Chem Ind J 61:91-3 Je '42

Results of highway-capacity studies. O. K. Normann. diags Pub Roads 23:57-81 Je '42

Studies of soil aggregate base-course mixtures. J. B. Garneau and C. E. Beland. Roads & Bridges 80:28-9, 75+ My '42; Same. Roads & Sts 85:56, 58, 60-1 Je '42

Study of stresses between tire and road. A. H. D. Markwick and H. J. H. Starks. Can Eng R & B 79:52 D '41

Wartime program of highway research. Roads & Bridges 80:60 Ag '42

Wartime road problems. R. W. Crum. il Civil Eng 12:601-2 N '42

HIGHWAY transportation

Automobile transportation in the war effort. C. L. Dearing. 47p pa 25c Brookings institution, 722 Jackson pl, Washington, D.C. '42

Bombers by truck; new trailer-tractor giants designed to haul Ford-built subassemblies. il Business Week p74+ Je 27 '42

Construction of roads in the North is profitable undertaking; how highway transportation has helped to develop northern Ontario. R. M. Smith. Roads & Bridges 80:88+ Mr '42

Development of transportation in the United States. J. E. Teal. il Am Soc C E Proc 67:1832-7 D '41; Discussion. 68:596-602, 807-11 Ap-My '42

Future development of highway transportation. T. H. MacDonald. Roads & Bridges 80:100 Mr '42

Get a horse. il Business Week p18-20 Ja 10 '42

Highway transport in wartime. H. S. Fairbank. il Civil Eng 12:550-3 O '42

Highway transportation is a dominant factor in the war production program; Michigan state highway department investigation into role played by trucks and civilian automobiles in the carrying out of the war effort. Automotive & Aviation Ind 86:36-8 Ap 15 '42

Highways in America; economic and strategic considerations. Index 21 no 4:80-7 [D] '41

New division created to administer added authority over highway transportation. Roads & Sts 85:87 Je '42

ODT goes to town; requiring certificate of war necessity of all commercial vehicle operators. Business Week p18-19 S 19 '42

Organisation of road transport; British road associations. Economist 142:832-3 Je 13 '42

Road transport. J. S. Nicholl. Engineer 172:258 O 17 '41

Study board gets transport report; study on Transportation in the public interest, submitted by the National highway users conference. Ry Age 113:382 S 5 '42

Study board issues public aid exhibits; Board of investigation and research created by the Transportation act of 1940; highway and waterway exhibits. Ry Age 112:1184-5 Je 20 '42

Transportation by highway in England under fire, a lesson for us. F. C. Horner. Am Pet Inst Proc 22(1):67-70 '41

Truck-bus knot; certificate applications come in slowly. Business Week p20+ O 31 '42

Wartime importance of highway transportation. P. R. Walters. Roads & Bridges 80:50 My '42

What truck, bus and cab control may mean. Barron's 22:12 S 14 '42

See also

Automobiles and roads
Highway engineering
Motor bus lines
Motor trucks in freight service
Motor vehicles
Railroads—Motor vehicle auxiliaries
Road traffic
Roads
Street traffic
Trailers

HIGHWOOD mountains

Igneous rocks of the Highwood mountains, Montana. E. S. Larsen and others. bibliog 2pls diag Geol Soc Bul 52:1829-68 D '41

HILL, Ellsworth Dewitt

Gallery; hardy on horseback. J. McCarthy. por Adv & Sell 35:28, 30 N '42

HILL, James Jerome, 1838-1916

James J. Hill's philosophy of railroad management. W. J. Cunningham. Ry Age 111:1081-2 D 27 '41

HILL, Robert Thomas, 1858-1941

Sketch. W. E. Wrather. por Am Assn Pet Geologists Bul 25:2221-8 D '41

HILL, New Hampshire

Hill, a planned town. J. L. Hayden. il map N E Water Works Assn J 56:202-11 Je '42

Hill recreated; a precedent for planners. A. Solow. il plans Arch Rec 90:44-55 N '41

HILLMAN, Sidney, 1887-

Hillman going upstairs? Business Week p76-7 Ap 25 '42

HILLSBORO, Illinois

Water supply

Treating a bad case of ceratium at Hillsboro. F. A. Roemelin. Pub Works 73:28 Jl '42; Same cond. Eng N 129:433 S 24 '42

HILLSIDE architecture

Hillside house, San Francisco; garage and bedrooms on upper floor; views, plans, and construction outline. Arch Forum 76:355-8 Je '42

Small houses; Los Angeles hillside house. il plans Arch Rec 90:67 N '41

HILTON, Ernest A. 1879-

E. A. Hilton pottery. por Am Cer Soc Bul 21:83-4 Je 15 '42

HIP joint

Methacrylate resins in surgery; with special reference to the reconstruction of arthritic joints. P. H. Harmon. il Mod Plastics 20:56-7+ S '42

Treatment of recent intracapsular fractures of the neck of the femur. J. W. Davis. Ind Med 11:422-5 S '42

HIPERSIL steel. See Silicon steel

HIRST, Hugo, 1863-

Lord Hirst fund. por Electrician 129:380-1 O 9 '42; Elec R (Lond) 131:457 O 9 '42

HISTAMINE

Hay-fever; histamine released by blood may be partially responsible. Science 94:sup13 N 28 '41

HISTONES

Antibacterial properties of protamine and histone. B. F. Miller and others. bibliog Science 96:428-30 N 6 '42

HISTORIC houses, etc.

English country houses. V. Sackville-West. 47p $1.35 William Collins sons, & co, 70 Bond st, Toronto, 2 '41

Historic American buildings survey; catalog of the measured drawings and photographs of the survey in the Library of Congress, March 1, 1941. 2d ed 470p Nat. park service, Washington, D.C.; pa 75c Supt. of doc. '41

Houses of old Richmond. M. W. Scott. 332p $5 Valentine museum, Richmond, Va. '41

Old Orange houses. M. P. Seese. 102p Mildred P. Seese, 15 W. Jackson av, Middletown, N.Y. '41

HISTORICAL atlases

American history atlas. A. B. Hart, D. M. Matteson and H. E. Bolton, eds. 5th rev ed lxviiip, 48p $2; pa $1.35 Denoyer-Geppert co, 5235 Ravenswood av, Chicago '42

European history atlas; ancient, medieval and modern European and world history. J. H. Breasted, C. F. Huth and S. B. Harding, eds. 5th rev ed lxivp, 48p $2; pa $1.35 Denoyer-Geppert co, 5235 Ravenswood av, Chicago '37

HISTORICAL distribution. See Time distribution

HISTORY

See also

Civilization

Economic conditions

Economic history

Philosophy

Faith for history's greatest crisis. R. Niebuhr. il Fortune 26:98-100+ Jl '42

HITLER, Adolf, 1889-

Germany possessed. H. G. Baynes. 305p $5 Nelson (Toronto) '41

Hitler's speeches and the United States. G. W. Prange. 32p pa 10c Oxford '41

Nemesis over Hitler. V. Meik. 128p pa 2s 6d Feature books, London '41

Three dictators. F. Owen. 2d ed rev 270p $2.50 Norton '41

HOARDING

Anti-hoarding campaign. J Retailing 18:48+ Ap '42

Currency hoarding's effect on stocks. B. Ravits. Barron's 21:8 D 22 '41

Folly of hoarding. C. C. Davis. Banking 34:63 Mr '42

Hoarding tangles paper products distribution; rainbow colors on way out. Sales Management 50:40, 42-3 Ap 1 '42

Impact of war on advertising; trouble on hoarding front. Adv & Sell 35:22-4 Mr '42

Recent changes in the demand for currency. Fed Res Bul 28:312-16, 453-4 Ap-My '42

HOBBIES

His hobby helped the navy; A. E. Banks collection of steam equipment used in training engineers of Naval reserve. il diag Power 86:727-8 O '42

Hobby club builds jobber good-will for industrial manufacturer. L. H. Brendel. il Ptr Ink 198:15 Ja 30 '42

Promotion to hold customer interest; Hines lumber company. F. C. Minaker. il Am Business 12:40, 42 Mr '42

HOBBING machines

Hobbing machine his hobby; W. W. Dickover builds miniature. il Am Mach 86:372 Ap 16 '42

HOEY, James J. 1877-1941

Sketch. por East Underw 42:19 N 14 '41; Nat Underw 45:3 N 13 '41

HOFFMAN, Paul G.

Portrait. Mach 48:118 Mr '42

HOGS. See Swine

HOISTING

Unit crossarms erected by gins. J. M. Dyer. il diag Elec W 118:1270 O 17 '42

Untanking tower handles transformers. L. J. Pospisil. il diag Elec W 117:310 Ja 24 '42

See also

Mine hoisting

HOISTING machinery

Arm type hoist permits lighter construction; hoists for dump trucks. il diags Product Eng 13:579-80 O '42

Automatic lifting; patent specification. diags Mech Handling 29:115-16 Je '42

Belt conveyors and belt elevators. F. V. Hetzel and R. K. Albright. 3d ed rev & enl 439p $6 Wiley '41

Block and tackle systems in well drilling. G. M. Stearns. diag Oil & Gas J 41:58 Jl 16 '42

Economy in construction with gas fuel; gas-generated steam hoists steel girders into place. il Gas Age 89:17 Mr 12 '42

Hoisting gear; patent specification. diag Mech Handling 29:116-17 Je '42

Life of wire hoist ropes. W. H. Dunkley. diags Engineering 153:14 Ja 2 '42

Speedy operating spur-geared chain hoist. il Ry Mech Eng 116:311 Jl '42

See also

Cableways

Conveying machinery

Cranes, derricks, etc.

Elevators

Mine hoisting

Ore handling

Wire rope

Maintenance and repair

Bronze welding iron castings. B. H. Higgs. diag Metals & Alloys 15:277 F '42

Economy in maintenance by metallizing; repairing drum shaft of hoist. W. H. Schacht. il Eng & Min J 143:44 Mr '42

Safety measures

Heavy duty safety; shipyard cranes. C. R. True. il Safety Eng 84:16-18 S '42

Mechanical equipment; handling materials. il Nat Safety N 45:66-8+ Mr '42

Safety and efficiency in handling materials. Pulp & Pa of Can 43:441-3 My '42

Safety gets a lift; sling for handling light and medium loads. W. Hobbs, jr. il Safety Eng 84:27 Ag '42

HOISTING machinery, Electric

Automatically controlled dredge; sand and gravel plant of Warner co. I. Warner. il diags plan Rock Prod 45:38-41+ Ap '42

Blast furnace skip hoist operation with amplidyne exciter control. C. P. Hamilton. il diags Blast F & Steel Pl 30:1023-5 S '42

Electric pulley blocks and telpher hoists. il Mech Handling 29:188-9 O '42

Gate-lift control holds constant head; Grandfathers Falls hydro station. M. E. Reagan. il diag Elec W 117:842 Mr 7 '42

Handling materials. il Elec R (Lond) 130:423-7, 455-9 Ap 3-10 '42

Improving a balky ash hoist motor. P. C. Ziemke. Power Pl Eng 46:93 F '42

Marryat and Scott electric pulley block and winch. diag Electrician 129:144 Ag 7 '42; Elec R (Lond) 131:278 Ag 28 '42

Pointers on selecting an electric hoist. C. E. Schirmer. il Food Ind 14:46-7 S '42

Regular crane inspection reduces maintenance, avoids breakdowns, assures safety. T. Marney. il Steel 111:135+ O 5 '42

See also

Mine hoisting, Electric

HOLDING companies

Economic implications of public utility holding company operations. M. H. Waterman. 180p $1 Univ. of Michigan press, Ann Arbor, Mich. '41; Reviews. Edison Elec Inst Bul 9:469 N '41; Pub Util 28:703-6 N 20 '41

Economic value of holding companies. Pub Util 28:762-4 D 4 '41

Holding companies between upper and nether millstones. O. Ely. Pub Util 28:823-5 D 18 '41

See also

American gas and electric company

Associated gas and electric system

Columbia gas and electric corporation

Commonwealth and southern corporation

Electric bond and share company

National power and light company

North American company

United gas improvement company

HOLDING companies—*Continued*

Finance

Appraisal of National Power & Light assets. O. Ely. Barron's 21:7 D 8 '41
Associated Electric hit by war. T. W. Fowler. Barron's 21:18 D 15 '41
Holding companies must work out capital adjustments. G. Purcell. Comm & Fin Chr 155:1261 Mr 26 '42
Holding company bond affords full return; United Light & Railways debenture 5½s, 1952, have sound assets and earnings. W. U. Amos. Barron's 22:19 Ag 3 '42
International Hydro-Electric bond interest cut likely. L. Edwards. Barron's 22:19 Je 8 '42
More income possible for Electric Power & Light. O. Ely. Barron's 21:8 D 15 '41
Simplification of holding company systems essential for survival. E. Burke, jr. Comm & Fin Chr 155:1868 My 14 '42
United Light & Power in dissolution. O. Ely. Barron's 22:7 F 2 '42
Values behind a utility preferred; Buffalo, Niagara & eastern power corp. M. Pescatello. Barron's 22:8 N 9 '42

Laws and regulations

Answers North American appeal on integration; SEC denies holding company has right to retain Cleveland and Milwaukee properties. Elec W News ed 118:1521 N 7 '42
Are we headed for socialism in the post-war period? H. A. Hanning. Pub Util 28:667-74 N 20 '41
Death sentence to be enforced by SEC. Elec W News ed 118:685 Ag 29 '42
Has power over operating companies, SEC holds; opinion in Jacksonville Gas case sets precedent. Elec W News ed 117:1991 Je 6 '42
Holding company dissolution, public ownership and war. F. J. McDiarmid. Pub Util 30:629-40 N 5 '42
International files dissolution plan. Elec W News ed 118:852 S 12 '42
Is SEC drifting off course? J. Preston. Pub Util 30:399-410 S 24 '42
Niagara Hudson cited in commission order. Elec W 118:777 S 5 '42
Niagara Hudson asks dismissal of SEC order. Elec W 118:1279 O 17 '42
Not so dead yet; three holding companies, launch test cases to try commission's power. Business Week p75+ Je 20 '42
Ogden; a case history in integration. Pub Util 28:698-700 N 20 '41
Recent developments in service company regulations; decision of Securities and exchange commission in New England power service company case. W. F. Kennedy. J Land & Pub Util Econ 18:100-2 F '42
SEC allows issuers to designate counsel to act for bidders in competitive cases. Comm & Fin Chr 154:1215 N 27 '41
SEC amends holding company form U5S. Comm & Fin Chr 155:339 Ja 22 '42
SEC goes to war. Business Week p92-3 S 26 '42
SEC integration of holding company systems. R. Blum. J Land & Pub Util Econ 17:423-39 N '41; Abstract. Pub Util 29:178-80 Ja 29 '42
SEC orders Associated to drop 116 subsidiaries. Elec W 118:623 Ag 22 '42
SEC orders International Hydro-electric dissolved. Elec W News ed 118:374 Ag 1 '42
To enforce utility death sentence. R. E. Healy. Comm & Fin Chr 156:707 Ag 27 '42
United corp. dissolution held necessary by SEC. Elec W 118:1109 O 3 '42
U.G.I. says Public service corp. of N.J. is an investment. Elec W 118:1282 O 17 '42
Utilities challenge SEC in court tests. Elec W News ed 117:2152 Je 20 '42

See also
Securities and exchange commission

Securities

American Gas & Electric yielding over 10%. O. Ely. Barron's 22:20 F 23 '42
Columbia Gas preferred stocks depressed; company's position would brighten if SEC approves refunding plan. O. Ely. Barron's 21:7 D 29 '41
Don't sell your utilities if you are holding the right kind. F. C. Fullerton. il Mag of Wall St 69:139-41+ N 15 '41
Electric Bond and Share plans further preferred retirement. Pub Util 30:501-2 O 8 '42
Liquidating value of Northern States Power. T. W. Hyde, jr. Barron's 22:5 S 14 '42
Reappraising holding company equities. O. Ely. Pub Util 30:429-31 S 24 '42
Six attractive utility preferreds; United corporation, United Light and Power, National Power and Light, Electric Power and Light, American Power and Light. F. C. Fullerton. Mag of Wall St 71:27+ O 17 '42
Speculative prospects in United Corp. preference stock. L. C. Payne. Barron's 21:20 D 1 '41
United Corp. preference at 44% discount. O. Ely. Barron's 22:18 Ap 6 '42
What values exist in holding company securities? F. J. McDiarmid. Pub Util 28:806-12; 29:21-9 D 18 '41, Ja 1 '42

HOLDING devices
Holders for light sheet riveting. diags Iron Age 150:50-1 Jl 30 '42

See also
Chucks
Clamps

HOLIDAYS
Prohibition of double pay for Sunday and holiday work. Monthly Labor R 55:717-19 O '42
Wartime banking hours. Banking 34:46 My '42

See also
Bank holidays
Vacations

HOLLAND, Lou E.
Portrait. Business Week p7 Jl 18 '42
Small war plant division headed by Holland. por Oil Paint & Drug Rep 142:5+ S 21 '42

HOLLAND, Thomas W.
Man who bosses wages and hours. por Business Week p7 Ja 17 '42

HOLLAND. See Netherlands

HOLLAND furnace company
High yield stocks with first call on earnings. G. Gordon. Mag of Wall St 70:350-1 Jl 11 '42

HOLLAND tunnel
Carbon monoxide and particulate matter in air of Holland tunnel and metropolitan New York. W. P. Yant and others. diags pls U S Bur Mines Rep of Invest 3585:1-69 '41
Medical study of men exposed to measured amounts of carbon monoxide in the Holland tunnel for 13 years. R. F. Sievers, T. I. Edwards and A. L. Murray. (Pub. health bul. no.278) 74p bibliog(p65-72) U.S. Public health service, Washington; pa 15c Supt. of doc. '42

HOLLINGSHEAD corporation
Hollingshead; specialist in specialties. J. M. Crowe and P. Slawter. il Chem Ind 50:218-22 F '42

HOLLOW tile
Help farm program by rebuilding barns with clay tile walls. J. M. Anderson. il Brick & Clay Rec 100:24-5 Je '42

HOLLYWOOD, California
Hollywood in uniform. il Fortune 25:92-5+ Ap '42

HOLMES, Edward, 1882-
Vice-president of the American ceramic society, 1942-1943. bibliog por Am Cer Soc Bul 21:65-6 My 15 '42

HOLMES, Oliver Wendell, 1841-1935
Mr Justice Holmes. F. Biddle. 214p $2.50 Scribner '42

HOLOCELLULOSE
Studies on lignin and related compounds; hydrogenation of wood. J. R. Bower, jr., J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3066-8 N '41

HOLOPHANE company
Stocks in strategic market position. Mag of Wall St 69:706-7 Ap 4 '42

HOLWECK, Fernand, 1889-1941
Sketch. S. Rosenblum and S. E. Luria. Science 96:329-30 O 9 '42

HOMANS, Sheppard, 1831-1898
Biographical sketch. R. W. Sheehan. por Spectator (Life ed) 149:12-14, 42 Ag '42

HOME

See also
Family

HOME builders institute of America (now National association of home builders)
Aroused builders protest. il Am Bld 63:37-8+ D '41
Homebuilders to unite to work with government. Comm & Fin Chr 156:180 Jl 16 '42
Long Island builders organize Institute chapter. Am Bld 64:78-80 Mr '42

HOME economics
Book of home economics. M. M. Leaming. 507p 69c Garden City pub. co., Garden City, N.Y. '42
Management in family living. P. Nickell and J. M. Dorsey. 477p $3 Wiley '42

See also
Budget, Household
Cost of living
Food
Fuel
Furniture
Heating
Interior decoration
Kitchens
Servants

Bibliography

Basic books and periodicals in home economics. 112p pa 50c Iowa state college lib, Ames '42

Study and teaching

Fundamentals in teaching home economics. I. Spafford. 2d ed 490p $3 Wiley '42

HOME insurance company of New York
Banks buy working control. Comm & Fin Chr 156:430 Ag 3 '42
Block of stock up for sale. Comm & Fin Chr 156:254 Jl 20 '42
Home fleet widely commended for rejoining the National board. East Underw 43:21 Je 5 '42
Home stays in Canadian Underwriters. Weekly Underw 147:857 O 10 '42
Insurance stocks; Royal bank of Canada will sell at auction shares of Home insurance co. and National liberty insurance co. Comm & Fin Chr 156:270 Jl 23 '42
Predict Royal bank of Canada will bid in stock; situation in Home fire security co. Nat Underw 46:2 Jl 23 '42
Sale of Home stock largest single trade ever in American market. F. L. Brokaw. Weekly Underw 147:210 Ag 1 '42
Two banks buy Home shares. Nat Underw 46:1 Jl 30 '42
Unusual study made of Home by security house. Nat Underw 46:4+ Ja 8 '42

HOME labor
Act regulating home work in Argentina. Int Labour R 45:203-5 F '42
Effect of home-work prohibition in artificial-flower industry. Monthly Labor R 54:642-6 Mr '42
Status of home workers under wage and hour law. Monthly Labor R 54:1358 Je '42
Wages and hours in the glove industry, 1941; factory, office, and home workers. E. B. Morris and E. M. Bunn. Monthly Labor R 54:711-36 Mr '42

HOME life insurance company of New York
Home Life results, objectives; abstracts. W. P. Worthington. Nat Underw (Life ed) 45:1+ N 7 '41; East Underw 42:11 N 7 '41

HOME loan banks
Annual report of NY home loan bank. W. Fallon. Comm & Fin Chr 155:444 Ja 29 '42
Chicago home loan bank enters second decade. Comm & Fin Chr 156:1434 O 22 '42
FHLB dividends higher for first half of 1942. Comm & Fin Chr 156:294 Jl 23 '42
Federal home loan bank review. Published monthly by the Federal home loan bank board, Washington, D.C.
FHLB sells debentures. Comm & Fin Chr 155:949 Mr 5 '42
Federal home loan bank system and its relation to the savings and loan field. J. A. White. Comm & Fin Chr 156:531 Ag 13 '42
FHLBS housing loans, 1941. Comm & Fin Chr 155:859 F 26 '42
Home loan bank dividends, 1941. Comm & Fin Chr 155:430 Ja 29 '42
Home loan bank system has 10th anniversary. Comm & Fin Chr 156:637 Ag 20 '42
Loan problem; federal officials worry lest savings-and-loans sell too much stock. Business Week p36+ O 24 '42
More government money retired from home loan banks. Comm & Fin Chr 155:1435 Ap 9 '42
Savings & loan system celebrates 10th year. Comm & Fin Chr 156:382 Jl 30 '42
12 Federal home loan banks report net of $3,779,000 for year ended Dec. 31, 1941. Comm & Fin Chr 155:573 F 5 '42

HOME loans. See Home owners' loan corporation; Home ownership—Finance

HOME office life underwriters association
Annual meeting, New York. Nat Underw (Life ed) 45:1, 24 N 21 '41
Spring meeting, Chicago. Nat Underw (Life ed) 46:1+ Je 5 '42; Weekly Underw 146:1302+ Je 6 '42

HOME owners' loan corporation
HOLC's fadeout. Business Week p54 O 3 '42
Rate of liquidation at new high. Survey of Cur Business 22:2 S '42
Securities fully guaranteed by U.S. government, by issuing agencies, amounts outstanding, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:47 Ja '42 [cont monthly]
Sees effect of defense on HOLC arrearages. C. F. Cotter. East Underw 43:23 Ja 9 '42
Treasury offers 1½% notes of 1946 to holders of maturing HOLC and RFC issues. Comm & Fin Chr 155:2048 My 28 '42
See also Insurance, Fire—Home owners loan corporation contract

HOME ownership
Four reasons for buying a home now. Bankers M 145:267 S '42
How to sell homes in wartime; advertising by Williams & Harter, Port Washington, L.I. il plans Am Bld 64:77-9+ Ap '42
Owners vs. renters. Arch Forum 76:sup48+ My '42
Roof over your head; what can the home buyer and renter expect? G. Schaefer. 66p George Schaefer, jr, 73 Edgemont road, Scarsdale, New York '41
Sees many prospects for home ownership; conclusion of Home building and home owning committee of the United States savings and loan league. Comm & Fin Chr 156:725 Ag 27 '42

See also
Home owners' loan corporation

Finance

Federal home mortgage and housing agencies; loans and discounts outstanding, by institutions, yearly June and Dec. 1933-1940 and monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:52 Ja '42 [cont monthly]
Home building restricted; financing facilities for purchase of existing houses. A. H. Ferguson. Comm & Fin Chr 156:371 Jl 30 '42
Insured equities; FHA insurance of home owner's equity rather than insuring the mortgage. Arch Forum 76:80+ F '42
Paul Roche looks ahead to V + 1; answer to post-war program. J. B. Mason. il diags plans Am Bld 64:44-7+ S '42
Rent options; Milbrook Park housing project, Hartford, Conn. Arch Forum 76:80 F '42

HOME work. See Home labor

HOMEOMORPHY
Homeomorphy, and a remarkable illustration. P. E. Cloud, jr. Am J Sci 239:899-904, pl 1 D '41

HOMESTAKE mining company
Another look. Mag of Wall St 70:291 Je 27 '42

HOMESTEADS
See also
Subsistence homesteads

HOMICIDE
Statistical study of the homicide death rate. T. J. V. Cullen. Spectator (Life ed) 148: 6-9+ Ja 15 '42

HONDURAS
See also
Mines and mineral resources—Honduras

Economic conditions

News by countries. For Comm W 7:15 My 9; 16 My 30; 8:20 Jl 11 '42

HONESTY
From saints to sinners. C. S. Rich. Bankers M 145:257-8 S '42
Honesty test in employment; abstract. W. D. Scott and others. Management R 30:445-6 D '41

HONEY
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:42 Jl 27 '42
Nectar and pollen plants of California. G. H. Vansell. il maps rev ed California Agricultural Exp Sta (Berkeley) Bul 517:1-76 '41
WPB limits use of honey. Comm & Fin Chr 155:1352 Ap 2 '42

HONGKONG, China
British rule in eastern Asia; a study of contemporary government and economic development in British Malaya and Hong Kong. L. A. Mills. 581p bibliog(p514-48) $5 Univ. of Minnesota press, Minneapolis '42
Hongkong before the siege. Economist 141: 750 D 20 '41
New era in Hongkong. Economist 141:473-4 O 18 '41
See also
Electricity supply—Hongkong
World war, 1939—Hongkong

HONING
Applications of the honing process in ordnance production. A. M. Johnson. diags Steel 109:48-9+ D 22 '41; Same cond. Mach 48:156-7 O '41; Same. Mech Eng 63:811-13 N '41
Honing tools and related equipment. L. S. Martz. diags Mech Eng 63:865-9 D '41; Same cond. Steel 109:50-2 D 29 '41; Excerpts. Machine Design 13:66-7 N '41
New abrasive stone aids production; Micro-Super-X-bond. Aviation 41:104 Ja '42
Special stones hone blind holes. L. P. Jackson. diags Am Mach 86:443 My 14 '42

HONING machines
Barnesdril vertical honing machine. il Mach 48:170 Je '42

HONOLULU

Rapid transit

Trolley coaches do it again; conversion in Honolulu. il Transit J 85:421 N '41

Water supply

Honolulu wartime water works activity. F. Ohrt. il Am Water Works Assn J 34:1141-62 Ag '42
Tunnels for increasing Honolulu's artesian water supply. diag Pub Works 73:29 Ja '42

HOOK, Charles R. 1880-
Builder of defense. T. J. Sullivan. por Am Cer Soc J (Bul) 21:15-17 F 15 '42

HOOVER library
Dedication of the Hoover library on war, revolution, and peace, Stanford university, June 20, 1941. 43p $1 Stanford univ. press '41

HOOVER medal
D. Robert Yarnall receives Hoover medal for 1941. Power 85:934b+ D '41; Same cond. Min & Met 22:601 D '41

HOPPERS
Angles between planes; simplified graphical method of measurement. H. H. Stevens, jr. diags Product Eng 13:443-5 Ag '42

HOPS
Hop picking and drying; electrical methods. il Elec R (Lond) 130:461-3 Ap 10 '42
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:44 Je 15 '42

HOPSON, Howard Colwell
Hopson's legacy; SEC divestment order for AGE corp. Business Week p86-7+ Ag 22 '42

HORMEL, George A., and company
Economic effects of steady employment and earnings; a case study. J. Chernick. 75p bibliog(p75) pa $1.25 Univ. of Minnesota press, Minneapolis '42

HORMONES
Cold Spring Harbor symposium on quantitative biology; relation of hormones to development. Science 95:451 My 1 '42
Effect of artificial changes in the brain on maze-learning in the white-rat; effect of injections of the pituitary growth hormones. C. J. Warden, S. Ross and S. Zamenhof. bibliog Science 95:414-15 Ap 17 '42
Experiments on the synthesis of potential cortical hormone substitutes; hydroxy-carbonyl derivatives of diphenyl ether and related compounds. J. Walker. Chem Soc J p347-53 My '42
Gland control; new discoveries; abstract. H. M. Evans. Science 95:sup10+ Mr 27 '42
Increased liver arginase on administration of adrenocortical and corticotropic hormones. H. Fraenkel-Conrat and H. M. Evans. bibliog Science 95:305-6 Mr 20 '42
Physico-chemical characteristics of the interstitial cell stimulating hormone from sheep pituitary glands. C. H. Li, M. E. Simpson and H. M. Evans. bibliog il Am Chem Soc J 64:367-9 F '42
Relation of urinary citric acid excretion to the menstrual cycle and the steroidal reproductive hormones. E. Shorr, A. R. Bernheim and H. Taussky. bibliog Science 95: 606-7 Je 12 '42
Schering, Ciba, Rare Chemicals, Organon fined as trust. Oil Paint & Drug Rep 140: 3+ D 22 '41
Solubility of anterior pituitary gonadotropin in alkali halide solutions. D. O. Rosbash, C. A. Elden, and M. D. Nutting. Science 96:70 Jl 17 '42
Some precocious developmental changes produced by adrenal cortical hormones. M. G. Mulinos and L. Pomerantz. Science 95:484-5 My 8 '42
Steroid hormone excretion by normal and pathological individuals. K. Dobriner and others. bibliog Science 95:534-6 My 22 '42
Synthesis of an analog of the sex hormones. W. E. Bachmann and D. G. Thomas. bibliog Am Chem Soc J 64:94-7 Ja '42
Zoology in 1941. M. L. Gabriel and H. B. Steinbach. Chem & Eng N 20:257-8 F 25 '42
See also
Estrone

HORMONES, Plant
Control of flowering with phytohormones. H. E. Clark and K. R. Kerns. Science 95:536-7 My 22 '42
Present status of plant hormones; abstract. P. W. Zimmerman. Can Chem & Process Ind 26:588 O '42
Synthetic plant hormones. Science 95:sup12 My 8 '42

HORNBLENDE
Determination of extinction angles in monoclinic pyroxenes and amphiboles. F. J. Turner. bibliog Am J Sci 240:571-83 Ag '42
See also
Amphibolites

HORSE and wagon insurance. See Insurance, Horse and wagon

HORSEPOWER
Computing horsepower from revolving watt-hour meters. Water Works & Sewerage 89:sup192-3 Je '42
Determining brake horsepower. G. M. Stearns. diag Oil & Gas J 41:55 O 29 '42
Horsepower of hydraulic-turbine wheels. F. L. B. Miller. Mech Eng 64:612 Ag '42
Indicated engine horsepower. G. M. Stearns. Oil & Gas J 41:70 O 22 '42

HORSES
Abdication of automobile brings new challenge to merchandisers; effect on various industries. P. H. Erbes, jr. Ptr Ink 198: 17, 40-1 Ja 23 '42
Dobbin's day. il Business Week p20+ Je 6 '42
Get a horse. il Business Week p18-20 Ja 10 '42

HORTICULTURE
Theaters, gardens and horticulture. C. S. Gager. Science 95:635-9 Je 26 '42

HORTON, Franklin Porter, 1874-
50th anniversary. East Underw 43:33 F 13 '42

HOSDREG company, Huntington, Indiana
Getting war contracts for a small plant. C. H. Drew. Factory Management 100:99-100 Ag '42

HOSE
Air-hose testing device. il Ry Mech Eng 116: 434-5 O '42
Don't abuse rubber; how to prolong its life. W. S. Richardson. il Factory Management 100:91-3 F '42
How to conserve rubber hose; abstract. K. B. Christie. Am Mach 86:486+ My 14 '42
How to increase the life of rubber hose. S. H. Coleman. Power Pl Eng 46:95 Jl '42
Keeping rubber in service; proper care prolongs life of belting and hose. il Can Chem & Process Ind 26:401+ Jl '42
Longer life for industrial rubber products. H. A. Everlien. il Paper Ind 24:147-8 My '42
Properties and uses of Resistoflex; synthetic-resin-lined hose. W. MacWilliam. il Aero Digest 40:229+ My '42
Rubber conservation; hose care. Chem Ind 50:519, 654 Ap-My '42
Saflex plastic hose. Rayon 23:551 S '42
Stainless-steel metal hose used in aircraft. il Mach 48:158 D '41
200 do's and dont's that make rubber goods last longer. il Power 86:382-3 Je '42

See also
Air brake hose
Fire hose
Steam hose

HOSE couplings
Don't abuse rubber; how to prolong its life. W. S. Richardson. il Factory Management 100:93 F '42
Hose couplings and fittings should be properly attached for longer life and greater safety. diags Eng & Min J 143:117 Ag '42

HOSE fittings
Thermoplastics in the garden. il Mod Plastics 20:68 N '42

HOSIERY
Available rayon hosiery yarns. H. R. Mauersberger. Rayon 23:220 Ap '42
Celanese yarn suitable for full-fashioned hosiery. J. P. Holmes. Rayon 23:622 O '42
Dolls prove the power of miniature; hosiery window displays. M. C. Tucker. il Mod Packaging 15:74-6+ Ja '42
Facts about your new rayon stockings. Textile Col 64:323 Jl '42
Fine rayon allotments for hosiery uses. Rayon 23:349 Je '42
How to find the total number of needles in full fashioned hosiery. Rayon 23:193 Ap '42
How to tell full-fashioned hosiery from seamless. diags Rayon 23:286 My '42
In place of silk hosiery. il Consumers' Research Bul 9:10-12 My '42
New mesh designs for cotton hosiery. il Rayon 23:404 Jl '42
New treatment for rayon hosiery yarn. L. E. Rossiter. Rayon 23:538 S '42
Opaque leg. il Fortune 26:26+ O '42
Progress in sizing and twist for rayon hosiery. Rayon 23:534-5 S '42
Progress in yarn sizes for rayon hosiery. M. H. Mosher. il Rayon 23:531-3 S '42
Rayon and cotton to dominate. il Textile World 92:78-9 Mr '42
Rayon hosiery. E. L. Lauber. Rayon 23:477-8 Ag '42
Report of the research committee of the National assn. of hosiery mfrs. il Rayon 23: 345 Je '42
Review of present hosiery products. N. Gowdy. il Rayon 23:188-91 Ap '42
Science in socks; the army has developed an air conditioned sock. Textile Col 64:478 O '42
Silk substitution in hosiery. Rayon 22:729 D '41
Use of Bemberg in rayon hosiery. T. Johnson. Rayon 23:346-8 Je '42
Woman complains. Business Week p87 O 3 '42

See also
Dyes and dyeing—
Hosiery

Manufacture

Advice to full-fashioned knitters; possibilities of substitute yarns. M. C. Miller. il diags Textile World 92:90-1+ Ap; 78-80 My; 83-4 Je '42
Cupra rayon. T. Johnson. Rayon 23:478 Ag '42
Dyer of rayon hosiery must have cooperation of throwster and knitter. V. A. Schiffer. il Textile World 92:92-3 Ap '42
Excerpts from the Rayon and cotton hosiery handbook. il Rayon 23:203-4 Ap '42
Finishing the newer types of rayon hosiery. H. H. Mosher. Am Dyestuff Rep 31:197-8, 219-20 Ap 27 '42
Handling of nylon and union hosiery. H. H. Mosher. il Rayon 22:723-6; 23:35-7, 105-8 D '41-F '42
Improving seamless hose. il Textile World 92:111-12 S '42
In knitting rayon hosiery; manufacturers must pay heed to properties of yarns. Textile World 91:66-7 D '41
Knitting full-fashioned. W. T. Leggis. il Textile World 92:110-11 S '42
Knitting the new hosiery; handling cotton and rayon on full-fashioned machines. W. A. Simond. il diags Textile World 92:86-7 O '42
Manufacturing of full fashioned hosiery in relation to the finish. J. Kelly. Am Dyestuff Rep 30:715+ D 22 '41
More about making rayon hosiery. E. M. Schenke. il Rayon 23:201-2 Ap '42
National assn. of hosiery manufacturers research recommends on rayon hosiery constructions. Rayon 22:712-13 D '41
New nylon problems created by rayon welts. V. A. Schiffer. Rayon 22:668-9 N '41
New rayon hosiery yarn table. H. R. Mauersberger. Rayon 23:598 O '42
Processing new types of viscose, bemberg, nylon and mixture hosiery. L. O. Koons. Rayon 23:108-9 F '42; Same. Textile Col 64:285-6+ Je '42
Processing products for replacement materials to be used in the manufacture of silk hose. C. B. Kinney. Am Dyestuff Rep 31:87-90 F 16 '42
Processing rayon hosiery yarn before knitting. J. H. Brine. Rayon 23:163 Mr '42
Rayon hosiery dyed and finished to replace silk. N. D. White. Rayon 23:212-13 Ap '42
Rayon hosiery is here to stay. il Textile World 92:74-5 Jl '42
Rayon yarn in the hosiery industry. Rayon 22:669-70 N '41
Silk's hosiery role ended Jan. 1; amount of rayon needed to equal pound of silk. E. Constantine. Textile World 92:69 Ja '42
Soaking rayon for hosiery. C. W. Bendigo. Textile World 92:68 Ja '42
Synthetic fibers in the knitting field; discussion sponsored by the Am. assoc. of textile technologists. Rayon 23:477-8, 535-7 Ag-S '42
Technical panel discussion on rayon hosiery. E. M. Schenke, E. N. Ditton and E. L. Lauber. Rayon 23:99-100 F '42

HOSIERY—Manufacture—*Continued*

Textile chemistry in knitting full-fashioned hosiery. V. A. Schiffer. Rayon 23:209-11 Ap '42

Throwing rayon hosiery yarns. C. W. Bendigo. il Textile World 92:96 Ap '42

Throwster serves the silk hosiery industry without silk. G. A. Urlaub. Am Dyestuff Rep 30:708-9+ D 22 '41

Use of Avconit no. 1 in manufacturing rayon hosiery. E. L. Lauber. Rayon 23:348-9 Je '42; Same. Textile Col 64:391+ Ag '42

Use of rayon in hosiery. E. L. Lauber. il Rayon 23:97-8 F '42

Why use high twist in rayon hosiery? J. A. Van Laer. Rayon 22:727-8 D '41

See also

Hosiery machines

Hosiery mills

Rating

Men's socks. il Consumers' Research Bul 9:4-6 D '41

Testing

Laboratory controlled throwing; use of testing instruments helpful in maintaining quality control of rayon yarn. W. Haene. il Textile World 92:80-1 Ag '42

New hosiery abrasion test. Textile Col 64:299 Je '42

New type hosiery tester. M. N. Holmes. il Rayon 23:216 Ap '42

Rayon hosiery testing. Textile Col 64:365 Jl '42

Rayon hosiery testing. F. T. Mosedale. il Rayon 23:214-15 Ap '42

HOSIERY machines

ELWI rayon paste for use on hosiery machines. il Rayon 23:476 Ag '42

Fixing hosiery machines; circular machines (cont). J. W. Hughes. il diags Textile World 91:109-10 D '41; 92:101 Ja; 130-1 F; 110 Mr; 97-8 Ap; 96 My; 91 Je; 80 Jl; 105 Ag; 134 S; 97 O '42

Fixing hosiery machines; full fashioned machines (cont). W. A. Simond. il diags Textile World 91:110 D '41; 92:100-1 Ja; 131 F; 109-10 Mr; 98 Ap; 95-6 My; 90-1 Je; 79-80 Jl; 104 Ag '42

HOSIERY mills

Air conditioning

Balanced air conditioning essential for quality fabric production. il Rayon 23:355-7 Je '42

Employees

Union-management cooperation in full-fashioned hosiery industry; wage concessions to unionized employers in return for commitments for purchase of new machinery. F. Joiner. Monthly Labor R 53:1180-5 N '41

Equipment

Union-management cooperation in full-fashioned hosiery industry; wage concessions to unionized employers in return for commitments for purchase of new machinery. F. Joiner. Monthly Labor R 53:1180-5 N '41

See also

Hosiery machines

Management

Interdepartmental cooperation. N. D. White. Rayon 22:676-8 N '41

Stock and production policies in full-fashioned hosiery manufacture. G. W. Taylor and G. A. Dash, jr. 35p pa 50c Textile foundation, Washington, D.C. '41

HOSIERY trade

Annual hosiery conference, 6th, New York, Jan. 15-16. Textile World 92:98-9 F '42; Rayon 23:66-7 F '42

Effect of the silk freezing order on women's full fashioned and seamless production. Rayon 23:223 Ap '42

Group coordination, a real solution; five hosiery mills pool experience. Textile World 92:66-7 Ag '42

Hosiery woes; nylon supply may be commandeered. Business Week p40+ F 7 '42

Hosiery's new era. Business Week p42+ Jl 11 '42

Rayon hose no. 1 job is education. J. Black. il Textile World 92:80-1 S '42

Research possibilities in the hosiery industries. A. Pollard. Am Dyestuff Rep 31:274 My 25 '42

Silk's hosiery role ended Jan. 1; amount of rayon needed to equal pound of silk. E. Constantine. Textile World 92:69 Ja '42

Transition from silk to rayon hosiery. E. Constantine. Rayon 23:186-7 Ap '42

Statistics

Complete 1941 hosiery shipments. Rayon 23:221 Ap '42

Less leg lure. Business Week p64 N 7 '42

Per cent of women's full-fashioned hosiery by fiber, 1940-1941. Rayon 23:187+ Ap '42

Canada

Canadian hosiery. Business Week p66-7 N 22 '41

HOSPITAL liability insurance. See Insurance, Hospital liability

HOSPITALIZATION insurance. See Insurance, Hospitalization

HOSPITALS

Air raid warden learns the hard way; blackout problem, Peterborough hospital. A. H. Parker. Power Pl Eng 46:110-11 My '42

Hospital management of industrial cases. S. P. Rogers. Ind Med 11:203-7; Discussion. E. C. Holmblad. 207 My '42

Protecting old hospital services big problem in new construction; Delaware hospital, Wilmington. il plan Eng N 127:686-7 N 13 '41

Transactions of the American hospital association, forty-third annual convention, Atlantic City, New Jersey, Sept. 15-19, 1941. 751p Am. hospital assn, 18-20 E. Division st, Chicago '41

What can the hospital do about noise? C. F. Neergaard. Acoustical Soc Am J 13:217-19 Ja '42

See also

Children—Hospitals

Clinics

New York (city)—Hospitals

Air conditioning

Humidity control for ether fumes. Heat & Ven 39:55 S '42

Designs and plans

America's building need for health. il diags plans Arch Rec 90:49-56 D '41

Building types; hospitals in time of war; with time-saver standards. R. W. Sherman. il plans Arch Rec 92:51-68 Ag '42

New plan to raise hospital efficiency. C. F. Neergaard. il plans Arch Rec 91:53-4 Mr '42; Reply. I. Rosenfield. 91:20+ Je '42

Directories

Directory of non-profit hospital service plans approved by the American hospital association. 157p pa $1 Hospital service plan commission, Am. hospital assn, Chicago '41

Electric equipment

American installation practice; equipment of a Red Cross field hospital unit in England. il Elec R (Lond) 130:19-21 Ja 2 '42

Applications of electricity in hospitals; abstracts. C. M. Davies. Electrician 128:425 My 1 '42; Elec R (Lond) 130:561 My 1 '42

Hospital equipped for war on the Pacific; electric facilities, Shaughnessy military hospital at Vancouver. il Elec West 89:62-3 Ag '42

Employees

Arrested tuberculosis and hospital employment. L. Brahdy. bibliog J Ind Hygiene 24:53-8 Mr '42

HOSPITALS—*Continued*

Equipment

Contracts commanding priorities; installation details, forced draft duct, insulation and covering of smokestack breechings; Kings Park state hospital. il diags Sheet Metal Worker 32:28-30 D '41

Conversion job, home to hospital. il Dom Eng 158:50+ D '41

Steam requirements of hospital equipment; data sheet. Heating-Piping 14:676 N '42

Heating and ventilation

Ventilating a hospital. P. R. Jordan. diag Sheet Metal Worker 33:25-6 Mr '42

Lighting

Lighting of hospital wards. J. B. Harris. Electrician 128:529 My 29 '42

Wartime lighting. C. E. Ferree and G. Rand. diag Personnel J 21:73-7 Je '42; Same. Illum Eng 37:584-7 N '42

Management

Manual for medical records librarians. E. K. Huffman. 308p $3 Physicians' record co, 161 W. Harrison st, Chicago '41

New York institute for hospital administrators. Science 94:432 N 7 '41

Power

Electric boiler plant; Royal Hobart hospital, Tasmania. il Elec R (Lond) 129:697 D 19 '41

New boiler and turbine for St Mary's hospital. J. H. Herzog. il diag Power 86:581-2 Ag '42

Protection

A.R.P. in hospitals. il diags Arch Forum 77:49-56 Jl '42

Staff

Period of internships in New York city; recruitment of medical officers. Science 95:92 Ja 23 '42

Statistics

Frequency and volume of hospital care for specific diseases in relation to all illnesses among 9,000 families, based on nation-wide periodic canvasses, 1928-31. S. D. Collins. Pub Health Rep 57:1399-1428, 1439-60 bibliog (p1459-60) S 18-25 '42

Hospital discharge study. N. R. Deardorff and M. Fraenkel. v 1 209p bibliog(p196-204) $1 Welfare council of New York city, 44 E. 23d st, New York '42

Hospital service in the United States, 1942; twenty-first presentation of hospital statistics by the Council on medical education and hospitals. p1053-1144 pa 75c Am. medical assn, 535 N. Dearborn st, Chicago '42

Importance of hospital morbidity data for the community. M. Fraenkel. Am Statis Assn J 37:213-19 Je '42

England

Accident hospital; Birmingham accident hospital and rehabilitation centre. Economist 142:320 Mr 7 '42

HOSPITALS, Emergency

Accident hospital; Birmingham accident hospital and rehabilitation centre. Economist 142:320 Mr 7 '42

Civilian defense; emergency hospitals. il Arch Forum 76:64 Ja '42

Emergency base hospitals; affiliated staff units to serve when needed. Science 96: 330-1 O 9 '42

Emergency hospitals for the U.S. Navy. il diags plans Arch Rec 92:59-60 Ag '42

Pavilion hospitals for wartime use; suggested by the U.S. Public health service as emergency units. il plans Arch Rec 92:61-2 Ag '42

War-emergency hospital data; with timesaver standards. plans Arch Rec 92:63-8 Ag '42

HOSPITALS, Industrial

Industrial hospital building for Carnegie-Illinois steel corp. il plans Arch Rec 90: 52 D '41

HOSPITALS, Military

Fifth general hospital (Harvard university unit), U.S. army. E. C. Cutler. Science 95:163-4 F 13 '42

Hospital equipped for war on the Pacific; electric facilities, Shaughnessy military hospital at Vancouver. il Elec West 89:62-3 Ag '42

Louisiana state university unit of the Military general hospital. Science 96:131 Ag 7 '42

Projected construction; types of housing suitable for use in semitropical areas. il plans Arch Forum 77:41 Jl '42

Yale unit, U.S. military hospital. Science 96: 79-80 Jl 24 '42

HOSPITALS, Naval and marine

Architectural concrete on the new Naval medical center. H. C. Fischer. il diags plans Am Concrete Inst J 13:289-311 F '42

Emergency hospitals for the U.S. Navy. il diags plans Arch Rec 92:59-60 Ag '42

Modern hospital at Charleston navy yard is all-concrete construction. il Concrete 50:6 S '42

Precast slabs for new hospital; naval medical center, Bethesda, Md. il Arch Rec 91:57 Mr '42

Story of the National leprosarium (U.S. marine hospital), Carville, La. G. H. Faget. bibliog Pub Health Rep 57:641-52, pl 1-2 My 1 '42

HOSPITALS, Psychiatric

Asylums; some mental hospitals are disgrace; charge made by National committee for mental hygiene. Sci Am 166:11 Ja '42

Study of the public mental hospitals of the United States, 1937-39. S. W. Hamilton and others. (Public health rep supp 164) 126p bibliog(121-3) U.S. Public health service, Washington; 20c Supt. of doc. '41

Treatment building; Baldpate inc. sanitarium, Georgetown, Mass. il diags plan Arch Rec 90:54-5 D '41

HOT dip galvanizers association, American. See American hot dip galvanizers association

HOT plates

Enclosed hotplate; patent. diag Gas J (Lond) 238:278 My 20 '42

HOT plates, Electric

Sesame boiling plate. il Electrician 129:418-19 O 16 '42; Elec R (Lond) 131:503 O 16 '42

HOT springs

Iceland's district heating system uses water from hot springs. il Heat & Ven 38:48-9 N '41

HOT water heating

Code for pressure piping; district heating piping systems. G. K. Saurwein. il Heating-Piping 14:215-17 Ap '42

Ford's Willow Run bomber plant; heating and air conditioning. G. S. Whittaker. il Heat & Ven 39:25-33 O '42

Gas service manual; hot-water system. W. L. Riehl. diags Gas Age 89:29-30 F 12 '42

Heat-output measurement in hot-water systems. F. M. H. Taylor. Engineering 153: 127 F 13 '42

Hot water heating; abstract. R. E. Hattis. Heat & Ven 39:118 Ja '42

Iceland's district heating system uses water from hot springs. il Heat & Ven 38:48-9 N '41

I'm having trouble with a transfer heater; problem analyzed. S. R. Lewis. diags Heating-Piping 14:479-80 Ag '42

Industrial tape corp. heats its new building with high temperature hot water district heating system. J. F. Kern, jr. il Heat & Ven 39:108-12 Ja '42

Mass heating installations for mass housing; pre-assembling of plumbing and heating piping in housing project. il plan Dom Eng 158:58-60+ D '41

Modernized heating system for enlarged factory keeps the operating cost down. il Heating-Piping 14:100 F '42

New developments in steam and water heating systems. R. E. Ferry. In Ill U Eng Exp Sta Circ 43:100-12 '42

HOT water heating—*Continued*

Orchids in Oklahoma; greenhouse heating with gas. W. J. Douvall. il diags Gas Age 90:57-8 O 8 '42

Performance of a hot-water heating system in the research home. A. P. Kratz and others. il diags plans Heating-Piping 13: 766-73 D '41; Discussion. 14:262-4 Ap '42

Products in action; manufacturer of heating equipment installs various types in factory and office. il diags plans Dom Eng 159:42-5 F '42

Radiator sizing and changes. T. W. Reynolds. Heat & Ven 39:34 Je '42

Should the heating system be drained? A. J. Lubeley. Power Pl Eng 46:100 S '42

South Bay consolidated water co., Bayport, L.I. uses electric heat with cast iron radiators to heat pumping station. il Heat & Ven 39:40 My '42; Same. Gen Elec R 45:301 My '42

Ventilaire system on Alcoa ships. diags plans Marine Eng 46:83-5+ D '41

Control

Heat economy and comfort in hotels. P. L. Geiringer. Power Pl Eng 46:80-2 O '42

Panel system

Floor coils heat auditorium of new Community church; air conditioning system. il Heating-Piping 14:223-5 Ap '42

Panel heating, new addition to high school; Clover Park high school, Wash. E. L. Weber. il diags Heating-Piping 14:159-60 Mr '42

Tables, calculations, etc.

Comparative study of friction-heads in screwed and welded elbows. F. E. Giesecke and J. S. Hopper. il diags Heating-Piping 14:56-60 Ja '42

HOT water supply

Diesel waste heat; jacket water used to heat water for plant use. diags Power 86:349-51 Ap '42

Metallic contamination of hot water from cylinders of bare and tinned copper; abstract. L. Wilkinson and S. H. Wilson. Am Water Works Assn J 34:1284-5 Ag '42

16 steps in sizing piping for cold and hot water supply. charts Heat & Ven 39:54-61 F '42

Thermostatically-controlled washing equipment. Engineering 152:366 N 7 '41

Year 'round hot water from your heating plant. J. F. Droge. Am Gas J 156:21-2 Ja '42

See also

Electric water heaters

Gas water heaters

Steam water heaters

Cost

Domestic water heating; requirements for various income groups; electricity, gas and other fuels. L. Friedman. Gas J (Lond) 236:350-2, 355+ D 3 '41; Discussion. F. Brooks. 236:422+ D 17 '41

Domestic water heating—second thoughts. L. Friedman. bibliog Gas J (Lond) 237: 94, 97 Ja 21 '42

HOT water tanks

Porcelain enamel as a protective coating for hot-water tanks. D. R. Goetchius. bibliog Am Cer Soc J 25:164-8 Mr 15 '42

Porcelain enamel hot water tanks. il Welding J 21:21-2 Ja '42

Welded tank enameled inside and out. il diag Product Eng 13:10 Ja '42

HOT weather

Hot weather hazards. Safety Eng 84:30 Jl '42

HOTBEDS, Electric

Electro-horticulture. E. Hardy. Electrician 129:240 S 4 '42

Electro-horticulture; particulars of two successful installations in Australia. Electrician 128:184 Mr 6 '42

Hotbeds heated by lamps win favor. R. L. Zahour. il Elec W 117:532+ F 7 '42

Plant incubator new aid for growers; John S. Martin's invention utilizes electrically controlled heat and moisture. K. Hood. il Elec West 88:64 My '42

HOTELS

Hotel-keepers, this is the law. R. S. W. Pollard and G. B. Erskine. 203p 5s J. Crowther, London '41

Hotel Statler, Washington, D.C. il diags plan Arch Rec 92:14, 16 Ag '42

Hotels show gain. Business Week p30-1 Je 13 '42

See also

Restaurants

also subdivision Hotels under names of cities, e.g. Miami Beach—Hotels

Advertising

Resorts and hotels sing a new tune. il Ptr Ink 200:18-19 Jl 10 '42

Air conditioning

How a hotel chain maintains its air conditioning systems; methyl chloride substituted for Freon in some cases. H. W. Genone. Heating-Piping 14:345-6 Je '42

Designs and plans

Freiderica hotel, Little Rock, Ark.; views, plans and construction outline. Arch Forum 76:378-82 Je '42

Hotel for a war-industry community, Freeport, Texas. il plan Arch Rec 91:56 My '42

Two Washington, D.C. hotels. il plans Arch Forum 77:60-3 Ag '42

Directories

Florida hotel and travel guide. L. More, ed. 575p pa $1 Florida guide co, New York '42

Employees

Boss union nicked; San Francisco hotel owned by outsider signs up with A.F.L. unions. il Business Week p18+ N 15 '41

Hotel men fight strike with advertising technique learned from farm groups. J. E. Pickett. Ptr Ink 198:17+ F 6 '42

Heating and ventilation

Heat economy and comfort in hotels. P. L. Geiringer. Power Pl Eng 46:80-2 O '42

Insurance requirements

Hotel men intimate drastic rate action. Nat Underw 46:18 O 8 '42

Warns hotels of increasing values. E. L. McManus. East Underw 43:24 Ja 9 '42

Law

Hotelkeeper's liability distinguished from landlord's liability; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8: 26-8 Jl 23 '42

Power

Diesel installation with novel engineering features; Hotel Bradford, New York. N. Schafler. il Diesel Power 20:723-6 S '42

Remodeling

George Washington hotel, St Louis, remodeled into an asset; view and plans. Arch Rec 91:42-3 F '42

Roof remodeled around existing structure; Sky room, El Cortez hotel, San Francisco. il plan Arch Rec 91:75-6 F '42

St Louis hotel remodels roof bar and dining space; Chase Hotel cocktail lounge and Starlight roof. il diags plan Arch Rec 91: 72-4 F '42

Two baths where one was before; Indiana hotel remodeled to double bathroom efficiency. il Am Bld 64:47 My '42

Securities

Inflation hedge; hotel securities show market strength. Comm & Fin Chr 156:972 S 17 '42

Service

Hotel builds tourist trade with service in a package; Stevens, Chicago. il Ptr Ink 197:43, 46 N 21 '41

HOTELS—*Continued*

Statistics

Hotel operations in 1941; operating ratios of 100 hotels located in 50 cities. 32p Horwath & Horwath, New York '42

HOUDAILLE-HERSHEY corporation

Sales, war contracts. Comm & Fin Chr 156: 1327 O 12 '42

Shares selling below net cash assets. Barron's 22:20 Ja 26 '42

HOUDRY, Eugene J. 1892-

Discoverer of Houdry butadiene process. por Nat Pet N 34:2 S 9 '42

HOUDRY process

Adaptation of the Houdry process provides continuous cracking; Thermofor process. il Nat Pet N 34 pt2:R210 Jl 29 '42

Catalyst revived continuously to improve war-product yields; modifying Houdry catalytic cracking procedure. J. P. O'Donnell. il Oil & Gas J 41:44-5 Je 4 '42

Cycle timers on Houdry unit control board show how catalyst cases are functioning. il Nat Pet N 34 pt 2:R315 S 30 '42

Developments in the synthetic rubber situation. Rubber Age 51:408-9 Ag '42

Houdry claims faster and less costly process for butadiene. il Oil & Gas J 41:24-5 Jl 16 '42

Houdry opens attack on butadiene program. Nat Pet N 34:3-4, 14-19 Jl 15 '42

Houdry process; campaign to have War production board adopt process of producing butadiene from petroleum. Rubber Age 51: 315-16 Jl '42

Houdry process described; abstract. C. H. Thayer. India Rubber W 106:591 S '42

Houdry quick butadiene process runs on assembled equipment. flow diag Nat Pet N 34 pt 2:R249 Ag 26 '42

Houdry two-stage dehydrogenation catalytic process for manufacture of butadiene. C. H. Thayer, R. C. Lassiat and E. R. Lederer. il Nat Pet N 34 pt 2:R305-6 S 30 '42; Same. Automotive & Aviation Ind 87:30-2 O 15 '42; Same. Pet Eng 14:29-30 O '42; Same. Rubber Age 52:39-41 O '42; Same. Chem & Met Eng 49:116-17 N '42; Same. Mech Eng 64:777-8 N '42

Make butadiene by catalytic dehydrogenation of butane. W. T. Ziegenhain. diags Oil & Gas J 41:30-1 Ag 20 '42

WPB studies Houdry process for manufacturing butadiene. Nat Pet N 34:16 Jl 8 '42

HOUGHTON, Amory, 1899-

Industrial control up to Houghton. por Business Week p7 Ag 15 '42

HOURS of business. See Banks and banking—Hours of business; Gasoline service stations—Hours of business; Retail trade—Hours of business; Staggered hours

HOURS of labor

Bases of worker efficiency. H. M. L. Murray. Personnel J 21:131-45 O '42

Chilean Congress has established the single-shift working day. For Comm W 8:15-16 Jl 4 '42

52-hour week as minimum in British industry. Monthly Labor R 55:42 Jl '42

48-hr. week urged by government for war work. Comm & Fin Chr 156:364 Jl 30 '42

Forty-hour week; average weekly hours in manufacturing industries, Aug. 1942. Nat City Bank p124 N '42

FDR calls for longer hours for defense. Comm & Fin Chr 154:1235 N 27 '41

Hours of work and lost time in Great Britain. Monthly Labor R 54:1400-3 Je '42

How to increase war production; lessons from an English government report. C. S. Slocombe. Personnel J 20:194-204 D '41

Investigations of labor time losses; report of Britain's Industrial health research board. Aero Digest 40:136+ My '42

Labor views the working day. S. Barkin. Advanced Management 7:32-7 Ja-Mr '42

Length of the workweek in France. H. F. Matthews. Monthly Labor R 54:212-13 Ja '42

Lengthened hours of employment for women and youth in Great Britain. Monthly Labor R 54:1331-2 Je '42

Lost work days; British experience as guide on effect of long hours. Business Week p58-60 D 27 '41

Optimum hours of work in war production. J. D. Brown and H. Baker. 25p bibliog(p23-5) pa 75c Industrial relations section, Dept. of economics and social institutions, Princeton univ, Princeton, N.J. '42; Conclusions. Trusts & Estates 74:361 Ap '42; Management R 31:170-1 My '42; Monthly Labor R 54:1099-1100 My '42

Recommended optimum hours for maximum production. Monthly Labor R 55:459-60 S '42

Salaries and hours of labor in municipal police departments, July 1, 1938; v 3, East north central cities. U S Bur Labor Statistics Bul 685:1-53; pa 10c Supt. of doc. '41

Salaries and hours of labor in municipal police departments, July 1, 1938; v 7, West south central cities. U S Bur Labor Statistics Bul 685:1-24; pa 10c Supt. of doc. '41

Shorter workweek in department stores; abstract. G. R. Rowe. Management R 30:415-16 N '41

Time and output. Economist 142:218 F 14 '42

Wages, hours of work, and holidays in the United States. Int Labour R 45:682-6 Je '42

Wartime conditions of employment of women and young persons in Great Britain. Int Labour R 46:83-5 Jl '42

Wartime hours of work and their effects in Great Britain. Int Labour R 45:687-90 Je '42

Wartime hours of work in the United States. Int Labour R 45:568-70 My '42

Work week above 40 hours in most plants. Comm & Fin Chr 155:1626 Ap 23 '42

Working hours in war production plants, February 1942. H. F. Houghton. Monthly Labor R 54:1061-5 My '42

See also

Overtime
Part time employment
Rest days
Staggered hours
Woman—Employment

Eight-hour day

Eight-hour day. M. Van de Water. Science 95:sup12 Mr 6 '42

Federal 8-hour law held to supersede wage and hour act. Monthly Labor R 54:1359 Je '42

Five-day week

Stores go on a five-day week. D. K. Beckley. Personnel J 21:171-4 N '42

Law

Definition of hours worked in underground mines; the Montana Supreme court. Monthly Labor R 54:452-3 F '42

Hours of work in French mines and quarries. Monthly Labor R 53:1287 N '41

Nelson opposes double time pay rates giving views on the war labor laws. Comm & Fin Chr 155:1261 Mr 26 '42

Regulation of hours of work in France. bibliog Int Labour R 46:420-32 O '42

Wage-hour split workweek rule upheld. Monthly Labor R 54:454 F '42

Shift schedules

All-out operation; Monarch's 3-shift program. Business Week p85-6 Jl 25 '42

Arranging equitable work schedules; practices of five companies. Factory Management 100:82-3 Ag '42

Eliminating the week-end blackout of industrial plants; schedule for 168 hour week. Heating-Piping 14:37-8 Ja '42

Employers comment on work schedules. Steel 110:70 Ap 6 '42

Foreman's chart solves week-end absentee problem; alternating swing shift plan; Ohio crankshaft co. Steel 111:65 Ag 10 '42

How to operate seven days per week. E. Caldwell. Iron Age 148:47-51 D 25 '41

HOURS of labor—Shift schedules—*Continued*

Man-hours worked per week of straight-time in each shift and of overtime in all shifts; chart. Survey of Cur Business 22:2 Ja '42

Management tackles the night shift problem. J. K. Westerfield. Am Business 12: 18-20 F '42; Abstract. Management R 31: 241-2 Jl '42

Multiple shifts sharply increase output. il Am Mach 85:1209-11 N 26 '41

Planning for three shifts, seven days a week. Mach 48:124 F '42

'Round the clock; more and more companies take up 168-hour week, and here are some schedules on how to stagger crews. il Business Week p61-5 Ja 10 '42

Round-the-clock schedules; new proposal for timing shifts. Factory Management 100:88-9 N '42

Scheduling maintenance for three-shift operation. Factory Management 100:133 O '42

Shift practice in war industry. 20p Nat. ind. conf. bd. '42

Shift schedules for 168-hour operation; Spence engineering company. Factory Management 100:72 My '42

Sundayless week; West Coast shipyards. Business Week p65 Ja 31 '42

Sunset, night and dawn shifts for 'round-the-clock production. N. Kleitman. Steel 111:72 Jl 13 '42

Survey of multiple shift operations. J. Foster, jr. il Aviation 41:138-9+ Jl '42

Three-shift schedule of operation. G. Timms and R. Shrider. Am Mach 86:1229 O 29 '42

Time out for meals only; Monarch machine tool company goes on 3 shift schedule. il Am Mach 86:641-3 Je 25 '42

Twenty-four hour schedule; hygienic aspects. T. Parran. Safety Eng 83:42 F '42; Same. Management R 31:49-50 F '42

Two 168-hour schedules. Factory Management 100:49 Ap '42

Utilization of plant facilities under national defense program. M. Levine and V. W. Casey. Monthly Labor R 53:1140-7 N '41

What industry is doing about the seven-day week. Factory Management 100:56C-56F Ja '42

Work-week plan for chemical industry. R. R. Lyman and D. F. Othmer. il Chem & Met Eng 49:86-7 Ja '42; Same. Factory Management 100:73+ Mr '42

Workable plan for 24-hour a day, 7-day a week production. Brick & Clay Rec 100:37 Ja '42

See also
Night work

Six-hour day

Death of an era; abolition of six-hour day ends depression in Akron. Business Week p18 O 10 '42

Peace in Akron? eight-hour day instead of six. Business Week p24 S 12 '42

Six-hour day fight. Business Week p76 Ag 8 '42

Statistics

Comparative earnings and hours of women and men, October 1940. Monthly Labor R 53:1177-9 N '41

Earnings and hours in manufacture of cigarettes, chewing and smoking tobacco, and snuff, December 1940. T. P. Henson. Monthly Labor R 54:184-209 Ja '42

Earnings and hours in rice mills, 1941. B. L. Smith. Monthly Labor R 53:1274-87 N '41

Earnings in the construction-machinery industry. H. R. Hosea and others. Monthly Labor R 55:117-23 Jl '42

Hours and earnings in the cigar industry, 1940. P. L. Jones, M. Gresham and J. Laciskey. Monthly Labor R 53:1514-37 D '41

Hours and earnings in the United States, 1932-40, with supplement for 1941. A. Olenin and T. F. Corcoran. diags U S Bur Labor Statistics Bul 697:1-207; pa 25c Supt. of doc. '42

Statistics of hours of work in industry in various countries, yearly 1929-1940 and quarterly March 1940-December 1941. Int Labour R 45:359-61 Mr '42 [cont quarterly]

Union wages and hours in the printing trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1538-67 D '41; Correction. 54:759-60 Mr '42; Reprint, with additional data. U S Bur Labor Statistics Bul 708:1-81; pa 15c Supt. of doc. '42

Wage and hour statistics. Published in Monthly labor review

Wages and hours of union motortruck drivers and helpers, June 1, 1941. K. B. Mohn. Monthly Labor R 54:487-95 F '42

Wages and normal hours of work of adult males in certain occupations in various countries in October 1940. Int Labour R 44:470-88 O '41

Wages and normal hours of work of adult males in certain occupations in various countries in October 1941. Int Labour R 46:638-53 N '42

Work hours increase after Pearl Harbor; December wage and hour statistics. Comm & Fin Chr 155:666 F 12 '42

Workers' hours up 20% in industry in year. Comm & Fin Chr 155:1720 Ap 30 '42

Working hours in U.S. war plants, Feb. 1942; tabulation. Iron Age 149:103 My 7 '42

HOUSE beautiful (periodical)

Glorifying shelter; home magazines' successes in popular field. Business Week p88-90 D 6 '41

HOUSE decoration

Art in home and dress. M. B. Trilling and F. Williams. 527p bibliog(p516-23) $2.20 Lippincott '42

Beauty treatments for the home; the smart way to make draperies, slip covers, lamp shades, accessories. K. Hardy. 198p bibliog (p191) $3 Funk & Wagnalls co, New York '42

Book of furniture and decoration: period and modern. J. Aronson. 6th ed rev & enl 356p bibliog(p348-9) $2.75 Crown publishers, New York '41

Design of modern interiors. J. Ford and K. M. Ford. 130p $5 Architectural book pub. co, 112 W. 46th st, New York '42

Goodby Mr Chippendale; contemporary designers use the materials of today to design for the living. il Fortune 25:56-63 Ja '42

House & garden's complete guide to interior decoration. R. Wright, ed. 304p $5 Simon & Schuster '42

How to be your own decorator. H. Koues. new rev ed 148p Tudor pub. co, New York '41

101 home furnishings and how to make them. L. Wakefield. 98p $2.50 Harper '42

Practical home decorating. E. Lee. 64p pa $1 House of little books, New York '41

Prize-winning interiors for war houses. il plans Arch Forum 76:sup12 My '42

See also
Furniture
Interior decoration
Recreation rooms

HOUSE lighting

Residence blackout methods and materials. E. W. Commery, H. G. McKinlay and M. E. Webber. il diags Illum Eng 37:491-518 S '42; Same. Edison Elec Inst Bul 10:371-81+ O '42

Bibliography

Current articles on lighting. Published in monthly numbers of Illuminating engineering

HOUSE organs

Another inspiring business story from England: how house magazines fight economic war. F. R. Groves. Ptr Ink 197:37, 40, 42-3 N 14 '41

Entirely new variety of reader poll: 80.78% majority shows war makes house magazines more helpful; Monsanto chemical co. Ptr Ink 199:13+ Je 19 '42

HOUSE organs—*Continued*

Gypsum house organs in publications do educational job; builders and architects shown how extensive line of USG products may be used to achieve desired results. H. O. Hayes. il Ind Marketing 27:20-1 Jl '42

House magazine may be cheer leader for industry. W. A. Peterson. il Ptr Ink 200: 46-7 Jl 3 '42

House organ as specialty salesman; Grime detector. Ptr Ink 198:50 F 20 '42

House organs blossom out like flowers in spring. il Ind Marketing 27:52, 56 My '42

Shop bulletin increases manufacturing efficiency. J. Manuele. Am Mach 86:1062 S 17 '42

Weekly house magazine has only two pages—; Daily news about the blues. Ptr Ink 197:47-9 D 26 '41

See also

Employees' magazines

HOUSE organs, Cooperative

House magazines solve wartime problem for industrial suppliers; eight manufacturers cooperate with nine engineering organizations. F. I. Lackens. il Ptr Ink 198:28, 32+ F 6 '42

HOUSE organs, Employees'. See Employees' magazines

HOUSE painting

Painting metalwork. Consumers' Research Bul 9:20-3 D '41

HOUSE-to-house selling. See Canvassing

HOUSEHOLD budget. See Budget, Household

HOUSEHOLD employees. See Servants

HOUSEHOLD finance corporation

Consolidated income account for calendar years, 1938-1941. Comm & Fin Chr 155:638 F 10 '42

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 1 '41

Outlook for 1942, &c. Comm & Fin Chr 155: 190 Ja 13 '42

Personal finance loans turn down. Barron's 22:1 Jl 20 '42

HOUSEHOLD pests

Insect pests. W. C. Harvey and H. Hill. 292p $4.25 Chemical pub. co. '41

What the housewife thinks about insect sprays. C. A. Murray. Soap & San Chem 18:89-91+ S; 95, 97, 99+ O '42

HOUSEHOLD products

Gadgets for 194x. il diags plans Arch Forum 77:112-13 S '42

HOUSEHOLD products industries

Washer, ironer output cut. Comm & Fin Chr 154:1233 N 27 '41

See also

Washing machines

HOUSER, T. V.

Portrait. Fortune 26:81 S '42

HOUSES

Can women build better homes? Mrs Pauline Heidelberger, builder. il plans Am Bld 64: 50-2+ F '42

First aid for the ailing house. R. B. Whitman. 3d rev ed 359p $2.50 McGraw-Hill '42

Five rooms and lot at $5,200; average house in a sampling of 160,000; FHA experience. Arch Forum 75:416-17 D '41

Five ways to put punch in war home design; Norfolk, Va. Victory home jobs. il plans Am Bld 64:46-7 O '42

Gadgets for 194x. il diags plans Arch Forum 77:112-13 S '42

Gas heating research house erected at Los Angeles, Calif. F. A. Herr. il plan Am Gas J 156:25-6 My '42

Good house upkeeping. M. L. Colean. Banking 34:32+ D '41

Home repair and maintenance. bibliog il diags Consumers' Research Bul 9:15-19, 24 D '41; 10-14+ Ja '42

Homes can be built to avoid critical list shortages; extensible house. Am Bld 63:39+ D '41

House construction details. N. L. Burbank. 2d ed 313p $3 Simmons-Boardman '42

Houses of wood; designs and plans. il diags plans Arch Rec 91:49-60 Ja '42

Houses without priorities; case for the over-$6000 house. il diags plans map Arch Forum 75:383-92 D '41

Livable 5-room Texas design that conserves time, labor, materials. il diag plan Am Bld 64:55 Ja '42

New house 194x; with 33 projected designs. il diags plans Arch Forum 77:65-152 S '42

Presenting an extensible house; small home to provide good, needed shelter while conserving critical materials. R. E. Sangster. il plans Am Bld 63:44-5 D '41

Purdue research offers a low cost house, using non-critical material. il plans Am Bld 64:42-3 Ag '42

Rammed earth offers housing solution. il Eng N 129:600-1 O 29 '42

Roof over your head; what can the home buyer and renter expect? G. Schaefer. 66p George Schaefer, jr, 73 Edgemont road, Scarsdale, New York '41

Sense and shelter; house building problems. A. G. Dietz. il Tech R 44:266-7+ Ap '42

Shops on wheels speed Tobin's defense homes. R. B. Konikow. il plans Am Bld 64: 56-8+ F '42

Trends in home building practice. diags Am Bld 64:41-3 Ja '42

See also

Apartment houses
Architecture, Domestic
Brick houses
Concrete houses
Cottages
Country houses
Dormitories
Farmhouses
Home ownership
House lighting
Housing
Steel houses
Week-end houses

HOUSES, Brick. See Brick houses

HOUSES, Concrete. See Concrete houses

HOUSES, Demountable

Demountable defense house; American houses, inc.; planned to prove defense housing standards wastefully high. il diags plans Arch Forum 76:156-60 Mr '42

Demountable houses moved for $500. Eng N 127:801 D 4 '41

Demountable housing for defense workers; Tennessee Valley Authority portable dormitories and recreation building. il diags plan Am Bld 64:76-7 Mr '42

Demountable housing industry to build 42,000 defense homes for FWA. plans Arch Rec 91:24 F '42

50 permanent, 50 demountable houses, Benicia, Calif.; views, plans, and construction outline. Arch Forum 76:342-3 My '42

5,000 houses in 5 months; pre-fabricated and partly pre-assembled demountable houses. il plan Eng N 129:212-17 Ag 13 '42

Half demountable house program placed; table giving firm, number of units, location, and cost. il Am Bld 64:82 Mr '42

More demountable houses authorized by Federal works agency. Am Bld 64:72 F '42

Prefabricated, demountable house; house on pintels. il diags plan Arch Forum 77:84-6 S '42

600 demountable units, rental; Beaumont, Texas; with views, plans and construction outline. Arch Forum 76:285-91 My '42

Structural panels build quick homes for war workers. B. L. Johnson. il diags plans Am Bld 64:40-3+ S '42

Will a demountable house demount? I. F. Laucks. Am Bld 64:22 O '42

HOUSES, Model

Bridgeport, Conn. House of ideas built by General electric company in cooperation with local department store; views, plans and construction outline. Arch Forum 75: 314-16 N '41

Extensibility found in Detroit homes. il plans Am Bld 63:46-7 D '41

No priority limit on smart ideas; large small house of ideas; Southport, Connecticut. il plans Am Bld 63:48-51+ D '41

Victory home inspires Cleveland's home and flower visitors. il plan Am Bld 64:60-1 My '42

HOUSES, Portable
At home in a trailer; hauled on wheels from Michigan to North Carolina. il plans Am Bld 64:48-9 O '42
House de-2, magic carpet series. il diags plan Arch Forum 77:132-4 S '42
House, mobile utilities section in 194x. il diags plan Arch Forum 77:146-7 S '42
Housing idea on the trailer plan. il plans Arch Rec 90:77 N '41
See also
Houses, Demountable

HOUSES, Prefabricated
All metal small homes. N. W. Brownyard. il diags plan Sheet Metal Worker 32:38-40 N '41
All-welded press for steel building blocks for LeTourneau steel houses. il Engineering 152:346-7, 350 O 31 '41
Battle of the prefabs; Business Week report to executives. il Business Week p37-44 Ag 15 '42
Break for prefab; reorganization of war housing. Business Week p17-18 Ja 24 '42
Building 40 houses a day; demountable homes for defense workers near the Mare Island navy yard. il Eng N 129:132-3 Jl 23 '42
Construction; British use of Lignocrete. For Comm W 7:21 My 2 '42
Dormitories; Farm security administration program on Pacific coast. il Business Week p24 N 22 '41
FPHA jig tables for field assembly. il diags plans Arch Forum 76:199-203 Ap '42
50 permanent, 50 demountable houses, Benicia, Calif.; views, plans, and construction outline. Arch Forum 76:342-3 My '42
Fifty-six houses a day by factory fabrication; FPHA project at Portsmouth, Virginia. il plan Arch Rec 92:48-9 Jl '42
5,000 houses in 5 months; pre-fabricated and partly pre-assembled demountable houses. il plan Eng N 129:212-17 Ag 13 '42
Glass conversion; Libbey-Owens-Ford turns to making low-cost houses. Business Week p67+ Mr 7 '42
High-speed construction of Georgia home; utilizing prefabricated arc welded steel building block, or panels. il Sheet Metal Worker 32:28+ N '41
House de-2, magic carpet series. il diags plan Arch Forum 77:132-4 S '42
House of pressure-molded plastic in 194x. il diags plan Arch Forum 77:148-9 S '42
Houses for defense; private enterprise prefabricates 600 for bomber builder Glenn Martin with walls of single new material. il diag plans Arch Forum 75:321-6+ N '41
Houses off the assembly line; synthetic resin-bonded plywood and synthetic resin adhesives. il Mod Plastics 19:36-7 D '41
Housing built on the double-quick; navy housing project. G. Michelson. il plan Eng N 128:478-80 Mr 26 '42; Same. Sci Am 167:62-3 Ag '42
Line production speeds war housing. il Factory Management 100:82 F '42
Partial prefabrication. Sci Am 167:218+ N '42
Pre-fab pre-view; how mass methods were used at Vallejo, Calif. and Fort Leonard Wood, Mo. il Am Bld 64:50-1+ Ja '42
Prefabricated, demountable house; house on pintels. il diags plan Arch Forum 77:84-6 S '42
Prefabricated house of 194x. il plan Arch Forum 77:143-5 S '42
Prefabricated house program pushed into mass production; Federal works agency will award contracts. Eng N 128:73-4 Ja 15 '42
Prefabricated houses grow in number; statistics from Federal works agency. Am Bld 64:72 F '42
Prefabricated structural unit; 194x house. il diags plan Arch Forum 77:106-7 S '42
Prefabrication; basic requirements of the house of 194x. il diags plans Arch Forum 77:78-81 S '42
Prefabrication gets its chance as FWA allocates $153 million for demountable houses; with description of companies engaged in prefabrication, and a representative prefabricator. il Arch Forum 76:81-90+ F '42
Prefabrication rushes with power tools; GBH-way homes are shop-built with modern equipment in Walnut, Ill. il plan Am Bld 64:80-1+ Ap '42
Rental duplex units pre-built on site; Alabama war housing rushed in power tool equipped shop. G. H. Watson. il diags plans Am Bld 64:69-71 Je '42
Site prefabrication simplified; working drawings released by Federal public housing authority. plan Arch Rec 91:10 My '42
Ten-day houses being built for war workers in Portland, Seattle. Business Week p54-5 My 30 '42
39 prefabricated duration dormitories and 200 cabins, Vallejo, Calif.; views, plans, and construction outlines. Arch Forum 76:334-7 My '42
Wall sections for war homes built in local lumber yard, Chester, Pa. il Am Bld 64:65+ Mr '42
Wartime approach to prefabrication. diags plans Arch Forum 77:78-80 Jl '42
With nothing to sell, now, these salesmen study product and make market surveys; pre-fabricated house manufacturer; Homasote company, Trenton, N.J. F. V. Wilson, jr. Ptr Ink 198:17-18+ F 20 '42
World's biggest prefab job; 5,000-unit public job at Portsmouth, Va. il diags plan Am Bld 64:54-7+ Je '42

Insurance requirements
Insuring prefabricated houses under marine form. East Underw 43:27 Mr 20 '42

HOUSES, Remodeled
Baths are key to conversion of mansion to war housing. il plans Am Bld 64:58 O '42
Builders turn to remodeling, repairs and add-a-room drive for new volume; HOLC offices in 265 cities help speed jobs. il Am Bld 64:66-7 Mr '42
Change Civil war relic into 3 World war II units at Dayton, Ohio. il plan Am Bld 64:71+ Ap '42
Home betterments under $500 limit; three clever built-ins added to Park Ridge, Ill. research remodel house. il plans Am Bld 64:39-41 Jl '42
House in Springdale, Conn.; contemporary solution while preserving character suggested by the old house; views, plans, and construction outline. Arch Forum 75:393-5 D '41
House remodeling. M. Lapidus. il plans Arch Rec 91:38-9 F '42
Housing for war workers; First trust and deposit company of Syracuse, modernization plans. il Banking 34:56-7 Je '42
How to make 4 apartments from one old house; victory remodeling at Schenectady, N.Y. staged by FHA. il plans Am Bld 64:68-70 Ap '42
New flooring peps up an old building; USG remodel research house, Park Ridge, Illinois. il Am Bld 64:51-3 S '42
No priorities on insulation or ideas; insulating and remodeling; United States gypsum research home. il Dom Eng 160:36-7+ Jl '42
Opportunity in remodeling. il plans Dom Eng 160:50-1 O '42
Remodel research house shows how to aid war effort. il plans Am Bld 64:72-3 Ap '42
Remodeled for rental; New Orleans store building. il plans Arch Rec 92:61-2 S '42
Remodeled house, San Francisco; views, plans, and construction outline. Arch Forum 76:223-5 Ap '42
Remodeling for war housing. il plans Arch Forum 77:81-2 Jl '42
Remodeling ideas for wartime use; U.S. Gypsum remodel research house. il plans Arch Rec 91:59-66 Je '42
Remodeling of old houses into smaller family units; views and plans. Arch Forum 76:344-8 My '42
Salvage old structures; double living units, Montgomery, Ala. house remodeled into duplex apartment. il plans Am Bld 64:58 Ja '42

HOUSES, Remodeled—*Continued*

Substitute for metal in heating work; cold-air returns of sheetrock; United States gypsum co.'s remodel research house. il diag plans Sheet Metal Worker 33:23-4+ Ag '42

Use a picture window. il diags Am Bld 64: 44-5 Ag '42

What's worth salvaging today? remodeled southern mansion. il Am Bld 64:68-9 Mr '42

See also

Apartment houses, Remodeled

HOUSES, Row

Housing units; new house of 194x. il plans Arch Forum 77:104-5 S '42

Houston, Texas; San Felipe courts. il diag plans Arch Rec 91:47-50 Ap '42

Philadelphia builders rush row houses under Title VI for rent or sale. il diags plans Am Bld 64:48-51+ My '42

Row-type apartments in 194x. il plans Arch Forum 77:76-7 S '42

Title VI rental rows recommended by FHA; efficiency designs and economy layouts. il plans Am Bld 64:52-7 Mr '42

HOUSES, Steel. See Steel houses

HOUSING

Civilian defense; safe housing. diags plans Arch Forum 76:65 Ja '42

Good house upkeeping. M. L. Colean. Banking 34:32+ D '41

Housing and planning; women's conference. Electrician 128:556-7 Je 5 '42

Housing manual for Cincinnati schools. B. Marquette and E. F. Ideson. 75p bibliog (p71-3) Better housing league, Cincinnati '41

Housing policy and the building cycle. L. Grebler. R Econ Statis 24:66-74 My '42

Housing policy in wartime and reconstruction. C. M. Wright. Int Labour R 45:245-68 Mr '42

New housing era. M. L. Colean. il Banking 35:102-4 S '42; Same. Comm & Fin Chr 156: 1076+ S 24 '42; Excerpts. Bankers M 145: 350 O '42

Prefabrication; basic requirements of the house of 194x. il diags plans Arch Forum 77:78-81 S '42

Used homes in the low-cost housing market. W. K. Wittausch. J Land & Pub Util Econ 18:350-6 Ag '42

See also

Apartment houses
Architecture, Domestic
Building—Cost
City planning
Company towns
Dormitories
Housing finance
Housing laws
Housing projects
Rent
Slums

Bibliography

Annotated bibliography on housing for use in home economics education. E. L. Richie. U S Office of Educ Vocational Div Misc 2230-7:1-41 '40

Bibliography on community activities and facilities in housing projects. J. Hodson. 18p pa 25c Citizens' housing council of New York, 470 4th av, New York '42

Bibliography on housing for low-income families. E. Coit, comp. Arch Rec 91:84 Ap '42

Defense housing. 11 numb l Los Angeles public lib, Municipal reference lib, Los Angeles '41

Costs

Cost summary of selected U.S.H.A.-aided housing projects. Eng N 128:724 Ap 23 '42

Equipment and cost of proposed all-gas dwellings, as compared with present dwellings. E. Crowther. Gas J (Lond) 238:459-60 Je 17 '42

Small house costs, 1939-1941. Eng N 128:722 Ap 23 '42

Economic aspects

FHA as a factor in combatting inflation. P. M. Stoner. Bankers M 144:192-6 Mr '42

Housing economics. diags Arch Forum 77: 114-15 S '42

Finance

See Housing finance

Hygienic aspects

Appraisal technique for urban problem areas as a basis for housing policy of local governments; illustrative results from three test surveys. A. A. Twichell and A. Solow. Pub Health Rep 57:285-96 F 27 '42

Appraisal technique for urban problem areas as a basis for housing policy of local governments; use of the technique in planning remedial action for a representative problem area. A. A. Twichell, A. Emery and A. Solow. Pub Health Rep 57:485-501 Ap 3 '42

Occupancy organization

Organization of occupancy. M. J. Feldstein and L. C. Bryant. J Land & Pub Util Econ 17:460-4; 18:339-49 N '41, Ag '42

Standards

Housing standards; speculations about the postwar house. plans Arch Forum 77:138-9 S '42

Plan standards for defense housing. plans Arch Rec 90:72-6 N '41

Statistics

Building construction, 1940. U S Bur Labor Statistics Bul 693:1-140; pa 20c Supt. of doc. '41

Building in 140 metropolitan areas, first half 1941. Am Bld 64:48-9 Ja '42

Housing and the increase in population. M. H. Naigles. Monthly Labor R 54:869-80 Ap '42

Housing census: fuels used for cooking. Gas Age 90:21+ N 5 '42

Housing facts revealed by 1940 census. Am Bld 64:68 My '42

Indexes of new dwelling units provided and permit valuation of building construction; revised series, Sept. 1929-Jan. 1942. Survey of Cur Business 22:18, S-4 Mr '42

New dwelling construction in non-farm areas in 1941 largest since 1928. Comm & Fin Chr 155:25 Ja 1 '42

New dwelling units in nonfarm areas, first 9 months of 1941. Monthly Labor R 54:225-31 Ja '42

New dwelling units in nonfarm areas, first quarter of 1942; comparison with first and fourth quarter of 1941. Monthly Labor R 55:94-100 Jl '42

New dwelling units in nonfarm areas, first half of 1942. G. Schumm. Monthly Labor R 55:606-12 S '42

New dwelling units in nonfarm areas, 1940 and 1941. S. Jaffe. Monthly Labor R 54: 1139-48 My '42

New dwelling units in selected defense areas, 1940 and 1941. Monthly Labor R 54:1149-53 My '42

War and the building outlook for 1942. Am Bld 64:36-40 Ja '42

See also

Housing surveys

Albany, Georgia

100 permanent units; built for army personnel; views, plans, and construction outline. Arch Forum 76:338-9 My '42

Baltimore

300 permanent units, Armistead Gardens; views, plans, and construction outline. Arch Forum 76:304-5 My '42

Beaumont, Texas

600 demountable units, rental; with views, plans and construction outline. Arch Forum 76:285-91 My '42

Benicia, California

50 permanent, 50 demountable houses; views, plans, and construction outline. Arch Forum 76:342-3 My '42

HOUSING—*Continued*

Birmingham, England

When we build again; a study based on research into conditions of living and working in Birmingham. 138p 8s 6d G. Allen and Unwin, London '41

Bremerton, Washington

Houses for defense; Westpark, 840-unit government project. il plans map Arch Forum 75:409-15 D '41

Housing planned for wooded site. il plans Arch Rec 90:81 N '41

Bridgeport, Connecticut

Occupancy of old and new homes by Bridgeport war workers. A. C. Findlay. Monthly Labor R 55:206-16 Ag '42

Occupancy of privately financed houses in Bridgeport. A. C. Findlay. Monthly Labor R 54:1073-83 My '42

Buffalo

594 permanent units; views, plans, and construction outline. Arch Forum 76:324-5 My '42

Center Line, Michigan

476 permanent units; views, plans, and construction outline. Arch Forum 76:281-4 My '42

Chicago

Index of housing in Chicago. D. L. Foley. J Land & Pub Util Econ 18:209-13 My '42

Residential Chicago. 528p $2 Chicago plan commission; for sale by Municipal ref. lib., Chicago City Hall '42

Technique for delimiting Chicago's blighted areas. R. C. Klove. J Land & Pub Util Econ 17:483-4 N '41

Colombia

Low-cost housing for workers in Colombia, 1942. Monthly Labor R 54:964-7 Ap '42

Corpus Christi, Texas

200 permanent units; privately financed rental project. il plans Arch Forum 76:340-1 My '42

Danville, Illinois

Some considerations in the economic possibilities of slum clearance. S. Keyes. map J Land & Pub Util Econ 18:204-9 My '42

Detroit

Action, not words, will break the bottleneck of Detroit war housing. R. E. Sangster. il Am Bld 64:36-7+ Ag '42

Changes in population, 1940-30, and in dwelling units, 1940-38, by Detroit census tracts. S. E. Walker. 26p pa 50c Detroit bur. of governmental research, 5135 Cass av, Detroit '41

Detroit, short of housing may soon be short of bombers. il Arch Forum 76:193-7 Ap '42; Discussion. W. R. Sturgeon. 76:sup28+ My '42

Detroit zoning ordinance amended to meet war needs. Eng N 129:sup170+ O 22 '42

Ford vs. FPHA. Business Week p35 Jl 4 '42

No bomber city. Business Week p48 Ag 8 '42

Population decentralization, 1930-40, and housing, 1940, greater Detroit area. S. E. Walker, ed. 8p Detroit bur. of governmental research, 5135 Cass av, Detroit '42

WPB advocates war housing near Ford Willow Run plant. Eng N 129:321 S 3 '42

What housing for Willow Run? il Arch Rec 92:51-4 S '42

Erie, Pennsylvania

Houses for defense. il Arch Forum 75:327-9 N '41

Fort Wayne, Indiana

75 permanent units to house married officers and men; views, plans, and construction outline. Arch Forum 76:294-5 My '42

Freeport, Texas

Freeport, Texas; houses for industry. il diag plans Arch Rec 91:56-61 Ap '42

Great Britain

Electrical installations in United Kingdom's hostels. For Comm W 8:25-6 Ag 1 '42

Housing war workers; use of electricity in Ministry of supply hostels. il Elec R (Lond) 130:715-18 Je 5 '42

News from London; two examples of how architects managed to get government work. J. E. Reid. Arch Rec 91:28+ Je '42

Hawaiian Islands

Planned for economy with fine equipment; Puuloa Hale defense housing project, Oahu. il plans Arch Rec 90:78-9 N '41

Houston, Texas

84 permanent units within 42 buildings, Garden Oaks Village. il plans Arch Forum 76:292-3 My '42

Family mobility in Houston, Texas, 1922-1938. C. M. Rosenquist and W. G. Browder. 96p Univ. of Texas, Austin '42

Houston, San Felipe courts. il diag plans Arch Rec 91:47-50 Ap '42

Project center building for 1,000-unit low-cost housing project. il plans Arch Rec 91:52-3 My '42

33 permanent units; pre-war FHA development; views, plans, and construction outline. Arch Forum 76:312-13 My '42

Laconia, New Hampshire

One city's defense housing. E. H. Merrill. Banking 34:69 Mr '42

Latin America

Modernizing housing in Latin America; English and Spanish text. G. W. Hoffmann. il Rock Prod 45:77-8 My '42

Lerdo, California

85 permanent units; semidetached, one-story houses; views, plans, and construction outline. Arch Forum 76:404-5 Je '42

Los Angeles

610 permanent units; combined row-house and apartment development; views, plans, and construction outline. Arch Forum 76:402-3 Je '42

Middletown, Pennsylvania

450 permanent units; occupied by civilian workers and enlisted personnel. il plans Arch Forum 76:306-8 My '42

New Britain, Connecticut

300 permanent units; two-story row houses and flats; views, plans, and construction outline. Arch Forum 76:406-7 Je '42

New England

Building permit survey, 1939; v 1, New England cities. U S Bur Labor Statistics Bul 689:1-85; pa 15c Supt. of doc. '41

New Haven, Connecticut

500 permanent units; three-story buildings; views, plans, and construction outline. Arch Forum 76:409-12 Je '42

300 permanent units; Quinnipiac Terrace, USHA project; views, plans, and construction outline. Arch Forum 76:300-3 My '42

New York (city)

East River houses; public housing in East Harlem. 18p New York city housing authority, New York '41

Housing for low-income workers in New York city, 1941. Monthly Labor R 54:961-3 Ap '42

St Mark's neighborhood; a study of housing and general property conditions in a congested area. 43p pa 50c Community service soc, Committee on housing, New York '41

Newport, Rhode Island

Permanent housing for New England; Parkholm defense housing project. il diag plans Arch Rec 90:82-3 N '41

HOUSING—*Continued*

Newport News, Virginia

RFC; FHA collaboration; Stuart gardens. il plans Arch Rec 90:88-9 N '41

Norfolk, Virginia

Norfolk, Va.; confusion, chicanery, ineptitude. il Arch Forum 76:366-72 Je '42; Discussion. 77:18+ Jl '42

Title VI defense home boom hits Norfolk. il Am Bld 64:62-3+ Ap '42

North Braddock, Pennsylvania

200 permanent units; views, plans, and construction outline. Arch Forum 76:326-7 My '42

Oakland, California

154 permanent units; views, plans, and construction outline. Arch Forum 76:314-15 My '42

Philadelphia

Squatters' move; government bent on regaining Philadelphia houses built for workers in the last war. Business Week p20+ My 2 '42

Phoenix, Arizona

Phoenix low-cost housing development. J. Girand. il Civil Eng 12:378-80 Jl '42

Pittsburgh

250 permanent units, Stowe township, Pa. il diags plans Arch Forum 77:83-4 Jl '42

Rahway, New Jersey

Development of a park site; Rahway River Park project of the Mutual ownership defense housing division. il plans Arch Rec 90:86-7 N '41

Rock Island, Illinois

Defense claims a housing project; Arsenal courts. il plans Arch Rec 90:80 N '41

San Diego

3,000 permanent units, rental; Linda Vista. il plans Arch Forum 76:277-80 My '42

War housing: San Diego. il map plans Arch Forum 76:272-80 My '42

San Francisco

War housing; 772 permanent units originally intended for non-defense housing; views, plans, and construction outline. Arch Forum 76:399-401 Je '42

Seattle, Washington

War needs; housing. il plans Arch Rec 91:54-5 Ap '42

Stratford, Connecticut

400 permanent units for workers in the Bridgeport area; views, plans, and construction outline. Arch Forum 76:316-19 My '42

Switzerland

Housing construction in Switzerland, 1926 to 1940. Monthly Labor R 53:1431-3 D '41

Taft, California

72 permanent units for families of enlisted personnel; views, plans, and construction outline. Arch Forum 76:296-8 My '42

United States

Ban on housing? il plans Business Week p74+ Je 13 '42

Battle of the prefabs; Business Week report to executives. il Business Week p37-44 Ag 15 '42

FHA homes in metropolitan districts; characteristics of mortgages, homes, borrowers under the FHA plan, 1934-1940. 238p U.S. Federal housing administration, Washington; 50c Supt. of doc. '42

FHA houses in metropolitan districts. Monthly Labor R 55:752-5 O '42

Federal housing and World war II. R. G. Weintraub and R. Tough. J Land & Pub Util Econ 18:155-62 My '42

Housing a nation at war. M. L. Colean. il Banking 34:30-1+ F '42

Housing after the war; abstract. M. L. Colean. Science 96:sup12 O 16 '42

Housing and the increase in population. M. H. Naigles. Monthly Labor R 54:869-80 Ap '42

Housing as usual; creation of NHA marks return of war problem to the old USHA crowd. Business Week p24+ Mr 28 '42

Housing facts revealed by 1940 census. Am Bld 64:68 My '42

Housing hits its stride; review of 1941. E. J. Cleary. il Eng N 128:99-100 Ja 15 '42

New dwelling units in nonfarm areas, 1940 and 1941. S. Jaffe. Monthly Labor R 54:1139-48 My '42

New dwelling units in nonfarm areas, first 9 months of 1941. Monthly Labor R 54:225-31 Ja '42

New dwelling units in nonfarm areas, first quarter of 1942; comparison with first and fourth quarter of 1941. Monthly Labor R 55:94-100 Jl '42

New National housing agency created. H. D. Ralph. Burroughs Clearing House 26:15-16 Ap '42

Post-war housing market. S. M. Livingston. Heat & Ven 39:52-3 O '42

Postwar housing needs of 40 billion seen as outcome of war activity. S. M. Livingston. Eng N 128:1029 Je 25 '42

Reorganizing the government housing agencies. K. K. Hoyt. Arch Rec 90:20 D '41

Sees rapid evolution; post-war home building situation. A. H. Ferguson. Am Bld 64:18, 22 O '42

Toward more housing. P. A. Stone and R. H. Denton. (T.N.E.C. monograph, no.8) 223p 30c Supt. of doc. '40; Review, by W. F. Stolper. R Econ Statis 24:47-8 F '42

Truman report on the House-approved Lanham act; federal agencies affecting architectural practice. Arch Rec 91:18+ Ja '42

See also

Federal housing administration

Federal public housing authority

Housing laws—United States

Housing projects

Housing projects, Government

Housing surveys

Defense workers

A-2 priority speeds Pine Acres homes, development at Manchester, Conn. J. B. Mason. il diags plan Am Bld 63:40-3+ D '41

Action, not words, will break the bottleneck of Detroit war housing. R. E. Sangster. il Am Bld 64:36-7+ Ag '42

All-industry drive for defense housing. il Dom Eng 158:46-7+ N; 34-7+ D '41

At home in a trailer; hauled on wheels from Michigan to North Carolina. il plans Am Bld 64:48-9 O '42

Break for prefab; reorganization of war housing. Business Week p17-18 Ja 24 '42

Building 40 houses a day; demountable homes for defense workers near the Mare Island navy yard. il Eng N 129:132-3 Jl 23 '42

Congress, war agencies agree to continue housing program. Eng N 129:449+ O 1 '42

Defense housing; are we building future slums or planned communities. D. Rosenman. il map Arch Rec 90:56-8+ N '41; Reply and rejoinder. 91:7 F '42

Defense housing critical areas; listed by states. Brick & Clay Rec 100:21 Mr '42

Defense housing demand causes N.Y. savings banks to create building companies to aid construction. E. B. Schwulst. Comm & Fin Chr 155:1447 Ap 9 '42

Defense housing priorities; procedure to follow. Sheet Metal Worker 32:42, 44, 46, 48 D '41

Defense housing speeded; electric installations for knockdown dormitory buildings; Farm security administration. S. Beamer. il diag plan Elec West 87:54-6 N '41

Demountable defense house; American houses, inc.; planned to prove defense housing standards wastefully high. il diags plans Arch Forum 76:156-60 Mr '42

HOUSING—United States—Defense workers—*Continued*

Detroit, short of housing may soon be short of bombers. il Arch Forum 76:193-7 Ap '42; Discussion. W. R. Sturgeon. 76:sup28+ My '42

Dormitories; Farm security administration program on Pacific coast. il Business Week p24 N 22 '41

Duplexes; better value war housing for Detroit. il plans Am Bld 64:48-50+ S '42

Duration dormitories; notes on the technical problem. F. L. Ackerman. il diags plans Arch Rec 92:32-6 Ag '42

Emergency city planning for Wichita, Kansas; difficulties caused by new housing projects for war workers. P. L. Brockway. il map Civil Eng 12:563-5 O '42

Emergency housing and post-war results; defense housing mortgage insurance. A. H. Ferguson. Trusts & Estates 74:37-8 Ja '42

Emergency needs for war-work dormitory housing outlined. H. Emmerich. Am Bld 64:76 Je '42

Emergency plumbing standards for defense housing. plans Am Bld 63:62-3 D '41

Empty city lots useful in war housing. Eng N 129:sup174+ O 22 '42

Equitable starts Brooklyn housing project. il East Underw 43:8 Ja 30 '42

Evansville, Ind. tackles war housing. il Am Bld 64:32-3 Jl '42

Extension of utility services to thousands of war housing units. Am Gas J 157:36 Jl '42

FHA changes regulations. K. K. Hoyt and R. R. Dickey. Arch Rec 91:18 F '42

FHA insurance for war housing projects over $350 million. Comm & Fin Chr 156:1351 O 15 '42

FHA is again functioning on Title VI; bigger loans for remodeling. Am Bld 64:18 Jl '42

Federal housing decentralized to get speedier construction. H. Emmerich. Eng N 128:917 Je 4 '42

FPHA duration dormitories for industrial war workers; scheme proposed by Paul Nelson, architect. diags plans Arch Rec 92:44-6 Jl '42

FWA decentralization. Arch Rec 91:18+ Mr '42

FWA will pool personnel to expedite housing program. Eng N 128:145 Ja 22 '42

5,000 houses in 5 months; pre-fabricated and partly pre-assembled demountable houses. il plan Eng N 129:212-17 Ag 13 '42

Five ways to put punch in war home design; Norfolk, Va. Victory home jobs. il plans Am Bld 64:46-7 O '42

FDR asks $600 million for war housing needs. Comm & Fin Chr 155:2124 Je 4 '42

Gas comfort in war-worker housing projects. il map Gas Age 90:47-50 Jl 16 '42

Gas for the Winfield Township defense housing project. F. Hudson. il plan Gas Age 89:10-11 Ap 23 '42

Glass conversion; Libbey-Owens-Ford turns to making low-cost houses. Business Week p67+ Mr 7 '42

Heating section requirements of new defense housing critical list. Heating-Piping 14:233-4 Ap '42

Houses for defense; in Erie, Pa. Contractor Trimble builds his 500 foundations like highways, frames his walls on the floor. il Arch Forum 75:327-9 N '41

Houses for defense; private enterprise prefabricates 600 for bomber builder Glenn Martin with walls of single new material. il diag plans Arch Forum 75:321-6+ N '41

Houses for defense; Westpark, 840-unit government project in naval ship-building town of Bremerton, Wash. il plans map Arch Forum 75:409-15 D '41

Houses; results under Lanham act. Arch Forum 75:422+ D '41

Housing curb explained. S. W. Jones. Heat & Ven 38:63+ N '41

Housing extension limits set by WPB. Elec W News ed 117:1734 My 23 '42

Housing for defense; building types study with standards, case study and time-saver standards. il diags plans Arch Rec 90:71-96 N '41

Housing for war. il Business Week p18-19 Ja 3 '42

Housing for war; millions of war workers need decent shelter; to give it to them, we must accept billeting and requisitioning. il map Fortune 26:92-6+ O '42

Housing for war workers. K. R. Murphy. bibliog Monthly Labor R 54:1257-77 Je '42

Housing offers business opportunity to strike blow for private initiative. A. H. Ferguson. Comm & Fin Chr 155:1050 Mr 12 '42

Housing to speed production. D. Rosenman. il Arch Rec 91:42-6 Ap '42

In the housing picture. il Arch Rec 91:63-6 My '42

Indiana real estate and mortgage conference on defense housing and private enterprise, held at Indiana university, School of business, Bloomington, Mar. 18, 1941. L. C. Bryant, ed. 24p pa $1 School of business, Indiana univ, Bloomington '41

Ingenuity will help house war workers; Twin Lakes motor lodge. il plans Am Bld 64:45-7 Mr '42

Insured equities; FHA insurance of home owner's equity rather than insuring the mortgage. Arch Forum 76:80+ F '42

Lending institutions are urged to finance more private defense housing. A. H. Ferguson. Comm & Fin Chr 155:335 Ja 22 '42

Line production speeds war housing. il Factory Management 100:82 F '42

Look ahead 6 months builders urge. il Am Bld 64:44-5+ O '42

Low-cost concrete houses for war workers. plans Concrete 50:10-11 O '42

Main extensions for war-housing projects. Gas Age 89:28 Je 4 '42

More war homes under FHA title VI. J. B. Mason. il plans Am Bld 64:54-5+ F '42

New dwelling units in selected defense areas, 1940 and 1941. Monthly Labor R 54:1149-53 My '42

New funds makes defense housing a billion-dollar program. Eng N 127:903 D 25 '41

New houses replace defense workers' shacks near Pryor, Okla. il Eng N 129:206 Ag 13 '42

News from Washington on defense activities. K. K. Hoyt. Published in monthly numbers of Architectural record

93 defense houses in Radford, Virginia; views, plans, and construction outline. Arch Forum 76:113-16 F '42

No safety in numbers; housing war workers; problems of health and safety multiply. J. E. Ryckman. il Nat Safety N 45:24-5+ My '42

Norfolk, Va.; confusion, chicanery, ineptitude. il Arch Forum 76:366-72 Je '42; Discussion. 77:18+ Jl '42

Not boxes, not barracks, but homes. J. B. Mason. il diags plans Am Bld 64:38-41+ Ag '42

Occupancy of old and new homes by Bridgeport war workers. A. C. Findlay. Monthly Labor R 55:206-16 Ag '42

On the midwestern war housing front; warm-air heating equipment. il diags plan Sheet Metal Worker 33:48-51 My '42

Opportunities under title VI. il diags plans Am Bld 64:48-59 Mr '42

Ordnance causes ordinance in Crawford county, Pennsylvania; TNT plant results in zoning. L. F. Diehl. J Land & Pub Util Econ 18:357-63 Ag '42

Organization of occupancy in critical war localities. L. C. Bryant and M. J. Feldstein. J Land & Pub Util Econ 18:339-49 Ag '42

Park living plan for defense housing; Rahway River Park (N.J.). il Eng N 127:704 N 20 '41

Pennsylvania war workers well housed in concrete masonry buildings. il Concrete 50:17+ Jl '42

Pre-cut lumber speeds defense housing; Rahway River Park (N.J.); staff report with comments by C. F. MacEvoy. il plan Eng N 127:798-801 D 4 '41

Prefabricated house program pushed into mass production; Federal works agency will award contracts. Eng N 128:73-4 Ja 15 '42

HOUSING—United States—Defense workers—*Continued*

Prefabrication gets its chance as FWA allocates $153 million for demountable houses; with description of companies engaged in prefabrication. il Arch Forum 76:81-8 F '42
President signs defense housing bill. Comm & Fin Chr 155:39 Ja 1 '42
Priorities and defense housing critical list revision. R. R. Dickey. Arch Rec 91:18+ Ap '42
Progress of FHA war housing. Sheet Metal Worker 33:55 Ag '42
PBA residence halls for women, Washington, D.C. il plans Arch Rec 92:40-3 Jl '42
Real estate boards approve national war housing policy. Comm & Fin Chr 156:26 Jl 2 '42
Realtors ask appointment director of war housing. Am Bld 64:72 Mr '42
Recommendations of the National committee on the housing emergency; a program for housing workers in war industries. 30p pa 10c Nat. committee on the housing emergency, New York '42
Recreation and housing for women war workers. M. V. Robinson. U S Women's Bur Bul 190:1-40 bibliog(p35-7); pa 10c Supt. of doc. '42
Rental duplex units pre-built on site; Alabama war housing rushed in power tool equipped shop. G. H. Watson. il diags plans Am Bld 64:69-71 Je '42
Repair and conversion into smaller units offer market in private home building. Concrete 50:20-2 S '42
Revitalized FWA organization speeds defense housing program contracts. Eng N 128:299 F 19 '42
Roads to plumbing and heating supplies; defense housing road. il Dom Eng 159:43-4+ Mr '42
Rubberized cotton fabric balloons used in construction of defense homes; used as forms for concrete; Falls Church defense homes project. il Rubber Age 50:189-90 D '41
Seattle war workers get homes, not mere housing; Wedgewood development. T. Stevens. il plans Am Bld 64:68+ Je '42
Service standards for war housing defined. Elec W 117:2232 Je 27 '42
Shelter to speed war work; analysis of the problem and an announcement of Federal public housing authority program. F. L. Ackerman. Arch Rec 91:38+ Je '42
Site assembly methods speed housing construction. il Eng N 128:18 Ja 1 '42
Structural panels build quick homes for war workers. B. L. Johnson. il diags plans Am Bld 64:40-3+ S '42
Title VI defense home boom hits Norfolk, Va. il Am Bld 64:62-3+ Ap '42
U.S. government to lease homes for war workers. Comm & Fin Chr 156:1641 N 5 '42
War guests next; requisitioning, commandeering, and billeting seems certain. il Business Week p24+ O 24 '42
War housing. il diags plans Arch Forum 76:261-343, 399-412 My-Je '42
War housing & vice versa; Blandford program. Arch Forum 77:33-5 Jl '42
War housing units above half-million. Comm & Fin Chr 156:1638 N 5 '42
War needs; housing. il diags plans Arch Rec 91:47-62 Ap '42
WPB advocates war housing near Ford Willow Run plant. Eng N 129:321 S 3 '42
WPB issues wartime rules for house heating. charts maps Arch Rec 91:63-6 Ap '42
Warfare in housing. R. R. Dickey. Arch Rec 92:7 Jl '42
Warm air for defense housing; Joliet, Ill. project. il plans Sheet Metal Worker 33:56-7 F '42
Warm air heating for defense housing; with time-saver standards. diags Arch Rec 91:67-70 Ap '42
Wartime approach to prefabrication. diags plans Arch Forum 77:78-80 Jl '42
We are asking private builders to furnish 270,000 dwellings. J. B. Blandford, jr. Am Bld 64:42 O '42
We put excitement into war homes; 25-house job near Worcester, Mass. il diag plan Am Bld 64:30-1+ Jl '42
What housing for Willow Run? il Arch Rec 92:51-4 S '42
Workers' town? shipyard laborers propose to buy government-built village of Audubon Park, N.J. il Business Week p30 N 29 '41

See also
Military posts

Defense workers—Bibliography

Defense housing in the United States. M. B. Devitt, comp. 20 numb l Federal housing administration, Washington, D.C. '41

Vallejo, California

39 prefabricated duration dormitories and 200 cabins; views, plans, and construction outlines. Arch Forum 76:334-7 My '42

Vermont

Housing of 538 Vermont farm families. V. Britton. diags Vermont Agric Exp Sta (Burlington) Bul 470:1-39 bibliog(p37) '40
Housing of 299 Vermont families. V. Britton. diags Vermont Agric Exp Sta (Burlington) Bul 469:1-52 bibliog '40

Washington, D.C.

District of Columbia rent-control law. Monthly Labor R 54:145-8 Ja '42
Housing of federal employees in the Washington (D.C.) area in May 1941. J. Cornfield and M. Weber. Monthly Labor R 53:1224-37 N '41
PBA residence halls for women, Washington, D.C. il plans Arch Rec 92:40-3 Jl '42
Public housing in the District of Columbia, 1940-41. Monthly Labor R 54:1356 Je '42
Urges home remodeling; abstracts. D. H. McNeal. Am Bld 64:86 Mr '42; Arch Forum 76:sup66+ F '42

Wichita, Kansas

Emergency city planning for Wichita; difficulties caused by new housing projects for war workers. P. L. Brockway. il map Civil Eng 12:563-5 O '42

Wilmington, North Carolina

War needs; housing. il plans Arch Rec 91:52-3 Ap '42

Windsor Locks, Connecticut

Permanent units; views, plans, and construction outline. Arch Forum 76:328-31 My '42

HOUSING, Cooperative

Housing co-ops; Coordinator Palmer seeks revolving fund to start defense projects. Business Week p35-6 F 14 '42

See also
Audubon Village, N.J.

HOUSING authorities

Management cost reduction; plan being tried out in Arizona. Arch Rec 91:90 Mr '42
State housing agencies. D. Schaffter. 808p bibliog(p691-783) $7.50 Columbia univ. press '42

HOUSING finance

Building loans up in 1941. Comm & Fin Chr 155:960 Mr 5 '42
Defense housing demand causes N.Y. savings banks to create building companies to aid construction. E. B. Schwulst. Comm & Fin Chr 155:1447 Ap 9 '42
Emergency housing and post-war results; defense housing mortgage insurance. A. H. Ferguson. Trusts & Estates 74:37-8 Ja '42
Federal home mortgage and housing agencies; loans and discounts outstanding, by institutions, yearly June and Dec. 1933-1940 and monthly, Nov. 1940-Nov. 1941. Fed Res Bul 28:52 Ja '42 [cont monthly]
FHA changes regulations. K. K. Hoyt and R. R. Dickey. Arch Rec 91:18 F '42
FHA is again functioning on Title VI; bigger loans for remodeling. Am Bld 64:18 Jl '42

HOUSING finance—*Continued*

FDR asks $600 million for war housing needs. Comm & Fin Chr 155:2124 Je 4 '42

Government pushes campaign to convert-conserve; wartime guide to building materials and FHA terms. il Am Bld 64:54, 56 O '42

Housing economics. diags Arch Forum 77: 114-15 S '42

Housing offers business opportunity to strike blow for private initiative. A. H. Ferguson. Comm & Fin Chr 155:1050 Mr 12 '42

Housing policy and the building cycle. L. Grebler. R Econ Statis 24:66-74 My '42

Housing stop order's effect on mortgage financing. A. D. Theobald. Burroughs Clearing House 26:7-8 Je '42

Lending institutions are urged to finance more private defense housing. A. H. Ferguson. Comm & Fin Chr 155:335 Ja 22 '42

Local housing authority bonds. Comm & Fin Chr 154:1018 N 13 '41

Modernized defense housing. A. H. Ferguson. il Banking 34:92 Ap '42

More war homes under FHA title VI. J. B. Mason. il plans Am Bld 64:54-5+ F '42

New dwelling units in nonfarm areas, 1940 and 1941. S. Jaffe. Monthly Labor R 54: 1139-48 My '42

One city's defense housing; Laconia, New Hampshire. E. H. Merrill. Banking 34:69 Mr '42

Opportunities under title VI. il Am Bld 64: 48-9 Mr '42

Savings and loan league strongly urges government to quit housing business. Comm & Fin Chr 154:1564 D 18 '41

Savings and loan wartime problems. M. Bodfish. il Burroughs Clearing House 26:16-18+ Mr '42; Abstract. Trusts & Estates 74:609-10 Je '42

Urges government economy in the housing field; resolution by United States savings and loan league. Bankers M 144:79-80 Ja '42

Vital role in housing for N.Y. savings banks. Comm & Fin Chr 155:1448 Ap 9 '42

War housing needs private financing. J. B. Blanford, jr. Comm & Fin Chr 156:636 Ag 20 '42

Wartime FHA loans. Banking 35:53 O '42

See also

Building—Finance
Building loans
Federal housing administration
Home loan banks
Home owners' loan corporation
Home ownership—Finance
Housing—United States—Defense workers
Housing, Cooperative
Mortgages

HOUSING laws

See also

Building laws and regulations
Rent—Law

Great Britain (colonies)

Recent housing legislation in the British Commonwealth. Int Labour R 46:95-102 Jl '42

New York (state)

Multiple dwelling law of the state of New York, chapter 61A of the Consolidated laws, chapter 713 of the laws of 1929, including 1941 amendments. H. J. Lee and A. R. Macoskey, eds. 127p 85c Eagle lib, Brooklyn, N.Y. '41

United States

Lanham act. Arch Forum 76:sup2+ F '42

National housing act as amended and provisions of other laws pertaining to the Federal housing administration; including all amendments to Sept. 2, 1941. 96p U.S. Federal housing administration, Washington; 15c Supt. of doc. '41

HOUSING of war workers. See Housing—United States—Defense workers

HOUSING projects

A-1 priority on year 'round charm; small homes with unusual architectural appeal in defense home price range. il plan Am Bld 64:52-3 Ja '42

A-2 priority speeds Pine Acres homes, development at Manchester, Conn. J. B. Mason. il diags plan Am Bld 63:40-3+ D '41

Caution needed on low cost housing. M. E. Bulske. Nat Underw 46:6 Ap 2 '42

Cost summary of selected U.S.H.A.-aided housing projects. Eng N 128:724 Ap 23 '42

Duplexes; better value war housing for Detroit. il plans Am Bld 64:48-50+ S '42

Heating FHA model community; Colonial Village, Ill. il plan Sheet Metal Worker 33: 106, 108+ Ja '42

Houses for defense; private enterprise prefabricates 600 for bomber builder Glenn Martin with walls of single new material. il diag plans Arch Forum 75:321-6+ N '41

Housing from the tenant's viewpoint; study by E. Coit. diags plans Arch Rec 91:71-84 bibliog(p84) Ap '42

How Smith & Dawson have kept 'em building; Chicago builders adjust operations in Prospect Heights development. R. E. Sangster. il diags plans Am Bld 64:34-8+ Jl '42

How Stackhouse speeds title VI production. il plans Am Bld 63:53-5 D '41

Levitt & sons of Virginia set new standards in Title VI war homes; Oakdale Farms project will be 90% rented to naval officers. J. B. Mason. il diags plans Am Bld 64:48-53+ Je '42

Look ahead 6 months builders urge; Long Island war housing. il Am Bld 64:44-5+ O '42

Mass heating installations for mass housing; pre-assembling of plumbing and heating piping in housing project. il plan Dom Eng 158:58-60+ D '41

Monticello Village, fast moving title VI victory home job. il plans Am Bld 64:65-7 Ap '42

93 defense houses in Radford, Virginia; views, plans, and construction outline. Arch Forum 76:113-16 F '42

Parkchester IV; Colonial Village, Arlington, Va. Arch Forum 75:sup2 D '41

Paul Roche looks ahead to V + 1; Stephen Manor community, Long Island. J. B. Mason. il diags plans Am Bld 64:44-7+ S '42

Planned formwork speeds construction; Fort Greene houses. il plan Eng N 129:302-4 Ag 27 '42

Project center building for 1,000-unit low-cost housing project at Houston, Texas. il plans Arch Rec 91:52-3 My '42

Seattle war workers get homes, not mere housing; Wedgewood development. T. Stevens. il plans Am Bld 64:68+ Je '42

Sewage disposal for a housing project. H. Moore. il diags Eng N 128:485-6 Mr 26 '42

Sewerage design for housing projects. il chart Eng N 128:775-6 My 7 '42

They put glamour, too, in war homes; Blue Ridge manor, Kenilworth, N.J. il diags plans Am Bld 64:60-1+ Mr '42

Treated lumber in Los Angeles war homes. il plan Am Bld 64:64-5 Je '42

250 permanent units, Stowe township, Pa. il diags plans Arch Forum 77:83-4 Jl '42

War housing. il diags plans Arch Forum 76: 261-343 My '42

War needs; housing. il diags plans Arch Rec 91:47-62 Ap '42

We put excitement into war homes; 25-house job near Worcester, Mass. il diag plan Am Bld 64:30-1+ Jl '42

What housing for Willow Run? il Arch Rec 92:51-4 S '42

See also

Apartment houses
Suburban development

HOUSING projects, Cooperative. See Housing, Cooperative

HOUSING projects, Government

Brickbats; Truman committee investigation. Arch Forum 76:79-80 F '42

Center Line, Michigan; 476 permanent units; views, plans, and construction outline. Arch Forum 76:281-4 My '42

Community activities in public housing projects. Monthly Labor R 54:100-3 Ja '42

HOUSING projects, Government—*Continued*

Development of a park site; Rahway River Park project of the Mutual ownership defense housing division. il plans Arch Rec 90:86-7 N '41

Gas comfort in war-worker housing projects. il map Gas Age 90:47-50 Jl 16 '42

Heating Fort Greene houses. M. Freund. il diags plans Heat & Ven 39:17-24 F '42

Houses for defense; Westpark, 840-unit government project in naval ship-building town of Bremerton, Wash. il plans map Arch Forum 75:409-15 D '41

Labor under the Farm Security program. F. E. Parker. Monthly Labor R 53:1368-87 D '41

Modern homes for aircraft workers; Linda Vista, Calif. R. N. Bryan. il Comp Air M 47:6737-8 My '42

Planning war housing; office and project procedure, by housing planners Hill-Hoover-Heckler-Kohankie, of Pittsburgh. il plans Arch Forum 76:268-71 My '42

Pre-cut lumber speeds defense housing; Rahway River Park (N.J.): staff report with comments by C. F. MacEvoy. il plan Eng N 127:798-801 D 4 '41

Public tenant speaks. L. Wayman. il plans Arch Forum 76:217-22 Ap '42

72 permanent units for families of enlisted personnel, Taft, Calif.; views, plans, and construction outline. Arch Forum 76:296-8 My '42

600 demountable units, rental; Beaumont, Texas; with views, plans and construction outline. Arch Forum 76:285-91 My '42

300 permanent units; two-story row houses and flats, New Britain, Conn.; views, plans, and construction outline. Arch Forum 76:406-7 Je '42

3,000 permanent units, rental; Linda Vista, San Diego, Calif. il plans Arch Forum 76:277-80 My '42

War housing for peacetime use; project of 350 dwelling units at Fort Benning, Ga. W. J. Henry. il diags plans Eng N 129:104-6 Jl 16 '42

With benefit of local planning; Dallas Park project of the Mutual ownership defense housing division, FWA. il plans Arch Rec 90:84-5 N '41

Workers' town? shipyard laborers propose to buy government-built village of Audubon Park, N.J. il Business Week p30 N 29 '41

World's biggest prefab job; 5,000-unit public job at Portsmouth, Va. il diags plan Am Bld 64:54-7+ Je '42

See also
Military posts

HOUSING projects, Municipal

500 permanent units; three-story buildings, New Haven, Conn.; views, plans, and construction outline. Arch Forum 76:409-12 Je '42

Municipal news; rent schedules in public housing projects. Comm & Fin Chr 156:1624 N 5 '42

154 permanent units, Oakland, Calif.; views, plans, and construction outline. Arch Forum 76:314-15 My '42

Phoenix low-cost housing development. J. Girand. il Civil Eng 12:378-80 Jl '42

610 permanent units; combined row-house and apartment development, Los Angeles; views, plans, and construction outline. Arch Forum 76:402-3 Je '42

300 permanent units, Armistead Gardens, Baltimore; views, plans, and construction outline. Arch Forum 76:304-5 My '42

300 permanent units; Quinnipiac Terrace, USHA project, New Haven, Conn.; views, plans, and construction outline. Arch Forum 76:300-3 My '42

War housing; 772 permanent units originally intended for non-defense housing; views, plans, and construction outline. Arch Forum 76:399-401 Je '42

HOUSING research

Housing from the tenant's viewpoint; study by E. Coit. diags plans Arch Rec 91:71-84 bibliog(p84) Ap '42

Some considerations in the economic possibilities of slum clearance. S. Keyes. map J Land & Pub Util Econ 18:204-9 My '42

HOUSING surveys

Appraisal technique for urban problem areas as a basis for housing policy of local governments; illustrative results from three test surveys. A. A. Twichell and A. Solow. Pub Health Rep 57:285-96 F 27 '42

Appraisal technique for urban problem areas as a basis for housing policy of local governments; use of the technique in planning remedial action for a representative problem area. A. A. Twichell, A. Emery and A. Solow. Pub Health Rep 57:485-501 Ap 3 '42

Evaluating rural housing; the development of the Florida housing inventory and the index of housing adequacy. C. I. Mosier. 88p pa 50c Florida curriculum laboratory, College of education, Univ. of Florida, Gainesville '42

Eye to the future; Chicago completes survey of its dwellings. Business Week p46 S 12 '42

Index of housing in Chicago. D. L. Foley. J Land & Pub Util Econ 18:209-13 My '42

Occupancy of privately financed houses in Bridgeport. A. C. Findlay. Monthly Labor R 54:1073-83 My '42

Public tenant speaks. L. Wayman. il plans Arch Forum 76:217-22 Ap '42

HOUSTON, Texas

Health and recreational center; views, plans, and construction outline. Arch Forum 76:134-6 F '42

Houston; a history and guide. 363p $2.50 Anson Jones press, Houston, Tex. '42

See also
Housing—Houston, Texas
Population—Houston, Texas

Industries

Emergency shipyard at Houston. il Marine Eng 47:134-6 Jl '42

Rapid transit

How mass transportation is conducted in Houston. M. A. Jarrow. il Mass Transportation 38:199-203 Ag '42

HOUSTON lighting and power company

Nationwide banking group soliciting exchanges of stock. Comm & Fin Chr 155:2458 Je 29 '42

HOWE, Harrison Estell, 1881-

Award to Dr Howe of the medal of the Society of chemical industry. Science 96:35-6 Jl 10 '42; por Oil Paint & Drug Rep 142:5+ Jl 6 '42

HOWE Sound company

Another look at your company. Mag of Wall St 70:184 My 30 '42

HOWITZERS. See Guns (ordnance)—Manufacture

HRDLIČKA, Aleš, 1869-

Retirement. Science 96:130 Ag 7 '42

HUBBELLITE. See Cement—Copper oxychloride cement

HUCKABACK

Linen finish for cotton huckabacks. Textile Col 64:284 Je '42

HUDGINS, Houlder

WPB purchasing division names Hudgins to succeed MacKeachie. por Oil Paint & Drug Rep 141:3 Mr 16 '42

HUDSON, New York

Water supply

Emergency water supply pumping with fire engines; drought relief. J. M. Wardle. il plan Pub Works 73:14-16 Ag '42

HUDSON bay

Is the land around Hudson bay at present rising? H. C. Cooke; B. Gutenberg. Am J Sci 240:144-9 F '42

HUDSON motor car company

Motor cars to munitions. il Am Mach 86:595-8 Je 11 '42

HUDSON motor car company—*Continued*

Stocks with high quick assets and good earnings. F. R. Walters. Mag of Wall St 70:89-90 My 2 '42

HUDSON'S Bay company

Accounts. Economist 143:150 Ag 1 '42

Capital repayment, etc. Comm & Fin Chr 156:1151 S 28 '42

HUDSON'S rules. See Optical rotation

HUFF, Arthur E.

Hero of Corregidor a chemist. por Water Works & Sewerage 89:351 Ag '42

HUGHES, Frederick George

Sketch. por Metal Prog 41:800-1 Je '42

HULL, Cordell, 1871-

Cordell Hull: a biography. H. B. Hinton. 377p $3 Doubleday '42

HULL, James Roger, 1908-

Vice-president and production head of Mutual Life. por East Underw 43:4 F 6 '42

HULL, Roger Benton, 1885-1942

Sketch. por Nat Underw (Life ed) 46:3+ Ja 30 '42; East Underw 43:6+ Ja 30 '42

HUMAN body. See Physiology

HUMAN nature. See Social ethics

HUMBLE oil and refining company

Debentures sold privately; annual report for 1941. Comm & Fin Chr 155:1920 My 18 '42

Who's who in refining. Oil & Gas J 41:95 My 14 '42

HUMBOLDT current

Humboldt current in 1941. E. G. Mears. Science 95:433-4 Ap 24 '42

HUMIC acid

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:49 Je 22 '42

HUMIDIFIERS

Ace carton corporation builds windowless plant with year-round air conditioning system. H. B. Reinhardt, jr. il diag Heat & Ven 39:34-9 Jl '42

Methods to avoid corrosion; humidifier manufactured by the J. L. Skuttle co. il Product Eng 13:192-3 Ap '42

Owens-Corning Fiberglas corp. air conditioning system. il Heat & Ven 39:81-3 Ja '42

Plastics competition award to Carrier corp. il Mod Plastics 19:100-1 N '41

HUMIDITY

Air humidity control in laboratory knock testing; abstract. H. W. Kellogg. Nat Pet N 34 pt 2:R387 O 28 '42

Application of the effective temperature scheme to the comfort zone in Netherlands India. J. A. Wiesebron and others. bibliog diags Heating-Piping 14:632-40 O '42

Bibliography of nomographs on humidity and drying. R. Myllynen and D. S. Davis, comps. News Ed 19:1218, 1432 N 10, D 10 '41

Chemical conditioning system for independent humidity control; administration and factory offices. E. A. Windham. il diag Heating-Piping 14:25-7 Ja '42

Composition cork; with list of patents. L. P. Hart, jr. and others. bibliog il Ind & Eng Chem 34:649-58 Je '42

Condensation of moisture and its relation to building construction and operation. F. B. Rowley, A. B. Algren and C. E. Lund. (Bul. 18) 69p pa 40c Univ. of Minnesota. Engineering experiment station, Minneapolis '41

Effect of changes in moisture and temperature on mine roof; first report on strata overlying the Pittsburgh coal bed. I. Hartmann and H. P. Greenwald. bibliog pls U S Bur Mines Rep of Invest 3588:1-38 '41

Effect of humidity on beta streptococci (group C) atomized into air. W. F. Wells and P. Zappasodi. bibliog Science 96:277-8 S 18 '42

Effect of moisture in blast air. R. J. Cowan. il diag Iron Age 150:43-50 N 12 '42

Humidity as a health factor in air conditioning. F. W. Hutchinson. Heat & Ven 39:22-4 Ap '42

Humidity control for ether fumes. Heat & Ven 39:55 S '42

Humidity control system in dryer will pay for itself in a year; Mason City (Ia.) brick & tile co. il Brick & Clay Rec 100:44+ Mr '42

Laboratory temperature and humidity cabinet for studying the hygroscope properties of tobacco. L. H. Davis, A. W. Petre and C. F. Bailey. il diag Ind & Eng Chem Anal ed 14:587-90 Jl 15 '42

Minneapolis-Honeywell regulator co.; humidity control system for manufacture of gun sights. J. E. Haines. il diag Heat & Ven 39:40-2 O '42

Natural humidity control. F. S. Graham. diags Power Pl Eng 46:112, 114+ O '42 (to be cont)

Physiological influence of atmospheric humidity; second report of the ASHVE technical advisory committee. bibliog Heating-Piping 13:774-7 D '41; Discussion. 14:268-9 Ap '42

Psychrometric calculations for high altitudes. C. Yin. Power Pl Eng 46:88-9 S '42

Psychrometric charts, high and low range. D. B. Brooks. Metal Prog 42:689, 692 O '42

Psychrometric properties of atmospheric air. R. D. Blum. Refrig Eng 43:227-31 Ap '42

Psychrometry of cooling towers. E. Simons. bibliog diags Chem & Met Eng 49:82-6 Ap; 138-41 My; 83-8 Je '42

Quantity of vaporous water in the atmosphere. C. G. Abbot. Smithsonian Misc Coll v 101, no 12:1-7 '42

Sensitive humidistat. W. O. Williams. diag Science 95:283-4 Mr 13 '42

Study of the electric hygrometer. R. N. Evans and J. E. Davenport. bibliog diags Ind & Eng Chem Anal ed 14:507-10 Je 15 '42

Temperature- and humidity-controlled dryer for a chemical engineering laboratory. R. M. Schaffner and J. Coull. diags Ind & Eng Chem Anal ed 14:590-2 Jl 15 '42

Threshhold field studies of various positive corona phenomena. K. E. Fitzsimmons. bibliog Phys R 61:175-82 F 1 '42

Tropical climate and telecommunication technique. W. M. H. Schulze. Wireless Eng 19:304-8 Jl '42

Variation of humidity is quickly apparent in yarn quality. Rayon 23:116+ F '42

See also

Air conditioning

Dampness in buildings

Dehumidifiers

Moisture

HUNGARY

Economic conditions

Hungary's difficulties. Economist 142:608 My 2 '42

HUNNEMANINE

Alkaloids of papaveraceous plants; hunnemannia fumariaefolia Sweet and the constitution of a new alkaloid, hunnemanine. R. H. F. Manske, L. Marion and A. E. Ledingham. bibliog Am Chem Soc J 64:1659-61 Jl '42

HUNTER paper museum. See Massachusetts institute of technology—Dard Hunter paper museum

HUNTING

Too few hunters; overabundance of big game. Business Week p68+ S 12 '42

HUPP motor car corporation

Reorganization plan. Comm & Fin Chr 155:503 Ja 31 '42

HURBENIUM. See Lead alloys

HURRICANES

Continuous weather recording provides refinery protection. N. Williams. il Oil & Gas J 40:59-60 N 27 '41

Directional characteristics of tropical storm static. S. P. Sashoff and W. K. Roberts. bibliog map Inst Radio Eng Proc 30:131-3 Mr '42

Hurricane danger; Gulf and Caribbean regions. Science 96:sup8-9 Ag 21 '42

Hurricanes, their nature and history, particularly those of the West Indies and the southern coasts of the United States. I. R. Tannehill. 2d ed 265p bibliog(p253-9) $3.50 Princeton univ. press '42

HURRICANES—*Continued*
In the path of the storm; much can be done to enable industrial buildings to weather the blow. E. B. Gerry. il Nat Safety N 45:20-1+ F '42

HUSBAND and wife
Coverage under automobile liability policy for injuries to wife of assured. Weekly Underw 146:979 Ap 25 '42
Status of surviving spouse and right of election. W. C. Wiseman. Trusts & Estates 75:289-96 S '42
War widows are variously affected by state laws. Credit & Fin Management 44:28+ O '42
Wife held conclusively presumed dependent upon husband despite filing of action for divorce. F. S. Knight. Weekly Underw 146:1091 My 9 '42
See also
Marriage

HUTCHINGS, O. H.
Portrait. Elec W News ed 117:cover Mr 28 '42

HUTCHINS, Daniel Joseph, 1892-
On the hot spot in Detroit. por Business Week p7 S 5 '42

HUXLEY, Julian Sorell, 1887-
Secretary of the Zoological society of London. Science 96:290 S 25 '42

HYATT medal
Hyatt medal to honor achievement in plastics. il Oil Paint & Drug Rep 142:4 Jl 6 '42

HYBRIDIZATION
Hybrid poplars. P. Vogelsang. Paper Tr J 113:38-40 N 13 '41; Same cond. Paper Ind 23:824-6 N '41
Mock-dominance and hybrid vigor. F. D. Richey. Science 96:280-1 S 18 '42

HYCAR. See Rubber, Artificial

HYDANTOINS
Further study of the cyclization of ureido derivatives of unsymmetrical iminodibasic acids together with the synthesis of certain hydantoins and other related compounds. D. R. Seeger and A. MacMillan. bibliog Am Chem Soc J 64:1686-91 Jl '42
Glyoxalines; some hydantoins resulting from the reaction between phenylglyoxal and urea and substituted ureas. H. J. Fisher, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:1434-6 Je '42
Hydantoins containing a tetrahydropyranyl substituent. H. R. Henze and R. L. McKee. bibliog Am Chem Soc J 64:1672-4 Jl '42
Identification of carbonyl compounds through conversion into hydantoins. H. R. Henze and R. J. Speer. Am Chem Soc J 64:522-3 Mr '42

HYDRACRYLIC acid
Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

HYDRANTS
Hydrant maintenance. E. T. Cranch. il Water Works & Sewerage 89:241-3 Je '42
Maintenance of hydrants; Canadian municipalities report standards of practice. A. E. Berry. il diags Water & Sewage 80:19-23, 43-6 Mr '42

HYDRATES
Eliminating hydrate formation in south Texas. F. H. Dotterweich. diag Pet Eng 13:83-4, 87 Mr '42
Hydrocarbon hydrates. I. C. Bechtold. bibliog Oil & Gas J 40:193-4+ Ap 30 '42; Same. Pet Eng 13:57, 60, 62, 64 Ap '42; Abstract. Chem & Met Eng 49:136-7 My '42
Natural-gas hydrates. D. B. Carson and D. L. Katz. bibliog diags Gas Age 89:15-18+ F 26 '42
Studies on high molecular weight aliphatic amines and their salts; the systems octylamine-, dodecylamine- and octadecylamine-water. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. il Am Chem Soc J 64:1516-23 Jl '42
See also
Carbohydrates

Analysis
Analytical procedures employing Karl Fischer reagent; the determination of water of hydration in salts. W. M. D. Bryant and others. bibliog Am Chem Soc J 63:2924-7 N '41

HYDRATION
Hydration of aluminum sulfate. N. O. Smith. bibliog Am Chem Soc J 64:41-4 Ja '42
Hydration of isobutene in dilute nitric acid. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1938-40 Ag '42
Hydration of β-lactoglobulin crystals. T. L. McMeekin and R. C. Warner. bibliog Am Chem Soc J 64:2393-8 O '42
Hydration of the ethylenic linkage; the equilibrium between isobutene, *t*-butyl alcohol and water. C. W. Smart and others. Am Chem Soc J 63:3000-2 N '41
Hydration of unsaturated compounds; acrolein and acrylic acid. D. Pressman and H. J. Lucas. Am Chem Soc J 64:1953-7 Ag '42
Hydration of unsaturated compounds; the oxonium complex constant of mesityl oxide. D. Pressman, L. Brewer and H. J. Lucas. bibliog Am Chem Soc J 64:1117-22 My '42
Hydration of unsaturated compounds; the role of the oxonium complexes in the hydration of mesityl oxide and the dehydration of diacetone alcohol. D. Pressman, L. Brewer and H. J. Lucas. Am Chem Soc J 64:1122-8 My '42
Magnesia hydrated at Kelley Island's plant. R. J. Schumacher. il plan Rock Prod 45:50-1+ Je '42
Sources of thermodynamic data; methods of application to the industry; hydration of ethylene. J. G. Aston. bibliog il Ind & Eng Chem 34:514-21 My '42
Ultracentrifuge; practical aspects of the ultracentrifugal analysis of proteins. E. G. Pickels. bibliog il diags Chem R 30:341-55 Je '42
See also
Water of hydration

HYDRATION, Heat of
Thermal characteristics of high-temperature oil well cements. E. E. Byrd and F. W. Jessen. bibliog il Ind & Eng Chem 34:1142-8 O '42

HYDRAULIC brakes. See Brakes, Hydraulic

HYDRAULIC control
Airplane hydraulic systems. E. M. Greer and H. J. Marx. il diags Aviation 40:70-1+ S; 60-1+ N '41; 41:96-7+ Ja '42
Applying hydraulic servo circuits in machines; steering booster for use on heavy vehicles. C. E. Grosser. diags Machine Design 14:122-4+ Ap '42
Bristol hydraulically-operated aeroplane gun turret. il(p450) Engineering 152:446-7 D 5 '41
Designing hydraulic servo-circuits. C. E. Grosser. diags Machine Design 14:52-6+ Ja '42
Development of Bristol aircraft gun turrets. il Engineer 172:357-8 N 21 '41
Electro-hydraulic unit gives sensitive control. il diags Machine Design 13:70-1 D '41
Fixture rotates on hydraulic lift. J. A. Raught. diag Am Mach 86:656 Je 25 '42
Growth and development of aircraft hydraulic systems and equipment; abstract. H. J. Marx and E. M. Greer. diags Automotive & Aviation Ind 86:21-3 Ap 1 '42
Hydraulic control speeds milling of aircraft pistons. W. C. Oberem. il diags Product Eng 13:507-10 S '42
Hydraulic remote control for the operation of machine tools. diag Mach 48:192-3 Ap '42
Semi-automatic control operates standard machine tools. il Steel 110:82 Je 29 '42
Tractor-mounted unit controls earth movers. diags Product Eng 13:312-14 Je '42
Valve control simplifies casting machine. J. J. Rose. il diags Machine Design 14:110-12 Ap '42

HYDRAULIC conveying

Fire hose sluices coal to emergency storage; Illinois iron & bolt co. il Power 86:816 N '42

Pipe-line flow of solids in suspension. L. C. Fairbank, jr.; W. E. Wilson. Am Soc C E Proc 67:1421-44 O '41; Discussion. 67:1445-7, 1937-8; 68:480-2 O, D '41, Mr '42

Pumping problems in the paper industry. M. L. Edwards. diag Power Pl Eng 46: 83-4 Ap '42

HYDRAULIC engineering

Development of Mississippi River channel; model-prototype conformity. F. R. Brown. Am Soc C E Proc 68:1366-8 O '42

Drop structures for erosion control; protection of watershed by East Bay municipal utility district, California. L. S. Hall. il Civil Eng 12:247-50 My '42

Handbook of applied hydraulics. C. V. Davis. 1084p $7.50 McGraw-Hill '42

Hydraulic design of drop structures for gully control. B. T. Morris and D. C. Johnson. il diags Am Soc C E Proc 68:17-48 Ja '42; Discussion. 68:650, 812-18, 1021-2, 1171-7, 1424-6 Ap-Je, S-O '42

Hydraulic structures; model-prototype conformity. J. E. Warnock and H. G. Dewey, jr. il diags Am Soc C E Proc 68:1269-94 O '42

Navy graving dock built offshore in the dry; dredging, wells, pumps, etc. used to dewater site. E. C. Seibert. il diag Eng N 127:871-4 D 18 '41

Pump performance highlights hydraulic session, American society of mechanical engineers. diags Power 85:975-7 Mid-D '41

Research for flood control data; guide to printed material. G. E. Larson. il map Civil Eng 12:131-4 Mr '42

Testing theoretical losses in open channel flow. J. G. Jobes and J. H. Douma. il Civil Eng 12:613-15 N '42 (to be cont)

See also

Aqueducts
Bridges—Foundations and piers
Caissons
Canals
Cofferdams
Culverts
Dams
Docks
Drainage
Dredging
Flood control
Gates, Hydraulic
Hydraulic conveying
Hydraulic excavation
Hydraulic filling
Hydraulic machinery
Hydraulic mining
Hydraulic models
Hydraulics
Hydrodynamics
Hydroelectric plants
Intakes
Irrigation
Irrigation canals
Levees
Locks (hydraulic engineering)
Pumping
Pumping machinery
Pumping stations
Pumps
Ranney water collectors
Reservoirs
Rivers—Regulation
Roads—Drainage
Spillways
Stream flow
Stream measurement
Tunnels and tunneling, Subaqueous
Turbines
Water
Water conduits
Water flow
Water supply
Water supply engineering
Waterworks
Wells

History

Development of the science of river measurement hydrology. J. C. Hoyt. bibliog il Civil Eng 12:324-6 Je '42

Tables, calculations, etc.

Energy loss at the base of a free overfall. W. L. Moore. il diags Am Soc C E Proc 67:1697-1714 N '41; Discussion. 68:187-90, 635-49, 1057-66 Ja, Ap, Je '42

Flow at high velocity in a curved rectangular flume; log chute. J. B. Macphail. diag plan Civil Eng 12:158-9 Mr '42

Importance of considering side-wall friction in bed-load investigations. J. W. Johnson. Civil Eng 12:329-31 Je '42

Kinetic energy and momentum correction factors for pipes and for open channels of great width. V. L. Streeter. Civil Eng 12: 212-13 Ap '42

Nomograph for computing elevations of stilling basin aprons. C. Freeman. Civil Eng 12:157-8 Mr '42

Profile curves for open-channel flow. D. F. Gunder. diags Am Soc C E Proc 68:535-42 Ap '42; Discussion. 68:1413-23, 1646-8 O-N '42

Solving reservoir problems with circular point-by-point computer. J. M. Shepley and C. B. Walton. diags Civil Eng 12:154-5 Mr '42

Some observations on dimensional analysis. F. O. Rose. Boston Soc C E J 29:245-63 O '42

Viscosity and surface tension effects on V-notch weir coefficients. A. T. Lenz. bibliog il diags Am Soc C E Proc 68:351-74 Mr '42

See also

Hydraulics—Tables, calculations, etc.

HYDRAULIC excavation

Flume designed for hydraulic excavation. C. E. Nightingale. diag Rock Prod 45:34-5 Je '42

Recovering sand by hydraulicking; Atlanta sand and supply co. il Rock Prod 45:46-8 Je '42

HYDRAULIC filling

Hydraulic fill at Knightville dam. W. L. Maschmeyer. il diags Eng N 127:808-12 D 4 '41

Soils engineering features of Washington national airport construction. B. K. Hough, jr. il plan map Civil Eng 12:84-7 F '42

HYDRAULIC gates. See Gates, Hydraulic

HYDRAULIC jacks

Dislocated bascule rocked into position; use of hydraulic and asphalt jacks. S. J. Michuda. il diags Eng N 128:557-9 Ap 9 '42

Jacking a sewer under a railroad at Warren, Ohio. W. S. Harvey. il diag Eng N 129: 22-4 Jl 2 '42

Weighing reactions of Rainbow bridge, Niagara Falls. J. Jones. diags Civil Eng 11: 730-1 D '41

Welded test jack speeds weld tests. A. F. Davis. il Power 86:342 Ap '42

HYDRAULIC jump

Diagram for hydraulic jump. R. L. Irwin. Civil Eng 12:335 Je '42

Energy loss at the base of a free overfall. W. L. Moore. il diags Am Soc C E Proc 67: 1697-1714 N '41; Discussion. 68:187-90, 635-49, 1057-66 Ja, Ap, Je '42

Entrainment of air in flowing water; closed conduit flow. A. A. Kalinske and J. M. Robertson. il diag Am Soc C E Proc 68:1141-53 S '42

Nomograph for computing elevations of stilling basin aprons. C. Freeman. Civil Eng 12:157-8 Mr '42

HYDRAULIC laboratories

Panama Canal hydraulics laboratory. F. W. Edwards. il plan Civil Eng 12:137-9 Mr '42

HYDRAULIC machinery

Central hydraulic pumping used in Hull-Silk field. T. P. Sanders. il Oil & Gas J 40:41-2 My 7 '42

Design and materials for hydraulic packings. J. N. Smith. il diags Aero Digest 40:119-20, 122 Ap '42

Fluctuations and surges in aircraft hydraulic systems. F. Postlethwaite. Engineering 153:381-2 My 15 '42

Hints on hydraulics. J. Sasso. il Am Mach 86:326-8 Ap 16 '42

Hydraulic cylinders. J. E. Thompson and R. B. Campbell. il diags Product Eng 13:122-7, 274-7 Mr, My '42

Hydraulic dynamometers for aircraft engine testing. E. L. Cline. diags Aero Digest 40: 245-6+ My '42

Hydraulic leakage can be controlled. C. E. Grosser. diags Machine Design 14:70-3 Ag '42

Hydraulic systems; design and maintenance. Product Eng 12:657-9 D '41

HYDRAULIC machinery—*Continued*

Hydraulic vise operated by foot valve pump. il diags Product Eng 13:9 Ja '42

See also

Hydraulic jacks
Hydraulic presses
Hydraulic rams
Hydraulic transmission
Pumps
Turbines
Valves, Hydraulic

Cavitation

Resistance to cavitation erosion; vibratory method of testing metals. R. Beeching. il diags Engineering 153:238-40, 278-80 Mr 20, Ap 3 '42

Sir Charles Parsons and the Royal navy; propeller cavitation studies. S. Goodall. diags Engineer 173:309-10 Ap 10 '42

HYDRAULIC mining

Giants work; hydraulic mining in California; use of blasting. F. L. Elam. il Explosives Eng 20:15-18 Ja '42

Hydraulic mining. J. H. Robertson. diag Can Min J 63:368-70 Je '42

Hydraulic mining; notes in relation to dams, ditches, pipe-lines. J. H. Robertson. il diags Can Min J 62:750-4 N '41

Hydraulicking of Florida phosphate rock. W. J. Rude. Min & Met 22:598 D '41

International's new phosphate mine and recovery plant in the Florida pebble field. A. H. Hubbell. il Eng & Min J 143:47-8 S '42

Power for mining silica. flow diag il diags plan Power Pl Eng 46:68-72 Ap '42

Problems in present-day hydraulicking. J. P. Hutchins. il Min Cong J 28:20-4 Mr '42

See also

Gold dredging
Gold mines and mining—Placer mining

HYDRAULIC models

Conformity between model and prototype; symposium. il diags Am Soc C E Proc 68: 1268-1382 bibliog(57 titles, p1378-81) O '42

Energy loss at the base of a free overfall. W. L. Moore. il diags Am Soc C E Proc 67:1697-1714 N '41; Discussion. 68:187-90, 635-49, 1057-66 Ja, Ap, Je '42

Hydraulic design of drop structures for gully control. B. T. Morris and D. C. Johnson. il diags Am Soc C E Proc 68:17-48 Ja '42; Discussion. 68:650, 812-18 Ap-My '42

Model geyser. J. D. Forrester and H. W. Thune. diag Science 95:204-6 F 20 '42

Model study of tidal currents in East river, New York. L. S. Dillon. il diag maps Civil Eng 12:295-8 Je '42

Model tests on structures for hydroelectric developments. L. M. Davis. il diags plans Am Soc C E Proc 68:543-63; Discussion. 575-9, 1039-40 Ap, Je '42

Bibliography

Model-prototype conformity. Am Soc C E Proc 68:1378-81 O '42

HYDRAULIC presses

Baldwin Southwark double-acting press for drawing 155-millimeter shells. il Mach 48: 161 Ag '42

Baldwin Southwark horizontal hydraulic double-acting draw press. il Mach 48:159 Ag '42

Forging 90-mm. shells on self-contained presses. il Iron Age 149:47-50 Je 18 '42

Hydraulic press for mounting and removing axle-boxes. il Engineer 172:340-1 N 14 '41

Hydraulic stretching press. il Steel 110:102+ My 11 '42; Iron Age 149:75 Je 4 '42; Am Mach 86:685 Je 25 '42; Mach 48:167-8 Je '42

HydrOILic multi-purpose press. il Mach 49: 235 N '42

Hydro-press forming with rubber platens. T. H. Hazlett and W. Schroeder. bibliog il diags Iron Age 149:41-6 Je 18 '42

Interlocked controls reduce explosion hazard; Denison HydrOilic powder-consolidating press. il Product Eng 13:11 Ja '42

Lockheed speeds press work. il Iron Age 149: 75 My 7 '42

New equipment; hydraulic presses for shell forging and gun barrel straightening; for bending, flanging, forging and general assembly work. il Iron Age 150:63-5 Jl 30 '42

New shell piercing press has double turrets. il Iron Age 150:73 S 17 '42

Press that forms and stretches sheet metal. il Comp Air M 47:6826 Ag '42

Rotary indexing press feed. il Steel 110:93+ Ap 20 '42

Six-sided press speeds aircraft production. il Iron Age 149:52-4 F 5 '42

Small power driven hydraulic press. il diag Ry Mech Eng 116:387-8 S '42

Special equipment increases production of high-speed assembly press. il Mach 49:148 O '42

Speeding up deep drawing of aircraft parts; Misfeldt process, Vega airplane company. C. C. Misfeldt. il Aviation 41:64-5+ Mr '42

Stretch-forming speeds aircraft production. F. C. Hoffman. il diags Iron Age 150:68-77 O 1 '42

World's largest drawing press built for producing Liberty ship cowl ventilators. Am Mach 86:916j Ag 20 '42

HYDRAULIC rams

Hydraulic ram cleans condenser tubes fast. diags Elec W 117:1869 My 30 '42

HYDRAULIC research

Conformity between model and prototype; symposium. il diags Am Soc C E Proc 68: 1268-1382 bibliog(57 titles, p 1378-81) O '42

Effects of channel shape on losses in a canal bend. C. H. Yen and J. W. Howe. il Civil Eng 12:28-9 Ja '42

Investigations of the Iowa institute of hydraulic research, 1939-1940; papers, abstracts of theses and research reports, and reference list of staff publications. J. W. Howe, ed. diags Iowa Univ (Iowa City) Studies in Engineering Bul 26:1-56 '41 (pa 40c)

Progress of J. Waldo Smith fellowship; air removal at summit of pipe line. P. H. Bliss. Civil Eng 12:112 F '42

Progress of Society's hydraulic research. J. C. Stevens. il Civil Eng 12:113-14 F '42

Turbulent spreading of a water jet. A. M. Binnie. il Engineering 153:503-4 Je 26 '42

Underflow studies at Lake Issaqueena. J. W. Johnson. il Civil Eng 12:513-16 S '42

See also

Hydraulic laboratories

Bibliography

Model-prototype conformity. Am Soc C E Proc 68:1378-81 O '42

HYDRAULIC transmission

Aircraft hydraulic control and power systems. diags Product Eng 13:656-8 N '42

Borg and Beck fluid transmission. diag Automobile Eng 32:18 Ja '42

Castor oil base hydraulic fluids. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Combustion-gas turbines for locomotives; recent developments, Europe and United States; proposals for hydraulic transmission; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116: 492-3 N '42

Factors affecting maintenance of oil-filled hydraulic systems. P. N. Oberholtzer. il Mach 48:147-50 Mr '42

Fluid drive for mining machinery. J. D. Rosebrough. il diags Min Cong J 27:30-4 D '41

Heavy vehicle propulsion; automatic control on hydraulic drive. il diags Automobile Eng 32:3-6 Ja '42

How to pump power from varying-speed source into constant-frequency system; loading airplane engines while being tested. G. E. Cassidy. diag Gen Elec R 44:590-2 N '41; Same. Aviation 41:88-9 Ap '42; Abstract. Steel 111:62+ D 28 '42

Hydraulic actuation; application to lathe operation; Hydratol lathe. il Automobile Eng 32:186 My '42

Hydraulic couplings for auxiliaries. G. V. Edmonson. diags Power Pl Eng 46:74-5 Ja '42

HYDRAULIC transmission—*Continued*

Hydraulic couplings in a cable-making factory. il diags Engineer 173:165-6 F 20 '42

Hydraulic leakage can be controlled. C. E. Grosser. diags Machine Design 14:70-3 Ag '42

Hydraulic plant in steel works. R. Yeadon. diags Blast F & Steel Pl 30:1003-9 S '42

Hydraulic transmission; fluidgear. diags Automobile Eng 32:363-5 S '42

Medium weight drilling equipment employed in deeper north Texas drilling; hydraulic couplings on Diesel engine shafts. H. L. Flood. il diag Pet Eng 13:30-1 D '41

1942 car design trends. T. A. Bissell. diags S A E J 49:472-4 N '41; Same. Automobile Eng 32:73-5 F '42

1942 gear shift developments. P. M. Heldt. il diags Automotive Ind 85:32-43 D 1 '41

Semi-automatic gear box; the hydra-matic transmission used on Cadillac cars. il diags Automobile Eng 31:443-7 D '41

Some applications of hydraulic operation to machine tools. il diags Mach 47:127-8 Ag; 48:141-3 S; 146-9 D '41

Torque converters applied to drilling and servicing rigs. T. P. Sanders. il Oil & Gas J 41:25-6+ Jl 2 '42

See also

Hydraulic control

HYDRAULICS

Flow of liquids in the critical region. A. H. Nissan. Instruments 15:197-8 Je '42

Hydraulic conditions at approach to a lock and dam; model-prototype conformity. W. J. Hopkins. il diags Am Soc C E Proc 68:1369-77 O '42

Hydraulics. H. W. King, C. O. Wisler and J. G. Woodburn. 4th ed 303p $2.75 Wiley '41

Hydraulics. G. E. Russell. 5th ed 468p $4.25 Holt '42

Hydraulics of steady flow in open channels. S. M. Woodward and C. J. Posey. 151p $2.75 Wiley '41

Hydraulics of the new pressure aqueduct of the metropolitan water district. K. R. Kennison. map Boston Soc C E J 29:1-21 Ja '42

Interesting lock construction; model-prototype conformity. M. E. Nelson and J. J. Hartigan. diags Am Soc C E Proc 68:1301-24 O '42; Discussion. 68:1840-2 D '42

Pipe-line flow of solids in suspension. L. C. Fairbank, jr.; W. E. Wilson. Am Soc C E Proc 67:1421-44 O '41; Discussion. 67:1445-7, 1937-8; 68:480-2 O, D '41, Mr '42

Standards for letter symbols; mechanics and hydraulics. Civil Eng 12:58-61 Ja '42

What and why of the new American standard letter symbols for hydraulics. J. C. Stevens. Ind Stand 13:87-9 Ap '42

See also

Flow meters
Fluids
Hydraulic engineering
Hydrodynamics
Intakes
Liquids
Nozzles
Oil flow
Rivers—Regulation
Silt
Stream flow
Stream measurement
Turbines
Water
Water distribution
Water flow
Wells

Tables, calculations, etc.

Analyzing flow from multiple reservoirs by the Hardy Cross method. J. F. Muir. diags Eng N 128:408-9 Mr 12 '42

Charts solve multiple-reservoir problem. J. A. Novoro. Eng N 129:300-1 Ag 27 '42

Entrainment of air in flowing water; closed conduit flow. A. A. Kalinske and J. M. Robertson. il diag Am Soc C E Proc 68:1141-53 S '42

Entrainment of air in flowing water; open channel flow at high velocities. L. S. Hall. il Am Soc C E Proc 68:1100-40 S '42

Equation of motion for the steady mean flow of water in open channels. G. H. Keulegan. bibliog diags J Research Nat Bur Stand 29:97-111 Jl '42

Flow of solids in piping; practical data on pumping and piping sludges, muds and suspensions. H. E. Babbitt and D. H. Caldwell. bibliog diags Heating-Piping 14:423-7, 491-4 Jl-Ag '42

Nomograph for flow from partially filled pipes. D. S. Davis. Ind & Eng Chem 34:52 Ja '42

Pressure drop calculations for flow in pipes. J. A. Hardy and E. N. Kemler. Heat & Ven 39:43-9 Ag '42

Spillway coefficients at an eastern dam; model-prototype conformity. G. H. Hickox. diag plan Am Soc C E Proc 68:1334-42 O '42

Water: flow, friction, measurement and power. diags Water Works & Sewerage 89:sup 19-28 Je '42

See also

Pumping—Tables, calculations, etc.
Venturi flume

HYDRAZIDES

Synthesis of 5-aminocoumarone-2,3-dicarboxylic acid cyclohydrazide; a heterocyclic analog of 4-aminophthalhydrazide. E. H. Huntress and W. M. Hearon. bibliog Am Chem Soc J 64:86-90 Ja '42

HYDRAZINE

Hydrazines as developing agents. J. S. Friedman. Am Phot 36:38-40 Jl '42

Analysis

Determination of hydrazine; a rapid ferricyanide-ceriometric method. C. J. Dernbach and J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:58-60 Ja 15 '42

New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

HYDRAZINIUM compounds. See Hydrazonium compounds

HYDRAZOBENZENE

Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42

HYDRAZOIC acid

Reactions of hydrazoic acid. L. H. Briggs, G. C. De Ath and S. R. Ellis. Chem Soc J p61-3 Ja '42

Structures of nitrous oxide and of hydrogen azide. V. Schomaker and R. Spurr. bibliog Am Chem Soc J 64:1184-7 My '42

HYDRAZONIUM compounds

Crystal structure of hydrazinium difluoride. M. L. Kronberg and D. Harker. il diags J Chem Phys 10:309-17 Je '42

HYDRIDES

See also

Potassium hydride

HYDRIODIC acid

Determination of alkoxyl groups in cellulose ethers. E. P. Samsel and J. A. McHard. bibliog il diags Ind & Eng Chem Anal ed 14:750-4 S 15 '42

Van der Waals sorption of gaseous hydrogen chloride, hydrogen bromide, and hydrogen iodide by silica gel. L. H. Reyerson and C. Bemmels. J Phys Chem 46:35-42 Ja '42

HYDROBENZOIN

Bimolecular reduction of hindered aldehydes. R. C. Fuson and others. bibliog Am Chem Soc J 64:30-3 Ja '42

HYDROBROMIC acid

Ketene acetals; the elimination of hydrogen bromide from the acetals of α-bromoaldehydes; isopropyl- and *n*-propylketene diethylacetal. S. M. McElvain, R. L. Clarke and G. D. Jones. bibliog Am Chem Soc J 64:1966-9 Ag '42

Van der Waals sorption of gaseous hydrogen chloride, hydrogen bromide, and hydrogen iodide by silica gel. L. H. Reyerson and C. Bemmels. J Phys Chem 46:35-42 Ja '42

HYDROCARBONS

Activated carbon from hydrocarbons and chlorine. G. W. Stratton and D. E. Winkler. bibliog diag Ind & Eng Chem 34:603-6 My '42

Addition of hydrogen to multiple carbon-carbon bonds. K. N. Campbell and B. K. Campbell. Chem R 31:77-175 bibliog(366 references, p167-75) Ag '42

Alcohol from petroleum hydrocarbons. W. L. Nelson. Oil & Gas J 41:40 Jl 23 '42

Carboxylation; the peroxide-catalyzed reaction of oxalyl chloride with the side-chains of aralkyl hydrocarbons; a preliminary study of the relative reactivity of free radicals. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:1621-4 Jl '42

Carboxylation; the reaction of oxalyl chloride with unsaturated hydrocarbons. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:333-4 F '42

Catalytic chemistry in World war II; developments centre in petroleum technology. H. S. Taylor. Can Chem & Process Ind 26:339-40 Je '42

Cetane numbers and physical properties of normal alkyl benzenes and other hydrocarbons; evaluation of *n*-alkyl benzenes and certain related hydrocarbons as Diesel fuels. T. Y. Ju, C. E. Wood and F. H. Garner. Inst Pet J 28:159-71 Ag '42

Conversion of coal by hydrogenation described as a future source of hydrocarbon products. bibliog il Nat Pet N 34 pt2:R208-9 Jl 29 '42

Corona discharge on liquid dielectrics; materials responsible for increases in power factor. J. Sticher and J. D. Piper. bibliog diag Ind & Eng Chem 33:1567-74 D '41

Correlating vapor pressure and latent heat data; use of critical constants. D. F. Othmer. Ind & Eng Chem 34:1072-8 S '42

Cracking of petroleum hydrocarbons. L. J. Willien. Gas Age 90:13-14+ N 5 '42

Cyclisation of hydrocarbons; abstract. S. W. Green and A. W. Nash. Chem & Ind 60:801 N 8 '41

Densities of liquefied petroleum gases. bibliog diags Ind & Eng Chem 34:1240-3 O '42

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

Effect of ultraviolet light on polycyclic hydrocarbons in sterol surface film systems. W. W. Davis, M. E. Krahl and G. H. A. Clowes. Science 94:519-20 N 28 '41

Gasoline miracles; higher octane aviation fuels. S. J. French. Sci Am 166:167-70 Ap '42

Halogenation of aliphatic hydrocarbons. G. Egloff and M. Alexander. bibliog Oil & Gas J 41:41-2+ Ag 20; 39-40+ Ag 27; 34-7 S 3; 42+ S 10 '42

Higher hydrocarbons; five 11-substituted heneicosanes. F. C. Whitmore and others. Am Chem Soc J 64:1801-3 Ag '42

Higher hydrocarbons; seven alkyl substituted docosanes. F. C. Whitmore, L. H. Sutherland and J. N. Cosby. bibliog Am Chem Soc J 64:1360-4 Je '42

Hydrocarbon hydrates. I. C. Bechtold. bibliog Oil & Gas J 40:193-4+ Ap 30 '42; Same. Pet Eng 13:57, 60, 62, 64 Ap '42; Abstract. Chem & Met Eng 49:136-7 My '42

Hydrocarbon polymers. V. E. Yarsley. Electrician 128:164-6 F 27 '42

Hydrocarbon solvents from petroleum and their industrial applications. F. N. Harrap and E. B. Evans. flow sheet diags Inst Pet J 27:369-98; Discussion. 399-401 N '41

Hydrocarbon-water solubilities at elevated temperatures and pressures. J. Griswold and J. E. Kasch. bibliog Ind & Eng Chem 34:804-6 Jl '42

Infra-red spectra of hydrocarbons; some investigations of the temperature dependence of absorption bands. W. H. Avery and C. F. Ellis. diag J Chem Phys 10:10-18 Ja '42

Interaction of slow neutrons with nuclei. H. Carroll. bibliog diags Phys R 60:702-9 N 15 '41

Intermolecular forces and mechanical behavior of high polymers. H. Mark. bibliog(73 references) Ind & Eng Chem 34:1343-8 N '42

Isomerization of pure hydrocarbons. G. Egloff, G. Hulla and V. I. Komarewsky. 499p bibliog(p461-73) $9 Reinhold pub. corp. '42

Isomerization of unsaturated hydrocarbons. E. Bergmann. Chem R 29:529-51 bibliog (p548-51) D '41

Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42

Methods of preparing butadiene. G. Egloff and G. Hulla. Oil & Gas J 41:40-1, 43 N 5; 228-33 N 12 '42 (to be cont)

Mobilizing petroleum hydrocarbons. G. F. Fitzgerald. bibliog il diag Chem & Met Eng 49:83-7 Mr '42

Molal volume nomographs for aliphatic hydrocarbons. D. S. Davis. Ind & Eng Chem 34:351 Mr '42

Molal volumes of aliphatic hydrocarbons at their melting points. G. Egloff and R. C. Kuder. bibliog J Phys Chem 46:296-304 F '42

Natural gas cycling industry expands with valuable by-products. F. H. Dotterweich. bibliog il Am Gas J 156:40-1+ My '42

Natural gas derivatives can be converted into wide range of wartime chemicals. G. Egloff. il Nat Pet N 34 pt 2:R343-7 O 28 '42

Nitration of aliphatic hydrocarbons. G. Egloff, M. Alexander and P. M. Van Arsdell. bibliog Oil & Gas J 41:39-41+ O 15; 49+ O 22 '42

Oxidation characteristics of pure hydrocarbons. R. G. Larsen, R. E. Thorpe and F. A. Armfield. il diag Ind & Eng Chem 34:183-93 F '42

Oxidation of aliphatic hydrocarbons. G. Egloff, D. V. Nordman and P. M. Van Arsdell. bibliog Oil & Gas J 41:207-10 S 24; 35-6 O 1; 49, 51-3 O 8 '42

Phase equilibria at high temperatures. R. R. White and G. G. Brown. flow diag bibliog diags Ind & Eng Chem 34:1162-74 O '42; Same. Nat Pet N 34 pt 2:R374, R376-8, R380-1, R342-5 O 28, N 25 '42

Phase equilibria in hydrocarbon systems; composition of the dew-point gas of the methane-water system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1223-7 O '42

Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42

Phase equilibria in hydrocarbon systems; thermodynamic properties of *n*-pentane. B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:730-7 Je '42

Physical constants of low boiling-point hydrocarbons. R. Matteson and W. S. Hanna. Oil & Gas J 41:33-7 bibliog(121 references, p36-7) My 21 '42

Physical constants of the principal hydrocarbons. M. P. Doss, comp. 3d ed 215p bibliog(p193-203) priv ptd Texas co, 135 E. 42d st, New York '42

Position of two alicyclic hydrocarbons in the acidity series. R. D. Kleene and G. W. Wheland. bibliog Am Chem Soc J 63:3321-2 D '41

Pressure drop in the flow of compressible fluids. W. E. Lobo, L. Friend and G. T. Skaperdas. Ind & Eng Chem 34:821-3 Jl '42

P-V-T-x relations of the system propane-isopentane. W. E. Vaughan and F. C. Collins. bibliog Ind & Eng Chem 34:885-90 Jl '42

Production of acetylene by thermal cracking of petroleum hydrocarbons. R. L. Hasche. bibliog il diags Chem & Met Eng 49:78-83 Jl '42

Progress report on the hydrocarbons in the kerosine fraction of petroleum. F. D. Rossini and B. J. Mair. bibliog diags Am Pet Inst Proc 22(3):7-12 '41; Same. Oil & Gas J 40:129, 131-2 N 6 '41

HYDROCARBONS—*Continued*

Pro-oxidant properties of some carcinogenic hydrocarbons. E. B. Lisle. Soc Chem Ind J 61:148 S '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; phenyl substituted olefins and acetylenes. H. A. Laitinen and S. Wawzonek. bibliog Am Chem Soc J 64:1765-8 Ag '42

Research on properties of hydrocarbons; abstracts of papers at fall meeting of Petroleum division, American chemical society. Nat Pet N 34 pt 2:R320+ S 30 '42

Second virial coefficients and the forces between complex molecules. J. O. Hirschfelder, F. T. McClure and I. F. Weeks. bibliog J Chem Phys 10:201-11 Ap '42

Solubility of carcinogenic and related hydrocarbons in water. W. W. Davis, M. E. Krahl and G. H. A. Clowes. bibliog Am Chem Soc J 64:108-10 Ja '42

Specific dispersion of pure hydrocarbons. R. E. Thorpe and R. G. Larsen. bibliog(72 references) Ind & Eng Chem 34:853-63 Jl '42

Specific volumes and phase-boundary properties of separator-gas and liquid-hydrocarbon mixtures. K. Eilerts and R. V. Smith. il diags U S Bur Mines Rep of Invest 3642: 1-57 '42

Studies of the physical properties of alicyclic hydrocarbons; molal volumes of monoalicyclic hydrocarbons at 20°C. G. Egloff and R. C. Kuder. bibliog J Phys Chem 46:281-95 F '42

Synthesis and properties of hydrocarbons of high molecular weight. J. N. Cosby and L. H. Sutherland. bibliog il Am Pet Inst Proc 22(3):13-23 '41; Excerpt. Oil & Gas J 40:77-8 N 6 '41; Discussion. Am Pet Inst Proc 22(3):24 '41

Synthesis of known hydrocarbons in petroleum. W. L. Faith. bibliog Pet Eng 13:96, 99, 102+ My '42

Synthetic elastomers; how molecules are manipulated to make new rubber-like materials. S. J. French. Sci Am 167:10-13 Jl '42

Thermal properties of a wet gas. G. G. Brown and F. Kurata. Pet Eng 13:23-8 D '41

Thermodynamic properties of light hydrocarbons. D. E. Holcomb and G. G. Brown. bibliog diags Ind & Eng Chem 34:590-602 My '42

Thermodynamics in isomerization. P. Buthod and W. L. Nelson. Oil & Gas J 40:120-1 Mr 26 '42

Using waste hydrocarbons; preparation of hydrogen; abstract. Rakovski and Burinova. Chem Age (Lond) 67:264 S 19 '42

Vapor-pressure chart for volatile hydrocarbons. R. V. Smith. bibliog(48 titles) U S Bur Mines Information Circ 7215:1-10 '42

See also

Acetylene
Benzene
Butane
Decalin
Ethane
Heptane
Hexane
Methane
Naftolen
Naphthalene
Olefins
Paraffins
Petroleum
Petroleum refining
Propane
Propylene
Styrene
Terphenyl
Toluene
Wurtz reaction

Analysis

Determination of butadiene stock for rubber manufacture. diags Oil & Gas J 40:41+ Ja 22 '42

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42

Determination of mixed aniline points of hydrocarbon solvents. B. H. Shoemaker and J. A. Bolt. Ind & Eng Chem Anal ed 14: 200-1 Mr 15 '42

Determination of olefins in gaseous hydrocarbons. B. R. Stanerson and H. Levin. bibliog diags Ind & Eng Chem Anal ed 14: 782-4 O 15 '42

Estimation of aliphatic C—H content of toluene through its infrared absorption. R. C. Gore and J. B. Patberg. bibliog Ind & Eng Chem Anal ed 13:768-71 N 15 '41

Identification of organic compounds; chlorosulfonic acid as a reagent for identification of alkylbenzenes. E. H. Huntress and J. S. Autenrieth. Am Chem Soc J 63:3446-8 D '41

Methods of light hydrocarbon analysis. J. J. Savelli, W. D. Seyfried and B. M. Filbert. bibliog diags Ind & Eng Chem Anal ed 13:868-79 D 15 '41

Micromethod for identification of volatile liquids; vapor pressure, boiling point, and olefin content of cyclobutane and *cis*-2-butene. S. W. Benson. bibliog diag Ind & Eng Chem Anal ed 14:189-91 F 15 '42

Qualitative and quantitative analysis of hydrocarbon mixtures by means of their Raman spectra. D. H. Rank, R. W. Scott and M. R. Fenske. bibliog il Ind & Eng Chem Anal ed 14:816-19 O 15 '42

Semiautomatic fractionation; a rapid analytical method. B. Ferguson, jr. il diag Ind & Eng Chem Anal ed 14:493-6 Je 15 '42

Some observations on the oxidation and determination of the molecular weight of polynuclear aromatic compounds. W. P. Campbell, M. D. Soffer and T. R. Steadman. bibliog Am Chem Soc J 64:425-8 F '42

Specific dispersion of pure hydrocarbons. R. E. Thorpe and R. G. Larsen. bibliog(72 references) Ind & Eng Chem 34:853-63 Jl '42

Turbidimetric determination of polymerized hydrocarbons in solution. B. Ferguson, jr. and M. D. Snyder. Ind & Eng Chem Anal ed 14:135 F 15 '42

Type analysis of hydrocarbon oils. R. M. Deanesly and L. T. Carleton. bibliog Ind & Eng Chem Anal ed 14:220-6 Mr 15 '42

HYDROCARBONS, Aromatic

Action of aluminum chloride on aromatic hydrocarbons; the polyethylbenzenes and tetramethylbenzenes. D. Nightingale and F. Wadsworth. bibliog Am Chem Soc J 63: 3514-17 D '41

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33: 1540-4 D '41

Paper dielectrics containing chlorinated impregnants; deterioration in d.c. fields. D. A. McLean and others. bibliog il Ind & Eng Chem 34:101-9 Ja '42

Polycyclic aromatic hydrocarbons; dibenzfluorenes. R. H. Martin. Chem Soc J p679-85 O '41

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; aromatic polynuclear hydrocarbons. S. Wawzonek and H. A. Laitinen. bibliog Am Chem Soc J 64: 2365-8 O '42

Some observations on the oxidation and determination of the molecular weight of polynuclear aromatic compounds. W. P. Campbell, M. D. Soffer and T. R. Steadman. bibliog Am Chem Soc J 64:425-8 F '42

See also

Anthracene
Benzene
Decalin
Naphthalene

HYDROCHLORIC acid

Absorption of hydrogen chloride. F. L. Hunter. il diags Am Inst Chem Eng Trans 37: 741-60 O '41; Abstract. Can Chem & Process Ind 26:79-80+ F '42; Discussion. Am Inst Chem Eng Trans 37:760-2 O '41

Acid bath cleans dirty insulators coated with cement dust. il Elec W 117:1700+ My 16 '42

Acid treatment quadruples flow in a war plant water well. il diags Eng N 129:232-4 Ag 13 '42

American institute of chemical engineers; student contest problem for 1942; plant for manufacture of aniline oil by the iron-hydrochloric acid reduction process; with prize winning paper by C. C. Neas. flow sheet bibliog Am Inst Chem Eng Trans 38: 653-718 Ag '42

HYDROCHLORIC acid—*Continued*

Apparent degree of ionization of hydrochloric, sulfuric, and acetic acids; an electrolytic conductivity experiment for general chemistry. L. E. West and A. Gahler. diag J Chem Educ 19:366-8 Ag '42

Cleaning encrusted pipe lines and vacuum filters by use of inhibited muriatic acid. K. L. Mick. Water Works & Sewerage 89: 314 Jl '42

Cleavage of arylazo-β-naphthylamines by alcoholic hydrochloric acid. H. H. Hodgson and C. K. Foster. Chem Soc J p755-7 N '41

Coconut shell charcoal; effect of concentration of zinc chloride and of hydrochloric acid on activity. L. Ts'ai and K. Chuang. Ind & Eng Chem 34:812-13 Jl '42

Cotton pulps; modification by oxidizing and hydrolyzing agents. D. M. Musser and H. C. Engel. bibliog Paper Tr J 114:29-31 Ap 9 '42

Effect of hydrochloric acid plus inhibitor on the corrosion resistance of 18/8 stainless steel. H. H. Uhlig and E. M. Wallace. Electrochem Soc Trans 81 (preprint 25): 381-90 Ap '42

Effect of the inhalation of hydrogen chloride. W. Machle and others. diag J Ind Hygiene 24:222-5 O '42

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Formal oxidation-reduction potentials of thallous-thallic salts in aqueous hydrochloric acid solutions; formation of chlorothallate complex ions. R. H. Hughes and C. S. Garner. bibliog diag Am Chem Soc J 64: 1644-8 Jl '42

Molal volumes of solutes; potassium chlorate and hydrochloric acid. O. Redlich and J. Bigeleisen. bibliog Am Chem Soc J 64: 758-60 Ap '42

Partial pressure of hydrogen chloride from its solutions in β,β′-dichloroethyl ether and in anisole and the calculation of the heat and entropy of solution. S. J. O'Brien. bibliog Am Chem Soc J 64:951-3 Ap '42

Preparation of constant boiling hydrochloric acid; rate of approach to equilibrium. A. C. Titus and D. E. Smith. Am Chem Soc J 63:3266-7 D '41

Reaction between periodate oxidized starch and methanol containing hydrogen chloride. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:589-93 Mr '42

Solubility relations of mercuric oxide in aqueous solutions of hydrogen chloride. A. B. Garrett and J. Lemley. bibliog Am Chem Soc J 64:2380-3 O '42

Strong acid gives encouraging results in west Texas wells. H. F. Simons. Oil & Gas J 41:37-8 Ag 13 '42

Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

Systems with boron trifluoride. H. S. Booth and D. R. Martin. bibliog diags Am Chem Soc J 64:2198-205 S '42

Van der Waals sorption of gaseous hydrogen chloride, hydrogen bromide, and hydrogen iodide by silica gel. L. H. Reyerson and C. Bemmels. J Phys Chem 46:35-42 Ja '42

Weak acid gives good results in north central Texas wells. H. F. Simons. Oil & Gas J 41:37-8 Ag 27 '42

Deuterium chloride

Convenient procedure for the preparation of deuterium chloride. H. C. Brown and C. Groot. bibliog diag Am Chem Soc J 64:2223-4 S '42

Manufacture

Anhydrous hydrogen chloride gas; review of methods of production. A. H. Maude. bibliog flow diag il diag Am Inst Chem Eng Trans 38:865-82 Ag '42; Same. Chem Ind 51:348-54 S '42; Abstract. Chem & Eng N 20:661-2 My 25 '42

HYDROCHLORIDES

Determination of the activity coefficients of the methylamine hydrochlorides from freezing point data. J. H. Jones, F. J. Spuhler and W. A. Felsing. bibliog diag Am Chem Soc J 64:965-8 Ap '42

Local anesthetics; β-monoalkylaminoethyl esters of alkoxybenzoic acids. J. S. Pierce, J. M. Salsbury and J. M. Fredericksen. Am Chem Soc J 64:1691-4 Jl '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides and acetates of dodecyl- and octadecylamines. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. Am Chem Soc J 64:97-101 Ja '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64: 772-6 Ap '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine hydrochlorides. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:498-503 Mr '42

HYDROCYANIC acid

Kinetics of the thermal reaction between hydrogen and cyanogen. N. C. Robertson and R. N. Pease. bibliog Am Chem Soc J 64:1880-6 Ag '42

Production of hydrogen cyanide and ammonia from coal gas in a high frequency arc; abstract. E. Briner and H. Hoefer. Chem & Met Eng 49:154 Mr '42

Structure of hydrogen cyanide. C. R. McCrosky, F. W. Bergstrom and G. Waitkins. Am Chem Soc J 64:722-4 Mr '42

HYDRODYNAMICS

Energy loss at the base of a free overfall. W. L. Moore. il diags Am Soc C E Proc 67:1697-1714 N '41; Discussion. 68:187-90, 635-49, 1057-66 Ja, Ap, Je '42

Future of water-based airplanes. F. T. Courtney. il diags Aviation 41:122-3+ O; 122-3+ N '42

Hydrodynamics of model storm sewer inlets applied to design. G. S. Tapley. il diags Am Soc C E Proc 68:375-409 Mr '42; Discussion. 68:1262-3, 1815-22 S, D '42

Resistance to the uniform motion of a solid through a viscous liquid; reply to J. T. Burwell, jr. R. B. Block. bibliog J Ap Phys 13:56-65 Ja '42

Some vortex theorems of hydrodynamics. M. M. Munk. J Aeronautical Sci 9:90-6 Ja '42

Supersonic absorption and Stokes' viscosity relation. L. Tisza. bibliog Phys R 61:531-6 Ap 1 '42

See also

Aerodynamics
Compressibility
Gas flow
Hydraulics
Viscosity
Water flow

HYDROELECTRIC plants

More waterpower facilities needed; abstract. L. Olds. Eng N 128:590 Ap 16 '42

See also

Colorado river—Boulder Dam project
Dams
Hydroelectric power
Penstocks
Turbines

Combination with steam plants

Emergency program of the TVA. T. B. Parker. il map Eng N 127:866-70 D 18 '41

Industrial-plant operators share tie-in experience. diags plan Power 86:624-7 S '42

Northwest utility operating coordination; interconnected network meets dry-year emergency. L. B. Cowgill. Elec West 88:51-4 Ap '42

Old Tacoma steam plant placed in operation. Elec W News ed 116:1647 N 22 '41

Progress of TVA power program. H. Wiersema. il map Civil Eng 12:77-80 F '42

TVA's Watts Bar steam plant augments hydro power for war production; high pressure steam piping. H. J. Petersen. il diags Heating-Piping 14:283-6 My '42

HYDROELECTRIC plants—Combination with steam plants—*Continued*

Water power and fuel economy; hydro-electricity to save coal-produced energy. diag Electrician 129:38 Jl 10 '42

Watts Bar steam design simple, direct, economical. R. A. Hopkins. diags map plan Elec W 117:474-7 F 7 '42

Watts Bar steam power station of the TVA. G. R. Rich and R. T. Mathews. diags plan map Mech Eng 63:773-9 N '41; Abstract. Power 85:843-4 N '41; Discussion. G. E. Morgan. Mech Eng 64:313-14 Ap '42

Construction

Apalachia project of the TVA; dam, conduit and penstock. C. H. Vivian. il map Comp Air M 47:6723-32 My '42

Asphalt cutoff wall at Claytor dam; sand-asphalt mix used to stop underflow. H. S. Slocum. il diag Eng N 128:490-2 Mr 26 '42

Hydro now one of Canada's largest earthmovers. il Roads & Bridges 80:28-9+ S '42

Control

Gate-lift control holds constant head; Grandfathers Falls hydro station. M. E. Reagan. il diag Elec W 117:842 Mr 7 '42

Cost

Davis dam and powerhouse, Arizona-Nevada; unit prices. Eng N 128:1027-8 Je 18 '42

Powerhouse superstructure, surge tanks, Fort Peck dam; unit prices. Eng N 128:360 F 26 '42

Sets original cost of Puget project. Elec W News ed 118:538 Ag 15 '42

Design

Claytor hydroelectric power plant. P. Sporn and H. A. Kammer. il diags plan Engineering 152:421-4, 441-3 N 28-D 5 '41

Grand Coulee firms Columbia River hydro. I. A. Winter and S. M. Denton. il diags Elec W 117:988-90 Mr 21 '42

Model tests on structures for hydroelectric developments. L. M. Davis. il diags plans Am Soc C E Proc 68:543-63; Discussion. 575-9 Ap '42

Santee diverted to Cooper for tidewater hydro. L. H. Hardin. il diag plans map Elec W 117:56-8 Ja 10 '42

See also
Electric substations—
Design

Equipment

Grand Coulee; power plant, turbines, generators, etc.; its story in pictures and diagrams. Elec West 87:36-42 N '41

Hydro for aluminum, highest head in East; Glenville and Natahala plants. J. E. Housley. il diags map Elec W 116:1560-2 N 15 '41

Master craftsmen erect Grand Coulee. il Power 86:36 Ja '42

New speed indicator for hydro generators. E. P. Bryant. il diag Elec W 118:948 S 19 '42

Water level regulates generator load; Grandfather Falls hydroelectric plant. diag Elec W 117:1702 My 16 '42

See also
Turbines

Government ownership

Central Valley rounds into shape. T. L. North. Pub Util 30:551-8 O 22 '42

Fight for the control of public power; controversy revolving around control and management of Bonneville and Grand Coulee projects. A. Barnes. Pub Util 29:750-3 Je 4 '42

More funds requested for hydro power projects. Elec W News ed 117:740 F 29 '42

Public power row; proposals to place the federal hydroelectric projects into the hands of a single administrator responsible to the Secretary of interior. A. Barnes. Pub Util 29:288-93 F 26 '42

WPB further curtails Federal Power projects. il Elec W 118:1453 O 31 '42

See also
Colorado river—
Boulder Dam project
Columbia river—
Bonneville dam
Columbia river—
Grand Coulee dam
Tennessee Valley authority

Irrigation water use

Argentine power schemes; three irrigation and hydro-electric projects in Cordoba. Elec R (Lond) 131:238 Ag 21 '42

Five irrigation projects supply a million kilowatts. H. L. Ickes. Power 86:691c+ S '42

Maintenance and repair

Trash rack welded in one-half time. G. A. Peabody. il Elec W 117:2237 Je 27 '42

Protection

Sandtrap reduces hydro maintenance. L. R. Brown. diag Elec W 117:851 Mr 7 '42

Trash rack welded in one-half time. G. A. Peabody. il Elec W 117:2237 Je 27 '42

Valve closure assured if penstock fails; Pacific gas & electric company hydro plants. E. A. Crellin. il diag Elec W 118:928-9 S 19 '42

Reconstruction

Pioneer hydro plant modernized; Moline water power co. il diags plan map Power Pl Eng 46:62-4 Ja '42

Small plants

Capacitors increase generating capacity. H. M. Myers. Elec W 118:478+ Ag 8 '42

Power from streams; investigating small hydro-electric schemes. J. L. Gaved. diags Elec R (Lond) 130:691-2 My 29 '42

Trash racks

See Hydroelectric plants—Protection

Alabama

FPC orders cut in property valuation; Jordan Dam power development of the Alabama power co. Eng N 128:591 Ap 16 '42

Argentina

Argentine power schemes; three irrigation and hydro-electric projects in Cordoba. Elec R (Lond) 131:238 Ag 21 '42

British Columbia

Powell River company's new dam. F. H. Fullerton. il Pulp & Pa of Can 43:359-61 Ap '42

California

Central Valley rounds into shape. T. L. North. Pub Util 30:478-86, 551-8 O 8-22 '42

Welding and testing Shasta penstocks. G. L. Yetter. il Eng N 128:542-5 Ap 9 '42

See also
Central Valley project, California

Canada

Canadian hydro-electric development. Engineering 153:152 F 20 '42

Canadian Hydro total approaches 9,000,000 hp. Elec W News ed 117:9 Ja 3 '42

Canadian power survey. Elec R (Lond) 130:202 F 13 '42

Canadian water power; development and progress in 1941. Electrician 128:470-1 My 15 '42

Electricity in Canada; hydro-electric progress during 1941. Electrician 128:173-4 F 27 '42

Hydroelectric power in Canada; annual review. Mech Eng 64:229 Mr '42

Hydro-electric progress in Canada during 1941. Pulp & Pa of Can 43:860 O '42

Congo, Belgian

Congo construction; how American missionary used his college training as engineer to build hydroelectric plant. Gen Elec R 45:468 Ag '42

HYDROELECTRIC plants—*Continued*

France

Hydro programs in France. For Comm W 7:18-19 Je 13 '42

India

Mysore water-power; Gersoppa Falls scheme. Elec R (Lond) 131:201 Ag 14 '42

Ireland

Liffey scheme; abstract. L. J. Kettle. Elec R (Lond) 129:402 O 17 '41

Mexico

Mexico's newest hydroelectric plant. For Comm W 9:10 O 3 '42

Moline, Illinois

Pioneer hydro plant modernized; Moline water power co. il diags plan map Power Pl Eng 46:62-4 Ja '42

New Zealand

New Zealand's power resources; possible large hydro-electric developments. F. T. M. Kissel. Elec R (Lond) 130:176 F 6 '42

North Carolina

More power for bomber production; two dams being constructed by the Aluminum company of America. il diag Eng N 128:334-7 F 26 '42

More power for defense; Aluminum company of America, Glenville hydroelectric project. il Manuf Rec 110:36-7+ N '41

Oklahoma

Government ousts state from Oklahoma project; Federal agency takes over Grand River development. Elec W 116:1729 N 29 '41

Oklahoma dam taken over by U.S. Comm & Fin Chr 154:1208 N 27 '41

Ontario

Hydro now one of Canada's largest earth-movers. il Roads & Bridges 80:28-9+ S '42

South Carolina

Clearing the Santee-Cooper. il Power Pl Eng 46:78-81 S '42

Santee diverted to Cooper for tidewater hydro. L. H. Hardin. il diag plans map Elec W 117:56-8 Ja 10 '42

Switzerland

War and drought force Swiss hydro expansion. Power Pl Eng 46:57 F '42

Tasmania

Supply in Tasmania; Hydro-electric commission report for year 1940-41. Electrician 128:424-5 My 1 '42; Elec R (Lond) 130:604 My 8 '42

Tennessee valley

Progress of TVA power program. H. Wiersema. il map Civil Eng 12:77-80 F '42

TVA's war might; system is engaging in manufacture of munitions. map Business Week p24, 27 Ap 11 '42

United States

Power dominates river development in 1941. H. W. Richardson. il map Eng N 128:101-4 Ja 15 '42

Virginia

Asphalt cutoff wall at Claytor dam; sand-asphalt mix used to stop underflow. H. S. Slocum. il diag Eng N 128:490-2 Mr 26 '42

Claytor hydroelectric power plant. P. Sporn and H. A. Kammer. il diags plan Engineering 152:421-4, 441-3 N 28-D 5 '41

Washington (state)

Grand Coulee and Bonneville power in the national war effort. V. M. Murray. J Land & Pub Util Econ 18:134-9 My '42

Grand Coulee firms Columbia River hydro. I. A. Winter and S. M. Denton. il diags Elec W 117:988-90 Mr 21 '42

Grand Coulee; power plant, turbines, generators, etc.; its story in pictures and diagrams. Elec West 87:36-42 N '41

Plant changes increase capacity, energy output; Washington water power co. Elec W News ed 117:1995 Je 6 '42

Western states

Current and future power development on Bureau of reclamation projects; tabulation. Elec West 88:51 F '42

HYDROELECTRIC power

Water-power and the production of metals. W. T. Halcrow. Engineering 153:458-9, 464, 484-6 Je 5-19 '42; Same cond. Engineer 173:423-5, 443-4 My 22-29 '42; Abstract. Elec R (Lond) 130:655-6 My 22 '42

Water power for war; west portal of 13-mile Continental Divide tunnel, key link in Colorado-Big Thompson project. T. L. Wells. il diag map Explosives Eng 20:204-11 Jl '42

See also

Colorado river—Boulder Dam project
Columbia river—Bonneville dam
Columbia river—Power utilization
Hydroelectric plants
St Lawrence waterway and power project

HYDROFLUORIC acid

Action of hydrogen fluoride, sulfuric acid and phosphoric acid on optically active 2-butanol. R. L. Burwell, jr. bibliog Am Chem Soc J 64:1025-31 My '42

Addition of hydrogen fluoride to the triple bond. A. V. Grosse and C. B. Linn. bibliog diag Am Chem Soc J 64:2289-92 O '42

Alkylation of benzene in the presence of acid catalysts. R. L. Burwell, jr. and S. Archer. bibliog Am Chem Soc J 64:1032-4 My '42

Anhydrous hydrofluoric acid; properties as an alkylation catalyst. Nat Pet N 34 pt 2: R366-8 O 28 '42

Formation of complex fluorides in anhydrous liquid hydrogen fluoride; sodium fluocolumbates. A. W. Laubengayer and C. G. Polzer. bibliog Am Chem Soc J 63:3264-6 D '41

Hydrogen fluoride as a condensing agent; reactions of carbon monoxide. J. H. Simons and A. C. Werner. Am Chem Soc J 64:1356-7 Je '42

Kinetics of the hydrogen fluoride catalyzed reaction between toluene and *t*-butyl chloride. J. W. Sprauer and J. H. Simons. diag Am Chem Soc J 64:648-59 Mr '42

More alkylate; development of process for use of HF for airplane fuel. Business Week p65-6 O 24 '42

New chemical method of reducing the reflectance of glass. F. H. Nicoll. bibliog il RCA R 6:287-301 Ja '42

Potential use of hydrogen fluoride in organic chemical processes. J. H. Simons. bibliog il Ind & Eng Chem 32:178-83 F '40; Excerpts. Nat Pet N 34:R174-5 My 27 '42

See supply of aviation gasoline enlarged through hydrofluoric acid alkylation. diag Nat Pet N 34:R131-2 Ap 29 '42

Synthetic rubber and 100-octane gasoline; abstract. J. H. Simons. Science 96:sup8 Jl 17 '42

HYDROFLUOSILICIC acid. See Fluosilicic acid

HYDROFOILS

Future of water-based airplanes. F. T. Courtney. diags Aviation 41:122-3+ O '42

HYDROFORMING process

Hydroforming process now used on commercial scale. M. H. Arveson. Oil & Gas J 40:53 Ja 15 '42

HYDROGEN

Angular distribution of current from a point in hydrogen. W. H. Bennett. diags Phys R 61:53-6 Ja 1 '42

Associating effect of the hydrogen atom; the N-H-N bond; benziminazoles, glyoxalines, amidines, and guanidines. L. Hunter and J. A. Marriott. Chem Soc J p777-86 N '41

HYDROGEN—*Continued*

Associating effect of the hydrogen atom; the N-H-N bond; the constitution of the benztriazoles. T. G. Heafield and L. Hunter. Chem Soc J p420-2 Jl '42
Associating effect of the hydrogen atom; the N-H-N bond; virtual tautomerism of the formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p820-3 D '41
Determination of Beattie-Bridgeman constants from critical data. F. W. Brown. Ind & Eng Chem 33:1536-7 D '41
Hydrogen from lignite; other products from char produced by low temperature carbonization. W. B. Pratt. Min Cong J 28:16-17 Mr '42
Kinetics of the thermal reaction between hydrogen and cyanogen. N. C. Robertson and R. N. Pease. bibliog Am Chem Soc J 64:1880-6 Ag '42
Lignite a source of hydrogen. F. Thone. Science 95:sup8 Mr 27 '42
Loss of energy of hydrogen ions in traversing various gases. C. M. Crenshaw. diags Phys R 62:54-7 Jl 1 '42
Mean life of neutrons in water and the hydrogen capture cross section. J. H. Manley, L. J. Haworth and E. A. Luebke. bibliog Phys R 61:152-5 F 1 '42
Measuring moisture in bone dry hydrogen. P. R. Kalischer. Metal Prog 42:233 Ag '42
Mechanical concentration of gases. C. G. Maier. bibliog diags U S Bur Mines Bul 431:1-148; pa 20c Supt. of doc. '40
Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42
Mechanism of processes initiated by excited atoms; the quenching of excited sodium. K. J. Laidler. bibliog J Chem Phys 10:34-42 Ja '42
Mechanism of the catalytic conversion of para-hydrogen on nickel, platinum and palladium. A. Farkas and L. Farkas. bibliog Am Chem Soc J 64:1594-9 Jl '42
Mechanism of the thermal reaction between hydrogen and oxygen. G. von Elbe and B. Lewis. bibliog diag J Chem Phys 10:366-93 Je '42
Microanalysis of gases; nitric oxide-hydrogen, nitric oxide-nitrogen, and nitrous oxide-ammonia mixtures. R. N. Smith and P. A. Leighton. diags Ind & Eng Chem Anal ed 14:758-9 S 15 '42
Mobilities in nitrogen at high current densities. W. H. Bennett. diags Phys R 62:369-71 O 1 '42
Mobilities in some free electron gases. W. H. Bennett and L. H. Thomas. Phys R 62:41-7 Jl 1 '42
Molecular dissymmetry due to symmetrically placed hydrogen and deuterium; the attempted resolution of 4 : 4′-dibromo-2 : 3 : 5 : 6-tetradeuterobenzhydrylamine; a method for the determination of deuterium in organic compounds. G. R. Clemo and G. A. Swan. diag Chem Soc J p370-4 My '42
Nature of electronic levels in ultraviolet spectra of hydrogen and alkyl halides. R. S. Mulliken. bibliog Phys R 61:277-83 Mr 1 '42
Photoactivation of adsorption of hydrogen on thorium oxide. A. Luyckx, J. Bodart and G. Rens. bibliog Am Chem Soc J 64:1731-2 Jl '42
Photolysis of azomethane in the presence of hydrogen. H. A. Taylor and R. G. Flowers. bibliog J Chem Phys 10:110-15 F '42
Photolysis of ketene in the presence of hydrogen and methane. C. Rosenblum. bibliog Am Chem Soc J 63:3322-9 D '41
Proton production by electron collisions in molecular hydrogen. H. F. Newhall. bibliog diags Phys R 62:11-18 Jl 1 '42
Separation of nuclear isomers; hydrogen molecule model. E. P. Cooper. Phys R 61:4-5 Ja 1 '42
Sodium-hydrogen Geissler tube. F. M. Goyan. bibliog diag Ind & Eng Chem Anal ed 14:60-1 Ja 15 '42
Some peculiarities in the P-T border curves of mixtures of hydrogen and a petroleum naphtha. W. B. Kay. bibliog Chem R 29:501-7 D '41
Sorption of hydrogen by metals; temperature variation experiments. C. W. Griffin. Am Chem Soc J 63:2957-60 N '41
Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42
Studies on overvoltage; a study of hydrogen decomposition potentials under various conditions in acid solutions at platinized platinum electrodes. A. L. Ferguson and M. B. Towns. bibliog Electrochem Soc Trans 82 (preprint 26):301-17 O '42
Studies on overvoltage; decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. A. L. Ferguson and M. B. Towns. diags Electrochem Soc Trans 82 (preprint 25):285-99 O '42
Tracer studies with radioactive carbon and hydrogen; the synthesis and oxidation of fumaric acid. M. B. Allen and S. Ruben. bibliog Am Chem Soc J 64:948-50 Ap '42
Unsensitized slow combination of hydrogen and oxygen between the second and third explosion limits in the temperature range 500-560°C. F. S. Dainton. J Chem Phys 9:826-7 N '41
Using waste hydrocarbons; preparation of hydrogen; abstract. Rakovski and Burinova. Chem Age (Lond) 67:264 S 19 '42
Values of R and of e/m, from the spectra of H, D and He^+. R. T. Birge. Phys R 60:766-85 D 1 '41

See also
Hydrogenation
Protons
Steel—Hydrogen effect

Analysis

Accurate dew point indication for atmospheres of heat-treating furnaces. P. R. Kalischer. il diag Steel 111:110-11 S 14 '42
Audit of the carbon, oxygen and hydrogen in an iron blast furnace. J. S. Fulton. Blast F & Steel Pl 30:83-8, 233-7, 339-44 Ja-Mr '42
Determination of carbon and hydrogen in bone black and other chars. V. R. Deitz and L. F. Gleysteen. bibliog diags J Research Nat Bur Stand 28:795-805 Je '42
Determination of the bridge structure of dipyrrylmethanes; a new method for the estimation of active hydrogen. A. H. Corwin and R. C. Ellingson. bibliog diags Am Chem Soc J 64:2098-106 S '42
Gas-fired furnace for semimicrodetermination of carbon and hydrogen. H. A. Pagel. il Ind & Eng Chem Anal ed 14:764-6 S 15 '42
Hydrogen moisture check by direct electronic method. il diag Electronics 15:100 Ag '42
Universal apparatus for micro- or semi-micro-determination of carbon and hydrogen. G. Ingram. bibliog diags Soc Chem Ind J 61:112-15 Jl '42

Atomic hydrogen

See also
Electric welding, Arc
—Hydrogen process

Industrial applications

Hydrogen cooling used for induction heating generator. il Iron Age 148:47 D 11 '41
Hydrogen for high-frequency cooling. il Power 86:107-8 F '42
Reducing iron ore with hydrogen. M. H. Kalina and T. L. Joseph. il Iron Age 148:39-43 D 11 '41

See also
Electric welding, Arc
—Hydrogen process

Isotopes

Exchange and transfer equilibria of acids, bases, and salts in deuterium-protium oxide mixtures; the ion product constant of deuterium oxide. R. W. Kingerley and V. K. LaMer. bibliog Am Chem Soc J 63:3256-62 D '41

HYDROGEN—Isotopes—*Continued*
Photodisintegration of beryllium and deuterium. F. E. Myers and L. C. Van Atta. bibliog diags Phys R 61:19-22 Ja 1 '42
Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42
Study of the Menschutkin reaction using radioactive hydrogen as a tracer. D. Harman, T. D. Stewart and S. Ruben. bibliog Am Chem Soc J 64:2294-6 O '42
Tensor forces and the theory of light nuclei; properties of H^3 and He^4. E. Gerjuoy and J. Schwinger. Phys R 61:138-46 F 1 '42
Tracer studies with radioactive hydrogen; the synthesis of labelled methyl iodide. D. Harman, T. D. Stewart and S. Ruben. bibliog diag Am Chem Soc J 64:2293-4 O '42
Vapor pressures of the tritium liquid hydrogens; dependence of hydrogen vapor pressure on mass of the molecule. W. F. Libby and C. A. Barter. J Chem Phys 10:184-6 Mr '42
See also
Deuterium

HYDROGEN, Liquid
Non-fouling hydrogen liquefier. E. R. Blanchard and H. W. Bittner. bibliog il diags R Sci Instr 13:394-405 S '42
Vapor pressures of the tritium liquid hydrogens; dependence of hydrogen vapor pressure on mass of the molecule. W. F. Libby and C. A. Barter. J Chem Phys 10:184-6 Mr '42

HYDROGEN azide. See Hydrazoic acid

HYDROGEN bromide. See Hydrobromic acid

HYDROGEN chloride. See Hydrochloric acid

HYDROGEN compounds
Associating effect of the hydrogen atom; the N-H-N bond; the constitution of the benztriazoles. T. G. Heafield and L. Hunter. Chem Soc J p420-2 Jl '42
See also
Deuterium compounds
Hydrocarbons

HYDROGEN cyanide. See Hydrocyanic acid

HYDROGEN engine. See Erren engine

HYDROGEN fluoride. See Hydrofluoric acid

HYDROGEN halides
Electronic structure and stability of hydrogen halides and of complex ions XO_4. K. Fajans and N. Bauer. bibliog J Chem Phys 10:410-15 Jl '42
See also
Hydriodic acid
Hydrobromic acid
Hydrochloric acid
Hydrofluoric acid

HYDROGEN iodide. See Hydriodic acid

HYDROGEN ion concentration
Acidity and alkalinity measurements. W. A. Taylor. il diag Power Pl Eng 46:64-6 Mr '42
Acidity of bread containing calcium carbonate. P. Halton. Soc Chem Ind J 61:77-80 My '42
Adjustment of the pH of sugar solutions with Attapulgus clay. W. A. La Lande, jr. and others. Ind & Eng Chem 34:988-91 Ag '42
Application of hydrogen ion concentration to water treatment; abstract. G. W. Bond. Am Water Works Assn J 34:774-5 My '42
Cambridge multi-point pH recorder. il R Sci Instr 13:236 My '42
Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34:920-4 Ag '42; Same. Metal Finishing 40:527-31 O '42
Controlling soil reaction; a universally important task for pH meters. H. Seymour. Chem Age (Lond) 46:223 Ap 25 '42
Deaeration increases pH. J. D. Yoder. Power 86:175-7 Mr '42
Detection of second-hand white cotton filling materials used in articles of bedding and upholstered furniture. C. M. Jephcott and W. H. H. Bishop. bibliog Ind & Eng Chem Anal ed 14:400-4 My 15 '42
Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42
Extension of the acidity scale. L. Michaelis and S. Granick. Am Chem Soc J 64:1861-5 Ag '42
Extraction of metals from aqueous solutions with dithizone lead. L. P. Biefield and T. M. Patrick. bibliog Ind & Eng Chem Anal ed 14:275-8 Mr 15 '42
General principles and methods of electroplating. W. Blum, A. O. Beckman and W. R. Meyer. bibliog diag Electrochem Soc Trans 80 (preprint 33):424-38 O '41; Same. Can Chem & Process Ind 25:678-82 D '41
General theory of the isoelectric point. T. L. Hill. bibliog J Phys Chem 46:417-28, 597-605, 621-4 Mr, My-Je '42
Glass electrode measurements of the pH of chromic acid solutions. W. H. Hartford. bibliog Ind & Eng Chem Anal ed 14:174-6 F 15 '42
How Annabella learned the facts about pH. C. S. Sammis. il J Chem Educ 19:490-4 O '42
Hydrogen ion concentration of paper extracts; revision of TAPPI tentative standards T 435 m-34. bibliog Paper Tr J 115:33-4 Jl 9 '42
Measurement of pH. T. T. Baker. il diags Elec R (Lond) 129:425-8 O 24 '41
Multi-point pH recorder. il Chem & Eng N 20:572 Ap 25 '42; Blast F & Steel Pl 30:452 Ap '42
Provisional pH values for certain standard buffer solutions. R. G. Bates and others. bibliog J Research Nat Bur Stand 29:183-90 S '42
Separation of copper, lead, and zinc with salicylaldoxime. L. P. Biefeld and W. B. Ligett. bibliog Ind & Eng Chem Anal ed 14:359-61 Ap 15 '42
Study of pH factor in hypochlorite bleaching of wood pulp; two-stage treatment of sulphite pulp. F. Casciani and G. K. Storin. Paper Tr J 115:89-97 O 1 '42
Test for pH; Cargille buffer set. il Sci Am 167:25-6 Jl '42
Ultraviolet absorption spectra of nitrogenous heterocycles; effect of pH and irradiation on the spectra of isoguanine and 2-hydroxy-6,8-diaminopurine. M. M. Stimson. bibliog Am Chem Soc J 64:1604-5 Jl '42
What do you mean, pH? here's the answer. J. L. St John. il Food Ind 13:65-7+ D '41

Control

Control of pH in bleaching. B. P. Ridge and A. H. Little. Am Dyestuff Rep 31:515-16+ O 26 '42
Control of pH in canning acid foods. C. T. Townsend and M. J. Powers. il Food Ind 14:52-4 Ja '42
Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42
pH control in waterproofing; simple colorimetric methods. G. S. Ranshaw. Textile Col 64:429-30 S '42
Hydrogen ion control in electroplating; advisability of frequent measurement. H. Seymour. Chem Age (Lond) 46:193 Ap 11 '42
Hydrogen ion control system on cylinder machines. G. Sutton. Paper Tr J 115:39-40 Jl 2 '42; Same. Paper Ind 24:758-9 O '42
Plate graining with pH control. J. Stark. Inland Ptr 109:53-4 Jl '42
Stop corrosion by controlling pH. L. F. Wirth. il Power Pl Eng 46:57-8 Ag '42

HYDROGEN peroxide
Anomalies in conductivity measurements in presence of hydrogen peroxide. M. Bobtelsky and A. E. Simchen. bibliog Am Chem Soc J 64:454-61 F '42

HYDROGEN peroxide—*Continued*

Behavior of certain carbonyl bridge compounds with alkaline hydrogen peroxide. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2439-42 O '42

Catalysts for peroxide decomposition. M. Bobtelsky and A. E. Simchen. Am Chem Soc J 64:2492-8 O '42

Catalytic decomposition of hydrogen peroxide by basic beryllium iodide hydrosols. B. Cohen. bibliog Am Chem Soc J 64:1340-1 Je '42

Mechanism of the ascorbic acid-ascorbic acid oxidase reaction; the hydrogen peroxide question. H. G. Steinman and C. R. Dawson. bibliog Am Chem Soc J 64:1212-19 My '42

New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

Peroxide production for bleaching silk. C. C. Downie. Textile Col 63:608 N '41

Peroxide versus chlorine bleaching; discussion. Am Dyestuff Rep 31:61-2 F 2 '42

Reactions in solutions containing O_3, H_2O_2, H^+ and Br^-; the specific rate of the reaction $O_3 + Br^- \rightarrow$. H. Taube. Am Chem Soc J 64:2468-74 O '42

Reactions involving oxygen, amalgams and hydrogen peroxide. H. A. Liebhafsky. Am Chem Soc J 64:852-6 Ap '42

Stable hydrogen peroxide aerosol. H. A. Abramson. Science 96:238 S 4 '42

Sterols; sapogenins; the action of hydrogen peroxide on the pseudosapogenin acetates and on the pregnenolones. R. E. Marker, E. M. Jones and E. L. Wittbecker. Am Chem Soc J 64:468-9 F '42

Analysis

Luminol as reagent for hydrogen peroxide, copper, iron, and cyanide. A. Steigmann. Soc Chem Ind J 61:36 F '42

New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

Persulphate test with luminol and luminescence inductions with sulphurous acid. A. Steigmann. Soc Chem Ind J 61:68 Ap '42

HYDROGEN selenide

Toxicology of selenium; effects of subacute exposure to hydrogen selenide. H. C. Dudley and J. W. Miller. bibliog diag J Ind Hygiene 23:470-7 D '41

HYDROGEN sulfide

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41; Same cond. Gas J (Lond) 237:130, 133-4 Ja 28 '42

Casing corrosion in oil fields producing sour gas. T. D. Bailey and A. M. Crowell. diags map Oil & Gas J 41:31-4 O 15 '42

Catalysis of the thermal decomposition of acetaldehyde by hydrogen sulfide. W. L. Roth and G. K. Rollefson. Am Chem Soc J 64:1707-11 Jl '42

Control of odorous and destructive gases in sewers and treatment plants. C. C. Hommon. il Water Works & Sewerage 89:277-80 Je '42

Dithio-β-*iso*indigo (dithiodiphthalimidine) from phthalonitrile. H. D. K. Drew and D. B. Kelly. Chem Soc J p625-41 O '41

High H_2S natural gas purified in Arkansas plants; Girbotol process. il Gas Age 89:52+ My 7 '42

Interaction of chloramine-T and hydrogen sulphide, phosphine, and arsine. J. R. Bendall, F. G. Mann and D. Purdie. Chem Soc J p157-63 F '42

New precipitant for group II ions. S. Gaddis. J Chem Educ 19:327-8 Jl '42

Sewage chlorination for odor control; effects of sub-residual chlorine dosages on hydrogen sulfide. H. Heukelekian. Water Works & Sewerage 89:302-4 Jl '42

Simple hydrogen sulfide generator. B. W. Pocock, L. Scholten and P. J. Erickson. diag Ind & Eng Chem Anal ed 14:575 Jl 15 '42

Sulphur from Arkansas sour gas; removal of hydrogen sulfide by Girbotol process. J. A. Lee. il diag Chem & Met Eng 49:80-2 Je '42

HYDROGENATION

Addition of hydrogen to multiple carbon-carbon bonds. K. N. Campbell and B. K. Campbell. Chem R 31:77-175 bibliog(366 references, p 167-75) Ag '42

Alkali and alkaline earth metals as catalysts in the hydrogenation of organic compounds. F. W. Bergstrom and J. F. Carson. Am Chem Soc J 63:2934-6 N '41

Applicability of palladium synthetic high polymer catalysts. L. D. Rampino and F. F. Nord. Am Chem Soc J 63:3268 D '41

Catalytic hydrogenation of heptaldehyde in vapor phase. T. Suen and S. Fan. bibliog Am Chem Soc J 64:1460-2 Je '42

Catalytic reactions. H. W. Lohse. Can Chem & Process Ind 26:301-2 My '42

Change in magnetic susceptibility of nickel disalicylaldehyde on hydrogenation. M. A. Fobes and G. N. Tyson, jr. Am Chem Soc J 63:3530 D '41

Chemistry of coal hydrogenation. H. H. Storch. Chem R 29:483-99 bibliog(p497-9) D '41

Coal by-products; solubilizing effect of hydrogenation upon aromatic-derived resins. W. H. Carmody. bibliog Ind & Eng Chem 34:74-8 Ja '42

Hydrogenation of alkyl phenyl ketones in the presence of copper alumina catalysts. V. N. Ipatieff and V. Haensel. Am Chem Soc J 64:520-1 Mr '42

Hydrogenation of disubstituted acetylenes. K. W. Greenlee and W. C. Fernelius. Am Chem Soc J 64:2505 O '42

Hydrogenation of β-iminonitriles. H. Adkins and G. M. Whitman. bibliog Am Chem Soc J 64:150-4 Ja '42

Hydrogenation of oils; abstract. G. M. Zhabrova. Chem Age (Lond) 46:318 Je 27 '42

Kinetics of hydrogen consumption, oxygen elimination and liquefaction in coal hydrogenation; nature of the catalytic reactions. H. H. Storch, C. O. Hawk and W. E. O'Neill. bibliog Am Chem Soc J 64:230-6 F '42

Mechanism of the catalytic conversion of para-hydrogen on nickel, platinum and palladium. A. Farkas and L. Farkas. bibliog Am Chem Soc J 64:1594-9 Jl '42

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

Molecular weights of hydrogenolysis products from a Pittsburgh seam bituminous coal. J. F. Weiler, J. J. Ward and H. C. Howard. Am Chem Soc J 64:734-6 Ap '42

Partial reduction of acetylenes to olefins using an iron catalyst; enyne and dienyne reduction. A. F. Thompson, jr. and E. N. Shaw. Am Chem Soc J 64:363-6 F '42

Rapid method of measuring the unsaturation of hydrogenated fats. H. Jasperson. bibliog Soc Chem Ind J 61:115-16 Jl '42

Simplified microhydrogenation apparatus. I. B. Johns and E. J. Seiferle. bibliog diag Ind & Eng Chem Anal ed 13:841-3 N 15 '41

Stereochemistry of catalytic hydrogenation. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-2026 S '42

Studies in gaseous hydrogenation and polymerization reactions. H. D. Burnham and R. N. Pease. bibliog Am Chem Soc J 64:1404-10 Je '42

Studies on lignin and related compounds; high pressure hydrogenation of wood using copper chromite catalyst. H. P. Godard, J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3061-6 N '41

Studies on lignin and related compounds; hydrogenation of wood. J. R. Bower, jr., J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3066-8 N '41

HYDROGENATION—*Continued*

Studies on lignin and related compounds; hydrogenation studies on maple ethanolysis products. L. M. Cooke, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63: 3052-61 N '41

See also

Coal liquefaction
Dehydrogenation

HYDROGENATION, Heat of

Heats of catalytic hydrogenation in solution; apparatus, technique, and the heats of hydrogenation of certain pairs of stereoisomers. R. B. Williams. bibliog diag Am Chem Soc J 64:1395-1404 Je '42

HYDROGRAPHIC surveying

Answer, echo, answer; use of Fathometer by United States Coast and geodetic survey's ship Oceanographer. R. Hallet. il Tech R 44:311-12+ My '42

HYDROGRAPHY

See also

Lakes
Navigation
Ocean bottom
Rivers
Stream measurement
Tides

HYDROLOGY. See Water

HYDROLYSIS

Acid catalyzed hydrolysis of ethyl esters of aliphatic acids. H. A. Smith and J. H. Steele. Am Chem Soc J 63:3466-9 D '41

Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64: 2362-5 O '42

Action of almond emulsin on populin and on phenyl 2,4,6-trimethyl-β-D-glucoside. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:374-5 F '42

Alkaline hydrolysis of fluorenone-spirohydantoin. W. H. McCown and H. R. Henze. bibliog Am Chem Soc J 64:689-90 Mr '42

Cleavage of the alkyl-oxygen bond in the hydrolysis of esters; *t*-butyl 2,4,6-trimethylbenzoate. S. G. Cohen and A. Schneider. bibliog Am Chem Soc J 63:3382-8 D '41

Constitution of arabo-galactan; the isolation of heptamethyl- and octamethyl-6-galactosidogalactose through partial hydrolysis of methylated arabogalactan. E. V. White. bibliog Am Chem Soc J 64:302-6 F '42

Contributions to the chemistry of indium; hydrolysis constants for indium tribromide and triiodide solutions. T. Moeller. bibliog Am Chem Soc J 64:953-4 Ap '42

Cyclic methyleneimines; hydrolysis of quaternary compounds; preparation of secondary amines. J. Graymore. Chem Soc J p29-30 Ja '42

Determination of melibiase activity. P. P. Gray and H. Rothchild. bibliog Ind & Eng Chem Anal ed 13:902-5 D 15 '41

Hydrolysis and catalytic oxidation of cellulosic materials; hydrolysis of mercerized cottons. R. F. Nickerson. bibliog Ind & Eng Chem 34:85-8 Ja '42

Hydrolytic derivatives of lignin volatile compounds. A. Bailey. Am Chem Soc J 64:22-3 Ja '42

Influence of structural changes in the aglucons on the enzymic hydrolysis of alkyl β-D-glucosides. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:369-74 F '42

Plastics from hydrolyzed lignocellulose. R. Katzen, A. O. Reynolds and D. F. Othmer. flow sheet bibliog il Am Inst Chem Eng Trans 38:735-60 Ag '42

Studies on lignin and related compounds; synthesis and properties of glycosides related to lignin. J. H. Fisher, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 63:3031-5 N '41

Wood hydrolysis; a continuous process. R. Katzen and D. F. Othmer. bibliog flow sheet il Ind & Eng Chem 34:314-22 Mr '42

HYDROLYSIS, Heat of

Heats of organic reactions; heats of hydrolysis of some acid anhydrides. J. B. Conn and others. bibliog Am Chem Soc J 64: 1747-52 Ag '42

HYDROMECHANICS

Mechanics of fluids. G. Murphy. 329p $3.25 International textbook co, Scranton, Pa. '42

Reservoirs under hydraulic and volumetric controls. A. H. Nissan. diags Inst Pet J 28:146-57 Jl '42

See also

Hydraulic engineering
Hydraulics
Hydrodynamics

HYDROMETALLURGY

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; electrodeposition of manganese. D. Schlain. pl U S Bur Mines Rep of Invest 3651:1-28 '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; laboratory experiments on sulfur dioxide-sulfuric acid leaching of black and brown manganiferous iron ores of the Cuyuna range of Minnesota. C. T. Anderson. U S Bur Mines Rep of Invest 3649:1-38 '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; nitrogen dioxide process for recovery of manganese from ores. R. S. Dean, A. L. Fox and A. E. Beck. flow sheet U S Bur Mines Rep of Invest 3626:1-30 '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; recovery of manganese from Chamberlain nodules by the Reyerson modification of the sulfur dioxide leaching process. C. E. Wood and others. pls U S Bur Mines Rep of Invest 3609:1-30 '42

HYDROMETERS

Hydrometer-type float method for measuring surface and interfacial tensions. B. Vonnegut. R Sci Instr 13:82-3 F '42

Improved hydrometer method for use in fineness determinations. A. Klein. diag Am Soc T M Proc 41:953-66 '41

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14:622-32 Ag 15 '42

HYDROPEROXIDES

Course of autoxidation reactions in polyisoprenes and allied compounds; the structure and reactive tendencies of the peroxides of simple olefins. E. H. Farmer and A. Sundralingam. Chem Soc J p121-39 F '42

HYDROPHIL balance

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

HYDROPHOBIA. See Rabies

HYDROPLANES

See also

Sea sleds

HYDROQUINONE

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63: 2948-53 N '41

Influence of hydroxyl ion concentration on the autoxidation of hydroquinone. J. R. Green and G. E. K. Branch. Am Chem Soc J 63:3441-4 D '41

Methyl methacrylate polymerization; peroxide catalysis and the oxidation of hydroquinine inhibitor. H. N. Alyea, J. J. Gartland, jr. and H. R. Graham, jr. Ind & Eng Chem 34:458-60 Ap '42

Oxidation processes; the effect of silver on the autoxidation of some photographic developing agents. A. Weissberger and D. S. Thomas, jr. bibliog Am Chem Soc J 64:1561-7 Jl '42

Analysis

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42

HYDROSEPARATORS

Particle sizing and hydroseparation in phosphate recovery. B. J. Larpenteur. flow sheets il Eng & Min J 143:50-1 Mr '42

HYDROSOLS. See Colloids

HYDROSTATICS

See also
Fluids
Gases

HYDROSULFOSOL. See Sulfhydryl solution

HYDROURACIL

Action of ketene on 5,5-dibromoxyhydrouracil. M. Fytelson and T. B. Johnson. bibliog Am Chem Soc J 64:306-8 F '42

HYDROXIDES

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

See also
Sodium hydroxide

HYDROXY acids

Application of the dropping-mercury electrode to the investigation of the polyhydroxy acids and lactones. H. Matheson, H. S. Isbell and E. R. Smith. bibliog diags J Research Nat Bur Stand 28:95-131 Ja '42

HYDROXY compounds

Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42

Effect of methoxyl toward stabilizing enediols. R. P. Barnes and W. M. Lucas. Am Chem Soc J 64:2258-9 O '42

Enediols; an amino stilbenediol. R. C. Fuson and S. L. Scott. Am Chem Soc J 64:2152-3 S '42

Molecular rearrangements of 17-hydroxypregnane compounds. H. E. Stavely. bibliog Am Chem Soc J 63:3127-31 N '41

Preparation and properties of an ene-diol; α-*o*-methoxyphenyl-β-mesitoylacetylene glycol. R. P. Barnes and W. M. Lucas. Am Chem Soc J 64:2260-1 O '42

HYDROXYANTHRAQUINONE

Preparation and properties of some perihydroxyquinone inner complexes. B. P. Geyer and G. M. Smith. Am Chem Soc J 64:1649-51 Jl '42

HYDROXYBENZALRHODANINE

Analytical possibilities of some hydroxybenzalrhodanines; *o*-, *m*-, and *p*-hydroxybenzalrhodanines and 3,4-dihydroxybenzalrhodanine. A. W. Scott and T. E. Robbins. bibliog Ind & Eng Chem Anal ed 14:206-7 Mr 15 '42

HYDROXYBENZOIC acid

Preparation of *m*-hydroxybenzoic acid. H. E. Ungnade and A. S. Henick. bibliog Am Chem Soc J 64:1737 Jl '42

HYDROXYCAMPHOR

Oxidative cleavage of cyclic α-keto alcohols by means of lead tetraacetate. E. Baer. Am Chem Soc J 64:1416-21 Je '42

HYDROXYCARBOXYOCTYL peroxide

Peroxides derived from η-aldehydo-octoic acid and nonaldehyde; bis-α-hydroxy-ω-carboxyoctyl peroxide and bis-α-hydroxynonyl peroxide. G. King. Chem Soc J p218-20 Mr '42

HYDROXYCHOLESTEROL

Epimeric 7-hydroxycholesterols. O. Wintersteiner and W. L. Ruigh. bibliog Am Chem Soc J 64:2453-7 O '42

HYDROXYCHROMANS

Chemistry of vitamin E; a new synthesis of 6-hydroxychromans, including α-tocopherol. L. I. Smith and H. C. Miller. bibliog Am Chem Soc J 64:440-5 F '42

HYDROXYDIAMINOPURINE

Ultraviolet absorption spectra of nitrogenous heterocycles; effect of *p*H and irradiation on the spectra of isoguanine and 2-hydroxy-6,8-diaminopurine. M. M. Stimson. bibliog Am Chem Soc J 64:1604-5 Jl '42

HYDROXYEPICAMPHOR

Oxidative cleavage of cyclic α-keto alcohols by means of lead tetraacetate. E. Baer. Am Chem Soc J 64:1416-21 Je '42

HYDROXYHYDROQUINONES

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

HYDROXYKETOSTEARIC acids

Oxidation of hydroxyketostearic acids in presence of alcoholic alkali. T. P. Hilditch and H. Plimmer. Chem Soc J p204-6 Mr '42

HYDROXYMETHYLIMIDAZOLE

Preparation of 4(5)-hydroxymethylimidazole. W. J. Darby, H. B. Lewis and J. R. Totter. bibliog Am Chem Soc J 64:463-4 F '42

HYDROXYNONYL peroxide

Peroxides derived from η-aldehydo-octoic acid and nonaldehyde; bis-α-hydroxy-ω-carboxyoctyl peroxide and bis-α-hydroxynonyl peroxide. G. King. Chem Soc J p218-20 Mr '42

HYDROXYPHENETHYLAMINE

Physiologically active phenethylamines containing a tertiary hydroxyl. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:2451-2 O '42

HYDROXYPHENYL amyl sulfide

Synthesis of *p*-hydroxyphenyl amyl sulfide. E. Miller, F. S. Crossley and M. L. Moore. bibliog Am Chem Soc J 64:2322-3 O '42

HYDROXYPROPIOSYRINGONE

Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

HYDROXYPROPIOVANILLONE

Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

HYDROXYPROPIOVERATRONE

Studies on lignin and related compounds; synthesis and properties of glycosides related to lignin. J. H. Fisher, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 63:3031-5 N '41

Studies on lignin and related compounds; synthesis and properties of β-hydroxypropioveratrone. K. A. West, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 63:3035-8 N '41

HYDROXYQUINOLINE

Detection of gallium by a fluorescence reaction with 8-hydroxyquinoline. E. B. Sandell. Ind & Eng Chem Anal ed 13:844-5 N 15 '41

Estimation of magnesium with 8-hydroxyquinoline; microtitration and photometric procedures. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:658-61 Ag 15 '42

Gravimetric determination of aluminum in magnesium alloys; benzoate-oxine method. V. A. Stenger, W. R. Kramer and A. W. Beshgetoor. Ind & Eng Chem Anal ed 14:797-8 O 15 '42

Oxine precipitates; determination of metals with 8-hydroxyquinoline. Chem Age (Lond) 45:239 N 1 '41

Rapid determination of aluminium in magnesium alloys by means of 8-hydroxyquinoline (oxine). C. H. Wood. Soc Chem Ind J 61:29-31 F '42

HYDROXYQUINONE

Preparation and properties of some perihydroxyquinone inner complexes. B. P. Geyer and G. M. Smith. Am Chem Soc J 64:1649-51 Jl '42

HYDROXYTETRAHYDROEQUILENONE

Synthesis of an insomer of estrone containing a phenolic B ring. W. E. Bachmann and A. B. Ness. bibliog Am Chem Soc J 64:536-40 Mr '42

HYDROXYTHIAZINE

Extension of the acidity scale. L. Michaelis and S. Granick. Am Chem Soc J 64:1861-5 Ag '42

HYDROXYLAMINE

Effect of catalysis upon the oxidation products of hydroxylamine. T. H. James. bibliog Am Chem Soc J 64:731-4 Ap '42

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

HYDROXYLAMMONIUM sulfate

Assay of benzaldehyde; use of hydroxylammonium sulfate and aqueous sodium hydroxide. M. Schubert and J. G. Dinkelspiel. bibliog Ind & Eng Chem Anal ed 14:154-5 F 15 '42

HYDROXYL group

Determination of hydroxyl content of organic compounds; acetyl chloride as a reagent. B. E. Christensen, L. Pennington and P. K. Dimick. bibliog diags Ind & Eng Chem Anal ed 13:821-3 N 15 '41

Influence of substituents on the reactivity of the hydroxyl group in β-phenylethyl alcohol. G. M. Bennett and M. M. Hafez. Chem Soc J p652-9 O '41

Sterols; sapogenins; the configuration of the hydroxyl groups in chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:221-3 F '42

Sterols; sapogenins; the position of the hydroxyl groups in digitogenin. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1843-7 Ag '42

HYDROXYL ion

Influence of hydroxyl ion concentration on the autoxidation of hydroquinone. J. R. Green and G. E. K. Branch. Am Chem Soc J 63:3441-4 D '41

Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

HYGIENE

American Red cross textbook on Red cross home nursing. L. L. Trott. 431p bibliog(p409-15) pa 60c Blakiston '42

Attention! to your health. E. I. Stewart, jr. 82p bibliog(p82) pa 35c Teachers college '41

Civilian health in wartime. F. R. Dieuaide. 328p bibliog(p307-12) $2.50 Harvard univ. press '42

Elements of healthful living. H. S. Diehl. 322p $1.75 McGraw-Hill '42

Encyclopedia of health and physical culture. B. A. Macfadden, ed. rev ed 8v $54 Macfadden publications, 205 E. 42d st New York '42

Handbook of hygiene, for students and practitioners of medicine. J. W. Bigger. 2d ed 414p $4.50 Williams & Wilkins '42

Health facts for college students; a textbook of individual and community health. M. L. Etheredge. 4th ed rev 379p bibliog(p365-70) $2.25 Saunders '42

Health for body and mind. W. F. Cobb. rev ed 534p $1.60 Appleton-Century '41

Health in the world of work. J. F. Williams and D. Oberteuffer. 405p bibliog(p396-8) $1.96 McGraw-Hill '42

Health problems, how to solve them. C. L. Brownell, J. F. Williams and W. L. Hughes. 317p $1.52 Am. book co. '42

How to feel better and look it. F. T. Kimball and A. W. Allen. 280p bibliog(p262-6) $2.50 Duell, Sloan & Pearce, New York '42

Live up to yourself; how to make the most of your energy. D. W. Josselyn. 190p $2 Longmans '41

Manual of war-time hygiene; supplement to A college textbook of hygiene. D. F. Smiley and A. G. Gould. 86p bibliog(p77-8) pa $1 Macmillan '42

Middle age is what you make it. B. Sokoloff. 204p $1 Garden City pub. co, Garden City, N.Y. '42

New bodies for old; the story of chemical balance. R. G. Fear. 189p bibliog(p186-9) $3; pa $2.50 Ralph Gordon Fear, 19600 Sherman way, Reseda, Calif. '41

No mystery in pep; seven simple rules for getting and maintaining a reserve of vigor. D. A. Laird. Sci Am 166:73-5 F '42

Personal and community health. C. E. Turner. 6th ed 652p $3.50 C. V. Mosby co, St Louis '42

Physiological hygiene. C. P. Hickman. rev ed 482p $3.25 Prentice-Hall '42

Science of health. F. L. Meredith. 2d ed 427p $2.50 Blakiston '42

Tests and measurements in health and physical education. C. H. McCloy. 2d ed 412p bibliog(p326-45) $3 Crofts '42

See also

Air conditioning—Hygienic aspects
Air pollution
Children—Care and hygiene
Diet
Disinfection and disinfectants
Fatigue
Food
Humidity
Mental hygiene
Military hygiene
Nutrition
Physical examinations
Public health
School hygiene
Sickness
Soap—Physiological effect
Temperature—Physiological effect
Ventilation
Water pollution
Water purification
Water supply

Study and teaching

Health education of the public. W. W. Bauer and T. G. Hull. 2d ed rev 315p $2.75 Saunders '42

Your health and safety. J. W. Clemensen and W. R. LaPorte. 587p bibliog(p551-4) $1.96 Harcourt '42

HYGIENE, Industrial

Abstracts of papers presented at the 6th annual meeting of the Industrial hygiene foundation of America. Ind Med 11:20-3 Ja '42

Accidents and health in British factories, 1940. Monthly Labor R 54:134-9 Ja '42

Analysis of industrial hygiene activities in state and local health departments, 1940-41. V. M. Trasko and J. J. Bloomfield. Pub Health Rep 57:853-72 Je 5 '42

Audit your absenteeism. J. F. McMahon. Personnel J 21:158-62 N '42

Background of current conflicts in industrial hygiene; Labor and Health departments. M. I. Roemer. bibliog Ind Med 11:336-7 Jl '42

Beating the heat. il Nat Safety N 45:32+ Je '42

Britain's industrial front; report of the Chief inspector of factories, 1940. il Nat Safety N 45:12-13+ Je '42

Cadmium; hazards and precautions. Nat Safety N 46:86, 88 O '42

Chrysler girds for war. J. J. Prendergast. il Nat Safety N 45:10-11+ Ap '42

Colds on the payroll. Am Business 12:28-31 O '42

Combating chronic poisoning in chemical operations. W. M. Pierce. diag Chem & Met Eng 49:80-1+ Ag '42

Conserving man power by effective health education. J. J. Brandabur. Edison Elec Inst Bul 10:59-62 F '42

Control of industrial health hazards. E. C. Barnes. il Ind Med 11:500-4 O '42

Cutting oil sanitation. N. D. Duffett. Ind Med 11:88-9 F '42

Defend the defense worker is theme of 6th annual meeting of Industrial hygiene foundation. Concrete (mill sec) 50:106 Ja '42

Dental services in industry; observations on their effects in the reduction of absenteeism. H. A. Hooper. bibliog Ind Med 11:157-62 Ap '42

Disabling morbidity among industrial workers, third quarter of 1941. W. M. Gafafer. Pub Health Rep 56:2428-9 D 19 '41

Disabling morbidity among industrial workers, final quarter of 1941. W. M. Gafafer. Pub Health Rep 57:588-9 Ap 17 '42

Disabling morbidity among industrial workers, second quarter of 1942. W. M. Gafafer. Pub Health Rep 57:1620-2 O 23 '42

HYGIENE, Industrial—*Continued*

Disabling morbidity among male and female industrial workers during 1941, and among males during the first quarter of 1942. W. M. Gafafer. Pub Health Rep 57:1344-7 S 4 '42

Disabling sickness among industrial workers, 1941. Monthly Labor R 55:262-3 Ag '42

Educational social hygiene; extension to industrial employees for the control of gonorrhea and syphilis. T. A. Storey. Ind Med 11:411-14 S '42

Emergency preparedness; report of the A.A.I.P. & S. committee on national defense. Ind Med 11:338-43 Jl '42

Epidemic of boils in a group of tunnel workers. J. Q. Gant, R. J. Owens and L. Schwartz. bibliog Pub Health Rep 57:612-17 Ap 24 '42

Everybody wins here; Visking corporation, health program. A. G. Hewitt. il Factory Management 100:74-6 Ja '42; Abstract. Management R 31:239-40 Jl '42

Field of industrial ophthalmology; report by committee of American medical association. A. C. Snell, A. Culler and H. S. Kuhn. Advanced Management 7:91-4 Ap-Je '42

Findings from major studies of fatigue. R. R. Sayers. U S Bur Mines Information Circ 7209:1-46 bibliog(p43-6) '42; Excerpt. Concrete (mill sec) 50:271-2 N '42

Fitness for victory; health programs that reduce absenteeism needed for full-speed war production. W. S. Paine. Nat Safety N 46:34+ Jl '42

Food and nutrition of industrial workers; report of the committee on nutrition in industry of the National research council. Ind Med 11:346-8, 350, 352-5 Jl '42

Frequency and duration of disabilities causing absence from work among the employees of a public utility, 1938-41; Boston Edison company. W. M. Gafafer. bibliog Pub Health Rep 57:625-7 Ap 24 '42

Fur won't fly; cleanliness problem in factory preparing fur for manufacture of felt; Jonas and Naumburg corporation. H. Armand. il Safety Eng 84:12-13 O '42

Future of industrial health in factories. H. M. Vernon. Ind Med 11:182-4 Ap '42

Glamorless twins; housekeeping and sanitation. H. G. Dyktor. il Nat Safety N 46:18-19+ S '42; Same cond. Safety Eng 84:35-9 S '42

Handbook for physicians on industrial health and medicine in war industries to be prepared by Division of industrial hygiene, National institute of health. Science 96:34 Jl 10 '42

Health and safety for America's workers; 25 case studies. il Factory Management 100:73-96 Ja '42

Health of the executive. H. C. Habein. Ind Med 11:218-21 My '42; Abstract. Management R 31:189-90 Je '42

Health of the worker and the hygiene of the work place. J. A. Britton. Ind Med 11:37-9 Ja '42

Health of women in war-time production. M. T. Mettert. Nat Safety N 45:34, 38+ Je '42; Same cond. Safety Eng 84:39-40 Ag; 40-1 S '42; Excerpts. Management R 31:347-8 O '42; Abstract. Concrete (mill sec) 50:202 Jl '42

Healthy workers produce more. H. M. Hall. il Aviation 41:56, 196+ Ap '42

How healthful is your plant? a survey will tell. J. F. McMahon. il Factory Management 100:102-3+ O '42

How to avoid heat sickness. Steel 111:78 Ag 3 '42

How vibrating tools affect some workers. Nat Safety N 46:97 Ag '42

How's the morale? measures which prevent physical and emotional fatigue bring returns in health, safety and increased energy. C. T. Fish. il Nat Safety N 45:25+ Je '42

Human assets. H. A. Miller. il Safety Eng 82:37-8, 40 D '41

Impairment of productivity. A. C. Ivy. Ind Med 11:138-9+ Mr '42

Industrial health. C. O. Sappington. il Edison Elec Inst Bul 10:88-90+ Mr '42

Industrial health; a department for physicians, nurses and laymen. Published in monthly numbers of National safety news

Industrial health in wartime. M. N. Newquist. Ind Med 11:236-7 My '42

Industrial health program. A. G. Kammer. Ind Med 11:216-18 My '42

Industrial health; symposium at Medical college of Virginia, Richmond. Ind Med 10:537-42 D '41

Industrial hygiene and occupational diseases; course outline and digest of lectures. 200p bibliog(p188-96) New York univ, Div. of general education, Center for safety education, New York '41

Industrial hygiene at work in defense industries. W. A. Cook. Metal Finishing 40:19-23+ Ja '42; Same. Safety Eng 83:41-2 Mr; 47:50 Ap; 40-2, 44 My '42; Abstract. Nat Underw 45:19+ N 27 '41

Industrial hygiene control on tunnel construction in hydro-electric projects in western North Carolina. M. F. Trice. bibliog il Ind Med 11:364-8; Discussion. W. A. Cook. 368 Jl '42

Industrial hygiene problems in war industries. J. J. Bloomfield. Ind Med 11:256-60 Je '42

Industrial noises and industrial deafness. W. A. Rosenblith. bibliog Acoustical Soc Am J 13:220-5 Ja '42

Industrial nurse. R. J. Webster, ed. Published in monthly numbers of Safety engineering

Industrial nutrition advisory service. Science 96:175 Ag 21 '42

Industrial safety and health from an executive viewpoint. J. J. Porter. Ind Med 10:542-6 D '41

Industry drafts the vitamins. Fortune 26:64+ N '42

Light for health. V. G. Heiser. Factory Management 100:107 Mr '42

Maintenance of health in chemical industries. H. F. Smyth, jr. il Chem Ind 50:514-16 Ap '42

Maintenance of health in the management group. M. I. Hall. bibliog Ind Med 11:263-5 Je '42

Manganese standard protects health of war workers. Ind Stand 13:221-2 S '42

Memorable progress seen in care of industrial workers. A. J. Lanza. Nat Underw 45:25+ N 13 '41

National association of manufacturers holds series of clinics to promote industrial health. Concrete (mill sec) 50:274 N '42

New products bring new health hazards. P. A. Brehm. Nat Safety N 46:34, 38+ Ag '42

Nutritional fitness surveys in industry. C. O. Sappington and A. J. Pacini. bibliog Ind Med 11:201-3 My '42

Occupational and related dermatoses; abstracts from the literature for the years 1935 to 1939, inclusive. L. Schwartz and L. H. Warren. (Pub. health bul. 266) 160p U.S. Public health service, Washington; pa 20c Supt. of doc. '41

Occupational disease hazard; evaluation in the field. W. A. Cook. bibliog Ind Med 11:193-7 Ap '42

Outline of an industrial hygiene program. Ind Med 11:448-54 S '42

Overcoming fatigue. Nat Safety N 45:176+ Mr '42

Phenyl mercuric oleate; skin irritant properties. C. P. McCord, S. F. Meek and T. A. Neal. J Ind Hygiene 23:466-9 D '41

Potential health hazards of the leather industry. W. J. McConnell, J. W. Fehnel and J. J. Ferry. J Ind Hygiene 24:93-108 My '42

Prevent dermatoses. L. Schwartz. il Safety Eng 83:43-4 Ap '42

Proceedings of the fourth annual Congress on industrial health, Council on industrial health, American medical association, Chicago, Jan. 12-13, 1942. 42p Am. medical assn, 535 N. Dearborn st, Chicago '42

Proposed New Jersey law calls for industrial hygiene department to supervise industrial ventilation where hazards exist. Heat & Ven 38:62 N '41

HYGIENE, Industrial—*Continued*

Protecting plant manpower; practical points on industrial sanitation and hygiene. 70p bibliog(p70) U.S. Dept. of labor, Div. of labor standards, Washington '41

Protection of workers in civilian defense industries against venereal disease. J. G. Townsend. Ind Med 11:12-14 Ja '42

Recent researches in industrial hygiene. L. B. Case. Ind Med 11:250-3 Je '42

Recreation keeps them fit; General electric company. G. H. Pfeif. il Nat Safety N 46:22-3 Ag '42

Representative features of a factory health program. Concrete (mill sec) 50:107-8 Ja '42

Right kind of food dramatized as powerful war-winning aid, Westinghouse Health for victory club. E. Peterson. il Ptr Ink 199:14-15+ Je 19 '42

Safeguarding worker health; Westinghouse electric & mfg. co., East Pittsburgh. T. L. Hazlett. il Factory Management 100:76-7+ Ag '42

Skin sensitivity as a factor in job placement; Colt's patent fire arms manufacturing co. J. H. Biram. Ind Med 11:385-6 Ag '42

Sterilized air cuts illness, gives us better products; Bristol-Myers co. H. C. Jackson. il diag Factory Management 99:81-2 D '41

Studies on the duration of disabling sickness; duration of disability from sickness and nonindustrial injuries among the male employees of an oil refining company with particular reference to the older worker, 1933-39, inclusive. W. M. Gafafer, R. Sitgreaves and E. S. Frasier. Pub Health Rep 57:112-25 Ja 23 '42

Studies on the duration of disabling sickness; duration of disability from sickness and nonindustrial injuries among male workers, disabilities lasting one calendar day or longer. W. M. Gafafer and E. S. Frasier. Pub Health Rep 57:1378-84 S 11 '42

They practice what they preach; Underwriters' laboratories of Chicago. il Safety Eng 84:41-3 Jl '42

Trichlorethylene; hazards and precautions. Nat Safety N 45:54, 56 My '42

Twenty-four hour schedule; hygienic aspects. T. Parran. Safety Eng 83:42 F '42; Same. Management R 31:49-50 F '42

War declared on general illness. H. M. Hall. il Steel 109:48-9+ D 29 '41

War industries face new hazards. L. E. MacBrayne. Factory Management 100:72+ Mr '42

We make 'em relax; abstract. J. F. Clark. Management R 31:269-70 Ag '42

What the men eat; survey at airplane plant reveals faulty diet habits are prevalent. Business Week p73 Ap 18 '42

Women and wartime health problems. M. H. Kronenberg. Ind Med 11:333-6 Jl '42

Women at war; safe practices. il Nat Safety N 46:58-9+ O '42

Women in industry; placement and health maintenance. M. R. Burnell. Ind Med 11:282-3 Je '42

Women work for victory. il Safety Eng 83:6-8 Je '42

Workers stage keep-fit drive; abstract. E. J. Lush. Management R 31:218 Je '42

Working environment. M. A. Snell. il Nat Safety N 45:12-13, 66, 68+ Ja '42

See also

Air conditioning
Benzene poisoning
Coal miners—Diseases and hygiene
Diseases, Industrial
Dust
Dust removal
Electric welding, Arc—Hygienic aspects
Eye—Examination
Factories—Air conditioning
Factories—Lighting
Factory sanitation
Fatigue
Lead poisoning
Lunches, Employees'
Lunchrooms and cafeterias, Employees'
Lungs—Dust diseases
Medical service, Industrial
Mental hygiene, Industrial
Miners—Diseases and hygiene
Noise
Nurses and nursing, Industrial
Physical examinations
Poisons, Industrial
Posture
Printers—Diseases and hygiene
Safety devices and measures
Tellurium—Physiological effect
Temperature—Physiological effect
Toluene—Physiological effect
Tuberculosis

Bibliography

Abstract of the literature of industrial hygiene and toxicology. Published in monthly numbers of Journal of industrial hygiene and toxicology

Abstract subject and author index to volume 23, Journal of industrial hygiene and toxicology. J Ind Hygiene 23:sup213-47 D '41

References on industrial hygiene in relation to national defense and war. Ind Med 11:184, 234, 446 Ap-My, S '42

Study and teaching

Graduate course on industrial health and medicine in war time at Yale university. Science 96:291 S 25 '42

Health and safety courses; New York University center for safety education. Safety Eng 82:42 N '41

Orientation in industrial health; Long Island college of medicine, Brooklyn, New York, announces a series of special sessions. Ind Med 11:419-22 S '42

Teaching of industrial health. Ind Med 11:121-3 Mr '42

HYGIENE, Military. See Military hygiene

HYGIENE, Public. See Public health

HYGRADE Sylvania corporation (now Sylvania electric products, inc.)

Debentures offered. Comm & Fin Chr 155:2184-5 Je 8 '42

HYGROMETERS

Study of the electric hygrometer. R. N. Evans and J. E. Davenport. bibliog diags Ind & Eng Chem Anal ed 14:507-10 Je 15 '42

See also

Humidity

HYGROSCOPICITY

Hygroscopic properties of clothing in relation to human heat loss. J. H. Nelbach and L. P. Herrington. Science 95:387-8 Ap 10 '42

HYPERTENSION. See Blood pressure

HYPNOTICS

Acid amides as hypnotics; barbituric acids. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2991-3 N '41

5-Ethyl-5-(α-thienyl)-barbituric acid. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2945-6 N '41

See also

Anesthetics
Narcotics

HYPOCHLORITES

Chemistry of chlorites. J. F. White, M. C. Taylor and G. P. Vincent. bibliog(57 references) il Ind & Eng Chem 34:782-92 Jl '42

Factors affecting the germicidal efficiency of hypochlorite solutions. A. S. Rudolph and M. Levine. diags Iowa Eng Exp Sta (Ames) Bul 150:1-48 bibliog(p40-1) '41

HYPOIODITES

Sterols; the hypoiodite oxidation of pregnanolones and pregnenolones. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1842-3 Ag '42

HYPOSULFITES

Thermodynamic constants of the dithionite (hydrosulfite) ion. W. G. McMillan, jr., J. D. Roberts and C. D. Coryell. bibliog Am Chem Soc J 64:398-9 F '42

HYSTERESIS

Analytic approach to the hysteresis loop; using differential analyzer. C. N. Weygandt and S. Charp. diags Elec Eng 61:387-8 Jl '42

Hysteresis torque in elliptically polarized fields. F. J. Beck, jr. and J. G. Clarke. diags J Ap Phys 12:860-6 D '41

HYSTERESIS (mechanics)

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. diags Engineering 153:478-80, 498, 500, 519 Je 12-26 '42; Excerpts. Engineer 173: 477-80 Je 5 '42

Discussion of dynamic methods of testing concrete with suggestions for standardization. L. Obert and W. I. Duvall. diags Am Soc T M Proc 41:1053-70; Discussion. 1071 '41

Modulus of elasticity and damping capacity of iron and iron alloys. W. Köster. Engineer 173:514-15 Je 19 '42

I

I. G. farbenindustrie A.-G. See Interessengemeinschaft farbenindustrie aktiengesellschaft

ICE

High pressures; boiling hot ice; abstract. P. W. Bridgman. Science 95:sup8-9 F 27 '42

Vapor pressure of ice from 32 to -280 F. J. A. Goff. bibliog Heating-Piping 14:121-4 F '42

See also

Airplanes—Ice protection
Cold storage
Glacial geology
Glaciers
Roads—Ice control

Manufacture

Development in the manufacture of ice; tube-ice machine. B. F. Kubaugh. il diags Mech Eng 63:875-8 D '41

ICE cream

Study of the coliform group in ice cream; abstract. H. J. Fournelle and H. Macy. Food Ind 14:113-14 O '42

Use of soya lecithin will save scarce fats. J. Stanley. bibliog Food Ind 14:69-71 Jl '42

Manufacture

Data and regulations on use of egg yolk. B. I. Masurovsky. Food Ind 14:65+ Ap '42

Pictures of processes; Swift ice cream. Food Ind 14:54-5 S '42

Using fruit purées to get new flavors in ribbon ice cream. D. K. Tressler. il Food Ind 14:49-51+ S '42

Tables, calculations, etc.

How to calculate gallon weights of dairy products. A. J. Hahn and P. H. Tracy. Food Ind 14:55 Je '42

ICE cream delivery

Application of plate type evaporators to truck bodies. A. F. Sawyer. il Refrig Eng 43: 349-50 Je '42

Control island helps to reduce truck costs; Foremost dairies, inc. Jacksonville, Fla. il diag plans Food Ind 14:66-7 Ag '42

Truck design promotes product nationally; National dairy products corp. il Food Ind 14:68-9 O '42

ICE cream industry

First aid to dealers suffering from priorities; Sealtest ice cream. B. Hall. il Ptr Ink 200:72+ S 25 '42

Ice cream outcry; trying to get sugar allotment increased. Business Week p56-7 Je 13 '42

Ice cream; sale, name and address of manufacturer on wrappers, local board of health regulation upheld. Pub Health Rep 57:1360-2 S 4 '42

ICE flow. See Glaciers

ICE machines

Development in the manufacture of ice; tube-ice machine. B. F. Kubaugh. il diags Mech Eng 63:875-8 D '41

FlakIce machines in units. C. P. Holley. il Refrig Eng 43:23-4 Ja '42

ICE on reservoirs. See Reservoirs, Concrete—Ice problem

ICE on rivers, lakes, etc.

Crystal structure of pond ice observed with polaroid spectacles. W. S. Von Arx. J Chem Educ 19:478-9 O '42

ICE plants

Hot spot in the ice plant; problem. Power Pl Eng 46:130 My '42; Solutions. diag 46: 106-7 Jl '42

See also

Cold storage warehouses

Power

Making ice with Diesels; some facts and figures. R. Hatfield. il Diesel Power 20: 399-400 My '42

Powering two plants for less than one; Albert brothers. H. A. Stephens. il Diesel Power 20:743-4 S '42

Serota ice co. adds second Diesel. il Diesel Power 20:391-2 My '42

ICE rinks. See Skating rinks

ICELAND

Arctic supply line; shortest and safest way to send aid to Russian and Chinese allies. V. Stefansson. map Fortune 26:64-6+ Jl '42

Iceland past and present. B. Thórdarson. 46p pa 50c Oxford '41

Iceland's district heating system uses water from hot springs. il Heat & Ven 38:48-9 N '41

Iceland's problems. Economist 143:236-7 Ag 22 '42

ICHTHYOSAURIA

New ichthyosaur from the late cretaceous, northeast Wyoming. R. L. Nace. bibliog Am J Sci 239:908-14, pl 1 D '41

ICKES, Harold Le Claire, 1874-

Hand of Ickes in Alaska. L. C. Mann. Pub Util 28:731-41 D 4 '41

Secretary Ickes designated by President, National defense solid fuels coordinator. Comm & Fin Chr 154:1227 N 27 '41

Someone loves Ickes. por Fortune 26:30+ S '42

ICONOSCOPE

Simple television demonstration system. J. B. Sherman. il diags Inst Radio Eng Proc 30: 8-15 Ja '42

ICTEROHEMORRHAGIC spirochetosis. See Weil's disease

IDAHO

History of southeastern Idaho. M. D. Beal. 443p $3 Caxton printers, Caldwell, Idaho '42

See also

Copper mines and mining—Idaho
Geology—Idaho
Gold mines and mining—Idaho
Mines and mineral resources—Idaho

IDEAS in business

Ideas pirate considers printers gullible victims. il Inland Ptr 108:39-40 F '42

Vice-president-in-charge-of-thinking-about-tomorrow; idea created for an advertisement developed to a nationwide movement of planning for peacetime. il Ind Marketing 27:23+ F '42

See also

Advertising campaigns
Advertising copy
Products, New

IDENTIFICATION

Photographic identification. J. C. Liccion. il Am Phot 36:30-3 Jl '42

IDENTIFICATION of employees. See Employees, Identification of

IDENTIFICATION of products. See Products, Identification of

IDLENESS, Industrial

Where's and how's of better utilization of materials, equipment and labor. P. Jessen. Advanced Management 7:86-90 Ap-Je '42

IGEPON T

Effect of surface-active agents on electroörganic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46: 42-51 Ja '42

IGLOOS for explosives. See Explosives—Storage

IGNEOUS rocks. See Rocks, Igneous

IGNITION

Limits of inflammability and ignition temperature of ethyl mercaptan in air. G. W. Jones, R. E. Kennedy and W. E. Miller. diag U S Bur Mines Rep of Invest 3648:1-6 '42

Limits of inflammability and ignition temperature of styrene in air. G. W. Jones, G. S. Scott and W. E. Miller. pls U S Bur Mines Rep of Invest 3630:1-5 '42

Limits of inflammability and ignition temperatures of nicotine in air. G. W. Jones, G. S. Scott and W. E. Miller. diags U S Bur Mines Rep of Invest 3640:1-5 '42

See also

Combustion

Electric ignition

Explosions

Inflammable mixtures

IGNITRON

Analytical treatment for establishing load-cycle ratings of ignitrons. D. E. Marshall and E. G. F. Arnott. Elec Eng 61:Trans 545-8 Ag '42

Electronic welding control. H. L. Palmer. il diags Electronics 15:36-40+ Ag '42

Ignitor excitation circuits and misfire indication circuits. A. H. Mittag and A. Schmidt, jr. il diags Elec Eng 61:Trans 574-7 Ag '42

Ignitron rectifiers. il Chem & Eng N 20:326-7 Mr 10 '42

Ignitron rectifiers in industry. J. H. Cox and G. F. Jones. bibliog il diags Elec Eng 61: Trans 713-18 O '42

Ignitron rectifiers provide additional power quickly. G. R. McDonald. il diags Mass Transportation 38:180-1 Jl '42

Magnesium production from the sea aided by ignitron. il Sci Am 166:235 My '42

Nickel saving in electronic equipment by lining up crystals; substitution of Hipersil steel. il Sci Am 167:109 S '42

Sealed-tube ignitron rectifiers. M. M. Morack and H. C. Steiner. bibliog il diags Elec Eng 61:Trans 594-9 Ag '42; Same. Gen Elec R 45:459-66 Ag '42

Steel mill applications of rectifiers. M. J. Leding. il Iron Age 149:59 Ap 9 '42

IHRIGIZING process

Ihrigizing makes pump shaft corrosion resistant. diags Product Eng 13:193 Ap '42

ILKOVIČ equation

Validity of the Ilkovič equation in the polarographic analysis of alkali metals and the characteristics of the alkali waves in various media. I. Zlotowski and I. M. Kolthoff. bibliog Am Chem Soc J 64:1297-1301 Je '42

ILLINOIS

See also

Petroleum—Illinois

Petroleum industry and trade—Illinois

ILLINOIS bankers life assurance company

Litigation over stock grows more complicated. Nat Underw (Life ed) 46:8 Jl 17 '42

ILLINOIS Bell telephone company

Annual report. Comm & Fin Chr 155:601 F 7 '42

ILLINOIS central railroad

General traffic statistics and income statement, 1938-1941. Comm & Fin Chr 155:1600 Ap 20 '42

Some attractive junior rail bonds. Comm & Fin Chr 155:1138 Mr 19 '42

ILLINOIS institute of technology

Buildings to come. il Arch Forum 76:sup14 F '42

ILLINOIS terminal railroad

Scrapping of Illinois Terminal held up; WPB wants rail and other equipment. Ry Age 113:618 O 17 '42

Suit filed to block WPB order. Comm & Fin Chr 156:1417 O 19 '42

ILLINOIS university

Aeronautics at the University of Illinois. Science 96:266 S 18 '42

Grants made to the University of Illinois. Science 94:508-9 N 28 '41

Research at the University of Illinois. Science 96:33-4 Jl 10 '42

University of Illinois and the war. A. C. Willard. W Soc E J 47:9-16 F '42; Abstract. Science 95:372-3 Ap 10 '42

Water supply

Rejuvenating wells with chlorine. H. L. White. il Civil Eng 12:263-5 My '42

ILLITE

Heat-of-wetting values of unfired and fired clays. C. W. Parmelee and V. D. Fréchette. bibliog Am Cer Soc J 25:108-12 F 15 '42

ILLITERACY

Education of men of draft age. Science 96: sup10 Jl 17 '42

ILLNESS. See Sickness

ILLUMINATING engineering society

Annual meeting, St Louis. Elec W News ed 118:1015 S 26 '42

Committee officers; portraits. Illum Eng 37: 129-32 Mr '42

Committee on lighting service reorganized. Illum Eng 36:948-9 D '41

General secretary's report, 1940-1941. H. M. Sharp. Illum Eng 36:963-89 D '41

Members of council; portraits. Illum Eng 36:878-80 N '41

President's address. A. D. Cameron. Illum Eng 36:961-2 D '41

Section and chapter chairmen; portraits. Illum Eng 37:3-5 Ja '42

ILLUMINATING engineering society, London

Annual general meeting, May 12. Light & Lighting 35:70 Je '42

New officers elected. Illum Eng 37:393-5 Jl '42

Report of the council. Electrician 128:501-2 My 22 '42

Seeing is believing. R. O. Ackerley. Electrician 129:408 O 16 '42

ILLUSTRATION of books

Drawing for illustration. A. Zaidenberg. 47p pa $1 House of little books, New York '40

500 years of art and illustration; from Albrecht Dürer to Rockwell Kent. H. Simon. 476p $2.98 World pub. co, 2231 W. 110th st, Cleveland '42

ILMENITE

Titaniferous Adirondack ores being reworked. F. J. Oliver. il map Iron Age 149:53-9 Mr 5 '42

IMES, Elmer Samuel, 1883-1941

Sketch. W. F. G. Swann. Science 94:600-1 D 26 '41

IMHOFF tanks

Operation of sewage treatment plants; second revised edition; Imhoff tanks. diags Pub Works 73:50, 52+ O '42

IMIDAZOLE

Associating effect of the hydrogen atom; the N-H-N bond; benziminazoles, glyoxalines, amidines, and guanidines. L. Hunter and J. A. Marriott. Chem Soc J p777-86 N '41

Constitution of purine nucleosides; a new synthesis of xanthine and attempted syntheses of xanthine glucosides from glyoxalines. W. E. Allsebrook, J. M. Gulland and L. F. Story. Chem Soc J p232-6 Ap '42

Glyoxalines; a study of the reaction between benzamidine and phenylglyoxal. R. C. Waugh, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:2028-31 S '42

Glyoxalines; some hydantoins resulting from the reaction between phenylglyoxal and urea and substituted ureas. H. J. Fisher, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:1434-6 Je '42

Preparation of 4(5)-hydroxymethylimidazole. W. J. Darby, H. B. Lewis and J. R. Totter. bibliog Am Chem Soc J 64:463-4 F '42

Reactions of certain thiazoles and glyoxalines with picryl chloride and 2 : 4-dinitrochlorobenzene. J. McLean and G. D. Muir. Chem Soc J p383-6 Je '42

Tautomeric character of the imidazole ring. H. Green and A. R. Day. bibliog Am Chem Soc J 64:1167-73 My '42

IMINONITRILES

Hydrogenation of β-iminonitriles. H. Adkins and G. M. Whitman. bibliog Am Chem Soc J 64:150-4 Ja '42

IMMERSION, Heat of

Energy of immersion of crystalline powders in water and organic liquids. G. E. Boyd and W. D. Harkins. bibliog diags Am Chem Soc J 64:1190-4 My '42

IMMIGRANTS in the United States

Immigrants from Axis-conquered countries. M. R. Davie. Ann Am Acad 223:114-22 S '42

Nation of nations. il Fortune 26:72-3 S '42

Private agencies aiding the foreign-born. M. Schibsby. Ann Am Acad 223:182-9 S '42

See also

Aliens

French Canadians in the United States

Germans in the United States

Italians in the United States

Japanese in the United States

Latin Americans in the United States

IMMIGRATION and emigration

Brazil

Immigration in Brazil. Int Labour R 45:334-6 Mr '42

Great Britain

Migration to and from the British isles; problems and policies. R. S. Walshaw. 94p 5s J. Cape, London '41

United States

Great flight of culture; twelve artists in U.S. exile; portfolio. il Fortune 24:102-15 D '41

See also

United States—Foreign population

IMMUNITY

Equilibria in an antigen-antibody reaction. A. D. Hershey. bibliog Science 95:280-2 Mr 13 '42

Immunity in virus infections. T. M. Rivers. Science 95:107-12 Ja 30 '42

Immunology. N. P. Sherwood. 2d ed 639p $6.50 C. V. Mosby co, St Louis '41

Studies on bactericidal and phagocytic activity of normal human blood on meningococci in relation to the skin test with meningococcus toxins. S. E. Branham, A. P. Hitchens and M. B. Root. bibliog Pub Health Rep 57:1021-31 Jl 10 '42

See also

Antigens and antibodies

Infectious diseases

Vaccines

IMMUNITY (term)

Immunity and resistance. N. J. Giddings. Science 95:553-4 My 29 '42

IMPACT

Behavior of spot welds under impact. A. M. Unger, H. A. Matis and E. P. Gruca. il Welding J 21:sup94-8 F '42

Calculation of a modulus of impact. A. W. Koon. Mod Plastics 20:88 S '42

Contact of colliding surfaces. F. P. Bowden and D. Tabor. Engineer 172:380-2 N 28 '41

Effect of grain size and heat treatment upon impact toughness at low temperatures of medium carbon forging steel. S. J. Rosenberg and D. H. Gagon. bibliog il Am Soc for Metals Trans 30:361-75; Discussion. 375-80 Je '42

Effect of strain rate upon the tensile impact strength of some metals. E. R. Parker and C. Ferguson. bibliog il diags Am Soc for Metals Trans 30:68-80; Discussion. 80-5 Mr '42

High-speed testing. Engineer 172:sup[Metallurgist] 41-2 D 26 '41

Impact specimens for hardened steel. A. S. Jameson. Metal Prog 42:376 S '42

Impact strength of copper. M. Cook and E. C. Larke. Engineering 153:437 My 29 '42

Impact strength of plastic sheet; compounds of copolymer vinyl chloride-acetate resin. C. S. Myers. bibliog il diags Mod Plastics 20:81-7, 116+ O '42

Impact vibrations. L. M. Dekanski. diags Product Eng 13:458-61, 515-18 Ag-S '42

Operational theory of longitudinal impact. L. A. Pipes. diags J Ap Phys 13:503-11 Ag '42

Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42

Tensile-impact resistance of carbon-molybdenum welds at elevated temperatures. O. H. Henry and M. A. Cordovi. il diags Welding J 21:sup416-20 S '42

See also

Elasticity

Strains and stresses

IMPEDANCE

Apparent-impedance method of calculating single-phase-motor performance. W. J. Morrill. diag Elec Eng 60:Trans 1037-41 D '41

Cathode-ray oscilloscope impedance comparator. V. Salmon. diags Electronics 15:54+ F '42

Characteristic impedance of parallel wires in rectangular troughs. S. Frankel. bibliog Inst Radio Eng Proc 30:182-90 Ap '42

Development of an improved impedance measuring box. H. I. Metz. 14p bibliog (p14) U.S. Civil aeronautics authority, Washington '41

Graph of impedance of eccentric conductor cable; reference sheet. W. J. Barclay and K. Spangenberg. Electronics 15:50 F '42

Impedance determinations of eccentric lines; reference sheet. G. H. Brown. Electronics 15:49 F '42

Impedance losses; effect of temperature variation in transformers. M. Nicholson-Steng. Elec R (Lond) 129:671-3 D 12 '41

Impedance magnitude and phase shift curves; two-terminal three-element linear networks; reference sheet. V. L. Edutis. Electronics 15:76-8 N '42

Impedance matching on a sound basis. B. E. Philippsen. diags Radio N 27:18-19+ Ap '42

Impedance-measuring instrument. C. E. Smith. diags Inst Radio Eng Proc 30:362-4 Ag '42

L-type impedance transforming circuits. P. H. Smith. diags Electronics 15:48-52, 54+ Mr '42

Propagation constant and characteristic impedance of high loss transmission lines. K. Spangenberg. Electronics 15:57-8 Ag '42

Self-impedance of a symmetrical antenna. R. King and F. G. Blake, jr. charts Inst Radio Eng Proc 30:335-49 Jl '42

Surge characteristics of tower and tower-footing impedances. R. Davis and J. E. M. Johnston. il diags Inst E E J 88 pt 2: 453-65 O '41

Use of vacuum tubes as variable impedance elements. H. J. Reich. bibliog diags Inst Radio Eng Proc 30:288-93 Je '42

IMPEDANCE, Acoustic. See Acoustic impedance

IMPERIAL chemical industries, limited

Annual report for 1941. Chem Age (Lond) 46:265 My 23 '42; Economist 142:733 My 23 '42

IMPERIAL tobacco company (of Great Britain and Ireland)

Annual general meeting, Bristol. Economist 142:302 F 28 '42

IMPORTING

Finance

Cash drawer; individual problems of business financing. Barron's 22:5 Mr 9 '42

IMPORTS

Civilian and war imports under WPB control. Comm & Fin Chr 155:2210 Je 11 '42

Economic board replaces RFC as buyer of imports. Oil Paint & Drug Rep 141:3 Ap 20 '42

Handicraft imports from the other American republics. S. L. Bull. il For Comm W 5:10-11 N 15 '41

How self-sufficient is the United States? what we must import in sizable amounts and what we have to import entirely; chart. Barron's 21:1 D 29 '41

IMPORTS—*Continued*

Import cargo priority control now complete. Oil Paint & Drug Rep 142:3+ Ag 10 '42
Import control: aid to victory; with lists of materials under order of June 2, 1942. il For Comm W 8:12-13+ Jl 4 '42
Import control; WPB's narrowed list of items that get shipping priorities. Business Week p78-9 Ag 15 '42
Import order M-63 amended to control shipping space. Oil Paint & Drug Rep 142:7 Jl 6 '42
Import war risk rates cut by WSA to levels of Jan. 1. Nat Underw 46:1 Ag 13 '42
Imported materials in paint industry. G. S. Brady. Paint Oil & Chem R 104:56-8 N 5 '42
Importers aided by new OPA rule. For Comm W 8:40-1 Jl 11 '42
Importers allowed to sell above March ceiling to certain users. Oil Paint & Drug Rep 141:3+ Je 29 '42
Imports for civilian, war needs require permit after July 2; with lists of commodities by preferential ratings. Oil Paint & Drug Rep 141:3+ Je 8 '42
Imports for government excepted from price order. Comm & Fin Chr 155:2131 Je 4 '42
Imports sold to U.S. not under ceiling. Oil Paint & Drug Rep 141:3+ Je 15 '42
Imports via RFC; subsidy plan. Business Week p34+ My 23 '42
New import-control plan. For Comm W 7:42 Je 20 '42
Shipping information; list by ports of imports of chemical products, with amounts and consignors. Published in weekly numbers of Oil, paint and drug reporter
Shipping priority on 500 import items. Comm & Fin Chr 156:639 Ag 20 '42
Strategic materials import order revised. Oil Paint & Drug Rep 141:5+ Ap 13 '42
Uncle Sam, sole importer of 14 metals and minerals. Business Week p17 Ja 31 '42
Vast stake in Pacific; sea lanes are roads to vital materials. For Comm W 5:6 D 27 '41
What complete import control will mean. Barron's 22:6 Je 15 '42

See also
Commerce
Tariff

Statistics

Foreign trade in chemicals, nine months of 1941. Chem & Met Eng 49:107 F '42
International trade and finance, 1941. Survey of Cur Business 22:47-51 F '42

U.S. foreign trade during second war year; figures by geographic areas and economic classes, 12 months ended Aug. 1939, 1940 and 1941. A. Maffry. il For Comm W 5:4-5+ N 22 '41

U.S. raw-material imports showed big gains last year. For Comm W 6:28 F 21 '42; Same. Marine Eng 47:140 Mr '42

INCANDESCENT electric lamps. See Electric lamps, Incandescent

INCENDIARY bombs. See Bombs, Incendiary

INCENTIVE taxation. See Taxation—Regulatory taxation

INCENTIVES in industry

Army-Navy awards. il Steel 116:66-71 O 12 '42

Army-Navy E celebrations are what you make them; Independent pneumatic tool co. did an effective job. R. O. McGraw. il Ind Marketing 27:42+ N '42

Army-navy star awarded machine and tool builders. il Steel 110:57 Je 1 '42

Can banks compete with industry in employee compensation? il Bankers Mo 59:152-4+ Ap '42

Case studies in building the will to win. il Factory Management 100:64-71+ Je; 68-73 Jl '42

Flags for the unflagging. il Business Week p20 Ag 1; 22 Ag 15; 50 Ag 22 '42

Getting results; Nelson credits production drive with better-than-schedule record. il Business Week p18-19 Je 20 '42

Incentives cut wiring costs. C. H. Brechin and P. M. Matthews. il Factory Management 100:118-19 My '42
Independent Pneumatic Tool's produce the plus campaign. il Ind Marketing 27:13-16+ My '42
Navy E pennant to Pratt & Whitney. il Aviation 41:133-4 My '42
Navy recognizes additional firms with "E" award. il Steel 110:84 Je 15 '42
Practical wage incentive plan; Sullivan machinery co. H. F. Blake and F. A. Westbrook. Iron Age 148:51-5 D 4 '41
Production campaign unites employees in war effort; victory pledge, company newspaper, attendance contest used by Corbin screw corporation. J. D. Bates, jr. il Ptr Ink 199:17-18 My 22 '42
This is the procedure when you get Army-Navy E award. il Ptr Ink 201:50, 53 O 2 '42
Three Cleveland companies receive joint Army-Navy production awards. il Steel 111:43-4 Ag 17 '42
When wage incentives fail. C. A. Drake. Advanced Management 7:42-4 Ja-Mr '42
You're in the navy now! awards spur workers' patriotic pep; companies awarded navy's Bureau of ordnance flag and E pennant. il Steel 110:48-9 F 9 '42

See also
Bonus system
Employment management—Incentives
Profit sharing
Wage payment plans

INCOME

From saints to sinners. C. S. Rich. Bankers M 145:257-8 S '42
Income as an index of the fiscal capacity of Michigan counties. M. A. Bacon. 78p pa 35c Univ. of Michigan press, Ann Arbor '41
NYSE analysis of income, outgo and balance remaining reveals natural brake on inflation. Comm & Fin Chr 156:812 S 3 '42
Supreme court on federal taxation, 1940-1941; concept of income. R. Magill. bibliog J Account 72:487-99 D '41
Uses of national income in peace and war. S. S. Kuznets. 42p pa 25c Nat. bur. econ. research '42

See also
Capital
Farm income
Profit
Salaries
Wages

Statistics

Business Week's regional income indexes; charts. Business Week p54 Ja 31 '42 [cont monthly]
Changing relation of consumer income and expenditure. R. B. Bangs. Survey of Cur Business 22:8-12 Ap '42
Corporate profits and national income estimates, quarterly, 1938-42. T. Smith and C. Merwin. Survey of Cur Business 22:13-18 Je '42
Current effective buying income for cities with city-zone populations over 100,000; Sales Management's estimates listed alphabetically and by rank. Sales Management 51:68+ O 10 '42
Delaware income statistics; compiled from income tax returns for 1936, 1937, and 1938. v 1 197p Bur. of economic and business research, Univ. of Delaware, Newark, Del. '41
Does consumption lag behind incomes? J. Tinbergen. R Econ Statis 24:1-8 F '42
Estimates of savings of American families; criticism of National resources committee volume, "Consumer expenditures in the United States." R. S. Tucker. R Econ Statis 24:9-21 F '42
Gross flow of finished commodities and new construction, 1929-41. W. H. Shaw. Survey of Cur Business 22:13-20 Ap '42
High wage and salary payments in 1941. Bankers M 145:156 Ag '42
Income and spending and saving of city families in wartime. A. C. Hanson and others. Monthly Labor R 55:419-34 S '42

INCOME—Statistics—*Continued*

Increased income payments; with charts showing disposal of consumer income, 1941 and first quarter of 1942. Survey of Cur Business 22:4-5 My '42

Lost $40 billion; more flowing into high salaries, but most of pressure on prices is coming from those with $5,000 and less. Fortune 26:74-9 Ag '42

Measuring national income as affected by the war. M. Gilbert. Am Statis Assn J 37:186-98 Je '42

National income and the war effort, first half of 1942. M. Gilbert and R. Bangs. Survey of Cur Business 22:10-17 Ag '42

National income, cost of living, and hourly earnings, second half 1940 to first half 1942; table. Survey of Cur Business 22:3 O '42

National income, 1941; with comparisons for earlier years. Survey of Cur Business 22: 11-12 F '42

National income; what it is; how it is measured. C. L. Merwin. il Dun's R 50:16-19+ Ag '42

Our hundred billion dollar income and how it's divided by cities and areas; estimates up to Sept. 30, 1942, together with current population estimates for 229 major cities; with pictograph. Sales Management 51:25, 27-30 O 10 '42

Spending and saving of the nation's families in wartime. A. C. Hanson and J. Cornfield. Monthly Labor R 55:700-13 O '42

Standard error of percentiles. W. D. Evans. Am Statis Assn J 37:367-76 S '42

State distribution of income payments, 1929-41. D. Creamer and C. Merwin. Survey of Cur Business 22:18-26 Jl '42

What it takes to block inflation; excess spending power; how much would have to be done by fiscal means to remove it. A. G. Hart. R Econ Statis 24:101-13 Ag '42

Whose figures do you use? Business Week p70 Ag 8 '42

Canada

Income of average urban family in Canada, pre-war and now. Trusts & Estates 75:355 O '42

Great Britain

National income, 1938-1941. Economist 142: 529-30 Ap 18 '42

Wartime incomes. Economist 143:132-3, 164-5 Ag 1-8 '42; Correction. 143:297-8 S 5 '42

United States

Corporate profits and national income estimates, quarterly, 1938-42. T. Smith and C. Merwin. Survey of Cur Business 22:13-18 Je '42

Find abrupt changes in 1941 income flow. Comm & Fin Chr 156:460 Ag 6 '42

Higher wages feature 1941 national income. Comm & Fin Chr 156:380 Jl 30 '42

Hot money in national income. F. B. Kirkbride. Trusts & Estates 75:33-4 Jl '42

How the Nation will spend its income; government will control consumers' pocketbook in first year of managed economy. J. W. Hazard. Barron's 22:20 Je 15 '42

Individual incomes rise 30% in pre-war to war period. Comm & Fin Chr 156:880 S 10 '42

Lost $40 billion; more flowing into high salaries, but most of pressure on prices is coming from those with $5,000 and less. Fortune 26:74-9 Ag '42

National income and its composition, 1919-1938. S. Kuznets, L. Epstein and E. Jenks. 2v 929p $5 Nat. bur. econ. research '41; Review. Credit & Fin Management 44:24-6 Mr '42

National income and the war effort, first half of 1942. M. Gilbert and R. Bangs. Survey of Cur Business 22:10-17 Ag '42

National income not cut by defense costs, but transferred to new hands. J. F. Wohlgemuth. Nat Underw (Life ed) 46:8 F 20 '42

National income rising, but standard of living falling. E. Blair. Barron's 21:4 N 17 '41

National income; what it is; how it is measured. C. L. Merwin. il Dun's R 50:16-19+ Ag '42

Nation's real income gains during first half of 1942. Bankers M 145:265-6 S '42

New income trends shown by survey. J. Brummett. Nat Underw (Life ed) 46:6 My 15 '42

New responsibilities and new opportunities; changes in the flow of money. P. F. Clark. Spectator (Life ed) 148:16-17 My 21 '42

$19 billions of new money; who is getting it and what are they doing with it? J. D. C. Weldon. Mag of Wall St 70:476-8+ Ag 22 '42

Our hundred billion dollar income and how it's divided by cities and areas; estimates up to Sept. 30, 1942, together with current population estimates for 229 major cities; with pictograph. Sales Management 51:25, 27-30 O 10 '42

Preliminary estimates of gross national product, 1929-41. M. Gilbert and R. B. Bangs. Survey of Cur Business 22:9-13 My '42

Sales Management survey of buying power, 1942; retail sales, effective buying income and other indices of buying power, with census data on population, families, farms, owner-occupied dwellings, rental value. il maps Sales Management 50:9-268 Ap 10 '42

State distribution of income payments, 1929-41. D. Creamer and C. Merwin. Survey of Cur Business 22:18-26 Jl '42

$25,000 or more income received by 50,000. Comm & Fin Chr 155:1781 My 7 '42

War expenditures and national production. M. Gilbert. Survey of Cur Business 22:9-16 Mr '42

INCOME tax

Canadian-U.S. tax convention. Comm & Fin Chr 156:112 Jl 9 '42

Constructive income taxation; a proposal for reform. I. Fisher and H. W. Fisher. 277p bibliog(p249-60) $3 Harper '42

Excess profits tax on individual incomes. H. Gluckstadt. Trusts & Estates 74:254 Mr '42

Income tax liability under various types of income tax, applied to 110 billion dollars of national income, by income groups; table. A. G. Hart. R Econ Statis 24:110 Ag '42

Integration of gift, estate, and income taxes; abstract. P. F. Sherman. Trusts & Estates 73:677 D '41

Ratify U.S.-Canadian income tax convention. Comm & Fin Chr 155:2212 Je 11 '42

U.S. and Canada sign income tax agreement. Comm & Fin Chr 155:1168 Mr 19 '42

See also
Corporations—
Taxation

Accounting

Advertising expense and corporate income tax returns; clarifying explanation regarding deductibility. Ptr Ink 200:19+ S 4 '42; Same. Adv & Sell 35:16a-16b S '42; Same. Ind Marketing 27:32, 35-6 S '42

Corporations and the 1941 taxes. J. K. Lasser. il Dun's R 49:5-14 O '41

Determination of gross income for percentage depletion. J. A. Runser. Min Cong J 27:47+ D '41

Dividends paid from marketable securities of subsidiary. J Account 73:464-5 My '42

Help for new income taxpayers. H. M. Bratter. il Banking 34:42-3 Ja '42

Income tax pointers. J. B. Lowe and J. D. Wright. Banking 34:67-9 F '42

Income taxes in financial statements of proprietorships and partnership. J Account 73:263-4 Mr '42

New tax rulings for investors; deductibility of interest charges; status of selling commissions. L. J. Freeman. Barron's 22:7 Ap 6 '42

Profits or capital tax? inadequate depreciation charges lead to dissipation of capital. F. M. Dannenberg. Trusts & Estates 74: 19-21 Ja '42

Recommendation regarding computation of income taxes of companies changing to a different fiscal year. J Account 74:122-4 Ag '42

INCOME tax—Accounting—*Continued*

Some year-end tax considerations. J. H. Lewis. Comm & Fin Chr 154:1215 N 27 '41

Talent donations ruled non-taxable by Treasury. Comm & Fin Chr 155:1941 My 21 '42

Tax accounting for common trust funds. H. D. Roschen, jr. Trusts & Estates 74:593-7 Je '42

Tax relief for investors proposed; new legislation would permit deduction for fiduciaries' commissions and investment expenses. L. J. Freeman. Barron's 22:7 F 16 '42

Treasury stricter on depreciation of office equipment. Nat Underw 46:8 Ap 9 '42

Treasury suggests amendment to sec. 42 on accrued income. East Underw 43:1+ Mr 13 '42

Using personal tax exemptions. L. J. Freeman. Barron's 22:7 Mr 9 '42

Wartime accounting; government war contracts, wartime financial statements, income taxes, price control, and priorities and allocations. G. N. Farrand. J Account 73:423-6 My '42

See also
Inventories

Capital gains tax

Bad effect of capital gains tax. F. L. Brokaw. Weekly Underw 147:314 Ag 15 '42

Bond salesman looks at taxes. Comm & Fin Chr 155:1527 Ap 16 '42

British treatment of capital gains. G. O. May. J Account 73:502-7 Je '42

Capital gains and losses. G. Y. Billard. Comm & Fin Chr 156:981 S 17 '42

Capital gains tax. H. F. Travis. Mag of Wall St 69:644-5+ Mr 21 '42

Capital gains tax assailed. E. Schram. Comm & Fin Chr 155:344 Ja 22 '42

Capital gains tax defeats own purpose. E. Schram. Comm & Fin Chr 155:1225+ Mr 26 '42

Capital gains tax; desirability of reducing it. Bankers M 144:47-8 Ja '42

Declares pending tax bill will produce no revenue from capital gains. E. M. Friedman. Comm & Fin Chr 156:541 Ag 13 '42

Dispute Treasury views on capital gains tax; proposed impost called unjustifiable. Comm & Fin Chr 155:1631 Ap 23 '42

Fight on gains tax; Boland bill would reduce imposts on capital appreciation as nonproductive of revenue. Business Week p82-3+ Mr 21 '42

Market implications of the new tax bill. L. O. Hooper. Mag of Wall St 71:112-14+ N 14 '42

Objections in France to capital gains tax. A. Istel. Comm & Fin Chr 155:1342 Ap 2 '42

Significance of 1942 tax law to investors. Comm & Fin Chr 156:1618+ N 5 '42

You gain but lose; fight to revise tax on capital gains and losses. Business Week p68-70 My 30 '42

Your new taxes; who must pay, treatment of bad debts and capital gains and losses. L. J. Freeman. Barron's 22:3+ N 2 '42

Collection

Collection of individual income tax at source. R. E. Paul. Trusts & Estates 75:20-1 Jl '42

Favors pay-as-you-go plan; sees value for life insurance people. F. L. Rowland. Nat Underw (Life ed) 46:1 Ag 21 '42

Income tax collection at source. Trusts & Estates 74:543-4 Je '42

Pay-as-you-go taxes; Ruml plan, withholding taxes, and Treasury's proposal to levy on spending. Business Week p15-16 S 5 '42

Ruml pay-as-you-go tax plan. Nat City Bank p102 S '42

Ruml plan. Trusts & Estates 75:209-10 S '42

State Chamber endorses Ruml tax plan. Comm & Fin Chr 156:993 S 17 '42

Support of Ruml pay-as-you-go tax plan advocated by N.Y. chamber of commerce. Comm & Fin Chr 156:1340 O 15 '42

Treasury objections to pay-as-you-go tax plan. Comm & Fin Chr 156:814 S 3 '42

Treasury recommends wage deductions for collecting income taxes at the source. Comm & Fin Chr 155:2038 My 28 '42

Deductions

Ads that support war effort; statement defining Bureau of internal revenue policy regarding deductions for advertising expenditures. il Banking 35:36-8 N '42

Advertising expense and corporate income tax returns; clarifying explanation regarding deductibility. Ptr Ink 200:19+ S 4 '42; Same. Adv & Sell 35:16a-16b S '42; Same. Ind Marketing 27:32, 35-6 S '42

Deductibility of expenditures for air raid protection; Bureau of internal revenue. J Account 74:477-8 N '42

Depreciation adjustments to conform with amounts allowed as tax deductions. J Account 74:454-5 N '42

Employees' trusts under the new tax bill; enactment would compel discontinuance and liquidation. P. G. Evans. Trusts & Estates 75:151-3 Ag '42

Explains deductible advertising expenses. G. T. Helvering. Comm & Fin Chr 156:1171 O 1 '42; Same. East Underw 43:21 O 9 '42

Idea of tax relief for premium payer gains ground. Nat Underw (Life ed) 46:1 Je 5 '42

Liberalizing deductions for family expenses, etc. urged in computing individual income tax. Comm & Fin Chr 155:1344 Ap 2 '42

Move to disallow interest deduction in House; pension plans affected. Nat Underw (Life ed) 46:2+ Je 12 '42

Premium deduction viewed favorably by Senate finance committee members. East Underw 43:4+ Ag 7 '42

Premiums deductible under new Canadian income tax law. East Underw 43:1+ S 4 '42

Propose tax deduction for insurance premiums. Comm & Fin Chr 156:451 Ag 6 '42

Propose tax deductions to aid those meeting abnormal fixed commitments. Comm & Fin Chr 156:716 Ag 27 '42

Proposes tax credit for life insurance premiums. R. Magill. Comm & Fin Chr 155: 1960 My 21 '42

Quit worrying about advertising and taxes. J. K. Lasser. Adv & Sell 35:24+ O '42

State sales taxes ruled deductible from federal tax. Comm & Fin Chr 156:976 S 17 '42

Study amendments to proposed tax measures providing for deductions from taxable income. Comm & Fin Chr 156:472 Ag 6 '42

Tax allowance for life premiums is advocated. C. Adams. Nat Underw (Life ed) 46:5 Ap 10 '42

Tax deductions made for advertising. Comm & Fin Chr 156:810 S 3 '42

Tax relief for investors proposed; new legislation would permit deduction for fiduciaries' commissions and investment expenses. L. J. Freeman. Barron's 22:7 F 16 '42

Treasury rules export advertising deductible. Comm & Fin Chr 156:818 S 3 '42

Payment financing

Another income tax plan; Morris plan bank of Virginia. Bankers M 144:178 F '42

Bank offers plan for paying 1942 income tax month by month; Peoples-Pittsburgh trust company. Comm & Fin Chr 155:124 Ja 8 '42; Same. Bankers M 144:156 F '42

Borrowing to pay income taxes. Bankers M 144:360 Ap '42

Criticizes borrowing to pay income taxes. Comm & Fin Chr 155:1048 Mr 12 '42

Income tax on weekly wages. Chem Age (Lond) 46:191 Ap 11 '42

See also Bonds, Government—United States—Tax savings notes

Canada

Advertising tax rules made clear. Pulp & Pa of Can 43:851 O '42

Avoidance of double taxation: new convention with Canada. J. H. Barkmeier. For Comm W 8:10-11+ Ag 22 '42

INCOME tax—Canada—*Continued*

Canada clarifies position of advertisers concerning income tax liability. Paper Tr J 115:14 Jl 2 '42

Canada combats inflation through new tax rates. For Comm W 9:10-11, 43 O 10 '42

Canada's compulsory savings plan; income tax extension with refundable credits. W. A. McKague. Barron's 22:7 Jl 6 '42

Canada's tax blitz; new Ilsley budget, including forced savings plan. Business Week p39-40 Jl 4 '42

Dominion of Canada income war tax act. 1942 ed 170p pa $1 Commerce clearing house '42

Forced savings in Canada's 1942-43 budget. For Comm W 8:13+ Jl 11 '42

Government explaining method of new income-tax payments. For Comm W 8:16 S 12 '42

France

Objections in France to capital gains tax. A. Istel. Comm & Fin Chr 155:1342 Ap 2 '42

Great Britain

British and American taxation. G. O. May. J Account 74:38-40 Jl '42

British treatment of capital gains. G. O. May. J Account 73:502-7 Je '42

Companies' income tax. Economist 141:722-3 D 13 '41

Income tax. Economist 142:176-7 F 7 '42

Income tax law and practice. C. A. Newport. 13th ed 394p 15s Sweet & Maxwell, London '41

Income tax on weekly wages. Chem Age (Lond) 46:191 Ap 11 '42; Same cond. Electrician 128:335 Ap 10 '42

Local authorities; income tax and excess profits tax. J. H. Burton and C. A. Newport. 134p 8s 6d English universities press, London '42

Wage earners' income tax. Economist 142:563-4 Ap 25 '42

Wartime incomes. Economist 143:132-3 Ag 1 '42

Indiana

Gross income tax, 1942; statistical review. 75p Indiana gross income tax division, Dept. of treasury, Indianapolis '42

Mexico

Income-tax law, 1942. For Comm W 6:16-17 F 28 '42

New law simplifies Mexico's income-tax system. H. P. Crawford. il For Comm W 9:9-10+ O 31 '42

New York (state)

Income tax manual for New York state. W. F. Connelly. 1942 ed 32p pa 50c Harian publications, 158-16 Grand Central parkway, Jamaica Hill, N.Y. '42

Income tax reforms urged by N.Y. chamber. Comm & Fin Chr 155:770 F 19 '42

Individual income taxes; federal and New York state. N. R. Caine. 150p pa $1 Dodd '42

Lehman vetoes quarterly payments of NY state tax. Comm & Fin Chr 155:2031 My 28 '42

New York income and franchise taxes. B. Harrow and I. Sack. 862p $10 Alexander pub. co, New York '41

Urges Lehman support federal tax deduction on state return. Comm & Fin Chr 155:228 Ja 15 '42

Palestine

Income tax established. For Comm W 7:11 Ap 11 '42

Income-tax ordinance amended. For Comm W 7:19 Je 27 '42

United States

Avoidance of double taxation: new convention with Canada. J. H. Barkmeier. For Comm W 8:10-11+ Ag 22 '42

Ax your income tax. 32p pa 25c Arco pub. co., New York '42

Bonds and-or taxes. P. F. Cadman. Banking 34:24-5 F '42

Broadening the tax base. Nat City Bank p65-6 Je '42

Federal income taxes and the gas industry. W. D. Gay. Gas Age 90:53-4+ O 8 '42

Federal taxation of life insurance and annuities. M. D. Bachrach. J Account 74:162-5 Ag '42

Higher taxes on lower incomes needed. M. Shields. Bankers M 144:548-9 Je '42

House group defers withholding tax, raises capital gains and surtax rates. Comm & Fin Chr 155:2038 My 28 '42

House group votes normal tax rise to 6%, joint returns and lower exemptions. Comm & Fin Chr 155:1949 My 21 '42

How states share income tax burdens. Business Week p44 Ag 22 '42

Immediate savings in personal and company taxes. rev ed 27p pa $1 Prentice-Hall '41

Income, estate and gift tax provisions of the Internal revenue code as amended to Oct. 1, 1941. 329p pa $1 Commerce clearing house '41

Income tax instruction manual. D. Joseph. 1942 ed 64p pa 25c Garden City pub. co, Garden City, New York '41

Income tax procedure for individuals. J. F. Sherwood and C. R. Niswonger. 189p $1.60 Southwestern pub. co. '42

Individual income taxes; federal and New York state. N. R. Caine. 150p pa $1 Dodd '42

Individual income taxes, rates for 1941 and 1942. G. B. Bryant, jr. Barron's 22:9 O 26 '42

Joint tax returns rejected; other discussion by Senate. Comm & Fin Chr 156:364 Jl 30 '42

Life insurance and the income tax. J. B. Lowe and J. D. Wright. Banking 34:48-50 Mr '42

Lower exemptions and withholding tax advocated to finance defense. M. S. Eccles. Comm & Fin Chr 155:332-3 Ja 22 '42

1940 income tax returns. Comm & Fin Chr 155:1055 Mr 12 '42

No change in taxes on 1941 income is in contemplation. H. Morgenthau, jr. Comm & Fin Chr 154:1342 D 4 '41

Number of tax-conscious voters rising. Barron's 22:1 Mr 16 '42

Proposed tax increases sharpest on smaller incomes. Barron's 22:1 Mr 9 '42

Public utilities and federal income taxes. W. D. Gay. Pub Util 30:267-76 Ag 27 '42

Question: why tax business? L. Owen. Bankers M 144:202-7 Mr '42

Recommendations for new tax legislation; statement of Walter A. M. Cooper, chairman of the committee on federal taxation of the American institute of accountants, before the Senate finance committee. J Account 74:202-9 S '42

Review of recommendations for revision of the internal revenue code. T. G. Thurston. J Account 73:486-92 Je '42

Salient features of federal income taxes, 1941 style. J. S. Seidman. J Account 73:37-44 Ja '42

Secretary Morgenthau urges end of tax loopholes including tax-exempts; abstracts. Comm & Fin Chr 155:573 F 5 '42; Trusts & Estates 74:139-40 F '42

Special relief in new tax bill. L. J. Freeman. Barron's 22:9 Jl 20 '42

Study by the National bureau of economic research. Nat City Bank p 116-17 O '42

Tax on war profiteering; increases in incomes. Trusts & Estates 75:205-6 S '42

Taxes under new Revenue act to be paid by single and married persons; tabulation. Comm & Fin Chr 156:1646 N 5 '42

Treasury asks cut in income-tax exemption. Comm & Fin Chr 155:1867 My 14 '42

Treasury backflip; adds up to forced savings. Business Week p15-16 S 26 '42

Treasury dept. issues revised tax form. Comm & Fin Chr 154:1337 D 4 '41

Turn the tax clock ahead; proposal for putting personal income taxes on current basis. B. Ruml. Fortune 26:94-5+ S '42

INCOME tax—United States—*Continued*

Twenty billion dollars on the spot; market effects of possible taxation of income from state and municipal bonds. J. S. Williams. Mag of Wall St 69:534-6+ F 21 '42

United States master tax guide, 1942. 288p pa $1 Commerce clearing house '42

Urges to prepare now for victory taxes. H. C. Gretz. Comm & Fin Chr 156:1549 O 29 '42

Utility rate problems arising from recent and prospective income tax legislation. H. J. O'Leary. J Land & Pub Util Econ 18:184-7 My '42

Your income tax. J. K. Lasser. 1942 ed 144p pa $1 Simon & Schuster '42

Your new taxes; who must pay, treatment of bad debts and capital gains and losses. L. J. Freeman. Barron's 22:3+ N 2 '42

Your 1942 income tax guide. H. T. Michael. 32p pa 10c Home service, Reader mail, New York '41

Bibliography

Federal income tax in the United States; a selected list of recent references (supplementary to the Mimeographed list of June 8, 1937). H. F. Conover, comp. 27p U.S. Lib. of Congress, Division of bibliography, Washington '42

Decisions

Agency victory; advertising agency wins surtax case. Business Week p84 D 6 '41

Another tax case causes comment and confusion; taxability of fire insurance proceeds. Nat Underw 46:6 Ap 2 '42

Detroit Edison co.; deduction for depreciation of donated property. A. J. Bruen. J Account 73:277-8 Mr '42

Income tax and the disputed year. M. L. Hayward. Barron's 21:4 D 29 '41

New tax rulings for investors; deductibility of interest charges; status of selling commissions. L. J. Freeman. Barron's 22:7 Ap 6 '42

Supreme court on federal taxation, 1940-1941. R. Magill. bibliog J Account 72:487-99 D '41

Supreme court ruling on tax deductions of reorganized companies. Comm & Fin Chr 155:781 F 19 '42

Tax decision on valued U. & O. form brings furor. Nat Underw 46:4+ Ja 1 '42

U.S. court rules discount in exchange of bonds for stock deductible from income tax. Comm & Fin Chr 156:1272 O 8 '42

W. H. Tomkins co. v. Commissioner; depreciation of auto trucks; deduction of the cost of the initial set of tires in the year of acquisition. J. L. Dohr. J Account 74:287-8 S '42

INCOME tax, State

State income tax collections hitting record highs. Comm & Fin Chr 156:360 Jl 30 '42

State income taxes. R. G. Blakey and V. Johnson. 152p bibliog(p127-30) $3 Commerce clearing house '42

Tax on taxes. T. C. Desmond. Barron's 21:4 D 8 '41

INCORPORATED municipal electrical association

Annual general meeting, London, June 18. Electrician 128:638-40 Je 26 '42; Elec R (Lond) 130:817-20 Je 26 '42

Annual report. Electrician 128:610-12 Je 19 '42; Elec R (Lond) 130:787-8 Je 19 '42

INDANDIONE

Insecticidal properties of 1,3-indandiones; effect of acyl groups. L. B. Kilgore, J. H. Ford and W. C. Wolfe. bibliog Ind & Eng Chem 34:494-7 Ap '42

INDANOL

Preparation of alpha and beta indanol and some of their derivatives from indene. W. F. Whitmore and A. I. Gebhart. bibliog Am Chem Soc J 64:912-17 Ap '42

INDANONE

Structures of certain highly arylated indenones and their behavior with bromine. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2127-30 S '42

INDEMNITY insurance company of North America

Issues new personal theft policy. Comm & Fin Chr 156:1151 S 28 '42

INDENE

Coal by-products; solubilizing effect of hydrogenation upon aromatic-derived resins. W. H. Carmody. bibliog Ind & Eng Chem 34:74-8 Ja '42

Preparation of alpha and beta indanol and some of their derivatives from indene. W. F. Whitmore and A. I. Gebhart. bibliog Am Chem Soc J 64:912-17 Ap '42

Vapor pressures of indene, styrene and dicyclopentadiene. P. E. Burchfield. Am Chem Soc J 64:2501 O '42

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

INDENONES

Structures of certain highly arylated indenones and their behavior with bromine. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2127-30 S '42

INDEPENDENT petroleum association of America

Annual meeting, Wichita. Oil & Gas J 41:24-7 O 22; 27-8 O 29 '42

Conference, Fort Worth, April 23-24. Oil & Gas J 40:63+ Ap 30 '42

INDEPENDENT pneumatic tool company

Independent Pneumatic Tool's produce the plus campaign. il Ind Marketing 27:13-16+ My '42

INDEX numbers (economics)

Accuracy and flexibility with tailor-made indexes. C. A. Mees. Eng N 128:688, 690, 692 Ap 23 '42

Arithmetic monsters and economic absurdities; the omnibus index number. B. Jones. J Account 73:225-34 Mr '42

Barron's business index revised. Barron's 22:1 S 7 '42

Barron's revised annual index. E. Frickey. Barron's 22:20 S 7; 7-8 S 14; 18-19 S 28 '42

Better wage indices for metalworking plants. C. C. Balderston. Mech Eng 64:291-3; Discussion. 293-4+ Ap '42

Boeckh index of construction costs, U.S. average, 1926-'29=100; 1913-1941. Eng N 128:682 Ap 23 '42

Business Week index of business activity. Published in weekly numbers of Business week

Canada; publication of additional statistical series. Fed Res Bul 28:451, 520-1 My '42

ENR construction cost index, 1903-1941. Eng N 128:668-9 Ap 23 '42

Explanatory notes on periodical statistics of cost of living, wages, unemployment, employment and hours of work. Int Labour R 45:104-13 Ja '42

Further notes on the difference between index-number formulas. I. H. Siegel. Am Statis Assn J 36:519-24 D '41

Index-number differences; geometric means. I. H. Siegel. Am Statis Assn J 37:271-4 Je '42

Indexes of the terms of trade between areas in the United States. W. C. Waite. R Econ Statis 24:22-30 F '42

Industrial production index under war conditions. Fed Res Bul 28:642-4 Jl '42

Industry on war footing as it enters 1942; statistical survey: index numbers and charts. Steel 110:212-19 Ja 5 '42

Meaning of productivity indexes. W. D. Evans and I. H. Siegel. Am Statis Assn J 37:103-11 Mr '42

New retail sales index of the Department of commerce. Dun's R 49:31 D '41

Profits, a new series. Economist 142:720-1, 798-9 My 23, Je 6 '42

Special building cost and volume indexes, 1914-1941. Eng N 128:670, 672-3 Ap 23 '42

Stabilised profits. Economist 143:365-6 S 19 '42

Streamlining the utility valuation process during the emergency. C. A. Mees. Pub Util 29:609-22 My 7 '42

INDEX numbers (economics)—*Continued*

Summary table: selected business indicators for specified years and percentage changes, 1929, 1933, 1937, 1939-1941. Survey of Cur Business 22:63-4 F '42

Total transportation index for the United States, 1929-42. L. J. Paradiso and G. Perkel. Survey of Cur Business 22:20-8 S '42

What is the cost-of-living index? Monthly Labor R 55:268-77 Ag '42

See also

Stocks—Price indexes and averages

INDEXES

See also

Periodicals—Indexes

Bibliography

Index to indexes; a subject bibliography of published indexes. N. O. Ireland. 107p $1.75 F. W. Faxon co, Boston '42

INDEXING

Indexing and alphabetizing simplified. V. A. Avery and F. Kraines. 19p pa 50c Pamphlet distributing co, 313 W. 35th st, New York '42

Method of indexing provisions of collective agreements. (Bul. 3) 18p pa $1 California inst. of technology, Industrial relations section, Pasadena '41

Newspaper indexing. H. A. Friedman. 261p bibliog(p245-54) pa $2.50 Marquette univ. press, Milwaukee '42

See also

Files and filing (documents, etc.)

INDEXING (machine work)

Index bases speed milling operations. F. Hartley. diags Am Mach 86:298-9 Ap 2 '42

Index fixture for slotting operations. G. Wilson. diags Mach 48:139 Ja '42

Large gears cut with a slotter. S. Koffsky. diags Iron Age 148:52-3 D 25 '41

Locks for index mechanisms. J. J. Jergens. diags Am Mach 85:1312-13 D 24 '41

Milling-machine indexing. C. A. Felker and H. W. Paine. 88p $1.50 Bruce pub. '42

Rotary indexing press feed. il Steel 110:93+ Ap 20 '42

See also

Dividing (machine work)

INDIA

Anthropological survey of the people of the United provinces of India. Science 95:570 Je 5 '42

India and freedom. L. S. Amery. 122p pa $1.25 Oxford '42

India without fable; a 1942 survey. K. L. Mitchell. 296p $2.50 Knopf '42

India's day of reckoning. J. Nehru. il Fortune 25:67b-67d+ Ap '42

Pageant of India. F. Yeats-Brown. 304p $2.50 Macrae-Smith co, 1712 Ludlow st, Philadelphia '42

Unity of India; collected writings, 1937-1940. J. Nehru. 432p $3 Day '42

See also

Budget—India
Chemical industries—India
Drug trade—India
Insurance—India
Irrigation—India
Labor and laboring classes—India
Labor laws and legislation—India
Leather industry and trade—India
Plastic industries—India
World war, 1939- —India

Board of scientific and industrial research

Organisation of scientific and industrial research in India. S. Bhatnagar. Chem & Ind 60:839-42 N 29 '41

Commercial policy

Developments in varied fields. For Comm W 7:15-16 My 9 '42

India tightly controls its wartime foreign trade. M. C. Moir. il For Comm W 9:10+ N 7 '42

Economic conditions

India in 1941. Economist 142:sup10 Mr 14 '42

Recent developments in India. Int Labour R 45:541-5 My '42

Immigration and emigration

Regulation of Indian immigration into Burma. Int Labour R 45:195-8 F '42

Industries and resources

American economic mission to India. C. L. Wood. il For Comm W 6:4-5, 14-15 Ap 4 '42

India as a war arsenal. F. H. McConnell. map Barron's 22:9-10 Ap 13 '42

Indian open door? Business Week p40-2 Mr 21 '42

India's cashew industry. C. C. Jordan and D. R. Crone. il For Comm W 8:4-7+ Ag 8 '42

India's hour; long-range significance of Cripps mission. il Business Week p34+ Ap 4 '42

India's industrial insects; they produce shellac. D. R. Crone. il For Comm W 8:4-7+ S 26 '42

India's war resources. map Economist 142:607-8 My 2 '42

India's war shops. J. R. Custer. il Automotive & Aviation Ind 87:26-8 S 15 '42

Industries research in foreign countries during 1941. W. A. Hamor. Chem & Eng N 20:103-5 Ja 25 '42

Mission to India renders report. For Comm W 9:17 O 3 '42

Our India. M. Masani. 166p $1.75 Oxford '42

Wartime industrial India. il Chem & Eng N 20:726-9, 748-9 Je 10 '42

Politics and government

Dominion of India? Economist 142:453-4 Ap 4 '42

Frustration in India. Economist 143:451-2 O 10 '42

INDIAN summer

Indian summer. F. Thone. Science 96:sup10-11 O 23 '42

INDIANA

See also

Geology—Indiana

INDIANA academy of science

Annual meeting, 57th, Greencastle, Oct. 30-Nov. 1. Science 94:565-6 D 12 '41

INDIANA service corporation

SEC starts proceedings. Comm & Fin Chr 156:1503 O 26 '42

INDIANAPOLIS, Indiana

Sewerage

Sewerage maintenance notes from Indianapolis. Pub Works 73:43 S '42

Water supply

Administrative problems of water works in wartime. H. S. Morse. Am Water Works Assn J 34:1201-4 Ag '42; Abstract. Eng N 129:103 Jl 16 '42

INDIANAPOLIS gas company

Agreement for sale to city reached. Comm & Fin Chr 155:1214 Mr 23 '42

INDIANS

See also

Inter-American Indian institute

INDIANS of Central America

See also

Mayas—Antiquities

INDIANS of North America

Dr Franklin; friend of the Indians. J. P. Boyd. Franklin Inst J 234:311-30 O '42

Indian in a wartime nation. J. Collier. Ann Am Acad 223:29-35 S '42

See also

Navaho Indians

Antiquities

Exceptional burial in California. P. C. Orr. Science 94:539-40 D 5 '41

INDIANS of North America—Antiquities—*Cont.*

Indian stone enclosures of Colorado and New Mexico. E. B. Renaud. 48p pa 65c Univ. of Denver, Dept. of anthropology, Denver '42

Prehistoric mining in America; Mount Chalchihuitl, New Mexico. E. R. Harrington. il Explosives Eng 19:358-60 D '41

Bibliography

Ethnographic bibliography of North America. G. P. Murdock. 168p pa $2 Yale univ. press '41

Culture

Culture element distributions; northeast California. E. W. Voegelin. (Anthropological records, v. 7, no. 2) 251p bibliog(p251) pa $2.25 Univ. of California press, Berkeley '42

Culture element distributions; Round valley. F. Essene. (Anthropological records, v 8, no 1) 97p bibliog(p97) pa $1 Univ. of Calif. press, Berkeley '42

Government relations

Sixty years of Indian affairs, political, economic, and diplomatic, 1789-1850. G. D. Harmon. 428p bibliog(p383-414) $5 Univ. of North Carolina press, Chapel Hill '41

Health and hygiene

Indians and selective service. J. R. McGibony. Pub Health Rep 57:1-7 Ja 2 '42

Textile industry

Navajo rugs. F. Kutnewsky and C. Holbrook. il Comp Air M 47:6658-62 F '42

Navajo rugs hold unique place in American handicraft industry. F. Kutnewsky. il Rayon 23:31-2 Ja '42

Alaska

Economic conditions among Alaskan Indians and Eskimos. Monthly Labor R 54:647-9 Mr '42

INDIANS of South America

Indians of South America. P. Radin. 324p bibliog(p307-13) $4 Doubleday '42

INDICATOR diagrams

Analysis of miscellaneous indicator cards. Marine Eng 47:164 Ag '42

Defective dry pipe in boiler discovered by indicating engine. R. E. Fontaine. diags Marine Eng 47:132 F '42

Ed's engine works down but not up! indicator card from Fitchburg engine. diags Power Pl Eng 46:78 Je '42; Discussion. 46: 95 Ag; 99-101 O '42

Finding mean effective pressure. G. M. Stearns. diags Oil & Gas J 41:69 O 22 '42

Indicated horsepower from pressure-time diagrams. E. H. Moore. il Diesel Power 20:127-30 F '42

What about this indicator card? diags Power Pl Eng 46:96-8 F '42

INDICATORS

Box-ford dial-indicator stand. il(p317) Automobile Eng 32:316 Ag '42

Locating holes with gage-blocks and indicator. P. J. Adrian. diags Mach 48:146-7 Je '42

Valve position indicator. il Engineer 173:256 Mr 20 '42

See also

Water level indicators

INDICATORS (for gas and oil engines)

Indicated horsepower from pressure-time diagrams. E. H. Moore. il Diesel Power 20:127-30 F '42

INDICATORS (for steam engines)

Application of data from steam engine indicators. G. M. Stearns. diags Oil & Gas J 41:53 O 15 '42

INDICATORS and test papers

Chemical detection of war gases for civilian defense. T. F. Bradley. il diags Chem & Eng N 20:893-6 bibliog(p893) Jl 25 '42

Determination of zinc in rubber compounds; a new internal indicator method. W. P. Tyler. bibliog Ind & Eng Chem Anal ed 14: 114-18 F 15 '42

New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

Sodium salt of quinizarin-6-sulfonic acid as an acid-base indicator. J. H. Green. Ind & Eng Chem Anal ed 14:249 Mr 15 '42

See also

Bromophenol blue

Colorimetric analysis

Sulfonphthaleins

INDIGO

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

INDIUM

Age-hardenable aluminium; effect of indium on various alloys. W. H. Fraenkel. Automobile Eng 32:94 Mr '42

Contributions to the chemistry of indium; hydrolysis constants for indium tribromide and triiodide solutions. T. Moeller. bibliog Am Chem Soc J 64:953-4 Ap '42

Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41

Indium. L. Sanderson. Can Min J 63:156 Mr '42

Indium and indium plating. M. T. Ludwick. il Metal Finishing 40:13-17 Ja '42

Indium solders. Metal Finishing 40:594+ N '42

Indium, unrestricted metal with many uses; silver-indium plating offers advantages in present emergency. M. T. Ludwick. il Steel 111:80-1+ N 9 '42

On the resonance levels for neutron capture of iodine and indium. F. A. Valente. 31p New York univ, New York '42

Radiofrequency spectrum of indium; nuclear spin of In^{113}. T. C. Hardy and S. Millman. bibliog Phys R 61:459-65 Ap 1 '42

INDIUM alloys

Analysis

Analysis of indium alloys. C. W. Hopkins. bibliog Ind & Eng Chem Anal ed 14:638-9 Ag 15 '42

INDIUM bromides

Contributions to the chemistry of indium; hydrolysis constants for indium tribromide and triiodide solutions. T. Moeller. bibliog Am Chem Soc J 64:953-4 Ap '42

INDIUM halides

Structures of the gallium and indium trihalides. D. P. Stevenson and V. Schomaker. Am Chem Soc J 64:2514 O '42

INDIUM iodides

Contributions to the chemistry of indium; hydrolysis constants for indium tribromide and triiodide solutions. T. Moeller. bibliog Am Chem Soc J 64:953-4 Ap '42

INDIUM plating

Indium and indium plating. M. T. Ludwick. il Metal Finishing 40:13-17 Ja '42

Indium plating; abstract. W. S. Murray. Iron Age 150:69 Jl 2 '42

Indium, unrestricted metal with many uses; silver-indium plating offers advantages in present emergency. M. T. Ludwick. il Steel 111:80-1+ N 9 '42

INDIUM salicylate

Basic indium salicylates. T. Moeller. Am Chem Soc J 64:2234 S '42

INDIVIDUALITY

Individuality and science. A. F. Blakeslee. Science 95:1-10 Ja 2 '42

INDO-CHINA, French

French interests and policies in the Far East; part I, Century of French Far Eastern affairs, by R. Levy; part II, French Indo-China in transition, by A. Roth. 206p $2 International secretariat, Inst. of Pacific relations, New York '41

Commerce

Trade agreement ties Indochina's economy to Japan. For Comm W 5:4-5+ N 29 '41

INDOLE

Enzymatic breakdown of tryptophan to indole. F. C. Happold and others. Chem & Ind 61:162-4 Ap 4 '42

Indole. R. B. Van Order and H. G. Lindwall. Chem R 30:69-96 bibliog(419 references, p88-96) F '42

INDOPHENOL

Catalytic properties of charcoal; factors influencing the indophenol reaction. C. Schwob and others. Am Chem Soc J 64:2276-9 O '42

Potentiometric determination of vitamin C; combined use of 2,6-dichlorophenolindophenol and iodate. J. B. Ramsey and E. L. Colichman. bibliog Ind & Eng Chem Anal ed 14:319-21 Ap 15 '42

INDUCTANCE

Formulas for the inductance of rectangular tubular conductors. T. J. Higgins. bibliog diags Elec Eng 60:Trans 1046-50 D '41

Practical radio course; self inductance. A. A. Ghirardi. il diags Radio N 28:34-5+ S '42

Simplified inductance chart; reference sheets. E. S. Purington. Electronics 15:61-2 S '42

Solenoid inductance calculations; reference sheet. T. C. Blow. Electronics 15:63-4 My '42

Vector potential and inductance of a circuit comprising linear conductors of different permeability. T. J. Higgins. diags J Ap Phys 13:390-8 Je '42

INDUCTANCE coils

Recent improvements in air-cored inductances. W. H. F. Griffiths. il diags Wireless Eng 19:8-19, 56-63 Ja-F '42

Simplified inductance chart; reference sheets. E. S. Purington. Electronics 15:61-2 S '42

Testing

Direct-reading impedance comparator. F. M. Leyden and W. R. Baker. diags Electronics 15:88+ N '42

INDUCTION (electricity)

Field strength meter for induction control. M. T. Putnam and S. F. Bushman. il diag Radio N 28:14-16+ Ag '42

Induction control for experimenters; induction transmission becoming increasingly popular. W. T. Peterson. diag Radio N 28:20-1 Jl '42

Surge propagation; mutual induction effects due to surge on a neighbouring line. T. F. Wall. Engineering 153:483-4 Je 19 '42

INDUCTION accelerator. See Electron accelerator

INDUCTION coils

Radio uses of powdered iron cores. bibliog il Electronics 15:35-7, 93-5 F '42

INDUCTION motors. See Electric motors, Induction

INDUSTRIAL accident boards and commissions, International association of. See International association of industrial accident boards and commissions

INDUSTRIAL accidents. See Accidents, Industrial

INDUSTRIAL advertising. See Advertising—Industries, Appeal to

INDUSTRIAL airplanes. See Airplanes, Industrial

INDUSTRIAL allocations. See Priorities and allocations, Industrial

INDUSTRIAL arts

See also

Agriculture
Architecture
Building
Business
Ceramics
Chemical engineering
Chemistry, Technical
Clay products
Commerce
Design
Dyes and dyeing
Electric engineering
Engineering
Factories
Food technology
Foundry practice
Glass manufacture
Industry
Inventions
Machine shop practice
Machine shops
Machinery
Machinery in industry
Manufactures
Masonry
Mechanical engineering
Metal work
Metallurgy
Paint
Painting, Industrial
Paper making
Patents
Photography
Plumbing
Pottery
Printing
Production
Rubber
Shipbuilding
Soap
Tanning
Technical education
Technology
Textile industry
Waste products
Weaving

Bibliography

Basic books on trade connected with war industries. 7p Seattle public lib, Seattle, Wash. '42

National defense; basic books for industrial training. L. A. Eales, comp. 57 numb l Bridgeport pub. lib., Bridgeport, Conn. '41

Training for war. E. D. Hart and J. E. Allerding, comps. Booklist [ALA] 38:397-417 pt 2 Je 15 '42

Study and teaching

Industrial arts courses in the training of an engineer. E. L. Williams. J Eng Educ 32:807-9 Je '42

Bibliography

Partial bibliography of teaching methods in industrial arts education, 1930-40. L. Thompson, comp. 9p Iowa state college lib, Ames '41

INDUSTRIAL automobiles. See Automobiles, Industrial

INDUSTRIAL brushes. See Brushes, Industrial

INDUSTRIAL buildings

Architecture for war production; military aircraft plant in the East; aircraft parts plant in the Midwest. il diag Arch Rec 91:43-52 Je '42

Grid system floor of record spans; service building for Chevrolet motor co. S. D. Szego. il diag Eng N 128:16-18 Ja 1 '42

How to cut structural steel requirements by 40 per cent; welded rigid-frame construction and use of wood purlins. F. W. Mettler. il Steel 111:77-8 S 28 '42

Industrial buildings; building types study; with time-saver standards. il diags plans Arch Rec 91:65-80 Ja '42

Industrial plant buildings; eighth annual special section. Factory Management 100:B37-B90+ Ap '42

Industrial plants; building types study; with time-saver standards. il Arch Rec 91:67-78 Je '42

Patent rights waived on wood sash to speed war-plant construction. il Eng N 128:870 My 21 '42

Producer of production lines: Albert Kahn associated architects and engineers, inc. il Arch Rec 91:39-42 Je '42

See also

Automobile factories
Bottling plants
Chemical plants
Concrete construction
Factories
Foundries
Machine shops
Metallurgical plants
Munition factories
Office buildings, Industrial
Petroleum refineries
Printing offices
Warehouses

INDUSTRIAL chemistry. See Chemical industries; Chemistry, Technical

INDUSTRIAL cooperation

Airplane companies pool resources. il Automotive & Aviation Ind 87:15+ O 15 '42

Bringing small plants into the defense picture; California plan. Burroughs Clearing House 26:3 N '41

California refiners cushion cost rise by consolidation. L. P. Stockman. il Oil & Gas J 41:10-11 Jl 2 '42

Convert your plant to war production; Shenandoah Valley defense cooperative. il Steel 110:40-1+ My 4 '42

Dealers' life rafts; auto agencies of Denver bid for navy contract. Business Week p20 F 21 '42

INDUSTRIAL cooperation—*Continued*

Easy contracting; new system of matching machines and jobs with simplified code. Business Week p41-2+ Je 20 '42

Erie gets in the scrap; salvage campaign in Erie plants. il Factory Management 100:66-8+ F '42

Expediting planes; Aircraft council on West coast exchanges men, plans, materials. Business Week p22+ Jl 4 '42

54 national defense committees now at work in NACM; pooling arrangement in securing government contracts. Credit & Fin Management 44:28-9+ Mr '42

Four bid as one; Four V structural steel companies. Business Week p70-1 F 7 '42

Fuze makers speed output by new kind of cooperation. B. Finney. Am Mach 86:1001-2 S 17 '42

Fuse speedup; new scheme of industry integration. Business Week p80+ S 19 '42

Group coordination, a real solution; five hosiery mills pool experience. Textile World 92:66-7 Ag '42

How a group of small plants went after defense orders; Toledo industries. il Factory Management 99:58-9 D '41

How 19 small plants found war work contracts. A. R. Boone. il Am Business 12:14-16 My '42

Jobs for garages; pooling of shop facilities is urged upon auto dealers of Pennsylvania. Business Week p24 F 7 '42

Lend-lease pooling for frozen equipment; Los Angeles free exchange, operated by the chamber of commerce. J. H. Collins. Pub Util 30:287-91 Ag 27 '42

Los Angeles's war pool. Business Week p68 F 7 '42

Machine shop pools on Pacific coast. C. F. Berry. Barron's 21:5 D 22 '41

Midwestern manufacturers speed conversion to war output. il Steel 110:34-6 Mr 16 '42

Mutual aid for small tools. Engineer 174:285-6 O 2 '42

North Penn plant pool on war orders stimulates 7 towns. T. E. Lloyd. il Iron Age 149:81-3+ Ap 16 '42

Parts manufacturers pool production equipment; group of 25 key companies formed at Detroit. E. L. Warner, jr. Automotive Ind 85:19+ D 1 '41

Pennsylvania plan; regional pooling. Business Week p28 D 27 '41

Plan for organization of small manufacturers for participation in production for war. A. Rodriquez. J Business 15:49-55 Ja '42

Pool is born; Allentown program of joint action on war orders. Business Week p64-7 Mr 7 '42

Pool recipe; rules for getting defense contracts set by Hillman. Business Week p28+ N 22 '41

Power teamwork for victory. il diags plans map Power 86:615-46 S '42

Production aided by interchange of plant personnel and facilities. R. W. Millar. Aero Digest 41:78+ Ag '42

San Jose defense pool: what it is, and how it works. E. Gidlow. Sales Management 51:38-41 S 15 '42

Sharing the tools; yield of surplus equipment from the auto plants falls below expectations. Business Week p26+ S 19 '42

Small pool clicks; De Land, Fla. shows way. Business Week p20+ Jl 25 '42

Small town shops handle a $2,500,000 war contract, DeLand, Fla. B. O'Shea. il Am Business 12:12-13+ Je '42

Successful city-wide sub-contracting program; nearly all of Hagerstown's factory labor is now engaged in aircraft production. il Aero Digest 41:222 O '42

Teamwork wins war contracts; San Jose plan, pool of small shops and manufacturers. il Am Mach 86:47-9 F 5 '42

Tooling up for victory; automotive, aircraft, and machine tool industries join. G. H. Johnson. il Automotive & Aviation Ind 87:88-91+ O 1 '42

The tougher they come. R. A. Foulke. Banking 34:22-4 My '42

U.S. and Canadian unification is expected; plan would coordinate all newsprint mills on continental basis. Paper Tr J 115:9 O 29 '42

War work for idle plants; auto part makers find jobs; metal workers manufacturers committee. R. G. French. il Am Business 12:26-8 Ap '42

Why we scrapped our war production plan; Los Angeles Chamber of commerce. H. W. Wright. il Am Business 12:34-6, 42-3 Ap '42

Ypsilanti bids for war work. R. G. French. il Am Business 12:9-11, 40 F '42

See also

Contracts, Government—Pooling

INDUSTRIAL design. See Design

INDUSTRIAL diamonds. See Diamonds, Industrial

INDUSTRIAL diseases. See Diseases, Industrial

INDUSTRIAL economists. See Economists, Industrial

INDUSTRIAL education

Barriers to Negro war employment. L. B. Granger. Ann Am Acad 223:72-80 S '42

Both employe and company profit from this idea stimulator; industrial education through trade paper reading by key employes of the Glen-Gery shale brick corp. R. E. Eshenaur. Brick & Clay Rec 101:30-3 S '42

Study of industrial teacher education at the graduate level. 42p pa 30c Am. vocational assn, Committee on research, L. H. Dennis, sec, 1010 Vermont av, N.W, Washington, D.C. '41

Trade education versus culture. Sci Am 165:307 D '41

Trade scholarships for young men of the other Americas. For Comm W 8:32 Ag 8 '42

Training for industry. G. J. Davis, jr. J Eng Educ 32:739-45 My '42

War-training formula that works; Great Lakes college. G. E. Stedman. il Steel 111:54-5, 69, 72+ Jl 27 '42

See also

Apprentices
Delehanty institute
Employees, Training of
Engineering education
Foremen—Training
Foundry practice—Study and teaching
Salesmen—Training
Salesmen, Retail—Training
Technical education
Textile education
Trade schools
Vocational education

Cooperative plan

Cooperative training of technical men. W. E. Nightingale. Am Gas Assn Proc 1941:448-9

Groomed for industry; cooperative students at Northeastern university; abstract. W. E. Nightingale. Management R 30:447-8 D '41

Imperial college of science and technology vacation apprenticeship scheme. Chem & Ind 61:51-2 Ja 24 '42

School system aids industrial training; Peoria schools cooperate in training LeTourneau employees. W. J. Brooking. il Iron Age 150:52-5 S 3 '42

Schools pre-train workers; cooperation between the Saginaw steering wheel division of General Motors and the local schools. il diags Am Mach 85:1335-8 D 24 '41

Six Indiana organizations unite to establish school for coal miners. V. Sappenfield. il Coal Age 47:55-6 My '42

Technical high school performs real service in war production training; Detroit's Wilbur Wright high school. G. E. Stedman. il Steel 111:50-2, 54 Ag 31 '42

INDUSTRIAL education—*Continued*

Defense workers

How industry and colleges train methods men; two case studies. il diags plans Factory Management 99:65-72 D '41

Medical aspects of industrial training. W. A. Sawyer. Nat Safety N 46:56+ Jl '42

National vocational defense training program. J. W. Studebaker. Mach 48:151 Ja '42

NYA trains shipyard workers. il Marine Eng 47:104-6 F '42

New York vocation schools train for war production. J. G. McDonald. Comm & Fin Chr 155:1546 Ap 16 '42

Refrigeration companies train industrial war workers. il Refrig Eng 44:89-90 Ag '42

Teacher training for industry; developed and successfully used by the Philadelphia ESMDT group for training industrial teachers. C. C. Aiken and S. B. Lilly. 144p $1.25 McGraw-Hill '42

Threat to TWI; OPM's training within industry program threatened if C.I.O. withdraws its cooperation. Business Week p54-6 N 22 '41

Trained by TVA; sharecropper to journeyman machinist. il Business Week p60-1 N 29 '41

Training and upgrading employees; Manning, Maxwell & Moore, inc., Bridgeport. W. I. Newman. il Factory Management 100:69-70+ Ag '42

Training films for defense workers. Am Business 11:16 D '41

Training welding operators for national defense. J. A. Waln. il Welding J 21:32-40 Ja '42

Training within industry. W. K. Opdyke. Harvard Business R 20 no 3:348-57 [Ap] '42

Training within industry; Westinghouse labor training trades courses. C. D. Moore. il Am Mach 86:79-80 F 5 '42

2,500,000 enrolled for war industry training in 18 months. Steel 110:392-3 Ja 5 '42

U.S. Education bureau produces sound films to assist potential and employed defense workers. Power 86:149a-149b F '42

Vocational training for defense industries. Monthly Labor R 53:1148-53 N '41

See also Technical education—Engineering, science and management defense training

Canada

Machine guns from task operations; Canadian war emergency training system. il Am Mach 86:404-8 Ap 30 '42

Great Britain

Special technical courses for adult workers in Sheffield. Chem & Ind 61:69-70 F 7 '42

INDUSTRIAL efficiency. See Efficiency, Industrial

INDUSTRIAL engineering

Benefits of material standardization. F. G. Jenkins. bibliog Mech Eng 64:545-8+ Jl '42

Engineering training for the operating work of industry. D. S. Bridgman. J Eng Educ 32:566-72 Mr '42

Engineers and management; abstract. G. F. Anderson. Elec R (Lond) 130:403 Mr 27 '42

Engineers' war. Economist 143:81-2 Jl 18 '42

Fundamental aspects of the depreciation problem; symposium. M. R. Scharff and others. Am Soc C E Proc 67:1612-37 N '41; Discussion. 67:1715-21, 1865-78; 68:343-8, 447-74, 583-92, 997-1000, 1155-8 N-D '41, F-Ap, Je, S '42

Manufacturing processes. M. L. Begeman. 579p $4.50 Wiley '42

Production engineer. Economist 142:582 Ap 25 '42

Production engineering. E. Buckingham. 268p $2.50 Wiley '42

Qualifications for operating responsibilities. A. D. Bailey. Mech Eng 63:719-22 O '41; Discussion. 64:232-3 Mr '42

Westinghouse outlines ways to speed production. il Mach 48:262 Jl '42

Work planning in industry [development and promotion of a product principle]. J. K. Louden. Advanced Management 7:98-101+ Jl-S '42

See also

Chemical engineering
Factories—Maintenance and repair
Industrial management
Motion study
Power plants
Time study

Study and teaching

Jobless salesmen become war production expediters; U.S. employment service at Toledo formulated instruction course. E. J. Bodette. Ptr Ink 199:15-17, 59 My 1 '42

Teaching quality control theory to engineers. L. C. Young. J Eng Educ 32:667-72 Ap '42

Tables, etc.

Probability graph paper and its engineering applications. H. Rissik. Engineer 172:276-8, 296-8 O 24-31 '41; Discussion. U. R. Evans. Engineer 173:143 F 13 '42

INDUSTRIAL engineers

Engineers as managers. G. F. Anderson. Electrician 128:283 Mr 27 '42

INDUSTRIAL espionage

Protecting documents from espionage and sabotage. J. E. Hoover. Product Eng 13:85 F '42

INDUSTRIAL fatigue. See Fatigue

INDUSTRIAL heating. See Heating, Industrial

INDUSTRIAL hygiene. See Hygiene, Industrial

INDUSTRIAL hygiene foundation of America

Abstracts of papers presented at 6th annual meeting, Pittsburgh, Nov. 12-13. Ind Med 11:20-3 Ja '42

INDUSTRIAL insurance. See Insurance, Industrial

INDUSTRIAL insurers conference

Annual meeting, 33d, Atlanta, May 7-8. Nat Underw (Life ed) 46:3+ My 8; 4+ My 15 '42; Ins Field (Life ed) 71:11-12+ My 15 '42; Weekly Underw 146:1076 My 9 '42

Industrial insurers meet war conditions. R. Daniel. Weekly Underw 146:100 Ja 3 '42

INDUSTRIAL laws and legislation

See also

Competition, Unfair
Factory laws and legislation
Labor laws and legislation
Patent laws and legislation
Trade marks—Law

INDUSTRIAL lighting. See Factories—Lighting; Lighting, Industrial

INDUSTRIAL management

Management in industry. A. G. H. Dent. Electrician 129:325-7 S 25 '42

Management's role in defense. W. L. Batt. Franklin Inst J 233:125-33 F '42

65 billion man-hours; only if industry substantially increases efficiency, can our labor supply fulfill our war program. A. H. Mogensen. il Fortune 25:76-7+ Mr '42

Task of the executive in modern industry. J. Airey. J Eng Educ 32:472-9 Ja '42

Technical committee system; General electric company. S. H. Blake. Gen Elec R 45:447-50 Ag '42

See also

Bonus system
Budget, Business
Business management
Coal mines and mining—Management
Efficiency, Industrial
Employees' representation in management
Employment management
Employment systems
Factory management
Foremen
Foundry management
Gas companies—Management
Gasoline service stations—Management
Hygiene, Industrial
Industrial engineering
Industrial relations
Inspection
Insurance, Business
Inventories
Job analysis
Machine shop management
Machinery, Replacement of

INDUSTRIAL management—See also—*Cont.*
Mine management
Motion study
Motor trucks—Management
Office management
Organization in industry
Planning
Purchasing
Railroads—Management
Standardization
Suggestion systems
Time study
Wage payment plans

Bibliography

Management index; abstracts. Published in monthly numbers of Management review

INDUSTRIAL market
Industrial marketing and the national defense. T. Berna. Mech Eng 64:213-14 Mr '42
Industrial marketing in a defense economy. J. R. Bangs. Mech Eng 64:211 Mr '42
Industry's search for industrial markets; abstract and discussion. E. Roper. Mech Eng 64:212 Mr '42
Latin America, the next large industrial market. C. Carroll. Ind Marketing 27:38, 40 Ap '42
Markets in 1942 and what to say to them. il Ind Marketing 27:15-18+ Ja '42
Mr Waite goes industrial; Waite firm, industrial plumbing specialists. il Dom Eng 160:44-5+ O '42
No let-up in industrial selling effort now, sales executives declare; oversold sales forces have useful and logical tasks. Ptr Ink 200:15-16+ S 11 '42
Some helpful thoughts on industrial marketing problems in today's war economy. Ptr Ink 198:21-2 Ja 30 '42

See also
Advertising—Industries, Appeal to
Equipment industries
Railroads—Purchasing

INDUSTRIAL medicine. See Medical service, Industrial

INDUSTRIAL mobilization
All business faces period of conversion for war production. A. P. Mills. Ind Marketing 27:34-5 Ja '42
America turns "pro." Barron's 22:3-4 Ja 19; 3-4 F 9; 8 Mr 16; 8 Ap 13 '42
American economic mobilization; a study in the mechanism of war. p427-536 pa 40c Harvard law review assn, Gannett house, Cambridge, Mass. '42
American economic mobilization; abstract. Trusts & Estates 74:35-6 Ja '42
American industry at war; battle of production giving way to battle for raw materials and supplies. Barron's 22:8-9 Ag 3 '42
American industry in a war of machines. J. A. Krout, ed. (Proceedings v. 19, no. 4) 111p pa $2.50 Academy of political science, New York '42
Antitrust war policy and full production. T. Arnold and J. S. Livingston. Harvard Business R 20 no 3:265-76 [Ap] '42
Arms and the aftermath. P. Stryker. 157p $1.75 Houghton '42
Army means business. H. Corey. 298p $2.75 Bobbs '42
Arsenal of the south Pacific: Australia. G. Wood. il Trusts & Estates 74:122-4 F '42
Auto and tire slash only a sample of what industries which use defense materials face; mobilization of the nation's productive powers. E. Blair. Barron's 21:4 D 15 '41
Blackhawk's S.A.S. campaign helps distributors help win the war; organized coöperation of shifting and shunting inventories. B. Hotvedt. il Ind Marketing 27:24-5+ S '42
Brands face ban; Canada weighs policy of suspending trade names; other policies. Business Week p30+ My 30 '42
Britain organizes its production regionally. K. O. Horton. For Comm W 9:10-12+ O 17 '42
Britain's battle for aircraft production. O. Lyttelton. il Aero Digest 41:93-4 Jl '42
Canada and U.S. synchronize efforts for war in exchange of facilities; Joint war production committee of the United States and Canada, first report. Steel 111:63 Ag 3 '42
Canada fights. C. M. Short. Banking 34:30-1 Ap '42
Canada-United States cooperation in war production. Roads & Bridges 80:86-8 Ag '42
Challenge and the choice. D. M. Nelson. Fortune 25:123-4 Ja '42
Chem & Met report on war-time construction in chemical process industries. Chem & Met Eng 40:99-106 Jl '42 [reprints 25 cents]
Concentration on war production. Nat City Bank p13-15 F '42
Conversion, American industry's number one job. E. Whitmore. il Am Business 12:9-11, 44-5 Mr '42
Conversion, conservation, control. Mod Packaging 15:41-2+ Mr '42
Debate on production; statements made in the House of commons by the Minister of production and the Minister of supply. Engineer 174:67-70 Jl 24 '42
Donald M. Nelson made responsible for war production program by executive order. Comm & Fin Chr 155:345 Ja 22 '42
Donald Nelson sets new and higher goals for war production. E. Blair. Barron's 22:4-5 Ap 13 '42
Economic activity, further expansion and conversion. Fed Res Bul 28:625-30 Jl '42
Efforts to place blame for delays in war production indicate all groups were at fault. E. Blair. Barron's 22:4 Mr 30 '42
Enterprise of England. Economist 141:493-4 O 25 '41
Factory plant and equipment expenditures over a quarter century. L. J. Chawner. il Dun's R 50:11-15+ O '42
Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42
From industrial mobilization to war production. H. N. Gilbert. Harvard Business R 21 no 1:124-36 [S] '42
Full conversion to war production expected within seven months. il Steel 110:32-4 Mr 2 '42
G.E. does it; it has shouldered a unique martial burden without altering its stride. il Fortune 25:64-9+ Mr '42
Getting results; Nelson credits production drive with better-than-schedule record. il Business Week p18-19 Je 20 '42
Give us orders! and we'll solve production. il Fortune 25:58-62+, 63 Mr '42
Give us the tools; a study of the hindrances to full war production and how to end them. 191p 6s Secker & Warburg, London '42
Handbook of war production. E. A. Boyan. 368p $3 McGraw-Hill '42
How England utilizes small plants in war work. A. J. Liebling. Steel 110:54-5, 82+ F 9 '42
How Michigan works for victory. F. H. McConnell. il map Barron's 22:11-14 My 18 '42
How subcontracting can be made to work. il Factory Management 100:58-60+ Mr '42
How your business can help win the war. H. W. Barclay, ed. 111p pa $1 Simon & Schuster '42
Impact of defense upon industrial capacity and investment. M. J. Meehan. Am Statis Assn J 37:22-33 Mr '42
Increased production begun at FDR's order. Comm & Fin Chr 155:948 Mr 5 '42
Increasing productivity and technological improvements in defense industries. L. A. Epstein and I. H. Siegel. bibliog Monthly Labor R 54:34-48 Ja '42
Industrial conservation in the first World war. S. Stewart. Monthly Labor R 54:16-33 Ja '42
Industrial revolution of 1942; elimination of competition with war production. Trusts & Estates 74:117-19 F '42
Industry faces it; it's conversion or else. Business Week p17-18+ F 21 '42
Industry's best effort in the last war. W. R. Kuhns. Banking 34:75-6 F '42
Inroads on civilian production. Nat City Bank p61-2 Je '42
Is subcontracting the answer? L. L. Bollinger. Harvard Business R 20 no 2:171-83 [Ja] '42

INDUSTRIAL mobilization—*Continued*
Joint war effort; Canadian-U.S. production. Business Week p32-3 D 20 '41
Labor-management committees. K. Earnshaw. Trusts & Estates 74:446-8 My '42
Let's turn on the steam and get out the goods. W. S. Knudsen; D. M. Nelson. Chem & Met Eng 48:86-7 N '41
Major problem of industrial conversion to meet war needs still lies ahead. Comm & Fin Chr 155:2039 My 28 '42
Management's role in defense. W. L. Batt. Franklin Inst J 233:125-33 F '42
Marching orders for business. Business Week p13-14 D 13 '41
Materials melt as defense goes into high gear. J. Garth. il Am Business 11:34, 36-8 N '41
Maximizing production. Trusts & Estates 73: 581-2 D '41
Mr Lyttelton's plans. Economist 143:501-2 O 24 '42
Mobilization of capacity and resources of small-scale enterprises in Germany. E. Grunberg. bibliog J Business 14:319-44; 15: 56-89 O '41-Ja '42
Mobilization of industry and labor in Great Britain. Monthly Labor R 55:25-41 Jl '42
Mobilization of the home front; the British experience and its significance for the United States. E. H. Biddle. 47p pa 60c Public administration service, 1313 E. 60th st, Chicago '42
Mobilizing Canada's resources for war. A. F. W. Plumptre. 306p $3.25 Macmillan '42
More, and faster, now. K. K. Stowell. Arch Rec 91:37 Mr '42
Nelson carries out single-man control. E. Blair. Barron's 22:4 Ja 26 '42
Nelson urges creation of war liabilities board to bring small business into war effort. Comm & Fin Chr 156:1271 O 8 '42
Nelson will brook no delays or slowdowns by managements or by labor. E. Blair. Barron's 22:4 Mr 16 '42
Nelson's program further speeding up production on several points. E. Blair. Barron's 22:4 F 23 '42
New defense facilities. J. D. Wilson. Survey of Cur Business 21:10-17+ N '41
Official plan book, war production drive. 27p U.S. War production board, Washington '42
Organization of science for war production. E. D. Swann. Chem & Ind 60:813-14 N 15 '41
Our war production job. G. T. Trundle, jr. Credit & Fin Management 44:7-9 Jl '42
Plant conversion no. 1 problem for industry. Comm & Fin Chr 155:769 F 19 '42
Plowshares into swords; making over industry. F. C. Crawford. Trusts & Estates 73: 602-3 D '41
Pooling of allied resources on engineering basis in effect replacing lease-lend. E. Blair. Barron's 21:4 D 29 '41
President Roosevelt acts to combine U.S. and Canadian war-time production. Comm & Fin Chr 155:32 Ja 1 '42
Prisons enlist; California shows the way; unions help launch training courses. Business Week p62+ Je 6 '42
Private enterprise and Hitler's defeat keynote addresses at NAM convention. D. M. Nelson. Comm & Fin Chr 154:1686 D 27 '41
Problems posed for industry. C. A. Bliss. Ann Am Acad 220:106-15 Mr '42
Producing for war. 121p 80c Research inst. of Am, New York '42
Production drive, with caution. Business Week p15-16 Mr 21 '42
Production effort now being geared to specific needs rather than for unlimited output. E. Blair. Barron's 22:4 Je 15 '42
Production offensive must be first. D. M. Nelson. Comm & Fin Chr 155:1155 Mr 19 '42
Production planning for a war economy. M. A. Copeland. Ann Am Acad 220:94-105 Mr '42
Production problems; securing an increase in productivity. Economist 141:526-7 N 1 '41
Production to the hilt. Economist 142:852-3 Je 20 '42
Recent developments in joint production machinery in Great Britain. Int Labour R 46:284-98 S '42
Regional board; report of Sir Walter Citrine's committee. Engineer 173:456-8 My 29 '42
Regional organisation for production. N. V. Kipping. Engineer 174:316-17 O 16 '42
Revolution in raw materials. L. Stern. il Mag of Wall St 70:489-92, 513-14 Ag 22 '42
Scheduled output; material pinch puts new emphasis on flow rather than on priorities. Business Week p19-20+ Ag 22 '42
Shadow of coming events; Canada shows the way in transition to full war production and controls. V. L. Horoth. il Mag of Wall St 69:134-6+ N 15 '41
Shop drive grows; WPB production committee plan. Business Week p68-70 Ap 18 '42
Small business and the war. Marine Eng 47:247-8 O '42
Small business in the war program. P. R. Nehemkis, jr. Bankers M 144:47 Ja '42
Small business, its contribution to the war effort and problems. Index 22 no 3:49-57 [S] '42
Smaller war plants bill passes Congress. Oil Paint & Drug Rep 141:5+ Je 1 '42
So goes Canada. Business Week p32-3 Ja 10 '42
Some problems of production. A. Woodburn. Engineer 173:306-7 Ap 10 '42
Story that must be told. J. H. McGraw, jr. Business Week p44-5 Je 27 '42
Strategic factors in plant location. E. M. Hoover, jr. and G. E. McLaughlin. map Harvard Business R 20 no 2:133-40 [Ja] '42
Sweeping implications of shift in U.S. war production policy. J. D. C. Weldon. il Mag of Wall St 70:216-18+ Je 13 '42
Technological high command. il Fortune 25: 62-7+ Ap '42; Same. Inst Radio Eng Proc 30:309-18 Jl '42
Ten silver months; we must make today the things we would be making next year. J. H. McGraw, jr. Business Week p36-7 Mr 7 '42
Textile revival; unusual (but not typical) turn in Britain's war business. Business Week p26+ My 30 '42
These machines went to war; these machines stayed home. J. F. Nesbitt. il Comp Air M 47:6813-14 Ag '42
Truth about WPB's big production drive. il Am Business 12:11-13, 40-1 Ap '42
⅔ for defense, ⅓ for civilians. W. Gates. il Mag of Wall St 69:123-5+ N 15 '41
Unessential production. Economist 142:727 My 23 '42
U.S., Canada set up coordination board. Comm & Fin Chr 154:1128-9 N 20 '41
United States industry quickly accepts President's war production program. Comm & Fin Chr 155:228 Ja 15 '42
Urges industry to turn tide of war. W. P. Witherow. Comm & Fin Chr 155:1062 Mr 12 '42
Urges management, labor to speed arms. D. M. Nelson. Comm & Fin Chr 155:1064 Mr 12 '42
Utilization of plant facilities under national defense program. M. Levine and V. W. Casey. Monthly Labor R 53:1140-7 N '41
Victory cannot be bought; organizing machines, materials, and manpower is crucial. chart Fortune 25:60-1+ F '42
Visit to Detroit converts writers to enthusiasm for auto plants' conversion. E. Blair. Barron's 22:4 F 9 '42
War concentrates industry; British plan for boosting arms production. Business Week p30-2 D 20 '41
War demands blanket country's basic industries. il Steel 110:232-5, 406-24 Ja 5 '42
War financing; act to mobilize productive facilities of small business. Fed Res Bul 28:635-41 Jl '42
War production. 56p pa 15c Congress of industrial organizations, Dept. of industrial union councils, 1106 Connecticut av, NW, Washington, D.C. '42

INDUSTRIAL mobilization—*Continued*

War tempo speeding up in capital as immediacy of war needs is realized. E. Blair. Barron's 22:4 My 25 '42

War victory needs expanded production. D. M. Nelson. Comm & Fin Chr 155:847 F 26 '42

Wartime national efficiency. G. A. Gaherty. Elec Eng 61:547-50 N '42

Wartime production of civilian goods in England. Manuf Rec 111:34-5 O '42

What a 60-40 guns-butter ratio might mean; British experience gives some clues. Barron's 22:1 S 28 '42

What is being done in defense work. A. P. Sloan, jr. Nat Underw 45:3+ D 11 '41; Same. Nat Underw (Life ed) 45:6+ D 12 '41

What SOS expects of industry. B. B. Somervell. il Factory Management 100:74-7 S '42

What's ahead for industry, and why. D. M. Nelson. il Factory Management 99:50-2, 52A-52D, 53 D '41

Work; address to Chamber of commerce of the United States. J. H. Jones. For Comm W 7:8-9 My 9 '42

Your business goes to war. L. M. Cherne. 496p $3.50 Houghton '42

Your career in defense. S. C. Davis. 311p $2 Harper '42

Your job and American victory. T. Barrett. 294p $2.50 George W. Stewart, 67 W. 44th st, New York '42

See also

Automobile industry and trade—Munitions manufacture

Contracts, Government—Subcontracting

Incentives in industry

Priorities and allocations, Industrial

Smaller war plants corporation

United States—War production board

Bibliography

Industrial mobilization. A. L. Baden, comp. 22p U.S. Lib. of Congress, Division of bibliography, Washington '41

Production for war. Cleveland Pub Lib Business Information Bur v 13, no 3:1-4 Je '42 (pa 10c)

Tools of victory for the battle of production. 100p pa 50c Detroit public lib, Technology dept, Detroit '42

Concentration policy

Britain has cut unessential production to as little as 10% of normal to achieve war output; concentration of production. Comm & Fin Chr 156:1720 N 12 '42

Concentrating civilian output. Business Week p15-16 Jl 25 '42

Concentration and rationalization of industries in Germany. For Comm W 7:3-4+ Je 20 '42

Concentration of industry. Economist 141: 615-16 N 22 '41

Concentration of industry. H. Bratter. il Banking 35:24-5 N '42

Concentration of industry to be based on standards. P. G. Agnew. Ind Stand 13:241-2 O '42

Concentration of production. J. L. Weiner. Oil Paint & Drug Rep 142:7+ O 26; 7+ N 2 '42

England concentrates food manufacturing. Food Ind 14:42+ O '42

England's lesson in concentration. Textile World 92:64 Ag '42

Get set for concentration; abstract. P. W. Collins. Management R 31:366-8 N '42

If cross-hauling goes, how will it affect advertising? P. T. Cherington. il Adv & Sell 35:13-15+ N '42

Nucleus company, new straw in the wind; concentrated manufacture, its import to advertisers. L. D. H. Weld. Ptr Ink 201: 22+ N 6 '42

Nucleus plan here; committee drafts industry concentration plans. Business Week p17+ S 12 '42

Problems you will face if your industry is concentrated. J. Reiss. Sales Management 51:18-20, 58-9 N 1 '42

Production concentration plan given to WPB committee. Oil Paint & Drug Rep 142:3+ Ag 31 '42

Progress of concentration. Economist 143: 260-1 Ag 29 '42

Transportation a factor in concentration. E. A. Leveille. Paint Oil & Chem R 104: 72-4 N 5 '42

WPB studies concentration plans. T. J. McBreen. Paper Ind 24:697-700 O '42

WPB's hot potato; semiconcentration in farm machinery. Business Week p16-17 O 31 '42

Would close some supply factories; concentration, to squeeze out many concerns, is under study by WPB. Ry Age 113:705-6 O 31 '42

INDUSTRIAL museums

See also

Museum of science and industry, New York

INDUSTRIAL nursing. See Nurses and nursing, Industrial

INDUSTRIAL office buildings. See Office buildings, Industrial

INDUSTRIAL pensions. See Pensions, Industrial

INDUSTRIAL poisons. See Poisons, Industrial

INDUSTRIAL priorities. See Priorities and allocations, Industrial

INDUSTRIAL rayon corporation

Consolidated earnings, 1941. Comm & Fin Chr 155:601 F 7 '42

Stocks in strategic market position. Mag of Wall St 69:707 Ap 4 '42

INDUSTRIAL relations

All clear on the labor front. Business Week p72-3 D 13 '41

Annual reports to employees go to war. il Ptr Ink 199:16-17 My 15 '42

Are war production drives worth while? Factory survey. il Factory Management 100: 74-80 O '42

Basic problems in labor relations. H. Cuthrell. Gas Age 89:16-18 Je 4 '42

Boston's plan; experiment in industry-labor relations. Business Week p66+ Mr 28 '42

Cement workers' attitude on management. W. Schoenberg. Rock Prod 45:28 Ap '42

Dealing with organized labor. J. C. Cameron. Personnel J 20:205-13 D '41

Dynamics of industrial democracy. C. S. Golden and H. J. Ruttenberg. 358p bibliog (p349-51) $3 Harper '42; Review, by J. Landgraf. Mech Eng 64:741+ O '42

80 points about technological changes; digest and commentary on report by J. W. Riegel. Personnel J 21:122-30 O '42

Employe attitude survey. J. C. Staehle. Bankers M 144:445-6 My '42

Employee and good will. E. L. Bayles. Edison Elec Inst Bul 9:441-3 N '41

Employer-worker participation in the war effort in the United States. Int Labour R 46:453-7 O '42

Fair employment group transfer explained. Comm & Fin Chr 156:728 Ag 27 '42

Government of labor relations in Sweden. J. J. Robbins. 367p $3.50 Univ. of North Carolina press, Chapel Hill '42

Group insurance as an industrial relations factor. J. M. Campbell. Aero Digest 41:130+ S '42

Human interest in annual reports is aid to employe relations. C. D. Pendergrast. il Inland Ptr 108:43-6 F '42

Human relations in business. Published in monthly numbers of American business

Human relationships in industry. B. M. Selekman. il Textile World 92:73 O '42

I'm glad I'm an oil man; oil industry from the standpoint of the employe. G. Biggs. il Oil & Gas J 41:38-9 O 22 '42

Importance of employee information. B. V. Drake. Special Lib 32:342-4 N '41

Industrial relations and the determination of conditions of employment in wartime. I. Bessling. bibliog Int Labour R 46:525-68 N '42

Industrial-relations policy of Navy department. Monthly Labor R 55:719-20 O '42

Industrial war effort depends on labour relations. H. Crabtree. Pulp & Pa of Can 42:765, 820 D '41

INDUSTRIAL relations—*Continued*

Industrial world of tomorrow. Management R 30:434-6 D '41

Industry-labor group pledges war unity. Comm & Fin Chr 156:373 Jl 30 '42

Joint production committees for Royal ordnance factories in Great Britain. Int Labour R 45:552-4 My '42

Labor crisis. Nat City Bank p135-9 D '41

Labour-industry conferences in the United States and the no-strike agreement. Int Labour R 45:182-6 F '42

Labor relations and the war. H. Feldman, ed. Ann Am Acad 224:1-195 N '42

Labor's fight for power. H. Klein. il Iron Age 149:72-5+ Ja 1 '42

Labor's response to management. J. B. Fox. Harvard Business R 21 no 1:95-9 [S] '42

Laws and men in labor relations. A. H. Myers. Harvard Business R 21 no 1:83-94 [S] '42

Management and labor must win the war through production. J. F. Lincoln. Mach 48:207 Ap '42

Management looks at the labor problem. il Business Week p68-90 S 26 '42

Merchant marine on the alert for safety; human failure in leadership and in the chain of command. E. C. Holden, jr. Weekly Underw 146:484-6 F 28 '42

Michigan's labor turns to making guns; present emergency is believed to be sweetening industrial relations. il Barron's 22:15-16 My 18 '42

My life in industrial relations; fifty years in the growth of a profession. C. J. Hicks. 180p $2.50 Harper '41

N.A.M. offers labor relations principles. Comm & Fin Chr 154:1340 D 4 '41

New management views in today's hysteria. O. G. Van Campen. Advanced Management 7:61-6+ Ap-Je '42

Nurse's part in the industrial relations program. T. O. Armstrong. Ind Med 11:239-41 My '42

Papers presented at the fourth annual Stanford industrial relations conference, March 24-28, 1941. 288p Division of industrial relations, Graduate school of business, Stanford University, Calif. '41

Peace for war; labor and industry seek formal settlement of differences. Business Week p14 D 20 '41

Personnel management and industrial relations. D. Yoder. 848p $5.65; school ed $4.25 Prentice-Hall '42

Postwar problems and industrial relations. L. L. Lorwin. Advanced Management 6:138-44 O-D '41

President accepts industry-labor ban on strikes; closed shop issue remains. Comm & Fin Chr 154:1641+ D 25 '41

Proceedings of the sixth Industrial relations conference of the Industrial relations section, Queen's university, Sept. 18-20, 1941. 53p pa $1 Queen's univ, Kingston, Ontario '41

Put drive into production; abstract. A. M. Staehle. Sales Management 51:55-6 Jl 15 '42

Putting your workers right in the defense picture. W. G. Caldwell. il Am Business 11:9-11+ D '41

Recent developments in joint production machinery in Great Britain. Int Labour R 46:284-98 S '42

Responsibility of the engineering college for present chaos in industrial relations. T. W. Prior. J Eng Educ 32:467-71 Ja '42

Right and wrong in labor relations. W. M. Leiserson. 86p $1 Univ. of California press, Berkeley '42

Role of management as employer. R. W. Stone. J Business 14:11-26 pt 2 O '41

Sharing information with employees. A. R. Heron. 204p $2.50 Stanford univ. press '42; Review (What to tell employees, and how). Ry Age 113:176-8 Ag 1 '42

Shipyard morale. R. J. Scanlon. Personnel J 21:23-33 My '42

Significant labor developments. Factory Management 100:69+ Mr; 89+ My; 83+ Je; 83+ Jl; 105+ S; 109+ O; 109+ N '42

Soldier contacts; programs to keep company zeal burning in employees until they return. Business Week p76+ F 7 '42

Strategy of hate; attack on labor and industry. B. M. Selekman. Harvard Business R 20 no 4:393-401 [Jl] '42

Studies in economics and industrial relations. W. C. Mitchell and others. 183p $2 Univ. of Pennsylvania press, Philadelphia '41

This labor-management hookup gets things done; CIO die casters and Doehler die casting company. J. Garth. il Am Business 12:9-11 Jl '42

Time now for brass tacks in employee relations. W. Williams. Factory Management 100:84-5+ F '42

Union-management co-operation on the B. & O. Ry Age 112:780-1 Ap 18 '42; Discussion. O. S. Beyer. 112:907 My 9 '42

Union participation in national defense. C. S. Slocombe. Personnel J 20:254-9, 287-93 Ja-F '42

Union policies in wartime. S. Barkin. Personnel J 21:54-65 Je '42

Union time study; Murray corp. plan enlists worker representatives in cost control system. Business Week p62-3 Ag 29 '42

War labor crisis. Business Week p14-15 Mr 7 '42

War labor policy; diagnosis of failures and future needs. W. M. Leiserson. Trusts & Estates 74:248-51 Mr '42

We'll probably pass a law. H. Corey. Pub Util 28:795-805 D 18 '41

What will labor demand after the war? E. Whitmore. Am Business 12:9-11 Je '42

What's itching labor? survey of opinion of workers in Pittsburgh area. il Fortune 26:100-2+ N '42

When management asks for union agitators. J. K. Westerfield. il Am Business 11:18-20+ N '41

See also

Arbitration, Industrial
Building trades—Labor conditions
Coal miners
Collective bargaining
Company unions
Employees
Employees, Reports to
Employees' representation in management
Employment management
Industrial management
Labor and laboring classes
Labor disputes
National labor relations board
National war labor board
Open and closed shop
Profit sharing
Safety devices and measures
Strikes
Trade agreements
Trade unions
Unemployment
Wage payment plans
Welfare work in industry

also United States—Labor, Department of—Conciliation service

Bibliography

Industrial relations in Germany, 1914-1939; annotated bibliography of materials in the Hoover library on war, revolution and peace and the Stanford university library. W. Chamberlin, comp. 403p $5 Stanford univ. press '42

Problems and policies in industrial relations in a war economy; fourth supplement, Jan. 2, 1942. 27p pa 25c Industrial relations section, Dept. of economics and social institutions, Princeton univ., Princeton, N.J. '42

Problems and policies in industrial relations in a war economy; fifth supplement, Aug. 15, 1942. 38p pa 50c Dept. of economics and social institutions, Princeton univ, Princeton, N.J. '42

Union-management cooperation with special reference to the war production drive. 27p pa 25c Industrial relations section, Dept. of economics and social institutions, Princeton univ, Princeton, N.J. '42

INDUSTRIAL research

Committee on technical development. Science 96:sup 10+ Ag 7 '42

Coordination between industries in industrial research. C. G. Worthington. Am Cer Soc Bul 20:424 N '41

INDUSTRIAL research—*Continued*
Council for scientific and industrial research of the Commonwealth of Australia. Science 96:54-5 Jl 17 '42
Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:56-8 Ja '42
Industrial chemistry and post war conditions. S. A. Brazier. Chem & Ind 60:891-4 D 20 '41
Industrial research. F. R. Bichowsky. 126p $2.50 Chemical pub. co. '42
Industrial research, a highly important national resource. Index 22 no 1:11-17 [Mr] '42
Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:77-109 Ja 25 '42
Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:1-30, 41-4 Ja 10 '42
Industrial research progress at Armour research foundation 1940-41. H. Vagtborg. il News Ed 19:1465-71 D 25 '41
Industry's interest in the professional training of chemists. W. C. Moore. J Chem Educ 18:576-80 D '41
Investigations at Mellon institute 1941-42. il Chem & Eng N 20:443-61 Ap 10 '42
New forms of glass cited as evidence of opportunities in industrial research; abstract. G. Slayter. Franklin Inst J 233:203 F '42
Organisation of scientific and industrial research in India. S. Bhatnagar. Chem & Ind 60:839-42 N 29 '41
Physics in industry. E. U. Condon. Science 96:172-4 Ag 21 '42
Plastics research. W. Gallay. il Can Chem & Process Ind 25:635-8 D '41
Product development, the ugly duckling of business. E. H. Schell. il Dun's R 50:7-12+ F '42
Production research; third annual report of executive committee of Research department of Institution of production engineers. Engineering 154:335-6 O 23 '42
Progress in industrial research at Kansas state college. (Bul. v. 26, no. 6) 8p Kansas state college, Manhattan, Kan. '42
Real science of investment; some effects of war, and scientific research developments. J. S. Crout. Trusts & Estates 74:601-2, 604 Je '42
Research analyzed on industrial basis; abstract. G. O. Curme, jr. Oil Paint & Drug Rep 141:7+ F 23 '42
Research and post-war reconstruction; abstract. Trusts & Estates 74:33-4 Ja '42
Research grants of the Wisconsin alumni research foundation. Science 96:131 Ag 7 '42
Research in industry. L. W. Wallace. Refrig Eng 44:215-16 O '42
Research, industry, and the South. M. H. Fies. Manuf Rec 111:24+ S '42
Research laboratories in industries. O. E. Buckley. Science 96:100-2 Jl 31 '42
Research laboratory to develop new foods on pilot plant scale; Borden co., New York. F. L. Seymour-Jones. il Food Ind 14:50-2 Ja '42
Research management; symposium, American chemical society. Oil Paint & Drug Rep 142:38 S 21 '42
Research needs and special library facilities. H. F. Kriege. Special Lib 33:41-4 F '42
Research or else; scientific attitude is unique and hopeful mark of our civilization. P. Cohen. il Tech R 44:79-80, 97-8+ D '41
Research pays now, and later; wartime substitutes will have peacetime uses. Sci Am 167:9 Jl '42
Researches at Mellon institute, 1941-42. W. A. Hamor. Science 95:458-61 My 1 '42
Role of research in modern industry. O. S. Schairer. Science 96:328-9 O 9 '42
Sunrise on D-day; how business men are planning to provide employment when war ends. B. H. White. Barron's 22:3-4 Je 29 '42
Union's research bonus; patents developed in the laboratories of Shell development co. Business Week p28 Jl 4 '42
Who is the research man? J. Mills. Tech R 44:451-2+ Jl '42
See also
Cement research
Ceramic research
Chemical research
Coal research
Corrosion research
Gas research
Glass research
Laboratories
Libraries and research
Market research
Metallurgical research
Packaging laboratories
Paper research
Petroleum research
Research advisory service
Rubber research
Scientific research
Steel research
Textile research

INDUSTRIAL research institute
Annual meeting, 4th, Cleveland, May 22-23. Science 95:571 Je 5 '42
Committee on economic trends. Science 95:38 Ja 9 '42
Meeting, Buffalo, Sept. 4-5. Science 96:375 O 23 '42

INDUSTRIAL statistics
Durable goods expenditures in 1941 and comparisons with 1935-39, 1939 and 1940; plant and equipment. F. C. Dirks. Fed Res Bul 28:317-18 Ap '42
Factory plant and equipment expenditures over a quarter century. L. J. Chawner. il Dun's R 50:11-15+ O '42
Industrial Marketing 1942 market data book number. Ind Marketing 26:1-394 O 25 '41
Industrial statistics; statistical technique applied to problems in industrial research and quality control. H. A. Freeman. 178p bibliog(p159-62) $2.50 Wiley '42; Review by G. P. Wadsworth. Mech Eng 64:613-14 Ag '42
Industry on war footing as it enters 1942; statistical survey: index numbers and charts. Steel 110:212-19 Ja 5 '42
See also
Employment—Statistics
Labor and laboring classes—Statistics
Market statistics
Occupations—Statistics
Production—Statistics
Wages—Statistics
also subdivision Industries and resources under names of countries, e.g. Great Britain—Industries and resources
also subdivision Statistics under names of industries, e.g. Petroleum industry and trade—Statistics

INDUSTRIAL towns. See Company towns

INDUSTRIAL tractors. See Tractors, Industrial

INDUSTRIAL traffic league, National. See National industrial traffic league

INDUSTRIAL unions. See Congress of industrial organizations

INDUSTRIAL waste. See Trade waste

INDUSTRIAL welfare. See Welfare work in industry

INDUSTRY
Changing pattern of industry. il Adv & Sell 35:34+ Ag; 34, 36, 39-40 S; 38+ O; 40, 43-4+ N; 42, 44+ D '42
Coördination of industry with engineering colleges. W. Mathesius. J Eng Educ 32:307-12 D '41
Education and industry. J. D. Cunningham. Mech Eng 64:654-6 S '42
Free enterprise must save itself; proposed National price-limiting association. J. E. Webster. Advanced Management 7:117-22+ Jl-S '42
Future of industrial man; a conservative approach. P. F. Drucker. 298p $2.50 Day '42
Heart of the problem. Fortune 25:50-1 F '42
High spots of industrial news. Published in weekly numbers of Barron's
How 22 industries line up at start of 1942; inventory situation; volume of business; prices and profit margins; 1941 results; earnings outlook. Barron's 22:10-11 Ja 12 '42
Industrial planning. W. S. Landis. Chem Ind 51:342-5 S '42
Industrial world of tomorrow. Management R 30:434-6 D '41

INDUSTRY—*Continued*

Industrialists and educators at joint conference discuss mutual problems arising from war. Comm & Fin Chr 156:1546 O 29 '42

Industry marshals resources to meet call for doubled arms program. Steel 110:21-3 Ja 12 '42

Industry planners; organization to carry out a program of long-term economic planning for private industry. Business Week p28+ O 24 '42

Industry's fascinating problem; General Electric organizes planning committee. S. M. Crocker. Ptr Ink 197:41-2, 44-5, 48 N 28 '41

National association of manufacturers, Congress of American industry, New York. il Steel 109:29-31+ D 8 '41; Elec Eng 61:53-5 Ja '42

New industrial patterns. W. Gates. il Mag of Wall St 70:115-17+ My 16 '42

New industrial set-up in 1942; changing character of production in transition to full war effort. W. Gates. Mag of Wall St Manual p3-5 Ap '42

Outlook for private enterprise in America. S. H. Slichter. Advanced Management 7: 67-76 Ap-Je '42

People of the U.S. appreciate Exchange as part of economic system. E. Schram. Comm & Fin Chr 156:969+ S 17 '42

Perspective on democratic industrial government. O. Tead. Ann Am Acad 224:46-53 N '42

Problem of industry for today and tomorrow. C. Sawyer. Chem Ind 49:787-9 D '41

War atlas of industry; comparing industrial volume-profit trends under impact of war. J. C. Clifford. Mag of Wall St 69:426-7, 486, 544 Ja 24-F 21 '42

War experience changes post-war outlook of many corporations. H. Lawrence. Barron's 22:4 S 21 '42

Whither industry in democracy's arsenal. D. M. Nelson. Mech Eng 64:7-9 Ja '42

Year-end statements. H. S. Wherrett and others. Chem Ind 50:85-7 Ja '42

See also

Airplane industry and trade
Automobile industry and trade
Business
Ceramic industries
Chemical industries
Clay industries
Commerce
Corporations
Dairying
Dye industry
Economic conditions
Economic planning
Efficiency, Industrial
Electric industries
Employees' representation in management
Equipment industries
Factories
Factory system
Gas industry
Gasoline industry
Glass manufacture
Glass trade
Government regulation of industry
Handicraft
Industrial market
Industrial mobilization
Industrial relations
Industrial research
Industry and state
Iron industry and trade
Labor and laboring classes
Leather industry and trade
Lumbering
Machinery in industry
Manufactures
Mineral industries
Mining industry and finance
Moving picture industry
Moving pictures in industry
Oil industries
Organization in industry
Paint industry and trade
Paper industry and trade
Petroleum industry and trade
Pottery industry
Production
Rubber industry and trade
Soap industry and trade
Standardization
Steel industry and trade
Stocks
Textile industry
Trade associations
Unemployment
Woman—Employment

also National association of manufacturers

Decentralization

New plan for decentralization of manufacturing operations; Sperry gyroscope company. Dun's R 50:24+ Je '42

Will the war bring back the hick store? R. B. Simpson. il Adv & Sell 35:36 Je '42

Reports to government

See Business—Reports to government

INDUSTRY and state

Alternative to socialization; future relations of government and industry. S. Courtauld. Trusts & Estates 75:119-21 Ag '42

Economic responsibility. Economist 143:99-100 Jl 25 '42

End monopoly exploitation; a policy for industry. H. Quigley. 63p pa 50c Universal distributors, New York '41

Government and industry; their future relations. S. Courtauld. 32p pa 6d Macmillan '42

Managerial revolution; what is happening in the world. J. Burnham. 285p $2.50 Day '41; Review (Shifting control of industry) by D. L. Palmer. Mech Eng 63:904-5 D '41

See also

Commercial policy
Economic planning
Economic policy
Government loans to industry
Government regulation of industry
Industrial mobilization
Labor laws and legislation
Public utilities
Public utilities—Regulation
Public utilities commissions
Railroads and state
Tariff

China

State control in Free China. Economist 141: 686-7 D 6 '41

Great Britain

Debate continues. Economist 143:263-4 Ag 29 '42

Production; from the seventh and eighth reports of the Select committee on national expenditure. Engineer 173:330-1 Ap 17 '42

Two post-war views; Ernest Bevin's and Samuel Courtauld's. Economist 142:534-5 Ap 18 '42

United States

Government in business. M. P. Keohane. 37p bibliog(p36-7) pa 60c Ginn '42

Government, industry and labor must cooperate if Nation is to endure. W. D. Fuller. Comm & Fin Chr 154:1469+ D 11 '41

Lawyers and the Constitution; how laissez faire came to the Supreme court. B. R. Twiss. 271p bibliog(p266) $3 Princeton univ. press '42

Planning will win the peace. D. Hitchcock. Mech Eng 64:97-9 F '42

Private enterprise and the federal government. C. B. Robbins. Spectator (Life ed) 148:6-8 F 12 '42

Readings in the social control of industry. 494p bibliog(p477-90) $2.75 Blakiston '42

Strategy of hate; attack on labor and industry. B. M. Selekman. Harvard Business R 20 no 4:393-401 [Jl] '42

Teamwork, government and business. D. G. Clark. Paint Oil & Chem R 103:26-9 N 20 '41

See also

Business—Reports to government

INERTIA, Moments of. See Moments of inertia

INFANT mortality

Statistics

Infant mortality in rural and urban areas. H. J. Sommers. maps Pub Health Rep 57: 1494-1501 O 2 '42

Study in maternal, infant and neo-natal mortality in Canada. 48p Canada. Dominion bur. of statistics, Ottawa '42

INFANTILE paralysis

Crystallization of a protein from poliomyelitis infected mouse brain. E. Racker. Science 96:364-5 O 16 '42

Epidemiological study of poliomyelitis in Mississippi in 1941. L. L. Lumsden. bibliog map Pub Health Rep 57:729-53 My 15 '42

Experimental air-borne infection with poliomyelitis virus. H. K. Faber and R. J. Silverberg. bibliog Science 94:566-8 D 12 '41

INFANTILE paralysis—*Continued*

Flies as carriers of poliomyelitis virus in urban epidemics. A. B. Sabin and R. Ward. Science 94:590-1 D 19 '41; Abstract. Sci Am 166:184 Ap '42

Infantile paralysis; a symposium delivered at Vanderbilt university, April 1941. 239p bibliog(p193-228) $1.25 National foundation for infantile paralysis, New York '41

Insects as carriers of poliomyelitis virus. C. T. Brues. Science 95:169-70 F 13 '42; Discussion. A. B. Sabin and R. Ward. 95:300-1 Mr 20 '42

National foundation for infantile paralysis; grants. Science 95:116 Ja 30 '42

National foundation for infantile paralysis; summary of third annual report. Science 95:65 Ja 16 '42

Neural mechanisms in poliomyelitis. H. A. Howe and D. Bodian. 234p bibliog(p212-24) $3.50 Commonwealth fund, New York '42

Observations on an epidemic of poliomyelitis. A. E. Casey. Science 95:359-60 Ap 3 '42

Occurrence and recovery of the virus of infantile paralysis from water; abstract. J. R. Paul. Water Works & Sewerage 88:509-10 N '41

Plan aimed at making the new Sister Kenny treatment for infantile paralysis more generally available. Science 95:sup12 My 1 '42

Prevalence of poliomyelitis in the United States in 1941. C. C. Dauer. bibliog map Pub Health Rep 57:710-16 My 8 '42

Recoordination of muscles in infantile paralysis; abstract. D. B. Phemister. Science 94:sup12+ D 26 '41

Treatment of infantile paralysis in the acute stage. E. Kenny. 285p $3.50 Bruce pub. '41

Work on infantile paralysis at the Johns Hopkins university. Science 96:55 Jl 17 '42

INFANTILE paralysis, National foundation for. See National foundation for infantile paralysis

INFANTRY drill and tactics

Infantry drill and elementary training; U.S. army. P. S. Bond. 5th ed 190p pa 75c P. S. Bond pub. co, 2205 California st, NW, Washington, D.C. '42

INFANTS

Care and hygiene

Infant care. il diags U S Children's Bur Pub 8:1-135; pa 10c Supt. of doc. '42

INFANTS' foods

Powdered vegetables for babies. Science 96: sup10 Ag 28 '42

INFECTION

Nutritional deficiency and infection; influence of riboflavin or thiamin deficiency on fatal experimental pneumococcal infection in white mice. J. G. Wooley and W. H. Sebrell. bibliog Pub Health Rep 57:149-61 Ja 30 '42

Sulfanilamide can overcome germ infections in wounds; abstract. R. G. Klepser and J. R. Veal. Science 95:sup10 Ja 2 '42

Use of mucin experimental infections of mice with vibrio cholerae. J. J. Griffitts. Pub Health Rep 57:707-10 My 8 '42

Virus infection of the mammalian fetus. E. W. Goodpasture. Science 95:391-6 Ap 17 '42

See also

Disinfection and disinfectants

Rodents as carriers of infection

INFECTION, Carriers of. See Carriers of infection

INFECTION, Focal

New approach to old diseases. O. Meyer. 145p $2 Savoy pub. co, New York '42

INFECTIOUS diseases

Ambassadors in white; the story of American tropical medicine. C. M. Wilson. 372p bibliog(p337-53) $3.50 Holt '42

Communicable disease control, a volume for the health officer and public health nurse. G. W. Anderson and M. G. Arnstein. 434p $4.25 Macmillan '41

Distribution of health services in the structure of state government; communicable diseases control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 56: 2233-58 N 21 '41

Handbook of communicable diseases. F. H. Top and others. 682p $7.50 C. V. Mosby co, St Louis '41

Manual and outline of procedure for health officers for the control of communicable diseases, Oct. 1, 1941. 128p Dept. of public health, Springfield, Ill. '41

Microbiology and man. J. Birkeland. 478p bibliog(p463-6) $4 Crofts '42

Nursing care of communicable diseases; prophylactic technics for the prevention and control of disease. M. E. Pillsbury. 6th ed rev 604p bibliog(p543, 560-74) $3 Lippincott '42

Respiratory diseases; air-borne theory of contagious disease. Science 95:sup 14 Mr 20 '42

See also

Bacteria, Pathogenic
Carriers of infection
Cold (disease)
Dysentery
Epidemics
Immunity
Infantile paralysis
Influenza
Insects as carriers of infection
Malaria
Meningitis
Plague
Relapsing fever
Rheumatic fever
Rubella
Scarlet fever
Tuberculosis
Tularemia
Typhoid fever
Typhus fever
Viruses
War and disease
Weil's disease

Statistics

Notifiable diseases in the United States, 1940; morbidity and mortality summaries for certain important communicable diseases. Pub Health Rep 57:233-9 F 13 '42

Prevalence of communicable diseases in the United States based on weekly telegraphic reports from state health departments, Nov. 30-Dec. 27, 1941. Pub Health Rep 57: 94-7 Ja 16 '42 [cont monthly]

Prevalence of disease; current weekly state and city reports. Published in weekly numbers of Public health reports

Prevalence of poliomyelitis in the United States in 1941. C. C. Dauer. bibliog map Pub Health Rep 57:710-16 My 8 '42

World distribution of cholera, plague, smallpox, typhus fever, and yellow fever. Pub Health Rep 57:183-6 Ja 30 '42 [cont monthly]

See also

Typhoid fever—Statistics

INFERENCE, Statistical. See Statistical methods

INFIRMARIES. See Hospitals

INFLAMMABLE liquids

Characteristics of liquefied petroleum gas that affect its fire hazard. M. B. Anfenger and O. W. Johnson. Am Pet Inst Proc 22(1):50-3 '41

Fire protection for organic finishing; guarding spray booths and other special hazards. P. W. Eberhardt. il diags Metal Finishing 40:566, 568-9 O '42

Flaming fluids. G. M. Kintz. il Nat Safety N 45:22-3, 68-75 F '42

Guarding against the flammable liquid fire hazard. C. L. Griffin. il Ind & Eng Chem 34:664-9 Je '42

Inflammable solvents and solvent vapours. J. Creevey. Chem Age (Lond) 46:203 Ap 18 '42

Limits of inflammability and ignition temperature of ethyl mercaptan in air. G. W. Jones, R. E. Kennedy and W. E. Miller. diag U S Bur Mines Rep of Invest 3648:1-6 '42

Practical methods for storing volatile liquids. D. E. Larson. il Am Inst Chem Eng Trans 38:1-22 F '42; Same cond. Nat Pet N 34: R105-7, R110-12 Ap 1 '42; Discussion. Am Inst Chem Eng Trans 38:22-3 F '42

Standards for special oil fire extinguishing systems revised at NFPA meeting. Nat Pet N 34:R168 My 27 '42

INFLAMMABLE liquids—*Continued*

Standards of the National board of fire underwriters for the installation of containers for storing and handling flammable liquids. 57p Nat. board of fire underwriters, New York '41

See also

Gasoline

Petroleum

INFLAMMABLE materials

Control today's fires. T. A. Fleming. il Safety Eng 83:35-6 Mr '42

Fire-hazard properties of certain flammable liquids, gases and solids; table. Metal Finishing 39:700 D '41

Properties of flammable materials; table. Chem & Met Eng 49:100 Ag '42

Store chemicals carefully; spilled phosphorus sets fire to firemen's rubber boots and to factory. Safety Eng 83:39 Ap '42

Trucks and tractors for hazardous locations. il Nat Safety N 45:58+ My '42

Testing

Test for flammability of plastics. diag Mod Plastics 19:74 Jl '42

INFLAMMABLE mixtures

Annual report of the Explosives division, fiscal year 1941. W. J. Huff. bibliog pls U S Bur Mines Rep of Invest 3602:1-36 '42

Bombing and refrigeration; possible hazards. C. P. McCord. Refrig Eng 44:151-3 S '42

How to obtain safer operation of large motors in hazardous atmospheres; inert-gas-filled motors. B. M. Mills. il diag Gen Elec R 44:601-4 N '41

Inflammability of ether-oxygen-helium mixtures; their application in anesthesia. G. W. Jones, R. E. Kennedy and G. J. Thomas. U S Bur Mines Rep of Invest 3589:1-15, pl 1 '41

Investigations during 1938, 1939, and 1940 of combustibles in manholes in Boston. G. W. Jones and others. U S Bur Mines Rep of Invest 3604:1-33 '42

Limits of inflammability and ignition temperature of styrene in air. G. W. Jones. G. S. Scott and W. E. Miller. pls U S Bur Mines Rep of Invest 3630:1-5 '42; Abstract. Oil & Gas J 41:46 Jl 2 '42

Limits of inflammability and ignition temperatures of nicotine in air. G. W. Jones, G. S. Scott and W. E. Miller. diags U S Bur Mines Rep of Invest 3640:1-5 '42

Limits of inflammability of acrylonitrile in air. G. W. Jones, R. E. Kennedy and G. S. Scott. diags U S Bur Mines Rep of Invest 3597:1-6 '42

Motorizing equipment in hazardous locations. C. W. Falls. il Chem & Met Eng 49:82-4 Ag '42

Prevention of fires, explosions, and accidents from inflammable fluids. G. M. Kintz. Pet Eng 13:77+ Je; 75-6+ Jl '42

Purging controlled atmosphere furnaces. F. B. Leslie. il Metals & Alloys 16:241-5 Ag '42

See also

Explosions

Explosives

INFLATION (finance)

A B C of inflation; with particular reference to present-day conditions in the United States. E. W. Kemmerer. 174p bibliog(p161-4) $1.75 McGraw-Hill '42

Action needed to curb inflation. J. M. Clark. Comm & Fin Chr 155:429 Ja 29 '42

Agriculture department, OPA act against inflation. Comm & Fin Chr 155:676 F 12 '42

AFL head maps plan to control inflation. W. Green. Comm & Fin Chr 156:373 Jl 30 '42

Answer policyholders query as to danger of inflation. T. I. Parkinson. Nat Underw (Life ed) 46:6 Jl 31 '42

Anti-inflation angles; comments on President's message to Congress. Barron's 22:6 My 4 '42

Anti-inflation bill signed by President. Oil Paint & Drug Rep 142:5+ O 12 '42

Anti-inflation bills fail purpose and create vicious circle. W. P. Witherow. Comm & Fin Chr 156:1089+ S 24 '42

Asks three-point program for life insurance companies. H. J. Johnson. East Underw 43:11 My 8 '42

At least $22 billion needed in new taxes to prevent inflation, Research bureau declares. Comm & Fin Chr 156:987 S 17 '42

Bankers must help preserve purchasing power. O. W. Adams. Bankers M 145:41-3 Jl '42

Bond prices in Europe's inflation. B. Ravits. Barron's 22:18 O 5 '42

Business and the new war economy; President's anti-inflation program wins general approval. Business Week p15-16 My 2 '42

Business behavior, 1919-1922; an account of post-war inflation and depression. W. F. Payne. bibliog J Business 15:supl-215 Jl-O '42

Calls for price-fixing, rationing aggressive fiscal policy to fight inflation. M. S. Szymczak. Comm & Fin Chr 155:348-9 Ja 22 '42

Canada combats inflation through new tax rates. For Comm W 9:10-11, 43 O 10 '42

Closing the inflation gap. Bankers M 144:263-4 Mr '42

Common stock and inflation; considerations in the use of equities in wartime. E. L. Maas. Trusts & Estates 74:183-4, 186+ F '42

Condemns Treasury's income tax proposals. M. A. Linton. Nat Underw (Life ed) 46:1+ My 1 '42

Congress debates wage-price stabilization bills; President opposes higher parity formula. Comm & Fin Chr 156:1093 S 24 '42

Consumer spending, inflation and the wage earner in the United States. O. Nathan and M. Fried. bibliog Int Labour R 45: 125-41 F '42

Control of prices and inflation. L. Henderson. Trusts & Estates 74:364-5 Ap '42

Cost of living controls; a brief panel discussion. W. Atkins; P. Cadman and others. Banking 35:18-22, 169 S '42

Criticizes competitive bidding up of wages & salaries as forcing inflation. M. S. Eccles. Comm & Fin Chr 155:2121+ Je 4 '42

Danger of inflation continues; prices, taxes and inflation. R. E. Paul. Comm & Fin Chr 156:1355 O 15 '42

Dangers in upward price movement. P. H. Johnston. Comm & Fin Chr 155:323 Ja 22 '42

Debt repayment urged as anti-inflation step. Burroughs Clearing House 26:43-4 Ag '42

Defending the American dollar; life insurance a vital medium for checking inflation. M. A. Linton. Weekly Underw 146:1240-3, 1298, 1300-1, 1358, 1360-2 My 30-Je 13 '42

Dispute increased inflationary powers would result from Reserve bank purchasing governments. Comm & Fin Chr 155:770 F 19 '42

Dynamics of inflation. T. Koopmans. R Econ Statis 24:53-65 My '42; Discussion. 24:189-90 N '42

Effect of inflation on liability insurance abroad. K. M. Jachmann. East Underw 42: 43 N 7 '41

Effects of inflation upon fraternals. J. D. Reeder. Nat Underw (Life ed) 46:41 O 2 '42

11th hour of inflation. P. F. Cadman. Banking 35:20-1+ O '42

Farm price and wage inflation. Trusts & Estates 75:216-17 S '42

Fear of inflation excuse for not buying life insurance analyzed. S. M. Foster. Weekly Underw 147:688+ S 19 '42

FHA as a factor in combatting inflation. P. M. Stoner. Bankers M 114:192-6 Mr '42

Fight against inflation in total war. A. Basch. Trusts & Estates 74:562 Je '42

Fiscal policy. Survey of Cur Business 22:4-8+ My '42

Fixed value loans in Germany; an experiment during the runaway inflation. K. Koranyi. Comm & Fin Chr 155:2034-5 My 28 '42

Folklore of inflation. R. L. Weissman. 26p bibliog(p25-6) pa 25c Am. council on public affairs, Washington, D.C. '41

INFLATION (finance)—*Continued*

FDR warns inflation in advancing prices; text of address on anniversary of the Administration's farm program. Comm & Fin Chr 155:1155 Mr 19 '42

Further anti-inflationary measures needed to immobilize purchasing power. R. Blough. Comm & Fin Chr 156:1553 O 29 '42

Gauging the impact of the inevitable inflation. W. Gates. Mag of Wall St 70:424-6+ Ag 8 '42

German experience with stocks and inflation. L. A. Hahn and J. Soudek. Bankers M 145: 13-14, 16-21 Jl '42

Grappling with the inflation problem. A. W. Crawford. Burroughs Clearing House 26: 19-21 My '42

Henderson forsees inflation vanquished. Comm & Fin Chr 156:466 Ag 6 '42

Hidden inflation; manufacturers seek salvation in long-margin lines or in lower quality. Business Week p17-18 Je 27 '42

How Britain fights inflation. Business Week p34+ Ap 25 '42

How inflation curbs shape up; Roosevelt passes Byrnes power of control. Business Week p15-16 O 10 '42

How purchase of U.S. defense bonds fights inflation. M. Nadler. Credit & Fin Management 44:28-9 F '42

How to deflate war inflation; why the Treasury tax program can't do it. L. Stern. Mag of Wall St 69:686-8+ Ap 4 '42

I saw inflation in the Ruhr. W. Williams. il Factory Management 100:90-1+ O '42

Impact of inflation on banking. C. D. Harris. Comm & Fin Chr 156:1082 S 24 '42; Same abr. Banking 35:39 S '42

Inflation. Comm & Fin Chr 156:359 Jl 30 '42

Inflation and politics; abstract. Bankers M 145:263-4 S '42

Inflation and price control discussed by N.Y. Reserve bank in annual report. Comm & Fin Chr 155:1149 Mr 19 '42

Inflation and related problems. C. H. Haines. Bankers M 144:105-11 F '42

Inflation and rents. S. O. Dunn. Am Bld 64:9 Ag '42

Inflation and the defense bond program; long-term old age defense and savings bonds. E. E. Muntz. Bankers M 144:320-3 Ap '42

Inflation battlefront. Trusts & Estates 75: 333-4 O '42

Inflation control and the general ceiling plan. J. Backman. Trusts & Estates 74:455-61 My '42

Inflation control in new phase. Barron's 22: 6 O 12 '42

Inflation gap abstract. L. Velie. Bankers M 144:413 My '42

Inflation in France? Economist 143:237-8 Ag 22 '42

Inflation in Reich. Business Week p85-6 N 15 '41

Inflation in U.S. sure either during war or in post war period. R. Babson. Comm & Fin Chr 156:91 Jl 9 '42

Inflation menace, why not face it now? Bankers M 145:187-8+ S '42

Inflation must be curbed on all fronts. C. A. Sienkiewicz. Comm & Fin Chr 156:25 Jl 2 '42

Inflation spirals. Arch Forum 76:sup38+ My '42

Inflation still a threat. Survey of Cur Business 22:4-5 Jl '42

Inflation takes a new turn. H. M. Tremaine. Mag of Wall St 69:473-5+ F 7 '42

Inflationary rampage seen not inevitable. H. Bruere. Comm & Fin Chr 154:1340 D 4 '41

Inflationary stage setting. A. B. May. Banking 35:62 O '42

Inflation's impact on banking. C. D. Harris. Banking 35:39 S '42; Excerpts. Bankers M 145:349-50 O '42

Instalment selling in reverse; paying now for after-war delivery; plan of Marketing research group of War work committee of Advertising club of New York. C. C. Green. il Ptr Ink 199:13-14+ My 22 '42

Investing in a world at war; inflation held to be the backdrop of our economic life. A. A. Mol. Barron's 22:8+ Ag 17 '42

Is inflation stopped? what the new controls can and can not do. W. Gates. Mag of Wall St 71:12-13+ O 17 '42

Issue before Congress in fight on anti-inflation bill is authority of Congress itself. E. Blair. Barron's 22:4 S 28 '42

Just a little inflation. W. F. Shelley. Comm & Fin Chr 156:266 Jl 23 '42

Letter to beneficiaries of the George Putnam fund of Boston from the trustees. Comm & Fin Chr 154:1111+ N 20 '41

Life insurance protecting nation's economy makes supreme war effort possible. L. H. Pink. Weekly Underw 146:27 sec 2 My 9 '42

Life insurance seen as valiant foe of inflation. A. E. Patterson. Comm & Fin Chr 156:979 S 17 '42

Measures to check inflation. Bankers M 144: 375-6 My '42

Menace of inflation; stake of the utilities in price control and other methods of preventing runaway costs. E. R. Abrams. Pub Util 29:79-84 Ja 15 '42

Moves against inflation; President's message to Congress and sweeping price control order issued by OPA. Nat City Bank p49-53 My '42

Mutual agents in New York war clinic consider inflation; address. L. H. Pink. Weekly Underw 147:912+ O 17 '42

Need of stronger control measures; three inflationary periods; inflation disrupts economic relations. Nat City Bank p 110-12 O '42

New anti-inflation measures. Nat City Bank p122 N '42

New deal forced by necessity to make politically hot proposals in anti-inflation program. E. Blair. Barron's 22:4 Ap 27 '42

New dealers think anti-inflation program insufficient, and expect further moves. E. Blair. Barron's 22:4 My 4 '42

New note in inflation fight; slowdown in buying. Business Week p13-14 Je 13 '42

NYSE analysis of income, outgo and balance remaining reveals natural brake on inflation. Comm & Fin Chr 156:812 S 3 '42

Newspapers get big price control job; helping retailers to comply with ceiling price regulation and making anti-inflation copy. il Ptr Ink 200:20-1 S 25 '42

OPA's job. L. Henderson. Manuf Rec 111:27+ Je '42

Outlook for bank earnings good; touches on inflation. R. Babson. Comm & Fin Chr 156: 1161+ O 1 '42

Pay now for goods to be delivered after the war; plan studied by OPA. Steel 111:32-3 Jl 27 '42

People can take it. A. W. Atwood. Banking 34:22-3+ Je '42

Plan for instalment purchase of peace priorities; goods for post-war delivery. Trusts & Estates 74:547-9 Je '42

Plan to create purchasing power for the post-war market. E. M. Cope. Automotive & Aviation Ind 87:19+ S 1 '42

President asks House group for early anti-inflation taxes; action deferred. Comm & Fin Chr 154:1136 N 20 '41

President demands stabilization of wages and profits, with new ceiling on farm products; message to Congress; text. Comm & Fin Chr 156:889, 896-7 S 10 '42

President faced with issue of price control or politics. E. Blair. Barron's 22:4 Ap 20 '42

President on inflation; message to Congress, Sept. 7. Bankers M 145:281-2 O '42

President outlines anti-inflation program to Congress; heavier taxation, price, wage ceilings. Comm & Fin Chr 155:1708-9 Ap 30 '42

President warns of grave economic crisis. Comm & Fin Chr 156:991 S 17 '42

President's anti-inflation program not being put into force on important sectors. E. Blair. Barron's 22:4-5 My 11 '42

Preview of inflation. Business Week p76 N 29 '41

Price ceiling and taxation. P. Haensel. Trusts & Estates 74:560-1 Je '42

Rationing consumer expenditure. S. Weintraub. Harvard Business R 21 no 1:109-14 [S] '42

INFLATION (finance)—*Continued*

Regulation of consumer credit. Fed Res Bul 28:399-409 My '42

Revising your will with an eye to inflation. K. Grinstead. Barron's 22:7 Ja 26 '42

Rules on anti-inflation and economic stabilization; complete text. Nat Pet N 34:33-5 O 21 '42

Sees nation forced closer to inflation; Chamber of commerce of the state of New York. Comm & Fin Chr 156:377 Jl 30 '42

Some inflation angles; charts giving federal expenditures and receipts, total U.S. income payments, retail trade, etc, 1938-1943. Banking 34:11 Je '42

Statement of considerations involved in the issuance of the general maximum price regulation. Fed Res Bul 28:441-9 My '42

Taft & Byrd propose plan to curb inflation. Comm & Fin Chr 156:463 Ag 6 '42

Talking tough on inflation. Business Week p15-16 S 12 '42

Taxes best defense against inflation. H. H. Heimann. Bankers M 144:272 Mr '42

Tells mortgage bankers inflation peril grows. F. P. Champ. Comm & Fin Chr 156:1270 O 8 '42

Text of executive order providing for stabilizing wages, salaries, farm prices, etc. F. D. Roosevelt. Comm & Fin Chr 156:1265+ O 8 '42

Urges keeping living costs down, and discouraging credit instalment buying. M. S. Eccles. Comm & Fin Chr 156:20 Jl 2 '42

Urges repeal of inflationary monetary laws. F. E. Hasler. Comm & Fin Chr 155:441+ Ja 29 '42

Utility rate regulation under the new anti-inflation legislation. Pub Util 30:568-72 O 22 '42

Wages and prices. R. E. Summers, comp. Ref Shelf v 15, no 6:1-219 bibliog(p207-19) '42 ($1.25)

War economy; monetary management. A. P. Woolfson. Bankers M 143:471-4 D '41

War expansion and price inflation. S. H. Nerlove. bibliog J Business 15:95-130 Ap '42

Warns of grave dangers of inflation. J. Jones. Comm & Fin Chr 156:286 Jl 23 '42

Warns on inflation effects. R. R. Lounsbury. East Underw 42:4 D 5 '41

Wartime costs control plan devised. Oil Paint & Drug Rep 141:3+ My 4 '42

War time monetary and credit control; abstract. Trusts & Estates 74:34-5 Ja '42

What is going to happen to prices? M. Palyi. Am Business 11:14-16 D '41

What it takes to block inflation; excess spending power; how much would have to be done by fiscal means to remove it. A. G. Hart. R Econ Statis 24:101-13 Ag '42

What the public utilities will find in inflation; how they can protect themselves from certain post-war conditions. K. Kauffmann-Grinstead. Pub Util 29:267-75 F 26 '42

What to do about inflation. Pub Util 29:238-43 F 12 '42

What will inflation and devaluation mean to you? D. G. Ferguson and others. 2d ed 144p pa $1 Am. inst. for economic research, Cambridge, Mass. '41

When the threat of inflation will be worst; accumulation of unspent funds and unsatisfied demand for goods will be greatest after the war. T. S. Holden. Barron's 22:3-4 Ag 24 '42

Where tax policy is needed. H. S. Bloch. Trusts & Estates 74:357-9 Ap '42

Who's going to stop inflation? Business Week p5 Jl 11 '42

Why of over-all price control; background of present inflationary trend similar to that of last war. C. Vogel. Barron's 22:3 Ap 20 '42

Why repayment of debts is anti-inflationary. Fed Res Bul 28:538 Je '42

Will consumer credit liquidation curb inflation? Bankers M 145:167-8 Ag '42

Will inflation be controlled? Bankers M 144:264-5 Mr '42

Winning the economic war; the life underwriter can help. M. Nadler. Ins Field (Life ed) 71:16 Ap 24 '42; Same abr. Spectator (Life ed) 148:6+ Ap 23 '42; Abstract. Nat Underw (Life ed) 46:4 Ap 24 '42

Your best hedges against inflation. J. S. Williams. il Mag of Wall St 70:534-5+ S 5 '42

Your dollars, good or bad? tomorrow's bill for today's war. L. Stern. Mag of Wall St 69:239-41+ D 13 '41

See also

Business
Gold as money
Hedging
Money

Bibliography

Inflation: a selected list of recent references. G. H. Fuller, comp. 46p U.S. Lib. of Congress, Division of bibliography, Washington '42

INFLUENZA

Concentration, isolation and determination of the size of the virus of influenza A; abstract. L. A. Chambers and W. Henle. Science 94:551 D 12 '41

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

Disease in wartime. Science 95:531 My 22 '42

Effect of mucin on influenza virus infection in hamsters. A. H. Wheeler and W. J. Nungester. bibliog Science 96:92-3 Jl 24 '42

Histopathology of type B (Lee strain) influenza in mice. J. W. Oliphant and T. L. Perrin. bibliog Pub Health Rep 57:809-14, pl 1 My 29 '42

Hope of controlling influenza epidemics; abstract. J. Stokes, jr. and W. Henle. Science 96:sup11 S 18 '42

Immune serum in the treatment of influenza. J. Stafford. Science 96:sup10 O 9 '42

Immunization with inactive virus of influenza B: comparison of antibody response with that produced by infection. M. D. Eaton, W. P. Martin and others. bibliog Pub Health Rep 57:445-51 Mr 27 '42

New vaccine against influenza. Science 94:sup10+ N 28 '41

Prevention of influenza epidemics by spraying propylene glycol. Science 94:sup10 D 26 '41

Protection of mice against infection with airborne influenza virus by means of propylene glycol vapor. O. H. Robertson and others. bibliog Science 94:612-13 D 26 '41

INFORMATION service

See also

Business information
Investment advisers
Libraries, Special

INFORMATION service, Government

Information men in Washington. T. L. Richman. Personnel J 20:214-21 D '41

Information service to expand facilities. Comm & Fin Chr 155:659 F 12 '42

Protection of statistical information from enemy use. S. A. Rice. Special Lib 33:243-9 S '42

INFORMATION tests

Modern events quiz book. N. MacNeil, ed. 224p $1 Blue ribbon books '42

INFORMERS (law)

Informer loses; judgment won from Pittsburgh contractors is set aside by court. Business Week p32 Ap 4 '42

Snitch law. Arch Forum 76:sup40+ My '42

INFRARED photography. See Photography, Infrared

INFRARED rays

Application of infrared radiation to spot-testing. W. W. Razim. Ind & Eng Chem Anal ed 14:278 Mr 15 '42

Detecting aircraft at night; combining both noctovision and television. H. Rosen. il Radio N 27:6-7+ F '42

Infrared as an analytical tool: dehydration of silicic acid derived from feldspars. E. W. Koenig. bibliog Am Cer Soc Bul 20:447-50 D '41

INFRARED rays—*Continued*

Infrared radiant heating. F. M. Tiller and H. J. Garber. bibliog il Ind & Eng Chem 34:773-81 Jl '42

Infrared radiation. N. C. Beese. Science 95: 614-17 Je 19 '42

Infrared reflectance of camouflage enamels. Oil Paint & Drug Rep 142:47A-47B O 26 '42

Preparation of silver chloride films. P. Fugassi and D. S. McKinney. il R Sci Instr 13:335-7 Ag '42

See also

Spectrum, Infrared

Industrial applications

Alternate materials for industrial reflectors. E. H. Robinson. Elec W 118:1446-7 O 31 '42

Armature baker. il Steel 111:86 Ag 10 '42

Armature repairs speeded with infra-red lamps. H. C. McDaniel. il Coal Age 47:66+ Mr '42

Carbonizing woolen cloth with infra-red lamps. diag Rayon 23:177 Mr '42; Same cond. Textile World 92:90 Mr '42

Control of radiant energy in paint drying ovens. R. Wysocki. Metal Finishing 39:704-5 D '41

Develop infra-red seed conditioner. J. E. Nicholas. il Elec W 117:1224 Ap 4 '42

Finish drying by infra-red method. P. H. Gallagher. Am Gas Assn Mo 24:369 O '42

Flexible infra-red for fixture drying. il Elec W 117:1679-80 My 16 '42

Gas-generated infra red rays in textile drying. Rayon 22:719-20 D '41

General Electric lamps for radiant heating. il Engineering 153:147 F 20 '42

Green sand molds dried by infra red lamps. L. M. Duryee. il Foundry 70:134+ Ap '42

Heating by short wave. il Mod Plastics 20:79 O '42

Industrial uses of radiant heating. R. Quarendon. il Engineer 173:531-3 Je 26 '42

Infra-red baking. H. Seymour. Electrician 129:200-4 Ag 21 '42

Infra-red banks dry motor in day. il Elec W 116:1910 D 13 '41

Infra-red developments speed war production. P. H. Goodell. il diag Elec W 118:80-2 Jl 11 '42

Infra-red dries pottery glaze. il Elec W 117: 120 Ja 10 '42

Infra-red drying cuts process costs; Sessions clock company. il Elec W 117:532 F 7 '42

Infra-red drying lamp speeds Van Dyke prints. Product Eng 13:475 Ag '42

Infra-red heating. E. E. Ackland. il Electrician 129:108-9 Jl 31 '42

Infra-red lamps loosen gears. il Elec W 117: 698 F 21 '42

Infra-red radiation. A. E. Tooke and H. W. C. Gatehouse. il diag Elec R (Lond) 130: 137-41, 169-72 Ja 30-F 6 '42

Infra-red radiation and equipment. R. Maxted. Electrician 127:351-2 D 19 '41

Infrared radiation and equipment; their application to industrial processes. R. Maxted. Light & Lighting 34:172-3 D '41

Infra-red radiation for industrial heating. E. E. Halls. Can Chem & Process Ind 25:650 D '41

Infra-red rays and their application to problems of the textile colorist. J. Grant. bibliog diag Textile Col 64:213-15 My '42

Infra-red speeds clock output. il Elec W 116: 1918 D 13 '41

Infra-red speeds drying; auto shop. il Elec West 87:50 D '41

Infra-red tunnel breaks bottleneck; Square D company. il Elec W 118:644 Ag 22 '42

Infra-red tunnel mounted on ceiling; paint baking; John G. Virden company. W. J. Miskella. il Elec W 116:2073 D 27 '41

Large motors baked by near infra-red. il Elec W 116:2063 D 27 '41

Military applications for organic finishes; infrared drying. T. P. Cusack, jr. il diags Metal Finishing 40:499-501, 503-4 S '42

Modern infra-red baking system. C. F. Miller. il plan Metal Finishing 40:561-2 O '42

Near infra-red and metal finishing. P. H. Krupp. il Metal Finishing 40:389-93 Jl '42

Near infra-red baking and drying. il Ry Age 112:1111 Je 6 '42

New infra-red rays for drying textiles. Rayon 22:688 N '41

Oscillate infra-red to dry coils. il Elec W 117: 1690 My 16 '42

Paint baking with infrared plus ultraviolet. H. J. Bennett and H. Haynes. Illum Eng 37:115-17 F '42

Photoelectrics for industrial safety; equipment using infra-red rays suited for protection of defense plants. R. E. Appel. il diags Radio N 27:36-7+ My '42

Progress in gas utilization research during 1941; investigation of infra-red ray drying and baking with gas. il Am Gas Assn Proc 1941:425-6

Radiant heat and its application. J. D. Hall. diags Paper Tr J 114:35-9 Mr 5 '42

Radiant heat dries helmet liners. il Am Mach 86:970 S 3 '42

Radiant heating; abstract. P. H. Goodell. Iron Age 149:62, 64 Je 25 '42

Steel barrels given resistant lining; infrared baking tunnels dry sanitary liners. il Elec W 116:1746+ N 29 '41

Use of infra red-ray gas burners in the textile industry. J. A. Fulton. il Rayon 23:344 Je '42

See also

Photography,
Infrared

Measurement

Attenuated superconductors; for measuring infra-red radiation. D. H. Andrews and others. bibliog il diags R Sci Instr 13:281-92 Jl '42

INFRARED spectrum. See Spectrum, Infrared

INGALLS shipbuilding corporation

South's all-welded ships; sub-contracts extensive. R. H. Macy. il Manuf Rec 110: 22-3+ D '41

INGOTS

See also

Steel ingots

INGRAM, Louis, 1870-1941

Sketch. por Am Cer Soc J (Bul) 21:32-3 F 15 '42

INHERITANCE and succession

Cases and materials on trusts and succession. L. M. Simes. 760p $6 Callaghan '42

Status of surviving spouse and right of election. W. C. Wiseman. Trusts & Estates 75: 289-96 S '42

See also

Executors and administrators
Inheritance tax
Life tenants and remaindermen
Trusts and trustees
Wills

INHERITANCE tax

Death tax supremacy; state apportionment of federal estate tax held unconstitutional. G. Simons. Trusts & Estates 74:325-7 Mr '42

Depletion of estate tax sources. F. S. Edmonds. Trusts & Estates 73:493-4 N '41

Double inheritance taxation by states; recent decision permits more than one state to levy death taxes against corporate stock. J. B. Lowe and J. D. Wright. Barron's 22: 5 Je 29 '42

Effects of proposed estate and gift taxes. R. C. Osgood. Trusts & Estates 74:464-5 My '42

Federal estate and gift taxation. R. E. Paul. 2v $20 Little '42

Federal taxation of life insurance and annuities. M. D. Bachrach. J Account 74:162-5 Ag '42

Income, estate and gift tax provisions of the Internal revenue code as amended to Oct. 1, 1941. 329p pa $1 Commerce clearing house '41

Income tax as hidden inheritance tax. H. S. Koster. Trusts & Estates 75:241-2 S '42

Inheritance tax does not apply in North Carolina when insured has no control over policy. Nat Underw (Life ed) 46:8 Jl 3 '42

INHERITANCE tax—*Continued*

Integration of gift, estate, and income taxes; abstract. P. F. Sherman. Trusts & Estates 73:677 D '41

Let's be practical; savings can still be effected. F. L. Morton. Spectator (Life ed) 147:10-11+ sec 2 D 4 '41

Minimizing death taxes. C. M. Winslow and K. R. Clark. 4th ed rev & enl 190p pa $1 Commerce clearing house '42

Multiple death taxation of intangibles, what now? R. C. Brown. Trusts & Estates 75:269-74 S '42

Opportunity in tax anticipation notes. Trusts & Estates 74:85 Ja '42

Proposed tax on powers of appointment. R. Browne. Trusts & Estates 74:619-24 Je '42

Rhode Island tax case of Hazard vs. Bliss. M. L. Hayward. Barron's 22:7 Ja 19 '42

Selling under the new tax law. W. H. Fissell. Spectator (Life ed) 149:14-15 N '42

Tax considerations in drafting wills. P. E. Farrier. Trusts & Estates 73:633-6 D '41

Tax exemptions; charitable bequests, nonresident intangibles, and servicemen's estates. H. H. Romanoff. Trusts & Estates 75:317-18 S '42

Taxation and valuation of reverters. R. B. Barker. Trusts & Estates 74:625-7 Je '42

Taxation of life insurance and annuities. K. R. Clark. 475p $7.50 Callaghan '41

Taxes under your will. J. B. Lowe. Banking 35:52 O '42

Transfers in contemplation of death; recent federal decisions indicate factors determinative of estate tax liability. F. W. Ganse. Trusts & Estates 75:419-25+ O '42

Trends in trust taxation; correlation of income, estate and gift taxes urged. N. E. Pierson. Trusts & Estates 75:91-3 Jl '42

Two constructive tax proposals now before Treasury officials. J. S. Myrick. East Underw 42:1+ D 5 '41; Same. Weekly Underw 145:1269+ D 6 '41; Same abr. Nat Underw (Life ed) 45:5 D 5 '41

U.S. court rules on important tax case; companies not liable for estate levy on trust funds. Nat Underw (Life ed) 46:8 My 15 '42

Accounting

Computation of taxes and remainderman's interest in estate. J Account 74:450-2 N '42

Great Britain

Handbook on the death duties. H. A. Woolley. 4th ed 224p 18s 6d Solicitors' law stationery soc, London '42

Practical epitome of the death duties. D. Harrison. 394p 21s Carswell co. '41

INHIBITORS

Chromate corrosion inhibitors in bimetallic systems; compared by a scoring method based on visual observations. M. Darrin. bibliog il Ind & Eng Chem Anal ed 13:755-9 N 15 '41

See also

Corrosion and anti-corrosives

INITIALS

Hand lettering tells a story for advertisers. C. N. Allen. il Ptr Ink 198:16-17 F 27 '42

INJUNCTIONS

Anti-injunction act not applicable to sales of commodities. Monthly Labor R 54:702-3 Mr '42

INJURIES. See Accidents; First aid in illness and injury; Trauma; Wounds

INJURIES (law). See Personal injuries

INK

All-America package competition; award to W. A. Sheaffer pen co.; Chemopure Skrip bottle. il Mod Packaging 15:186-7+ Ap '42

Answers to questions about coming supply of printing ink. Ptr Ink 198:44-5 Mr 13 '42

Bleachable printing inks. Can Chem & Process Ind 25:167 Ap '41; Same. Pulp & Pa of Can 43:42 Ja '42

Chemistry in the ink industry. C. R. Bragdon. J Chem Educ 19:441-3 S '42

Choice of the correct ink is matter of experience. Inland Ptr 109:55 S '42

Developments in the graphic arts, 1941. M. S. Kantrowitz. Paper Tr J 114:45-6 Mr 26 '42

Higgins ink, flow chart il Mod Packaging 16:88, 90, 92+ S '42

High-speed rotational viscometer of wide range; confirmation of the Reiner equation of flow. H. Green. bibliog il diags Ind & Eng Chem Anal ed 14:576-85 Jl 15 '42

Ink in paper. il Mod Packaging 15:54 Je '42

Ink supply appears ample; latest authentic data. D. H. Sloane. Mod Packaging 15:62 Je '42

Manufacturer foresees no drouth in ink supply. E. A. Luedke. Inland Ptr 109:39-40 Ap '42

Paper characteristics versus ink coverage. G. Cramer. Paper Tr J 114:50-2 Mr 19 '42

Printing inks orders issued by WPB. Oil Paint & Drug Rep 141:3+ Ap 6 '42

Silver ink on offset press. J. Stark. Inland Ptr 108:66-7 F '42

Testing printability of paper with ink; use of an engravers proofpress. F. A. Weymouth. bibliog Paper Tr J 114:37-40 Ap 9 '42

What is tack? H. Green. Paper Tr J 114:39-42 F 5 '42

See also

Color printing

Testing

New all-glass mill. D. B. Pall. il diag Ind & Eng Chem Anal ed 14:345-8 Ap 15 '42

Testing writing inks with rubber fountain pen sacs. R. S. Casey and R. Macdonald. il Ind & Eng Chem Anal ed 14:720-1 S 15 '42

Viscometry of printing inks with the Höppler viscometer; abstract. W. Kühn. Chem & Met Eng 49:161 Ja '42

INK, Bromoil. See Pigments

INK bottles

Unspillable ink bottle; Carter's new dip-well. il Mod Packaging 15:52 Mr '42

INLAND marine insurance. See Insurance, Inland marine

INLAND marine underwriters association

Acts to cut competition from non-association companies. East Underw 43:30 Je 26 '42

W. R. McCain president of association; other officers elected. East Underw 43:18 My 29 '42

INLAND navigation. See River traffic; Waterways

INLAND steel company

Annual report. Comm & Fin Chr 155:1512 Ap 13 '42

Inland makes records in 1941. Blast F & Steel Pl 30:sup59 Ap '42

Inland Steel signs contract with CIO. il Steel 111:43-4 Ag 10 '42

Inland Steel warns of inflation if Labor board grants wage demand. Steel 110:65-7 My 4 '42

P. D. Block career a story of enterprise. Iron Age 150:98+ Jl 9 '42

Stocks cheap under highest taxes. P. Dobbs. Mag of Wall St 70:240-1 Je 13 '42

INLAND waterways. See Waterways

INOCULATION. See Immunity

INOSITOL

Preparation of tetrahydroxyquinone and rhodizonic acid salts from the product of the oxidation of inositol with nitric acid. P. W. Preisler and L. Berger. bibliog Am Chem Soc J 64:67-9 Ja '42

INSANE hospitals. See Hospitals, Psychiatric

INSANITY. See Mental diseases

INSECT baits

Attractants and repellents for insects. E. G. Thomssen and M. H. Doner. bibliog Soap & San Chem 18:97-9+ Ap; 95-6+ My '42

INSECT repellents

No cure-all, sometimes repels some insects; melinis minutiflora, molasses grass. Sci Am 165:343 D '41

See also

Fly sprays and repellents

INSECTICIDE and disinfectant manufacturers, National association of. See National association of insecticide and disinfectant manufacturers

INSECTICIDES

Active principles of leguminous fish-poison plants; robustic acid. S. H. Harper. Chem Soc J p181-2 F '42

Advances in entomology. C. H. Richardson. il Chem & Eng N 20:241-56 bibliog(267 references, p254-6) F 25 '42

Agricultural insecticides; summary of some significant facts from 1942 state experiment station reports. H. H. Slawson. Soap & San Chem 18:91-4+ O '42

Agricultural uses of coal and its products. H. G. Guy. Gas Age 90:56+ O 8 '42

Chemistry of insecticides and fungicides. D. E. H. Frear. 300p $4 Van Nostrand '42

Chronic toxicity of derris. A. M. Ambrose, F. Deeds and J. B. McNaught. bibliog Ind & Eng Chem 34:684-9 Je '42

Derivatives of dithiocarbamic acid as pesticides. W. H. Tisdale and A. L. Flenner. bibliog Ind & Eng Chem 34:501-2 Ap '42

Destruction of housefly larvae and pupae in sewage sludge beds; spraying with no. 2 Diesel oil; army reservation at Camp Shelby, Mississippi. H. Spencer, J. C. Hedden and L. B. Dworsky. il Pub Works 73:17-18 Ag '42

Double check on insecticide reveals unwanted features; 2-acetamidofluorene as cancer cause. Sci Am 166:246 My '42

Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Increased toxicity with rotenone dusts; addition of SAE10 lubricating oil. E. J. Campau, H. F. Wilson and R. L. Janes. Soap & San Chem 18:100-1, 103 Ag '42

Insect sprays from petroleum; formulas. W. L. Nelson. bibliog Oil & Gas J 41:57 Ag 20 '42

Insecticidal action of phenothiazine. J. W. Zukel. Science 96:388 O 23 '42

Insecticidal efficiency of some oils of plant origin. A. W. Cressman and L. H. Dawsey. bibliog diags U S Agric Tech Bul 801:1-15 '42

Insecticidal properties of 1,3-indandiones; effect of acyl groups. L. B. Kilgore, J. H. Ford and W. C. Wolfe. bibliog Ind & Eng Chem 34:494-7 Ap '42

Insecticide makers confer with WPB. Oil Paint & Drug Rep 142:3+ Ag 24 '42

Insecticide solubilizers; abstract. J. F. Kagy and A. M. Boyce. Soap & San Chem 18:103 S '42

Insecticides and the W.P.B. M. Goldberg. Soap & San Chem 18:112-13 Jl '42

Insecticides for control of cotton insects. R. C. Roark. bibliog il Chem & Eng N 20:1169-72 S 25 '42

Insecticides for the army; aerosol program. Soap & San Chem 18:91-3 N '42

Insecticides, fungicides, and hormone sprays. R. C. Roark. il Ind & Eng Chem 34:489 Ap '42

Insecticides; present demand and long-term outlook. R. C. Roark. Oil Paint & Drug Rep 142:7+ Jl 20 '42; Abstract. Chem & Met Eng 49:200-2 S '42

Insecticides pricing method formulated. Oil Paint & Drug Rep 141:7+ My 25 '42

Limited supply of fertilizers and insecticides point to crop shortages in Europe. Chem & Met Eng 49:122 Ag '42

Lower concentrations of rotenone. H. F. Wilson and R. L. Janes. Soap & San Chem 18:93-5+ Mr '42

More than cooties; insecticide supplies adequate for '42. Business Week p64 My 2 '42

N.A.I.D.M. airs its war problems. P. B. Slawter, jr. Chem Ind 51:84-8, 106 Jl '42

NAIDM convention considers problem of supplies. Chem Ind 49:826-7 D '41

New insecticide; Thanite. Science 95:sup10+ My 22 '42

New methods of insect control. W. H. Hillyer. Barron's 22:5 Ag 3 '42

Particle size in relation to insecticide efficiency. C. M. Smith and L. D. Goodhue. bibliog il Ind & Eng Chem 34:490-3 Ap '42

Public health aspects of household insecticides and disinfectants. H. C. Fuller. Soap & San Chem 18:88-90 Ag '42

Scarcity basis because of the war; abstracts. J. R. Hile. Science 95:sup10-11 Je 26 '42; Chem & Met Eng 49:213-14 S '42

Search for new insecticides. H. L. Haller. bibliog(61 references) il J Chem Educ 19:315-21 Jl '42; Abstract. Chem & Met Eng 49:172-3 F '42

Soap speeds production; fights insect pests. Chem Ind 51:616 O '42

Sodium fluoride. bibliog il Soap & San Chem 18:90-3 Ap '42

Thanite, a new Hercules insecticide concentrate. il Chem Ind 51:566-8 O '42

Use of fatty acids in insecticidal aerosols. W. N. Sullivan, L. D. Goodhue and J. H. Fales. Science 94:444-5 N 7 '41

War on agricultural pests; meeting shortages of insecticides and fungicides. Barron's 22:5 My 11 '42

War program and the part which insecticides and disinfectants are playing in it; dermatitis hazards. J. E. Dunn and L. Schwartz. bibliog Soap & San Chem 18:91-4+ Ag '42

What specifications for insecticide base oil? Soap & San Chem 18:87-90+ N '42

What the housewife thinks about insect sprays. C. A. Murray. Soap & San Chem 18:89-91+ S; 95, 97, 99+ O '42

See also

Fly sprays and repellents
Hydrocyanic acid
Methyl bromide
Pyrethrins
Pyrethrum
Rotenone

Analysis

Determination of fumigants; composition of heavy coal-tar naphtha. N. F. Sarsfield. diag Soc Chem Ind J 61:1-6 Ja '42

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42

Polarograph reading directly in percentage; analysis of lead arsenate. B. P. Caldwell and S. Reznek. bibliog diag Ind & Eng Chem Anal ed 14:187-9 F 15 '42

Pyrethrum analysis; the effect of certain aliphatic thiocyanates in the determination of pyrethrin I in mineral oil extracts by the mercury reduction method. J. J. T. Graham. Soap & San Chem 18:101+ Ap '42

Laws and regulations

Agricultural insecticide group hit by cease and desist order. Oil Paint & Drug Rep 142:7+ Ag 3 '42

Canada's Pest control act. Soap & San Chem 18:107, 109+ F '42

Insecticide act enforcement; new regulations interpreted. C. C. McDonnell. Soap & San Chem 18:103-6 Ja '42

Insecticide packaging standards revised. Oil Paint & Drug Rep 142:3+ N 2 '42

Patents

Insect extinguisher patented. Franklin Inst J 234:103 Jl '42

New patents. Published in monthly numbers of Soap and sanitary chemicals

Prices

Agricultural insecticides ceilings clarified. Oil Paint & Drug Rep 142:5+ S 21 '42

Testing

Air treated death house for flies; laboratory of Sinclair refining co. for testing insecticides. il Sheet Metal Worker 33:114+ Ja '42

INSECTICIDES—Testing—*Continued*

Pyrethrum vs. roaches. F. L. Campbell. bibliog il Soap & San Chem 18:90-3, 103+ My; 119+ Je '42

Roach testing; a progress report describing a new method of testing roach sprays. E. R. McGovran and J. H. Fales. diag Soap & San Chem 18:101+ Mr '42

Synthetic organic compounds as potential insecticides; with list of patents. L. E. Smith. Ind & Eng Chem 34:499-501 Ap '42

INSECTS

Attractants and repellents for insects. E. G. Thomssen and M. H. Doner. bibliog Soap & San Chem 18:97-9+ Ap; 95-6+ My '42

Biological and aerodynamical problems of animal flight. E. von Holst and D. Kuchemann. diags Roy Aeronautical Soc J 46:39-56 F '42

General entomology. S. W. Frost. 524p $4 McGraw-Hill '42

INSECTS, Effect of light on

Extra strong heliotropic effect of neon lights. C. N. Ray. Science 94:585-6 D 19 '41; Discussion. H. F. Blum. 95:223 F 27 '42

INSECTS, Effect of temperature on

Stridulations of insects; effect of temperature. H. D. Matthews. Science 95:324-5 Mr 27 '42

INSECTS, Fossil

Occurrence of buenoa elegans (Fieb.) (notonectidae, hemiptera-heteroptera) in the early postglacial sediment of Lyd Hyt pond. G. E. Hutchinson. diags Am J Sci 240:335-8 My '42

INSECTS, Injurious and beneficial

Applied entomology; an introductory textbook of insects in their relations to man. H. T. Fernald and H. H. Shepard. 4th ed 400p $3.50 McGraw-Hill '42

Electricity in vermin control. E. Hardy. Electrician 128:99 F 6 '42

Insect pests. W. C. Harvey and H. Hill. 292p $4.25 Chemical pub. co. '41

Potential insect enemies of guayule. Rubber Age 51:482 S '42

Requirements of parasites for more than hosts. G. N. Wolcott. Science 96:317-18 O 2 '42

See also

Bark beetles
Carpet beetles
Fleas
Insecticides
Japanese beetles
Mosquitoes
Moths
Spruce budworms
Spruce sawfly
Termites

INSECTS as carriers of infection

Public health aspects of household insecticides and disinfectants. H. C. Fuller. Soap & San Chem 18:88-90 Ag '42

See also

Mosquitoes

INSIGNIA

Mexico and United States agree on air raid defense insignia. il Ind Stand 13:254 O '42

United States service symbols. C. H. Smith and G. R. Taylor. 116p $1.50 Duell, Sloan and Pearce, 270 Madison av, New York '42

INSOMNIA

Help your doctor to help you when you have insomnia. W. C. Alvarez and others. 29p 95c Harper '42

How to relax; doctors advise other doctors who can't sleep. Sci Am 166:229 My '42

INSPECTION

Fixtures for checking aircraft engine castings. H. Chase. il Am Mach 86:127-30 F 19 '42

Gages and their use in inspection. F. H. Colvin. 158p $1.50 McGraw-Hill '42

How to handle inspections in war production work. il Steel 110:75-6+ Je 1 '42

How to inspect drums and sheaves used with wire rope; data sheets. A. J. Morgan. diags Factory Management 100:114, 116, 118 F '42

How to provide for inspection of repeated pattern travelling too fast to be seen by unaided vision; stroboscopic equipment in color printing of cloth. A. P. Mansfield. il diag Gen Elec R 44:633-4 N '41

How we doubled the output of our inspectors; Hoover ball & bearing company, Ann Arbor. D. W. Saxton. il diags Factory Management 100:85-7 N '42

Inspecting bolts, nuts and screws; Lamson & Sessions company plants. il Am Mach 86: 496-9 My 28 '42

Inspecting sand castings for aircraft. W. Rodgers. il Foundry 70:104-5, 192-3 My '42

Inspection systems; methods for controlling quality on large-scale production. Automobile Eng 32:31-2 Ja '42

Inspectors need keen vision; tests of women engaged in inspection of rayon yarn. A. W. Ayers. il Textile World 92:96 O '42

Macrographic examination of metals; abstract. N. Metcalf. Metals & Alloys 15:703 Ap '42

Magnetic inspection of aircraft steels. R. L. Fitch. diags Aero Digest 41:178+ Jl '42

Multiple automatic gaging of shell. L. J. Mahlmeister. il Steel 109:64, 66, 68 D 8 '41

Ordnance inspection. R. H. Somers. il Ind Stand 13:155-7 Je '42

Quality-control procedures in ordnance inspection. G. D. Edwards. Mech Eng 64: 673-5 S '42

Roller reception speeds parts inspection; Gemmer conveyor carries incoming materials from truck platform to inspection benches. C. B. Gordy. il diags Factory Management 100:70-2 Mr '42

Sampling and probability. R. H. Parsons. Engineer 173:528-9 Je 26 '42

Sampling inspection; methods of applying statistical analysis for quality control. B. P. Dudding. Automobile Eng 32:109-13 Mr '42

Saved expense of 100 percent inspection. E. H. Shaeffer. Factory Management 100:86+ F '42

Statistical basis of the quality control program. S. S. Wilks. J Eng Educ 32:328-34 D '41

Teaching aids for inspectors; Carnegie institute of technology, courses for training army ordnance inspectors. C. B. Stanton. il diags Am Mach 86:1015-17 S 17 '42

Testing and inspection, 1941 and current trend. J. Stokley. Metals & Alloys 15:92-4 Ja '42

Using double sampling inspection in a manufacturing plant. D. B. Keeling and L. E. Cisne. Bell System Tech J 21:37-50 Je '42

Vague specifications for surface quality hamper aircraft production. C. F. Nagel, jr. il Metal Prog 41:323-9+ Mr '42

Wanted, men over 50! advertisement turns up score of experienced inspectors. L. K. Urquhart. il Factory Management 100:76-7+ F '42

See also

Boiler inspection
Building inspection
Engineering inspection
Factory inspection
Food adulteration and inspection
Gages
Magnetic testing
Mine inspection
Safety inspection

also subdivision Inspection under special subjects, e.g. Diesel engines—Inspection; Locomotives—Inspection; Motor vehicles—Inspection

INSPIRATION consolidated copper company

Common stocks in strategic position. Mag of Wall St 69:503 F 7 '42

Favored stocks from $10 to $25. Mag of Wall St Manual p13 Ap '42

INSTALMENT plan

Consumer credit supports retail trade. Survey of Cur Business 22:32 F '42

Consumer instalment credit and economic fluctuations. G. Haberler. 239p $2.50 Nat. bur. econ. research '42

Hire purchase agreements and owners and users; recent judicial decision. F. E. Sugden. Mech Handling 29:56-7 Mr '42; Same cond. Elec R (Lond) 130:346-7 Mr 13 '42

Instalment credit in our national economy. G. Haberler. Credit & Fin Management 44:11 S '42

INSTALMENT plan—*Continued*

Installment finance companies on the spot. J. C. Clifford. Mag of Wall St 69:700-1+ Ap 4 '42
Instalment loans today. C. A. Bimson. Banking 35:50 S '42
Instalment selling in reverse; paying now for after-war delivery; plan of Marketing research group of War work committee of Advertising club of New York. C. C. Green. il Ptr Ink 199:13-14+ My 22 '42
New Nugent plan. Business Week p61 N 7 '42
New type of cover brought to light by Iowa ban; substitute for recording of chattel liens. Nat Underw 45:21+ N 20 '41
Nugent reverse credit plan. Bankers M 145: 261 S '42
Nugent's panacea; instalment selling in reverse. Business Week p67-8 Jl 18 '42
Pay now for goods to be delivered after the war; plan studied by OPA. Steel 111:32-3 Jl 27 '42
Plan for instalment purchase of peace priorities; goods for post-war delivery. Trusts & Estates 74:547-9 Je '42
Repairs on credit; instalment companies finance automobile overhauling. Business Week p46+ Ja 10 '42
Surveying installment loan possibilities in 1942. M. R. Bone. Burroughs Clearing House 26:3-4 Ap '42
Thirty-six notes replaced by one; Prosperity company, inc, Syracuse; credit for purchasers of pressing machines. G. T. Simpson. Credit & Fin Management 44:13-16 Ap '42

See also
Loans, Bank—Instalment payment

Accounting

Mathematics of installment credit; formula. Credit & Fin Management 44:32 Ap '42

Bibliography

Instalment plan: a selected list of references. A. L. Baden, comp. 41p U.S. Lib. of Congress, Div. of bibliography, Washington '41 [Free to institutions only]

Finance

Proceedings, consumer credit conference, American bankers asociation, St Louis, Mo, April 23-25, 1941. 214p $2.50 Am. bankers assn, Consumer credit dept, New York '41
Small town bank makes profits on consumer financing. G. A. Haven. il Bankers Mo 59:10-11 Ja '42
War's effects on consumer lending. J. H. Lucas. Bankers M 144:389-96 My '42

Regulation

Automobile appraisal guides; list designated by the Board of governors of the Federal reserve system. Banking 34:64-6 My '42
Benefits of Regulation W. A. J. Wagner. Credit & Fin Management 44:10-11 S '42
Consumer credit; amendments to Regulation W. Fed Res Bul 28:203-6, 755-6, 878-9 Mr, Ag-S '42
Consumer credit; forms of statement of borrower and statement of necessity. Fed Res Bul 28:7-8 Ja '42
Consumer credit; interpretations of Regulation W. Fed Res Bul 27:1217-18; 28:8-11, 102-3, 206-7, 303-4, 423-4, 532, 633-4, 756-9, 879 D '41-S '42
Consumer credit restrictions in Canada. For Comm W 6:12 Mr 21 '42
Diagram of Regulation W as revised May 6, 1942. Banking 35:42 Jl '42
Federal reserve board broadens consumer credit regulation, covers instalment loans. Comm & Fin Chr 155:1780 My 7 '42
Federal reserve regulation of consumer credit. W. F. Treiber. J Account 72:500-9 D '41
Further contraction of credit to individuals. H. D. Ralph. il Burroughs Clearing House 26:18-19 Je '42
Further installment buying restrictions in Canada. Burroughs Clearing House 26:26+ F '42
Hitch develops in insurance loans at banks. Nat Underw (Life ed) 46:3 Je 26 '42
How Regulation W will affect banking. C. W. Flora. Bankers M 144:26-31 Ja '42
Instalment credit regulations amended by Federal reserve board, effective Dec. 1. Comm & Fin Chr 154:1039 N 13 '41
Instalment sales rule under Regulation W. Comm & Fin Chr 155:2040 My 28 '42
Layman's handbook of Regulation W. J. G. Dakins. 188p pa $1.25; to members 75c National retail credit assn, 218 Shell bldg, St Louis '42
Lending operations under Regulation W discussed at N.Y. state bankers meeting. L. B. Allen. Comm & Fin Chr 155:2136 Je 4 '42
May 6th revisions of Regulation W. S. Koptis. Bankers M 145:36-40 Jl '42
Names used-car guides under credit rules. Comm & Fin Chr 155:1345 Ap 2 '42
New consumer credit rules. W. B. French. Banking 34:83 D '41
New installment loan regulations explained to customers. B. S. DuVal. Bankers M 144: 538 Je '42
Regulation of consumer credit. Fed Res Bul 28:399-409 My '42
Regulation W and interpretations simplified; the layman's manual. J. G. Dakins. 91p pa 50c; to members 25c National retail credit assn, 218 Shell bldg, St Louis '42
Regulation W as revised effective May 6, 1942: consumer credit. Fed Res Bul 28:410-23 My '42
Regulation W is amended. Banking 34:10+ Ap '42
Reserve board amends consumer credit rules. Comm & Fin Chr 156:1449 O 22 '42
Statement of purpose form. Bankers M 144: 70 Ja '42
Tighten regulations on instalment credit. Comm & Fin Chr 155:1153 Mr 19 '42
Urges registration under consumer credit rules. Comm & Fin Chr 156:379 Jl 30 '42

Statistics

Instalment loans of insured banks, Dec. 31, 1941. Fed Res Bul 28:438-40 My '42
Personal loans and retail instalment paper of insured banks, June 30, 1942. Fed Res Bul 28:995-6 O '42
Statistics of consumer loans at commercial banks. Fed Res Bul 28:992-4 O '42
Volume of consumer instalment credit as reported by Regulation W registrants. Fed Res Bul 28:434-7 My '42

INSTITUTE for instrument research (proposed)
Institute for instrument research is outlined. R. H. Muller. Instruments 15:4 Ja '42

INSTITUTE of Andean research
Recent archeological research in Latin America. W. D. Strong. Science 95:179-83 F 20 '42

INSTITUTE of boiler and radiator manufacturers
Annual meeting, New York, Dec. 9-10. Heat & Ven 39:115-16 Ja '42

INSTITUTE of British foundrymen
Annual meeting and conference, 39th, London. V. Delport. Foundry 70:91-2+ Ag '42
Annual meeting, London, June 20. Engineer 174:14 Jl 3 '42

INSTITUTE of food technologists
Annual convention, Minneapolis, June 14-17. Food Ind 14:41-3 Jl '42; Science 95:sup 10+ Je 19 '42; Mod Packaging 15:58+ Jl '42
Annual meeting plans, officers, etc. Science 95:375 Ap 10 '42

INSTITUTE of gas technology
Fellowships from Institute of gas technology for thirteen. Gas Age 90:80 Jl 16 '42
Institute of gas technology. H. T. Heald. Am Gas Assn Proc 1941:29-30; Same. Am Gas Assn Mo 23:437-8 D '41
Institute of gas technology in action. H. Vagtborg. Gas J (Lond) 239:246+ Ag 12 '42
New appointments to staff. Gas Age 90:14 O 22 '42; Am Gas Assn Mo 24:406 N '42

INSTITUTE of gas technology—*Continued*
Opens 2nd academic year. Am Gas J 157:49 N '42
Research during and after the emergency. F. M. Banks. Am Gas Assn Proc 1941:26-9; Same. Am Gas Assn Mo 23:435-7+ D '41
Research program of the Institute of gas technology. H. Vagtborg. Mech Eng 64:802-4 N '42
Sullivan goes to Institute of gas technology. Chem & Eng N 20:1089 S 10 '42
Technology for the gas industry. H. Vagtborg. il Gas Age 89:29-31+ Ja 15 '42

INSTITUTE of home office underwriters
Annual meeting, 6th, St Louis, Oct. 15-16. East Underw 43:10+ O 23 '42; Ins Field (Life ed) 71:5+ O 23 '42; Nat Underw (Life ed) 46:3+ O 16; 3+ O 23 '42

INSTITUTE of life insurance
Annual meeting, 3d, New York, Dec. 10. East Underw 42:34 D 12 '41; Ins Field (Life ed) 70:9-10 D 12 '41; Nat Underw (Life ed) 45:13+ D 12 '41; Weekly Underw 145:1356+ D 13 '41
Institute films subjected to test. Nat Underw (Life ed) 46:8 Mr 13 '42
Launch "keep well crusade"; life insurance under Institute leadership. Weekly Underw 146:1437, 1470-1 Je 27 '42; East Underw 43:1+ Je 26 '42; Nat Underw (Life ed) 46:1+ Je 26 '42

INSTITUTE of metals
Annual autumn meeting, 34th, London, Sept. 23. Engineering 154:275-6 O 2 '42
Annual meeting, 34th, London, March 11. Engineering 153:233, 256-7 Mr 20-27 '42

INSTITUTE of paper chemistry. See Lawrence college—Institute of paper chemistry

INSTITUTE of petroleum
Twenty-eighth annual report, 1941; Trinidad branch report; annual general meeting. Inst Pet J 28:83-96 Je '42

INSTITUTE of radio engineers
Annual meeting, New York, Jan. 12-14. Electronics 15:31-4, 110-18 F '42
Convention, Cleveland, June 29-July 1. Electronics 15:62, 64, 66+ Ag '42
Fall meeting, Rochester, Nov. 10-12; abstracts of papers. Electronics 14:31-5+ D '41
Institute committees, 1942; representatives in colleges and other bodies. Inst Radio Eng Proc 30:489-92 O '42
Institute moves ahead in 1941. F. E. Terman. Inst Radio Eng Proc 29:656-7 D '41
Summer convention, Cleveland, June 29-July 1; program, summaries of papers. Inst Radio Eng Proc 30:247-55 My '42
Winter convention, New York, Jan. 12-14; program; summaries of papers. Inst Radio Eng Proc 29:662-7 D '41

INSTITUTE of scrap iron and steel
Annual meeting, Chicago, Feb. 21-22. Iron Age 149:124 F 26 '42; Steel 110:59 Mr 2 '42

INSTITUTE of the aeronautical sciences
Aeronautical archives exhibit at University club in New York. il J Aeronautical Sci 9:264-6 My '42
Annual meeting, 10th, New York, Jan. 28. J Aeronautical Sci 9:153-8 F '42; Automotive & Aviation Ind 86:28-9+ F 15 '42; Aviation 41:66-7, 204-5 Mr '42
Annual meeting, 10th, New York; review of technical papers. A. Klemin. J Aeronautical Sci Aeronautical R Sec 9:9-17 Mr '42
Gift of Daniel Guggenheim estate at Sands Point, L.I. Science 95:642 Je 26 '42
Gifts to the Institute by Mrs Guggenheim and G. L. Martin. il Aeronautical Eng R 1:5-11 Jl '42
Honors night and tenth anniversary dinner. J Aeronautical Sci 9:142-51 F '42

INSTITUTE on accounting
Proceedings of the fifth annual Institute on accounting held at the Ohio state university, May 15-16, 1942. 130p Bur. of business research, College of commerce and administration, Ohio state univ, Columbus '42

INSTITUTES, Technical. See Technical education

INSTITUTION of chemical engineers
Annual corporate meeting, 20th, London, March 27. Chem Age (Lond) 46:177-9 Ap 4 '42; Chem & Ind 61:171-3 Ap 11 '42

INSTITUTION of electrical engineers
Future of the Institution and the electricity supply engineer. R. H. Rawll. Inst E E J 89 pt 1:98-101 F '42; Abstract. Electrician 127:267 N 7 '41
I.E.E. council; is it really representative? J. W. Thomas. Elec R (Lond) 131:181-2 Ag 7 '42
I.E.E. in 1941-42; Council's report. Elec R (Lond) 130:596-7 My 8 '42
Lord Hirst fund. Electrician 129:380-1 O 9 '42; Elec R (Lond) 131:457 O 9 '42
New president and officers and council members. Electrician 129:216 Ag 28 '42
Officers. pors Elec R (Lond) 129:429-30 O 24 '41
Post-war planning committee. Electrician 127:238 O 24 '41
Report of the Council for the year 1941-1942. Inst E E J 89 pt 1:253-74 Je '42; Excerpts. Elec R (Lond) 130:596-7 My 8 '42; Electrician 128:444-5 My 8 '42

Library

Institution library. Inst E E J 89 pt 1:1-2 Ja '42

INSTITUTION of gas engineers
Annual meeting, 79th, London, June 10. Gas J (Lond) 238:452-62+ Je 17 '42
Report of the chairmen's technical committee, 2d, 1940-41. Gas J (Lond) 237:245-6 F 18 '42
Summaries of Institution communications. Gas J (Lond) 237:354+ Mr 11 '42; Discussion. 238:61-2, 101-2, 242, 245 Ap 8-15, My 13 '42

INSTITUTION of mechanical engineers
Annual general meeting, London, Feb. 20. Engineering 153:174-5, 195-6 F 27-Mr 6 '42
Annual report of the council for the year 1941. Inst Mech Eng J & Proc 147:Proc 1-32 Ap '42; Excerpts. Engineer 173:177-8 F 27 '42
Brief subject and author index of papers in the Proceedings, 1847-1941 and in the Journal, March 1939-March 1942. 182p The Institution, Storey's Gate, St. James's park, London, S.W. 1

INSTITUTION of naval architects
Annual meeting, London, March 26. Engineering 153:274 Ap 3 '42

INSTITUTIONAL advertising. See Advertising, Institutional

INSTITUTIONAL market
Fixt Foods shows jobbers how to sell to institutional customers. L. Wall. il Sales Management 50:48+ Ja 15 '42

INSTITUTIONS, Public

See also
Hospitals
Old age homes
Prisons

Employees

Maintenance of institutional employees; summary of values established in the various states. 36p pa 50c Council of state governments, 1313 E. 60th st, Chicago '42

INSTRUCTION in use of product
Conservation is encouraged by Disston control plan; cards give instructions in correct, economical use of tools. il Steel 110:60 Ja 26 '42
Disston conservation control plan is farvisioned effort. il Ind Marketing 27:20-1+ Mr '42
Fighting booklets help in home front warfare. C. J. Swan. il Ptr Ink 199:16-17+ Je 12 '42
Gypsum house organs in publications do educational job; builders and architects shown how extensive line of USG products may be used to achieve desired results. H. O. Hayes. il Ind Marketing 27:20-1 Jl '42

INSTRUCTION in use of product—*Continued*

How to conserve tools; Disston conservation control cards. Factory Management 100:80 Mr '42

Industrial copy dons overalls. M. K. Powers. Adv & Sell 35:42 Ap '42

Industry's war on waste of time, labor and materials exemplified in Disston's campaign; cards instruct in care and use of tools. W. Gebhart. Ptr Ink 198:19-20 F 13 '42

Promotion programs assume form of training within industry. il Ind Marketing 27: 44+ Je '42

INSTRUCTIONS

Foundry orders should carry complete information. A. E. Grover. Foundry 70:56-7, 118+ Je '42

How Buick standardizes methods; Standard procedures book. Am Business 12:12+ O '42

See also

Employees' manuals
Safety instructions and training

INSTRUCTOR (periodical)

Instructor proves its power in the children's market. Sales Management 51:52 Ag 1 '42

INSTRUMENT dials. See Dials, Instrument

INSTRUMENT flying. See Aviation—Instrument flying

INSTRUMENTS

Advances in instrument design. il diag Chem Age (Lond) 46:216-17 Ap 25 '42

Conserve control instruments in design of wartime plants, refiners urged. M. B. Miller. Nat Pet N 34 pt 2:R353-4 O 28 '42

Instrument education and training; P. R. Ewald's model ESMDT course. Instruments 15:90, 92 Mr '42

Instrumentalize for production. il Rayon 23: 171-5 Mr '42

Instrumentation and automatic control; Calco chemical division reports on engineering and maintenance of instruments for Bound Brook, N.J., plant. W. B. Heinz and W. T. Henrichson. il Chem Ind 50:210-13 F '42

Instrumentation, 1941 and current trend. M. J. Bradley. il Metals & Alloys 15:94-6 Ja '42

Instrumentation studies; measurement of the tensile strength of paper. diags Paper Tr J 115:12, 14-15, 18 Jl 30; 14, 16-18, 21-2 Ag 13; 18, 20, 22 N 5; 14-16, 21 D 24 '42

Instrumentation studies; Thwing multiple fold tester. il Paper Tr J 114:20+ Mr 26 '42

Instruments in the pulp and paper industry. J. N. Franklin. Pulp & Pa of Can 43:306-10, 434-5+, 695-7, 817-20+ Mr, My, Ag, O '42 (to be cont)

Jewels in time-pieces and instruments. P. Grodzinski. diags Engineering 152:518-19 D 26 '41

Language of instrumentation; some problems of terminology, letter symbolism, graphic symbolism, etc. Instruments 15:298-305+ Ag '42

Location of new and rare instruments; offers and requests. D. H. Killeffer. Science 96: 382 O 23 '42

Maintenance of control instruments in the pulp, paper, and paperboard industry. H. O. Ehrisman. Paper Tr J 114:92-3 Je 25 '42; Same. Paper Ind 24:426 Jl '42

OPC issues recommendations on use of refinery instruments. diags Oil & Gas J 41: 48-9 O 15 '42

Proper instrument maintenance keeps plants on stream. R. C. Kennan. il Oil & Gas J 40:153-5 Ap 30 '42

Recent developments in laboratory apparatus and instruments. W. B. Warren and H. Draving. il diag Chem Ind 51:544-8 O '42

Redesigns of small parts. il diags Product Eng 13:226-35 Ap '42

Reporting what's new in equipment. il Chem & Met Eng 48:109-13 N '41

Review of power and mechanical equipment; meters and instruments. il diags Power 85: 954-7 Mid-D '41

Sixty-seven typical *Instruments* readers editorialize. Instruments 15:2-32 Ja '42

Speed control for sector disks or similar equipment. R. H. Lee and L. R. Crisp. diags R Sci Instr 12:607-8 D '41

Steel furnace instrumentation, with special reference to soaking-pit and open-hearth. M. J. Boho. flow chart il diags Instruments 15:167-72 My '42

Testing and control instruments. Metal Prog 42:687-96 O '42

Textiles lead in instrumentation advance. R. Trautschold. il Rayon 23:623-5+ O '42

See also

Aeronautic instruments
Balances
Control equipment
Electric apparatus and appliances
Electric instruments
Magnetic instruments
Measuring instruments
Optical instruments
Physical instruments
Profilometers
Radio instruments
Recording instruments
Scientific apparatus and instruments
Stroboscopic instruments
Surgical instruments and apparatus
Surveying instruments

Directories

1942 Instruments index. Instruments 15:1-96 pt 2 Ja '42

Standards

Company makes start on standardization of instruments. P. MacGahan. Instruments 15: 28 Ja '42

Testing

American Coils' chamber for testing instruments. il Refrig Eng 44:322 N '42

INSTRUMENTS, Electric. See Electric instruments

INSULATING bushings. See Bushings, Insulating

INSULATING materials

Anodizing tank short circuits overcome; linings of Unichrome Resist sheet. O. H. Loven. il diag Iron Age 150:98-100 O 1 '42

Cable materials and developments. S. W. Melsom. Inst E E J 89 pt 1:56-7 Ja '42; Abstracts. Elec R (Lond) 129:540 N 14 '41; Chem Age (Lond) 45:271 N 22 '41

Cellulose acetate yarn for wire insulation. D. R. Brobst. il Mod Plastics 19:50+ Mr '42

Compounding Buna S synthetic rubber; summary on compounds for wire insulation. India Rubber W 107:36-9 O '42

Dilectene, a new insulating material; aniline-formaldehyde synthetic resin. S. A. Rulon. il Mod Plastics 19:72-4 Je '42

Electric cable insulation from synthetic rubbers. S. E. McCrary and others. India Rubber W 107:157-62+ N '42

Electrical properties of solids. R. M. Fuoss. J Chem Educ 19:231-5 My '42

Frictional phenomena; applications of liquid viscosity to electrical insulating liquids, particularly in high voltage cables. A. Gemant. bibliog diags J Ap Phys 13:290-9 My '42

Guayule rubbers in wire and cable insulation. R. E. Morris and others. Rubber Age 51:479-81 S '42

Improved ceramic dielectric materials. M. D. Rigterink. bibliog il R Sci Instr 12:527-34 N '41

Injection-molded Mycalex. T. N. Willcox. il Mod Plastics 19:54-5+ Ap '42

Insulation aboard U.S. navy vessels. J. B. Lunsford. il Mod Plastics 20:45-9+ O '42

Insulator manufacture; use of various materials; abstracts. C. S. Garland. Elec R (Lond) 130:431-2 Ap 3 '42; Electrician 128: 306+ Ap 3 '42

Laminated densified wood; insulating properties and tooling applications; Jabroc. A. E. L. Jervis. il diags Elec R (Lond) 130: 395-7 Mr 27 '42; Abstract. Elec W 118:1144+ O 3 '42

Mica and its conservation; properties, uses, etc. Product Eng 13:97-9 F '42

INSULATING materials—*Continued*

Outdoor bushings; their construction, testing and standardization. W. A. Cook. bibliog diags Inst E E J 88 pt 2:302-25 Ag '41; Discussion. 88 pt 2:325-41; 89 pt 2:256-67 Ag '41, Je '42

Physical properties of high frequency electrical ceramic insulating parts; requirements for Steatite insulating materials. A. Gunzenhauser. il Cer Ind 39:68, 70, 72 N '42

Pick wire that fits the job. G. M. Van Lear. il Factory Management 100:118-20 S '42

Specifications and tests for manufactured products; electrical insulators; radio insulators. Am Cer Soc J (Bul) 21:25, 34 F 15 '42

Steatite and special ceramic materials; their development, application, and manufacture. A. Gunzenhauser. il Cer Ind 37:41-2, 44+ D '41

Styramic for high frequency insulation; physical and mechanical properties of Styramic and Lustron; properties of various insulating materials. T. S. Carswell and R. F. Hayes. il Mod Plastics 19:68-70+ F '42

Technical progress during 1941. A. R. Dunton. Electrician 128:61-2 Ja 30 '42

Transformer insulation; electrical and mechanical characteristics for oil immersion. C. H. Pike. bibliog il Elec R (Lond) 131:141-4 Jl 31 '42

Tropical climate and telecommunication technique. W. M. H. Schulze. Wireless Eng 19:304-8 Jl '42

Tubing for electrical insulation; Transflex. il Sci Am 166:242 My '42

Ultra high frequency insulation; Dilectene. il Electronics 15:130 Ap '42

War substitutions for wire and cable insulations. C. A. Finkel. Elec W 118:613-16 Ag 22 '42

See also

Glass—Electric properties
Glass fibers
Oil, Insulating
Paper, Insulating
Porcelain, Insulating
Rubber

Manufacture

Insulator design; securing economy in manufacture. E. Rosenthal. il diags Elec R (Lond) 131:9-10 Jl 3 '42

Porcelain insulators; design in relation to manufacturing processes. E. Rosenthal. il diags Elec R (Lond) 130:755-8 Je 12 '42

Testing

Light and accelerated light aging of rubber, synthetic rubber, and rubber substitutes; wire insulation stocks. T. A. Werkenthin and others. il Rubber Age 50:199-202 D '41

Measurements of power factor and dielectric constant at ultra high frequencies. K. G. Coutlee and others. il Am Soc T M Proc 41:1172-82 '41

Report on round-robin tests of power factor and dielectric constant for glass. P. A. Richards. diags Am Soc T M Proc 41:1183-97 '41

INSULATING oil. See Oil, Insulating

INSULATING paper. See Paper, Insulating

INSULATING porcelain. See Porcelain, Insulating

INSULATING tape

Factors affecting the mechanical deterioration of cellulose insulation. F. M. Clark. bibliog il Elec Eng 61:Trans 742-9 O '42

INSULATION (electric)

Acid bath cleans dirty insulators coated with cement dust. il Elec W 117:1700+ My 16 '42

Compressed air used for insulation. diag Elec W 117:111 Ja 10 '42

Factors affecting the mechanical deterioration of cellulose insulation. F. M. Clark. bibliog il Elec Eng 61:Trans 742-9 O '42

Glass fiber insulation used for brass furnace. Iron Age 150:39 S 24 '42; Same. Elec W 118:1486 O 31 '42

Hot-wire device removes insulation. il Elec W 118:475 Ag 8 '42

How to estimate line insulation; charts. A. C. Monteith. Elec W 117:2252 Je 27 '42

Metropolitan-Vickers insulation-stripping machine for wires and cables. il Engineering 153:517 Je 26 '42

National research council conference reviews insulation; abstracts of papers. Elec Eng 61:30-4 Ja '42

Physics of a transmission line. W. M. Thornton. bibliog Inst E E J 88 pt 2:561-7 D '41

Rats or birds can't short this bus; use of Flamenol insulation. il Elec W 116:1738 N 29 '41

Surge propagation; suspension chain insulators; post insulators, leading-in insulator tubes and terminal bushings. T. F. Wall. Engineering 154:154 Ag 21 '42

Transmission of power in compressed gas atmospheres; library research. H. M. Hobart. diags Franklin Inst J 234:251-73, 331-54 S-O '42

WPB order on rubber insulation; emergency specifications for rubber covered wire and cable and its substitutes. Elec West 89:66 O '42

See also

Dielectrics
Electric cables
Electric resistance
Electric wiring
Insulating materials
Oil, Insulating
Porcelain, Insulating
Power factor, Dielectric

Testing

A.c. generator insulation testing progresses. L. W. Smith. il Elec W 118:607-9 Ag 22 '42

Direct-reading aircraft insulation tester. W. N. Lambert. diag Electronics 15:84+ Ap '42

Electrical maintenance of large rotating machinery. J. S. Askey. il diags Power Pl Eng 46:82-4 Jl '42

Electrical strength of nitrogen and Freon under pressure. H. H. Skilling and W. C. Brenner. bibliog Elec Eng 61:Trans 191-5 Ap '42

Field measurements of insulation. E. A. Burton, J. S. Forrest and T. R. Warren. bibliog diags Inst E E J 89 pt 2:288-305 Ag '42; Abstracts. Elec R (Lond) 130:207-8 F 13 '42; Electrician 128:123-4 F 13 '42; Discussion. Inst E E J 89 pt 2:305-16 Ag '42

Field testing of generator insulation. bibliog il diag Elec Eng 60:Trans 1003-11 D '41; Same. Edison Elec Inst Bul 10:25-32+ Ja '42

Instrument transformers; new insulation level requirements of apparatus and how they have been met. W. K. Dickinson. il Gen Elec R 45:517-20 S '42

Insulation resistance meter. T. J. Rehfisch. bibliog diags Wireless Eng 19:49-51 F '42

Insulation tests; application to a.c. distribution networks. G. W. Stubbings. diag Electrician 128:616-17 Je 19 '42

Meter insulation tested on table rails. C. Iatonna. diag Elec W 117:1222 Ap 4 '42

Motor insulation, heat, and moisture. P. H. McAuley. bibliog Elec Eng 61:Trans 707-12 O '42

Progress report of d-c testing of generators in the field. E. R. Davis and M. F. Leftwich. il diags Elec Eng 61:Trans 14-18 Ja '42

Some problems encountered on a distribution system, with special reference to Shanghai. V. Sia. Inst E E J 89 pt 2:148-9 Ap '42

Supply system maintenance; ready aid afforded by electrical measurements. C. W. Marshall. Elec R (Lond) 129:733-4 D 26 '41

Temperature-aging tests on class-A-insulated fractional-horsepower motor stators. J. A. Scott and B. H. Thompson. bibliog Elec Eng 61:Trans499-501 Jl '42

Temperature and electric stress in impregnated-paper insulation. J. B. Whitehead and W. H. MacWilliams, jr. bibliog Elec Eng 61:Trans 10-13 Ja '42

Tests of insulation vital aid to service. Elec W 118:652+ Ag 22 '42

INSULATION (heat)

Armstrong's Foamglas for cold storage insulation. il Am Bld 64:54 Jl '42; Heating-Piping 14:sup113 Jl '42; Refrig Eng 44:36-7 Jl '42

Building insulation; a treatise on the principles and application of heat and sound insulation for buildings. P. D. Close. 328p $3 Am. technical soc, Chicago '41

Celotex makes new cold storage insulation from cane stalks. il Refrig Eng 43:304 My '42; Sci Am 167:154 O '42

Cork for insulation. Product Eng 13:165 Mr '42

Eagle-Picher plastic insulation. Rock Prod 45:75 S '42

Elements of heat transfer and insulation. M. Jakob and G. A. Hawkins. 169p $2.50 Wiley '42

Emergency merchandising for sheet metal men. C. P. Balsam. Sheet Metal Worker 32:41-2+ N '41

Felt meets wartime demands. C. Carmichael. diags Machine Design 14:65-6 O '42

Fiberglas A-E board. il Refrig Eng 43:234 Ap '42

Fiberglas insulation in the low-temperature field. J. B. Schneller. il diags Refrig Eng 43:280-2 My '42

Fuel savings of insulation told; abstract. P. D. Close. Am Bld 64:72 My '42

Heat insulation, its relation to mill efficiency. R. C. Parlett. bibliog Paper Tr J 114:27-38 Je 4 '42

Heat insulators; abstract. E. Griffiths, R. W. Powell and M. J. Hickman. Elec R (Lond) 130:402-3 Mr 27 '42

Heat loss studies in four identical buildings to determine the effect of insulation. D. B. Anderson. il plans Heating-Piping 14:499-508 Ag '42

Home insulation with mineral products; conservation of fuel for war. O. Bowles. U S Bur Mines Information Circ 7220:1-11 '42

How to insulate flanges; illustrated instructions. Power 86:128 F '42

Hydrated lime for thermal insulation. F. C. Mathers and H. S. Wilson. Rock Prod 45:58+ S '42

Insulate the fire back! Gas J (Lond) 238:101-2 Ap 15 '42

Insulating fire brick in modern furnace construction; with cost data. N. A. Humphrey. Blast F & Steel Pl 29:1197-1201 D '41

Insulation and heating requirements. map Dom Eng 159:48-9+ My '42

Insulation board made of glass replaces cork. Sci Am 166:234-5 My '42

Insulation for low temperature test rooms; using the Schmidt diagram for determining heat flow. L. C. Leslie. Refrig Eng 44:299-301 N '42

Insulation, here's another aid to fuel conservation. Dom Eng 159:33+ Je '42

Insulation is a job for heating contractors. Dom Eng 159:42+ Ap '42

Insulation of cold pipe lines; data sheet. diags Heating-Piping 14:415 Jl '42

Low transmission of heat and cold in walls of concrete masonry. Concrete 50:14-15+ N '42

Metal saving with insulation. Sheet Metal Worker 33:31 Je '42

Mineral wool board. il Chem & Met Eng 49:107 Jl '42

NMWA's fuel saving campaign. Sheet Metal Worker 33:42 Jl '42

New insulating material; perlite. Comp Air M 47:6694 Mr '42

No priorities on insulation or ideas; insulating and remodeling; United States gypsum research home. il Dom Eng 160:36-7+ Jl '42

Packing, insulation and roofing. Paper Ind 24:525-6 Ag '42

Practical system of units for the description of the heat exchange of man with his environment; insulation of clothing. A. P. Gagge, A. C. Burton and H. C. Bazett. Science 94:428-30 N 7 '41; Abstract. Heat & Ven 39:33 F '42

Protecting water-cooled equipment on open-hearth furnaces. J. B. Luckie. il diags Steel 110:70, 72+ Ja 12 '42

Quartermaster specialists test substitute insulation for use in field. Refrig Eng 44:272+ O '42

Reduce heat losses with insulation. Textile World 92:118 S '42

Relation of permeability and specific gravity of insulating refractories. P. G. Herold, L. Stearns and W. J. Smothers. diag Mo U Sch Mines & Met Bul tech ser v 14 no 4:1-51 '42

Repairing roofs without priority materials; two sprayed on coatings of transparent mastic and slate granules. il Sheet Metal Worker 33:27-8+ O '42

Save your business with insulation. C. P. Balsam. il Sheet Metal Worker 33:30-2 Jl '42

Simultaneous heat and vapor transfer characteristics of an insulating material. F. G. Hechler, E. R. McLaughlin and E. R. Queer. bibliog diags Heating-Piping 14:574-8; Discussion. 578-9 S '42

Specific heat of thermal insulating materials. G. B. Wilkes and C. O. Wood. il diags Heating-Piping 14:370-4 Je '42

Specification standards for government work. H. R. Sleeper. Arch Rec 91:92 Ap '42

Specifications for mineral wool in low temperature installations. diags Refrig Eng 43:287-91 My '42

Thermal insulating materials for industrial equipment. S. V. Saginor. diags Product Eng 13:494-7 S '42

Thickness of insulation required to prevent sweating on cold pipe lines. R. N. Hosey. il tables Heat & Ven 39:49-53 S '42

Use of insulation to avoid alterations to heating plant. T. W. Reynolds. Heat & Ven 39:28 Mr '42

WPB issues wartime rules for house heating. charts maps Arch Rec 91:63-6 Ap '42

See also

Asbestos
Building—Heating aspects
Refrigeration and refrigerating machinery
Refrigerator cars

INSULIN

Absorption and distribution of insulin labelled with radioactive iodine. L. Reiner, A. S. Keston and M. Green. Science 96:362-3 O 16 '42

Effect of insulin on pyruvic acid formation in depancreatized dogs. E. Bueding and others. bibliog Science 95:282 Mr 13 '42

Effect of insulin shock on learning in the white rat. L. Berman and B. Riess. Science 95:511-12 My 15 '42

Food and drug administration to control insulin. Chem & Eng N 20:50 Ja 10 '42

Production of permanent hyperglycemia and glycosuria by the prolonged administration of insulin. I. A. Mirsky and others. Science 95:583-4 Je 5 '42

INSULL utility investments, inc.

Way paved for suit. Comm & Fin Chr 155:1013 Mr 9 '42

INSURABLE interest

Court holds one who borrows car may have an insurable interest. East Underw 43:35 Ap 10 '42

Insurable interest in church building defined by Massachusetts court. East Underw 43:24 Ap 10 '42

Insurable interest in life of godmother upheld. East Underw 43:11 Ja 2 '42

INSURANCE

Asks unity of insurance interests. F. A. Moreton. East Underw 42:18 N 14 '41

Attacks arbitrary rulings, other abuses; calls upon insurance industry to hasten revision of practices. J. A. Diemand. Ins Field (Fire ed) 71:7+ Ja 29 '42; Abstracts. East Underw 43:1+ Ja 30 '42; Nat Underw 46:3+ Ja 29 '42

Capital invested in insurance stocks has suffered less from war or catastrophe. F. L. Brokaw. Weekly Underw 146:586 Mr 14 '42

Certain flaws found in interpretations made by article in Time on insurance. Ins Field (Fire ed) 71:9 Mr 26 '42

Check your insurable values; abstract. Management R 30:419-20 N '41

INSURANCE—*Continued*

Constructive and purposeful progressive movements should proceed unimpeded; abstracts. J. J. Magrath. Ins Field (Fire ed) 71:22-3 My 28 '42; Nat Underw 46:4+ My 28 '42; East Underw 43:33 My 29 '42; Weekly Underw 146:1201+ My 30 '42

Emergency demands greater efficiency. M. W. Mays. Weekly Underw 146:22+ Ja 3 '42

General insurance. J. H. Magee. rev ed 829p $4.25 R. D. Irwin, 332 S. Michigan av, Chicago '42

Insurance can meet any demands of war. P. F. Jones. Weekly Underw 145:1441 D 27 '41

Insurance coverage of a typical company. R. Fleming and others. 54p Am. management assn, 330 W. 42d st, New York '42

Insurance ready for national emergency; commissioners will cooperate 100%. J. C. Blackall. Weekly Underw 146:47-8+ Ja 3 '42

Insurance will survive war and after. P. F. Jones. Comm & Fin Chr 155:1784 My 7 '42

Observations of an insurance buyer; abstract. H. Anderson. Management R 30:459-60 D '41

Plea for business unity; abstracts. R. W. Forshay. East Underw 43:24 Mr 27 '42; Nat Underw 46:5+ Mr 26 '42

Plenty for insurance to do; work of agents and companies in war effort; abstracts. E. C. Stone. Nat Underw 46:17+ Ja 22 '42; Weekly Underw 146:217+ Ja 24 '42

Scans half century; war's effect on insurance; abstracts. A. M. Best. Nat Underw 45:5+ N 27 '41; East Underw 42:26 N 28 '41

Sun shines bright; optimistic view of the future of insurance. S. S. Huebner. Ins Field (Fire ed) 71:20-1, 23-4 Ap 30 '42

War and its immediate effect upon insurance. Nat Underw 45:3+ D 11 '41; Same. Nat Underw (Life ed) 45:3+ D 12 '41

Warns insurance to modernize or face TNEC-type probe; abstracts. R. H. Blanchard. Nat Underw 46:19+ My 21 '42; Management R 31:285-7 Ag '42

See also

Banks and banking—Insurance requirements
Banks and banking—Insurance selling
Benefit societies
Chamber of commerce of the United States—Insurance department
Electric utilities—Insurance requirements
Insurance companies and other subjects beginning Insurance
Libraries—Insurance requirements
Railroads—Insurance requirements
Sewage disposal plants—Insurance requirements
War insurance corporation

Adjustment of claims

Case histories in loss adjustment; questions and answers. 51p 75c Am. management assn, New York '42

Claims and public relations; abstracts. A. Foster, jr. East Underw 43:28 Mr 20 '42; Nat Underw 46:23 Mr 26 '42

Defendant in damage suit cannot require insurers subrogated to plaintiff's rights be made parties plaintiff. Weekly Underw 147:154 Jl 18 '42

It begins with you; co-operation between agents and adjusters essential for good public relations. W. B. Todd. Ins Field (Fire ed) 71:16-18 Ag 13 '42

Loss adjusting plan arranged for WDC policies. Nat Underw 46:3-4 Ag 13 '42; Same cond. Management R 31:358-9 O '42

N.J. claim service bureau 16 years old. East Underw 42:33 N 14 '41

Policy ambiguity. H. S. Moser. Nat Underw (Life ed) 46:40 O 2 '42; Same. Nat Underw 46:18 O 8 '42

Procedure for dealing with nationals outlined. Nat Underw 46:5+ F 12 '42; Same. Nat Underw (Life ed) 46:8-9 F 27 '42

Rochester adjusters sue for return of license fees collected under Detective act. East Underw 42:22 D 26 '41

Sales value of the claim man. W. I. Baxter. East Underw 43:13 pt 2 My 15 '42

Specific policy liable where floater also covered same risk. East Underw 43:32 F 20 '42

Summarizes regulations on dealing with nationals. R. H. Matthias. Nat Underw 46:4 F 19 '42

Treasury dept. rules on blocked national payments. Ins Field (Fire ed) 71:11-12 Mr 5 '42; Nat Underw 46:6 Mr 5 '42

See also National association of independent insurance adjusters

Advertising

Commissioners will act against companies using misleading ads. Nat Underw 46:17 Ap 23 '42

Fisk creates award for insurance advertising. Weekly Underw 146:498-9 F 28 '42

Insurance advertising is keeping pace with wartime trends and tempo. W. L. Clapp. East Underw 43:9+ pt 2 My 15 '42

Miniature booklets of the Springfield group get wide distribution and do real selling job. il Ins Field (Fire ed) 71:22 Ja 29 '42; East Underw 43:26 F 13 '42

Motion picture films; why Aetna companies established their own producing unit. S. F. Withe. East Underw 42:29 D 5 '41

Now no time to curtail advertising. G. McMillan. East Underw 43:28 S 18 '42

Parker-Allston associates expands. East Underw 43:17 Ap '42

Seven principles for successful advertising copy. R. Manville. East Underw 43:21 S 18 '42

War-time problems discussed by Insurance advertising conference at spring meeting. Spectator (Property ed) 7:18+ Ap 2 '42; East Underw 43:31 Mr 27 '42; Weekly Underw 146:705+ Mr 28 '42

See also

Insurance, Life—Advertising
Insurance advertising conference
Insurance agents—Advertising
Insurance companies—Advertising

Air raid risks

Bombardment cover topic for discussion at Southern governors conference. Weekly Underw 146:173 Ja 17 '42

Government forms $100,000,000 war risk fund. Nat Underw 45:3+ D 18 '41

Government will handle all bomb damage insurance. East Underw 42:1+ D 19 '41

Pre-war comment on air raid insurance. P. H. Edwards. Nat Underw 45:23-4 D 25 '41

See also
Insurance, War risk

Bibliography

Digest of insurance literature; index of articles in current periodicals. Published in weekly numbers of Weekly underwriter

Insurance; abstracts. Published in monthly numbers of Management review

Insurance book reviews. Published quarterly by Mariana Thurber, librarian, Employers mutual liability insurance co, Wausau, Wis.

Biography

Some America Fore men in armed services of the United States. East Underw 43:19-20 F 6 '42

Collecting of premiums

See Insurance—Premiums, Payment of

Cost

Analysis of prepayment discounts; abstract. R. J. Myers. Nat Underw 45:21+ N 20 '41

Coverage

A.M.A. insurance group holds forum session, New York, May 27-28. East Underw 43:30 My 29 '42

Ask companies to cover gap in war protection. Nat Underw 46:1+ Je 18 '42; East Underw 43:1+ Jl 17 '42

How to buy insurance. J. E. Beahn. Credit & Fin Management 43:9-11 N '41; Abstracts. East Underw 42:32 N 21 '41; Management R 31:179-80 My '42

Insuring prefabricated houses under marine form. East Underw 43:27 Mr 20 '42

INSURANCE—Coverage—*Continued*

Makes survey of all needs affected by war conditions; broker finds angles insured would overlook. Nat Underw 46:19 O 8 '42

Many coverages talked about at A.M.A. buyers' forum. Nat Underw 45:5+ D 18 '41

New type of cover brought to light by Iowa ban; substitute for recording of chattel liens. Nat Underw 45:21+ N 20 '41

Please read your policy; few actually know their coverage. J. E. Beahn. Credit & Fin Management 44:13-14+ O '42

Protection given a drug store by each type of insurance. J. J. Shine. Bankers Mo 59:19-20 Ja '42

Protection given a shirt manufacturer by each type of insurance. W. V. Stegman. Bankers Mo 59:397 S '42

Review of insurance for borrowers; insurance needed for each of 46 industries. Bankers Mo 59:107-10 Mr '42

Underwriting problems resulting from war presented to companies; coverages of rent, leasehold, profits, and U. & O. for property not engaged in war production. W. B. Houseal. Ins Field (Fire ed) 71:8-9 Mr 5 '42

What is war damage gap? see danger in quibbling. Nat Underw 46:1+ Jl 23 '42

See also subdivision Insurance requirements under special subjects, e.g. Trusts and trustees—Insurance requirements

Credit aspects

Benefits of 1942 credit expansion. C. T. Hubbard. Weekly Underw 146:26+ Ja 3 '42

Credit in the insurance business. D. C. Campbell. Credit & Fin Management 43: 20-1 D '41

Credit men show keen grasp of insurance; discuss responsibility as advisers on coverage. W. J. Claussen and others. Nat Underw 46:2+ My 14 '42

Insurance agents to continue cooperation with credit men. Credit & Fin Management 44: 22+ O '42

Life insurance for credit protection. C. F. Gay. Credit & Fin Management 44:15+ O '42

Review of insurance for borrowers; insurance needed for each of 46 industries. Bankers Mo 59:107-10 Mr '42

See also
Insurance, Credit
National association of credit men

Directories

Insurance almanac. J. D. Hogshead, ed. 30th ed 1166p $3 Weekly underwriter, New York '42

Economic aspects

Mutual agents in New York war clinic consider inflation; address. L. H. Pink. Weekly Underw 147:912+ O 17 '42

Excess coverage

War boosts sales of excess coverage to self-insurers. Nat Underw 46:25 O 15 '42

Fraudulent statements

Litigation over trade guarantee cover reveals problems involved, LaFrance Industries and Pennsylvania Lumbermen's claims. Nat Underw 46:9 Ja 22 '42

See also
Insurance, Life—Fraudulent statements

Government policies

Bulletin on government risks; Joint committee says deviations must be submitted for approval. East Underw 43:35 Mr 13 '42

F.S.A. insurance causes stir in Iowa. Nat Underw (Life ed) 46:7 My 8 '42

Insurance personnel serving with FWA and USHA in Washington. East Underw 43:28 F 13 '42

No war damage insurance on property of the U.S. government. East Underw 43:20 Jl 17 '42

Trends in government ranks; abstracts. L. C. Hilgemann. East Underw 43:16 Ag 14 '42; Weekly Underw 147:318+ Ag 15 '42

Guaranty of policies

Favors guarantee funds; abstracts. J. J. Magrath. Weekly Underw 146:1201+ My 30 '42; Ins Field (Fire ed) 71:22-3 My 28 '42; Nat Underw 46:4+ My 28 '42

History

Benjamin Franklin's interests included insurance development. Spectator (Property ed) 8:8+ Jl 23 '42

Origin of insurance. L. G. Simon. Ins Field (Life ed) 70:16 N 21 '41

Outlines of a general economic history of insurance. A. Manes. bibliog J Business 15: 30-48 Ja '42; Same, without bibliog. Weekly Underw 146:1448-52; 147:248 Je 27, Ag 1 '42

Inspection reports

J. L. Hourigan starts third inspection co. East Underw 43:34 Ap 3 '42

International aspects

Eyes problem of assured cut off by war; abstracts. G. M. Selser. Nat Underw (Life ed) 46:4 My 8 '42; East Underw 43:15 My 1 '42

How commissioners view enemy alien assureds. Spectator (Property ed) 7:12-16 Mr 5; 10-14+ Ap 30 '42; Same. Spectator (Life ed) 148:6-9+ Mr 12; 6-9, 14-15 My 7 '42

Implores U.S. to act upon great international opportunity. A. Fougner. Nat Underw 45: 33+ D 25 '41

Insurance and Trading with the enemy; act of 1917, revived 1941. E. C. Stiefel. Weekly Underw 146:58-9+ Ja 3 '42

Procedure for dealing with nationals outlined. Nat Underw 46:5+ F 12 '42; Same. Nat Underw (Life ed) 46:8-9 F 27 '42

Summarizes regulations on dealing with nationals. R. H. Matthias. Nat Underw 46:4 F 19 '42

Terms of bill to save policies of isolated insured. Nat Underw (Life ed) 46:4 S 4 '42

Law

See Insurance law

Losses

Loss trends in days of war. J. R. Cashel. Nat Underw 46:4 Ap 23 '42

Upward loss trend in 1941. Nat Underw 46: 4+ Ja 29 '42

Mail order selling

Court of appeals decides for Pink; reverses lower court holding for Warner reciprocals. East Underw 43:26+ Je 12 '42

Pans mail order companies. R. Quillen. Nat Underw 46:30 F 19 '42

Reasons behind mail-order insurer's growth revealed. Nat Underw 46:20+ S 10 '42

Mathematics

Mathematics for actuarial students. H. Freeman. 2 pts. 184p; 340p pt 1 $2.75; pt2 $7.50 G. E. Stechert, New York '39

Moral hazard

Insurance and moral hazard. Economist 142: 866 Je 20 '42

Municipal policies

Toledo sues G. & R. to halt canceling policies on Lake Erie water supply project. Nat Underw 45:5 N 20 '41

Participating policies

Participating policies barred in New Orleans. Ins Field (Fire ed) 70:10 N 20 '41

Periodicals

Trade press advertising builds agent good will and new business; abstracts. J. A. Gernhardt. East Underw 42:29 D 5 '41; Weekly Underw 145:1406 D 20 '41

Policies

Descriptive titles eliminated by ruling of Kansas department. Weekly Underw 147: 783 O 3 '42

How war affects insurance coverages; abstract. Management R 31:62-4 F '42

INSURANCE—Policies—*Continued*

Insurance retains standard time. Nat Underw 46:10 F 5; 32 F 12 '42

Policy ambiguity. H. S. Moser. Nat Underw (Life ed) 46:40 O 2 '42; Same. Nat Underw 46:18 O 8 '42

Wants cut in paper hours; endorses shortened policy. A. Ryder. East Underw 43:36 F 20 '42

Policy assignment

Agreement to assign policy held not to be an actual assignment. East Underw 43:27 O 23 '42

Policy dividends

Dividends of mutual fire and casualty companies; report of committee at meeting of commissioners. Nat Underw 45:18-19 D 11 '41; Excerpts. East Underw 42:87 D 12 '41

See also
Insurance—Participating policies

Policy holders

Assessment of nonresident policyholders; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-8 Ja 8; 30-1 My 28 '42

Eye Japanese risks on Coast. Nat Underw 46:4 F 12 '42

How commissioners view enemy alien assureds. Spectator (Property ed) 7:12-16 Mr 5; 10-14+ Ap 30 '42; Same. Spectator (Life ed) 148:6-9+ Mr 12; 6-9, 14-15 My 7 '42

Insurance and Trading with the enemy; act of 1917, revived 1941. E. C. Stiefel. Weekly Underw 146:58-9+ Ja 3 '42

Policy liens

Tax interpretation vital to companies; Revenue Commissioner clears question over liens and claims. G. J. Helvering. Nat Underw 46:5+ Ja 1 '42; Same. Nat Underw (Life ed) 46:3-4 Ja 2 '42

Pools

Syndicate safari; specialized central offices boost agents' earnings. J. Chamberlain. il Spectator (Property ed) 7:12-16 Mr 19 '42

Premiums, Payment of

Agent urged to watch credits. Nat Underw 46:21+ Ap 9 '42

Analysis of prepayment discounts; abstract. R. J. Myers. Nat Underw 45:21+ N 20 '41

Annual balance problem is unnecessary, unproductive. Nat Underw 45:6+ D 25 '41

Premiums, Recovery of

See also
Insurance, Marine—Premiums, Recovery of

Preventive work

Conservation bureau's war time activities. J. J. Hall. East Underw 43:37-8 Mr 27 '42

Discuss raid plant protection; executives and engineers of insurance carriers meet with officials in New York. Weekly Underw 146:369+ F 14 '42; Same abr. East Underw 43:19 F 13 '42; Same abr. Nat Underw 46:9 F 12 '42

Insurance does vital government service in war. Nat Underw 45:3+ D 18 '41

Insurance doing great wartime job. Weekly Underw 146:989+ My 2 '42

Insuring your business; by-product of insurance is unique prevention service worth millions. F. C. Crowell, jr. Barron's 22:8 O 26 '42

Plant protection work explained to insurance inspectors, engineers at Washington, D.C. East Underw 43:22 F 20 '42

Plant protection work of insurers clarified. Nat Underw 46:6 Ja 15 '42

So you have to make a speech; a talk to business men. J. W. Mundus. Ins Field (Fire ed) 71:16-17+ My 14 '42

Travelers sets up blackout and air raid service. Nat Underw 45:19 D 18 '41

Vigilance required to defeat sabotage. R. Murphy. Weekly Underw 146:1224+ My 30 '42

Prospects

Bird's-eye view of a community will help to write more business. R. F. Moore. East Underw 43:21 Jl 17 '42

New premium spots are created by the war activities; abstracts. H. I. Callis. Nat Underw 46:2+ Ag 27 '42; Weekly Underw 147:447+ Ag 29 '42

Through both ends of the telescope—production opportunities of brokers and agents. A. W. Spaulding. Weekly Underw 147:976-7+ O 24 '42; Abstract. East Underw 43:31+ O 23 '42

Today's broker's market. P. T. Campbell. East Underw 43:20 N 6 '42

Too many prospects are overlooked. R. E. Brown. Nat Underw 45:20-1 N 13 '41

Purchasing

American management association insurance conferences; problems of hypothetical Mythical manufacturing company. Nat Underw 46:4+ My 28 '42; East Underw 43:30 My 29 '42; Ins Field (Fire ed) 71:10-11+ Je 4 '42

Buyer tells his problems at U.S. Chamber session. R. Fleming. Nat Underw 46:21+ Ap 30 '42

Determining values today; abstracts. W. J. Welsh. Ins Field (Fire ed) 70:20-1+ D 4 '41; Nat Underw 45:5+ D 4 '41

How to buy insurance. J. E. Beahn. Credit & Fin Management 43:9-11 N '41; Abstracts. East Underw 42:32 N 21 '41; Management R 31:179-80 My '42

Insuring your business. F. C. Crowell, jr. Barron's 22:3 Ag 17; 7 Ag 24; 9 Ag 31; 13+ S 14; 20 S 28; 8 O 5; 7 O 12; 9 O 19; 8 O 26 '42

Rates

Agree to comply with Texas expense stabilization plan. Nat Underw 46:4+ Je 25 '42

Backs purposes of rate regulation. L. H. Pink. East Underw 43:38+ Mr 13 '42

Calls for action on interstate rating; abstracts. L. H. Pink. East Underw 43:22+ Je 12 '42; Nat Underw 46:20, 33; Discussion. 26 Je 11 '42; Correction. 46:3+ Je 18 '42

Canadian war risk rates announced. East Underw 43:16 S 4 '42; Nat Underw 46:6 S 3 '42

Extension of rate regulation idea opposed at Commissioners' meeting. East Underw 42:83 D 12 '41

If I were an agent. E. W. Sawyer. Weekly Underw 145:1082+ N 8 '41; Abstract. East Underw 42:39+ N 7 '41

Interstate rate cutting big topic for commissioners. Nat Underw 45:25+ N 13 '41

Interstate rating group named. Nat Underw 46:17 Jl 16 '42

Put squeeze on expense elements; Texas requires insurers' affidavit on commissions. Nat Underw 46:2+ Je 4 '42

Reinsurance

Constitution and Eagle separate. Nat Underw 46:19 My 28 '42

Court of appeals draws thin line in reinsurance issue. Nat Underw 46:13 Ja 22 '42

Dearborn National will continue to operate as independent unit. East Underw 43:27 S 4 '42

European reinsurance conditions. H. E. Feer. Weekly Underw 146:990+ My 2 '42

Full fledged reinsurance course; abstract of six lectures. J. A. Cathcart, jr. Nat Underw 45:34, 40-2 D 25 '41

New York ruling; credit for reinsurance from unlicensed insurers. Weekly Underw 147:549 S 12 '42

Reinsurance; a preliminary treatise and a digest on some aspects of the law and practice of reinsurance and excess insurance. K. R. Thompson. 275p $4 Commerce clearing house '42

INSURANCE—Reinsurance—*Continued*

Reinsurance from lawyers' standpoint. W. B. Wise. Nat Underw 45:36-7 D 25 '41; Abstracts. East Underw 42:25 Ag 1 '41; Weekly Underw 145:209-10+ Ag 2 '41

Reinsurance, its practice and principles; review. E. M. Sturhahn. Nat Underw 45:33+ D 25 '41

Reinsurance section. Nat Underw 45:31-44 D 25 '41

To liquidate Pilot Reinsurance. Nat Underw 46:3 F 5 '42; East Underw 43:26 F 6 '42

Triple anniversary of Sterling offices, ltd. East Underw 43:17+ Jl 24 '42

Unauthorized reinsurance tax. Nat Underw 46:1 N 5 '42

Value of reinsurance to insurance business and the public. R. M. Staker. Weekly Underw 147:234 Ag 1 '42

World reinsurance conditions of 1940-41 reviewed in England. East Underw 43:22 Ja 23 '42

See also
Insurance—Pools
also American mutual reinsurance company

Renewal certificates

Explains N.J. law; renewal certificates permissible; abstracts. L. A. Watson. East Underw 43:34 Mr 6 '42; Nat Underw 46:16 Mr 5 '42

Fireman's fund uses renewal slip. Nat Underw 46:19 My 7 '42

Many states now approve renewal by certificate. Nat Underw 46:20 Mr 5 '42

Minnesota o.k.'s renewal riders. Nat Underw 46:35 F 5 '42

Movement grows for use of renewal certificates. Nat Underw 46:3 F 12 '42

Renewal certificate plan hinges on paper situation. Nat Underw 46:20 Ja 29 '42

Revives renewal certificate idea; Standard Accident plan. Nat Underw 46:17 Ja 22 '42

Simplification of renewal procedure is live subject. Nat Underw 46:5+ F 19 '42

See also
Insurance, Automobile—Renewal certificates
Insurance, Casualty—Renewal certificates
Insurance, Fire—Renewal certificates

Risks

Catastrophe underwriting and war risk. J. J. Magrath. Weekly Underw 146:20+ Ja 3 '42

Egg drying plants increase; need underwriting. Nat Underw 46:4 Jl 2 '42

More soy bean oil plants; hazards are analyzed. M. E. Bulske. Nat Underw 46:6 Ap 9 '42

Primary causes of loss. P. D. Betterley. Weekly Underw 146:782-5 Ap 4 '42

See also
Insurance, War risk

Self-insurance

REA leaders move to form own insurer. Nat Underw 46:4 S 24 '42

U.S. Steel places $1,000,000,000 line with stock carriers; alters self-insurance plan. East Underw 43:1+ Mr 13 '42

War boosts sales of excess coverage to self-insurers. Nat Underw 46:25 O 15 '42

State policies

N.Y. state big war damage buyer. Nat Underw 46:16A O 1 '42; East Underw 43:40 S 25 '42

Pink reprimands Pearl for Montana deal in 1936. Nat Underw 46:6 Ja 1 '42

Study and teaching

Adopts single unified plan; American institute for property and liability underwriters educational curriculum. S. S. Huebner. East Underw 43:29 Mr 6 '42; Same. Nat Underw 46:10+ Mr 5 '42

Agents' work for education. G. W. Scott. Ins Field (Chicago Conv Daily ed) 71:8 S 23 '42

American institute, property, liability underwriters starts. East Underw 43:1+ Ja 2 '42

Blue prints for property insurance college. Nat Underw 46:3+ Ja 1 '42

Course in insurance by correspondence; Pennsylvania State College instruction. East Underw 43:25 Jl 24 '42

Education grips insurance fraternity. H. F. Hansen. Weekly Underw 146:79-81+ Ja 3 '42

Educational forum shows progress made this year; Am. college property and liability underwriters. Nat Underw 46:22+ S 24 '42

Educational program of N.A.I.A. completed. G. W. Scott. Nat Underw 46:5+ Ap 16 '42; Same abr. East Underw 43:36 Ap 17 '42

Herbert J. Pohs opens insurance institute for brokers. East Underw 43:22 Ja 9 '42

How British education is carried on under war conditions. W. P. Elderton. East Underw 43:18 Ag 28 '42

Insurance institute selects mail courses. East Underw 43:22 Jl 31 '42

Keep 'em trained; Aetna's casualty and surety sales course in Hartford does a real job. il Ins Field (Fire ed) 71:16-18 Jl 16 '42

License requirements; educational courses for applicants might help raise standards; abstracts. E. E. Agger. East Underw 43:14+ S 18 '42; Ins Field (Fire ed) 71:22-5 S 24 '42

Need of insurance education rooted in economic changes. W. Fetzer, jr. Nat Underw 46:22 Ja 29 '42

New courses given at Indiana school. J. C. O'Connor. Nat Underw 46:2 My 21 '42

N.Y. insurance society announces new courses. East Underw 43:24+ S 11 '42

Proceedings of the ninth annual meeting, New York, Dec. 29-30, 1941. 94p Am. assn. of univ. teachers of insurance, C. A. Kline, sec, box 48, Logan Hall, Univ. of Pennsylvania, Philadelphia '42

Professional status. S. S. Huebner. East Underw 43:16 O 16 '42

Reading list for C.P.C.U. examinations issued by American institute. Nat Underw 46:6 S 10 '42

Standards set by American institute for property and casualty underwriters; abstracts. H. J. Loman. Ins Field (Chicago Conv Daily ed) 71:13 S 23 '42; Nat Underw 46:22+ S 24 '42

Stresses Institute standards before N.J. agents. H. J. Loman. East Underw 43:15 S 18 '42

Sun shines bright; optimistic view of the future of insurance. S. S. Huebner. Ins Field (Fire ed) 71:20-1, 23-4 Ap 30 '42

Survey of our position in the property insurance business. C. G. Hale. Spectator (Property ed) 7:8-12, 24+ Ja 8 '42

Urges state units to push course; educational program of N.A.I.A. L. P. McCord. Ins Field (Chicago Conv Daily ed) 71:5 S 24 '42

Will trained agents write the business? R. A. Stevenson. Ins Field (Fire ed) 71:16-17+ Ja 8 '42

Women; educational program of the N.A.I.W. A. V. Doyle. Ins Field (Fire ed) 71:27 Ag 6; 20-1 Ag 13 '42

See also
American association of university teachers of insurance
American institute for property and liability underwriters
Insurance agents—Training
Insurance society of New York

Unearned premium policies

Unearned premium insurance and how it can be sold. F. C. Crowell, jr. Ins Field (Fire ed) 71:18-19 Ja 1 '42

Volunteer war workers coverage

Insurance men to study defense corps coverage. East Underw 43:23 Ag 28 '42

See also Insurance, Liability—Volunteer war workers coverage

INSURANCE—*Continued*

War problems

Impact of war on insurance; and an appraisal of the future; abstracts. E. W. Sawyer. Ins Field (Fire ed) 71:18-19+ Ag 27 '42; Nat Underw 46:15+ Ag 27 '42

Prepare for mobilization day, agents advised. L. H. Jones. Nat Underw 46:3+ O 15 '42

War risks

See Insurance, War risk

Argentina

Argentina insurance situation. W. Hay. Weekly Underw 146:1443-4+ Je 27 '42

Australia

Australian war insurance plan being started. Spectator (Property ed) 7:36 Mr 19 '42

Australian war insurance regulations. East Underw 43:34 Ap 17 '42

Canada

Annual report shows increased insurance in Canada. G. D. Finlayson. East Underw 43:34 Ap 10 '42

Canada war coverage widely purchased by small risk owners. East Underw 43:1+ O 2 '42

Canadian results, 1941. Weekly Underw 146:585+ Mr 14 '42

Canadian war damage set-up announced. Weekly Underw 147:399+ Ag 22 '42

Canadian war risk rates announced. East Underw 43:16 S 4 '42; Nat Underw 46:6 S 3 '42

Insurance people to aid war risk work in Canada. Nat Underw 46:4 Ap 9 '42; Same. East Underw 43:18 Ap 10 '42

Underwriting, commission and loss details of Canadian war coverage. East Underw 43:19 S 11 '42; Nat Underw 46:2+ S 10 '42

War damage; rates, underwriting rules. J. Matson. East Underw 43:27 O 16 '42

Chicago

See also
Chicago board of underwriters

China

How the British and American companies were liquidated when the Japs took over Shanghai; abstracts. P. M. Anderson. Ins Field (Fire ed) 71:8-9 O 29 '42; Nat Underw 46:21 O 29 '42

Europe

European reinsurance conditions. H. E. Feer. Weekly Underw 146:990+ My 2 '42

German control of insurance in Europe is shown. Nat Underw (Life ed) 46:18 Ag 21 '42; Nat Underw 46:4 S 10 '42

Far East

Far East business carries on; American fire companies concerned for staffs but see little immediate loss. R. Rhodes. Weekly Underw 145:1321+ D 13 '41

France

New insurance decree for occupied France. East Underw 43:21 Jl 3 '42

U.S. companies under trusteeship in France. Weekly Underw 147:1019 O 31 '42

Germany

Condition of German insurance business. Weekly Underw 145:1269+ D 6 '41

Insurance survey. Economist 142:151 Ja 31 '42

Great Britain

British government guarantees colonial war risk insurance funds. Weekly Underw 145:1138 N 15 '41

British insurance looks ahead. Economist 142:435-6 Mr 28 '42

British war damage amendment extends risk period indefinitely. East Underw 43:22 Je 19 '42

British war damage claims were over 593,000 to Sept. 1. A. M. T. Eve. East Underw 43:1+ O 16 '42

Competition in insurance. Economist 142:76-7 Ja 17 '42

How British government is meeting war insurance problems. J. G. Foster. East Underw 42:60+ D 12; 30 D 19 '41

Insurance; a wartime industry. Economist 143:146-7 Ag 1 '42

Insurance and the World war. A. E. Morgan. East Underw 43:19-20 Ap 10; 21+ Ap 17 '42

Insurance in Great Britain doing a "front-line" job. W. Hill. il Spectator (Property ed) 8:10-15+ O 15 '42

Observations as to war's effect on British insurance results. F. S. Perryman. East Underw 43:30 Ja 2 '42

War and insurance in Britain. J. D. Dorsett. Ins Field (Fire ed) 71:18-19+ Ap 2 '42

War damage. Economist 142:760 My 30 '42

War will bring permanent changes in insurance. A. E. Morgan. East Underw 42:18 D 5 '41

See also
Insurance companies
—Great Britain

Hawaiian Islands

Few claims from Hawaii reported. Nat Underw 46:9 Ja 1 '42

Premiums in Hawaii at new top in 1940. East Underw 42:16 D 26 '41

India

Compulsory war-risk insurance of factories; government of India ordinance. For Comm W 7:18 Je 6 '42

Indian war risks (goods) insurance ordinance. Weekly Underw 145:1450 D 27 '41

Latin America

A.F.I.A. in South America since 1919. L. H. Doman. East Underw 42:69+ D 12 '41

Louisiana

New laws affecting Louisiana insurance. Weekly Underw 147:264+ Ag 8 '42

Massachusetts

War Damage officer calls federal agency outside state rules; Massachusetts policies held as binding contracts. East Underw 43:1+ Ag 7 '42

Mexico

Differences between Mexican and U.S. insurance procedures. K. S. Dargan. Ins Field (Fire ed) 71:8 O 8 '42

Influx of American capital into Mexico brings need for United States insurance. Weekly Underw 147:66 Jl 11 '42

Insurance conditions in Mexico. V. R. Willemson. East Underw 43:29 N 6 '42

Mexican government in insurance business. Ins Field (Life ed) 71:8 Je 19 '42

Rich field now opening in Mexico for United States insurance companies. Weekly Underw 146:647 Mr 21 '42

Missouri

Educational program by Supt. E. L. Scheufler. Weekly Underw 147:301 Ag 8 '42

New York (state)

Pink's report to Legislature covers many topics. Nat Underw 46:21-2 F 5 '42

Submits complete preliminary report to legislature; abstracts. L. H. Pink. Weekly Underw 146:606+ Mr 14 '42; Comm & Fin Chr 155:1152 Mr 19 '42; Nat Underw (Life ed) 46:1+ Mr 13 '42

See also
Insurance law—
New York (state)

Norway

Insurance-premium payments and company assets, 1940. For Comm W 7:18 My 2 '42

Philippine Islands

Manila offices bombed; American foreign insurance association headquarters. East Underw 43:18 Ja 9 '42

INSURANCE—*Continued*

Southern states

Year most active in southern experience. M. R. McGruder. Weekly Underw 146:34-7 Ja 3 '42

United States

Clear thinking is needed in insurance in parlous times. C. H. Smith. Nat Underw 46:2+ Ap 23 '42

Cooperative program for private insurers and government is asked; abstracts. J. W. Ryan. East Underw 43:1+ My 22 '42; Weekly Underw 146:1149+ My 23 '42

Coordination board sets up War division. Weekly Underw 146:522+ Mr 7 '42

Every branch of the insurance industry pledges all-out support of war effort; statements by organization heads. Ins Field (Fire ed) 70:5-6+ D 11 '41

How Trading with the enemy act in first World war related to insurance. H. W. Nichols. East Underw 42:96+ D 12 '41

Impact of war on insurance; and an appraisal of the future; abstracts. E. W. Sawyer. Ins Field (Fire ed) 71:18-19+ Ag 27 '42; Nat Underw 46:15+ Ag 27 '42

Insurance activities in Washington cover many offices. J. C. O'Connor. Nat Underw 45:15+ D 4 '41

Last quarter of year important. F. L. Brokaw. Weekly Underw 147:358 Ag 22 '42

New menace to insurance. W. C. Betts. Comm & Fin Chr 156:1714-15 N 12 '42

Predicts post war insurance changes. J. L. Train. Weekly Underw 147:909+ O 17 '42; Abstract. East Underw 43:29+ O 16 '42

Roundup of war and its impact on insurance. Nat Underw 45:3+ D 18 '41

Scan problems of mountain field. F. W. Bland. Nat Underw 46:4+ Ap 9 '42

Survey of our position in the property insurance business. C. G. Hale. Spectator (Property ed) 7:8-12, 24+ Ja 8 '42

Talks before Virginia association on government in business, RFC and WDC. W. H. Bennett. East Underw 43:22 Je 5 '42

Tomorrow. E. M. Allen. Ins Field (Chicago Conv Daily ed) 71:11 S 24 '42

Underwriters face many problems as year closes. East Underw 42:1+ D 26 '41

INSURANCE, Accident

Accident and health insurance in demand; big opportunities for life underwriters. W. T. Hammer. Weekly Underw 146:52-6 sec 2 My 9 '42

Accident and health insurance today; some problems the business must solve. W. G. Alpaugh. Weekly Underw 147:84-5+ Jl 11 '42; Abstract. East Underw 43:27+ Jl 3 '42

Accident and health week observance is widespread. Nat Underw 46:21+ Mr 26 '42

Accident men to build Insurance economics society. Weekly Underw 147:165 Jl 25 '42

Accident quiz. Weekly Underw 145:1198-9 N 22 '41

Chicago A. & H. rally blends patriotism, sales hints. Nat Underw 46:20+ Ap 2 '42

Connecticut General enters field of nonoccupational. Nat Underw 46:21 My 7 '42; Same. Nat Underw (Life ed) 46:17-18 My 8 '42

Connecticut General's accident department is 30 years old. East Underw 43:40 Ap 17 '42

Economics of accident and health insurance. S. S. Huebner. East Underw 43:34 Mr 27 '42

Federal measure threatens private A. & H. business. D. Porter. Ins Field (Fire ed) 71:8-9+ S 24 '42; Same. Ins Field (Life ed) 71:6+ S 25 '42

Franchise merchandising convenient way to wholesale A. & H. lines. P. G. Korn. East Underw 43:31+ Ag 14 '42

Keynote of A. & H. week. C. N. Green. East Underw 43:30 Mr 20 '42

Low cost protection for workers urged. W. T. Hammer. East Underw 43:32 Jl 3 '42

National A. & H. week; highlights of observance in important cities. East Underw 43:32+ Ap 3 '42

Non-occupational insurance need enhanced by 1941 off-the-job accident toll. East Underw 43:27 S 11 '42

Pink wants more power in limited A. & H. field. Nat Underw (Life ed) 46:1+ Mr 13 '42; Same. Nat Underw 46:27 Mr 12 '42

Pointers on necessary waivers. L. M. Kuh. East Underw 43:26 O 30 '42

Public attitude toward A. & H. found favorable. Nat Underw 46:20 Jl 2 '42; Same. Nat Underw (Life ed) 46:17-18 Jl 3 '42

Results of poll of public opinion of A. & H. service. F. M. Walters. East Underw 43:30 Jl 3 '42

True and false quiz that intrigued agents. Weekly Underw 145:1242-3 N 29 '41

War's effect on A. & H. J. M. Smith. East Underw 43:35-6 F 20 '42

Wartime value of A. & H. insurance. W. F. White. East Underw 43:34 Je 12 '42

Will the government sell A. & H.? up to today's salesmen. F. G. Packwood. Ins Field (Fire ed) 71:20-1+ O 22 '42; Abstract. Nat Underw 46:24 O 15 '42

See also

Insurance, Automobile

Insurance, Casualty

Insurance, Disability

Insurance, Hospitalization

Insurance, Liability

Insurance, Life—Disability provisions

Insurance, Workmen's compensation

also Bureau of personal accident and health underwriters; Health and accident underwriters conference; National association of accident and health underwriters

Adjustment of claims

Advice on handling of disability claims. H. S. Don Carlos. Weekly Underw 147:568 S 12 '42

Eyewitness clause of accident certificate does not require that actual shooting be seen. Weekly Underw 146:1477 Je 27 '42

Lack of knowledge excuses compliance with requirement that notice of intended cremation be given insurer. F. S. Knight. Weekly Underw 146:1373 Je 13 '42

Much interest in Iowa decision; no notice of forfeiture given; policy held to be in effect at time of injury. Nat Underw 45:27 D 11 '41

Results of study of A. & H. claim complaints. Nat Underw 46:21 Je 11 '42; Same. Nat Underw (Life ed) 46:7 Je 12 '42

True meaning of standard provision no. 20 in accident and health policies. J. W. Marer. Weekly Underw 147:928-9 O 17 '42

Agents

Accident and health and war. H. Van Cleve and W. G. Gastil. East Underw 43:36 Ap 3 '42

A. & H. sales real contribution toward winning the war. W. G. Gastil. Nat Underw 46:21 O 29 '42

Accident insurance should be fitted to prospect's needs. J. H. Garneau. Nat Underw 46:27 Ja 22 '42

Accident solicitors are independent contractors and not under unemployment act. Weekly Underw 146:721 Mr 28 '42; Nat Underw 46:31 Mr 26 '42

Agent with check cements disabled client to him; abstracts. C. E. Dalrymple. Nat Underw 46:12 O 29 '42; East Underw 43:8 O 30 '42

Competition in accident and health. F. E. Mueller, jr. Ins Field (Fire ed) 71:18-19 Jl 2 '42; Same. Ins Field (Life ed) 71:14+ Jl 3 '42

Conserving A & H business. E. H. O'Connor. Ins Field (Fire ed) 71:18-19+ F 26 '42

Effect of war on agency force; abstracts. H. R. Gordon. East Underw 42:40+ N 7 '41; Nat Underw 45:19+ N 6 '41

How to sell accident insurance. S. R. Cockrill. Ins Field (Fire ed) 71:24-5+ Je 4 '42; Same. Ins Field (Life ed) 71:16-17 Je 12 '42

Inflation prevention stressed; more A. & H. prospects. E. J. Faulkner. East Underw 43:34 Mr 27 '42

Insurance against failure. C. F. Lundquist. Ins Field (Fire ed) 71:20-1 F 5 '42; Same. Ins Field (Life ed) 71:18-19 F 6 '42

INSURANCE, Accident—Agents—*Continued*

Insurer wins important N.Y. case on status of agent. Nat Underw (Life ed) 46:9 Jl 24 '42

Meeting objections. R. J. Costigan. East Underw 43:32 Jl 10 '42

Organize round table of accident producers. Weekly Underw 145:1238 N 29 '41

Pattern for production; steps in accident-health sale taken up at National association congress. Nat Underw 46:21+ Ja 29 '42

Philosophy of A. & H.; sell the recognition of problems of disability. G. L. Dyer, jr. Ins Field (Life ed) 70:14+ N 28 '41

Production stimulated by Accident week; week's significance. C. E. Dalrymple. Weekly Underw 146:705+ Mr 28 '42

War is helpful to A. & H.; Insurance Field's survey. F. C. Crowell, jr. Ins Field (Fire ed) 71:22-7 Mr 12 '42; Same. Ins Field (Life ed) 71:16-21 Mr 13 '42

Agency management

New problems facing agency men; agency management session, Health and accident underwriters conference. Nat Underw (H. & A. conference no) 46:5+ My 29 '42; East Underw 43:36+ My 29 '42

Workable plan to cut overhead on accident and health business. M. L. Lane. East Underw 43:35+ Ag 14 '42

Sales conventions

Pittsburgh accident and health sales congress. East Underw 43:31+ Mr 20 '42; Nat Underw 46:23+ Mr 19 '42

Selection

Must keep up recruiting though times are trying. H. C. Carden. Nat Underw (H. & A. conference no) 46:5+ My 29 '42

Training

Four point program in agency training technique. A. W. Crowell. East Underw 43:33 pt 2 My 15 '42

Graduates of accident association's educational course to get distinctive scroll. Weekly Underw 146:78 Ja 3 '42; Nat Underw 46:18 Ja 1 '42

Aviation risks

Assured traveling on pass held not fare paying passenger within coverage of accident policy. Weekly Underw 147:1106 N 7 '42

Double indemnity provisions

Talk on double indemnity before A. & H. round table. R. J. Wetterlund. East Underw 43:27-8 Ag 28 '42

Family group policies

Great Northern Life has family group expense plan. Nat Underw (Life ed) 46:24 Ja 16 '42

Sins of omission in cheap policies cited; abstracts. P. F. Jones. East Underw 43:12+ O 30 '42; Nat Underw 46:19+ O 29 '42; Nat Underw (Life ed) 46:3+ O 30 '42

Finance

Accident and health insurance in 1941 by states; hospitalization plans included; tabulation. Spectator (Life ed) 149:25 pt 2 S '42; Same. Spectator (Property ed) 8:29 S 17 '42

Accident & health results for 1941 compared with those in 1940; tabulation. East Underw 43:31 F 27 '42

Fraudulent claims

Fake accident ring leaders sentenced in Missouri. Weekly Underw 146:1407 Je 20 '42

Fake claim rings in Louisville and Birmingham destroyed. Nat Underw 46:26 Ja 22 '42

Inspection reports

Inspection reports used in auditing claims. F. E. Walker. Spectator (Life ed) 148:25 F 12 '42

Policies

Aetna offers non-occupational policies. Nat Underw 46:24 Ap 30 '42; Same. Nat Underw (Life ed) 46:23-4 My 1 '42

Allstate brings out $10 auto accident policy. Nat Underw 46:33 My 21 '42

Analyzes A. & H. reform on tenth anniversary of program. C. A. Kulp. East Underw 43:32 Ap 10 '42

Automobile accident. Spectator (Property ed) 7:28 Mr 19 '42; Correction. 7:27 Ap 2 '42

Metropolitan A. & H. forms revised; two new policies. Nat Underw 46:67 S 24 '42; Same. Nat Underw (Life ed) 46:20 S 25 '42

Metropolitan issues new A. & H. policy forms. East Underw 43:34 O 23 '42

National Casualty has new liberal contract. Nat Underw 46:27 Mr 26 '42

New Pacific Mutual form for lower income group. Nat Underw 45:20 D 25 '41

Soldiers' concession continued for year. Nat Underw 45:28 D 11 '41

Total and partial disability. H. S. Don Carlos. East Underw 43:27-8 Ag 28 '42

United States Life has new combination policy. Nat Underw 46:15 Jl 23 '42

Victory A. & H. form is issued by Continental. Nat Underw 46:20+ Jl 16 '42

Policy dividends

Dividends paid on group policies discussed by Insurance commissioners. Nat Underw (Life ed) 45:8+ D 12 '41

Pools

Civilian war injury policy pool plan of operation. East Underw 43:26 Ag 7 '42; Nat Underw 46:13+ Ag 6 '42

Pool for civilian war injury policy oversubscribed. Nat Underw 46:13 Jl 23 '42

Premiums, Payment of

Workable plan to cut overhead on accident and health business. M. L. Lane. East Underw 43:35+ Ag 14 '42

Premiums, Recovery of

Oklahoma requires pro rata refund rider on all policies of service men. Nat Underw 46:29 Ap 9 '42

True meaning of standard provision no. 20 in accident and health policies. J. W. Marer. Weekly Underw 147:928-9 O 17 '42

Preventive work

Safety factor in floor waxes; a review of testing procedure developed by insurance companies for determination of slip hazards. diag Soap & San Chem 18:95-6+ Ap '42

Seventh column exposed; insurance company has turned its advertising to prevention of accidents. il Ptr Ink 200:48-9 Ag 7 '42

Prospects

Meet "no business" talk now. G. Robson. Nat Underw 46:21 F 12 '42; Same. Nat Underw (Life ed) 46:6 F 13 '42

Plan to reach war workers. F. G. Packwood. East Underw 43:33 O 16 '42

See also Insurance, Accident—Women as prospects

Reinsurance

Business men's assurance takes over accident and health cover of American Savings Life. Weekly Underw 146:1224 My 30 '42

Risks

Field widened greatly by age limit extensions; abstracts. F. M. Walters. Nat Underw (H. & A. conference no) 46:5+ My 29 '42; East Underw 43:46 My 29 '42

Importance of careful selection. C. N. Green. Nat Underw 45:21 N 6 '41

Social aspects

A. & H. insurance helps to defend the home. J. M. Powell. East Underw 43:35 Ja 30 '42

Accident-health defends American home, business. W. F. White. Nat Underw 46:19+ Ja 29 '42

Wartime petition for A. & H. R. W. Babson. East Underw 43:33 Ja 23 '42

INSURANCE, Accident—*Continued*

Statistics

Conrod's A.&H. insurance survey shows 25,000,000 policies in force. East Underw 43:32+ O 2 '42; Same. Ins Field (Fire ed) 71:8-9 O 15; 10-11 O 30 '42; Same abr. Nat Underw 46:19 O 1 '42

Study and teaching

Accident and health club sponsors short, intensive course. East Underw 43:30 S 4 '42

Chicago accident and health association sponsors educational course. Weekly Underw 147:750 S 26 '42

War problems

A. & H. leaders view war problems courageously; analyze 1942 problems. W. L. Clapp. East Underw 43:28-9+ Ag 14 '42

Accident-health war problems up. Nat Underw 46:19+ Ja 29 '42

Problems faced by A. & H. business due to the war; abstracts. J. M. Powell. East Underw 43:38+ My 29 '42; Nat Underw (H. & A. conference no) 46:4+ My 29 '42

Prospecting, personnel, underwriting in light of changed conditions; abstracts. F. S. Vanderbrouk. East Underw 43:33 Je 19 '42; Weekly Underw 146:1458 Je 27 '42

War risks

A. & H. companies indicate their positions on war damage claims. W. L. Clapp. East Underw 43:30-1 F 27 '42

A. & H. war clauses. F. S. Vanderbrouk. East Underw 43:11 Mr 27 '42

Accident-health war problems up. Nat Underw 46:19+ Ja 29 '42

Bureau takes negative stand on war cover; favors WDC setup. Nat Underw 46:18 Ag 27 '42

Civilian cover; James R. Garrett, inc. announces policy of National Casualty for general public. Weekly Underw 147:183 Jl 25 '42

Civilian war injury. Spectator (Property ed) 8:27 Jl 9 '42

Civilian war injury policy completes the sales picture. J. W. Scherr, jr. East Underw 43:33 Ag 14 '42

Civilian war injury policy on sale August 10. Weekly Underw 147:231 Ag 1 '42

Civilian war injury policy pool plan of operation. East Underw 43:26 Ag 7 '42; Nat Underw 46:13+ Ag 6 '42

Civilian war policy on market August 1. East Underw 43:32 Je 26 '42; Weekly Underw 146:1463 Je 27 '42

English experience shows war clause needed in U.S.; abstracts. W. F. White. Nat Underw (H. & A. conference no) 46:4+ My 29 '42; East Underw 43:47 My 29 '42

Eye effect of war on accident cover. Nat Underw 45:17-18 D 25 '41; Same. Nat Underw (Life ed) 45:3+ D 26 '41

Initial response to war injury policy. H. R. Gordon. East Underw 43:48 S 25 '42

Plan pool for war accident coverage. Nat Underw 46:15 Ap 23 '42

Pool for civilian war injury policy oversubscribed. Nat Underw 46:13 Jl 23 '42

Predicts wide acceptance by public of civilian war injury policy. H. R. Gordon. East Underw 43:26 Jl 31 '42

Seek definition of act of war. Nat Underw 46:13 Ja 1 '42; Same. Nat Underw (Life ed) 46:1 Ja 2 '42

Set up depository for A. & H. war pool. Nat Underw 46:19 Jl 16 '42; Same. Nat Underw (Life ed) 46:18 Jl 17 '42; Same. East Underw 43:25 Jl 17 '42

Standard Accident issues civilian war accident coverage but not as member of pool. East Underw 43:25 Ag 7 '42; Weekly Underw 147:232 Ag 1 '42

Status of military service and war clauses; abstracts. J. Panchuk. Nat Underw (H. & A. conference no) 46:6 My 29 '42; East Underw 43:37+ My 29 '42

Will write war risk through pool; H. & A. conference approves proposal for special policy. F. A. Post. Nat Underw (H. & A. conference no) 46:3+ My 29 '42

Women as prospects

Views women workers as vast potential market for A. & H. E. H. O'Connor. East Underw 43:29 Jl 3 '42

Women workers of today need income protection; abstracts. E. H. O'Connor. Nat Underw (H. & A. conference no) 46:5+ My 29 '42; East Underw 43:36+ My 29 '42; Weekly Underw 146:1229 My 30 '42

Great Britain

English experience shows war clause needed in U.S.; abstracts. W. F. White. Nat Underw (H. & A. conference no) 46:4+ My 29 '42; East Underw 43:47 My 29 '42

INSURANCE, Accounts receivable

Accounts receivable insurance and how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:22 Ap 30 '42

War risk coverage of accounts receivable; abstract. A. P. Lange. Management R 31:250-1 Jl '42

INSURANCE, Additional living expense

Additional living expense insurance and how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:18-19 Ja 8 '42

INSURANCE, Advertisers' liability

Advertisers' liability insurance; abstract. Management R 31:100 Mr '42

INSURANCE, Agricultural

Bill would end private cover on Commodity credit corp. crops. Ins Field (Fire ed) 70:9-10 N 27 '41

CCC's action in not requiring protection causes questions to arise. Nat Underw 46:13 F 19 '42

Crops covered on war risks by existing crop insurance contracts. East Underw 43:18 Jl 10 '42

Farm underwriters get out new form for farm grain. Nat Underw 46:16 Mr 5 '42

Government makes loans on rice; insurance required. Nat Underw 45:17 D 11 '41

Real opportunity exists for writing farm covers. Nat Underw 46:2 Jl 30 '42

See also

Federal crop insurance corporation

Insurance, Corn

Insurance, Cotton

Insurance, Fire—Farm policies

Insurance, Hail

Insurance, Live stock

Insurance, Wheat

INSURANCE, Aircraft damage

Aircraft policy excludes war damage. W. J. Reynolds. East Underw 42:29 D 19 '41

Armed allied plane loss seen as only gap between W.D.C. policy and fire and extended coverage. H. C. Conick. Nat Underw 46:4 N 5 '42

Contract to cover damage done by falling war planes. Nat Underw 46:6 F 5 '42

Glens Falls' plane crash cover broad. Nat Underw 46:11 N 5 '42

INSURANCE, Airplane cargo

Looking ahead on cargo insurance; air transportation may be dominant factor. R. B. Lynch. Weekly Underw 147:1072+ N 7 '42; Abstract. Nat Underw 46:8 N 5 '42

INSURANCE, Art

Bars action on fine arts policy for delay in getting appraisals. East Underw 43:25 Ja 16 '42

INSURANCE, Assessment

Contention arises on Rural Bankers. Nat Underw (Life ed) 46:11 O 16 '42

Fraternal orders, assessment life and accident associations; business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:99 sec 2 My 9 '42

Iowa moving against unlicensed societies. East Underw 43:5 Ag 28 '42

See also

Benefit societies

INSURANCE, Automobile

Arranging and servicing private passenger automobile insurance. J. H. M. Partington. East Underw 42:114 D 12 '41

Auto business of Aetna Casualty up; Chicago sales session. Nat Underw 46:21+ Ap 30 '42

INSURANCE, Automobile—*Continued*

Auto insurance volume holds up for first six months of this year. Nat Underw 46:13 Jl 23 '42

Auto losses may cost fire carriers their 1941 profits. Nat Underw 45:3+ N 13 '41

Auto situation puts emphasis on line diversification. Nat Underw 46:19+ Ja 22 '42

Automobile casualty lines expected to have good year despite war conditions. J. J. Hart. Weekly Underw 146:280+ Ja 31 '42

Automobile class causes much anxiety in casualty company ranks. Nat Underw 45:17 D 4 '41

Automobile fire insurance will still be sold in large volume. W. J. Wood, 2d. East Underw 43:29 F 27 '42

Automobile outlook; abstracts. W. T. Barr. Weekly Underw 146:524+ Mr 7 '42; East Underw 43:28 Mr 6 '42

Cessation of automobile production, tire curtailment promise effects on insurance. Ins Field (Fire ed) 71:18-19 Ja 8 '42

Executives study automobile data for recent months. Nat Underw 46:25+ Mr 12 '42

Finds $1,000 is minimum safe medical pay limit. Nat Underw 46:21 S 10 '42

From top of mountain, where? auto premiums in '41 at peak. Nat Underw (Auto ins no) 46:3 Ap 20 '42

Important changes during 1941 in automobile liability coverage. H. P. Stellwagen. Weekly Underw 146:144 Ja 10 '42

Income shift emphasizes insurance on older cars. Nat Underw (Auto ins no) 46:30 Ap 20 '42

Insurance and the auto victim. J. Chamberlain. il Spectator (Property ed) 7:10-12+ N 27 '41

Insuring your business; automobile and aviation insurance protect against a multiple number of hazards. F. C. Crowell, jr. Barron's 22:20 S 28 '42

Liability insurance and car-sharing. Nat Safety N 46:38 S '42

Small loan acts and automobile insurance; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-8 F 5 '42

Specialty offices canvass situation due to restrictions. Nat Underw 46:19 Ap 2 '42

View from executive chair on automobile situation; premiums will hold up in 1942. Nat Underw (Auto ins no) 46:6+ Ap 20 '42

War rules for cars will bring big insurance reaction. Nat Underw 46:4+ Ja 8 '42

See also

Insurance, Automobile trailer

Insurance, Motor truck

Insurance, Taxicab

Adjustment of claims

Action of auto adjuster held to waive proof of loss provisions. East Underw 43:27 Jl 24 '42

Application for insurance not rejected if company holds premium. East Underw 43:23 S 18 '42

Approves partial bond in auto injury case appeal. Nat Underw 46:19 Jl 16 '42

Assured's refusal to attend trial unless travel expenses paid held not breach of cooperation clause of policy. Weekly Underw 146:206 Ja 17 '42

Auto dealer, as mortgagee, loses suit under loss payable clause. East Underw 42:38 N 7 '41

Auto policy voided by transfer of car; mortgagee cannot recover. East Underw 42:29 N 21 '41

Border lines of automobile liability coverage, loading and unloading claims. R. Alexander. Weekly Underw 147:460-3 Ag 29 '42

Court defines subrogation rights in auto case involving mortgagee. East Underw 43:27 Je 19 '42

Court holds one who borrows car may have an insurable interest. East Underw 43:35 Ap 10 '42

Court holds replacement may exceed cost of repairs for car. East Underw 42:27 N 28 '41

Court remands case for alleged excessive award by appraisers. East Underw 43:28 F 6 '42

Coverage under automobile liability policy for injuries to wife of assured. Weekly Underw 146:979 Ap 25 '42

Defective vehicles; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:26-8 Ag 20 '42

Duty of insurer to defend based on allegations in damage suit complaint. Weekly Underw 146:1029 My 2 '42

Excess wins case involving Central Mutual. Nat Underw 46:17+ Je 25 '42

Extended coverage clause does not apply to employee directed to wash car at garage entrance. Weekly Underw 146:863 Ap 11 '42

External damage to parked car defined by court as collision. East Underw 43:31 Ja 30 '42

Failure to make prompt denial of liability estops insurer from defending on ground of breach of policy conditions. Weekly Underw 145:1114 N 8 '41

Failure to tender travel expenses bars defense of lack of cooperation by assured's refusal to attend trial. Weekly Underw 147:770 S 26 '42

Farm bureau loses in U.S. Supreme court. East Underw 43:30 My 15 '42

Joint control of car; teaching minor driver. J. Simpson. East Underw 42:37 D 19 '41

Kansas court takes liberal view in automobile theft case; Oklahoma court rules on meaning of theft under terms of automobile policy. East Underw 43:29 Ap 24 '42

Lack of notice depriving reinsurer of right to participate in defense of damage suit held prejudicial. Weekly Underw 147:946 O 17 '42

Liability over policy limits; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-7 N 27 '41

Loan receipts and subrogation; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:34-6 Je 11 '42

Non-alcoholic automobile policies; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:26-8 O 1 '42

Omnibus clause applies only to driver using car at time or place for purpose authorized by assured. Weekly Underw 146:358 F 7 '42

Omnibus clause in automobile liability policies; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:26-8 Ag 6 '42

Other and excess insurance; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:30-1 D 11 '41

Permission and the omnibus clause; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:34-5 Mr 19 '42

Principal place of garaging; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:26-8 S 3 '42

Proof use of intoxicating liquor proximate cause of accident held unnecessary to release insurer. Weekly Underw 147:534 S 5 '42

Third party law; judgment in the case of Miss Merle Oberon's chauffeur. Economist 143:233 Ag 22 '42

Transfer of interest clause held waived in auto collision case. East Underw 43:31 Ja 30 '42

Unauthorized taking of automobile held within coverage of theft policy despite intent to return. Weekly Underw 146:809 Ap 4 '42

Unregistered transfer of title to automobile held not binding on subsequent mortgagee without notice. Weekly Underw 146:249 Ja 24 '42

Warns of New York auto law's effect on claim settlements. E. Bloch. Nat Underw 46:23 Mr 19 '42

Advertising

Ætna poster wins national award. il East Underw 43:35 F 13 '42; Weekly Underw 146:436-7 F 21 '42

INSURANCE, Automobile—*Continued*

Agents

A's have it; producers' reactions to auto rate cuts; opportunities to sell new lines. L. F. Tillinghast. East Underw 43:40-1 O 9 '42

Auto lines offer both challenge and opportunity. C. G. Hallowell. East Underw 43:39 Ap 24 '42

Californians study ways of meeting auto competition. Nat Underw 45:33 N 20 '41

Encouraging view of auto situation; abstracts. W. J. O'Donnell. Nat Underw 46:28+ Mr 5 '42; Nat Underw (Auto ins no) 46:31+ Ap 20 '42; East Underw 43:38 Mr 6 '42

Excellent opportunities for automobile insurance sales. O. Conard. Nat Underw (Auto ins no) 46:4 Ap 20 '42

Faces facts on new car situation in letter to brokers. J. F. Nubel. East Underw 43:38 Ap 24 '42

Florida holds all auto risk salesmen must be licensed agents. East Underw 42:26 N 28 '41

Group scores licensing of auto dealers; problems flowing out of war. Ins Field (Chicago Conv Daily ed) 71:4 S 24 '42

Halt licensing of automobile dealers; Georgia law violated. Weekly Underw 146:421+ F 21 '42

How prominent local agents view the automobile situation. Nat Underw (Auto ins no) 46:5+, 12-13 Ap 20 '42

Leading producers prepared for stoppage of auto production. East Underw 43:20-1, 37-8 pt 2 My 15 '42

Maintaining auto volume. C. N. Pickard. Ins Field (Fire ed) 71:20 Je 25 '42

Many ways to offset loss of auto business; panel discussion by Kansas agents. Nat Underw 46:17+ O 15 '42

Michigan ruling on financed cars. Nat Underw 45:16 D 4 '41; Weekly Underw 145:1326 D 13 '41

Money can still be made in auto liability and fire and theft lines. H. R. Adelmann. East Underw 43:39 Ap 24 '42

Need agents' aid in expediting N.Y. auto law work. R. E. Richman. Nat Underw 46:27+ Mr 5 '42

Watch those renewals. J. B. Johnson. Ins Field (Fire ed) 71:18-19 My 14 '42

What about the market now? S. W. Schellenger. Nat Underw (Auto ins no) 46:9+ Ap 20 '42

Commissions

Advocates uniform rule to forestall commission return. F. L. Summer. East Underw 43:27 Jl 24 '42

Ohio agent loses license for rebate to auto dealer. Nat Underw 46:8 Ja 29 '42

Splitting insurance commissions; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:30-1 Ap 2 '42

Assigned risks

Assigned auto risk plan for Wisconsin. Nat Underw 46:17-18 Jl 16; 14 Jl 23 '42

Auto assigned risk plans in various states. C. G. van der Feen. Nat Underw 46:26 My 21 '42

California assigned risk plan in effect. Nat Underw 46:28 Jl 2 '42

California assigned risk plan set up. Nat Underw 46:16 Ap 23 '42

Cancellation

Acts on not taken policies; Virginia commission approves change. East Underw 43:42 Ap 24 '42

Dubuque issue on cancellation settled in California. Nat Underw 46:15 F 12 '42

Compulsory liability

New workmen's livery in Massachusetts creates problems under compulsory law. Nat Underw 45:20 D 18 '41

Coverage

Automobile liability; main changes in revision of Automobile casualty manual, June 1, 1942. Spectator (Property ed) 7:30 Je 11 '42

Bureau issues changes in auto casualty manual. Ins Field (Fire ed) 71:22-3 Jl 23 '42

Casualty companies support Henderson in auto ride sharing coverage request. Weekly Underw 147:505 S 5 '42

Companies comply with the new plan. Nat Underw 46:21 S 10 '42

Companies to protect car sharing workers. East Underw 43:29 S 4 '42

Cooperating companies construe policies as providing guest coverage on cars of workers in Massachusetts. East Underw 43:30 Je 19 '42

Drive other cars coverage extended by National bureau. Nat Underw 46:13-14 Jl 23 '42

Fire companies policies to cover emergency use of automobiles; N.A.U.A. announcement. East Underw 43:1+ My 8 '42; Nat Underw 46:5 My 7 '42

Liability companies agree to cover emergency use of automobiles without charge. Weekly Underw 146:1012+ My 2 '42; East Underw 43:32+ My 1 '42; Nat Underw 46:23+ Ap 30 '42; Spectator (Property ed) 7:26-7+ My 14 '42

Much interest in share ride cover. G. L. Ireland; F. R. Holmes. Nat Underw 46:15+ Ag 20 '42

Provident extends auto accident policies to cover all travel. Nat Underw (Life ed) 46:18 Jl 17 '42

Query carriers on share ride charges. Nat Underw 46:15 Ag 13 '42

Workmen's livery class set up in Massachusetts; rates cut. Nat Underw 46:26 Je 11 '42

Deferred payment protection

See Insurance, Automobile—Financed automobiles

Finance

Aggregate results of 1941 operations. Nat Underw 46:2+ Mr 12 '42

American automobile insurance company; analysis. Spectator (Property ed) 7:40-1 Je 11 '42

American fire and casualty company; analysis. Spectator (Property ed) 7:42-4 Mr 19 '42

Auto premiums by company groups, 1940 and 1941. Nat Underw (Auto ins no) 46:20-1 Ap 20 '42

Automobile insurance experience exhibit, 1937-1941. Nat Underw (Auto ins no) 46:3 Ap 20 '42

Automobile liability results, 1941; profit foreseen in 1942; tabulation. L. S. Fischer. Spectator (Property ed) 8:16-17 Jl 23 '42

Automobile premiums and losses of stock casualty, reciprocals, and Lloyds companies, 1939-1941. Nat Underw (Auto ins no) 46:22-3 Ap 20 '42

Automobile premiums of fire companies, 1938-1941. East Underw 43:31-3, 34, 36, 38 Ap 24 '42

Casualty company automobile net-premium results, by states, during 1941; tabulation. Spectator (Property ed) 8:11 Ag 6 '42

Full cover stock group, premiums, losses, etc., 1940 and 1941. Nat Underw (Auto ins no) 46:28-9 Ap 20 '42

Insurance stocks; effect of cessation of civilian automobile production. Comm & Fin Chr 155:750 F 19 '42

Insurance stocks; effect of curtailment of automobile insurance and of high ocean marine losses. Comm & Fin Chr 155:2022 My 28 '42

Mutual auto premiums & losses, 1939-1941. Nat Underw (Auto ins no) 46:24-6 Ap 20 '42

N.Y. state auto writings of stock casualty companies, 1938 to 1941; tabulation East Underw 43:44-6+ Ap 24 '42

New York study of auto experience of casualty companies, 1941. Nat Underw 46:24 My 21 '42

1941 automobile and ocean marine premiums registered large increase; results by companies. East Underw 43:19+ Mr 6 '42

Stock casualty companies auto writings, 1938-1941. East Underw 43:40-2 Ap 24 '42

INSURANCE, Automobile—Finance—*Cont.*

Stock fire auto premiums and losses in 1941 by individual companies. Nat Underw (Auto ins no) 46:18+ Ap 20 '42

Trend of automobile liability net premiums, year ending Dec. 31, 1941 and first 6 months of 1941 and of 1942; tabulation. Spectator (Property ed) 8:21 S 17 '42

Financed automobiles

Court holds mortgage clause is both reasonable and advisable. East Underw 43:33 Ap 24 '42

Holds auto loan insurance fee legal. East Underw 43:24 Ag 7 '42

It's being done in Florida; local agents are recovering auto premiums. F. C. Crowell, jr. Ins Field (Fire ed) 70:22-3+ N 20 '41

Method of canceling finance risks is California issue. Nat Underw 46:2 Ja 22 '42

Michigan ruling on financed cars. Nat Underw 45:16 D 4 '41; Weekly Underw 145:1326 D 13 '41

No refund for finance company on premiums never paid to insurer. East Underw 43:23 S 18 '42

Ohio agent loses license for rebate to auto dealer. Nat Underw 46:8 Ja 29 '42

See also Insurance, Surety and fidelity—Automobile financing indemnity bond

Financial responsibility laws

Attorney-General Bennett rules on qualified New York motor car insurers. Weekly Underw 146:131 Ja 10 '42

Automobile financial responsibility law working in New York. il Spectator (Property ed) 8:10-11 O 29 '42

Big premium gain focuses attention on New York law. Nat Underw (Auto ins no) 46:13-14 Ap 20 '42

Comments on Maine auto law. A. W. Perkins. Nat Underw 46:4 O 22 '42

Court upholds terms of auto safety law. East Underw 43:34 Jl 24 '42

Favor N.Y. auto law changes at hearing. East Underw 43:30 F 27 '42

Fidelity & Casualty designs a new accident report blank. East Underw 43:30 Ja 23 '42

High court upholds responsibility law. Nat Underw 45:25 N 13 '41; East Underw 42:33 N 21 '41

Innocent drivers exempt; Gov. Lehman signs bill relaxing safety responsibility law. East Underw 43:39 Mr 13 '42

Nation watches operation of New York safety law; abstracts. B. A. Culloton. East Underw 43:22 My 15 '42; Nat Underw 46:18+ My 14 '42

Need agents' aid in expediting N.Y. auto law work. R. E. Richman. Nat Underw 46:27+ Mr 5 '42

New safety responsibility act in spotlight at Board of trade lunch. East Underw 42:28+ N 28 '41

New York city jalopy owners rush to buy insurance. Nat Underw 46:19 F 19 '42

New York department eyes surcharge on certified risks. Nat Underw 45:17-18 N 27 '41

New York financial responsibility law; abstracts. C. E. Mealey. Weekly Underw 146:551+ Mr 7 '42; East Underw 43:36-7 Mr 6 '42; Nat Underw 46:25+ Mr 12 '42

New York financial responsibility law; six months experience. L. M. Gardner. Ins Field (Fire ed) 71:18-20 Je 11 '42; Abstract. Nat Underw 46:32 Je 11 '42

New York Governor signs automobile registration measure. Nat Underw 46:22 My 28 '42

New York law brings special problems to car renting services. Nat Underw 45:24 D 11 '41

New York motor law amendments approved. Weekly Underw 146:1152 My 23 '42

New York motor vehicle safety-responsibility act. J. L. Roesch. Spectator (Property ed) 7:26-7 N 13 '41

New York responsibility dept. cost under $605,000. Nat Underw 46:15 Ag 20 '42

New York truck renters risk right to drive. Nat Underw 46:19 F 26 '42

Object to auto cover surcharge in Maine. Nat Underw 46:23 F 5 '42

Page, Anderson seek to amend auto statute. East Underw 43:32+ F 13 '42

Pass bill to relieve insurers of New York expense. Nat Underw 46:38 Ap 30 '42

What N.Y. safety law teaches about insuring public. G. V. Catuna. East Underw 43:38 Mr 6 '42

See also Insurance, Surety and fidelity—Automobile financing indemnity bond

Fleet coverage

Security presents sales interview for automobile fleet insurance. East Underw 42:30 D 26 '41

See also Insurance, Automobile—Rates—Fleet rates

Fraudulent claims

Accident ring of 80 is now completely destroyed. Nat Underw 45:18 D 25 '41

Fake accident ring leaders sentenced in Missouri. Weekly Underw 146:1407 Je 20 '42

Head men of southern gang land behind bars. Weekly Underw 145:1145 N 15 '41

Garage owners' and dealers' liability policies

Garage coverage; West Virginia policy endorsement. Weekly Underw 145:1271 D 6 '41

Garage keepers' legal liability. E. R. Voorhis. Ins Field (Fire ed) 70:22-3 N 13 '41

Garage policy held excess policy. East Underw 43:29 S 11 '42

Guest liability

Guest laws go through testing process in courts. Nat Underw 45:19+ N 27 '41

Lower court ruling in share-ride case. Nat Underw 46:21 N 5 '42

Instalment premiums

Auto liability installments adopted by Rochester agents. East Underw 42:32 N 14 '41

Policies

Act on broadened auto coverage; National bureau comments. Weekly Underw 145:1225+ N 29 '41; Same abr. East Underw 42:29 N 28 '41

American Automobile brings out little comprehensive form; links personal liability and auto coverages. Nat Underw 46:23+ O 15 '42

Auto dealers profits form is approved by N.A.U.A. Nat Underw 46:3+ Mr 19 '42

Auto rules revised, medical payments, layups extended. Nat Underw 46:21+ Je 4 '42

Automobile accident. Spectator (Property ed) 7:28 Mr 19 '42; Correction. 7:27 Ap 2 '42

Automobile liability; companies agreeing to third revision. Spectator (Property ed) 7:25 D 11 '41

Automobile liability; statement by American mutual alliance on interpretation of standard provisions, 3d revision. Spectator (Property ed) 7:23 Ja 8 '42

Comprehensive automobile liability insurance. E. W. Sawyer. Weekly Underw 145:1413-14+ D 20 '41

Describes new auto policy to Texans. B. Greaves. Nat Underw 46:31 Ja 29 '42

Is insurer obliged to defend suit in this case? "alleging such injury." Weekly Underw 146:930+, 942, 1044 Ap 18-25, My 9 '42

More protection with less rubber; standard automobile policy issued for safeticycle. Spectator (Property ed) 7:28 Mr 19 '42

Non-alcoholic automobile policies; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:26-8 O 1 '42

Ride sharing may boost sale of medical pay form. Nat Underw 46:21 S 17 '42

Will wedding bells ring for John and Barbara; you must ask your English grammar; Massachusetts motor vehicle liability policy. Weekly Underw 147:412+ Ag 22 '42

See also

Insurance, Automobile—Coverage

INSURANCE, Automobile—*Continued*

Policy holders

Just telegraph; wire services available to Indemnity automobile policyholders. Weekly Underw 146:145 Ja 10 '42

Premiums, Payment of

Salary deductions for auto premiums menaced in N.Y. Nat Underw 46:18 Ja 22 '42

See also Insurance, Automobile—Instalment premiums

Premiums, Recovery of

Brokers protest auto rate cut conditions. Ins Field (Fire ed) 71:17+ O 8 '42
Pro rata credits for cars laid up by war conditions. Nat Underw 46:27 Mr 5 '42
Rule car owner may get refund in Virginia. Weekly Underw 146:558 Mr 7 '42

Preventive work

Auto underwriters detective bureau now 25 years old. East Underw 43:1+ F 27 '42
New Aetna Life movie, Highway sabotage. Nat Underw 46:23 My 28 '42

Rates

Against cut in auto rates. G. E. Traut. Nat Underw 46:13-14 Jl 23 '42
American Automobile reduces auto B.I. rates on country-wide basis. East Underw 43:35 O 9 '42; Nat Underw 46:19 O 8 '42; Weekly Underw 147:865 O 10 '42
American Automobile to meet new Bureau rates; independents go along. Nat Underw 46:19+ O 29 '42
American Automobile's position in rate issue defended. O. Patterson. Nat Underw 46:21+ O 22 '42
A's have it; producers' reactions to auto rate cuts; opportunities to sell new lines. L. F. Tillinghast. East Underw 43:40-1 O 9 '42
Auto rate conferences are inconclusive. Nat Underw 46:15+ Ag 13 '42
Auto rate cut. Business Week p80-1 O 3; p89-90 O 31 '42
Auto rate manual; opinion by Virginia corporation commission. Weekly Underw 145:1391 D 20 '41
Automobile rates are considered in New York parleys; Superintendent Pink's comments. Nat Underw 46:14+ Ag 6 '42
Baruch report closely studied by insurance men. Nat Underw 46:19+ S 17 '42
Britain's new auto rates. East Underw 43:26 Jl 17 '42
Brokers protest auto rate cut conditions. Ins Field (Fire ed) 71:17+ O 8 '42
Bureau issues instructions regarding handling of bodily injury rate reductions. Weekly Underw 147:870-1 O 10 '42; Nat Underw 46:17+ O 8 '42
Bureau names final emergency rates for auto liability, nation-wide. East Underw 43:28+ O 23 '42; Nat Underw 46:21+ O 22 '42; Weekly Underw 147:957+ O 24 '42
Bureau people ponder auto rates anew; action of American Automobile. Nat Underw 46:23 O 15 '42; East Underw 43:29 O 16 '42
Bureau revises bodily injury and property damage rates country wide. Nat Underw 46:21+ Ja 15 '42; East Underw 43:30 Ja 16 '42
Canada auto rates are cut for individuals. East Underw 43:35 Ap 10 '42; Nat Underw 46:22 Ap 9 '42
Canadian auto rates are sharply reduced. East Underw 43:42 Ap 24 '42
Clarify phases of California auto plan now in effect. Nat Underw 46:20 My 7 '42
Continental grants emergency car rating. Weekly Underw 146:1013 My 2 '42
Cut in automobile rates asked of commissioners in East. Weekly Underw 147:546+ S 12 '42
Don't lay long-range plans now! J. J. Hart. Ins Field (Fire ed) 71:8-9 Jl 9 '42; Excerpts. Weekly Underw 147:34 Jl 4 '42
Drastic reductions would be mistake, say officials. Nat Underw 46:18 My 14 '42
Gas rationing has silenced the song of the open road and motorists are wondering why rates aren't cut. D. Porter. Ins Field (Fire ed) 71:21-2 Ag 20 '42
Higher collision rates Jan. 2. Nat Underw 46:3 Ja 1 '42
Hold up medical payments, merit rating in Illinois; other factors in situation. Nat Underw 46:19+ N 5 '42
Impetuous action on auto rates to be avoided. Nat Underw 46:17-18 Jl 9 '42
Independents agree to boost P.L., P.D. rates in Illinois. Nat Underw 45:18 N 27 '41
Iowa rate situation confused; cautious attitude prevails. Nat Underw 46:19 Jl 16 '42
May move to adjust auto rates to new trend. Nat Underw 46:19+ My 7 '42
N.A.U.A. announces new automobile manuals for most states. Ins Field (Fire ed) 71:26 Ap 30 '42; Nat Underw 46:1 Ap 23 '42; Weekly Underw 146:999 My 2 '42
New and lower rates for auto medical cover. Nat Underw 46:20 O 29 '42
New auto rates are introduced rapidly; non-bureau companies act. East Underw 43:25+ O 30 '42
New York department eyes surcharge on certified risks. Nat Underw 45:17-18 N 27 '41
No rate increase for N.Y. auto coverage. East Underw 43:27 Ja 2 '42; Nat Underw 46:13+ Ja 1 '42
Non-Bureau people adjust auto rates. Nat Underw 46:19+ Ja 22 '42
Objects to automobile cut. T. W. Earls. Nat Underw 46:29 N 5 '42
Pink, approving auto rates, is in sympathy with brokers on date line. East Underw 43:32 O 23 '42
Pink, Rouillard, Bowles, and Hodges approve cut. East Underw 43:33 O 2 '42
Predict auto rate increase. Nat Underw 45:15 D 4; 4+ D 18 '41
Qualification for class A-1 auto rating eased. Nat Underw 46:22 My 28 '42
Raise auto P.L., P.D. rates in state of Washington. Nat Underw 45:17 D 4 '41
Stock and mutuals cooperate as to automobile rates. Nat Underw 45:20 N 6 '41
20 per cent cut for A card; 10 per cent for B and C in rationed area. Nat Underw 46:19-20 O 1 '42; East Underw 43:32-3 O 2 '42; Weekly Underw 147:810+ O 3 '42
Workmen's livery class set up in Massachusetts; rates cut. Nat Underw 46:26 Je 11 '42

Fleet rates

All companies sign California fleet agreement. G. Macdonald. Ins Field (Fire ed) 71:27 Ap 30 '42
California pact on auto fleets ready. Nat Underw 46:3 F 26 '42
Caminetti and California dept. work with company men to solve fictitious fleet problem. G. Macdonald. Ins Field (Fire ed) 71:15+ F 26 '42
Caminetti approves agreement on fictitious fleet problem. East Underw 43:37 Mr 20 '42
Committee to conduct hearing on agreement; fictitious fleets in California. East Underw 43:35 Mr 6 '42

Safe driver rating plans

Extends merit rating to commercial cars; Indemnity insurance co. of N.A. program. East Underw 43:38 Ap 24 '42
Merit rating ban lifted in Washington; up to 20% allowed. Nat Underw 46:26 Ja 22 '42
Principles behind merit rating plan of Buffalo for collision. Nat Underw 46:14 S 24 '42

Reinsurance

Lack of notice depriving reinsurer of right to participate in defense of damage suit held prejudicial. Weekly Underw 147:946 O 17 '42

Renewal certificates

Agents, company men differ on auto renewal slips. Nat Underw 46:34 My 14 '42
Renewal certificates; ruling by Missouri. Weekly Underw 147:359 Ag 22 '42

INSURANCE, Automobile—Renewal certificates —*Continued*

Washington O.K.'s auto renewal form. Nat Underw 46:6 Je 4 '42

Statistics

Number of suits outstanding per $100,000 of earned premiums of liability business second period, policy years 1939-1941 as of December 31, 1941. Spectator (Property ed) 8:18 S 17 '42

Relationship of suits to earned premiums. Nat Underw (Auto ins no) 46:19 Ap 20 '42

War problems

Effect of war on insured's liability and coverage. J. B. Martin. East Underw 43:32 S 4 '42

War risks

Believe companies liable for blackout auto claims. East Underw 42:18 D 19 '41

British writer studies black-out liability. Spectator (Property ed) 7:9 Je 25 '42

General's war covers sanctioned for New York. East Underw 43:26 Ja 30 '42; Ins Field (Fire ed) 71:13 Ja 29 '42

Services' insurer sets policy on blackout claims. Nat Underw 46:37 Ap 2 '42

California

All companies sign California fleet agreement. G. Macdonald. Ins Field (Fire ed) 71:27 Ap 30 '42

California auto agreement meets 100% approval. Nat Underw 46:38 Ap 30 '42

Canada

Canada auto rates are cut for individuals. East Underw 43:35 Ap 10 '42

Changes in Canada auto insurance law. Nat Underw 46:35 My 14 '42

Public liability loss ratio high in Canada. East Underw 42:110 D 12 '41

War restrictions effect on business. J. Barnes. Nat Underw (Auto ins no) 46:15-16+ Ap 20 '42

Connecticut

Warns of support for compulsory auto bill. East Underw 43:40 N 6 '42

Florida

Florida holds all auto risk salesmen must be licensed agents. East Underw 42:26 N 28 '41

It's being done in Florida; local agents are recovering auto premiums. F. C. Crowell, jr. Ins Field (Fire ed) 70:22-3+ N 20 '41

Great Britain

Britain's new auto rates. East Underw 43:26 Jl 17 '42

Illinois

Bars convertible form in Illinois. Nat Underw 45:13 D 18 '41

Illinois procedure; requirements for two automobile lines. Weekly Underw 147:133 Jl 18 '42

Youthful motorist problem studied as compulsory threat. H. S. Moser. Nat Underw 45:19+ N 13 '41

Louisiana

Auto liability; Louisiana commission ruling. Weekly Underw 145:1443 D 27 '41

Mexico

Status of Mexico automobile cover. Nat Underw 46:20 F 12 '42

Michigan

Ask fire carriers to write 80-20 collision form; other Michigan problems. A. L. Dreifus. Nat Underw 46:15+ S 10 '42

Convertible form argued in Michigan. Nat Underw 46:1 Ag 20 '42

Virginia

Rule car owner may get refund in Virginia; other orders. Weekly Underw 146:558 Mr 7 '42

INSURANCE, Automobile trailer

Application for insurance not rejected if company holds premium. East Underw 43:23 S 18 '42

Coverage under new automobile policy for the use of trailers. East Underw 43:31 F 20 '42

U.S. encourages auto trailers for defense workers. Nat Underw 46:14 Mr 26 '42

INSURANCE, Aviation

Air training is premium source. Nat Underw 46:17 Ag 20 '42

Air travel accident cover on trips near combat zones closely underwritten. Nat Underw 46:20 F 19 '42

Aviation insurance manual. Aero insurance underwriters, New York '41

Bright future for aviation coverage. A. C. Harris. Weekly Underw 146:536-7, 653 Mr 7, 21 '42

Buying protection with insurance. D. H. Wimmer. Aero Digest 40:72+ Mr '42

Crashed airliners both covered by Associated aviation underwriters. Nat Underw 45:19 N 6 '41

Flying schools buy cover for pilots. Nat Underw 46:24 O 15 '42

Insurance market for 1941 aviation to reach $6,000,000. D. deR. M. Scarritt. East Underw 42:1, 85+ D 12 '41

Insuring your business; automobile and aviation insurance protect against a multiple number of hazards. F. C. Crowell, jr. Barron's 22:20 S 28 '42

Looking ahead in aviation underwriting. W. A. Hamlin. il Spectator (Property ed) 7:10-13+ F 5; 10-14+ F 19 '42

New field opened in compulsory cover for air patrol. Nat Underw 46:20+ My 21 '42

Survey of our position in the property insurance business. C. G. Hale. Spectator (Property ed) 7:8-12, 24+ Ja 8 '42

Wrecked planes insured; American airlines and Northwest airlines covered by A.A.U. East Underw 42:22 N 7 '41

See also

Insurance, Airplane cargo

Insurance, Employers' liability—Aviation risks

Insurance, Life—Aviation risks

Agents

Urge agents to aid pilot training enrollment. Nat Underw 46:17+ Jl 2 '42

Finance

Air hull premiums up; P.L. income down in '41; statistics for 1937-1941. Nat Underw 46:3 Jl 16 '42

Policies

Aviation personal accident. Spectator (Property ed) 7:22 F 5 '42

Civil air patrol liability insurance. Spectator (Property ed) 7:18 My 28 '42

Master policies cover C.A.P. operations. Ins Field (Fire ed) 71:12 Ag 13 '42

Sick benefits in pilot policies. Nat Underw 46:17 Je 25 '42

See also Insurance, Hangar keeper's liability

Rates

Aviation training rates drop 30%. Ins Field (Fire ed) 7:9 F 26 '42; Nat Underw 46:21 F 19 '42

INSURANCE, Bailees' customers

Bailee insurer; between the bailee's customer's policy and the fur floater policy the former covers. Weekly Underw 146:550 Mr 7 '42; East Underw 43:19 Ag 14 '42

Bailees' customers form. L. C. Ehrhart. Weekly Underw 147:668 S 19 '42

Coverage under the bailees' customers insurance policy. F. C. Crowell, jr. Ins Field (Fire ed) 70:24-5 N 13 '41

Specific policy liable where floater also covered same risk. East Underw 43:32 F 20 '42

INSURANCE, Bequest

Bequest insurance; field in which life insurance can serve ever-growing social need. C. D. Connell. il East Underw 43:3 Je 5 '42

INSURANCE, Bicycle

Buckeye Union Casualty prepared to write bicycle insurance. Nat Underw 46:18 My 14 '42

Continental Casualty's bicycle coverage plan. Nat Underw 46:27 Je 11 '42

Interest grows in bicycle coverage as use increases. Nat Underw 46:12 Mr 19 '42

Manufacturers Casualty has new comprehensive bicycle coverage. Nat Underw 46:23 My 28 '42

New owner's, landlord's and tenants' coverage for bicycle liability and volunteer war workers. East Underw 43:28+ Jl 10 '42; Nat Underw 46:17-18 Jl 16 '42

INSURANCE, Boiler

Issuance by the National bureau of two revised forms for boilers. Spectator (Property ed) 7:19 My 28 '42

See also

Insurance, Power plant

INSURANCE, Bridge

Audit on Tacoma bridge loss completed. Nat Underw 46:2 Je 25 '42

Court holds Fidelity & Guaranty on Tacoma bridge. Nat Underw 46:6 S 24 '42

Hartford bridge collapse brings insurance losses. Nat Underw 45:9 D 11 '41

Priorities causing bridge U.&O. shifts. Nat Underw 45:2 N 13 '41

Review of Tacoma Narrows bridge case on first anniversary. D. Porter. Ins Field (Fire ed) 70:8-9 N 13 '41

INSURANCE, Builders' risk marine

U.S. navy insurance requirements embrace wide range of coverages. East Underw 42:73 D 12 '41

INSURANCE, Burglary

Broaden valuable papers form, other burglary changes. Nat Underw 46:17 My 14 '42

Burglary lines. E. H. Luecke. East Underw 43:33 Ja 23 '42

Burglary lines are salable. G. E. Williams. Ins Field (Fire ed) 71:22 O 8 '42

Burglary rates on food stamps raised. Nat Underw 46:20 F 12 '42

Changes to increase burglary sales urged. R. L. Mannon. Nat Underw 46:20 O 29 '42

Open stock burglary is best seller today. Nat Underw 45:17 N 27 '41

See heavy losses ahead for open stock burglary. Nat Underw 46:21 My 28 '42

True and false quiz. Weekly Underw 145:1084 N 8 '41

Adjustment of claims

Assured's premises does not include office rented to separate party but entered through assured's reception room. Weekly Underw 146:750 Mr 28 '42

Policies

Food stamps and burglary. Spectator (Property ed) 7:35 Mr 5 '42

Premises all-risk policy for safes. Nat Underw 46:7 S 10 '42

War risks

Adopt war clause for various burglary covers. Nat Underw 45:17 D 25 '41

INSURANCE, Business

Business insurance plan. G. S. Vrionis. Trusts & Estates 73:629-32 D '41; Reply. R. E. O'Dea. 74:270; Rejoinder. 270-1 Mr '42

Business men's insurance needs; abstracts. H. M. Files. East Underw 43:12+ Ja 9 '42; Nat Underw (Life ed) 46:23-4 Ja 9 '42

Inflated incomes bring danger of overinsurance. Nat Underw (Life ed) 46:9 S 25 '42

Insure the profit-producers. R. Sanborn. Ins Field (Life ed) 71:19 Je 26 '42

Insuring your business; business life insurance an important adjunct to rounded protection. F. C. Crowell, jr. Barron's 22:9 O 19 '42; Abstract. Management R 31:396-8 N '42

Life insurance as hedge against business hazards. A. H. Kollenberg. East Underw 43:4+ Mr 13 '42

Life insurance for credit protection. C. F. Gay. Credit & Fin Management 44:15+ O '42

Modification of life insurance trusts; changes required by the war. H. B. Thompson. Trusts & Estates 75:245-8 S '42; Same abr. Nat Underw (Life ed) 46:8 Ag 28 '42

A must for business men. R. F. Spindell and P. F. Millett. East Underw 43:70 pt 2 O 9 '42

New business life insurance plan; master contract plan designed to serve growing needs. R. O. Bickel. Trusts & Estates 74:585-9 Je '42

Partnership arrangement. A. Royal. Nat Underw (Life ed) 46:19 S 11 '42

Partnership settlements easy when life insurance is used. E. Beckman. Bankers Mo 59:56-7+ F '42

Protecting management capital is vital service. W. N. Watson. Nat Underw (Life ed) 46:31 Ja 30 '42

Some problems in writing business purchase agreements. R. J. Lawthers. East Underw 43:3+ Ja 16 '42

Stock purchase agreement; guide to drafting business insurance plans. S. J. Foosaner. Trusts & Estates 74:59-63 Ja '42; Reply. G. Simons. 74:272; Rejoinder. 273 Mr '42

War makes key-man coverage vital for many firms. F. U. Levy. Nat Underw (Life ed) 46:9 Mr 20 '42

Accounting

Cash surrender value of life insurance policies as current assets. J Account 74:171-2 Ag '42

Agents

Business evaluation chart draws favorable comment; approach for small business firms. R. W. Wilkinson. East Underw 43:3+ Jl 3 '42

Changing sales plan after reaching prospect. P. W. Cook. East Underw 43:111+ pt 2 O 9 '42

Get your share of business life insurance. R. Sanborn. Ins Field (Life ed) 70:15+ N 28 '41

Small businesses are still tremendous market. R. W. Wilkinson. Nat Underw (Life ed) 46:23 Jl 3 '42

INSURANCE, Business interruption. See Insurance, Use and occupancy

INSURANCE, Camera

Camera floater claims cost more at this time. Nat Underw 45:9 N 27 '41

INSURANCE, Casualty

Bituminous Casualty completes 25 successful years. Weekly Underw 146:234 Ja 24 '42

Casualty and surety conference committee reports to New York agents meeting. Weekly Underw 146:1108+ My 16 '42

Casualty companies meet national demands. J. S. Kemper. Weekly Underw 146:75-6 Ja 3 '42

Casualty insurance, an analysis of hazards, policies, companies and rates. C. A. Kulp. rev ed 680p bibliog(p661-70) $5 Ronald press '42; Review. East Underw 43:32 Ap 10 '42

Casualty insurance educator. 232p $2 Underwriter ptg. and pub. co, New York '41

Casualty insurance highlights of 1941. E. C. Stone. Weekly Underw 146:68, 70+ Ja 3 '42

Casualty insurance lines offer opportunity today. W. F. Somerville. East Underw 43:36 Ag 21 '42; Same. Nat Underw 46:17 Ag 20 '42; Same. Weekly Underw 147:327+ Ag 15 '42

Casualty insurance 1941-42; from a sales point of view. L. R. Ringer. Ins Field (Fire ed) 71:16-17 Ja 1 '42

Casualty insurance principles. G. F. Michelbacher. 2d ed 705p bibliog(p687) $5 McGraw-Hill '42; Review. East Underw 43:30-1 O 16 '42

Casualty quiz presented at Syracuse. R. A. Duffus. Weekly Underw 146:1408 Je 20 '42

Casualty subjects are considered by commissioners. Nat Underw 45:25+ D 11 '41

Casualty-surety production picture. D. Porter. Ins Field (Fire ed) 71:16-17 N 5 '42

INSURANCE, Casualty—*Continued*

Casualty volume up 10-15% for first half of 1942; major developments to date. W. L. Clapp. East Underw 43:28-9 Jl 24 '42

Eyes government influence; major developments in the casualty field. J. C. O'Connor. Nat Underw 45:19+ D 18 '41

Insurance for rank and file premium payers. Nat Underw 45:15 D 4 '41

1941 results good; outlook is confusing; executives view problems. W. L. Clapp. East Underw 42:31+ D 26 '41

Outlook for casualty insurance production. D. M. Parker. East Underw 43:3+ pt 2 My 15 '42

Outstanding trends in casualty lines. R. I. Catlin. Weekly Underw 145:1346-7+ D 13 '41

Stock casualty-surety companies doing their share in battle of democracy. C. W. Fairchild. East Underw 42:93-4 D 12 '41

We'll see some changes made. W. F. Somerville. Ins Field (Fire ed) 71:20-1 Ag 27 '42

See also

Casualty actuarial society
Insurance, Accident
Insurance, Automobile
Insurance, Aviation
Insurance, Burglary
Insurance, Hail
Insurance, Liability
Insurance, Motor truck
Insurance, Plate glass
Insurance, Power plant
Insurance, Surety and fidelity
Insurance, Tornado
Insurance, Workmen's compensation

also Association of casualty and surety executives; Casualty actuarial society; National bureau of casualty and surety underwriters

Adjustment of claims

Late notice not excused where investigation did not include consultation of injured party. Weekly Underw 146:410 F 14 '42

Advertising

Insurance advertising is keeping pace with wartime trends and tempo. W. L. Clapp. East Underw 43:9+ pt 2 My 15 '42

Agents

Big turnout at Travelers Chicago agency meeting. Nat Underw 46:21+ Je 11 '42

Selling ideas for war time conditions; addresses at Chicago sales meeting of Aetna Casualty. Nat Underw 46:31 Ap 30 '42

Wartime selling; opportunities for commandos in the casualty and surety business. A. W. Spaulding. Ins Field (Fire ed) 71:20 Ag 6 '42; Same. East Underw 43:28 Jl 17 '42

Commissions

New boiler plan soon to be used; abstracts. A. Dodge. Nat Underw 46:17+ My 14 '42; East Underw 43:22-3 My 15 '42; Weekly Underw 146:1108+ My 16 '42

Service

Effective methods for servicing those who serve. T. J. Hogan. East Underw 43:34 F 13 '42

Coverage

Test yourself; casualty insurance quiz presented at Syracuse. R. L. Duffus. Ins Field (Fire ed) 71:16 My 21 '42

Excess policies

Value of excess market to agent. J. P. Gibson. Nat Underw 45:39 D 25 '41

Finance

Casualty insurance companies, business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:964-8 Ap 25 '42

Casualty premiums increase; figures for 1940 and 1941. Nat Underw 46:21 Ap 2 '42

Casualty-surety writings in New Jersey in 1941. East Underw 43:33-7 Mr 20 '42

Century indemnity company; analysis. Spectator (Property ed) 7:34-5 F 19 '42

Comparative financial and operating results of casualty companies for first six months ending June 30, 1942 and 1941; tabulation. Spectator (Property ed) 8:10 Ag 6 '42

Country wide experience of casualty companies; underwriting exhibit, 1941, for companies entered in New York. Nat Underw 46:21-2+ My 21 '42

Country-wide underwriting results, 1937-41, of companies licensed in New York state; tabulation by company. East Underw 43:5-7+, 11-12 pt 2 My 15 '42

Distribution of the casualty insurance earned-premium dollar; chart. Spectator (Property ed) 8:36 S 17 '42

Eureka casualty company; analysis. Spectator (Property ed) 7:38-9 Mr 5 '42

'41 casualty premiums; report of Connecticut department. Weekly Underw 147:1020 O 31 '42

General casualty company of America; analysis. Spectator (Property ed) 7:34-5 N 13 '41

Handy chart shows stock company casualty and surety premiums for 1941 increased by 15 percent over 1940. L. S. Fischer. Spectator (Property ed) 7:34+ Ap 2 '42

Illinois report covering 1941 operations shows comparison by types of carriers. Weekly Underw 146:1409 Je 20 '42

Insurance stocks; favorable casualty company operating experience in 1941. Comm & Fin Chr 155:1854 My 14 '42

Manufacturers' casualty company; analysis. Spectator (Property ed) 7:28-9, 36 Ap 2 '42

Metropolitan casualty insurance company of New York; analysis. Spectator (Property ed) 7:34-5 My 28 '42

National casualty company; analysis. Spectator (Property ed) 7:34-5+ D 11 '41

Net premiums and paid losses in 1941 in Alabama. Nat Underw 46:30 My 28 '42

Net premiums and paid losses in 1941 in California. Nat Underw 46:28, 30 Mr 12 '42

Net premiums and paid losses in 1941 in Florida. Nat Underw 46:32 My 28 '42

Net premiums and paid losses in Georgia in 1941. Nat Underw 46:26 My 7 '42

Net premiums and paid losses in 1941 in Illinois. Nat Underw 46:27-8 Ap 2 '42

Net premiums and paid losses in 1941 in Indiana. Nat Underw 46:30-1 Ap 2 '42

Net premiums and paid losses in 1941 in Iowa. Nat Underw 46:26-7 Ap 9 '42

Net premiums and paid losses in 1941 in Kansas. Nat Underw 46:29-30 Ap 30 '42

Net premiums and paid losses in 1941 in Michigan. Nat Underw 46:24+ Mr 26 '42

Net premiums and paid losses in 1941 in Minnesota. Nat Underw 46:30-1 Mr 19 '42

Net premiums and paid losses in 1941 in Missouri. Nat Underw 46:25-6 Mr 26 '42

Net premiums and paid losses in 1941 in New Jersey. Nat Underw 46:26-7 Mr 19 '42

Net premiums and paid losses in 1941 in New York. Nat Underw 46:30, 32 Mr 5 '42

Net premiums and paid losses in 1941 in Ohio. Nat Underw 46:23-4 Ap 9 '42

Net premiums and paid losses in 1941 in Pennsylvania. Nat Underw 46:32, 34 Mr 12 '42

Net premiums and paid losses in Texas in 1941. Nat Underw 46:17-18 Ag 13 '42

Net premiums and paid losses in West Virginia in 1941. Nat Underw 46:24 Ap 16 '42

Net premiums and paid losses in 1941 in Wisconsin. Nat Underw 46:29-30 Mr 26 '42

News of the casualty companies; annual statements, 1941. Nat Underw 46:28 Ja 29; 32 F 5; 26-7 F 12; 26 F 19; 25-8 F 26; 37-8+ Mr 5; 38-42 Mr 12; 35-6 Mr 19; 28 Mr 26 '42

1941 casualty-surety results of all companies for New York state; tabulation. East Underw 43:15, 17-19+ pt 2 My 15 '42

1941 operations of fire and casualty companies. Comm & Fin Chr 155:1694-5 Ap 30 '42

1941 underwriting and investment-exhibit; tabulation. Nat Underw 46:22+ Ap 2 '42

Pennsylvania casualty company; analysis. Spectator (Property ed) 7:26-9+ Ap 16 '42

INSURANCE, Casualty—Finance—*Continued*

Ranking of companies writing over $8,000,000. Nat Underw 46:25+ Mr 12 '42
Results of the operations of fire and casualty companies for the year ending Dec. 31, 1941, and comparisons with 1940. Spectator (Property ed) 7:18-19 F 19 '42
Traders and general insurance company; analysis. Spectator (Property ed) 7:36-7 Je 25 '42
Transactions of stock casualty and surety insurance companies in 1941. Spectator (Property ed) 8:12-14 Jl 23 '42

Policies

Insuring your business; casualty policies limit your liability and protect against many hazards. F. C. Crowell, jr. Barron's 22:8 O 5 '42
New light on the comprehensive DDD policy. W. H. McKinney. Spectator (Property ed) 7:22 Ja 8 '42
Package policy; Fidelity & Casualty amends dishonesty, disappearance and destruction policy; with chart showing coverages. W. J. LeMunyon. Ins Field (Fire ed) 71:17-19 My 21 '42; Same, without chart. East Underw 43:41 My 22 '42
Six casualty lines which offer producers tremendous selling possibilities. F. W. Potter. Weekly Underw 147:89 Jl 11 '42

Preventive work

Advertising in grim earnest to lessen accidents; Liberty mutual insurance company. B. Moore. il Ptr Ink 200:28+ S 11 '42
Carriers' part in war. R. L. Davis. East Underw 43:31 Ja 23 '42
Casualty engineers speed war production. T. McClusky. Ins Field (Fire ed) 71:18-19+ Ag 6 '42
National conservation bureau now in midst of vital wartime program. J. H. Harvey. East Underw 43:30 Ag 7 '42
Safe jobs save time; building transmission line through swampy, heavily wooded country; safety measures put into operation by engineer of casualty insurance company. A. W. Meinke. il Eng N 128:868-70 My 21 '42
Zurich's safety zone program given practical use by Minner & Barnett. East Underw 42:33 D 5 '41

Rates

Aspects of comprehensive insurance rating plan. C. J. Haugh. East Underw 43:34+ My 29 '42
Carriers get time to work out plan to avert rebating. Nat Underw 45:21 N 6 '41
Move to simplify statistics for rate making. Nat Underw 46:21+ Ap 9 '42
Ponder first principles of rate regulation; commissioners hear arguments. Nat Underw 45:23+ D 11 '41
War department's comprehensive insurance rating plan. W. L. Clapp. East Underw 42:91+ D 12 '41
War department's comprehensive rating plan. East Underw 42:56+ D 12 '41; Same. Management R 31:30-1 Ja '42

See also
Contracts, Government—Insurance aspects

Reinsurance

Country-wide experience, 1937-41, of the reinsurance companies licensed in New York state; tabulation. East Underw 43:12 pt 2 My 15 '42
Modus operandi of casualty companies regarding placing re-insurance perplexes. Weekly Underw 146:904 Ap 18 '42
Reinsurers in casualty field in first class shape. Nat Underw 45:17, 38 D 25 '41

Renewal certificates

Continuation certificate of Hartford Accident & Indemnity wins approval. Weekly Underw 146:440 F 21 '42; East Underw 43:33 F 20 '42; Nat Underw 46:19+ F 19 '42
New Amsterdam and U.S. Casualty now use certificates extensively. Nat Underw 46:21 F 26 '42
Style of continuation certificate, Hartford accident and indemnity company. Nat Underw 46:40 Mr 5 '42

Risks

Extra demands on industries; companies find it necessary to strengthen inspection service. Nat Underw 46:28 F 19 '42

Statistics

Move to simplify statistics for rate making. Nat Underw 46:21+ Ap 9 '42
Summary of casualty and surety premiums by states in 1940. Spectator (Property ed) 7:33 D 25 '41

Study and teaching

Carleton Fisher will lead casualty course. East Underw 42:32 D 26 '41
Casualty and liability, course no. 3. E. W. Sawyer. Weekly Underw 146:193-4, 204-5, 443-5+, 676-9, 916-18, 1126-8, 1411-12; 147:139-41, 335-7, 460-3, 685-7, 934-6, 1198-1200, 1446-8 Ja 17, F 21, Mr 21, Ap 18, My 16, Je 20, Jl 18, Ag 15-29, S 19, O 17, N 21, D 19 '42 (to be cont)

War risks

Agents seek clearer interpretation of war risk exclusion clauses. East Underw 43:38+ Ap 17 '42
Casualty pool to write war damage on securities. Nat Underw 46:17 S 3 '42
Casualty war action. E. W. Sawyer. Weekly Underw 146:1354-6 Je 13 '42
Cites British methods as a pattern; federal legislation on personal injuries due to war work is necessary. J. D. Dorsett. East Underw 43:31+ Mr 27 '42
Some casualty lines affected by war. Nat Underw 45:19 D 25 '41
Watch blackout, sabotage effects. Nat Underw 45:19+ D 18 '41

New Jersey

1941 production trends and outlook surveyed in Newark area. W. L. Clapp. East Underw 43:28 Ja 23 '42

New York (state)

1941 casualty-surety results of all companies for New York state; tabulation. East Underw 43:15, 17-19+ pt 2 My 15 '42

Southeastern states

Results of southern operations in 1941. Weekly Underw 146:84-5 Ja 3 '42

United States

Casualty year seen as marking end of era; cost-plus-a-fixed fee plan outstanding influence. Ins Field (Fire ed) 70:11-13 D 25 '41

INSURANCE, Child. See Insurance, Life—Children's policies

INSURANCE, Cold storage locker
Cold storage locker insurance is in demand. Nat Underw 46:16A O 1 '42

INSURANCE, Commercial travelers floater policy. See Insurance, Inland marine—Policies

INSURANCE, Compulsory
Compulsory health-insurance law adopted by Rhode Island. Monthly Labor R 55:101-2 Jl '42
Compulsory health insurance, pro and con. E. J. Faulkner. il Spectator (Life ed) 147:6-9+ D 4 '41; Abstract. Nat Underw 45:17+ N 27 '41
Health insurance; Rhode Island compulsory system for workers. Business Week p76-7 Jl 11 '42
Insurance and the auto victim. J. Chamberlain. il Spectator (Property ed) 7:10-12+ N 27 '41
Opens fight on compulsory health insurance. J. R. Garrett. East Underw 43:48 S 25 '42
Taxes under Eliot bill would be $6,000,000,000 annually; objective of Insurance economics society. W. G. Curtis. Weekly Underw 147:959+ O 24 '42

INSURANCE, Cooperative

See also

Benefit societies

INSURANCE, Corn

Removes insurance requirement on mortgaged corn; Commodity credit corporation ruling. Nat Underw 45:3+ D 4 '41

INSURANCE, Cotton

S.E.U.A. promulgates cotton endorsements. Ins Field (Fire ed) 71:12 Ja 29 '42; Nat Underw 46:11 Ja 29 '42

Southern agents hit by loss of loan agency covers. Nat Underw 46:8 Ja 22 '42

U.S. drops cover on acquired cotton and naval stores. Nat Underw 46:33 Ja 15 '42

INSURANCE, Crane. See Insurance, Inland marine—Policies

INSURANCE, Credit

Benefits of 1942 credit expansion. C. T. Hubbard. Weekly Underw 146:26+ Ja 3 '42

Credit insurance gains, outlook bright for 1942. Nat Underw 46:21+ Ja 15 '42

Supply and labor problems enhance credit cover need. P. M. Millians. Nat Underw 46:22 Ap 30 '42

Great Britain

Export risk insurance; a survey of existing facilities. Elec R (Lond) 130:610 My 8 '42

INSURANCE, Crop. See Insurance, Agricultural

INSURANCE, Deferred payment

See also Insurance, Automobile—Financed automobiles

INSURANCE, Disability

Features of non-occupational cover of Provident life & accident, Chattanooga. Weekly Underw 146:1408 Je 20 '42

Federal health scheme wouldn't aid in war effort. J. M. Powell. Nat Underw (H. & A. conference no) 46:4+ My 29 '42

Force-fed security; proposals for federal disability insurance. H. J. Requartte. East Underw 43:37 My 29 '42

Government disability proposals. H. R. Gordon. Weekly Underw 146:645+ Mr 21 '42; Abstracts. East Underw 43:28-9+ Mr 20 '42; Nat Underw 46:23+ Mr 19 '42

U.S. disability move to be made soon. H. R. Gordon. Nat Underw 46:19+ Jl 2 '42

Views on government disability. W. R. Williamson. East Underw 43:8 My 22 '42; Same. Nat Underw 46:32 My 21 '42

See also

Insurance, Accident

Insurance, Health

Insurance, Hospitalization

Insurance, Life—Disability provisions

Adjustment of claims

Appellate division of the Supreme court rules on disability provisions; ownership and engagement in business. Weekly Underw 147:135 Jl 18 '42

Delay in making settlement of claim under sickness policy does not render insurer liable for consequential damages. Weekly Underw 146:1250 My 30 '42

Performance by insured of substantial duties of occupation bars recovery of disability benefits. Weekly Underw 146:693 Mr 21 '42

INSURANCE, Employers' liability

Private residence liability; medical aid coverage written under two forms. East Underw 43:30 Ja 9 '42

See also

Insurance, Workmen's compensation

Aviation risks

Employers aviation indemnity. Spectator (Property ed) 7:26 F 19 '42

INSURANCE, Engineering. See Insurance, Power plant

INSURANCE, Explosion

Assured wins $376,000 verdict in explosion issue; Lever brothers company. Nat Underw 45:8 D 11 '41

INSURANCE, Extra expense

See also Insurance, Additional living expense

INSURANCE, Fidelity. See Insurance, Surety and fidelity

INSURANCE, Fire

Companies spare no effort to protect property; era of underwriting profit. P. B. Sommers. East Underw 43:22 Ja 16 '42

Difficulties involved in handling unmeasurable hazard; reviews fire underwriting; abstracts. W. G. Rich. Weekly Underw 146:517+ Mr 7 '42; Nat Underw 46:5+ Mr 5 '42

Fire insurance educator; fire, marine. 262p $2 Underwriter ptg. and pub. co, New York '41

Insuring your business; a wide variety of policies protect against fire and related risks. F. C. Crowell, jr. Barron's 22:9 Ag 31 '42

National board warns hoarders of gasoline. Weekly Underw 146:772 Ap 4 '42

New England agents and company heads confer on coverages; improve fire insurance for the public. H. W. Hatch. East Underw 43:1+ O 23 '42

Pleads for practical, factual handling of interstate commerce. V. L. Gallagher. Nat Underw 46:2 Ja 15 '42; Same. East Underw 43:17+ Ja 16 '42

Story of the Business development office. D. Porter. Ins Field (Fire ed) 71:20-3 Mr 19; 20-2 Mr 26 '42

True nature of organization activity. W. N. Achenbach. Nat Underw 46:1 Jl 9 '42

U.S. Steel places $1,000,000,000 line with stock carriers; alters self-insurance plan. East Underw 43:1+ Mr 13 '42

What about your fire insurance? it should fit tempo of war production. T. V. Ponder. Credit & Fin Management 44:17-18+ F '42

What price mutuals? E. Middleton. Ins Field (Fire ed) 71:18-20 Je 18 '42

See also

Insurance, Inland marine

Insurance, Marine

Insurance, Use and occupancy

also National board of fire underwriters

Adjustment of claims

Adjuster cannot extend assured's time for suit. East Underw 43:18 Ja 2 '42

Adjuster-fire chief cooperation on large losses. Nat Underw 45:4 N 27 '41

Adjustment of losses. R. G. Bachman. Weekly Underw 147:1068-71 N 7 '42

Agent cannot waive occupation warranty by agreement with assured. East Underw 43:21 Jl 31 '42

Appraisal work O.K. but public adjusting violates laws, R.I. court holds. Nat Underw 46:11 My 28 '42

Assured held to have complied sufficiently with record warranty. East Underw 43:22 S 11 '42

Bank with attachment execution held entitled to proceeds of fire loss. East Underw 43:20 Jl 24 '42

Cash discounts held deductible in loss settlement on stock. Nat Underw 46:5 Ja 29 '42

Court rules on application of pro rata contribution clause. East Underw 43:22 Jl 3 '42

Dearborn National suit; company denied pretrial examination. Weekly Underw 147:554 S 12 '42

1872-1942 bridged by John Jay E. Rothery; adjusted Boston fire losses. Weekly Underw 147:620+ S 19 '42

Failure to cancel after notice renders provision against other insurance unavailable as defense. Weekly Underw 147:898 O 10 '42

Four-square; instance of the best type of public relations for an insurance company. E. L. Scott. Ins Field (Fire ed) 71:18-19 Jl 30 '42

Freak flood claim is compromised in Cincinnati. Nat Underw 45:13 D 11 '41

Holds court erred in barring evidence of false swearing. East Underw 42:17 D 5 '41

INSURANCE, Fire—Adjustment of claims— *Continued*

How defense program affects fire loss adjustments. F. L. Erion. East Underw 42:17 D 26 '41

How Equitable Fire & Marine weathered the Boston fire. il Weekly Underw 147:606, 608 S 19 '42

Insurable interest in church building defined by Massachusetts court. East Underw 43:24 Ap 10 '42

Insurer not liable if assured has deprived it of subrogation rights. East Underw 43:21 Ag 28 '42

Limitation period starts from time suit may be brought, not date of fire as provided in policy. Weekly Underw 147:106 Jl 11 '42

Loss adjustments reflect insurance problems of war. J. H. Burlingame, jr. Nat Underw 46:2 My 21 '42

Minnesota court holds Hartford Fire liable; agents neglected to correct policy when property changed hands. East Underw 42:20 D 19 '41

No recovery through insured by parties not mentioned in policy. East Underw 43:30 F 20 '42

"Occupied as dwelling" is held not to be warranty. East Underw 43:30 F 20 '42

Other insurance clause of specific insurance on merchandise and fixtures held not violated by excess cover. Weekly Underw 147:430 Ag 22 '42

Ownership of personal property; a digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-7 Ja 22 '42

Pay coal fire and U. & O. losses; Mead coal co. East Underw 42:28 D 26 '41

Policy provision for examination of insured before trial upheld. East Underw 43:26 Je 19 '42

Policy void for violation of vacancy clause and misdescription of risk. East Underw 43:20 Jl 24 '42

Secretary's fraudulent inclusion in proofs of loss of articles not burned in fire held not binding on insured. Weekly Underw 145:1214 N 22 '41

Subrogation under fire policies; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:22-4 O 29 '42

Sues for extra expense entailed by building code. Nat Underw 46:14 Ap 16 '42

Vendor can recover only through insured; has no separate rights. East Underw 43:26 Jl 24 '42

Vendor held not sole and unconditional owner although deed mistakenly failed to describe property sold. Weekly Underw 147:55 Jl 4 '42

Advertising

Find out what dealers don't like about your advertising! policy of fire insurance advertising manager. J. W. Mason. Ptr Ink 199:23-4+ My 1 '42

How advertising can build business. R. P. Barbour. Weekly Underw 146:24+ Ja 3 '42

Agents

Agent's obligation to an insured after loss. M. G. Wight. East Underw 43:22 O 30 '42

1872-1942 bridged by John Jay E. Rothery; adjusted Boston fire losses. Weekly Underw 147:620+ S 19 '42

Fire and allied lines; guide for local agent's 1942 sales efforts. W. J. Traynor. Ins Field (Fire ed) 70:18-19 D 25 '41

Fire people should push war damage with vim. R. W. Carter. Nat Underw 46:3 S 24 '42

N.Y. Dept. not to act on broker-agent rule. East Underw 43:17 O 30 '42

Public services of capital stock fire insurance; talk at Ohio banquet. H. K. Schaufler. Nat Underw 46:13+ O 22 '42

Time to sell three-year policies is now when money is plentiful. East Underw 42:27 N 14 '41

War damage insurance helps agents. C. W. Carpenter. Ins Field (Chicago Conv Daily ed) 71:4-5 S 23 '42

Watch clients' needs, National Fire urges. Weekly Underw 146:176 Ja 17 '42

Agency system

Work of general agencies. F. J. Pelletier. Weekly Underw 146:590 Mr 14 '42

Commissions

Chicago brokers protest plan to cut commission. Nat Underw 46:9 Ag 6 '42

Independents take issue with Canadian underwriters association agency contract. Nat Underw 46:31 S 3 '42; East Underw 43:22 S 11 '42

Long, Lane, Phillips go to Texas on commission problem. Nat Underw 46:3 Ap 9 '42

Majority and minority opinions in Northwestern National case. East Underw 43:22 Ag 14 '42; Nat Underw 46:2 Ag 13 '42

Much concern felt over commissions in Texas domain. Nat Underw 46:1+ Ja 15; 1+ Ja 22; 34-5 Ja 29; 5 F 5 '42

Much confusion in Texas conditions due to state order. Nat Underw 46:1+ Ag 6 '42

Pink loses decision in commission case of Northwestern National. East Underw 43:14 Jl 31 '42; Nat Underw 46:2 Ag 6 '42

Texas commission issue now squarely up to department. Nat Underw 46:6+ My 28 '42

Texas officials take stern stand on commissions. Nat Underw 46:5 F 12 '42

Service

Local agent and inspections. A. H. Case. Ins Field (Fire ed) 71:18-19 Ap 9 '42

Women agents

First forty years. M. M. Mummert. por Ins Field (Fire ed) 71:23-4 S 10 '42

Women begin classes in fire underwriting. Weekly Underw 147:1058 N 7 '42; Same. East Underw 43:17 O 30 '42

Cancellation

Mortgagees, finance companies at odds on return premiums. Nat Underw 45:3 N 6 '41

County policies

Insuring property of county in state fund; ruling by Attorney General of Wisconsin. Weekly Underw 145:1064 N 8 '41

Coverage

Armed allied plane loss seen as only gap. H. C. Conick. Nat Underw 46:4 N 5 '42

Suggestions made to remove all gaps in war damage coverage. East Underw 43:1+ N 6 '42; Nat Underw 46:1+ N 5 '42; Weekly Underw 147:1049+ N 7 '42

War risk fire insurance problems studied at American bar association meeting; abstracts. J. S. Foster. East Underw 43:15 Ag 28 '42; Weekly Underw 147:444-6 Ag 29 '42

See also Insurance, Fire—Policies—Extended coverage endorsements

Demolition and replacement policies

New coverages in New York; exchange forms for contingent liability and depreciation or replacement cost. East Underw 43:25 O 23 '42

Farm policies

Advice to rural agents. B. R. Walinder. Ins Field (Fire ed) 71:26-7 Je 4 '42

Farm opportunities. R. W. Carter. Nat Underw 45:4 N 13 '41

Farm term rule now conforms to recording practice in Middle West. Nat Underw 46:4 O 8 '42

Favors 3-point extended cover contract for local farm mutual insurers. V. N. Valgren. Nat Underw 45:11 N 27 '41

Important farm changes in Indiana. Nat Underw 46:4+ Je 25 '42

Local agent and inspections. A. H. Case. Ins Field (Fire ed) 71:18-19 Ap 9 '42

Make important changes in Illinois farm schedules. Nat Underw 46:27 S 3 '42

Opportunity for farm agents to aid in the war. D. Smith. Nat Underw 46:3+ Je 25 '42

Real opportunity exists for writing farm covers. Nat Underw 46:2 Jl 30 '42

INSURANCE, Fire—Farm policies—*Continued*

Seventy-five per cent of farm properties insured in mutuals in Maryland. East Underw 43:25 Ap 10 '42

Several changes made in Kansas farm schedule. Nat Underw 46:27 O 8 '42

Sweeping farm rate and form changes in Oregon. Nat Underw 46:30 S 3 '42

Finance

Aggregate results of 1941 operations. Nat Underw 46:2+ Mr 12 '42

Automobile premiums of fire companies, 1938-1941. East Underw 43:31-3, 34, 36, 38 Ap 24 '42

B.D.O.'s 1942 supplement. Ins Field (Fire ed) 71:18-19 Jl 23 '42

Comparative financial and operating results of fire companies for first six months ending June 30, 1942 and 1941; tabulation. Spectator (Property ed) 8:10 Ag 6 '42

Connecticut reports upward fire loss trend, 1941 report. Weekly Underw 147:1011 O 31 '42

Distribution of the stock fire insurance earned-premium dollar; chart. Spectator (Property ed) 8:32 S 17 '42

Domestic and alien fire insurance companies, business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:890-7 Ap 18 '42

Fire insurance earnings up in 1941. E. A. Van Deusen. Barron's 22:18 F 9 '42

Fire insurance experience study of 1941 is made by New York department. Nat Underw 46:3-4+ Jl 30 '42

Illinois 1941 fire premiums, losses. Nat Underw 46:8 Ap 30 '42

Merchants fire insurance company, Denver; analysis. Spectator (Property ed) 8:34-5 O 15 '42

Millers Mutual of Alton report on examination. Nat Underw 46:8 Ja 22 '42

Nation-wide fire insurance net premiums and losses paid in 1941, by company. East Underw 43:22 Mr 6 '42

New Jersey 1941 fire experience; tabulation. Nat Underw 46:10+ Mr 19 '42

N.Y. state experience of fire insurers, 1941. Nat Underw 46:20+ Mr 5 '42

New York state fire insurance net premiums; losses incurred in 1941; tabulation by company. East Underw 43:26 Mr 6 '42

1941 fire experience satisfactory. F. B. Simpson. Weekly Underw 146:19+ Ja 3 '42

1941 New Jersey fire insurance net premiums and losses incurred. East Underw 43:16+ Mr 13 '42; Correction. 43:26 Mr 27 '42

1941 operations of fire and casualty companies. Comm & Fin Chr 155:1694-5 Ap 30 '42

Northern insurance company of New York; analysis. Spectator (Property ed) 7:30-1 Ja 22 '42

Pacific national fire insurance company, San Francisco; analysis. Spectator (Property ed) 7:30-1 N 27 '41

Piedmont fire insurance company; analysis. Spectator (Property ed) 7:30-1 F 5 '42

Premiums and losses by classes, 1941 experience; tabulation. Weekly Underw 146: 538-42, 598-9, 656 Mr 7-21 '42

Premiums and losses for fire and allied lines tabulated by the B.D.O. Ins Field (Fire ed) 70:20-1 N 27 '41; East Underw 42:19 N 28 '41; Nat Underw 45:1+ N 27 '41

Ranking of stock companies by premiums, assets, surplus. Nat Underw 46:3-4 Mr 5 '42

Record of fire reinsurers in U.S. in 1940 analyzed; tabulation. Nat Underw 45:32 D 25 '41

Results of the operations of fire companies for the year ending Dec. 31, 1941, and comparisons with 1940; tabulation. Spectator (Property ed) 7:18-19 F 19; 18 Mr 5 '42

Specialty lines of fire companies generally show higher premiums. East Underw 43: 18+ Mr 6 '42

Statistical record of fire insurance in 1941; analysis of operations of 273 stock companies. Spectator (Property ed) 7:11-16 Ap 2 '42

Stock fire experience in 1940 for N.Y. city and rest of state. East Underw 42:26 N 21 '41

Stock fire 1941 experience by lines from Argus chart; tabulation. Nat Underw 46: 13-15 Mr 12 '42

Tennessee 1941 results of fire companies; tabulation. Nat Underw 46:13 Mr 19 '42

Total premiums and losses all classes, 1941 experience; fire companies; tabulation. Weekly Underw 146:716 Mr 28 '42

Underwriting and investment profits and losses in 1941; record of 100 leading companies as reported to New York insurance department; tabulation. Spectator (Property ed) 7:12-17 Je 25 '42

Underwriting and investment profits and losses of 100 leading fire insurance companies in a decade, 1932-1941; tabulation. Spectator (Property ed) 8:12-13 Ag 6 '42

Fraudulent claims

Bare fraud in hotel fire loss litigation. East Underw 43:18 Ja 2 '42; Nat Underw 46:13 Ja 22 '42

Minnesota attempt to defraud law held constitutional. East Underw 43:24 F 27 '42

Secretary's fraudulent inclusion in proofs of loss of articles not burned in fire held not binding on insured. Weekly Underw 145: 1214 N 22 '41

Trial court's findings on fraud sustained by U.S. Court of appeals. East Underw 43:23 My 15 '42

Fraudulent statements

Holds court erred in barring evidence of false swearing. East Underw 42:17 D 5 '41

General cover contract

See Insurance, Fire—Multiple location policies

Government investigation

Amazed by United States investigation of fire insurance. T. I. Parkinson. East Underw 43:1+ O 9 '42

Anti-trust action boils up in Missouri; Attorney-General McKittrick charges Congressman Ploeser tried to block federal delve. Weekly Underw 147:357+ Ag 22 '42

Antitrust division astir. L. S. McCombs. Spectator (Property ed) 8:31 Jl 23 '42

Atlanta grand jury to hear U.S. insurance case. R. B. Mitchell. Nat Underw 46:1 Ag 6 '42

Challenge to American agency system. W. R. Thomas. Ins Field (Fire ed) 71:19-20 Ag 20 '42; Abstracts. East Underw 43:1+ Ag 21 '42; Nat Underw 46:2+ Ag 20 '42

Declare federal delve not witch hunt. Weekly Underw 147:313+ Ag 15 '42

Discount rumors of U.S. probe of fire insurance. Nat Underw 46:8 Jl 30 '42

Federal investigation jeopardizes complete cooperation. E. W. Sawyer. East Underw 43:24 Ag 28 '42

Federal investigation underway at Atlanta. J. B. Hosmer. Ins Field (Fire ed) 71:7+ O 8 '42

Federal probe jury impanelled at Atlanta. East Underw 43:24 O 9 '42

Fire rate probe. Business Week p94-5+ Ag 15 '42

Gives his views regarding federal probe at Atlanta. J. S. Williams. Nat Underw 46:1 N 5 '42; Same abr. Nat Underw (Life ed) 46:3+ N 6 '42

Government busy on fire insurance probe. Weekly Underw 147:209+ Ag 1 '42; East Underw 43:23 Jl 31 '42

Hit at rates and practices of fire companies. Nat Underw 46:1+ Mr 12 '42

Inquiry hinges on use of agreements. J. B. Hosmer. Ins Field (Fire ed) 71:7 S 3 '42

Inside story of call to Atlanta. D. A. Porter. Ins Field (Fire ed) 71:7-8+ S 17 '42

Insurance stocks; Justice department anti-trust division investigation of fire and marine insurance companies. G. P. Comer. Comm & Fin Chr 155:1326 Ap 2 '42

Interview on Atlanta probe. R. L. Hyder. Nat Underw 46:5 S 3 '42

INSURANCE, Fire—Government investigation —*Continued*

Investigation of 300 companies, 13 groups announced by Attorney-General Arnold. Ins Field (Fire ed) 71:7-9+ Ag 13 '42

Letter to Uncle Sam. F. L. Brokaw. Weekly Underw 147:662-3 S 19 '42

Marching to Georgia; fire insurance eyes turn toward Atlanta as federal probe impends. W. E. Roesch. Spectator (Property ed) 8:10-13+ S 3 '42

Orchids to Ploeser in bout with McKittrick. D. Porter. Ins Field (Fire ed) 71:8 Ag 27 '42

Our business under fire. E. L. Scott. Ins Field (Fire ed) 71:24 S 24 '42

Prepare for Atlanta grand jury probe. Nat Underw 46:1+ Ag 13 '42

Special committee is requested on federal probe; scope of investigation. Nat Underw 46:36 S 24 '42

U.S. ready to probe business at Atlanta. Weekly Underw 147:796 O 3 '42

Washington reports indicate preliminaries to start fire company probe are near completion. D. Porter. Ins Field (Fire ed) 71:7-8+ Jl 30 '42

What about the investigation? E. Johnson. Ins Field (Fire ed) 71:22-3 O 1 '42

History

How Equitable Fire & Marine weathered the Boston fire. il Weekly Underw 147:606, 608 S 19 '42

Volunteer fire company forerunner of insurance companies. F. L. Brokaw. Weekly Underw 146:1438+ Je 27 '42

Home owners' loan corporation contract

Adverse ruling on HOLC in Ohio. Nat Underw 45:8 D 11 '41

Approves SCA-HOLC pact; Minnesota official calls instrument valid. East Underw 43:22 Mr 27 '42

H.O.L.C. agreement disapproved in Iowa. Weekly Underw 145:1334 D 13 '41

Utah Attorney-General gives nod to HOLC pact; situation in Nebraska. Nat Underw 45:6 D 18 '41

Virginia corporation commission issues informal ruling holding agreement illegal. East Underw 42:24 N 21 '41

Improvement and betterment policies

Improvements and betterment insurance and how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:20-1 Ap 23 '42

Instalment premiums

Virginia acts on industrial cover; orders Home to cease writing weekly premium business. Nat Underw 46:5 Ap 16 '42

Investments

Conservation urged in fire co. investments. J. A. Clark. East Underw 42:36 N 7 '41

Losses

Canadian fire loss up 23% in 1941. Nat Underw 46:6 My 28 '42

Losses in 1941 5.18 per cent higher than during 1940. Nat Underw 46:1 Ja 22 '42

1941 fire experience satisfactory. F. B. Simpson. Weekly Underw 146:19+ Ja 3 '42

Significant facts in $625,000 warehouse loss. Nat Underw 46:2 Ja 22 '42

Tabulation of losses in great Boston fire. Weekly Underw 147:642+ S 19 '42

Moral hazard

Caution used in handling risks hit by auto curb, priorities, etc. Nat Underw 46:10 F 5 '42

Credit in the insurance business. D. C. Campbell. Credit & Fin Management 43:20-1 D '41

Mortagee interest

Bank with attachment execution held entitled to proceeds of fire loss. East Underw 43:20 Jl 24 '42

FHA mortgagees can't make agents show authority. Nat Underw 45:8 D 18 '41

Mortgagees, finance companies at odds on return premiums. Nat Underw 45:3 N 6 '41

New loss payable clause; New York department approves use. East Underw 42:22 D 26 '41; Weekly Underw 146:38 Ja 3 '42

Ponder problem of war risk cover on mortgagee interest. Nat Underw 46:4+ Je 25 '42; Same. Nat Underw (Life ed) 46:4 Je 26 '42

Multiple location policies

California dep't. questionnaire on multiple location fire risks; text. East Underw 42:20+ D 5 '41

Handling reporting covers today. C. T. Hubbard. Ins Field (Fire ed) 71:18-19 N 5 '42

Interstate risk situation viewed; Western conference of insurance commissioners. Nat Underw 46:8 Mr 12 '42

I.U.B. drops separate form for seasonal risks. Nat Underw 46:3+ Mr 5 '42; Same abr. East Underw 43:20 Mr 13 '42

Multiple location quiz in California; department demands data on practices in interstate risks. Nat Underw 45:1+ N 13 '41

Nationwide rating proposal; suggestion of New York department in connection with report on I.U.B. Nat Underw 46:3 Ag 20 '42; East Underw 43:1+ Ag 14 '42

Pointers in general cover field. Nat Underw 45:25 D 25 '41

Stock in manufacturing risks under single state reporting form. Weekly Underw 146:1114 My 16 '42

Municipal policies

Insurance on municipal properties. J. J. Holmes and J. D. Kelly. Weekly Underw 147:802-5 O 3 '42

Self-insurance is vetoed in St Louis. Nat Underw 46:3 Jl 9 '42

Policies

Agger takes action on N.J. policy revision. East Underw 43:16 Ag 7 '42

Benefits of 1942 credit expansion; open accounts fire policy. C. T. Hubbard. Weekly Underw 146:26+ Ja 3 '42

Canada non-tariff companies accused of piracy in forms. Nat Underw 46:2+ Je 11 '42

Canadian dwelling policy greatly broadened; slash in rates. Nat Underw 46:6 Ap 16 '42

Change war clause in reporting New York revised policy. Nat Underw 46:5 Ap 16 '42; East Underw 43:20 Ap 17 '42

Exposition of proposed New York standard fire policy. Ins Field (Fire ed) 71:8-9+ Ap 9 '42

Lehman signs new policy bill. Nat Underw 46:3 My 28 '42; East Underw 43:18 My 29 '42

Massachusetts makes non-assessable rules. Weekly Underw 146:879+ Ap 18 '42

New fire policy bill in N.Y. legislature. East Underw 43:20 Ap 3 '42; Nat Underw 46:4+ Ap 9 '42

New Pacific Coast situation on civil authority clause. Nat Underw 46:8 Mr 12 '42

New SEUA forms embody labor saving ideas. Nat Underw 46:4+ S 24 '42

New standard fire policy passes New York legislature. Nat Underw 46:1+, 6 Ap 30 '42; Same abr. Weekly Underw 146:992-3 My 2 '42

N.Y. standard fire policy (proposed revision). Spectator (Property ed) 7:22-3 Ap 16; 26-7 Ap 30 '42

Pink hails passage in New York legislature of fire policy bill. East Underw 43:1+ My 1 '42

Sees supplemental form covering military plane damage; favors simplified dwelling fire policy; abstracts. L. A. Watson. East Underw 43:21+ Mr 27 '42; Nat Underw 46:4+ Mr 26 '42

Several important changes in Florida dwelling form. Nat Underw 46:46 Mr 12 '42

Short form policy announced by Uniform. Nat Underw 46:33 F 26 '42

Southeastern underwriters assn. promulgates numerous changes in rules and regulations. Nat Underw 46:16 Ap 16 '42

INSURANCE, Fire—Policies—*Continued*

War time standard time. S. Levin. East Underw 43:22 Mr 27 '42

See also

Insurance, Fire—Farm policies
Insurance, Fire—Multiple location policies
Insurance, Fire—Public buildings policies

Extended coverage endorsements

American outlines position on war, plane crash losses. Nat Underw 46:3 O 8 '42
Analyzes extended cover; good for mortgagee and mortgagor. C. A. Dupuis. East Underw 43:18 My 8 '42
Believe extended coverage includes army practice; damage from practice gun fire. Nat Underw 45:10 N 6 '41
Extended coverage changes on Coast; first brought out by Explosion conference. Nat Underw 46:33 Ja 15 '42
Extended coverage today. W. E. Mallalieu, jr. Ins Field (Fire ed) 71:23-7 Mr 26 '42
Glens Falls' plane crash cover broad. Nat Underw 46:11 N 5 '42
Houston accident accents question of plane cover. Nat Underw 46:1 Ag 27 '42
New extended coverage rules for Pacific sprinkled risks. Nat Underw 46:5 My 7 '42
New war risk exclusion clause in Midwest. Nat Underw 46:6 Ja 8 '42
Sees supplemental form covering military plane damage. L. A. Watson. East Underw 43:21+ Mr 27 '42
Vandalism and war form, rate changes. East Underw 42:81 D 12 '41
Vandalism changes applied to extended cover in New York. Nat Underw 45:6 D 18 '41
War risk exclusion clauses. C. Partridge. Nat Underw 46:30 Ja 8 '42

Policy dividends

Sees movement of mutuals to cut dividends. F. T. Moses. Nat Underw 45:5 D 25 '41

Premium financing

Mortgagees, finance companies at odds on return premiums. Nat Underw 45:3 N 6 '41
New York department report on financed premiums. East Underw 43:24+ O 9 '42; Nat Underw 46:6 O 8 '42

Premiums, Payment of

Exchange cites violations in paying premium by note. East Underw 43:22 Mr 13 '42
Indiana ban on installment payment of term premium. Nat Underw 46:11 Ja 29 '42

Preventive work

Aid farm fire prevention plan; agent-field man support. Nat Underw 46:1 Jl 30 '42
Fire prevention projects of Ohioans. Nat Underw 46:13+ O 22 '42
Fire prevention work intensified by critical war conditions in nation. H. R. Mann. East Underw 43:26 O 2 '42
How advertising can build business. R. P. Barbour. Weekly Underw 146:24+ Ja 3 '42
Pearl sends out Schwarz article on sabotage. East Underw 43:32 O 9 '42
Protect war resources, National Board urges; booklets suggest ways of safeguarding plants. Weekly Underw 146:1161 My 23 '42
So you have to make a speech; a talk to business men. J. W. Mundus. Ins Field (Fire ed) 71:16-17+ My 14 '42; Excerpts. East Underw 43:20 My 15 '42
Some companies are now arranging for greater spread. Nat Underw 46:4 Mr 19 '42
Sound film issued by National board. East Underw 43:18 S 4 '42
Urge agents to join in rural fire prevention. East Underw 43:24 Je 19 '42; Weekly Underw 147:13 Jl 4 '42
War gives added impetus to fire prevention week. Nat Underw 46:1+ O 8 '42
War time hazards pointed out in pamphlet of Millers National-Illinois fire group. Nat Underw 46:7 Ap 23 '42
Work with armed forces; advisory fire protection and prevention services of National board. C. F. Shallcross. East Underw 43:20 My 29 '42

Public buildings policies

Court holds insurer not liable for building itself as it had been abandoned for school purposes. East Underw 43:16 Jl 31 '42

Rates

Ask 10% lower rates on DPC risks; 5% commission. J. W. Snyder. Nat Underw 46:1+ O 8 '42
Battle in Texas over $5 minimum premium. Nat Underw 45:11 D 4 '41
Berry wants breakdown of experience figures by companies operating in Michigan. East Underw 43:22 F 13 '42
Canada rates undergo overhauling process. East Underw 43:19 F 27 '42
Canadian underwriters association action will strengthen position of members. E. A. Brownell. East Underw 43:24 Mr 6 '42
Certain flaws found in interpretations made by article in Time on insurance. Ins Field (Fire ed) 71:9 Mr 26 '42
Companies accept Michigan rate cut. Nat Underw 46:5 Ap 2 '42
Companies file rate cuts; statement by Missouri superintendent. Ins Field (Fire ed) 71:11 O 15 '42
Efforts to prevent rate war in Canada reported under way. East Underw 43:1+ F 20 '42; Nat Underw 46:3+ F 19 '42; Correction. 46:21 Mr 12 '42
Experience data to be required; Michigan hearing concluded. Nat Underw 45:1 N 27 '41
Fire insurance cost declining, 1900-1940; chart. Spectator (Property ed) 8:13 Jl 9 '42
Fire insurance rates drop; graph showing average rates in the United States 1900-1941. Spectator (Property ed) 8:25 S 17 '42
Fire premium reduction urged at U.S. hearing. Ins Field (Fire ed) 71:11 Mr 12 '42; Nat Underw 46:1+ Mr 12 '42
Fireproof mercantile schedules cut in N.Y. East Underw 42:18 N 21 '41
Important farm changes in Indiana. Nat Underw 46:4+ Je 25 '42
Influence of public and private protection on fire insurance. A. C. Hutson. Weekly Underw 145:1287-8; 146:53, 330, 544-5, 1004-5, 1283; 147:28+, 227, 500 D 6 '41, Ja 3, F 7, Mr 7, My 2, Je 6, Jl 4, Ag 1, S 5 '42
Inspection bureau work. C. W. Soderstrom. Nat Underw 46:5 F 26 '42
Interstate risk study by western officials pondered. Nat Underw 46:3+ Je 18 '42
Michigan rating commission orders fire rates cut in cities with full-time fire depts. Ins Field (Fire ed) 71:7 Mr 26 '42; Nat Underw 46:5 Mr 26 '42
Much confusion in Texas conditions due to state order. Nat Underw 46:1+ Ag 6 '42; Same abr. East Underw 43:18 Ag 7 '42
Nationwide rating proposal; suggestion of New York department in connection with report on I.U.B. Nat Underw 46:3 Ag 20 '42; East Underw 43:1+ Ag 14 '42
New rulings in connection with revised fireproof mercantile schedule. East Underw 42:17 D 5 '41
R. D. Hobbs presents strong testimony at Michigan hearing; other opinions. Nat Underw 45:3+ N 20 '41
Show-down skirmish expected in Canada. D. Porter. Ins Field (Fire ed) 71:8-9 Ja 29 '42
Simplification in rating fire risks. W. J. Ward. East Underw 43:1+ Mr 6 '42
$600,000 cut in Missouri rates ordered by superintendent; fire and windstorm business. Ins Field (Fire ed) 71:14 O 8 '42; Nat Underw 46:4 O 8 '42
Texas agents may not extend expiration dates. Nat Underw 46:3 Ag 13 '42
Virginia cuts fire rates. East Underw 43:28 F 27 '42
War hazards alter Detroit rate case. Nat Underw 45:4 D 18 '41
Working fire insurance schedules. A. N. Eagles. Weekly Underw 145:1076-7 N 8 '41

INSURANCE, Fire—*Continued*

Rating bureaus

Careers of men involved in changes in N.Y. fire rating organization. East Underw 43:20 Jl 10 '42

Changes announced in New York rating body. East Underw 43:16 Jl 3 '42

Chicago board recasting; relinquishes rating function, continues as trade group. Nat Underw 46:1 Ja 15; 3 Ja 22; 5 Ja 29 '42

Complete Chicago board changes. Nat Underw 46:1+ Ap 30 '42

Major changes advocated by N.Y. department; report on rating body. Nat Underw 45:1+ N 13 '41; East Underw 42:20 N 21 '41

Reinsurance

Morale of professional reinsurers is high today; good omen for dark days. Nat Underw 45:31+ D 25 '41

Record of fire reinsurers in U.S. in 1940 analyzed; tabulation. Nat Underw 45:32 D 25 '41

Reinsurance cessions of fire companies; premiums in force Dec. 31, 1941. Nat Underw 46:6+ Mr 5 '42

Unity Fire licensed by New York dept. to write fire reinsurance. East Underw 43:22 O 23 '42; Nat Underw 46:10 O 22 '42

See also American mutual reinsurance companies

Renewal certificates

Actual experience with renewal slips. Nat Underw 46:8 F 26; 10 Mr 12 '42

Barbour warns against precipitate substitution of renewal certificates at New York hearing. D. Porter. Ins Field (Fire ed) 71:8-9 Je 25 '42

Berry allows endorsements in Michigan. East Underw 43:28 Ap 24 '42

Champions use of renewal slips. E. G. Crapser. Nat Underw 46:10 Mr 26 '42

Doubts whether certificate use would save paper, time in fire business. J. F. Gilliams. Nat Underw 46:8 Je 4 '42

Indiana Attorney-General rules out renewal certificates. Nat Underw 46:6 Ap 9 '42

Movement grows for use of renewal certificates. Nat Underw 46:3 F 12 '42

New Hampshire permits renewal certificates. East Underw 43:30 Ap 17 '42

N.Y. assembly committee kills renewal certificate bill. Ins Field (Fire ed) 71:10 Mr 26 '42

N.Y. dept. hearing on renewal certificates. East Underw 43:16 Je 19 '42

New York regulations for renewal certificates for fire insurance companies. Weekly Underw 147:717 S 26 '42

New York to act on renewal certificate. East Underw 43:18 Ap 10 '42; Nat Underw 46:17 Ap 9 '42

Pink suggests renewal certificate forms for fire insurance lines. Nat Underw 46:4 Je 4 '42; East Underw 43:26 Je 12 '42

Pink's renewal slips released. Nat Underw 46:3 My 28 '42

Rate body prepares renewal certificate. W. J. Ward. East Underw 43:14 Ag 28 '42

Recall old renewal slips. Nat Underw 46:15 Ap 16 '42

Renewal certificates still open question. Ins Field (Fire ed) 71:8-9 My 21 '42

Renewal form may be legal in N.Y. East Underw 43:22 Ap 3 '42

Renewal rider is approved for use in California. Nat Underw 46:2 S 24 '42

Simplification of renewal procedure is live subject. Nat Underw 46:5+ F 19 '42

South Carolina approves renewal certificate use. Nat Underw 46:13 Ap 30 '42

Supt. Pink authorizes renewal certificates. East Underw 43:16 Jl 24 '42; Nat Underw 46:3+ Jl 23 '42

Washington will not use renewal certificates. Ins Field (Fire ed) 71:11-12 Ap 2 '42

Risks

Caution needed on low cost housing. M. E. Bulske. Nat Underw 46:6 Ap 2 '42

Classification and rating of farm fire risks. K. H. Hunter. (Bul.46) 44p U.S. Farm credit administration, Cooperative research and service division, Washington; pa 10c Supt. of doc. '41

Eye underwriting problems. Nat Underw 45:10+ N 27 '41

Fear trend to cut out sprinkler protection. Nat Underw 46:3 Ag 27 '42

Fire hazards of plywood plants. C. F. Wagner. Weekly Underw 146:1001-3 My 2 '42

Gas hoarders and insurance. Nat Underw 46:1 O 29 '42

Insurance has interest in furniture-makers plight. D. Porter. Ins Field (Fire ed) 71:16 Jl 30 '42

Non-combustible fluids lower cleaning hazards; abstracts. C. L. Allen. Weekly Underw 146:709+ Mr 28 '42; Nat Underw 46:6 Mr 26 '42

Problems of insuring defense stores weighed. Nat Underw 45:1 N 27 '41

Says merchants are creating more fire hazards. Nat Underw 46:6 Je 4 '42

Shore risk on rubber stocks assumed by Factory insurance association. Nat Underw 46:4 Ap 2 '42

School district policies

Texas court rules out mutuals on school lines. Nat Underw 46:3+ Ap 2 '42

State policies

Agents win big victory on Montana state cover. Nat Underw 46:30 Jl 2 '42

Survey shows some states buy insurance; others use fire funds. East Underw 43:20 F 27 '42

Statistics

Spectator fire index published; new, modernized edition for 1942. T. J. V. Cullen. Spectator (Property ed) 7:10-11+ Mr 19 '42

Stock and mutual fire premiums; comparisons, 1937-1941; graph. Spectator (Property ed) 8:19 S 17 '42

See also
Insurance, Fire—Finance

Study and teaching

Fire and marine insurance. W. C. Howe, jr. and others. Weekly Underw 145:218-19, 462, 706-7, 1025-8, 1076-7, 1287-8; 146:53, 330, 544-5, 782-5, 952-4, 1004-5, 1283; 147:28+, 227, 500, 802-5, 1068-71 Ag 2, S 6, O 4, N 1-8, D 6 '41, Ja 3, F 7, Mr 7, Ap 4, 25-My 2, Je 6, Jl 4, Ag 1, S 5, O 3, N 7 '42

Survey shows value of college courses; 90 percent stay in insurance. Nat Underw 45:6 N 20 '41

Taxation

Another tax case causes comment and confusion; taxability of fire insurance proceeds. Nat Underw 46:6 Ap 2 '42

Valuation of property

Buyers urged to have up-to-date appraisals. C. Nugent. East Underw 42:23 N 7 '41

Careful checking of policies advised. F. Crystal. Weekly Underw 147:273 Ag 8 '42

Check new values of property; advice of American management association. Nat Underw 45:4 N 20 '41

Comprehensive review of property valuation rules. C. L. Mehagan. Nat Underw 46:10 Mr 12 '42

Determining insured values a big question for producers today. W. L. Leonard. East Underw 42:26 N 7 '41

Determining values today; abstracts. W. J. Welsh. Ins Field (Fire ed) 70:20-1+ D 4 '41; Nat Underw 45:5+ D 4 '41

Fire and marine insurance; insurable values. E. P. Marshall. Weekly Underw 146:952-4 Ap 25 '42

How properly to measure insurance values. E. P. Marshall. Nat Underw 46:37 Mr 19 '42

Problem of building values and contribution clause. F. L. Erion. Nat Underw 46:35 My 28 '42

INSURANCE, Fire—*Continued*

War problems

Loss adjustments reflect insurance problems of war. J. H. Burlingame, jr. Nat Underw 46:2 My 21 '42

War risks

Actual war-time hazards covered by capital stock fire insurers. F. G. Howard. Ins Field (Fire ed) 71:11-14 Jl 16 '42

Broader war damage coverage in Canada. East Underw 42:20 N 14 '41

Change war clause in reporting New York revised policy. Nat Underw 46:5 Ap 16 '42; East Underw 43:20 Ap 17 '42

Massachusetts statement on war exclusion in fire contract. Nat Underw 46:17 Mr 19 '42

Sees supplemental form covering military plane damage; war risk exclusion clauses; abstracts. L. A. Watson. East Underw 43:21+ Mr 27 '42; Nat Underw 46:4+ Mr 26 '42

War risk exclusion clauses. C. Partridge. Nat Underw 46:30 Ja 8 '42

War risk fire insurance problems studied at American bar association meeting; abstracts. J. S. Foster. East Underw 43:15 Ag 28 '42; Weekly Underw 147:444-6 Ag 29 '42; Nat Underw 46:4 Ag 27 '42

Boston

Boston fire taught costly lesson. R. W. Boyd. il Weekly Underw 147:602, 604+ S 19 '42

1872 Boston fire stunned nation; insurance commissioner's testimony. R. Rhodes. il Weekly Underw 147:598-600+ S 19 '42

Tabulation of losses in great Boston fire. Weekly Underw 147:642+ S 19 '42

Canada

America Fore tells stand in Canada flareup. Nat Underw 46:4 F 5 '42

Broader war damage coverage in Canada. East Underw 42:20 N 14 '41

Canada non-tariff companies accused of piracy in forms. Nat Underw 46:2+ Je 11 '42

Canada rates undergo overhauling process. East Underw 43:19 F 27 '42

Canadian assn. must act to keep tariff principles intact. K. Thom. East Underw 43:18 Jl 10 '42

Canadian dwelling policy is greatly broadened; slash in rates. Nat Underw 46:6 Ap 16 '42

Canadian fire loss up 23% in 1941. Nat Underw 46:6 My 28 '42

Canadian fire losses taking upward trend; expect no increase in rates. F. J. Jordan. East Underw 42:18 D 26 '41

Canadian underwriters association action will strengthen position of members. E. A. Brownell. East Underw 43:24 Mr 6 '42

Efforts to prevent rate war in Canada reported under way. East Underw 43:1+ F 20 '42; Nat Underw 46:3+ F 19 '42; Correction. 46:21 Mr 12 '42

Feeling tense in Canada as rate decision nears; North America gives blueprint of plans. Nat Underw 46:5+ F 12 '42; East Underw 43:20 F 13 '42

Fire and casualty premium increases reported in Canada. East Underw 43:1+ Ja 16 '42

Independents take issue with Canadian underwriters association agency contract. Nat Underw 46:31 S 3 '42; East Underw 43:22 S 11 '42

Maine

Non-assessable fire forms are held illegal in Maine. East Underw 43:19 Ag 28 '42

Mexico

Mexico held now to present good opportunities for U.S. companies. East Underw 43:20 Ap 10 '42

Missouri

Charges McKittrick with smear attempt; answers charges made at small business hearing. W. C. Ploeser. Nat Underw 46:5+ My 7 '42

Chicago observers are puzzled about reasons behind Missouri rate case hearings. D. Wimmer. Ins Field (Fire ed) 70:8-9 N 27 '41

Companies lose Missouri case appeal. Nat Underw 46:6 Jl 16 '42

Eastern sessions of Missouri hearings are winding up. Nat Underw 46:4 Jl 30 '42

Light on aims in Missouri inquiry. Nat Underw 46:3 Jl 9 '42

McKittrick asks rehearing in Missouri wrangle. Nat Underw 46:8 My 21 '42

McKittrick asks U.S. aid in Missouri fight. East Underw 43:28 F 20 '42

Missouri hearings recess; more sessions in Missouri, Chicago, Hartford and New York in 1942. Nat Underw 45:9 D 18 '41

Missouri hearings renewed in New York. East Underw 43:14 Jl 17 '42; Nat Underw 46:6 Jl 16 '42; Weekly Underw 147:117+ Jl 18 '42

Missouri rate case hearings move back to Chicago. Nat Underw 46:2 Jl 2 '42

Missouri rate case produces new headline; resignation of Chief Justice Gantt. Nat Underw 46:12 My 7 '42

Missouri rate hearings return to New York. East Underw 43:18 Jl 10 '42

More emphasis on anti-trust in latest Missouri move. Nat Underw 46:3 Ja 15 '42

More witnesses at Missouri hearings. Nat Underw 46:16 Ap 16 '42

New phase of Missouri hearings under way. Nat Underw 46:8 Mr 19 '42

Order witnesses to Missouri. Nat Underw 46:3 Ja 29 '42

Pursues anti-trust angle in Missouri case. Nat Underw 45:4+ N 27 '41

New York (state)

N.Y. Dept. not to act on broker-agent rule. East Underw 43:17 O 30 '42

Texas

Fire by States issues supplement on Texas. Weekly Underw 147:1062 N 7 '42

Texas agents may not extend expiration dates. Nat Underw 46:3 Ag 13 '42

United States

Fire insurance companies organized or retired during 1941. Spectator (Property ed) 7:28, 48 Mr 5 '42

Keynote of fire insurance in 1941 has been support of defense effort. Ins Field (Fire ed) 70:8-10 D 25 '41

Reinsurance among farmers' mutual fire insurance companies. V. N. Valgren. U S Farm Credit Administration Bul 45:1-32; pa 10c Supt. of doc. '41

INSURANCE, Flood

Catastrophe underwriting and war risk. J. J. Magrath. Weekly Underw 146:20+ Ja 3 '42

INSURANCE, Forgery

Depositors forgery bonds. W. J. Purcell. Weekly Underw 145:1200-1; 146:285-6 N 22 '41, Ja 31 '42

Financial paper claims. S. Maurice. East Underw 43:36 F 27 '42

INSURANCE, Fur

Bailee insurer; between the bailee's customer's policy and the fur floater policy the former covers. Weekly Underw 146:550 Mr 7 '42

Personal fur floater policy; what it is and how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:22-3 F 5 '42

INSURANCE, Furriers' customers

All risks furriers' customers policy. P. S. May. Weekly Underw 146:1221 My 30 '42

Furriers' customers policy and how it is sold. F. C. Crowell, jr. Ins Field (Fire ed) 70:22-3 D 4 '41

Furriers may now buy war cover on customers garments. Nat Underw 46:3 S 24 '42

INSURANCE, Grain elevator

Elevator loss at Superior may cost $1,500,000. Nat Underw 46:2 Ja 15 '42

Official report on big elevator loss. Nat Underw 46:2 Ja 22 '42

INSURANCE, Group

Bankers Life, Iowa, now in group field. Nat Underw (Life ed) 45:4 N 7 '41

Big increase for year seen in group insurance. T. I. Parkinson. Nat Underw (Life ed) 46:1+ S 11 '42

Can't add restrictions when group is converted in New Hampshire. Nat Underw (Life ed) 46:2 Jl 17 '42

Connecticut General underwrites large group case for Glenn L. Martin co. East Underw 43:6 Mr 27 '42; Weekly Underw 146:800 Ap 4 '42

Dividends paid on group policies discussed by Insurance commissioners. Nat Underw (Life ed) 45:8+ D 12 '41

Employer need not report discontinuance of policy. East Underw 43:9 F 20 '42

Ford case not indicative of trend in group insurance. Nat Underw 46:21 Ap 9 '42; Nat Underw (Life ed) 46:3 Ap 10 '42

Ford drops huge group cover. Nat Underw (Life ed) 46:1+ F 13 '42

Ford fast one; abandonment of group insurance answers criticism of workers. Business Week p80 F 14 '42

Ford group case goes to John Hancock. Nat Underw 46:29 Mr 5 '42; Same. Nat Underw (Life ed) 46:3 Mr 6 '42

Future of group association clouded; Metropolitan, Prudential, Equitable out. Nat Underw 46:13 Jl 30 '42; Same. Nat Underw (Life ed) 46:1 Jl 31 '42

Group coverages make gains in 1941. W. J. Graham. Nat Underw (Life ed) 46:8 Ja 9 '42

Group insurance as an industrial relations factor. J. M. Campbell. Aero Digest 41:130+ S '42

Group insurance gains. Business Week p90+ Je 27 '42

Group insurance makes good showing; New York sheet metal, roofing and air conditioning contractors association. Sheet Metal Worker 33:49 Je '42

Group life insurance hits new high in 1941. T. I. Parkinson. Weekly Underw 146:148+ Ja 10 '42

Group life's gain. Business Week p95-6 Jl 25 '42

Group policy canceled by employer releases company. East Underw 43:11 Ja 2 '42

Hancock writing Ford group in two contracts. East Underw 43:4 Ap 10 '42

Huge group plan provides for paid-up values. Nat Underw (Life ed) 45:1+ N 28 '41; East Underw 42:8 D 12 '41

Insured welfare plans growing in Canada. East Underw 43:4 O 16 '42

New Ford group cover perfected; rates. Nat Underw 46:25 Mr 19 '42

New rules in California on group insurance. Nat Underw (Life ed) 46:19 S 4 '42

Study effect of Harvester plan in group field. Nat Underw (Life ed) 45:1+ D 5 '41

30th anniversary of group writing. W. J. Graham. Nat Underw (Life ed) 46:1+ Jl 3 '42

Triumph for group; thirty years' growth. Business Week p72-3 Ja 10 '42

Union group insurance. Business Week p67 F 28 '42

Union's insurance; U.A.W., John Hancock Life devise policy to replace that canceled by Ford. Business Week p72-3 Mr 21 '42

War workers' beneficiaries receive more than $45,000 under group claims. Weekly Underw 146:9 sec 2 My 9 '42

See also

Insurance, Accident—Family group policies

Insurance, Hospitalization

Insurance, Life—Family group policies

Disability provisions

Performance by insured of substantial duties of occupation bars recovery of disability benefits. Weekly Underw 146:693 Mr 21 '42

Rates

Group companies at odds on rates for hospitalization. Nat Underw (Life ed) 46:3 Jl 10 '42; Same. Nat Underw 46:17 Jl 9 '42

INSURANCE, Hail

Hail advisory men in annual parley; review 1941 record. Nat Underw 45:6 N 20 '41

Hail changes in Iowa. East Underw 43:34 Ap 17 '42

Hail men expect one of best years. Nat Underw 46:6 F 26 '42

Hail rates will not be raised says Association. Ins Field (Fire ed) 70:10 N 13 '41

Prospects are good for one of best hail seasons. Nat Underw 46:2+ Ap 30 '42

Warns against racket in hail claims. T. R. Mansfield. Ins Field (Fire ed) 71:14 Ag 27 '42

Western Hail men reelect officers; 1941 losses heavy. Nat Underw 45:6 D 4 '41

Montana

Arbitration held only remedy of one insured by State board of hail insurance. Weekly Underw 147:1038 O 31 '42

INSURANCE, Hangar keeper's liability

Hangar keeper's liability. Spectator (Property ed) 7:27 F 19 '42

INSURANCE, Health

Compulsory health insurance, pro and con. E. J. Faulkner. il Spectator (Life ed) 147:6-9+ D 4 '41; Abstracts. Nat Underw 45:17+ N 27 '41; East Underw 42:8 D 5 '41

Contrast offered in social programs; Rhode Island Senate passes state health bill; New York health service offers socialized medicine. East Underw 43:34 My 1 '42

Opens fight on compulsory health insurance. J. R. Garrett. East Underw 43:48 S 25 '42

Views broad implications of social insurance. R. A. Hohaus. Nat Underw (Life ed) 46:8+ O 9 '42

See also

Insurance, Accident

Insurance, Disability

Insurance, Hospitalization

also Health and accident underwriters conference

Chile

Aims and achievements of the Chilean preventive medicine act. M. de Viado. Int Labour R 46:123-35 Ag '42

Great Britain

Wartime prescribing of medicines in British health insurance. Int Labour R 45:209-11 F '42

New York (state)

Health insurance plan before N.Y. legislature. Oil Paint & Drug Rep 141:3+ F 23 '42

Rhode Island

Compulsory health-insurance law adopted by Rhode Island. Monthly Labor R 55:101-2 Jl '42

Health insurance; Rhode Island compulsory system for workers. Business Week p76-7 Jl 11 '42

Rhode Island law whirlwind of disaster. S. C. Carroll. East Underw 43:28-9 Jl 3 '42

Underwriters study sickness law. Weekly Underw 146:1264+ Je 6 '42

INSURANCE, Horse and wagon

As use of teams increases interest in covers revives. Nat Underw 46:35 My 28 '42

Horse and wagon insurance now seriously considered by agents. East Underw 43:32 My 29 '42

INSURANCE, Hospital liability

Hospital indemnity policy covers negligent failure of sanatorium to furnish attendant for patient. Weekly Underw 147:347 Ag 15 '42

INSURANCE, Hospitalization

Accident and health insurance in 1941 by states; hospitalization plans included; tabulation. Spectator (Life ed) 149:25 pt 2 S '42; Spectator (Property ed) 8:29 S 17 '42

INSURANCE, Hospitalization—*Continued*

C. Ervin and Doris Waller leaders in Professional Corp.; twenty dollar deductible hospitalization policy. East Underw 43:32 Jl 24 '42

Columbian protective hospitalization coverage for women announced. Weekly Underw 146: 1293 Je 6 '42

Continental Casualty offers personal hospital policy. Nat Underw 46:19 Jl 9 '42; East Underw 43:30 Jl 24 '42

Financial and operating results of non-profit hospital service plans for the year ending December 31, 1941; tabulation. Spectator (Life ed) 148:29 My 7 '42; Same. Spectator (Property ed) 7:41 My 14 '42

Franchise merchandising convenient way to wholesale A. & H. lines. P. G. Korn. East Underw 43:31+ Ag 14 '42

Group companies at odds on rates for hospitalization. Nat Underw (Life ed) 46:3 Jl 10 '42; Same. Nat Underw 46:17 Jl 9 '42

Group hospital and surgical coverages protect wartime industrial workers. G. W. Fitzhugh. East Underw 43:30+ Ag 14 '42

Group hospital rules liberalized by Equitable society. Nat Underw (Life ed) 46:18 Mr 6 '42

Hospital groups sidestep social security proposal. Nat Underw 46:20 F 19 '42

Hospital plan for Schweitzer workers; medical-surgical plan of New Jersey. il Paper Tr J 115:15 Jl 23 '42

Hospital policy is revised by State National Life. Nat Underw (Life ed) 45:20 D 26 '41

Important role of group hospitalization reviewed. C. B. Macdonell. Nat Underw 46:25 O 15 '42; Same. Nat Underw (Life ed) 46:4 O 16 '42

New hospitalization plan is offered in N.J. Nat Underw 46:22 Jl 16 '42

N.Y. hospital service increasing benefits. Nat Underw 46:22 Ja 15 '42

Northwestern National makes hospital study. East Underw 42:32 D 19 '41

Record of hospital insurers summarized. Nat Underw (Life ed) 45:9 D 12 '41

Security Mutual now more liberal on hospital expense. Nat Underw 46:18 Jl 16 '42

INSURANCE, Improvement and betterment. See Insurance, Fire—Improvement and betterment policies

INSURANCE, Industrial

Cost of underwriting procedures discussed before actuaries at Toronto. P. Shepherd. East Underw 43:3+ O 30 '42

Industrial life insurance is meeting war's conditions. H. T. Dobbs. Weekly Underw 146:35-7 sec 2 My 9 '42

Now is good time to reexamine selection costs; economics of industrial underwriting; address at St Louis. P. Shepherd. Nat Underw (Life ed) 46:3-4 O 16 '42

Public confidence is life blood of industrial business. F. D. Kineke. Nat Underw (Life ed) 46:18+ O 9 '42

Suggest provisions for industrial policies to commissioners. East Underw 42:44 D 12 '41

Understanding industrial. W. A. Lonsford. Ins Field (Life ed) 71:14-15 My 8 '42

See also

Industrial insurers conference

Adjustment of claims

Methods of settling death claims reported: Industrial insurers' conference. Ins Field (Life ed) 71:8 S 11 '42

Recovery of accidental death benefits where assured sustained accidental injury while committing a felony. Weekly Underw 146: 574 Mr 7 '42

Agents

C.I.O. petitions Metropolitan for election. Ins Field (Life ed) 70:9-10 N 21 '41

CIO wins election among Prudential industrial men in Greater New York area. Nat Underw (Life ed) 45:16 N 14 '41

Debit handling is adjusted to war conditions. Nat Underw (Life ed) 46:8 Je 5 '42

Effect of gas rationing on debit men. R. E. Richman. Nat Underw (Life ed) 46:4 My 29 '42

Industrial agent has an advantage with wage earners. Nat Underw (Life ed) 46:9-10 S 4 '42

Industrial man is now having his innings. Nat Underw (Life ed) 46:7 Ap 24 '42

Work of man on debit is shown in figures. Nat Underw (Life ed) 46:6 Ap 10 '42

Salaries and commissions

Massachusetts high court upholds law on return commissions on life policies. Weekly Underw 146:346+ F 7 '42; Same abr. Nat Underw (Life ed) 46:5 F 6 '42

Women agents

Women succeed as industrial agents in Nashville. M. Goodwin. Nat Underw (Life ed) 46:22 Ag 14 '42

Policies

John Hancock changes its industrial rates; some benefits liberalized. East Underw 43: 5 Ja 2 '42

War risks

Southern companies tell war clause practices. Nat Underw (Life ed) 46:20 Mr 13 '42

Maryland

Objective study of industrial made in Maryland. Nat Underw (Life ed) 46:3+ Je 26 '42

New York (state)

New York department report on industrial. Nat Underw (Life ed) 45:8 D 12 '41

New York report analyzes industrial situation. Ins Field (Life ed) 70:5 D 26 '41

New Zealand

Industrial assurance in New Zealand. Economist 142:713 My 23 '42

INSURANCE, Inland marine

Inland marine insurance, a profitable field. R. H. Bancroft. Weekly Underw 146:601+ Mr 14 '42

Insuring your business; ocean and inland marine insurance protect against many hazards. F. C. Crowell, jr. Barron's 22:13+ S 14 '42

Opportunities offered through inland marine. S. L. Bodman. Weekly Underw 146: 1399+ Je 20 '42

Plan for allocation of marine premiums studied. Nat Underw 46:6 Jl 9 '42

Some pertinent comments on marine business. M. V. Campbell. Nat Underw 46:11 Ap 16 '42

See also

Insurance, Airplane cargo

Insurance, Camera

Insurance, Fur

Insurance, Horse and wagon

Insurance, Installation

Insurance, Jewelers' block

Insurance, Motor truck contents

Insurance, Tourist baggage

Adjustment of claims

Consignor's liability again tested in court. Weekly Underw 146:789 Ap 4 '42

Court defines forwarder of goods as distinguished from carrier. East Underw 43:37 Ap 17 '42

Salesman's floater does not cover goods when checked in parcel room. East Underw 43:31 My 1 '42

Shipment coverage rider held not to extend liability limit. East Underw 43:23 Ja 2 '42

Agents

Inland marine in 1941-42. L. B. Menner. Ins Field (Fire ed) 70:20-1 D 25 '41

Possibilities offered in inland marine cover. C. W. Alkire. Weekly Underw 145:1451 D 27 '41

Commissions

Canadian agents get 25% on property floater. Nat Underw 46:34 Ja 22 '42

INSURANCE, Inland marine—*Continued*

All-risk policies

Holds all-risk policy does not cover fraud. Weekly Underw 147:1073 N 7 '42

Coverage

I.M.U.A. extends jurisdiction over railroad rolling stock. East Underw 42:30 D 26 '41; Nat Underw 45:3 D 25 '41; Spectator (Property ed) 7:23 D 25 '41
Joint committee issues rolling stock bulletin. Weekly Underw 146:433 F 21 '42
Outlines principles of inland marine coverages. G. H. Angell. Weekly Underw 146: 1220 My 30 '42
What the neon sign policy is and what it covers. F. C. Crowell, jr. Ins Field (Fire ed) 70:22 N 27 '41

Finance

Premium writings, 1938-1941, and losses, 1941. East Underw 43:27-8+ Mr 13 '42

Losses

Partial inland marine losses now troublesome. Nat Underw 46:3+ Ag 27 '42

Policies

All loss insurance on money and securities. F. C. Crowell, jr. Ins Field (Fire ed) 71:20-1 Ap 9 '42
Annual transportation policy. H. Thacher, jr. Weekly Underw 145:1189-90 N 22 '41
Doodle bug adjuster's helper; radium lost in Detroit sewer found. Weekly Underw 147: 400-1 Ag 22 '42; Nat Underw 46:27-8 Ag 27 '42
Five marine best sellers. H. D. Van Gils. Weekly Underw 147:864 O 10 '42
Modes and conditions of transportation cover. C. Welk. Weekly Underw 146:432 F 21 '42
Motion picture film. Spectator (Property ed) 7:29 Mr 19 '42
New inland ruling on insurance of cranes. East Underw 42:27 N 28 '41
Opportunity for inland marine sales. L. K. Giffin. Ins Field (Fire ed) 71:20-1 F 12 '42
Salesmen's samples floater policy and how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:20-1 F 26 '42
Silverware all risks floater policy. F. C. Crowell, jr. Ins Field (Fire ed) 71:22-3 F 19 '42
Surplus commodity stamp; Washington amends nation-wide definition. Weekly Underw 146:1115 My 16 '42
Transportation cover. L. T. Backus. Weekly Underw 146:334 F 7 '42
Transportation cover called pressing need. Weekly Underw 147:274 Ag 8 '42
Transportation insurance, the annual transit floater. F. C. Crowell, jr. Ins Field (Fire ed) 71:22-3 F 12 '42
Urges agents to make clear policy limitations. W. L. Braerton. Nat Underw 46:30 S 24 '42
War, strikes and riots inland navigation; additional clause for open policy form no. 4 for shipments between places on Ohio and Mississippi rivers. Spectator (Property ed) 7: 35 Mr 5 '42
War, strikes and riots, inland navigation; open policy form no. 4. Spectator (Property ed) 7:22 Ja 8 '42
What the neon sign policy is and what it covers. F. C. Crowell, jr. Ins Field (Fire ed) 70:22 N 27 '41

Gun floater policy

Gun floater policy; salable small premium line. F. C. Crowell, jr. Ins Field (Fire ed) 70:24 N 6 '41

Personal property floater

Blackall turns down personal property floater in Connecticut. Nat Underw 46:6 Ap 23 '42; East Underw 43:20+ Ap 17 '42
Canadian agents seek revisions in personal property floater. East Underw 42:27 N 28 '41
Canadian inland underwriters association issues rules for floater policies. East Underw 43:31 My 1 '42
Canadian underwriters personal property rules. W. E. McLean. Weekly Underw 145: 1079+ N 8 '41
Connecticut studying question of legalizing personal property form. East Underw 43:25 Mr 13 '42
Description and analysis of new Maryland forms. W. D. Beaumont. Ins Field (Fire ed) 70:22-4+ D 25 '41
Expounds P.P.F. at Virginia meeting. H. D. Van Gils. Nat Underw 46:6 My 28 '42
I.M.U.A. hits competitors. East Underw 43: 31 Je 5 '42
Michigan to permit floater form on war materials. Nat Underw 46:31 Jl 2 '42
Missouri floater; General of Seattle issues modified form. Weekly Underw 146:486 F 28 '42
Modified personal property floater. D. Berlin. Weekly Underw 146:899-900 Ap 18 '42
Personal property floater authorized in Maryland. Weekly Underw 145:1337 D 13 '41
Personal property floater minimum premium change. Nat Underw 46:36 S 17 '42
Personal property floater provides ambidextrous protection. C. T. Hubbard. Barron's 22:7 Ap 6 '42
Personal property floater rates set out for Canada. Nat Underw 46:36 Ap 30 '42; Weekly Underw 146:1062 My 9 '42
Postpone property floater in Canada. East Underw 42:20 D 19 '41
Principal provisions of the personal property floater. F. C. Crowell, jr. Ins Field (Fire ed) 70:26-8 D 18 '41
Property floater authorized in Virginia. Weekly Underw 146:1454 Je 27 '42
Property floater risks; definition modified in South Carolina. Weekly Underw 146:1456 Je 27 '42
Relative merits of deductible and franchise clauses analyzed in Canada. East Underw 43:22 Mr 27 '42
Report personal property floater popular in Rhode Island, Maryland. East Underw 43: 26 Ap 17 '42
Sale of personal property floater in Maryland gets second wind. W. A. Donegan. Nat Underw 46:32 Jl 9 '42
Sell the personal property floater. O. A. Donegan. Ins Field (Fire ed) 71:20-2 O 8 '42
Vermont o.k.'s personal property floater. Nat Underw 46:38 F 12 '42

Study and teaching

New marine educational course announced by Automobile and Standard Fire. East Underw 43:17 My 8 '42

War risks

American carriers offer inland war risk on cargoes. Nat Underw 46:3 Ja 8 '42; Weekly Underw 146:230 Ja 24 '42
Studying cover for inland water ships. Weekly Underw 146:1285 Je 6 '42

Canada

Canadian inland underwriters association issues rules for floater policies. East Underw 43:31 My 1 '42
Canadian Inland Underwriters fix Oct. 1 for rate and rule changes. East Underw 43:23 Jl 17 '42
Effective date of new rules and forms. Nat Underw 46:32 Jl 9 '42

Minnesota

Clarifies marine rulings; Commissioner issues supplementary statement on nation-wide definition. East Underw 43:35 Mr 6 '42

INSURANCE, Installation

Installation floater policy and what it normally covers. F. C. Crowell, jr. Ins Field (Fire ed) 71:20-1 Ap 2 '42
Interpretative bulletin amends former ruling on installation risks. East Underw 43:25 Ja 23 '42

INSURANCE, Jewelers' block

Jewelers' block policy; comprehensive insurance for the jeweler. F. C. Crowell, jr. Ins Field (Fire ed) 71:24-6 Mr 19 '42

INSURANCE, Jewelry

Concealment of facts in jewelry floater policy; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:30-2 My 14 '42

Non-marine rule on concealment held to apply to jewelry policy. East Underw 43:30 Je 5 '42

INSURANCE, Leasehold

Leasehold interest insurance and when applicable. F. C. Crowell, jr. Ins Field (Fire ed) 71:22-3 Ja 15 '42

INSURANCE, Liability

Liability coverage. M. C. Jacobs and J. M. Leahey. 83p $2.50 M. C. Jacobs, 347 Madison av, New York '42

Medical payments; Pennsylvania requirements outlined. M. H. Taggart. Weekly Underw 145:1456 D 27 '41

Need for liability insurance for corporation directors. Weekly Underw 145:1110-11 N 8 '41

New York banks may indemnify directors. Nat Underw 45:18 N 27 '41

Statutes affecting liability insurance; a digest of state statutes relating to negligence actions and liability insurance coverage. 107p pa $1 Assn. of casualty and surety executives, New York '41

See also

Insurance, Automobile
Insurance, Employers' liability
Insurance, Motor truck
Insurance, Owners', landlords' and tenants' public liability
Insurance, Product liability
Insurance, Residence liability
Insurance, Warehousemen's liability
Insurance, Workmen's compensation

Adjustment of claims

Assaults in relation to liability insurance; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:42-4 Mr 5 '42

Public liability policy with lessee's agreement to indemnify; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-7+ D 25 '41

Schoolteacher's liability; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:32-3 Je 25 '42

Advertising

Advertising in grim earnest to lessen accidents; Liberty mutual insurance company. B. Moore. il Ptr Ink 200:28+ S 11 '42

Finance

Development of liability incurred losses, policy years, 1937-1940; tabulation. Spectator (Property ed) 8:17 S 17 '42

1941 liability experience; tabulation, by company. Nat Underw 46:33 Ap 2 '42

Schedule P results; loss experience by companies operating in New York, 1936-1941; tabulation. Nat Underw 46:29 Mr 5 '42

Losses

Exposed fuel oil tank caused Christmas day holocaust in St Louis; insurance carried. Weekly Underw 146:87 Ja 3 '42

Policies

Airport liability policy. Spectator (Property ed) 7:23 F 5 '42

American Automobile brings out little comprehensive form; links personal liability and auto coverages. Nat Underw 46:23+ O 15 '42

Casualty and liability; comprehensive liability insurance (cont). E. W. Sawyer. Weekly Underw 146:193-4, 204-5, 443-5+, 676-9, 916-18, 1126-8, 1411-12; 147:139-41, 335-7, 685-7, 934-6, 1198-1200, 1446-8 Ja 17, F 21, Mr 21, Ap 18, My 16, Je 20, Jl 18, Ag 15, S 19, O 17, N 21, D 19 '42 (to be cont)

Casualty insurance 1941-42; from a sales point of view. L. R. Ringer. Ins Field (Fire ed) 71:16-17 Ja 1 '42

Comprehensive family P.L. form of General Accident includes medical expense. Nat Underw 45:21 D 18 '41

Comprehensive form analyzed; forum during N. Y. agents meeting. Nat Underw 46:17+ My 14 '42; East Underw 43:18+ My 15 '42

Contractual liability. Spectator (Property ed) 7:23 Ja 22 '42

Medical riders; accident coverage must be in separate policies, Jersey rules. Weekly Underw 147:119 Jl 18 '42

New Lloyds policy in California protects volunteers under the civilian defense program. Nat Underw 46:22 Ap 9 '42

Public liability insurance; blanket policy suggested for fiduciary's risks not covered by standard forms. H. Pirtle. Trusts & Estates 75:57-62 Jl '42

Special farm liability policy; Allied mutual casualty of Des Moines. Nat Underw 46:40 Mr 5 '42; East Underw 43:46 Mr 13 '42

Special farm liability policy; Ohio Farmers Indemnity contract. Nat Underw 46:20 F 12 '42

Views comprehensive cover after a year's experience. W. Bremer. Nat Underw 46:22 Mr 26 '42

See also Insurance, Hangar keeper's liability

Rates

War department's comprehensive rating plan. East Underw 42:56+ D 12 '41; Same. Management R 31:30-1 Ja '42

Statistics

Number of suits outstanding per $100,000 of earned premiums of liability business second period, policy years 1939-1941 as of December 31, 1941. Spectator (Property ed) 8:18 S 17 '42

Volunteer war workers coverage

New owners', landlords' and tenants' coverage for bicycle liability and volunteer war workers. East Underw 43:28+ Jl 10 '42; Nat Underw 46:17-18 Jl 16 '42

War worker cover arouses interest. Nat Underw 46:13 Jl 30 '42

Europe

Effect of inflation on liability insurance abroad. K. M. Jachmann. East Underw 42:43 N 7 '41

INSURANCE, Life

American mother is greatest asset of life insurance. F. D. Kineke. East Underw 43:76 pt 2 O 9 '42

Approach to the future; consideration of life insurance in its relation to probable post-war realities. H. J. Johnson. Spectator (Life ed) 149:14-15+ Jl '42

Asks three-point program for life insurance companies. H. J. Johnson. East Underw 43:11 My 8 '42

At the crossroads; life insurance at the end of an era. T. J. V. Cullen. Spectator (Life ed) 149:4-9, 73-7 Jl '42

Barron's starts series of articles on life insurance. Nat Underw (Life ed) 46:4 Mr 13 '42

Current trends reviewed before Actuarial society; abstracts. J. B. Maclean. East Underw 43:3+ O 23 '42; Nat Underw (Life ed) 46:2+ O 23 '42

Dollar depreciation makes under-insurance. M. S. Rukeyser. Comm & Fin Chr 155:850 F 26 '42

Favors pay-as-you-go plan; sees value for life insurance people. F. L. Rowland. Nat Underw (Life ed) 46:1 Ag 21 '42

Future of life insurance in America. S. S. Huebner. Spectator (Life ed) 148:6-10 My 21 '42

Hidden values in your life insurance. B. W. Levmore. Barron's 22:3 Mr 9; 3 Mr 16; 8 Mr 23; 9-10 Mr 20; 9 Ap 6; 13 Ap 13; 13 Ap 20; 7 Ap 27; 13 My 4; 8 My 11; 6 My 18; 18 My 25; 20 Je 1; 3+ Je 8; 16 Je 22; 7 Je 29; 7-8 Jl 13 '42

Home Life results, objectives; abstracts. W. P. Worthington. Nat Underw (Life ed) 45:1+ N 7 '41; East Underw 42:11 N 7 '41

INSURANCE, Life—*Continued*

In which we look back upon the year 1945 and describe the birth of a glorious era. R. L. Barbour. Ins Field (Life ed) 71:6 S 18 '42

Insurance as combatant in war. A. N. Mitchell. Nat Underw (Life ed) 45:13+ D 12 '41

Is life insurance a good buy today? S. Katz. Ins Field (Life ed) 71:16+ F 6 '42

It is patriotic to buy life insurance and to sell it. C. Adams. Nat Underw (Life ed) 45:19-20 D 26 '41

Let's look at the bright side. A. J. Johannsen. East Underw 43:102 pt 2 O 9 '42

Letter to insured justifying faith in insurance. P. H. Evans. East Underw 43:3 O 16 '42

Life insurance and the income tax. J. B. Lowe and J. D. Wright. Banking 34:48-50 Mr '42

Life insurance and war. C. F. Hobbs. Weekly Underw 146:104+ Ja 3 '42

Life insurance as property. W. R. King. Weekly Underw 146:157-8 Ja 10 '42

Life insurance educator; life insurance, accident and health insurance. 198p $2 Underwriter ptg. and pub. co, New York '41

Life insurance essential in war economy. G. W. Smith. East Underw 43:18 My 22 '42

Life insurance in November. Spectator (Life ed) 147:24-6+ D 18 '41 [cont monthly]

Life insurance is safe as long as government is safe. M. J. Cleary. East Underw 43:3 Ja 9 '42

Life insurance market not changed due to war. F. Bremier. Weekly Underw 146:617 Mr 14 '42

Life insurance must stop acting prodigal. D. B. Maduro. East Underw 43:3+ Je 19 '42

Life insurance natural national defense. C. V. Loomis. Weekly Underw 146:62 sec 2 My 9 '42

Major companies map conservative steps for Jan. 1. Nat Underw (Life ed) 45:1 N 21 '41

More business than ever, for those alert to new conditions. J. H. Wood. East Underw 43:13 O 9 '42

Must meet problems of today with courage. N. D. Phelps. Nat Underw (Life ed) 46:7 Ja 2 '42

New State Mutual head makes first visit to field; George Avery White's comments. Nat Underw (Life ed) 46:4+ O 2 '42

New York Life leaders' Top club has convention on paper. East Underw 43:3+ S 18 '42

Northwestern Mutual; history and management. W. E. Roesch. il Spectator (Life ed) 149:30-3 N; 26-9, 70-1 D '42

Opportunities in life insurance warrant optimistic outlook. Weekly Underw 147:761 S 26 '42

Production slump reasons analyzed. H. J. Johnson. Nat Underw (Life ed) 46:4 S 25 '42

Public leaders see enduring role of life insurance in war as in peace. East Underw 43: 12-13, 16 pt 2 O 9 '42

Public opinion in the world of amateur tennis. il Spectator (Life ed) 149:46-7 S '42

Public opinion; opinion of the man on the street on life insurance. Spectator (Life ed) 149:54-6 Jl '42

Sell more cases $25,000 to $50,000. Nat Underw (Life ed) 46:2 F 27 '42

Some fundamental trends. H. H. Jackson. East Underw 42:3+ N 7 '41; Excerpts. Weekly Underw 145:1061+ N 8 '41; Abstract. Comm & Fin Chr 154:1229 N 27 '41

Sun shines bright; future of life insurance; abstracts. S. S. Huebner. Ins Field (Life ed) 71:14+ My 1 '42; Nat Underw (Life ed) 46: 3+ My 1 '42

Tax avoidance selling censured. E. N. Griswold. Nat Underw (Life ed) 46:1+ O 9 '42

Triple threat to private insurance; misconceptions of layman and management's trustee duty. D. B. Maduro. Trusts & Estates 75:383-4 O '42

Understanding life insurance. I. Dretzin and S. A. McAvoy. 245p $2 Crown publishers, New York '42

Understanding life insurance. C. J. West. 302p $2.75 College book co, Columbus, Ohio '41

War clauses, counselors and post war position. L. H. Pink. East Underw 43:3 Mr 27 '42

Watchword is safety; statements on life insurance by commissioners, with comment by Frank Ellington. il Spectator (Life ed) 147:6-9+ sec 2 D 4 '41

What life insurance has done along major lines since the war started; abstracts. H. J. Johnson. Nat Underw (Life ed) 46:7 Jl 10 '42; Ins Field (Life ed) 71:5-6 Jl 10 '42

See also

Annuities
Benefit societies
Insurance, Business
Insurance, Group
Insurance, Industrial
Insurance, Military and naval service
Insurance trusts
Military service—Insurance aspects
Mortality
Savings banks—Insurance selling

also American life convention; Association of life insurance presidents; National association of life underwriters

Accounting

Life insurance accounts. E. C. Wightman. 2d ed 303p $3.50 Life office management assn, 110 E. 42d st, New York '41

Actuaries

See Insurance actuaries

Adjustment of claims

Absolute assignment in consideration for cancellation of debt and payment of premiums. Weekly Underw 146:507 F 28 '42

Agent must be familiar with judicial interpretations. H. B. Thompson. Nat Underw (Life ed) 46:19 Ag 21 '42

Assignee wins in interpleader. East Underw 43:13 S 4 '42

Claim association centers attention on war problems; payment of death claims among men in service. D. J. Reidy. Nat Underw 46:19+ S 17 '42; Same. Nat Underw (Life ed) 46:1+ S 18 '42

Claim association expedites handling of war death cases. Nat Underw (Life ed) 46:6+ Jl 10 '42; Same. Nat Underw 46:17-18 Jl 16 '42

Comforting decision handed down in Canada; policy loans to beneficiary. Nat Underw (Life ed) 46:11 Mr 27 '42

Company entitled to fees, cost in interpleader suit. East Underw 43:11 Ja 2 '42

Death of insured does not abate action for cancellation on ground of fraud in application for policy. Weekly Underw 147:586 S 12 '42

Executor of beneficiary dying with insured in common disaster has burden of proving survivorship. Weekly Underw 145:1430 D 20 '41

Eyewitness clause places burden on beneficiary of showing existence of eyewitness of shooting. Weekly Underw 146:1138 My 16 '42

Insurer waives receipt of policy for change of beneficiary by impleading rival claimants. Weekly Underw 146:634 Mr 14 '42

Lay witnesses held qualified to testify regarding death of insured. Weekly Underw 147:199 Jl 25 '42

Life insurance court decisions. Nat Underw (Life ed) 45:33 D 12 '41

Limit legal fees; Surrogate's court of New York county acts on collection of seamen's insurance. Weekly Underw 147:131 Jl 18 '42

Misstatements denying treatment in hospital in application for life policy held fraudulent as matter of law. Weekly Underw 147:701 S 19 '42

Mutual's plan to speed death claims from war. East Underw 43:13 S 25 '42

Payment to wife's administrator held justified although time of survival insufficient to make proof of death. Weekly Underw 147:474 Ag 29 '42

INSURANCE, Life—Adjustment of claims—*Continued*

Probate court is now in session! demonstration of estate problems. J. F. O'Connell and others. Ins Field (Life ed) 71:14-16+ My 22 '42; Abstract. Nat Underw (Life ed) 46:27 Mr 13 '42

Public policy does not bar recovery by beneficiary of policy on life of one legally executed by state. Weekly Underw 146:1190 My 23 '42

Recovery of disability benefits denied where insured recovered prior to making proof of disability. Weekly Underw 146:161 Ja 10 '42

Status of foreign carriers' American funds; decision of New York Supreme court, Buxbaum and others v. Assicurazioni generale. Weekly Underw 146:469+ F 28 '42

Suffocation held not within clause exempting insurer from liability where death results from inhaling gas. Weekly Underw 145:1378 D 13 '41

Verdict for company bears on Missouri suicide law. Nat Underw (Life ed) 45:11 N 28 '41

Advertising

Advertising copy tips. J. A. Watkins. Weekly Underw 146:497 F 28 '42

Canada's institutional advertising. F. S. Kumpf. East Underw 43:38 pt 2 O 9 '42

Copy must show value of life insurance greater than cost. A. E. N. Gray. East Underw 43:14 Ap 3 '42

Hartford assn. starts institutional ad copy. East Underw 43:13 Ap 17 '42

Life institute films shown beneficial. East Underw 43:14 Mr 6 '42; Nat Underw (Life ed) 46:8 Mr 13 '42

Life insurance advertisers assn. plan exhibit by mail. East Underw 43:6 O 30 '42

Millions see these billboards; rotating bulletins of the Great-West Life. il East Underw 43: 86 pt 2 O 9 '42

1942 advertising by life companies in magazines of national circulation. L. J. Evans. East Underw 43:65+ pt 2 O 9 '42

People; thirty million individuals in lower and middle income brackets, maladjusted to present plan of life insurance distribution. T. J. V. Cullen. Spectator (Life ed) 149: 4-7, 59-61 S '42

Review of Prudential advertising. A. Fisk. East Underw 43:6+ F 27 '42

Tribute to retiring veteran life advertiser, Arthur A. Fisk. F. J. Price, jr. Weekly Underw 146:448 F 21 '42

See also Life insurance advertisers association

Advisers

See Insurance advisers

Agents

Accident and health insurance in demand; big opportunities for life underwriters. W. T. Hammer. Weekly Underw 146:52-6 sec 2 My 9 '42

Agency questions raised in TNEC report; abstracts. J. M. Holcombe, jr. Weekly Underw 145:1096+ N 8 '41; Nat Underw (Life ed) 45:1+ N 7 '41

Agent with service foremost in mind will weather storm. S. L. Levy. Nat Underw (Life ed) Daily ed 46:18 Ag 20 '42

Agents' job is important in defense. C. J. Zimmerman. Nat Underw (Life ed) 46:3+ F 20 '42

Agent's patriotic duty today; abstracts. C. L. Benner. Nat Underw (Life ed) 46:1+ Ja 23 '42; East Underw 43:1+ Ja 23 '42

Agents' role in Nation's emergency. J. H. Reese. East Underw 43:13 F 6 '42

Answers to objections and closing steps. E. L. Reiley; C. P. Dawson. Nat Underw (Life ed) 46:23 Ja 16 '42

Are we essential in wartime? D. Dowell. Ins Field (Life ed) 71:14+ O 23 '42

Are you doing a war time life underwriting job? I. Bendiner. Weekly Underw 147:522, 524+ S 5 '42

Backgrounds of some general agents. East Underw 43:3+ O 2 '42

Boomerang problems into successful action. O. J. Lacy. Nat Underw (Life ed) 46:3+ Ag 28 '42

Bureau study shows morale as cause of success as agent. W. Phelps. East Underw 42:8+ N 7 '41

Business is good; basis for optimism. R. Hodges. Ins Field (Life ed) 71:14 S 4 '42

Challenge to the fieldman; life underwriters in the first year of war. M. R. Orr. Ins Field (Life ed) 71:16+ F 20 '42

C.L.U. questions and answers; life insurance salesmanship. Ins Field (Life ed) 70:14-15 D 19; 18+ D 26 '41; 71:16 Ja 2 '42

Charting your course. H. Gardiner. Weekly Underw 147:990, 992 O 24 '42

Cites positive sales factors. W. S. Penny. Nat Underw (Life ed) 46:1+ My 29 '42

Client or policyholder, which shall it be? P. Dobson. Ins Field (Life ed) 71:16-18 Mr 6 '42

Comment made on meaning of designation "unfit agent." Nat Underw (Life ed) 45: 8+ N 21 '41

Contribution made by life insurance to the war effort; abstracts. W. E. Bixby. Nat Underw (Life ed) 46:19+ O 9 '42; Ins Field (Life ed) 71:24-5 O 9 '42

Courage, enthusiasm more essential than new ideas. K. G. Gumm. Nat Underw (Life ed) Daily ed 46:29 Ag 20 '42

Courting the job. R. E. Myer. East Underw 43:3+ Mr 13 '42

Day's uncertainties no insurance threat. W. B. Bailey. Nat Underw (Life ed) 46:3+ F 27 '42

Effective use of the telephone. J. C. McFarland. Nat Underw (Life ed) Daily ed 46: 24 Ag 20 '42

Experiences of an agent for one day. N. D. Phelps. Nat Underw (Life ed) 46:23 Ja 9 '42

Experiment of regional solicitation is made. Nat Underw (Life ed) 46:23 Jl 3 '42

Finley runs brokerage agency. East Underw 43:13 F 27 '42

Fire-casualty producers turn to life business. Nat Underw 46:18 S 3 '42; Same. Nat Underw (Life ed) 46:10 S 4 '42

Flowers and sunshine type of selling ineffective now. L. J. Zettler. Nat Underw (Life ed) 46:19 My 22 '42

Fundamentals are mental funds. S. Wertimer. Ins Field (Life ed) 71:14+ Ag 7 '42

Get excited and get results. H. S. Daily. Ins Field (Life ed) 70:16 D 19 '41

Gold book of life insurance selling. East Underw 43:9-124 pt 2 O 9 '42

Good and bad sides of trying pension trusts. A. J. Ostheimer, 3d. Nat Underw (Life ed) 46:2 Mr 20 '42

Harry T. Wright 19 years member of round table; 35 years in insurance. por East Underw 43:13 O 23 '42

How four leading producers sell under war conditions. T. B. Reed and others. Weekly Underw 146:58 sec 2 My 9 '42

How N. H. Johnson of Toledo wrote a million on estate survey plan. L. Flourney. East Underw 43:16 O 16 '42

How successful agents are working during these disjointed times; a symposium of interviews. Nat Underw (Life ed) 46:2+ S 25 '42

How to become a millionaire; qualifications for the round table. R. P. Burroughs. Spectator (Life ed) 148:13 Mr 12 '42

How to sell quality business. J. G. Oltorf. Ins Field (Life ed) 71:16-17 Ja 9 '42

How to sell the war worker. D. B. Westwater. Ins Field (Life ed) 71:16 S 25 '42

I'll take strangers; life underwriter who started as a cold canvasser. E. K. Giffin. Ins Field (Life ed) 71:14+ Ja 23 '42

Insurance agents should function as morale wardens. H. J. Johnson. East Underw 43: 14 O 16 '42

Insurance primary in war; abstracts. I. Bendiner. East Underw 43:11-12 O 23 '42; Nat Underw (Life ed) 46:19 O 23 '42

Is package selling on the way out? discussion of package selling vs. programming. Ins Field (Life ed) 71:14+ Ja 16 '42

INSURANCE, Life—Agents—*Continued*

Japanese agents, insured constitute problem on Coast. Nat Underw (Life ed) 45:28 D 19 '41

June examinations create 207 new C.L.U.'s; list. Nat Underw (Life ed) 46:4+ Jl 31 '42

Keep your chin up. S. Hoffman. Ins Field (Life ed) 71:16 Ag 14 '42

Leaders call for united efforts. H. J. Johnson and others. Ins Field (Life ed) Conv ed 71:14+ Ag 19 '42

Leading agencies of Connecticut General Life receive certificates. Weekly Underw 146: 969+ Ap 25 '42

Let's have qualified underwriters. A. B. Carroll, jr. Ins Field (Life ed) 71:14 S 11 '42

Life agents selling other lines of insurance coverage. Nat Underw (Life ed) 46:19 Jl 31 '42

Life agents' work in war time. J. S. Edwards. Ins Field (Life ed) Conv ed 71: 12-13 Ag 19 '42

Life insurance and morale; responsibility of the underwriter. W. H. Andrews, jr. Ins Field (Life ed) 71:14+ Jl 31 '42

Life insurance programs require checking to meet war's needs. Weekly Underw 146:91 sec 2 My 9 '42

Life insurance's part under war conditions; abstracts. J. L. Loomis. East Underw 43:11 O 16 '42; Nat Underw (Life ed) 46:5 O 16 '42

Life managers of New York city hold problems panel. East Underw 43:3 My 8 '42; Nat Underw (Life ed) 46:3+ My 8 '42

Life salesmen take advantage of war to increase income. Nat Underw (Life ed) 46:6, 10-11 Ja 2 '42

Life underwriter and the war. J. O. Todd. Weekly Underw 146:60-1, 80-2 sec 2 My 9 '42

Life underwriter of 1942 speaks. J. E. Puckette. Ins Field (Life ed) Conv ed 71:34 Ag 19 '42

Life underwriters should be thankful. J. H. Cowles. Weekly Underw 147:382 Ag 22 '42

Life's uncertainties still here; field men confronted with same human problems. T. M. Green. Nat Underw (Life ed) 46:15 Ag 21 '42

Look for new opportunities not the deterrents. G. H. Hunt. Nat Underw (Life ed) Daily ed 46:28+ Ag 20 '42

Make them think; planned sales talk. S. E. Martin. Ins Field (Life ed) 70:14-15+ N 14 '41

Marching orders for you; life underwriter should be like the farmer. H. E. Gidel. Ins Field (Life ed) 71:16 My 8 '42

Marketing life insurance. J. O. Stalson. 911p $6 Harvard univ. press '42; Review. Weekly Underw 146:446 F 21 '42; East Underw 43:7 F 20; 3+ F 27 '42; Ins Field (Life ed) 71:20 O 2 '42

Marshalling the facts of war; keep life insurance unshaken in American minds. H. J. Johnson. Weekly Underw 146:21-3+ sec 2 My 9 '42

Meet the optimistic life insurance agent. R. Sanborn. Ins Field (Life ed) 70:17+ D 26 '41

Meeting current objections. R. P. Innes. East Underw 43:5 Ja 16 '42

Meeting idea of changing economy; men of draft age. H. F. Silver. East Underw 43:3+ Mr 13 '42

Meeting the new production problems. E. E. Smith. Weekly Underw 147:386 Ag 22 '42

Membership record for Round table as 223 qualify. Nat Underw (Life ed) 46:3+ S 4 '42

Michigan to tighten up on license requirements. Nat Underw (Life ed) 45:4 N 21 '41

Million dollar round table men are optimistic. Nat Underw (Life ed) Daily ed 46:4+ Ag 19 '42

Mind of the salesman. L. G. Simon. Weekly Underw 146:630-1 Mr 14 '42

N.A.L.U. acts to aid agents. G. Taggart. Nat Underw (Life ed) 46:1+ O 30 '42

NALU condemns bank agencies in strong statement of principles sent companies. Weekly Underw 146:392+ F 14 '42; East Underw 43:9 F 13 '42; Nat Underw (Life ed) 46:1+ F 13 '42

National Life position in bank move. D. B. Slattery. Ins Field (Life ed) 70:8 D 19 '41

New easy way to sell; combination that clicks in wartime. M. H. Donchin. Ins Field (Life ed) 71:16+ O 30 '42

New savings reservoir; effect of the war on life insurance market. R. B. Coolidge. East Underw 43:8+ Ap 3 '42

No room for Maginot line defense complex in preserving homes and businesses. W. S. Penny. Nat Underw (Life ed) Daily ed 46:20-1+ Ag 18 '42

Now's the time for retrospective selling. R. Sanborn. Ins Field (Life ed) 70:17 N 14 '41

Oppose license bill; life agents in New York fear measure would develop one-case writers. Weekly Underw 146:766 Ap 4 '42

Ordinary life sales seem stuck on a dead center. J. F. Wohlgemuth. Nat Underw (Life ed) 46:6 Ag 14 '42

Ousting of poor quality producer is vital today. J. H. Evans. Nat Underw (Life ed) 45:3+ N 7 '41

Pearl Harbor and the carriage trade; war expenditures change buying field in life insurance. J. M. Gantz. Nat Underw (Life ed) 46:6-7 Mr 6 '42

Pension and profit sharing plans; situation today and its advantages to the agent. R. Stever. Ins Field (Life ed) 71:16, 19-20 Ap 17 '42

People; thirty million individuals in lower and middle income brackets, maladjusted to present plan of life insurance distribution. T. J. V. Cullen. Spectator (Life ed) 149: 4-7, 59-61 S '42

Performance of life insurance discussed before Philadelphia supervisors. W. K. Wise. Weekly Underw 146:746 Mr 28 '42

Picturing situations in color. Spectator (Life ed) 148:18-19 Je 4 '42

Plan and scram; key to continued success in wartime. D. Teachenor. Nat Underw (Life ed) Daily ed 46:8+ Ag 18 '42

Plan used by J. Elliott Hall agency to sell war industry workers. East Underw 43:3+ S 11 '42

Pointers on closing. B. D. Salinger. Weekly Underw 146:1368-70 Je 13 '42

Pointers on closing. W. A. Sullivan. Weekly Underw 147:101-4 Jl 11 '42

Points to remember when one is entering life insurance as a permanent vocation. R. W. Weathers. Nat Underw (Life ed) 46:23 S 4 '42

Positive action needed today. O. J. Arnold. Weekly Underw 147:149 Jl 18 '42

Practical prestige building. N. D. Maxcy. Weekly Underw 147:582-3 S 12 '42

Pre war clause sales campaign. C. E. Seay. Ins Field (Life ed) 71:16 Mr 20 '42

Present agency situation. J. A. Stevenson. Weekly Underw 145:1061+ N 8 '41

Professional status demands advice be sound, unselfish. C. P. Peterson. Nat Underw (Life ed) 46:23 Mr 20 '42

Professionalism in selling life insurance. R. L. Barbour. Ins Field (Life ed) 71:6 Mr 20 '42

Profits and losses in selling. R. Sanborn. Ins Field (Life ed) 70:21 D 12 '41

Programming of average and large estates. P. E. Orr, jr. and M. M. Goldstein. Nat Underw (Life ed) 46:4 F 27 '42

Prospects more serious this year, sales congress is told. P. C. French; D. Teachenor; H. A. Hedges. Nat Underw (Life ed) 46: 7+ Ja 30 '42

R. E. Myer heads noted N.Y.C. mutual agency. East Underw 42:5+ N 28 '41

Rate book men seen by outsider. H. L. Wells. Nat Underw (Life ed) 46:7 Jl 31 '42

Realism and energy demanded in facing war time job. E. M. Schwemm. Nat Underw (Life ed) 46:23 My 15 '42

Reminiscences of a rookie. B. Klein. Ins Field (Life ed) 71:18+ Je 26 '42

INSURANCE, Life—Agents—*Continued*

R & R course in advanced salesmanship. 4v $9.50 Insurance research and review service, Indianapolis '41

Round table qualifiers now number 113; list. Nat Underw (Life ed) 46:1 Jl 17 '42

Saga of west Texas. A. B. Hays. Ins Field (Life ed) 71:14+ Jl 10 '42

Sales ideas and suggestions. Published in weekly numbers of National underwriter (Life ed)

Sales philosophy. A. E. N. Gray. East Underw 43:18 N 6 '42

Selected sales suggestions from top producer. T. B. Reed. Spectator (Life ed) 148:18 Ja 15 '42

Selling in a shifting market; abstracts. R. E. Fuller. Ins Field (Life ed) 71:26-7 O 9 '42; Nat Underw (Life ed) 46:19+ O 9 '42; Weekly Underw 147:876+ O 10 '42

Selling insurance to defense workers. H. C. Innes. Nat Underw (Life ed) 46:11 S 11 '42

Selling the war worker. A. C. Collins. Ins Field (Life ed) 71:14 Jl 24 '42

Selling with a war clause. C. P. Hilton. Ins Field (Life ed) 71:18-19 Mr 27 '42

Selling yourself on, not off, to meet future under wartime conditions. V. B. Coffin. Nat Underw (Life ed) Daily ed 46:5+ Ag 18 '42

Six successful producers present ideas in Peoria. Nat Underw (Life ed) 46:19 O 30 '42

Slants on social security and life insurance. C. W. Hall. Weekly Underw 147:374-7+ Ag 22 '42

Some Brooklyn agencies among oldest in city. I. Davis. East Underw 43:3+ F 13 '42

Some pungent success recipes. T. B. Reed. Nat Underw (Life ed) 46:19 Je 19 '42

Stay in there and pitch; life underwriter's attitude in time of war. L. R. Johnson. Ins Field (Life ed) 71:18-19 Ap 24 '42

Stepping up sales efficiency. W. R. Jenkins. Nat Underw (Life ed) Daily ed 46:5+ Ag 19 '42

Successful selling. Published in weekly numbers of Insurance field (Life ed)

Successful underwriters of the day; vital virtues that must enter into the 1942 model. W. C. Schuppel. Nat Underw (Life ed) 46:2+ S 4 '42

Teaching the prospect to recognize the situation. C. O. Fischer. Spectator (Life ed) 148:6-9+ F 26 '42; Same abr. Ins Field (Life ed) 71:17-18 F 13 '42

30 years of productive selling. G. W. Bilton. Ins Field (Life ed) 71:14-17 Ag 28 '42

Those who have the courage. R. R. Lee. Ins Field (Life ed) 71:20+ N 6 '42

Three important agency changes in Mutual Life. Nat Underw (Life ed) 45:1+ N 28 '41

Three magic words; short cut to success. F. A. McMaster. Ins Field (Life ed) 71:16+ O 16 '42

Through the field glasses; California's quarter million dollar round tablers survey. Ins Field (Life ed) 71:15 Mr 6 '42

Timing is important in soliciting farm business. T. E. Berry. Nat Underw (Life ed) 46:23 Ja 2 '42

To continue Ives & Myrick name; Mutual Life agency. East Underw 43:3 Ja 23 '42

Treble duty dollars in today's optional spending power. F. R. Amthor. East Underw 43:80+ pt 2 O 9 '42

Tried and tested plans for selling life insurance. H. A. Menkes, ed. 213p $2 Magnum pub. co, New York '42

Try to block that objection. R. Sanborn. Ins Field (Life ed) 70:15 N 7 '41

Two decades of analysis and improved techniques; abstracts. H. G. Kenagy. East Underw 42: 14+ N 7 '41; Weekly Underw 145:1097+ N 8 '41

Underwrite economic ideas and plans of prospect. R. R. Roberts. Nat Underw (Life ed) 46:11 S 25 '42

Underwriters employ war bonds and life insurance as effective weapons on economic battlefront. J. A. Witherspoon. Weekly Underw 146:24-6+ sec 2 My 9 '42

Use of telephone for sales work saves much time. H. T. Wright. Nat Underw (Life ed) 46:23-4 Ag 28 '42

Vetoes bill barring bank agencies in New York. Nat Underw (Life ed) 46:4 My 29 '42

Views on need of objectives. A. J. McAndless. Nat Underw (Life ed) 46:31+ O 2 '42

Volume will take care of itself by concentrating on applications. J. H. Goode. Ins Field (Life ed) 71:18 Ag 14 '42

Wage earners market is there. H. A. Hedges. Nat Underw (Life ed) Daily ed 46:8+ Ag 20 '42

War proving a challenge to underwriters. S. P. Davis. Weekly Underw 147:370-1+ Ag 22 '42

War situation offers real challenge to agent. R. L. Hesse. Nat Underw (Life ed) Daily ed 46:20-1 Ag 20 '42

Watching the home front. A. W. Tompkins. Nat Underw (Life ed) 46:20 S 11 '42

We, the salesmen! Ins Field (Life ed) 71:17 Ja 2 '42 [cont weekly]

What C. L. U. study has done for me. J. H. Ardrey. Ins Field (Life ed) 71:14+ S 18 '42

What do you think about it? more reasons why life insurance should be owned. L. W. Bosworth. Nat Underw (Life ed) Daily ed 46:8 Ag 19 '42

What it takes to succeed today. J. H. Sharpe. Ins Field (Life ed) 71:16 Ag 7 '42

What makes people buy. E. L. Reiley. Weekly Underw 147:297-9+ Ag 8 '42

What price objectives. R. Sanborn. Ins Field (Life ed) 71:20 F 13 '42

What qualities constitute a millionaire producer? luncheon in honor of Raymond W. Frank. Nat Underw (Life ed) 46:4 My 1 '42

What should an agent do under certain conditions? T. E. Berry. Nat Underw (Life ed) 45:23 D 5 '41

Will they come back? insurance agents in the armed services. R. Sanborn. Ins Field (Life ed) 71:15 Je 12 '42

Winning the economic war; life underwriter can help. M. Nadler. Ins Field (Life ed) 71:16 Ap 24 '42; Same abr. Spectator (Life ed) 148:6+ Ap 23 '42; Abstract. Nat Underw (Life ed) 46:4 Ap 24 '42

Woods company agency, Pittsburgh, being dissolved. Nat Underw (Life ed) 46:2 My 8 '42

Woods Pittsburgh agency a company in itself. Ins Field (Life ed) 71:10 Ja 9 '42

Writing life business under war conditions. S. C. H. Taylor. East Underw 43:4+ My 15 '42

You are an underwriter—so what? G. S. McCarter. Ins Field (Life ed) 71:14+ Ap 10 '42

See also
Banks and banking—Insurance selling
Insurance, Life—Prospects
also National association of life underwriters

Advance cards and letters

Oh, yes! you're the man who; direct-mail, printed introduction. R. Sanborn. Ins Field (Life ed) 71:15+ Ja 16 '42

Agency management

Agents as important as triple A securities; abstracts. F. F. Weidenborner. Weekly Underw 145:1363 D 13 '41; Nat Underw (Life ed) 45:9+ D 12 '41; East Underw 42:46 D 12 '41

Bringing agent into participation in agency management. I. Davis. East Underw 43:3+ S 4 '42

How some New York agencies with monthly increases maintain production. I. Davis. East Underw 43:3 Jl 31 '42

Modern life insurance agencies; Allen & Schmidt agency, New York, New England Mutual Life. W. A. Hamlin. il Spectator (Life ed) 149:22-7 S '42

Modern life insurance agencies; Charles B. Knight agency, inc., New York. W. A. Hamlin. Spectator (Life ed) 149:34-9, 78-9 Jl '42

INSURANCE, Life—Agents—Agency management—*Continued*

Modern life insurance agencies; Harry Gardiner agency, New York, the John Hancock Mutual Life. W. A. Hamlin. il Spectator (Life ed) 149:48-53, 68 N '42

Modern life insurance agencies; Home office agency of the Penn Mutual Life. W. A. Hamlin. il Spectator (Life ed) 149:50-8 Ag '42

Modern life insurance agencies; New England branch office of the New York Life, Boston. W. A. Hamlin. il Spectator (Life ed) 149:52-7 O '42

Morale in general agencies. R. W. Hoyer. East Underw 43:3+ Mr 20 '42

Motivation consists of implanting ideas that drive. L. W. S. Chapman. Nat Underw (Life ed) 45:31 N 7 '41

New York City Managers making survey of agency operations. Nat Underw (Life ed) 46:3+ Jl 31 '42

Newark managers take action to combat morale slump. R. B. Mitchell. Nat Underw (Life ed) 46:2 Ag 7 '42

Personal production from supervisors aids agency morale. C. J. Zimmerman. Nat Underw (Life ed) 45:3 N 28 '41

Recruiting and prospecting viewed at Pennsylvania managers' parley. Nat Underw (Life ed) 45:2+ N 21 '41

Specific techniques for general agents needed. W. C. Laird. Nat Underw (Life ed) 45:7 N 7 '41

Time of great testing now: war's challenge to agency management. F. H. Haviland. Nat Underw (Life ed) 46:3 F 6 '42

Unsuccessful agent a handicap to agency. C. O. Fischer. East Underw 43:13 My 15 '42

Views on today's sales plans. E. C. McDonald. East Underw 43:4+ Je 5 '42

Ways to motivate agents. L. W. S. Chapman. Weekly Underw 146:1028 My 2 '42

Work of a football coach; what has been accomplished in rural Minnesota. E. L. Roney. Nat Underw (Life ed) 46:6 Ag 21 '42

Approach

Building approaches that sell interviews. H. W. Baird. Weekly Underw 145:1372-3 D 13 '41

One in a ship-yard; approach to the new market. Ins Field (Life ed) 71:17 Mr 27 '42

Only two ways of arousing interest. A. E. N. Gray. Spectator (Life ed) 148:7-8+ Ap 23 '42

Science in the approach; new approach plans of Provident mutual life are resulting in more sales. F. C. Crowell, jr. Ins Field (Life ed) 71:14-16+ F 27 '42

Social security as I use it. W. A. Gee. East Underw 43:88 pt 2 O 9 '42

Associations

Metropolitan now has association of CLU's. East Underw 43:9 S 18 '42

Automobile problem

Auto restriction forces change in methods; Phoenix Mutual questionnaire results. Nat Underw (Life ed) 46:4 O 23 '42

First official word on N.A.L.U. gas ration survey. Ins Field (Life ed) 71:8 N 6 '42

Gas rationing found to have many sales benefits. Nat Underw (Life ed) 46:27-8 N 6 '42; Same abr. East Underw 43:7 N 6 '42

Gasoline rationing and the agent. O. J. Arnold. Ins Field (Life ed) 71:22-4 N 6 '42

Handling the gas rationing problem. I. Davis. East Underw 43:44 pt 2 O 9 '42

New plans worked out to meet gas, rubber shortages; Metropolitan Life eases rules for agents. Nat Underw (Life ed) 46:3+ O 30 '42

Commissions

Agents' compensation is hot topic; report at meeting of N.A.L.U. H. T. Wright. Spectator (Life ed) 148:13+ Ap 9 '42

Commissions included under $25,000 salary limitations order. East Underw 43:1+ O 30 '42

Daring innovation in compensation; unique agents' contract introduced by Commonwealth. Ins Field (Life ed) 71:9 Ag 14 '42; Nat Underw (Life ed) 46:9 Ag 14 '42

Decision given on commissions on term conversion. Nat Underw (Life ed) 46:4 Ja 16 '42

Denies CIO union's contract claim; John Hancock Mutual Life plan for debitmen. Weekly Underw 146:173+ Ja 17 '42; Excerpt. East Underw 43:6 Ja 16 '42

New agency contract and pension program for Bankers life of Iowa. Nat Underw (Life ed) 46:3+ Ja 16 '42

New England Mutual sets up program of security for field. G. W. Smith; G. L. Hunt. East Underw 43:1+ My 22 '42; Same. Nat Underw (Life ed) 46:3+ My 22 '42

Northwestern National arranges commissions for men in the armed services. Weekly Underw 147:760 S 26 '42

Progress in new compensation plan for agents. H. T. Wright. East Underw 43:12 Ag 21 '42

State Mutual's compensation-retirement plan. East Underw 43:3 Je 26 '42; Same. Nat Underw (Life ed) 46:1+ Je 26 '42

Treasury suggests amendment to sec. 42 on accrued income. East Underw 43:1+ Mr 13 '42

War allowance of 7½ per cent for field men of Acacia mutual. Nat Underw (Life ed) 46:7 O 9 '42

Company relations

Fieldmen feel lack of full support from executives. G. Taggart. East Underw 43:8 O 9 '42

How do you feel about it? agent in war time. R. Sanborn. Ins Field (Life ed) 71:17 Ap 17 '42

Humanistic attitude of John Hancock in dealing with general agents. J. H. Wood. Nat Underw (Life ed) 45:27-8 N 7 '41

Independence proclamation; licensed agents should be privileged to place insurance with any company licensed in the state. R. Sanborn. Ins Field (Life ed) 71:15 Jl 3 '42

Lincoln completes third of unique trips meeting field forces. East Underw 43:3 Jl 17 '42

New committees join Penn Mutual councils. J. A. Stevenson. Weekly Underw 146:1078 My 9 '42

New York Life adopts benefits plan for agents in service. East Underw 43:1+ Ap 24 '42

Contracts

How to compute cost in agents' contracts. R. C. Guest and E. M. McConney. East Underw 43:10 O 30 '42

Insurance for agents

Minnesota Mutual installs group and higher pay plan. Nat Underw (Life ed) 46:2 Jl 10 '42

Letters to prospects

Methods, results of direct mail use. N. White. Nat Underw (Life ed) 46:23 F 20 '42

Science in the approach; new approach plans of Provident mutual life are resulting in more sales. F. C. Crowell, jr. Ins Field (Life ed) 71:14-16+ F 27 '42

Offices

George Spelvin, average New Yorker, finds Manhattan Life's insurance store helpful. R. L. Barbour. Ins Field (Life ed) 71:6 Ap 10 '42

Part-time agents

Agency practices pact is subjected to much strain. Nat Underw (Life ed) 46:3-4 Je 5 '42

National, Vt. tells its attitude. Nat Underw (Life ed) 46:10 Je 12 '42

Part-timer issue; agent entering defense job. Nat Underw (Life ed) 46:2+ Ap 3 '42

To protect part-time contracts of agents. East Underw 43:5 Jl 10 '42; Same. Nat Underw (Life ed) 46:1 Jl 10 '42

INSURANCE, Life—Agents—Part-time agents —*Continued*

War dislocations raise problems in agency practices. C. D. Connell. East Underw 43:11 Ag 21 '42; Excerpts. Nat Underw (Life ed) Daily ed 46:22 Ag 18 '42

Pensions

Home Life's annuity plan for field force and general agents. East Underw 43:4 My 22 '42; Nat Underw (Life ed) 46:2 My 22 '42

John Hancock contributory retirement plan for agents effective Jan. 1, 1942. East Underw 43:6 Je 26 '42; Nat Underw (Life ed) 46:1 Je 26 '42

John Hancock sets up special compensation for agents at 65. East Underw 42:1+ D 19 '41

Nearly 40 companies have agents' pension programs; abstracts. H. T. Wright. Nat Underw (Life ed) Daily ed 46:10 Ag 18 '42; East Underw 43:12 Ag 21 '42

New England Mutual sets up program of security for field. G. W. Smith; G. L. Hunt. East Underw 43:1+ My 22 '42; Same. Nat Underw (Life ed) 46:3+ My 22 '42

Retirement plan of Guardian Life is distinctive. Nat Underw (Life ed) 46:1+ N 6 '42; Weekly Underw 147:1102 N 7 '42

State Mutual has new compensation-retirement plan. Nat Underw (Life ed) 46:1+ Je 26 '42

Public relations

Public opinion; opinion of the man on the street on life insurance. Spectator (Life ed) 149:54-6 Jl '42

Salaries

Financial inducements offered by general agents to new producers should be carefully considered. Ins Field (Life ed) 71:10 Mr 20 '42

Sales conventions

Chicago sales congress has many fine features. Nat Underw (Life ed) 46:23-4 Ap 24 '42

Connecticut state sales congress is full of meaty talk. Nat Underw (Life ed) 46:3+ Ap 24 '42

Illustrated talks feature Penn Mutual conference regarding marketing principles. Weekly Underw 147:1029 O 31 '42

Life agents of New Jersey hold sales congress. East Underw 43:3+ Je 12 '42

New York agencies of Northwestern Mutual discuss the market of 1942. East Underw 43:3-4+ Jl 24 '42

New York sales congress of the Life underwriters association of New York. East Underw 43:3+ Mr 13 '42; Weekly Underw 146:618 Mr 14 '42; Nat Underw (Life ed) 46:1+ Mr 13 '42

New York state association sales congress, Buffalo. East Underw 43:7 My 22 '42

Pattern for production panel held in San Francisco. Nat Underw (Life ed) 46:9 Mr 6 '42

Regional rallies replace N.W. Mutual convention; agents hear practical ideas. Nat Underw (Life ed) 46:3+, 19 Jl 24 '42

Sales efficiency stressed at Iowa congress. Nat Underw (Life ed) 46:27-8 Je 12 '42

Westchester sales congress at Bronxville. East Underw 43:8 Ap 3 '42

Whether to hold conventions being studied. Nat Underw 46:6 Ja 1 '42

Selection

Can recruit good agents, sell policies. B. N. Woodson; L. W. S. Chapman. Nat Underw (Life ed) 46:12-13 O 9 '42

Canadian recruiting problem is much intensified. M. S. Crockford. Nat Underw (Life ed) 46:1 Ap 17 '42

Canadian recruiting trends; chart. J. M. Holcombe, jr. East Underw 43:4 Je 5 '42

Companies wary in recruiting those displaced by war. Nat Underw (Life ed) 46:20 Mr 20 '42

General insurance man is wooed. Nat Underw 46:3 Ag 6 '42; Same. Nat Underw (Life ed) 46:7 Ag 21 '42

Many high class salesmen available to life agencies. W. M. Rothaermel. Nat Underw (Life ed) 45:13 N 7 '41

Minnesota Mutual parley; advertising results show plenty of salesmen are available. Nat Underw (Life ed) 46:6 O 2 '42

New York seminar is devoted to problem of recruiting agents. Nat Underw (Life ed) 45:31 D 19 '41

Public opinion; why is it that life companies have difficulty in attracting salesmen? T. H. Prendergast. Spectator (Life ed) 149: 10-12 N '42

Recruiting manpower in today's market. H. F. Gray. Weekly Underw 147:384-5 Ag 22 '42

Recruiting problem becomes paramount in wartime. J. S. Smith. Nat Underw (Life ed) Daily ed 46:28 Ag 18 '42

Recruiting problem under war conditions; Michigan management congress. Nat Underw (Life ed) 46:13 Ja 30 '42

Recruiting requisite in maintaining an agency today; gauge progress by getting good men. J. S. Braunig. Nat Underw (Life ed) 46:2 S 11 '42

Recruiting still can be successful. Nat Underw (Life ed) 46:2 Jl 17 '42

Solving life insurance man power problem. J. M. Holcombe, jr. Weekly Underw 146: 38-42 sec 2 My 9 '42

Some constructive thoughts about recruiting. R. L. Barbour. Ins Field (Life ed) 71: 6-7 Je 5 '42

Tantalizing opportunity seen; appointing persons engaged in war industries. Nat Underw (Life ed) 46:6 My 22 '42

Today's inside picture of a life agency; recruitingwise. D. Wimmer. Ins Field (Life ed) 71:8 Jl 31 '42

Value of an agent; abstracts. F. H. Haviland. Nat Underw (Life ed) 45:6 N 7 '41; East Underw 42:8 N 7 '41

West Coast Life finds aptitude tests cut agent turnover. W. L. Hardy. Sales Management 50:60+ F 1 '42

Service

Agents rendering service to clients entering army. Nat Underw (Life ed) 46:2 S 18 '42

Agent's responsibility in changing economic scene. H. D. Shaw. East Underw 43:100 pt 2 O 9 '42

Great opportunity in solving problems; service pays big dividends. F. J. Rubenstein. Nat Underw (Life ed) Daily ed 46:4 Ag 20 '42

Help with a will. R. Sanborn. Ins Field (Life ed) 71:17 Mr 20 '42

How the life associations sell defense bonds. il East Underw 43:3-4 Mr 6 '42

Insurance in a changing world; abstracts. E. C. Stone. East Underw 43:37-8 Ap 10 '42; Weekly Underw 146:821+ Ap 11 '42

Life underwriter girds for war. J. F. Nufer. Ins Field (Life ed) 71:16 S 4 '42

Perfects Conservator plan. C. R. Corcoran. Ins Field (Life ed) 70:18 N 28 '41

Policyholders and success; underwriter must service and cultivate policyholders. F. C. Crowell, jr. Ins Field (Life ed) 70:14-17 N 21 '41

Professional attitude. W. P. Worthington. Nat Underw (Life ed) 45:31 D 12 '41

Rendering service is key to sales. C. L. McMillen. Nat Underw (Life ed) 46:1+ O 23 '42

Sets up budget for prospect. P. Orr. Nat Underw (Life ed) 46:10 S 11 '42

250 New York insurance men selling defense bonds. East Underw 43:5 Ja 16 '42

War program would be greatly curtailed were life underwriters not on the job. R. L. Barbour. Ins Field (Life ed) 71:6 Ag 21 '42

We, the salesmen! heir-aid warning. R. Sanborn. Ins Field (Life ed) 71:15+ Ja 23 '42

Service fees

California rules on program fee charge. East Underw 43:11 Ap 10 '42

INSURANCE, Life—Agents—*Continued*

Training

Accent on education; analysis of New York Life's new educational program for agents. F. C. Crowell, jr. il Ins Field (Life ed) 71:14-15+ Jl 17 '42
Advanced course in salesmanship sponsored by New York City association. East Underw 42:15 N 21 '41
Can recruit good agents, sell policies. B. N. Woodson; L. W. S. Chapman. Nat Underw (Life ed) 46:12-13 O 9 '42
Educational plans of life men; National Association and Agency officials take joint action. Weekly Underw 145:1389+ D 20 '41; East Underw 42:6 D 19 '41
Facts and figures show thorough training pays; methods of London Life. W. F. Thorne. Nat Underw (Life ed) 46:18+ O 9 '42
Intermediate training course endorsed by Life agency officers. Nat Underw (Life ed) 45:1+ N 14 '41
Kansas City Life presents a realistically new streamlined training course for agents. Ins Field (Life ed) 71:10 N 6 '42
New York Life's new course a milestone in education. Nat Underw (Life ed) 46:1+ Ap 10 '42; East Underw 43:3+ Ap 10 '42
Promising future for career life underwriters; value of C.L.U. movement. D. McCahan. Weekly Underw 146:44-5+ sec 2 My 9 '42
Specific techniques for general agents needed. W. C. Laird. Nat Underw (Life ed) 45:7 N 7 '41
Training of agents required in Michigan; other department regulations. Nat Underw (Life ed) 46:1 F 6 '42

Women agents

Agents' job is to save institution. B. Jones. Nat Underw (Life ed) 46:10 F 13 '42
Big future for women in life insurance. B. M. Boyd. Weekly Underw 147:390 Ag 22 '42
Career woman: Dorothy Wakerley. E. E. Gesner. Ins Field (Life ed) 71:30 Ap 3; 22 Ap 10 '42
Desire for security marks present day insurance market. S. Hoffman. Nat Underw (Life ed) Daily ed 46:4+ Ag 18 '42
Difficult times are good times for underwriters. M. H. Boott. Weekly Underw 147:372-3 Ag 22 '42
From cashier to Million dollar round table; Ethel Elmer. L. Sinton. por East Underw 43:73 pt 2 O 9 '42
How Women's round table got its start. C. V. Loomis. Ins Field (Life ed) 71:26 S 25 '42
Meet Deborah Lewin. E. Gesner. por Ins Field (Life ed) 71:26 Ap 17; 26 Ap 24 '42
Sara Frances Jones. E. E. Gesner. por Ins Field (Life ed) 71:26 F 20; 22 F 27 '42
Sis Hoffman now life millionaire. Nat Underw (Life ed) 46:7 Jl 3 '42
Some qualities favor women as agents and prospects. L. L. Hedden. East Underw 43:24 N 6 '42
Successful insurance women alert to new fields of gainfully employed women. pors East Underw 43:32-3 pt 2 O 9 '42
Successful woman producer adjusts efforts to times. B. M. Boyd. Nat Underw (Life ed) Daily ed 46:27 Ag 20 '42
Way war affects program of women's division of N.A.L.U. E. Matthews. East Underw 43:13 Ag 21 '42
What about women agents? opinions of experts. J. M. Holcombe. Nat Underw (Life ed) Daily ed 46:4+ Ag 19 '42
Woman makes good as life insurance agent in New York; Louise R. Evangelist. Nat Underw (Life ed) 46:4 Ag 21 '42
Women can sell insurance in war period. L. L. Joseph. Weekly Underw 147:378-9 Ag 22 '42
Women's division of N.A.L.U. sponsors forum plan. R. L. Barbour. Ins Field (Life ed) 71:14 Ap 3 '42
Women's quarter million dollar round table completes seven years of service to insurance. Ins Field (Life ed) 71:22 Ag 21 '42

Agents' wives

Captain Harry Phillips' wife pinchhitting as a life agent. W. L. Clapp. East Underw 43:60 pt 2 O 9 '42
Engelsman course for wives of his agents. East Underw 43:6 Ap 17 '42
Life underwriter wives can support their husbands' professional status. K. W. Ford. Weekly Underw 146:74 sec 2 My 9 '42

Annuities

See Annuities

Applications

Applications declined and accepted in 1941; tabulation. Weekly Underw 146:88 sec 2 My 9 '42
Rules on evidence of age are revised; Sun life of Canada requirements. Nat Underw (Life ed) 46:1+ Ag 21 '42

Automobile death claims

Automobile death claims experience of United States and Canadian life insurance companies, 1941; tabulation. Spectator (Life ed) 149:7 pt 2 S '42

Aviation risks

Double indemnity case involved airplane crash. Nat Underw (Life ed) 46:11 O 23 '42; Weekly Underw 147:1226 N 21 '42
Metropolitan's war and aviation rider effective Nov. 14. Nat Underw (Life ed) 45:1+ N 14 '41
Minnesota aviation rider law not validly enacted, Supreme court holds. Nat Underw (Life ed) 46:9 Je 26 '42
Minnesota war clause; Supreme court permits companies to write aviation exclusion riders. East Underw 43:5 Mr 6 '42
Prudential adopts new war and aviation clause. Nat Underw (Life ed) 46:3+ O 2 '42
Veterans bureau policy on air exclusion clauses. Nat Underw (Life ed) 46:4 Ap 10 '42

Bibliography

Index to publications of the Life office management association, 1924-1941. 137p $3 Life office management assn, 110 E. 42d st, New York '42

Biography

Hall of fame in life insurance. Spectator (Life ed) 149:16-18+ Jl '42 [cont monthly]
We have with us today; interesting personalities in the life insurance business. East Underw 42:14-15 D 12 '41

Business beneficiaries

See Insurance, Business

Children's policies

Juvenile insurance a big field often overlooked. N. S. Barrows. Nat Underw (Life ed) Daily ed 46:30 Ag 20 '42
Legal aspects of juvenile insurance C. L. Peterson. Nat Underw (Life ed) 46:5 My 29 '42
Maryland Life issues insurance for juniors. Spectator (Life ed) 147:27 N 20 '41
Sell juvenile insurance. T. F. Dow. Ins Field (Life ed) 71:14+ Je 12 '42

Cost

Average annual net cost history of ordinary life policies issued in 1922 per $1,000; tabulation. Spectator (Life ed) 149:28-9 pt 2 S '42
Life insurance cost rise probable. H. C. Bates. Weekly Underw 147:441+ Ag 29 '42
Net cost picture shown to be better than in last war. Nat Underw (Life ed) 46:5 Jl 10 '42

Disability provisions

Annuity disability, double indemnity results in 1941; annual statements filed with New York department. R. B. Mitchell. Nat Underw (Life ed) 46:4+ Mr 6 '42
Companies' stand where war nullifies disability; abstracts. R. E. Moyer. East Underw 43:6+ Je 12 '42; Nat Underw (Life ed) 46:6 Je 12 '42

INSURANCE, Life—Disability provisions—*Cont.*

Effect of war on old $10 disability clauses is studied. Nat Underw (Life ed) 46:1 F 6; 3 F 13 '42

Hidden values in your life insurance; disability benefits provide extra protection, but have limitations. B. W. Levmore. Barron's 22:13 Ap 13 '42

Metropolitan acts on disability cover of soldiers. Nat Underw (Life ed) 46:9 Mr 27 '42

New York Court of appeals acts on Equitable case; decision on money judgment under disability policies. East Underw 43:20 Ag 21 '42

Recovery of disability benefits denied where insured recovered prior to making proof of disability. Weekly Underw 146:161 Ja 10 '42

Surveys war provisos in disability clause; abstracts. J. R. Burcham and P. McHaney. East Underw 43:7+ Ag 28 '42; Nat Underw (Life ed) 46:20 Ag 28 '42

Double indemnity provisions

Companies' stand where war nullifies disability; abstracts. R. E. Moyer. East Underw 43:6+ Je 12 '42; Nat Underw (Life ed) 46:6 Je 12 '42

Eyewitness clause places burden on beneficiary of showing existence of eyewitness of shooting. Weekly Underw 146:1138 My 16 '42

Economic aspects

Agents must grasp vital role of life insurance today. V. L. Bushnell. Nat Underw (Life ed) 46:3+ F 6 '42

Agents should be told why picture is encouraging. V. L. Bushnell. East Underw 43:4+ Mr 27 '42

Company heads tell significance to Nation of life insurance in these critical times. G. W. Smith and others. East Underw 43:18, 20, 22+ pt 2 O 9 '42

Contribution made by life insurance to the war effort. W. E. Bixby. Nat Underw (Life ed) 46:19+ O 9 '42

Defending the American dollar; life insurance a vital medium for checking inflation. M. A. Linton. Weekly Underw 146:1240-3, 1298, 1300-1, 1358, 1360-2 My '30-Je 13 '42

Diverting dollars. W. B. Bailey. Weekly Underw 146:33-4 sec 2 My 9 '42

Effective war aid by life insurance. R. L. Hogg. Weekly Underw 146:1321+ Je 13 '42

Fear of inflation excuse for not buying life insurance analyzed. S. M. Foster. Weekly Underw 147:688+ S 19 '42

For premiums free of income tax. R. Magill. Nat Underw (Life ed) 46:1+ My 22 '42

Great importance of life insurance in the Nation's war effort. R. H. Kastner. East Underw 43:9-10+ pt 2 O 9 '42

Life insurance and the war. G. S. Nollen. East Underw 43:28 pt 2 O 9 '42

Life insurance and war finance. A. J. McAndless. East Underw 43:30 pt 2 O 9 '42

Life insurance companies have added importance in national economy in war time. L. H. Pink. Comm & Fin Chr 155:2310 Je 18 '42

Life insurance industry should do all in its power to contain forces of inflation. R. L. Barbour. Ins Field (Life ed) 71:8 Jl 24 '42

Life insurance protecting nation's economy makes supreme war effort possible. L. H. Pink. Weekly Underw 146:27 sec 2 My 9 '42

Life insurance seen as valiant foe of inflation. A. E. Patterson. Comm & Fin Chr 156:979 S 17 '42

National use for savings; mortgage banks and other economic services of financial institutions. L. H. Pink. Trusts & Estates 74:557-8 Je '42

Role of life companies in financing the war. H. C. Sauvain. East Underw 43:82+ pt 2 O 9 '42

Saving vital to nation now and for post-war period. A. de Haas. East Underw 43:12 Je 5 '42

$7,100,000,000 of policyholders' funds are building planes and war equipment; advancing social and spiritual welfare. V. P. Whitsitt. il Weekly Underw 146:28-9 sec 2 My 9 '42

Surplus income is packed with economic dynamite. E. T. Golden. Nat Underw (Life ed) 46:23 Je 5 '42

Talks to higher bracket Equitable people; what life folks are doing to benefit country. T. I. Parkinson. Nat Underw (Life ed) 46:1+ My 15 '42

Treasury wants more life insurance bought. B. C. Clarke. Ins Field (Life ed) 71:5-6+ O 30 '42

Underwriters employ war bonds and life insurance as effective weapons on economic battlefront. J. A. Witherspoon. Weekly Underw 146:24-6+ sec 2 My 9 '42

War bonds or life insurance? B. J. Perry. Ins Field (Life ed) 71:16, 18-19 Je 5 '42; Same abr. East Underw 43:3+ Je 5 '42; Abstract. Nat Underw (Life ed) 46:3 Je 5 '42

Endowment policies

Hidden values in your life insurance; ordinary life contracts are in essence endowments for the whole of the buyer's life. B. W. Levmore. Barron's 22:8 Mr 23 '42; Discussion. Nat Underw (Life ed) 46:3 Mr 27 '42

Monthly premium endowment forms by Metropolitan Life. J. H. Rader. Nat Underw (Life ed) 46:23 My 29 '42

See also Insurance, Life—Retirement income policies

Estate protection

Estate guard; three cases. H. W. Ladd. Spectator (Life ed) 149:19-20 S '42

Estate of $56,222 needed to equal $50,000 in 1932. D. Friedman. Nat Underw (Life ed) 46:9 Jl 10 '42

Grandfather to grandchild gifts, with example. J. O. Todd. East Underw 43:84+ pt 2 O 9 '42

Insurance now more vital than ever in creating and conserving estates. P. F. Millett; R. F. Spindell. Nat Underw (Life ed) 45:9 D 12 '41

Life insurance and the income tax. J. B. Lowe and J. D. Wright. Banking 34:48-50 Mr '42

New business life insurance plan; master contract plan designed to serve growing needs. R. O. Bickel. Trusts & Estates 74:585-9 Je '42

Perfects Conservator plan. C. R. Corcoran. Ins Field (Life ed) 70:18 N 28 '41

Reducing estate transfer costs offers opportunity. W. R. Spinney. Nat Underw (Life ed) 46:27-8 Ap 3 '42

Selling under the new tax law. W. H. Fissell. Spectator (Life ed) 149:14-15 N '42

Family group policies

Consumers reports assails family group bargains. E. A. Gilbert. Nat Underw (Life ed) 46:7 Ag 14 '42

Sins of omission in cheap policies cited; abstracts. P. F. Jones. East Underw 43:12+ O 30 '42; Nat Underw (Life ed) 46:3+ O 30 '42

Family income policies

Hidden values in your life insurance; need for income the guiding factor in planning an estate. B. W. Levmore. Barron's 22:3+ Je 8 '42

Farm problem

See Insurance, Life—Investments

Farm property

Farm rehabilitation. G. Hirschfeld. il Spectator (Life ed) 149:10-15+ O '42

Metropolitan Life's farm ads culminate years of planning. J. Philp. il East Underw 42:28+ D 12 '41

Finance

Absolute growth of life insurance company assets 1920-41; chart. Nat Underw (Life ed) 45:20 D 12 '41

INSURANCE, Life—Finance—*Continued*

Annuity, disability, double indemnity results in 1941; annual statments filed with New York department. R. B. Mitchell. Nat Underw (Life ed) 46:4+ Mr 6 '42
Companies paid more in benefits and reserve credits than they received in premiums. Nat Underw (Life ed) 45:4 N 7 '41
Companies ranked by assets and payments; tabulation. Nat Underw (Life ed) 46:2 My 8 '42
Companies report gains that reach new highs. Weekly Underw 146:197-8 Ja 17 '42
Comparative reports of life insurance companies for first six months of 1942 and 1941; tabulation. Spectator (Life ed) 149:54 S '42
Comparative results of the operations of life insurance companies as of December 31, 1941; tabulation. Spectator (Life ed) 148: 16 F 12; 12 F 26 '42; Correction. 148:13 Mr 12 '42
Connecticut general life insurance company; analysis. L. S. Fisher. Spectator (Life ed) 149:72-5+ Ag '42
Figures from Dec. 31, 1941, statements. Nat Underw (Life ed) 46:6 Ja 23; 10 Ja 30; 2 F 6; 9 F 13; 2 F 20; 2 F 27; 8 Mr 6; 2 Mr 13; 8 Mr 20 '42
Gain and loss exhibit for 1941. Spectator (Life ed) 149:45 N '42
Government bonds and cash of leading life insurance companies on December 31, 1941; tabulation. Spectator (Life ed) 148:23 My 7; 16 Je 4 '42
How each dollar of total life insurance income was used in 1941; with table. Spectator (Life ed) 149:13-15+ pt 2 S '42
Illinois life business, 1941. Nat Underw (Life ed) 46:7 Ap 17 '42
Insurance in force on Dec. 31, by company; rank, 1941 and 1942; tabulation. Nat Underw (Life ed) 46:1, 2 Mr 27 '42
Life insurance assets; abstracts. E. S. Brigham. Weekly Underw 145:1354+ D 13 '41; Nat Underw (Life ed) 45:4+ D 12 '41; Comm & Fin Chr 154:1684 D 27 '41
Life insurance companies; business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:95-8 sec 2 My 9 '42
Mortality, investment problems in war don't seem grave. A. J. McAndless. Nat Underw (Life ed) 46:22 F 13 '42
New Jersey new business and in force figures, 1941; tabulation. Nat Underw (Life ed) 46:5 Mr 20 '42
New 1941 business in Tennessee; tabulation. Nat Underw (Life ed) 46:26 Ap 3 '42
New peak in beneficiary payments; names and statistics for 1941. il maps Nat Underw (Life ed) 46:5-70 pt 2 My 15 '42
N.Y. state results for individual companies, 1941; tabulation. Nat Underw (Life ed) 46: 3 Mr 6 '42
1941 business in Kentucky; tabulation. Nat Underw (Life ed) 46:26 Ap 3 '42
Operations of 304 legal reserve life insurance companies in U.S. for 1941; charts and tables. Spectator (Life ed) 149:70-3 O '42
Pacific Mutual examination report. East Underw 43:6 S 11 '42; Nat Underw 46:22 S 10 '42
Pacific Mutual Life to restore some of noncan benefits. East Underw 43:1+ O 16 '42; Nat Underw (Life ed) 46:1 O 16 '42
Pennsylvania 1941 business; written and in force; tabulation. Nat Underw (Life ed) 46:7 Mr 20 '42; Correction. 46:16 Mr 27 '42
Pertinent items from the gain and loss exhibit of life insurance companies, 1939-1941. Spectator (Life ed) 148:11 My 21 '42
Prudence life of Chicago report in examination. Nat Underw (Life ed) 46:14 Ja 16 '42
Rank of leading life insurance companies on January 1, 1942; new business paid for, insurance in force, etc.; tabulation. Weekly Underw 146:1085-8 My 9 '42
Ranking by income and new business, 1941; tabulation. Nat Underw (Life ed) 46:2 My 29 '42
Ranking of ordinary, industrial and group, by company, 1941. Nat Underw (Life ed) 46:4 Je 5 '42
Salient points of new annual statements. Nat Underw (Life ed) 46:3+ Ja 23; 1, 14 Ja 30; 2, 10 F 6; 2+ F 13; 2+ F 20 '42
State mutual life assurance company, Worcester, Mass.; analysis. L. S. Fischer. Spectator (Life ed) 149:57-60, 70-1 Jl '42
Superlatives abound in recording company results in 1941. Nat Underw (Life ed) 46:6 Ja 16 '42
Total sales up 14% for '41. Nat Underw (Life ed) 46:1+ Ja 30 '42
Typical life policy in Connecticut shows rise; other gains revealed in 1941 report. East Underw 43:4 O 30 '42
Union life of Chicago report on examination. Nat Underw (Life ed) 46:14-15 Ja 23 '42

First year claims

Examples of large insurance returns for one premium; 143 typical cases; tabulation. Weekly Underw 146:7 sec 2 My 9 '42
$33,326,000 paid by life companies on 73,000 first-year deaths during 1941; with stories of cases. Weekly Underw 146:3-17+ sec 2 My 9 '42

Fraudulent promotion

Insurance racket is unearthed in New York city; plan to sell protection to persons interested in service men. Nat Underw (Life ed) 46:3+ O 23 '42

Fraudulent statements

Cancellation due to misrepresentation in the application. Nat Underw (Life ed) 45:7 N 28 '41
Death of insured does not abate action for cancellation on ground of fraud in application for policy. Weekly Underw 147:586 S 12 '42
Misstatements denying treatment in hospital in application for life policy held fraudulent as matter of law. Weekly Underw 147: 701 S 19 '42
Rules on evidence of age are revised; Sun life of Canada requirements. Nat Underw (Life ed) 46:1+ Ag 21 '42

Government investigation

Agency questions raised in TNEC report; abstracts. J. M. Holcombe, jr. Weekly Underw 145:1096+ N 8 '41; Nat Underw (Life ed) 45:1+ N 7 '41

Guaranty of policies

Defends ideology of Life guaranty corp. L. H. Pink. East Underw 43:6 O 2 '42
New York guaranty fund puts $1,500,000 behind Postal Life. Nat Underw (Life ed) 46:1+ Ja 16 '42

Health conservation service

Aetna has department of physical fitness. East Underw 42:15 N 28 '41
Keep well crusade. A. W. Nelson. East Underw 43:96 pt 2 O 9 '42
Keep well crusade draws praise of press. East Underw 43:7 Jl 17 '42; Nat Underw (Life ed) 46:6 Jl 17 '42
Keep well drive; life insurance business ties its biggest public relations campaign to war health problem. Business Week p16 Jl 4 '42
Keeping America healthy; campaign of Institute of life insurance. Barron's 22:5 S 14 '42
Launch "keep well crusade"; life insurance under Institute leadership. Weekly Underw 146:1437, 1470-1 Je 27 '42; East Underw 43: 1+ Je 26 '42; Nat Underw (Life ed) 46: 1+ Je 26 '42
Life insurance and a Nation's health. N. L. Burnette. East Underw 43:40 pt 2 O 9 '42
Nation's leaders aid "keep well crusade." Weekly Underw 147:65+ Jl 11 '42

History

At the crossroads; life insurance at the end of an era; with chart showing development over a period of eighty years. T. J. V. Cullen. Spectator (Life ed) 149:4-9, 73-7 Jl '42

INSURANCE, Life—History—*Continued*

Connecticut; origin and progress of life insurance, together with a statistical study of present-day operations. F. Ellington. il Spectator (Life ed) 149:20-5+ O '42

Iowa; some features of the early history and present day operations of life insurance. F. Ellington. il Spectator (Life ed) 149:34-9 S '42

Marketing life insurance; its history in America, by J. O. Stalson. Review. East Underw 43:3+ F 27 '42

Massachusetts; early history and present day operations of life insurance in the Bay state. F. Ellington. il Spectator (Life ed) 149:20-5, 72 Jl '42

New Jersey; something of its life insurance companies, their origin and present day operations. F. Ellington. il Spectator (Life ed) 149:18-24 N '42

New York state; highlighting a century of progress with particular attention to past decade. F. Ellington. il Spectator (Life ed) 149:34-41 Ag '42

Short history of life insurance. M. F. Stone. 92p bibliog(91-2) $1.25 Insurance research & review service, Indianapolis '42

Industrial insurance

See Insurance, Industrial

Investment value

Calls life insurance financial management. V. L. Bushnell. East Underw 43:8 My 1 '42

Life insurance as a comparative investment. W. C. Smerling. Weekly Underw 146:406-7 F 14 '42

Life insurance as property. W. H. King. Weekly Underw 146:157-8 Ja 10 '42

Price-freeze excess income by insurance; prospects set their own ceilings on currently needed income. H. C. Rose. Weekly Underw 147:392, 394-5 Ag 22 '42

Realistic investment and underwriting views. A. V. Call. Nat Underw (Life ed) 45:9 D 5 '41

Use invested capital to purchase high premium forms. H. C. Rose. Nat Underw (Life ed) 46:27 O 2 '42

Use of principal is new development. J. O. Todd. Nat Underw (Life ed) 46:6 Ag 28; 11 S 25 '42

Investments

Agents should be told why picture is encouraging. V. L. Bushnell. East Underw 43:4+ Mr 27 '42

Analysis of investment changes brought on by war; abstracts. J. B. Siegel, jr. Nat Underw (Life ed) 46:20+ O 9 '42; East Underw 43:16 O 9 '42

Calls for 3% federal bonds with sales limited to fiduciaries; abstracts. G. S. Nollen. East Underw 43:12 O 9 '42; Nat Underw (Life ed) 46:34-5 O 9 '42

Canada survey shows interest mostly down. East Underw 43:8 Ap 24 '42

Changes now are occurring rapidly and on all fronts. G. Torrance. Nat Underw (Life ed) 46:20+ O 9 '42

Company earnings show decline from years in the past. Nat Underw (Life ed) 46:3 Jl 10 '42

Company investments in U.S. government bonds, Dec. 31, 1930 and 1941, and June 30, 1942. Spectator (Life ed) 149:44 S '42

Distribution of life insurance assets since 1900; tabulation. Spectator (Life ed) 149:11 pt 2 S '42

Farm rehabilitation. G. Hirschfeld. il Spectator (Life ed) 149:10-15+ O '42

Insurance executives express belief that heavy buying of government paper will not impair values. D. Wimmer. Ins Field (Life ed) 71:8-9 My 8 '42; Same. Ins Field (Fire ed) 71:8-9 Jl 2 '42

Insurance has big part in financing war effort; abstracts. C. L. Parry. Nat Underw (Life ed) 46:3+ Ja 2 '42; Trusts & Estates 74:253-4 Mr '42

Insurers buy big part of "tap" issue. Nat Underw (Life ed) 46:1 Ag 7 '42

Investment seminar of A.L.C. closes at banquet. Nat Underw (Life ed) 46:2+ Jl 31 '42

Investments; task of guarding thirty odd billions of dollars. T. J. V. Cullen. il Spectator (Life ed) 149:4-9 N '42

Life companies in war damage plea; most mortgage borrowers cooperative. Nat Underw (Life ed) 46:4 Jl 24 '42

Life companies take half billion of new Treasury "tap" issue. East Underw 43:1+ My 8 '42

Life insurance and war finance. A. J. McAndless. East Underw 43:30 pt 2 O 9 '42

Life insurance company. V. P. Whitsett. Trusts & Estates 74:46-7 Ja '42

Life insurance investments. Bankers M 144:46 Ja '42

Life insurance investments up in half year; with chart showing kinds of securities purchased. Weekly Underw 147:92 Jl 11 '42

Manhattan renewal premiums in U.S. bonds. East Underw 43:8 Ja 2 '42

National life of Vermont supports war housing. East Underw 43:7 N 6 '42

Net rate of interest earned on invested assets; 1937-1941. Spectator (Life ed) 148:23 My 21 '42

New York department replies to bankers on security purchases by life companies. Weekly Underw 145:1151+ N 15 '41; Nat Underw (Life ed) 45:3+ N 14 '41

Optimistic view of post-war period; abstracts. M. A. Linton. Nat Underw (Life ed) 46:20+ O 9 '42; Weekly Underw 147:849+ O 10 '42; East Underw 43:4 O 9 '42

Portfolio raiding hits mortgages. Nat Underw (Life ed) 46:7 Ag 28 '42

Reach agreement on securities offerings with investment bankers. Weekly Underw 146:1261 Je 6 '42

Role of life companies in financing the war. H. C. Sauvain. East Underw 43:82+ pt 2 O 9 '42

Suggestion for diverting funds left under options. L. Hirsh. Nat Underw (Life ed) 46:11 Ja 30 '42

Superintendent Pink views insurance problems under war conditions. East Underw 43:3 F 6 '42

U. S. bond investments, June 30, 1942; tabulation by company. Nat Underw (Life ed) 46:2 Jl 17 '42

War's changes must be cheerfully undertaken. A. J. D. Morgan. Weekly Underw 147:1031+ O 31 '42

Common stocks

Common stock field for life companies seen as limited; abstracts. K. Field. East Underw 43:1+ Ja 2 '42; Weekly Underw 146:152+ Ja 10 '42; Nat Underw (Life ed) 46:3+; Discussion. F. J. Travers; R. E. Badger. 19-20 Ja 2 '42

Common stock hearings; extension of legal list investment. J. W. Meader. Trusts & Estates 73:539-40, 542 N '41; Excerpts. Nat Underw (Life ed) 45:15 D 12 '41

Common stocks as investments. A. V. Shaw. East Underw 42:15 N 14 '41

New York joint committee makes long report. East Underw 43:11 My 1 '42

Opinion pretty well divided on question of common stocks as life company investment. R. L. Barbour. Ins Field (Life ed) 71:6-7+ Ja 9 '42

Opposes common stock investment by insurance companies. C. F. Hobbs. Comm & Fin Chr 155:120 Ja 8 '42

Lapses and surrenders

Caminetti gives no ground in answer on reinstatements. Nat Underw (Life ed) 46:5 O 23 '42

Cash and loan prospect after war ends needs study. M. L. Ridgeway. Nat Underw (Life ed) 46:32+ O 2 '42

Clarification of mutual status felt advisable; abstracts. S. Pierson. Nat Underw (Life ed) 45:3+ D 19 '41; East Underw 42:11 D 19 '41

Committee recommends new non-forfeiture law. Spectator (Life ed) 147:6-9+ N 6 '41

INSURANCE, Life—Lapses and surrenders—*Continued*

Company plans hinge on action on Guertin program. Nat Underw (Life ed) 45:1+ D 5 '41
Company upheld in policy forfeiture on agents notice. Nat Underw (Life ed) 46:6 S 4 '42
Disputes Caminetti's theory on reinstatement. J. J. Holmes. Nat Underw (Life ed) 46:4 O 2 '42
Eye reinstatement of lapsed policies without war clause. Nat Underw (Life ed) 46:3 Je 19 '42
How wartime hazards affect insurability. H. S. Lipscomb. East Underw 43:10 Ag 28 '42
Lapse reinstatement; Commissioner Sullivan of Washington rules on matter. Weekly Underw 146:175 Ja 17 '42
Lapse-surrender ratio in 1941 at all-time low. Nat Underw (Life ed) 46:2 My 1 '42
Lose appeal on grounds of no jurisdiction; suits to obtain proportionate share of the surplus earned while policies were in effect. Nat Underw (Life ed) 45:4 N 21 '41
Metropolitan in 1941 had its lowest lapse rate; persistency rules. M. E. Davis. East Underw 43:11 Mr 20 '42; Spectator (Life ed) 148:18-19 Mr 12 '42
Minnesota Mutual requires war clause on reinstatements. Nat Underw (Life ed) 46:2 Jl 24 '42
More than million policies lapsed and surrendered; statistics for 1940 and 1941; tabulation. Weekly Underw 146:86 sec 2 My 9 '42
Now's the time for retrospective selling. R. Sanborn. Ins Field (Life ed) 70:17 N 14 '41
Outlines reinstatement stand. A. Caminetti, jr. Nat Underw (Life ed) 46:1 S 25 '42
Practical advice on handling reinstatements. W. H. Abell. Nat Underw (Life ed) 45:4 D 12 '41
Propose relief for war-lapsed policy. Nat Underw (Life ed) 46:4 Ag 28 '42
Reinstatement problem clarified. R. B. Caplinger. Nat Underw (Life ed) 46:2+ O 16 '42
Sometimes we don't know how late it is now; lapsed policies are disappointing legacies. Weekly Underw 146:43 sec 2 My 9 '42
Surrenders drop to all-time low. East Underw 43:10 O 16 '42
War clauses, problems of reinstatement. C. R. Holton. Nat Underw (Life ed) 46:15+ O 9 '42

See also
Insurance, Life—Policies—Non-forfeiture benefits
Insurance, Life—Policy valuation

Legal departments

See also
Association of life insurance counsel

Mail order selling

Consumers reports assails family group bargains. E. A. Gilbert. Nat Underw (Life ed) 46:7 Ag 14 '42
No medical examination is called trap. E. A. Gilbert. Nat Underw (Life ed) 46:6 Ag 28 '42
Pans mail order companies. R. Quillen. Nat Underw (Life ed) 46:11 Jl 31 '42

Mathematics

Interest rate study told to actuaries. H. R. Bassford. Nat Underw (Life ed) 46:4 O 30 '42

Medical examinations

Cost of underwriting procedures. P. Shepherd. East Underw 43:3+ O 30 '42
Doctor shortage creates problem. Nat Underw (Life ed) 46:1 Je 19 '42
No medical examination is called trap. E. A. Gilbert. Nat Underw (Life ed) 46:6 Ag 28 '42
Non-medical extended by Equitable society. East Underw 43:6 S 4 '42
Non-medical limits increased by Mutual life of New York. Nat Underw (Life ed) 46:15 O 2 '42
Non-medical programs extended as result of war conditions. East Underw 43:1+ S 11 '42
Reliance Life adopts non-medical business. East Underw 43:5 O 30 '42
Selection of examiners. E. G. Dewis. East Underw 43:11 Je 19 '42
Underwriting policies for small amounts without medical examinations. D. S. Craig. East Underw 43:64+ pt 2 O 9 '42

See also
Insurance, Life—Risks

Mortality statistics

See Mortality—Statistics

Mortgage redemption policies

C.L.U. questions and answers; mortgage cancellation sales interview. Ins Field (Life ed) 71:16+ Ja 2 '42
New home protection policies of Ohio National; mortgage payment plan of Union Mutual. Spectator (Life ed) 149:17+ S '42

Non-medical

See Insurance, Life—Medical examinations

Policies

Can we simplify the life insurance policy? F. H. Pease. East Underw 43:78+ pt 2 O 9 '42
Conflict of laws and life insurance contracts. C. W. Carnahan. 760p bibliog(p723-33) $12 Callaghan '42
Eight insurers now issue income replacement plan. F. M. Hope. Nat Underw (Life ed) 45:16 D 26 '41
Emphasis is being placed on protection feature. Nat Underw (Life ed) 45:2+ D 5 '41
Equitable, Ia. announces seventy-fiver policy. Nat Underw (Life ed) 46:18 My 22 '42
Equitable of Iowa new protection policy. Spectator (Life ed) 148:12 Mr 26 '42; Nat Underw (Life ed) 46:16 Mr 20 '42
Equitable society's twofold income plan. East Underw 43:4 Ag 14 '42
Great West issues double protection pensions. Spectator (Life ed) 149:16-17 S '42
Hidden values in your life insurance; ordinary life contracts are in essence endowments for the whole of the buyer's life. B. W. Levmore. Barron's 22:8 Mr 23 '42; Discussion. Nat Underw (Life ed) 46:3 Mr 27 '42
Hidden values in your life insurance; variations of basic policy forms designed for many purposes. B. W. Levmore. Barron's 22:9-10 Mr 30 '42; Discussion. Nat Underw (Life ed) 46:24 Ap 3 '42
Income continuation policy originated by Connecticut General. Nat Underw (Life ed) 45:24 N 28 '41
Income replacement form offered by Reliance. Nat Underw (Life ed) 46:20 Jl 24 '42
Income replacement insurance and war bonds. F. M. Hope. Spectator (Life ed) 149:4-9, 82-3 Ag '42
Metropolitan Life reduces interest rate; adopts new policy forms. Weekly Underw 145:1177+ N 22 '41; Nat Underw (Life ed) 45:1+ N 28 '41
Mutual life of New York liberalizes clauses in policies. Weekly Underw 147:1093 N 7 '42
New Metropolitan Life policies to feature protection needs. East Underw 42:1+ N 21 '41
New policies of Northwestern National. Nat Underw (Life ed) 46:17-18 My 1 '42; East Underw 43:8 My 1 '42
New policy issued for permanent insurance by Bankers Life; modified two-whole life contract. Weekly Underw 146:112 Ja 3 '42
New rates and policies for Postal union life of Los Angeles. Spectator (Life ed) 148:23 F 12 '42
Occidental's policy with a heart. East Underw 43:6 Je 26 '42; Spectator (Life ed) 149:32-3 Jl '42
Pacific Mutual income security policy. East Underw 43:5 Mr 27 '42
Penn Mutual issues new form: Independence builder. Nat Underw (Life ed) 45:17-18 N 21 '41

INSURANCE, Life—Policies—*Continued*

Plan suggested for cooperation with insurance in bond sales; defense savings investment policies. A. S. Cartwright. Nat Underw (Life ed) 46:9 Jl 31 '42

Protection stressed by Metropolitan; limit sale of investment forms. H. R. Bassford. Nat Underw (Life ed) 45:1 N 14 '41

Prudential reduces reserve basis to 2½%; premiums increased; new policy forms. Weekly Underw 145:1245+ N 29 '41; East Underw 42:1+ N 28 '41; Nat Underw (Life ed) 45:1 N 28 '41

Security mutual life of Binghamton, New York issuing two new contracts. Nat Underw (Life ed) 46:17 Ja 9 '42

Some recent company policy changes. F. E. Huston. East Underw 43:11 Ag 28 '42

Travelers announces broadening of life coverage-triple protection. Weekly Underw 146:1238 My 30 '42

Travelers new triple and double protection. East Underw 43:8 Jl 24 '42

Two unusual new life policies by Continental Assurance. Nat Underw (Life ed) 46:18 Ag 21 '42

Warning on jumbo investment policies. R. S. Rust. Nat Underw (Life ed) 45:1+ N 21 '41

Who writes what? $2.50 128p Nat. underwriter co, Statistical division, 420 E. 4th st, Cincinnati '42; Review. Nat Underw (Life ed) 46:1+ F 27 '42

See also

Insurance, Bequest

Insurance, Life—Endowment policies

Insurance, Life—Retirement income policies

Non-forfeiture benefits

Action is postponed on Guertin group's report. Nat Underw (Life ed) 46:1 Je 12 '42

Advocates speedy enactment of essentials of Guertin report; abstracts. J. A. Fulton. East Underw 43:9 O 9 '42; Nat Underw (Life ed) 46:35 O 9 '42

Agents need to follow abstruse considerations; non-forfeiture deliberations can't be dismissed as actuaries' chore. Nat Underw (Life ed) 45:10 D 19 '41

A.L.C. and presidents submit report on Guertin proposals. Nat Underw (Life ed) 45:4+ D 12 '41; East Underw 42:22+ D 12 '41; Weekly Underw 145:1351+ D 13 '41

Benefits of non-forfeiture laws. F. E. Huston. Nat Underw (Life ed) 46:3+ S 25 '42

Committee recommends new non-forfeiture law. Spectator (Life ed) 147:6-9+ N 6 '41

Company committees praise Guertin study. East Underw 43:5 Ja 2 '42

Hidden values in your life insurance; non-forfeiture clauses provide vital protection. B. W. Levmore. Barron's 22:13 Ap 20; 7 Ap 27 '42

Implores backing for Guertin plan. C. O. Shepherd. Nat Underw (Life ed) 46:5 O 9 '42

May defer move to alter nonforfeiture. Nat Underw (Life ed) 46:1 S 4 '42

New mortality table: calls it representative program; abstracts. A. N. Guertin. East Underw 43:5+ O 9 '42; Weekly Underw 147:849+ O 10 '42; Nat Underw (Life ed) 46:8 O 9 '42

Nonforfeiture plan construed by High Court of Georgia. Nat Underw (Life ed) 46:6 F 6 '42

Non forfeiture values. W. H. McBride. Weekly Underw 147:938 O 17 '42

Statement of proposed non-forfeiture, valuation laws. F. E. Huston. Nat Underw (Life ed) 46:6 S 11 '42

Urges immediate action on laws on non-forfeiture, etc. Nat Underw (Life ed) 46:2 S 18 '42

Volume of reports on nonforfeiture benefits is issued. Nat Underw (Life ed) 46:22 S 25 '42; East Underw 43:7 S 18 '42

Term policies

Berkshire announces new income continuation form. Nat Underw (Life ed) 46:19 Ap 24 '42

Connecticut general life insurance company term special contract. Spectator (Life ed) 148:22 F 12 '42

Continental American life insurance company income replacement term policy. Spectator (Life ed) 148:23 F 12 '42

Continental issues new type contract; sold in units of $3,000; reducing to $500 at 65. East Underw 43:4 Ja 2 '42

Hidden values in your life insurance; pros and cons of term insurance. B. W. Levmore. Barron's 22:3 Mr 16 '42; Comments. Nat Underw (Life ed) 46:4 Mr 20 '42

Hoarding that's legitimate. R. Sanborn. Ins Field (Life ed) 71:15 My 1 '42

Industrial convertible term policy issued by Eureka-Maryland. Nat Underw (Life ed) 46:18 My 22 '42

Massachusetts Mutual term policies. Spectator (Life ed) 148:28 F 26 '42

Mutual Life of New York has term to age 65 and double protection contracts. Weekly Underw 146:622 Mr 14 '42; East Underw 43:5 Mr 13 '42; Nat Underw (Life ed) 46:22 Mr 13 '42

Prudential has new term to 65 modified form. Nat Underw (Life ed) 46:18-19 Ap 24; 18 My 1 '42; Spectator (Life ed) 148:15 Ap 23 '42

State Farm's ads for low cost form; special term policy for those of ages 16-35. Nat Underw (Life ed) 45:8 N 21 '41

Policy assignment

Absolute assignment in consideration for cancellation of debt and payment of premiums. Weekly Underw 146:507 F 28 '42

Bank lends twice cash value—for a consideration. Nat Underw (Life ed) 46:3+ S 18 '42

Defaulted insurance loans. Banking 34:47 Ap '42

Hitch develops in insurance loans at banks. Nat Underw (Life ed) 46:3 Je 26 '42

Policy beneficiaries

Insurer waives receipt of policy for change of beneficiary by impleading rival claimants. Weekly Underw 146:634 Mr 14 '42

Will cannot change beneficiary. Trusts & Estates 74:434 Ap '42

See also

Insurance, Business

Policy dividends

Application of policyholders' dividends during 1941; tabulation by company. Spectator (Life ed) 149:26 pt 2 S '42

Bankers life company, Des Moines, Iowa, dividend scale. Spectator (Life ed) 148:15 Ja 29 '42

Dividend announcements, by company. Nat Underw (Life ed) 45:22 N 7; 6 N 28; 19 D 5 '41

Hidden values in your life insurance; dividends come from safety cushion in premium charges; their uses vary. B. W. Levmore. Barron's 22:9 Ap 6 '42

John Hancock retains ordinary, group rate. East Underw 42:10 N 21 '41

Maryland life insurance company of Baltimore annual dividends payable April 1, 1942-April 1, 1943; table. Spectator (Life ed) 148:14 Ap 23 '42

Metropolitan scale on 2¾% policies. Nat Underw (Life ed) 46:22 Mr 27 '42

Mutual benefit life insurance company, dividend scale. Spectator (Life ed) 148:21 F 26 '42

New Equitable, N.Y., dividend scale for '42. Nat Underw (Life ed) 45:24 D 19 '41; Spectator (Life ed) 148:14 Ja 29 '42

N.Y. banks ponder dividend revision. Nat Underw 46:3 O 9 '42

1941 dividend payments down. East Underw 43:11 Je 12 '42

Provident mutual life insurance company, dividend scale. Spectator (Life ed) 148:20 F 26 '42

Trends in estate planning; what to do with dividends on life insurance policies. H. S. Koster. Trusts & Estates 74:489-91 My '42

INSURANCE, Life—*Continued*

Policy holders

Answer policyholders query as to danger of inflation. T. I. Parkinson. Nat Underw (Life ed) 46:6 Jl 31 '42

Classification is made of buyers of life insurance. Nat Underw (Life ed) 46:9 S 11 '42; Same. Weekly Underw 147:571+ S 12 '42

Disappearance in war now problem for companies. Nat Underw (Life ed) 46:1 Ja 16 '42

Evacuees' life insurance; Canadian government cooperates with companies for the South Pacific area. Weekly Underw 147:466 Ag 29 '42

Eyes problem of assured cut off by war; abstracts. G. M. Selser. Nat Underw (Life ed) 46:4 My 8 '42; East Underw 43:15 My 1 '42

Insuring the middle millions. Trusts & Estates 75:144 Ag '42

List of prominent patrons in the United States who own $50,000 or more of life insurance; arranged geographically. Spectator (Life ed) 147:37-62, 64-74, 76-95 sec 2 D 4 '41

1942 buyers of insurance; who are they and what are they buying? J. M. Holcombe, jr. East Underw 43:98+ pt 2 O 9 '42

Outlives mortality table; H. C. Lytton. Nat Underw (Life ed) 46:6-7 O 9 '42; East Underw 43:1+ O 9 '42

Owners of a million or more in life insurance. Spectator (Life ed) 147:34-5 D 4 '41

Peculiar problems arise in sections occupied by enemy. Nat Underw (Life ed) 46:3+ S 11 '42

Penn Mutual Life policyholders indicate what they like to know about coverage. Weekly Underw 146:1366 Je 13 '42; Nat Underw (Life ed) 46:6 Jl 17 '42

Policyholders organization is launched by H. S. Magill. Nat Underw (Life ed) 45:20 N 21 '41

Prominent life payments in 1941; lists by policy holders and by states and towns. il maps Nat Underw (Life ed) 46:13-15, 17-70 pt 2 My 15 '42

Public opinion; what people think and say about the policies they own. A. W. Nelson. Spectator (Life ed) 149:26-9+ O '42

Realism rules the world of make-believe; headliners of Broadway stage purchase life insurance. J. Chamberlain. Spectator (Life ed) 147:18-21+ sec 2 D 4 '41

Research bureau reports on life sales distribution; 1942 buyer. Nat Underw (Life ed) 46:3+ Ag 28 '42; Same. Weekly Underw 147:389-90+ Ag 22 '42

Siegel ex-employe organizes insured at $2 a head; Society of American policyowners. Nat Underw (Life ed) 46:3+ Mr 13 '42

Terms of bill to save policies of isolated insured. Nat Underw (Life ed) 46:4 S 4 '42

Union Central makes policyholder survey along occupational lines. East Underw 43:21 Ag 21 '42

Volume business in life insurance comes from customers not prospects; research reveals 40 per cent of policy owners admit their insurance inadequate. J. B. Taylor. Weekly Underw 146:48-51, 75-7 sec 2 My 9 '42

War workers are increasing their life insurance; American service bureau survey. Nat Underw (Life ed) 46:3+ O 23 '42

What the average life insurance policyholder owns through his policy; chart. Spectator (Life ed) 148:24 Ap 9 '42

What the policyholder wants. W. R. Furey. Ins Field (Life ed) 71:18 O 2 '42

See also
Insurance, Life—
First year claims

Policy liens

Life policy held not subject to distraint action. Nat Underw (Life ed) 46:13 Ag 7 '42

Policy loans

Comforting decision handed down in Canada; policy loans to beneficiary. Nat Underw (Life ed) 46:11 Mr 27 '42

Policy loans showing decrease. Nat Underw (Life ed) 46:1 O 30 '42

Two policy loan interest cases. East Underw 43:13 Ja 30 '42

War problems that challenge life insurance companies; suggestions by a field man. E. F. Pierle. Nat Underw (Life ed) 46:2+ Ag 28 '42

Why should I pay interest on my policy loan? F. C. Crowell, jr. Ins Field (Life ed) 70:16+ D 26 '41

Policy replacement

See Insurance, Life—Rewriting

Policy settlement

Bank official urges income settlements. A. R. Bast. Spectator (Life ed) 148:20-1 Mr 26 '42

Common disaster clause and replacement practices reviewed. M. E. Clubine; A. F. White. Nat Underw (Life ed) 46:7 Jl 24 '42

Ellis case decision important to insurance companies; testamentary question under optional settlement agreements. East Underw 43:1+ F 6 '42; Nat Underw (Life ed) 46:3 Ja 30 '42

Greater use of income options urged. C. V. Anderson. Nat Underw (Life ed) 45:23 N 21 '41

Hidden values in your life insurance; applying policy options for the benefit of dependents. B. W. Levmore. Barron's 22:18 My 25 '42

Hidden values in your life insurance; early selection of proper settlement options important to an intelligent program. B. W. Levmore. Barron's 22:20 Je 1 '42

Hidden values in your life insurance; four ways a policyholder can use cash values for himself. B. W. Levmore. Barron's 22:6 My 18 '42

Metropolitan Life's mortality statistics. Nat Underw (Life ed) 46:7 Ap 10 '42

Optional settlements and trusts. R. S. Crampton. Trusts & Estates 74:393-4 Ap '42

Particular but not peculiar; optional modes of settlement. W. A. Hamlin. Spectator (Life ed) 147:26-7+ sec 2 D 4 '41

Programming for the last time; advisability of being able to split the proceeds. W. Wilson. Ins Field (Life ed) 70:12-13 D 5 '41

Settlement options need revision. H. H. Jackson. Nat Underw (Life ed) 45:3+ N 7 '41

Suggestion for diverting funds left under options. L. Hirsh. Nat Underw (Life ed) 46:11 Ja 30 '42

Sun Life of Canada changes settlement options. Spectator (Life ed) 148:14 Ap 23 '42

Trend of use of optional mode of settlements in 1930, 1940 and 1941; tabulation. Spectator (Life ed) 149:12 pt 2 S '42

U.S. High court denies writ in settlement pact case; Mutual Benefit Life v. Ellis. Nat Underw (Life ed) 46:8 Ap 17 '42

U.S. Supreme court to hear Ellis case issue. East Underw 43:17 Ap 3 '42

Using options as a sales tool. H. Krueger. Weekly Underw 146:859-61 Ap 11 '42

Using options as a sales tool. W. C. Smerling. Weekly Underw 146:1082-4 My 9 '42

Unclaimed policies

N.Y. on unclaimed fund law gets only $1,400,000. Nat Underw (Life ed) 46:1 F 6 '42

Policy valuation

Committee recommends new non-forfeiture law. Spectator (Life ed) 147:6-9+ N 6 '41

Comparison given of results under Guertin plan; cash values. F. E. Huston. Nat Underw (Life ed) 46:6 O 23 '42

Expect New York dept. nonforfeiture bill at this session. Nat Underw (Life ed) 46:3 Ja 16 '42

Statement of proposed non-forfeiture, valuation laws. F. E. Huston. Nat Underw (Life ed) 46:6 S 11 '42

See also Insurance, Life—Policies—Nonforfeiture benefits

INSURANCE, Life—*Continued*

Premiums, Payment of

Hidden values in your life insurance; two methods of continuing protection without further premium payments. B. W. Levmore. Barron's 22:7 Ap 27 '42

U.S. reported out to plug single premium tax leak. Nat Underw (Life ed) 46:3 F 20 '42

When life insurance premiums are paid through government allotment. N. P. Wood. East Underw 43:10 S 11 '42

Prospects

Best prospects today are same type as before war. Nat Underw (Life ed) 46:19 Ag 21 '42

Car sale ban frees cash equal to 2 years' life sales. Nat Underw (Life ed) 46:6 Jl 24 '42

Connecticut Mutual agents give views on present market. Nat Underw (Life ed) 46:19 Ap 17 '42

Death without boots on. R. Sanborn. Ins Field (Life ed) 71:17-18 Ja 30 '42

Difficult to reach defense workers for an interview. Nat Underw (Life ed) 46:9 Ag 21 '42

Experiments made to reach war born buyers. Nat Underw (Life ed) 46:3 My 15 '42

Facing conditions squarely. J. A. Preston. Nat Underw (Life ed) 46:10 Ag 28 '42

Good sources for prospects in 1942. R. E. Pille. Spectator (Life ed) 148:14-15 Mr 26 '42; Same. Nat Underw (Life ed) 46:23 F 27 '42

Great opportunity for the rural agent. J. O. Cartwright. Nat Underw (Life ed) 46:8 My 29 '42

Home Life of New York inaugurates national priority prospecting plan. il East Underw 42:12 D 26 '41

How Federal Association finds prospects for its salesmen; dinner meetings sponsored by church and fraternal groups. Sales Management 51:46-8 Ag 15 '42

Hunting the defense worker in the U.S. K. P. Walton. Ins Field (Life ed) 71:16 Mr 27 '42

Insuring war workers going to foreign lands is specialty of R. W. Fairbanks. East Underw 43:12 My 15 '42

Life underwriter and the war. J. O. Todd. Weekly Underw 146:60-1, 80-2 sec 2 My 9 '42

National income not cut by defense costs, but transferred to new hands. J. F. Wohlgemuth. Nat Underw (Life ed) 46:8 F 20 '42

New prospects in defense industries; engineers. E. J. Mintz. Spectator (Life ed) 148:16 Ap 23 '42

New responsibilities and new opportunities; changes in the flow of money in the United States. P. F. Clark. Spectator (Life ed) 148:16-17 My 21 '42

N. Y. Life survey of applications is prospecting guide. East Underw 43:4 Ap 10 '42

Penn Mutual's prospect bureau an effective help. M. A. Murray. Nat Underw (Life ed) 46:19 Jl 17 '42

People; thirty million individuals in lower and middle income brackets, maladjusted to present plan of life insurance distribution. T. J. V. Cullen. Spectator (Life ed) 149: 4-7, 59-61 S '42

Plan of selling to farmers. L. T. Sloane. Nat Underw (Life ed) 46:19 S 11 '42

Plan used by J. Elliott Hall agency to sell war industry workers. East Underw 43:3+ S 11 '42

Profitable farm market. D. Ross. Nat Underw (Life ed) 46:9 My 29 '42

Prospecting from the applications. Spectator (Life ed) 148:14 F 12 '42

Prospecting in wartime. H. M. McCord. Ins Field (Life ed) 71:14 Je 19 '42

Prospecting process, a practical panel; forum of Life underwriter's association of the City of New York. Weekly Underw 147:892-5 O 10 '42

Prospecting today; new qualifying factor for prospects. J. I. Jordan. Ins Field (Life ed) 71:22 My 15 '42

Prospecting with a purpose. G. N. Matthews. Ins Field (Life ed) 71:14-15 Ja 2 '42

Prospects need pre-selecting during this particular time. C. P. Dawson. Nat Underw (Life ed) 46:23 Ag 14 '42

Reaching a new class of prospects. C. A. A'Hearn. East Underw 43:11 Ag 14 '42

Reaching people in aircraft plants. P. D. Fassoth. East Underw 43:50 pt 2 O 9 '42

Reappraise old ideas and keep out of the middle. E. T. Proctor. Nat Underw (Life ed) Daily ed 46:18+ Ag 18 '42

Resold policyowners best source of prospects. J. A. Hawkins. Nat Underw (Life ed) Daily ed 46:10+ Ag 20 '42

Salary savings solves the problem. A. Zern. Ins Field (Life ed) 71:16 Ap 10 '42

Selling in a shifting market; abstracts. R. E. Fuller. Ins Field (Life ed) 71:26-7 O 9 '42; Nat Underw (Life ed) 46:19+ O 9 '42; Weekly Underw 147:876+ O 10 '42

Selling the new market. R. C. Jacobsen. Ins Field (Life ed) 71:14+ My 29 '42

Selling the white collar worker; abstracts. H. Krueger. Nat Underw (Life ed) 46:24 Ja 9 '42; East Underw 43:13 Ja 9 '42

Selling to American farmers. L. A. Williams. Nat Underw (Life ed) 45:2+ D 26 '41

Sound prospecting methods still bear fruit, Provident Mutual survey shows. W. K. Wise. Nat Underw (Life ed) 46:2 O 2 '42; Same. East Underw 43:12 O 2 '42

Specific tips on locating defense workers. Nat Underw (Life ed) 46:21 Mr 27 '42

Strategy for war plant prospects. R. B. Mitchell. Nat Underw (Life ed) 46:2 Jl 3 '42

Success achieved with increased wage earners. L. L. Lens. Nat Underw (Life ed) 46:23 Ag 14 '42

Successful sales ideas for use today; revise prospect files in view of today's economic situation. H. D. Goldman. Nat Underw (Life ed) 46:19-20 Jl 17 '42

Surplus income is packed with economic dynamite. E. T. Golden. Nat Underw (Life ed) 46:23 Je 5 '42

Tapping wage earner market. J. D. Moynahan. Nat Underw (Life ed) 46:2 My 15 '42

Technique used on defense laborers. A. L. Bell. Nat Underw (Life ed) 46:5 Ag 28 '42

Thirty billion dollar market for life insurance; needs and potential buying power of low income group. T. J. V. Cullen. Spectator (Life ed) 149:16-21, 62-71 Ag '42

Tradesmen of defense worker best prospects. L. M. Buckley. Nat Underw (Life ed) Daily ed 46:6+ Ag 19 '42

Views on today's sales plans. E. C. McDonald. East Underw 43:4+ Je 5 '42

Wage earner market sales strategy. G. Oppenheim. Nat Underw (Life ed) 46:19 Ap 17 '42

War industries markets. W. E. Hays. East Underw 43:19 My 22 '42

War plants' white collar men prove good market. A. V. Youngman. Nat Underw (Life ed) 46:24 My 15 '42

Wartime conditions emphasize life insurance needs. A. T. Maclean. East Underw 43:68+ pt 2 O 9 '42

What about war worker life insurance market? A. L. Dern; F. B. Alberts. Nat Underw (Life ed) Daily ed 46:20-1+ Ag 19 '42

Who are prospects today? H. Chaney. Ins Field (Life ed) 71:14+ Ja 9 '42

Wise local agent will develop life business now. C. J. Zimmerman. Nat Underw 45: 33-4 D 11 '41

Women agents discuss priority prospecting. Spectator (Life ed) 148:18 Je 4 '42

Workers and war bonds woven into program. J. E. McNeal. Spectator (Life ed) 148:21 My 7 '42

Writing college students gave him his start. P. B. Banks. East Underw 43:91 pt 2 O 9 '42

See also
Insurance, Life—Women as prospects

Purchasing

Advances plan to buy term insurance and war bonds; Church life insurance corporation. Comm & Fin Chr 156:1437 O 22 '42

INSURANCE, Life—Purchasing—*Continued*

Double duty dollars; plan for buying life insurance in conjunction with war bonds. M. Von Babo. Spectator (Life ed) 149:30-2 O '42
Hidden values in your life insurance; building a program in terms of income needs and budget requirements. B. W. Levmore. Barron's 22:16 Je 22 '42
Important points to remember when buying life insurance. B. W. Levmore. Barron's 22: 7-8 Jl 13 '42
Insurance pamphlet for buyer is put out by Public affairs committee. Nat Underw (Life ed) 45:7 D 26 '41
1942 buyers of insurance; who are they and what are they buying? J. M. Holcombe, jr. East Underw 43:98+ pt 2 O 9 '42
Reasons for buying analyzed; advertising firm's survey. Nat Underw (Life ed) 46:6 My 29 '42
Volume business in life insurance comes from customers not prospects; research reveals 40 per cent of policy owners admit their insurance inadequate. J. B. Taylor. Weekly Underw 146:48-51, 75-7 sec 2 My 9 '42
Warning on jumbo investment policies. R. S. Rust. Nat Underw (Life ed) 45:1+ N 21 '41
What makes people buy. E. L. Reiley. Weekly Underw 147:297-9+ Ag 8 '42
Who bought life insurance in 1941; what kind and for how much? Spectator (Life ed) 149:16 pt 2 S '42

Rates

Aetna Life shows new 2½% rates. Nat Underw (Life ed) 46:16-17 S 25 '42; East Underw 43:5 S 18 '42; Weekly Underw 147: 832 O 3 '42
Aetna ups rates on single premium life and annuity forms; eases war clause. Nat Underw (Life ed) 46:25 Ja 30 '42
Changes in rates, reserves and options since Aug. 1, 1941. F. E. Huston. Nat Underw (Life ed) 46:14 O 9 '42
Connecticut savings bank life premiums; comparisons with New York and Massachusetts. East Underw 42:4 D 19 '41
Equitable society announces changes. Nat Underw (Life ed) 46:14 Jl 17 '42
Equitable third big company to cut below 3%. Nat Underw (Life ed) 45:1 D 26 '41
Farmers and traders life insurance company, Syracuse, N.Y.; non-participating premium rates. Spectator (Life ed) 148:19 My 21 '42
Higher premiums. Business Week p67-8 N 29 '41
Interest rate study told to actuaries. H. R. Bassford. Nat Underw (Life ed) 46:4 O 30 '42
Kentucky home mutual life insurance company, Louisville; participating premium rates. Spectator (Life ed) 148:18 My 21 '42
Metropolitan Life reduces interest rate; adopts new policy forms. Weekly Underw 145:1177+ N 22 '41; Nat Underw (Life ed) 45:1+ N 28 '41
Metropolitan's new rates shown based on 2.75% interest. Nat Underw (Life ed) 45:11 D 19 '41; Spectator (Life ed) 148:12 Ja 1 '42
Mutual Benefit's net cost schedule for 1942. Nat Underw (Life ed) 46:24 Ja 2 '42
New Metropolitan Life policies to feature protection needs; premiums raised. East Underw 42:1+ N 21 '41
Policy developments; non-participating rates and reserves increased. F. W. Huston. Weekly Underw 145:1106 N 8 '41
Prudential reduces reserve basis to 2½%; premiums increased. Weekly Underw 145: 1245+ N 29 '41; East Underw 42:1+ N 28 '41; Nat Underw (Life ed) 45:1 N 28 '41
Reliance life insurance company, Pittsburgh, Pa. participating and non-participating regular annual premium rates. Spectator (Life ed) 148:17 Ap 9 '42
Schedule of Prudential new premiums. Nat Underw (Life ed) 45:25 D 19 '41; Spectator (Life ed) 148:13 Ja 1 '42
Security mutual of Binghamton uses new method in rate figuring. Nat Underw (Life ed) 46:11 N 6 '42
Trend toward higher life premiums definitely on the company agenda for 1942. D. Wimmer. Ins Field (Life ed) 71:12 Je 5 '42
United benefit life insurance co. Omaha, Neb. non-participating regular annual premium rates. Spectator (Life ed) 148:16 Ap 9 '42

Real estate operations

Cut holdings of residence property in 1941. Nat Underw (Life ed) 46:7 S 25 '42
Equitable starts Brooklyn housing project. il East Underw 43:8 Ja 30 '42
Farm aid; how repercussions from Wall Street crash were felt in every farm home. G. Hirschfeld. Spectator (Life ed) 149:48-9 S '42
Farms unfrozen. Business Week p44+ Ag 8 '42
Urges prompt sale of foreclosed real estate. M. Nadler. Nat Underw (Life ed) 46:3+ Ap 3 '42

Receiverships

Ask rehearing in American Life of Detroit case. East Underw 43:9 Ag 28 '42
Central Life need not pay premium tax on Illinois Life fund business in Illinois. Nat Underw (Life ed) 46:10 Mr 13 '42
Ex-receiver of Peoria Life, paid $95,000; wants more. Nat Underw (Life ed) 45:9 N 21 '41
Iowa deposit of American Life to Iowa policyholders. Nat Underw (Life ed) 46:18 Ag 7 '42
Lift entire lien on Bank Savings. Nat Underw (Life ed) 46:9 My 8 '42
Unity Life receivership upheld. Ins Field (Life ed) 71:11 My 29 '42

Reinstatement

See Insurance, Life—Lapses and surrenders

Reinsurance

Franklin Life reinsures United life of Kansas. Nat Underw (Life ed) 46:4 Ja 23 '42
Great-West Life will reinsure Universal. Ins Field (Life ed) 71:7 Jl 17 '42
Ohio National reinsures American Citizens. Nat Underw (Life ed) 46:4 Ag 7 '42
Security reinsures Insurance Clerks. East Underw 42:12 N 28 '41

Reserves

Ætna revises rates; goes on a 2½ per cent reserve basis. Weekly Underw 147:520 S 5 '42
Company plans hinge on action on Guertin program. Nat Underw (Life ed) 45:1+ D 5 '41

Retirement income policies

Canada life assurance company retirement income bond policy. Spectator (Life ed) 148:14 Je 4 '42
Guardian has deferred life income contract. Nat Underw (Life ed) 46:20 Jl 31 '42
Hidden values in your life insurance; early planning for retirement possible through two major insurance company contracts. B. W. Levmore. Barron's 22:13 My 4 '42
New England mutual life insurance company retirement income policies. Spectator (Life ed) 148:15 Je 4 '42; Nat Underw (Life ed) 46:18 Je 5 '42
Reliance Life adds new policy. Nat Underw (Life ed) 46:22 Jl 3 '42

Rewriting

Common disaster clause and replacement practices reviewed. M. E. Clubine; A. F. White. Nat Underw (Life ed) 46:7 Jl 24 '42

Risks

Acacia Mutual Life sponsors film program; actual operations in a variety of industries. Ins Field (Life ed) 71:9 Jl 24 '42
Civilian workers at outposts are insurance problem. Nat Underw (Life ed) 45:3 D 19 '41
Cost of underwriting procedures. P. Shepherd. East Underw 43:3+ O 30 '42

INSURANCE, Life—Risks—*Continued*

Life insurance rejected; distribution by states, 1941. map Spectator (Life ed) 149:11 pt 2 S '42

Mutual's numerical risk rating. L. Cruess. East Underw 43:4+ Ap 17 '42

1941 trends in H. O. underwriting reflect problems. W. H. Dallas. East Underw 42:1+ D 12 '41

Rating; special problems arising in occupational underwriting. M. Pitler. East Underw 42:11 N 14 '41

Realistic underwriting views. O. J. Lacy. Nat Underw (Life ed) 45:9+ D 5 '41

Seek to improve insurance service for N.Y. Negroes. Nat Underw (Life ed) 46:9 O 9 '42

Selection men study effect of war on business. Nat Underw (Life ed) 46:3+ O 16 '42

Teamwork in risk selection. M. L. Cleaves. East Underw 43:94+ pt 2 O 9 '42

Underwriters discuss refugees, war risks. East Underw 42:12 N 21 '41

Underwriting problems of today. A. C. Webster. Nat Underw (Life ed) 46:2+ Ap 24 '42

See also

Insurance, Life—Substandard risks

Insurance, Life—War risks

also Home office life underwriters association

Salary savings plan

Salary allotment offers real field. H. J. Bassett. Nat Underw (Life ed) 46:7 Ag 21 '42

Salary budget plan offers opportunity for new business; success by a Mutual Life team. Nat Underw (Life ed) 46:7 S 4 '42

Salary savings field is better than ever now. R. Perry. Nat Underw (Life ed) Daily ed 46:22 Ag 20 '42

Salary savings solves the problem. A. Zern. Ins Field (Life ed) 71:16 Ap 10 '42

Social aspects

Builder of good citizenship. H. J. Johnson. Spectator (Life ed) 147:16-17+ sec 2 D 4 '41

Company heads tell significance to Nation of life insurance in these critical times. G. W. Smith and others. East Underw 43:18, 20, 22+ pt 2 O 9 '42

Function of life insurance in the national emergency. H. J. Johnson. Spectator (Life ed) 148:13 Ja 29 '42

Income replacement insurance and war bonds. F. M. Hope. Spectator (Life ed) 149:4-9, 82-3 Ag '42

Insurance is essential war industry. S. C. McEvenue. Nat Underw (Life ed) Daily ed 46:5 Ag 20 '42

Life insurance a mighty political force; bulwark of democracy created in savings of millions of American families. C. B. Robbins. il Weekly Underw 146:30-2 sec 2 My 9 '42

Public leaders see enduring role of life insurance in war as in peace. A. H. Vandenberg and others. East Underw 43:12-13, 16 pt 2 O 9 '42

$7,100,000,000 of policyholders' funds are building planes and war equipment; advancing social and spiritual welfare. V. P. Whitsitt. il Weekly Underw 146:28-9 sec 2 My 9 '42

Thirty billion dollar market for life insurance; needs and potential buying power of low income group. T. J. V. Cullen. Spectator (Life ed) 149:16-21, 62-71 Ag '42

Statistics

Applications declined and accepted in 1941; tabulation. Weekly Underw 146:88 sec 2 My 9 '42

Average new policy continues to get larger. Nat Underw (Life ed) 46:3 Mr 27 '42

Average ordinary policy written for 1931-1941, by company. Spectator (Life ed) 149:25 N '42

Average ordinary policy written for years 1931-1940, by company. Spectator (Life ed) 147:14 D 18 '41

Connecticut; origin and progress of life insurance, together with a statistical study of present-day operations. F. Ellington. il Spectator (Life ed) 149:20-5+ O '42

Death benefits by states, 1941; tabulation. Weekly Underw 146:92 sec 2 My 9 '42

Insurance sales and national income compared, 1913-1940; chart. F. M. Hope. Nat Underw (Life ed) 46:8 Ja 2 '42

Iowa; some features of the early history and present day operations of life insurance. F. Ellington. il Spectator (Life ed) 149:34-9 S '42

Life insurance in 1942 is many times bigger factor than in past war periods; chart. Nat Underw (Life ed) 46:6 Ja 2 '42

Life insurance pays off; record of death claims, 1941. Spectator (Life ed) 149:18-23 pt 2 S '42

List of prominent patrons in the United States who own $50,000 or more of life insurance; arranged geographically. Spectator (Life ed) 147:37-62, 64-74, 76-95 sec 2 D 4 '41

Massachusetts; early history and present day operations of life insurance in the Bay state. F. Ellington. il Spectator (Life ed) 149:20-5, 72 Jl '42

New Jersey; something of its life insurance companies, their origin and present day operations. F. Ellington. il Spectator (Life ed) 149:18-24 N '42

New peak in beneficiary payments; names and statistics for 1941. il maps Nat Underw (Life ed) 46:5-70 pt 2 My 15 '42

New York state; highlighting a century of progress with particular attention to past decade. F. Ellington. il Spectator (Life ed) 149:34-41 Ag '42

Ordinary life insurance in force by states, 1941; tabulation. Weekly Underw 146:90 sec 2 My 9 '42

Research bureau reports 1941 ordinary life sales were the highest since 1937. Weekly Underw 146:238 Ja 24 '42

Statistical issue. Spectator (Life ed) 149:3-30 pt 2 S '42

U.S. families received $6,918,000 a day in 1941. Weekly Underw 146:394 F 14 '42

See also

Insurance, Life—First year claims

Study and teaching

Accent on education; analysis of New York Life's new educational program for agents. F. C. Crowell, jr. il Ins Field (Life ed) 71:14-15+ Jl 17 '42

Composite answers to 1941 C.L.U. examination questions. Ins Field (Life ed) 70:16-18 O 31; 14+ N 7; 16+ N 14; 16-17 N 28; 14+ D 5; 20 D 12; 14-15 D 19; 18+ D 26 '41; 71:16+ Ja 2 '42

Composite answers to 1942 C.L.U. examination questions. Ins Field (Life ed) 71:16-18 S 11; 16-17 S 18; 18-19 S 25; 18-19 O 16; 18-19 O 30 '42

Educational plans of life men; National Association and Agency officials take joint action. Weekly Underw 145:1389+ D 20 '41; East Underw 42:6 D 19 '41

Huebner foundation has new service center. Weekly Underw 146:196 Ja 17 '42

Insurance textbook issued; Minneapolis underwriters place history and development of life insurance in city high schools. East Underw 42:9 D 19 '41

Life and accident insurance, course no 2 (cont). R. S. Maechtel and others. Weekly Underw 146:157-8, 406-7, 630-1, 859-61, 1082-4, 1368-70, 147:101-4, 297-9+, 582-3, 892-5, 990, 992, 1151-5; 1400-2 Ja 10, F 14, Mr 14, Ap 11, My 9, Je 13, Jl 11, Ag 8, S 12, O 10, 24, N 14, D 12 '42 (to be cont)

New York Life expands courses. East Underw 43:6 O 23 '42

New York Life's new course a milestone in education. Nat Underw (Life ed) 46:1+ Ap 10 '42; East Underw 43:3+ Ap 10 '42

Promising future for career life underwriters; value of C.L.U. movement. D. McCahan. Weekly Underw 146:44-5+ sec 2 My 9 '42

INSURANCE, Life—Study and teaching—*Cont.*

Public should know; is it important to teach high school students the facts of life insurance? M. C. Laughman. Ins Field (Life ed) 71:16-17 Jl 17 '42

What C. L. U. study has done for me. J. H. Ardrey. Ins Field (Life ed) 71:14+ S 18 '42

See also

Insurance, Life—
Agents—Training

Substandard risks

Connecticut General broadens substandard program. East Underw 43:4 S 18 '42; Spectator (Life ed) 149:46-7 O '42

Mutual Life now issues substandard business. East Underw 43:8 Mr 13 '42

Suicide death claims

Our most baffling social disease; suicide death claim experience, 1941. G. Hirschfeld. map Spectator (Life ed) 149:22-30, 48 Ag '42

Tables

Advocates speedy enactment of essentials of Guertin report; abstracts. J. A. Fulton. East Underw 43:9 O 9 '42; Weekly Underw 147:938-9 O 17 '42; Nat Underw 46:35 O 9 '42

British companies may do medico-actuarial study like America. W. Penman. East Underw 43:1+ Jl 31 '42

C.L.U. questions and answers; ultimate mortality table. Ins Field (Life ed) 70:20 D 12 '41

New mortality table: calls it representative program; abstracts. A. N. Guertin. East Underw 43:5+ O 9 '42; Weekly Underw 147:849+ O 10 '42; Nat Underw (Life ed) 46:8 O 9 '42

Tax deductions

Canadian new premiums deductible from tax. East Underw 43:5 Jl 24 '42; Nat Underw (Life ed) 46:2 Jl 24 '42

Effect of life insurance credit in victory tax. Nat Underw (Life ed) 46:1 O 9 '42

For premiums free of income tax; abstracts. R. Magill. Nat Underw (Life ed) 46:1+ My 22 '42; Comm & Fin Chr 155:1960 My 21 '42

Have we heard the whole story? reaction to Magill suggestion. R. Sanborn. Ins Field (Life ed) 71:17 Je 5 '42

Idea of tax relief for premium payer gains ground. Nat Underw (Life ed) 46:1 Je 5 '42

Policyholders committee promotes tax credit idea in life insurance. Nat Underw (Life ed) 46:7 Je 19 '42

Premium deduction viewed favorably by Senate finance committee members. East Underw 43:4+ Ag 7 '42

Premiums deductible under new Canadian income tax law. East Underw 43:1+ S 4 '42

Propose tax deduction for insurance premiums. Comm & Fin Chr 156:451 Ag 6 '42

Special recognition for life insurance. H. S. Koster. Trusts & Estates 75:386-7 O '42

Tax allowance for life premiums advocated. C. Adams. Nat Underw (Life ed) 46:5 Ap 10 '42

Tax deduction for premiums seen as sales stimulant. Nat Underw (Life ed) 46:3 Ag 14 '42

Tax exempting life premiums. R. Paul. Nat Underw (Life ed) 46:1+ O 16 '42

Taxation

Equitable tax proposal to Congress. Nat Underw 46:4 Ag 28 '42

Estate tax position of life insurance policies. H. S. Koster. Trusts & Estates 75:155-6 Ag '42

Exemption of $40,000 lifted from Revenue bill at last minute. East Underw 43:1+ O 23 '42; Nat Underw (Life ed) 46:7 O 23 '42

Federal board rules on policy proceeds; insurance on life of president of New Jersey machine corporation. Ins Field (Life ed) 71:10 S 25 '42

Federal taxation of life insurance and annuities. M. D. Bachrach. J Account 74:162-5 Ag '42

Federal taxes and life insurance. E. N. Griswold. East Underw 43:16 O 9 '42

Great appeal to Congress to aid, not to squeeze policyholder. C. J. Zimmerman. Nat Underw (Life ed) 46:2 Je 26 '42

Hope Congress will clear up tax uncertainty. Nat Underw (Life ed) 46:1 Ap 10 '42

Inheritance tax does not apply in North Carolina when insured has no control over policy. Nat Underw (Life ed) 46:8 Jl 3 '42

Insurance taxation discussed before House committee. R. Paul. Weekly Underw 146:520+ Mr 7 '42

Let's be practical; despite unsound theory of taxation on life insurance proceeds, savings can still be effected. F. L. Morton. Spectator (Life ed) 147:10-11+ sec 2 D 4 '41

Life insurance and federal taxes. F. L. Morton. East Underw 43:8 Ag 7 '42

Life presidents urge retention of $40,000 exemption. Nat Underw (Life ed) 46:1 Ag 7 '42

Move to disallow interest deduction in House; pension plans affected. Nat Underw (Life ed) 46:2+ Je 12 '42

N.A.L.U. leaders make strong tax witnesses. Nat Underw (Life ed) 46:1-2 Ap 17 '42; East Underw 43:3+ Ap 17 '42

N.A.L.U. proposals get friendly Senate reception. R. B. Mitchell. Nat Underw (Life ed) 46:1+ Ag 7 '42

National ass'n stand on tax proposals of Treasury department; talk at meeting of New York managers and general agents; abstracts. C. J. Zimmerman. East Underw 43:1+ Mr 27 '42; Nat Underw (Life ed) 46:7-8 Mr 27 '42

New federal tax bill is favorably regarded by agents. Nat Underw (Life ed) 46:1+ O 30 '42

New federal tax bill; review of life insurance features. W. H. Fissell. Spectator (Life ed) 149:8-11, 30-3 S '42

1942 tax proposals examined. F. L. Morton. East Underw 43:14 Ap 17 '42

Report of work of N.A.L.U. committee on federal law and legislation. J. A. Witherspoon. East Underw 43:14+ Ag 21 '42

Reports result of Congressional hearings before Illinois association. J. Zimmerman. Ins Field (Life ed) 71:5-6 Ap 24 '42

Senate finance committee changes in tax bill. W. H. Fissell. Spectator (Life ed) 149:37-40 O '42

Senate finance committee restores $40,000 exemption. Nat Underw (Life ed) 46:1+ S 18 '42

Special recognition for life insurance. H. S. Koster. Trusts & Estates 75:386-7 O '42

Tax avoidance is boomerang. D. B. Maduro. Nat Underw (Life ed) 45:1+ N 21 '41

Tax avoidance selling censured. E. N. Griswold. Nat Underw (Life ed) 46:1+ O 9 '42

Taxation of life insurance. J. B. Lowe. Banking 35:60 Ag '42

Taxation of life insurance and annuities. K. R. Clark. 475p $7.50 Callaghan '41

Tips on proceeding in time of tax rises. D. Stock. Nat Underw (Life ed) 45:13 D 19 '41

Treasury tax proposals hit life insurance. R. Paul. Nat Underw (Life ed) 46:3+ Mr 6 '42

Trends in life insurance and taxation situation. F. L. Morton. Nat Underw (Life ed) 46:23 Ja 23 '42

Two constructive tax proposals now before Treasury officials. J. S. Myrick. East Underw 42:1+ D 5 '41; Same. Weekly Underw 145:1269+ D 6 '41; Same abr. Nat Underw (Life ed) 45:5 D 5 '41

U.S. court rules on important tax case; companies not liable for estate levy on trust funds. Nat Underw (Life ed) 46:8 My 15 '42

Washington scene as it affects the N.A.L.U; report at Memphis meeting; abstracts. C. J. Zimmerman. Ins Field (Life ed) 71:10-13 Ap 3 '42; Nat Underw (Life ed) 46:2+ Ap 3 '42

Trust company cooperation

Life insurance trust council movement grows. F. L. Armstrong. Weekly Underw 146:83-5,87+ sec 2 My 9 '42

INSURANCE, Life—Trust company cooperation—*Continued*

N.A.L.U. reports on cooperation with trust officers. P. H. Dunnavan. Trusts & Estates 73:508 N '41

New life insurance trust councils. Trusts & Estates 74:173 F '42

See also
Insurance trusts

Tuberculosis death claims

Tuberculosis control; death claims experience, 1941. G. Hirschfeld. il map Spectator (Life ed) 149:70-8 N '42

Twisting

Massachusetts high court upholds law on return commissions on life policies. Weekly Underw 146:346+ F 7 '42; Same abr. Nat Underw (Life ed) 46:5 F 6 '42

Unclaimed policies

See Insurance, Life—Policy settlement—Unclaimed policies

Veterans' policies

History of U.S. insurance sold during last war. Nat Underw (Life ed) 46:6 S 4 '42

War problems

Canada three years in war; preview of problems in U.S. J. A. Tuck, B. R. Power and A. G. Nairn. East Underw 43:35-6+ pt 2 O 9 '42

Handling payments in wartime offers problems. V. J. Skutt. Nat Underw (Life ed) 46:16+ O 9 '42

Life insurance under war conditions. J. M. Laird. East Underw 43:3+ My 15 '42; Abstract. Nat Underw (Life ed) 46:1+ My 15 '42

Peculiar problems arise in sections occupied by enemy. Nat Underw (Life ed) 46:3+ S 11 '42

Personnel drain is one of chief effects of war; other problems; abstracts. H. C. Bates. Nat Underw (Life ed) 46:3+ Ag 28 '42; Weekly Underw 147:441+ Ag 29 '42

Sales readjustment to war conditions expected soon. M. A. Linton. Nat Underw (Life ed) Daily ed 46:4+ Ag 18 '42

War problems that challenge life insurance companies; suggestions by a field man. E. F. Pierle. Nat Underw (Life ed) 46:2+ Ag 28 '42

War's changes must be cheerfully undertaken. A. J. D. Morgan. Weekly Underw 147:1031+ O 31 '42

War risks

Acacia mutual life insurance company provisions relating to war risk. Spectator (Life ed) 148:22 F 12 '42

Aetna life insurance company war risk rider. Spectator (Life ed) 147:18 D 4 '41

American life convention makes study of war restrictions of 58 insurers. Nat Underw (Life ed) 46:15 Ja 30 '42

Attachment of war clause to all policies is new move. Nat Underw (Life ed) 45:1+ D 19 '41

Bank insurers lament competition based on war rider. Nat Underw (Life ed) 46:8 Ja 16 '42

Bankers of Iowa modifies rules. Spectator (Life ed) 148:16-17 Ap 9 '42

British and American war exclusion compared. Spectator (Life ed) 148:20-1 My 7 '42

British companies may do medico-actuarial study like America; views on unconditional policies. W. Penman. East Underw 43:1+ Jl 31 '42

Calls exclusion provision solely expeditionary force clause. B. K. Elliott. East Underw 43:5 O 9 '42; Same. Weekly Underw 147:1098 N 7 '42

Caminetti gives no ground in answer on reinstatements. Nat Underw (Life ed) 46:5 O 23 '42

Civilian war casualties to be covered under Pepper bill in Congress. East Underw 43:32 F 13; 33+ F 20 '42; Nat Underw 46:19 F 12 '42

Colonial Life removes limitations on policies in force before Jan. 1. Weekly Underw 146:290 Ja 31 '42

Comment on policy as to war clause. Nat Underw (Life ed) 46:18 Ap 24 '42

Companies' stand where war nullifies disability; abstracts. R. E. Moyer. East Underw 43:6+ Je 12 '42; Nat Underw (Life ed) 46:6 Je 12 '42

Companies swing to war rider on all new issues. Nat Underw (Life ed) 45:1+ D 26 '41

Company practices as to war clauses; American life convention questionnaire results; tabulation. East Underw 43:11 Ja 30 '42

Complications after war is over; study war clause as it affects returning troops. Nat Underw (Life ed) 46:9 Ag 28 '42

Connecticut General, war and aviation rider. Spectator (Life ed) 148:12 Ja 1 '42

Continental assurance company provisions relating to war and aviation. Spectator (Life ed) 148:20 Ja 15 '42

Effect of war on old $10 disability clauses is studied. Nat Underw (Life ed) 46:1 F 6; 3 F 13 '42

End of first war month finds 44 companies attaching clause to all new policy issues. Ins Field (Life ed) 71:8+ Ja 9 '42

Equitable life assurance society of the United States war and aeronautics restrictions. Spectator (Life ed) 148:20 Ja 15 '42

Equitable society and Mutual life of New York, revise war restrictions. Nat Underw (Life ed) 46:1+ N 6 '42

Eureka-Maryland endorsement form. Spectator (Life ed) 147:16 D 18 '41

Exclusion clause problems. F. L. Griffin, jr. East Underw 43:8 My 22 '42

Eye reinstatement of lapsed policies without war clause. Nat Underw (Life ed) 46:3 Je 19 '42

Fischer clears way for general war clause use in Iowa. Nat Underw (Life ed) 45:14 D 12 '41

Give us a standard war clause! R. Sanborn. Ins Field (Life ed) 71:15 Ja 9 '42

Hidden values in your life insurance; war and the possibility of inflation bring new problems. B. W. Levmore. Barron's 22:7 Je 29 '42

How wartime hazards affect insurability. H. S. Lipscomb. East Underw 43:10 Ag 28 '42

Illinois dept. rules on war rider wording. East Underw 43:12 F 6 '42

Joint report on war clauses at Denver. East Underw 43:4 Je 12 '42; Nat Underw (Life ed) 46:1+ Je 12 '42

Life insurance contracts in this war and the last. Spectator (Life ed) 148:11 Ja 1 '42

Life salesmen take advantage of war to increase income; action on war clauses. Nat Underw (Life ed) 46:6, 10-11 Ja 2 '42

Limiting losses; companies invoke war-risk clauses. Business Week p85-6 D 13 '41

Limits on war risks. G. G. Daly. East Underw 43:6+ Je 12 '42

Many have war clauses on departmental plan; lineup of companies in New York. East Underw 43:9 O 2 '42

Many war clauses announced by U.S. companies. Nat Underw (Life ed) 45:5+ D 12 '41

Massachusetts Mutual war rider conditions. East Underw 43:9 Ja 2 '42

Metropolitan's war and aviation rider effective Nov. 14. Nat Underw (Life ed) 45:1+ N 14 '41

Minnesota Mutual requires war clause on reinstatements. Nat Underw (Life ed) 46:2 Jl 24 '42

Mortality due to war experience. L. Cruess. Nat Underw (Life ed) 46:1+ N 6 '42

Most companies not including war clauses in term conversions. F. C. Crowell, jr. Ins Field (Life ed) 71:6 Je 19 '42

Mutual Life has had 71 war death claims since Pearl Harbor. Nat Underw (Life ed) 46:20 O 16 '42

Mutual Life; war clauses on new policies. East Underw 42:44 D 12 '41; Weekly Underw 145:1351+ D 13 '41

INSURANCE, Life—War risks—*Continued*

National Life, Vt., war hazard and aircraft agreement. Spectator (Life ed) 147:17 D 18 '41

New England Mutual Life liberalizes war clause. East Underw 43:6 Ap 3 '42; Weekly Underw 146:761+ Ap 4 '42; Spectator (Life ed) 148:14 Ap 9 '42

New war clause sent to Manhattan Life agents. East Underw 43:6 Jl 17 '42

New York state's new law covering exclusions and restrictions; text. East Underw 43:4 Ap 24 '42

Occidental life insurance company war clause. Spectator (Life ed) 148:21 Ja 15 '42

Occidental life of California was prepared for war in the Philippines and Hawaii. D. L. Clarke. Ins Field (Life ed) 71:6+ Ja 23 '42

Oregon Mutual underwriting rules for war and aviation. Spectator (Life ed) 148:14 Ap 23 '42

Peoples life, Indiana, war risk exclusion provision. Spectator (Life ed) 148:14 Ja 29 '42

Pepper's War injuries bill in revised form wins quick support. East Underw 43:31 Ap 3 '42

Phoenix Mutual Life, war and aeronautics restrictions. Spectator (Life ed) 147:16 D 18 '41

Pleads for liberal war clause; abstracts. L. H. Pink. Weekly Underw 146:1321+ Je 13 '42; Nat Underw (Life ed) 46:3+ Je 12 '42

Protecting life policyholders. Weekly Underw 145:1441+ D 27 '41

Prudential adopts new war and aviation clause. Nat Underw (Life ed) 46:3+ O 2 '42; East Underw 43:8+ O 16 '42

Prudential insurance company of America; war and aviation clause. Spectator (Life ed) 147:19 D 4 '41

Reinstatement problem clarified. R. B. Caplinger. Nat Underw (Life ed) 46:2+ O 16 '42

Reliance Life and Pacific Mutual Life adopt war clauses. Spectator (Life ed) 147:26-7 N 20 '41

Reliance Life new underwriting rules. Spectator (Life ed) 148:22 Mr 12 '42

Security life and trust company war risk and aviation provisions. Spectator (Life ed) 148:15 Ja 29 '42

Selling with a war clause. C. P. Hilton. Ins Field (Life ed) 71:18-19 Mr 27 '42

Ship personnel coverage of War shipping administration. East Underw 43:30 Je 26 '42; Nat Underw (Life ed) 46:2 Jl 24 '42

Societies begin to act on war risk. Nat Underw (Life ed) 46:29 Ja 30; 3+ F 13 '42

Status type bill is approved by New York's Governor. Nat Underw (Life ed) 46:1 Ap 24 '42

Status war rider being adopted by fraternal societies. Nat Underw (Life ed) 46:21 Ja 23 '42

Sun life of America revises war clause. Spectator (Life ed) 148:15 Ap 23 '42

Sun life of Canada war losses 2.2% of total death claims. East Underw 43:1+ F 27 '42

Survey shows desire for war clause uniformity. F. E. Huston. Nat Underw (Life ed) 46:17+ O 9 '42

Travelers insurance modification of contract due to hazards of war. Spectator (Life ed) 148:13 Ja 1 '42

Uniform war clause proposal made. Nat Underw (Life ed) 46:1+ Jl 24 '42; East Underw 43:1+ Jl 17 '42

Union Central Life war clause. Spectator (Life ed) 148:21 Ja 15 '42

War clause decisions brought up to date. Nat Underw (Life ed) 46:3+ Ja 9 '42

War clause practices set forth in time table style. Nat Underw (Life ed) 46:2 Ja 9; 2 Ja 23; 8 Ja 30; 4 F 6 '42

War clauses; discussion at meeting of commissioners. Nat Underw (Life ed) 45:18-19 D 12 '41

War clauses in life policies and insurance for those in military or naval service. H. R. Bassford. East Underw 43:24+ pt 2 O 9 '42

War clauses, problems of reinstatement. C. R. Holton. Nat Underw (Life ed) 46:15+ O 9 '42

War clauses reviewed by Life institute. East Underw 43:8 Ja 9 '42; Nat Underw (Life ed) 46:22 Ja 9 '42; Weekly Underw 146:129+ Ja 10 '42

War risk exclusion applied generally to life policies. East Underw 42:1+ D 26 '41

War risk insurance on commercial fishermen. Weekly Underw 146:1006 My 2 '42

Women as policy holders

Public opinion; career women express their views on life insurance. L. Reeve. Spectator (Life ed) 149:44-5 Ag '42

Women as prospects

Selling life insurance to women. S. L. Turner. Spectator (Life ed) 148:20-1 Ap 9 '42

Selling life insurance to women, new and expanding market war's result. S. R. Hay, jr. Weekly Underw 147:380-1 Ag 22 '42

Understanding women. H. M. Zepp. Ins Field (Life ed) 71:16 Je 19 '42

Women make good life insurance prospects. M. Divver. East Underw 43:14 Ap 3 '42

Brooklyn, New York

Some Brooklyn agencies among oldest in city. I. Davis. East Underw 43:3+ F 13 '42

Canada

Canada three years in war; preview of problems in U.S. J. A. Tuck, B. R. Power and A. G. Nairn. East Underw 43:35-6+ pt 2 O 9 '42

Canada's experience; talk before Legal section, American life convention. C. Martin. East Underw 43:17 O 9 '42

Canadian boom continues under tax impetus. Nat Underw (Life ed) 46:1+ S 4 '42

Canadian business more persistent since war started. Nat Underw (Life ed) 45:6 D 26 '41

Canadian experience; address at A.L.C. Agency section meeting; abstracts. C. C. Martin. Weekly Underw 147:877+ O 10 '42; Nat Underw (Life ed) 46:19+ O 9 '42

Canadian insurance in force gains 10%. G. D. Finlayson. East Underw 43:10 Ja 16 '42

Canadian life insurance officers association 49th convention, Quebec. East Underw 43:1+ My 29 '42

Cites positive sales factors. W. S. Penny. Nat Underw (Life ed) 46:1+ My 29 '42

Companies in Canada are largest subscribers for victory loans. East Underw 43:1+ Mr 20 '42

Effect of Canadian defense effort on life insurance; abstracts. A. N. Mitchell. Weekly Underw 145:1098+ N 8 '41; Nat Underw (Life ed) 45:2+ N 7 '41; East Underw 42:8 N 7 '41

Effect of the war on Canadian life companies. J. G. Parker. Nat Underw (Life ed) 46:1+ My 15 '42

Evacuees' life insurance; Canadian government cooperates with companies for the South Pacific area. Weekly Underw 147:466 Ag 29 '42

How companies are meeting Canadian insurance sales problems in wartime. H. A. H. Baker. East Underw 43:37 pt 2 O 9 '42

Insurance is essential war industry. S. C. McEvenue. Nat Underw (Life ed) Daily ed 46:5 Ag 20 '42

Life insurance in war time; abstracts. A. N. Mitchell. Weekly Underw 145:1358-9 D 13 '41; East Underw 42:13 D 19 '41

Observations on effect of war in Canada. J. G. Parker. Nat Underw (Life ed) 46:3+ My 22 '42

Rule life premiums as required savings. Weekly Underw 147:5 Jl 4 '42

War finds greater Canadian volume, fewer agents; abstracts. J. G. Parker. East Underw 43:4 Mr 27 '42; Nat Underw (Life ed) 46:1+ Mr 27 '42

War time experience as shown in Canada. J. D. Williamson. East Underw 42:1+ N 14 '41

INSURANCE, Life—*Continued*

Connecticut

Connecticut bank insurance setup being organized. Nat Underw (Life ed) 45:3-4 D 5 '41

Connecticut; origin and progress of life insurance, together with a statistical study of present-day operations. F. Ellington. il Spectator (Life ed) 149:20-5+ O '42

Europe

Only in America is life insurance doing business as usual. D. Porter. Ins Field (Life ed) 71:13-14+ Ag 21 '42

Far East

Effect of Far East war on life insurance. M. Freeman. Weekly Underw 146:110 Ja 3 '42

Here's how Indian life companies handle the problem of insureds in enemy-occupied regions. T. Dutt. Ins Field (Life ed) 71:8 Je 12 '42

Occidental life of California was prepared for war in the Philippines and Hawaii. D. L. Clarke. Ins Field (Life ed) 71:6+ Ja 23 '42

Germany

Insurance survey. Economist 142:151 Ja 31 '42

Great Britain

British death benefits decline during 1941. Weekly Underw 146:1386 Je 20 '42; Nat Underw (Life ed) 46:4 Jl 17 '42

Current trends reviewed before Actuarial society. J. B. Maclean. East Underw 43:3+ O 23 '42

Equity and law life assurance society, Scottish life assurance company, United Kingdom provident institution annual meetings. Economist 142:443-5 Mr 28 '42

Life assurance. Economist 143:177-8 Ag 8 '42

Life assurance new business, 1940 and 1941. Economist 142:231 F 14 '42

Life insurance in England; gains in 1941. Spectator (Life ed) 148:9 Ap 23 '42

Life insurance in Great Britain still doing a front-line job. W. Hill. il Spectator (Life ed) 149:16-17, 28-9 N '42

Refuge assurance company, limited, Britannic assurance company, limited, annual general meetings. Economist 142:480-3 Ap 4 '42

India

Here's how Indian life companies handle the problem of insureds in enemy-occupied regions. T. Dutt. Ins Field (Life ed) 71:8 Je 12 '42

Iowa

Iowa; some features of the early history and present day operations of life insurance. F. Ellington. il Spectator (Life ed) 149:34-9 S '42

Kansas City

Rush to beat war clause gives Kansas City agencies big month. Nat Underw (Life ed) 46:6+ Ja 2 '42

Massachusetts

Massachusetts; early history and present day operations of life insurance. F. Ellington. il Spectator (Life ed) 149:20-5, 72 Jl '42

Operation of savings-bank life insurance in Massachusetts and New York. U S Bur Labor Statistics Bul 688:1-132 bibliog(p 128-32); pa 20c Supt. of doc. '41; Summary. Monthly Labor R 54:432-41 F '42

Surveys life company benefits to Massachusetts. East Underw 43:13 Mr 27 '42

Michigan

Asks insurance bear more health costs; opinion of Governor. East Underw 43:17 Ap 17 '42

New Jersey

New Jersey; something of its life insurance companies, their origin and present day operations. F. Ellington. il Spectator (Life ed) 149:18-24 N '42

New York (state)

New York state; highlighting a century of progress with particular attention to past decade. F. Ellington. il Spectator (Life ed) 149:34-41 Ag '42

New York state's new law covering exclusions and restrictions; text. East Underw 43:4 Ap 24 '42

Operation of savings-bank life insurance in Massachusetts and New York. U S Bur Labor Statistics Bul 688:1-132 bibliog(p 128-32); pa 20c Supt. of doc. '41; Summary. Monthly Labor R 54:432-41 F '42

Pink opposes stock investments, seeks housing law change; preliminary report to Legislature. Nat Underw (Life ed) 46:1+ F 6 '42; East Underw 43:3 F 6 '42

Pacific coast

Coast traveler gives impressions of insurance, buses, trains. A. R. Jaqua. Nat Underw (Life ed) 46:2+ Ag 21 '42

Effect of war on life insurance on Pacific coast. A. E. Patterson. Nat Underw (Life ed) 46:2 N 6 '42

Southeastern states

Southeast marked up life gains in 1941. M. R. McGruder. Weekly Underw 146:103+ Ja 3 '42

United States

Coming year will be an eventful one for life insurance. T. I. Parkinson. Comm & Fin Chr 155:466-7 Ja 29 '42

Economic detour; a history of insurance in the lives of American Negroes. M. S. Stuart. 339p bibliog(p337-8) $3 W. Malliet and co, 209 W. 125th st, New York '40

Every branch of life insurance industry pledges all-out support of war effort. Ins Field (Life ed) 70:5-6+ D 12 '41

Future life insurance market; what leading company executives feel is just ahead. C. O. Fischer and others. Weekly Underw 147:368-9+ Ag 22 '42

Great importance of life insurance in the Nation's war effort. R. H. Kastner. East Underw 43:9-10+ pt 2 O 9 '42

Life companies will pay $25,000,000 taxes in 1942 under the new revenue act. D. Wimmer. Ins Field (Life ed) 71:6-7 N 6 '42

Life company chiefs express year-end views. Weekly Underw 146:96+ Ja 3 '42

Life insurance coordinating committee; group cooperating with Treasury department in sale of F and G war bonds. East Underw 43:3+ S 25 '42

Life insurance industry prepared. G. L. Harrison. Weekly Underw 146:95+ Ja 3 '42

Life insurance is helping Nation to victory and lasting peace. R. L. Hogg. East Underw 43:92+ pt 2 O 9 '42

Life insurance made big strides. H. J. Johnson. Weekly Underw 146:5+ Ja 3 '42

Life insurance ready for demands of war; abstracts. O. J. Arnold. Weekly Underw 145:1321+ D 13 '41; Nat Underw (Life ed) 45:5+ D 12 '41; East Underw 42:36 D 12 '41

Life insurance review of 1941. C. C. Klocksin. East Underw 43:3+ Ja 2 '42; Same. Nat Underw (Life ed) 46:2+ Ja 2 '42; Same. Weekly Underw 146:92+ Ja 3 '42

Life sales booming with public in buying mood. Nat Underw (Life ed) 45:1+ D 19 '41

Life underwriter mobilized. G. F. Johnston. Spectator (Life ed) 148:6-9 Ja 29 '42; Abstracts. East Underw 43:3+ Ja 30 '42; Nat Underw (Life ed) 46:1 Ja 23 '42

Marketing life insurance; its history in America, by J. O. Stalson. Review. East Underw 43:3+ F 27 '42

Marshalling the facts of war; keep life insurance unshaken in American minds. H. J. Johnson. Weekly Underw 146:21-3+ sec 2 My 9 '42

1941 has been one of many changes for the life insurance business. Ins Field (Life ed) 70:6-10 D 26 '41

1941 trends in H. O. underwriting reflect problems. W. H. Dallas. East Underw 42:1+ D 12 '41

INSURANCE, Life—United States—*Continued*

1941 year of progress for life insurance. H. J. Johnson. Weekly Underw 146:98-9 Ja 3 '42

Overall committee in insurance will aid war prosecution. East Underw 43:1+ Ag 7 '42

Role of insurance after war. A. E. Patterson. East Underw 43:4+ Ap 17 '42

Social security and life insurance. P. F. Cranefield, E. A. Gaumnitz and W. B. Taylor. 202p $2.50 Security press, Madison, Wis. '40

Surveys year's trends; abstracts. A. J. McAndless. East Underw 43:3+ O 9 '42; Nat Underw (Life ed) 46:17+ O 9 '42

Where have we been and where are we going? A. R. Jaqua. Nat Underw (Life ed) Daily ed 46:4+ Ag 18 '42

INSURANCE, Live stock

Lambs lost in transit by fire; holds transit policy not liable. East Underw 43:24 Jl 31 '42

Veterinary insurance for cows. Economist 142:728 My 23 '42

INSURANCE, Machinery

See also

Insurance, Power plant

Vandalism coverage

Bureau revises malicious mischief endorsement in boiler, machinery policies. Nat Underw 46:68 S 24 '42

INSURANCE, Malpractice liability

Physician's liability; court rules on control of nurses during operation. Weekly Underw 146:1457; 147:250 Je 27, Ag 1 '42

See also

Insurance, Hospital liability

INSURANCE, Manufacturers' and contractors' property damage liability

Manufacturers' and contractors' liability; new classifications and rates. Spectator (Property ed) 8:27 O 29 '42; Nat Underw 46:23 O 22 '42

INSURANCE, Manufacturers' and contractors' public liability

Manufacturers' and contractors' liability; new classifications and rates. Spectator (Property ed) 8:27 O 29 '42; Nat Underw 46:23 O 22 '42

INSURANCE, Marine

Anticipate record year for Great Lakes shipping. Nat Underw 46:3 Mr 12 '42

Atlantic Mutual of New York observing 100th anniversary. East Underw 43:1+ Ap 3 '42

Atlantic Mutual's 100 colorful years. L. A. Mack. il Weekly Underw 146:764-5+ Ap 4 '42

Cargo loss and damage. M. E. McFarland. 148p $2 Cornell maritime press, New York '42

Charges for two types of insurance may be added to maximum prices of coffee, cocoa, tea, and pepper. For Comm W 7:17-18 My 16 '42

Fireman's fund Atlantic marine dept. an old established office. East Underw 42:27 D 5 '41

Insuring your business; ocean and inland marine insurance protect against many hazards. F. C. Crowell, jr. Barron's 22:13+ S 14 '42

Marine insurance and requisitioning of ships. Weekly Underw 146:1116 My 16 '42

Marine underwriters prepared for losses which have occurred. East Underw 43:1+ Ap 24 '42

Ocean marine cargo insurance opportunities. P. B. Moran. Weekly Underw 145:1290-1 D 6 '41

Plan for allocation of marine premiums studied. Nat Underw 46:6 Jl 9 '42

Sees much enlargement of the merchant marine. H. L. Vickery. Nat Underw 46:1 O 29 '42

Some pertinent comments on marine business. M. V. Campbell. Nat Underw 46:11 Ap 16 '42

WSA announces terms for missing vessels. Weekly Underw 147:925 O 17 '42

See also

Insurance, Inland marine

Adjustment of claims

Admiralty court holds bailee can make contract waiving negligence. East Underw 42:27 D 5 '41

Burden on tugboat owner to show no negligence caused accident. East Underw 43:34 My 22 '42

Charter party dispute arising out of the French capitulation before British courts. Weekly Underw 146:482-3 F 28 '42

Court cites conditions rendering carrier liable for damage to fruit. East Underw 43:24 O 30 '42

Court holds shipowner should know whether cargo is dangerous. East Underw 42:28 N 14 '41

Coxwold loss held to be due to direct result of warlike operation. East Underw 43:24 Jl 31 '42

Dutch shipowners operating at Rotterdam not necessarily enemies under British court rule. Weekly Underw 146:273-5 Ja 31 '42

Effect of war upon contracts of insurance: frustration discussed. Weekly Underw 146:1006-8 My 2 '42

Frustration cases before American courts. Weekly Underw 146:1059 My 9 '42

House of lords decides that stranding of ship is war loss; Coxwold case. Weekly Underw 147:129-30, 178+ Jl 18-25 '42

Insurer held owner of cargo damage claim; action under loan receipt maintainable notwithstanding fact assured has become enemy alien. Weekly Underw 147:324-5 Ag 15 '42

Is hire payable by charterers during period when ship is being degaussed? Weekly Underw 146:718-19 Mr 28 '42

Litigation between shipping co., captain and seamen over insurance proceeds; enemy alien problem. Weekly Underw 147:558 S 12 '42

Marine insurance litigation in 1941. J. C. Crawley. Weekly Underw 146:60 Ja 3 '42

Marine or war loss: tabulation of decided cases. Weekly Underw 147:559-60 S 12 '42

Misplacement coverage construed broadly in case on marine policy. East Underw 42:28 N 14 '41

New British decision on collision in convoy; claim held marine risk. East Underw 43:33+ Ag 21 '42; Weekly Underw 147:407+ Ag 22 '42

Position of Holland, Norway, Greece and other invaded countries under British trading with enemy act. Weekly Underw 145:1290 D 6 '41

Reach basis for settling claims on missing vessels. Nat Underw 46:3 Ag 27 '42

Ship's liability for sweat damage to cargo. Weekly Underw 146:1165 My 23 '42

Trading with enemy act held not to bar suit under a loan receipt. East Underw 43:39 N 6 '42

Agents

Effect of the war on marine insurance. H. D. Van Gils. Weekly Underw 146:1341+ Je 13 '42; Abstract. Nat Underw 46:4+ Je 11 '42

Commissions

Cut marine war risk commissions to 5 percent. Nat Underw 46:1 Jl 16 '42

Coverage

Coverage under marine and war risk policies. Weekly Underw 146:1400 Je 20 '42

Importers can insure added value in private market. Nat Underw 46:4 Ag 20 '42

Marine coverage can be extended to cover delays and transshipments. East Underw 43:23 Jl 3 '42; Same. Nat Underw 46:31 Jl 2 '42

Private companies resume insuring coffee imports. Nat Underw 46:1+ Ag 6 '42

Valuations are biggest problem in acting for WSA. R. B. Mitchell. Nat Underw 46:1+ S 10 '42

INSURANCE, Marine—*Continued*

Finance

American cargo war risk reinsurance exchange has credit balance after three war years. Comm & Fin Chr 156:1636 N 5 '42; Nat Underw 46:3+ O 29 '42; East Underw 43:24 O 30 '42
Insurance stocks; effect of curtailment of automobile insurance and of high ocean marine losses. Comm & Fin Chr 155:2022 My 28 '42
1941 automobile and ocean marine premiums registered large increase; results by companies. East Underw 43:19+ Mr 6 '42
Weigh effect of marine losses; Mackubin, Legg & co. Nat Underw 46:8 My 28 '42

International aspects

Trading with enemy and insurance; standard of conduct with foreign underwriters defined. Weekly Underw 146:787+ Ap 4 '42

Losses

Three-year marine war risk losses exceed premiums by $1,453,690. East Underw 43:20 Je 12 '42; Weekly Underw 146:1321+ Je 13 '42; Nat Underw 46:31 Je 11 '42; Spectator (Property ed) 7:21 Je 11 '42

Policies

British marine underwriters adopt new ship warrant warranty. East Underw 43:30 Mr 27 '42
New River hull policy for western rivers; important improvement made in average clause. B. A. Thompson. Weekly Underw 146:183-4 Ja 17 '42
War risk; marine, cargo; open policy form no. 2-C, and endorsement form A. Spectator (Property ed) 7:22-3 N 13 '41

Premiums, Recovery of

Cannot reform marine policy to recover over payments of premium. East Underw 43:30 Mr 27 '42
Returns clause change; Institute of London underwriters announcement. Weekly Underw 145:1080 N 8 '41

Preventive work

Loss prevention steps in ocean marine insurance. W. D. Winter. East Underw 43:25+ Ja 2 '42; Abstract. Nat Underw 46:5+ Ja 1 '42
Merchant marine on the alert for safety; human failure in leadership and in the chain of command. E. C. Holden, jr. Weekly Underw 146:484-6 F 28 '42

Rates

Amend war risk on cargo; Havana tanker rate cut. Weekly Underw 146:786 Ap 4 '42
Cargo insurance rates. Economist 141:724 D 13 '41
Cargo rates revised; clause limits voyages. Weekly Underw 146:902 Ap 18 '42
Cargo risk rates; advance of 5 per cent on certain shipments announced. Weekly Underw 147:326 Ag 15 '42
Cargo war rates again increased. Nat Underw 46:25 Mr 5 '42
Cargo war risk rates on Atlantic Coast routes; second reduction made in month. Weekly Underw 147:808 O 3 '42
Cargo war risk rates revised on voyages between Atlantic or Pacific ports and the Far East via Cape of Good Hope. Nat Underw 46:17 F 5 '42
Changes in war risk rate affect Atlantic shipments. Weekly Underw 146:273 Ja 31 '42
Drastic revisions made in cargo war risk rates; changes for Australasia, Africa and Far East. Weekly Underw 145:1289 D 6 '41; Nat Underw 45:25 D 4 '41
Export insurance rates, to provide basis for specific shipments. Weekly Underw 146:548 Mr 7 '42
Federal agency now enters cargo war risk field. Nat Underw 46:3+ F 26 '42
Federal war risk rates; lower quotations on seven routes. East Underw 43:29 F 27 '42; Weekly Underw 146:482 F 28 '42
Further increases in war sea rates. Nat Underw 46:15 Jl 2 '42
Government revises schedule of marine war risk insurance rates; apply to quotations after March 16. East Underw 43:26 Mr 20 '42; Oil Paint & Drug Rep 141:3+ Mr 23 '42
Great Lakes pre-season shipping rates reduced. Weekly Underw 146:786 Ap 4 '42
Import war risk rates cut by WSA to levels of Jan. 1. Nat Underw 46:1 Ag 13 '42
Increases in marine war rates; Canadian, western hemisphere, Pacific coast and local U. S. voyages. Nat Underw 46:15 My 14 '42; Weekly Underw 146:1115 My 16 '42
Increases in war risk rates made by marine underwriters. East Underw 43:27 Je 19 '42
Increases in wartime marine surcharge rates. Weekly Underw 147:132 Jl 18 '42; Nat Underw 46:30 Jl 16 '42
Large increases made in marine war risk rates. East Underw 43:37 Ap 17 '42
Marine companies to impose surcharge rates. Weekly Underw 146:229 Ja 24 '42
Marine insurance in war time. H. H. Reed. Weekly Underw 147:450-2 Ag 29 '42; Same abr. East Underw 43:1+ Ag 28 '42; Abstract. Nat Underw 46:1+ Ag 27 '42
Marine surcharges eliminated as aid to OPA. Nat Underw 46:28 Ag 6 '42
Marine underwriters who make war risk rates. East Underw 42:89 D 12 '41
Marine war rates cut. East Underw 43:14 Ag 28 '42; Nat Underw 46:13 Ag 27 '42
Marine war risk rates raised twice in week. East Underw 43:20 Mr 27 '42
Move to stabilize marine war risk rating system. Nat Underw 46:3+ F 5 '42; Weekly Underw 146:331-2 F 7 '42; Marine Eng 47:119+ Mr '42
New time charter rates for dry cargo vessels; increases made by W.S.A. Weekly Underw 146:1164 My 23 '42
New WSA war rate list. East Underw 43:28 O 16 '42
Pacific risk rates; increases announced on West Coast voyages. Weekly Underw 147:77 Jl 11 '42
Post-season rates for lake ore boats sharply reduced. Nat Underw 45:32 N 27 '41
Rate changes on cargo; increases on western hemisphere voyages. Weekly Underw 146:1117 My 16 '42
Rates applicable to fishing vessel hulls. Weekly Underw 147:863 O 10 '42
Rates for cargoes to foreign ports drastically raised by War shipping administration. Weekly Underw 147:230 Ag 1 '42
Revised schedule of surcharges on marine cargo and specie rates in Great Britain. East Underw 43:28 Ja 9 '42
Revised schedule of war risk insurance rates; War shipping administration. Marine Eng 47:165 Ap '42
Schedule of war risk insurance rates, announced by War shipping administration, Feb. 24. Marine Eng 47:113 Mr '42
Sharp increases made in cargo war risk rates, effective April 16. Nat Underw 46:19+ Ap 16 '42
Some reductions in marine rates. Nat Underw 45:29 D 18 '41
Transshipment war risk rate increased. Weekly Underw 146:1455 Je 27 '42
Underwriters advance N.Y.-Boston risk rates. Weekly Underw 147:76 Jl 11 '42
Upward trend continues in cargo war risk rates. Weekly Underw 147:130 Jl 18 '42; Same. East Underw 43:23 Jl 17 '42
War brings sharp rise in marine rates in Pacific. Nat Underw 45:5+ D 11 '41
War risk rate schedule amendments. Weekly Underw 146:434 F 21 '42
War risk rates changed as areas of submarine sinkings are shifted. East Underw 43:27 O 23 '42; Same. Weekly Underw 147:970 O 24 '42
War risk rates in Pacific cut. Nat Underw 45:15 D 25 '41
War risk rates reduced on Australian shipments. Weekly Underw 145:1404 D 20 '41
War risk rates to Greenland advanced. Weekly Underw 146:601 Mr 14 '42

INSURANCE, Marine—Rates—*Continued*

War risks eased; insurance rates on ships go on monthly basis. Business Week p23-4 F 21 '42
WSA denies subsidy rates to 15 import items. Nat Underw 46:3 S 3 '42; Oil Paint & Drug Rep 142:5 S 7 '42
War shipping administration issues changes in war risk rates. Weekly Underw 147:131 Jl 18 '42
W. S. A. issues new master list. Ins Field (Fire ed) 71:10+ O 15 '42
WSA issues new rates for hulls on inland waters. Nat Underw 46:2 Ag 20 '42; Same. Weekly Underw 147:409 Ag 22 '42
World-wide changes in cargo war risk rates. Weekly Underw 145:1336 D 13 '41

Risks

Problems of insuring defense stores weighed. Nat Underw 45:1 N 27 '41

Study and teaching

New marine educational course announced by Automobile and Standard Fire. East Underw 43:17 My 8 '42

Valuation of property

Maritime commission fixes basis for limitation of vessel values. East Underw 43:31 F 13 '42; Weekly Underw 146:381-2 F 14 '42
Valuation of ships for war risk insurance. Marine Eng 47:136+ Mr '42

War problems

Effect of the war on marine insurance. H. D. Van Gils. Weekly Underw 146:1341+ Je 13 '42

War risks

American cargo war risk reinsurance exchange has credit balance after three war years. Comm & Fin Chr 156:1636 N 5 '42; Nat Underw 46:3+ O 29 '42; East Underw 43:24 O 30 '42
Australia issues rules on marine war risks. Weekly Underw 147:809 O 3 '42
Australia issues standard charter for requisitioned ships; government war insurance defined. Weekly Underw 145:1078 N 8 '41
Bulk of cargo war risk now going to government. Nat Underw 46:1 Je 25 '42
Cargo war risk; insurance of imports. P. Chubb. Weekly Underw 147:923 O 17 '42
Cargo war risk policy substantially altered. Weekly Underw 146:720 Mr 28 '42
Cargo war risk underwriting program of the WSA; abstracts. H. C. Thorn. East Underw 43:31+ O 2 '42; Nat Underw 46:1+ O 1 '42; Weekly Underw 147:781+ O 3 '42
Clairvoyant powers needed to conduct wartime business. W. S. Kaufmann. Ins Field (Fire ed) 70:8-9 N 6 '41; Same abr. East Underw 42:28 O 31 '41
Conduct forum on WSA war risk cargo covers. H. C. Thorn; F. A. Zeller. East Underw 43:25 Ag 14 '42
Congress votes increase in war risk insurance fund. Comm & Fin Chr 155:2129 Je 4 '42
Coverage of cargoes insured by War shipping administration; shipments held or unloaded at intermediate ports. Weekly Underw 146:602 Mr 14 '42; Same abr. Oil Paint & Drug Rep 141:5+ Mr 16 '42
Coxwold loss held to be due to direct result of warlike operation. East Underw 43:24 Jl 31 '42
Effect of war upon contracts of insurance: frustration discussed. Weekly Underw 146:1006-8 My 2 '42
Extend war cover 60 days on stranded cargoes. Nat Underw 46:8 F 5 '42
Eye marine losses, insurance stocks. Nat Underw 46:1 My 14 '42
Free of British capture clause to be eliminated. Weekly Underw 145:1081 N 8 '41
Government announces additional regulations governing war risk coverage on cargo. East Underw 43:23 Jl 17 '42
Government states cargo writing plans. Weekly Underw 146:421+ F 21 '42; Marine Eng 47:127 Mr '42; Nat Underw 46:3+ F 26 '42
Government war risk insurance; abstracts. P. Chubb, 2d. East Underw 43:31 Je 5 '42; Nat Underw 46:2 Je 4 '42; Weekly Underw 146:1342+ Je 13 '42
House adds $210,000,000 to government's marine risk fund. Nat Underw 46:5 My 21 '42
House considers bill to extend war risk cover to foreign hulls. East Underw 43:35 Mr 6 '42; Nat Underw 46:13 Mr 5 '42
House of lords decides that stranding of ship is war loss. Weekly Underw 147:129-30, 178+ Jl 18-25 '42
How British government has met insurance problems of this war. J. G. Foster. East Underw 42:30 D 19 '41
Import and export prohibited in certain Empire states unless marine and war risk is covered. Weekly Underw 145:1401 D 20 '41
Insuring cargoes; new problems arising from war in Pacific. Business Week p49-50 D 20 '41
Marine and land war risk covers analyzed. E. D. Lawson. Nat Underw 46:4+ Mr 19 '42
Marine field eyes Neutrality act repeal with caution. Nat Underw 45:5+ N 27 '41
Marine institute names information committee to clear all coverage developments. D. Porter. Ins Field (Fire ed) 71:11-12 My 7 '42
Marine insurance. Economist 143:274-5 Ag 29 '42
Marine insurance and the war. Comm & Fin Chr 155:1938 My 21 '42
Marine insurance in war time. H. H. Reed. Weekly Underw 147:450-2 Ag 29 '42; Same abr. East Underw 43:1+ Ag 28 '42; Abstract. Nat Underw 46:1+ Ag 27 '42
Marine or war loss: tabulation of decided cases. Weekly Underw 147:559-60 S 12 '42
Marine underwriters who make war risk rates. East Underw 42:89 D 12 '41
Marine war risk action; removal of non-tanker barges from cargo war risk rate schedule. Nat Underw 46:37 Mr 26 '42
Marine war risk rules; War shipping administration issues regulations. East Underw 43:20 Mr 27 '42
Maritime board prepares to engage in insurance. Nat Underw 45:5 D 18 '41
Maritime commission covering war risks on American hulls. East Underw 43:1+ Ja 9 '42; Nat Underw 46:3+ Ja 8 '42; Weekly Underw 146:139 Ja 10 '42; Marine Eng 47:94-5 F '42
New British decision on collision in convoy; claim held marine risk. East Underw 43:33+ Ag 21 '42; Weekly Underw 147:407+ Ag 22 '42
New W.S.A. bulletin governing the payments for war risk insurance. East Underw 43:22 Ag 28 '42
President signs bill on marine war risk insurance. Comm & Fin Chr 155:1639 Ap 23 '42
Recovery of freight and instalments on charter parties possible under British law. Weekly Underw 147:229 Ag 1 '42
Scandinavian shipping problems; situation of requisitioned ships. Weekly Underw 146:431+ F 21 '42
Studying cover for inland water ships. Weekly Underw 146:1285 Je 6 '42
Three-year marine war risk losses exceed premiums by $1,453,690. East Underw 43:20 Je 12 '42; Weekly Underw 146:1321+ Je 13 '42; Nat Underw 46:31 Je 11 '42; Spectator (Property ed) 7:21 Je 11 '42
Two new WSA operations create bonding needs. Nat Underw 46:13+ Ag 6 '42; Spectator (Property ed) 8:23 Ag 20 '42
Underwriters cooperating with government, but do not agree with all its ideas; abstracts. W. D. Winter. East Underw 43:28 O 16 '42; Weekly Underw 147:922+ O 17 '42; Nat Underw 46:4 O 15 '42
U.S. war insurance is offered to shipowners. Comm & Fin Chr 155:230 Ja 15 '42
Valuations are biggest problem in acting for WSA. R. B. Mitchell. Nat Underw 46:1+ S 10 '42

INSURANCE, Marine—War risks—*Continued*

War and marine insurance. Comm & Fin Chr 154:1040 N 13 '41

War risk information now handled by special underwriters' committee. East Underw 43: 27+ My 8 '42; Same abr. Weekly Underw 146:1009 My 2 '42

War risk insurance by Isthmian line. Weekly Underw 146:1284 Je 6 '42

War risk, marine, cargo; American institute, March, 1942. Spectator (Property ed) 7:27 Ap 2 '42

War risk; marine, cargo; open policy form no. 2-C, and endorsement form A. Spectator (Property ed) 7:22-3 N 13 '41

War risk measure sent to President; Maritime commission authority to write insurance on any vessel, crew or cargo; text. Weekly Underw 146:837, 840, 845 Ap 11 '42

War risk rules revised; War shipping administration announces modifications. East Underw 43:27 Je 19 '42

War risk rulings on specific shipments; quotations on voyages or exposures not within published schedules. Weekly Underw 147:669 S 19 '42; East Underw 43:23 S 11 '42

W.S.A. broadens field of operations. East Underw 43:25 Ag 14 '42; Same abr. Comm & Fin Chr 156:815 S 3 '42

WSA changes valuation basis. Nat Underw 46:4 S 17 '42

WSA issues open cargo coverage memo number 2. East Underw 43:24 Ag 7 '42

War shipping administration issues standard requisition charter. Weekly Underw 146: 1223 My 30 '42

WSA offers open war risk insurance policies covering imports. Marine Eng 47:161 S '42

WSA orders open cargo policies; coverage for imports. East Underw 43:18 Jl 31 '42; Nat Underw 46:2+ Ag 6 '42

WSA revises bulletin on war risk coverage. Weekly Underw 147:1017 O 31 '42

WSA withdraws rules on special cargo risks; petroleum. Weekly Underw 147:546+ S 12 '42

War time demands being met by American marine underwriters. F. Maccabe. East Underw 43:25 Ja 23 '42

War time extension clauses (marine); new method of giving protection. J. H. McKinney. Weekly Underw 146:1453+ Je 27 '42

Warshipopencargo. Spectator (Property ed) 8:22-3 Ag 6 '42

Warshipopencargo endorsements. Spectator (Property ed) 8:22 Ag 20 '42

Warshipopencargo; revision no. 2 to general bulletin no. 1. Spectator (Property ed) 8:26 O 29 '42

Writing shipping insurance in war time. Weekly Underw 146:1041+ My 9 '42

Writing WSA policies requires close attention. Nat Underw 46:31-2 S 3 '42

Australia

Australia issues rules on marine war risks. Weekly Underw 147:809 O 3 '42

Australia issues standard charter for requisitioned ships; government war insurance defined. Weekly Underw 145:1078 N 8 '41

Canada

Canadian exchange control regulations regarding marine insurance. Weekly Underw 147:325 Ag 15 '42

Great Britain

British marine underwriters adopt new ship warrant warranty. East Underw 43:30 Mr 27 '42

Institute of London underwriters' warranty agreements. East Underw 43:17 My 29 '42

Litigation between shipping co., captain and seamen over insurance proceeds; enemy alien problem. Weekly Underw 147:558 S 12 '42

Marine insurance. Economist 143:274-5 Ag 29 '42

Recovery of freight and instalments on charter parties possible under British law. Weekly Underw 147:229 Ag 1 '42

War problems of British underwriters. G. R. Ried; T. R. Berridge. East Underw 43:28 Ap 10 '42

United States

Underwriters praised for WSA cooperation. H. L. Vickery. Weekly Underw 147:970 O 24 '42

War impact on American marine cover. H. C. Thorn. Weekly Underw 146:56+ Ja 3 '42

War risk information now handled by special underwriters' committee. East Underw 43: 27+ My 8 '42

Writing shipping insurance in war time. Weekly Underw 146:1041+ My 9 '42

INSURANCE, Military and naval service

Administrator Hines opposes disability cover for soldiers. Nat Underw (Life ed) 46:3 Ap 10 '42

Hidden values in your life insurance; war and the possibility of inflation bring new problems. B. W. Levmore. Barron's 22:7 Je 29 '42

History of U.S. insurance sold during last war. Nat Underw (Life ed) 46:6 S 4 '42

La Follette seeks $5,000 free U.S. cover for soldiers. Nat Underw (Life ed) 46:1 F 20 '42

National service and civil relief acts of 1940 seen as wise and fair federal program of insurance. D. Porter. Ins Field (Life ed) Conv ed 71:23-7 Ag 19 '42

Nearly 17 billion national service cover issued. Nat Underw (Life ed) 46:2 Je 5 '42

Premium waiver procedure on service cover. Nat Underw (Life ed) 46:1 O 2 '42

Question of disability coverage under service contract considered. Nat Underw (Life ed) 46:8 S 25 '42

Selling national service insurance at Great Lakes. W. C. Nigut. Nat Underw (Life ed) 46:3-4 S 18 '42

Soldiers get new chance to buy U.S. insurance. Nat Underw (Life ed) 46:4 Ja 2 '42

See also
Military service—Insurance aspects

INSURANCE, Mortgage

FHA issues ruling on damage by bombs. East Underw 43:26 Ja 9 '42

INSURANCE, Moth damage

Litigation over trade guarantee cover reveals problems involved; LaFrance Industries and Pennsylvania Lumbermen's claims. Nat Underw 46:9 Ja 22 '42

INSURANCE, Motor boat

Gas curbs cut yacht premiums. Nat Underw 46:3 My 14 '42

To endorse yacht cover for charter under Navy League plan without charge. Nat Underw 46:41 My 21 '42

Adjustment of claims

Conditions permitting abandonment of yacht defined in federal case. East Underw 42:38 N 7 '41

Constructive total loss of yacht affirmed by federal appeal court. East Underw 43:34 O 9 '42

New British case on yacht insurance; peril of the sea defined. Weekly Underw 145: 1235-6 N 29 '41

INSURANCE, Motor bus

Fear of overcrowding may boost bus liability claims. Nat Underw 46:25 O 15 '42

Passenger car-bus now a problem. Nat Underw 46:27 My 21 '42

Adjustment of claims

Assaults in relation to liability insurance; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:42-4 Mr 5 '42

Court holds intrastate commerce is subject to laws of the state. East Underw 43:34 My 8 '42

Policies

Auto rules revised, medical payments, layups extended. Nat Underw 46:21+ Je 4 '42

INSURANCE, Motor bus—*Continued*

Rates

National bureau commended for war work; co-operation in solving transportation problem. Ins Field (Fire ed) 71:8-9 O 1 '42; East Underw 43:43+ S 25 '42

INSURANCE, Motor truck

Effect of the 75 per cent truck order on insurance. Spectator (Property ed) 8:30 Jl 23 '42

Eight truck concerns in big merger deal. East Underw 43:35 Mr 27 '42

Full truck rule produces problems for underwriters. Nat Underw 46:20 S 17 '42

Long haul truck prospects appear to be excellent. Nat Underw (Auto ins no) 46:17+ Ap 20 '42

Motor carriers' role in defense effort. S. A. Markel. East Underw 43:28 Ja 2 '42

Truck operators now face real insurance situation. Nat Underw 46:19+ My 21 '42

Underwriters seek to get proper definition of light and other trucks. Nat Underw 45:4 N 20 '41

Will wedding bells ring for John and Barbara; you must ask your English grammar; Massachusetts motor vehicle liability policy. Weekly Underw 147:412+ Ag 22 '42

Work out plan to meet problems of new ODT truck rule. Nat Underw 46:3 Ag 20 '42

Adjustment of claims

Agreement to assign policy held not to be an actual assignment. East Underw 43:27 O 23 '42

Carrying passengers clause held to suspend, not void, auto policy. East Underw 43:27 S 4 '42

Hay grinder mounted on four wheels held trailer or vehicle within exclusion provisions of liability policy. Weekly Underw 145:1473 D 27 '41

Insured's testimony contrary to statements previously given insurer held breach of cooperation clause. Weekly Underw 147:302 Ag 8 '42

Liability of automobile carrier for acts of unincorporated association; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:22-3 Ap 30 '42

Rates

Texas issues order on truck insurance. Nat Underw 46:19 Je 11 '42

New York (state)

New York truck renters risk right to drive. Nat Underw 46:19 F 26 '42

INSURANCE, Motor truck contents

Demand for high cargo limits by trucking lines. Nat Underw 45:39 N 20 '41

Special treatment for shippers is forbidden by I.C.C. Nat Underw 46:38 F 12 '42

Adjustment of claims

Court defines forwarder of goods as distinguished from carrier. East Underw 43:37 Ap 17 '42

Motor truck cargo insurance. T. L. Osborn, jr. Weekly Underw 146:1401 Je 20 '42

INSURANCE, Moving picture negative film

Motion picture film. Spectator (Property ed) 7:29 Mr 19 '42

INSURANCE, Mutual

Assessment of non-resident policyholders; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-8 Ja 8; 30-1 My 28 '42

Assessment order in Central Mutual case is upheld. Nat Underw 46:21+ Ja 29 '42

Attacks mutuals' position on income taxes; abstracts. R. Murphy. Nat Underw 46:15+ Ap 23 '42; East Underw 43:47+ Ap 24 '42

Clarification of mutual status felt advisable; abstracts. S. Pierson. Nat Underw (Life ed) 45:3+ D 19 '41; East Underw 42:11 D 19 '41

Confer on Massachusetts non-assessable provisions. Nat Underw 46:10 F 5 '42

Country wide experience of casualty companies; underwriting exhibit, for year 1941, for companies entered in New York. Nat Underw 46:21-2+ My 21 '42

Country-wide underwriting results, 1937-41, of companies licensed in New York state; tabulation. East Underw 43:11-12 pt 2 My 15 '42

Enlists policyholders in federal income tax battle. H. G. Kemper. Nat Underw 46:25 S 3 '42

Factory mutuals fight tax move. Nat Underw 46:3+ Ap 16 '42

Holds Ohio law for mutualization is unconstitutional. Nat Underw (Life ed) 46:7 S 4 '42

Lien for mutual assessment upheld by Michigan court. Nat Underw 46:2 O 1 '42

Massachusetts commissioner asks great care in underwriting non-assessable mutual policies. East Underw 43:30 F 13 '42

Massachusetts makes non-assessable rules. Weekly Underw 146:879+ Ap 18 '42

Murphy urges committee to tax big mutuals; Senate finance group hearings. Ins Field (Fire ed) 71:7+ Ag 20 '42

Mutual assessment can't be collected; New York insurance department loses test. Weekly Underw 145:1321 D 13 '41

Mutual casualty insurance companies having admitted assets of $100,000 or over, business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:967-8 Ap 25 '42

Mutual companies' 1941 figures. Nat Underw 46:8 Ja 29; 34 F 5; 15 F 12; 8 F 19; 37 Mr 19 '42

Mutual fire insurance companies having admitted assets of $100,000 or over, business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:895-7 Ap 18 '42; Correction. 146:946 Ap 25 '42

Mutual leaders assail income tax proposal. Nat Underw 46:2+ Ag 20 '42

Mutual premiums higher by 18% in '41; State Farm widens lead. Nat Underw (Auto ins no) 46:24 Ap 20 '42

Mutual tax provisions of House bill. Spectator (Property ed) 8:9, 34-5 S 3 '42

Mutual taxation plan opposed. A. V. Gruhn. East Underw 43:38 Ap 17 '42

Mutual taxation position taken by federal body. Nat Underw 46:4 Je 11 '42

Mutuals ask withdrawal of NAIA war damage plan. P. L. Baldwin. Weekly Underw 146:829 Ap 11 '42

Mutuals put up stout fight against U.S. tax. R. B. Mitchell. Nat Underw 46:21+ Ap 16 '42

Mutuals seek aid of members in tax fight. East Underw 43:29+ S 4 '42

New menace to insurance. W. C. Betts. Comm & Fin Chr 156:1714-15 N 12 '42

New York Board report shows mutuals increased ratio of total fire business from 1936 to 1941. Ins Field (Fire ed) 71:9 Mr 12 '42

Non-assessable bill signed in Massachusetts. East Underw 42:22 N 7 '41

Non-assessable fire forms are held illegal in Maine. East Underw 43:19 Ag 28 '42

Non-assessable policies still barred in Maine. Nat Underw 46:2 Ag 6 '42; East Underw 43:20 Ag 7 '42

Policyholder loses assessment fight; North Carolina trucker must pay Central Mutual receiver. Nat Underw 46:15+ Ag 13 '42

Policyholders of Wisconsin Mutual fight assessment. Weekly Underw 147:410 Ag 22 '42

Predicts post war insurance changes; abstracts. J. L. Train. Weekly Underw 147:909+ O 17 '42; East Underw 43:29+ O 16 '42

Prudential now free to complete mutualization. Nat Underw (Life ed) 46:3 Ag 7 '42

Sees movement of mutuals to cut dividends. F. T. Moses. Nat Underw 45:5 D 25 '41

Senate formula would change mutual taxes. East Underw 43:24+ S 18 '42; Nat Underw 46:1 S 17 '42

INSURANCE, Mutual—*Continued*

Stock and mutual fire premiums; comparisons, 1937-1941; graph. Spectator (Property ed) 8:19 S 17 '42

Sues for portion of surplus; case against Liberty Mutual. Nat Underw 46:23 O 15 '42

Tax bill provides for equality of taxation. East Underw 43:28-9 Jl 24 '42

Taxation of mutual casualty companies urged; abstracts. R. Paul. East Underw 43:36 Mr 6 '42; Nat Underw 46:27+ Mr 5 '42

Taxation of mutual companies expected to raise $5,000,000 annually. East Underw 43:25 O 30 '42; Nat Underw 46:19 O 29 '42

Texas court rules out mutuals on school lines. Nat Underw 46:3+ Ap 2 '42

Theory of membership fee pondered in Wisconsin case. Nat Underw 46:20 Ja 22 '42

Trend of automobile liability net premiums, year ending Dec. 31, 1941 and first 6 months of 1941 and of 1942; tabulation. Spectator (Property ed) 8:21 S 17 '42

Union Central action postponed. Nat Underw (Life ed) 46:11 My 8 '42

What price mutuals? E. Middleton. Ins Field (Fire ed) 71:18-20 Je 18 '42

See also

American mutual reinsurance company

Federation of mutual fire insurance companies

National association of mutual insurance companies

INSURANCE, Owners', landlords' and tenants' public liability

Hotel men intimate drastic rate action. Nat Underw 46:18 O 8 '42

New medical payment coverage for residence risks. East Underw 43:39 Ap 17 '42; Nat Underw 46:21 Ap 16 '42; Spectator (Property ed) 7:27 Ap 30 '42

Strong arguments from court cases for O. L. & T. insurance. E. J. Donegan. East Underw 43:30 Jl 17 '42

Coverage

New owners', landlords' and tenants' coverage for bicycle liability and volunteer war workers. East Underw 43:28+ Jl 10 '42; Nat Underw 46:17-18 Jl 16 '42

INSURANCE, Patent

What about patent insurance? abstract. F. L. Andrews. Management R 31:31-2 Ja '42

INSURANCE, Personal effects

Provisions of the government personnel effects floater. F. C. Crowell, jr. Ins Field (Fire ed) 70:24-5 N 20 '41

See also

Insurance, Inland marine—Policies—Personal property floater

Insurance, Tourist baggage

INSURANCE, Physicians' and surgeons' instruments

Physicians', surgeons' and dentists' instruments floater. F. C. Crowell, jr. Ins Field (Fire ed) 71:20 Ap 16 '42

INSURANCE, Plate glass

Many increases in plate glass rates. Nat Underw 46:19 Ja 15 '42; Correction. 46:21 F 19 '42

Plate glass shown to be unusually good buy today. Nat Underw 46:16 Ag 13 '42

Valuable glass survey service given in Detroit. Nat Underw 46:20 F 19 '42

War creates plate glass problems. Nat Underw 46:18 S 3 '42

INSURANCE, Power plant

Advantages of group boiler cover. L. G. Wimmer. Nat Underw 46:40 Ap 2 '42

Boiler and machinery cover. F. E. Fain. Nat Underw 45:27 N 27 '41

Boiler and machinery equity rating plan causes controversy among producers and companies. D. Porter. Ins Field (Fire ed) 71:8-9 Ja 22 '42

Boiler equity rating scheme stirs discussion. Nat Underw 46:17 Ja 8; 19+ Ja 15 '42

Boiler equity rating suspended temporarily. East Underw 43:26 Ja 23 '42; Nat Underw 46:17 Ja 22 '42

Boiler-machinery manual is completely revised. Nat Underw 46:19+ My 21 '42

Bureau revises malicious mischief endorsement in boiler, machinery policies. Nat Underw 46:68 S 24 '42

Endorse war risk out of boiler and machinery policies. Nat Underw 46:21 S 17 '42

Equity rating plan for boiler risks. R. W. Howe. East Underw 43:42 Ap 17 '42

Equity rating plan in stage of fluidity. D. Porter. Ins Field (Fire ed) 71:13 Mr 5 '42

Exclude priorities losses under power plant U. & O. forms. Nat Underw 45:22 N 6 '41

Losing many technical men; companies find forces being taken by outsiders. Nat Underw 46:22 S 10 '42

Machinery breakdown insurance. A. F. Graham. Am Water Works Assn J 33:2192-200 D '41

New boiler plan soon to be used. A. Dodge. Nat Underw 46:17+ My 14 '42

Priorities the umpire in handling of boiler-machinery U. & O. J. E. Cummings. East Underw 42:35 D 19 '41

Proper machinery coverage presents many problems. P. H. Schindler. Nat Underw 45:25 D 11 '41

Study effect of boiler change; net rate level increased. Nat Underw 46:23 My 28 '42

Substantial boiler, machinery gain. Nat Underw 46:15 Ja 1 '42

War coverage on machinery and boilers a problem. Nat Underw 46:15-16 Ag 20 '42

See also

Insurance, Boiler

INSURANCE, Product liability

Greater hazard in product liability because of war. Nat Underw 46:16 Ag 27 '42

Products liability insurance; abstract. Management R 30:458-9 D '41

INSURANCE, Profits and commissions

Profits and commissions insurance and how it works. F. C. Crowell, jr. Ins Field (Fire ed) 71:20-1 Ja 29 '42

INSURANCE, Public liability. See Insurance, Liability

INSURANCE, Radium floater. See Insurance, Inland marine—Policies

INSURANCE, Rain

Proof of requisite amount of rainfall at agreed place of measurement held condition precedent to recovery. Weekly Underw 146:118 Ja 3 '42; East Underw 42:75 D 12 '41

Rain insurance is coverage seldom solicited by average agent. F. C. Crowell, jr. Ins Field (Fire ed) 70:22-3 D 11 '41

INSURANCE, Reciprocal

Commissioner Taggart wins Keystone action. East Underw 43:38 F 20 '42

Reciprocal and inter-insurance exchanges, Lloyds, etc. having admitted assets of $100,000 or over, business of 1941 and condition December 31, 1941; tabulation. Weekly Underw 146:898 Ap 18 '42

Reciprocal member loses; Maryland court rules defunct Keystone Exchange had power of attorney to act. East Underw 43:52 Ap 24 '42

Where is a reciprocal insurance exchange doing business? digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:50-2+ S 17 '42

INSURANCE, Registered mail

Registered mail and/or express shipments: war risk open policy form. Spectator (Property ed) 8:22-3 S 3 '42

Registered mail policy good selling form. C. T. Merwin. Weekly Underw 146:838-9 Ap 11 '42

INSURANCE, Rent

Buy rent cover for 3-year recovery. Nat Underw 46:1 O 22 '42

Companies may lose heavily in courts on technicality claims. Nat Underw 46:6+ S 17 '42

Protect rental income urges New York broker. F. Crystal. Weekly Underw 146:835 Ap 11 '42

INSURANCE, Rent—*Continued*

Rent insurance hot topic; controversial clauses. S. Levin. Nat Underw 46:6 S 17 '42

Rent insurance in wartime. F. G. Howard. Nat Underw 46:2+ O 8 '42

Rents insurance frequently overlooked. C. T. Hubbard. Barron's 21:7 D 22 '41

War's effect on rental, leasehold values. R. S. Jackson. East Underw 43:27 F 27 '42

INSURANCE, Residence employers' liability. See Insurance, Employers' liability

INSURANCE, Residence liability

Casual employee held covered by policy insuring against liability for injury to person not employed by insured. Weekly Underw 147:995 O 24 '42

New medical payment coverage for O.L. & T. residence risks. East Underw 43:39 Ap 17 '42; Nat Underw 46:21 Ap 16 '42; Spectator (Property ed) 7:27 Ap 30 '42

INSURANCE, Riot and civil commotion

Riot and sabotage insurance protection. E. A. Cordes. East Underw 42:26 D 5 '41

Vandalism coverage

Endorsement extending riot and civil commotion policy to cover loss caused by vandalism and malicious mischief; mandatory endorsement for riot and civil commotion policies. Spectator (Property ed) 7:24 D 11 '41

New war risk exclusion clause in Midwest. Nat Underw 46:6 Ja 8 '42

Vandalism and war form, rate changes. East Underw 42:81 D 12 '41

INSURANCE, Robbery. See Insurance, Burglary

INSURANCE, Sickness. See Insurance, Health

INSURANCE, Silverware floater policy. See Insurance, Inland marine—Policies

INSURANCE, Social

Approaches to social security; an international survey. 100p bibliog(p98-100) pa 50c Int. labor office '42; Review. Monthly Labor R 54:1135-8 My '42

First Inter-American conference on social security. Int Labour R 46:606-19 N '42

Future of social security. W. R. Williamson. East Underw 43:3+ Ja 23 '42

Hospital groups sidestep social security proposal. Nat Underw 46:20 F 19 '42

Labor's chief need: job security. F. B. Kirkbride. Trusts & Estates 75:231-2 S '42

Social and property security. A. N. Holcombe. Trusts & Estates 74:463-4 My '42

Social security in war and peace; what is proper scope of financial aid by the state? A. Myrdal. Trusts & Estates 74:551-5 Je '42

See also

Insurance, Disability
Insurance, Health
Insurance, Unemployment
Insurance, Workmen's compensation
Old age pensions
Social security act, 1935

Argentina

Problems and prospects of social security in Argentina. J. G. Galé. Int Labour R 45:483-92 My '42

Proposed extension of social insurance in Argentina. Int Labour R 45:342-5 Mr '42

Bulgaria

Compulsory insurance for salaried and professional workers in Bulgaria. W. Barbour. Monthly Labor R 53:1206-7 N '41

Chile

Aims and achievements of the Chilean preventive medicine act. M. de Viado. Int Labour R 46:123-35 Ag '42

Costa Rica

Application of the social insurance act in Costa Rica. Int Labour R 45:575-8 My '42

Social-insurance law of Costa Rica, 1941. S. R. Tyler, jr. Monthly Labor R 55:239-40 Ag '42

Ecuador

Social insurance reform in Ecuador. Int Labour R 46:499-502 O '42

France

Changes in the French social insurance system. Int Labour R 46:88-91 Jl '42; Abstract. Monthly Labor R 55:479-81 S '42

Germany

Adjustment of social-insurance systems in Germany to war conditions. Monthly Labor R 53:1438-41 D '41

Sickness insurance for insurance pensioners in Germany. S. E. Woods. Monthly Labor R 54:445 F '42

Great Britain

Determination of needs. Economist 142:389 Mr 21 '42

Determining needs. Economist 142:249 F 21 '42

New divide; national health and pensions insurance scheme. Economist 142:10 Ja 3 '42

Part-time workers. Economist 142:498-9 Ap 11 '42

Rise in British pension rates; old age and widows' pensions. Monthly Labor R 55:744 O '42

Social security. Economist 142:599 My 2 '42

Mexico

Draft social insurance bill in Mexico. Int Labour R 45:345-8 Mr '42

New Zealand

Operation of New Zealand social-insurance system, 1940-41. Monthly Labor R 53:1441-2 D '41

Peru

Work of the Peruvian social insurance fund. Int Labour R 46:91-4 Jl '42

Russia

Social insurance in Russia. Economist 141:779 D 27 '41

United States

Administration's ultimate social security objectives. J. M. Powell. Ins Field (Life ed) 71:6 O 23 '42

Federal measure threatens private A. & H. business. D. Porter. Ins Field (Fire ed) 71:8-9+ S 24 '42; Same. Ins Field (Life ed) 71:6+ S 25 '42

Federal old-age insurance coverage up 5,000,000. Comm & Fin Chr 155:351 Ja 22 '42

FDR opposes freezing social security tax. Comm & Fin Chr 156:1448 O 22 '42

Government disability proposals. H. R. Gordon. Weekly Underw 146:645+ Mr 21 '42; Abstracts. East Underw 43:28-9+ Mr 20 '42; Nat Underw 46:23+ Mr 19 '42

May bring service men under social security benefits. East Underw 43:1+ S 18 '42

Men in armed services could lose benefits under Social security. East Underw 43:16 N 6 '42

Slants on social security and life insurance. C. W. Hall. Weekly Underw 147:374-7+ Ag 22 '42

Social security benefits. F. J. O'Brien. Ins Field (Life ed) 70:18-19+ D 12 '41

Social security board favors sickness benefits. Nat Underw 46:27 Mr 5 '42

Social security board reports results, aims. Nat Underw (Life ed) 46:6 Mr 13 '42

Social security for all. R. B. Robbins. il Spectator (Life ed) 149:4-9+ O; 34-8, 56-63 N '42

Social security in the United States, 1940-41. Int Labour R 45:521-8 My '42

Social security in the United States, 1941; a record of the fourteenth National conference on social security, New York city, April 4-5, 1941, together with a census of social security in the United States. 187p $2 Am. assn. for social security, 22 E. 17th st, New York '41

INSURANCE, Social—United States—*Continued*

Social security tax frozen at 1% for 1943 in proposed tax bill. Comm & Fin Chr 156:1173 O 1 '42

Socialization of disability is seen in the offing; broadening of Social security act. L. D. Cavanaugh. Nat Underw 46:20+ My 21 '42; Same. Nat Underw (Life ed) 46:4 My 22 '42

Taxes under Eliot bill would be $6,000,000,000 annually; objective of the Insurance economics society; abstracts. W. G. Curtis. Weekly Underw 147:959+ O 24 '42; East Underw 43:30+ O 23 '42

U.S. disability move to be made soon. H. R. Gordon. Nat Underw 46:19+ Jl 2 '42

Views broad implications of social insurance; abstracts. R. A. Hohaus. Nat Underw (Life ed) 46:8+ O 9 '42; East Underw 43:13 O 9 '42

War and postwar social security protection for the wage earner. A. J. Altmeyer. Ann Am Acad 224:165-74 N '42

See also

Social security act, 1935

INSURANCE, Sprinkler leakage

Defendant in damage suit cannot require insurers subrogated to plaintiff's rights be made parties plaintiff. Weekly Underw 147:154 Jl 18 '42

Sprinkler leakage insurance. Weekly Underw 147:422 Ag 22 '42

Sprinkler leakage insurance and how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:20 My 7 '42

Sprinkler leakage sales pointers. W. O. Lincoln. East Underw 43:28 My 29 '42

INSURANCE, State

Arbitration held only remedy of one insured by State board of hail insurance. Weekly Underw 147:1038 O 31 '42

Cooperative program for private insurers and government is asked; abstracts. J. W. Ryan. East Underw 43:1+ My 22 '42; Weekly Underw 146:1149+ My 23 '42

Duty of government is to govern; taking over insurance would be unwise. F. L. Brokaw. Weekly Underw 147:70 Jl 11 '42

Insuring property of county in state fund; ruling by Attorney General of Wisconsin. Weekly Underw 145:1064 N 8 '41

Mexican government in insurance business. Ins Field (Life ed) 71:8 Je 19 '42

Survey shows some states buy insurance; others use fire funds. East Underw 43:20 F 27 '42

Tennessee state fund surreptitiously comes into being. Nat Underw 45:36 D 11 '41

Trends in government ranks; abstracts. L. C. Hilgemann. East Underw 43:16 Ag 14 '42; Weekly Underw 147:318+ Ag 15 '42

Underwriters study sickness law; Rhode Island enactment. Weekly Underw 146:1264+ Je 6 '42

See also

Insurance, Military and naval service

Insurance, Social

Insurance, Unemployment

War damage corporation

INSURANCE, Surety and fidelity

Blanket bonds; insurer's rights of subrogation. M. Garrison. East Underw 43:29-30 Ag 28 '42

Blanket position bond—commercial bond: what's the difference? J. P. Madigan. Weekly Underw 147:756-8 S 26 '42

Bureau of contract information has an important place in unified war effort. D. Porter. Ins Field (Fire ed) 71:8-9+ Ja 1 '42

Companies holding certificates from Treasury as acceptable sureties on federal bonds; net limit acceptable; states in which incorporated and licensed; and judicial districts in which they have appointed process agents. Spectator (Property ed) 7:20-1 My 28 '42

Current problems and ideas treated by Kansas City surety men; blanket and position bonds. Nat Underw 46:23 Ja 1 '42

Employee investment, an approach to fidelity coverage. K. MacDonald. Weekly Underw 147:420-2 Ag 22 '42

Fidelity and surety true and false quiz. Weekly Underw 145:1146-7 N 15 '41

Fidelity cover broadened in past year. M. T. Wright, jr. Weekly Underw 146:72, 74 Ja 3 '42

$400,000 defalcation by trusted employees forced company bankruptcy. East Underw 43:38 pt 2 My 15 '42

Increased market for fidelity bonds. J. W. Roleke. East Underw 43:30 Jl 31 '42

Insuring your business; surety bonds guarantee the performance of contracts, duties and obligations. F. C. Crowell, jr. Barron's 22:7 O 12 '42

Law of fidelity bonds. F. H. Deady. 240p $5 Rough notes co, Indianapolis '41

1941 results good; outlook is confusing; executives view problems. W. L. Clapp. East Underw 42:31+ D 26 '41

Stock casualty-surety companies doing their share in battle of democracy. C. W. Fairchild. East Underw 42:93-4 D 12 '41

Surety and fidelity insurance educator. 224p $2 Underwriter ptg. and pub. co, New York '41

Surety business aids war effort. G. Bortz. Nat Underw 46:19+ S 10 '42

Treasury list of acceptable surety limits, as of April and Oct. 1941 and April 1942. Nat Underw 46:32 My 21 '42

Trying times, temptation to dishonest employee; bonds needed. Weekly Underw 147:82 Jl 11 '42

Two new WSA operations create bonding needs. Nat Underw 46:13+ Ag 6 '42; Spectator (Property ed) 8:23 Ag 20 '42

See also

Bankers' blanket bond

Insurance, Forgery

Adjustment of claims

Claim man and trial lawyer. L. T. Kissam. East Underw 43:33 My 8 '42

Fidelity and blanket bond coverages. F. W. Selsor. Weekly Underw 146:732-5 Mr 28 '42

Satisfying insuring public should be chief aim; public relations and surety claim men. A. Foster, jr. Weekly Underw 146:792+ Ap 4 '42

Agents

Bond field is potential source of income today. C. E. Megargel. Nat Underw 46:30 S 10 '42

Factors to remember in soliciting court and probate bonds; dangers of personal surety; purposes of joint control. A. H. Russell. Weekly Underw 145:1299-1300 D 6 '41; Abstract. Nat Underw 45:27 N 27 '41

Fidelity sales pointers in wartime. D. Quinn. Weekly Underw 147:1027-9 O 31 '42

Points on production of bonds. R. E. Brown. Weekly Underw 145:1454+ D 27 '41

Commissions

Surety bond commission problems. W. H. Stewart. East Underw 43:42 Ap 17 '42

Automobile financing indemnity bond

Auto financing indemnity. Spectator (Property ed) 7:22 N 27 '41

New bond for financing agencies. East Underw 42:29+ N 14 '41

Bail bonds

Caminetti issues rules on bail bond writings. East Underw 42:38 D 26 '41

Contract bonds

Court interprets bond law; rules Pitcher act in New York protects materialmen. Credit & Fin Management 44:22-3 S '42

Law helps sureties on New York state jobs. M. J. Hally. Nat Underw 46:21 F 5 '42

Pennsylvania opinion denies title companies may issue bonds. Ins Field (Fire ed) 70:14 N 27 '41

Position of surety under agreement; Assignment of claims act amendment does not subvert surety's rights. A. Foster, jr. East Underw 43:30 Ag 28 '42

INSURANCE, Surety and fidelity—Contract bonds—*Continued*

Priorities and how they affect sureties on contract bonds. B. E. Joline. East Underw 42:30-1 N 21 '41

Priorities pinch, war orders rush not valid excuse for not performing contract. Nat Underw 46:19+ Ja 29 '42

Surety on performance bond held not liable for premiums on liability policy procured by contractor. Weekly Underw 145:1311 D 6 '41

Coverage

Introduction to fidelity surveys. D. Quinn. Weekly Underw 146:495-7 F 28 '42

Sabotage coverage in bonds. Weekly Underw 146:664 Mr 21 '42

Depository bonds

$455,970 claim against National surety co. settled. East Underw 42:39 N 7 '41; Nat Underw 45:22 N 6 '41

Fiduciary bonds

Turbulent, protracted fiduciary bond litigation ended; estate of Thomas Corby. Nat Underw 46:21 Ja 8 '42; Weekly Underw 146:143 Ja 10 '42

Finance

Casualty-surety writings in New Jersey in 1941. East Underw 43:33-7 Mr 20 '42

Country-wide underwriting results, 1937-41, of companies licensed in New York state; tabulation. East Underw 43:5-7+, 11-12 pt 2 My 15 '42

Fidelity and surety results, country-wide experience of companies operating in New York, 1941. Nat Underw 46:18-19 Je 25 '42

New York department compiles fidelity and surety results, 1937-1941. East Underw 43:33 Je 26 '42

1941 casualty-surety results of all companies for New York state; tabulation. East Underw 43:15, 17-19+ pt 2 My 15 '42

Transactions of stock casualty and surety insurance companies in 1941. Spectator (Property ed) 8:12-14 Jl 23 '42

Judicial bonds

Approves partial bond in auto injury case appeal. Nat Underw 46:19 Jl 16 '42

Factors to remember in soliciting court and probate bonds; dangers of personal surety, purposes of joint control. A. H. Russell. Weekly Underw 145:1299-1300 D 6 '41

Judicial bonds; real opportunity for increasing premium volume; abstracts. J. W. Mitchell. Ins Field (Fire ed) 71:24-5 O 29 '42; Nat Underw 46:17+ O 8 '42

Largest bond issued by a surety company. Ins Field (Fire ed) 71:13 F 26 '42

License and permit bonds

C.P.A. license bond held to cover shortage. East Underw 42:31 N 28 '41

Injured party may recover on license bond of fireworks exhibitor without proof of negligence of principal. Weekly Underw 146:457 F 21 '42

Policies

Fidelity cover broadened in past year. M. T. Wright, jr. Weekly Underw 146:72, 74 Ja 3 '42

New light on the comprehensive DDD policy. W. H. McKinney. Spectator (Property ed) 7:22 Ja 8 '42

Package policy; Fidelity & Casualty amends dishonesty, disappearance and destruction policy; with chart showing coverages. W. J. LeMunyon. Ins Field (Fire ed) 71:17-19 My 21 '42; Same, without chart. East Underw 43:41 My 22 '42

Preventive work

Investigations and the national emergency. W. S. Hering. Weekly Underw 145:1459-60 D 27 '41

Prospects

Fidelity and surety bonds; production methods to meet reduced personnel problem. W. J. Purcell. Weekly Underw 147:189+ Jl 25 '42

General election creates big chance to sell bonds. J. J. Iago. Nat Underw 46:21 N 5 '42

Public officials bonds

Rules out bond renewals in New York. East Underw 43:38 F 27 '42

Rates

Army bond terms purely war measure. M. Lewis. Nat Underw 46:67+ S 24 '42

National defense contract bond rates cut by Towner bureau. East Underw 42:33 N 14 '41

New war contract bond setup gets good response. Nat Underw 46:19+ S 10 '42

Towner bureau and War department agree on rates for contract bonds. East Underw 43:28 S 4 '42; Weekly Underw 147:485+ S 5 '42; Nat Underw 46:19+ S 3 '42; Credit & Fin Management 44:28+ O '42; Spectator (Property ed) 8:22 O 1 '42

Statistics

Summary of casualty and surety premiums by states in 1940. Spectator (Property ed) 7:33 D 25 '41

Study and teaching

Fidelity and surety bonds, course no. 4 (cont). J. A. Manning and others. Weekly Underw 145:1200-1, 1459-60; 146:285-6, 495-7, 732-5, 1175-8; 147:189+, 420-2, 756-8, 1027-9, 1259-60 N 22, D 27 '41, Ja 31, F 28, Mr 28, My 23, Jl 25, Ag 22, S 26, O 31, N 28 '42

Fidelity and surety bonds; question and answer forum of Cincinnati fire underwriters association. Spectator (Property ed) 7:34 Mr 5 '42

Luther E. Mackall teaches class for National Surety young men. East Underw 42:113 D 12 '41

New Jersey

1941 production trends and outlook surveyed in Newark area. W. L. Clapp. East Underw 43:28 Ja 23 '42

Southeastern states

Results of southern operations in 1941. Weekly Underw 146:84-5 Ja 3 '42

INSURANCE, Taxicab

Illinois taxi rates to be boosted 10 percent. Nat Underw 46:16 Ag 27 '42

New taxicab policy and certificate form in Illinois. Nat Underw 45:29 D 11 '41

New York taxicab insurers to form new organization. Nat Underw 46:14 Jl 30 '42

ODT order on cabs not a problem. Nat Underw 46:69 S 24 '42

INSURANCE, Teams' public liability and property damage

As use of teams increases interest in covers revives. Nat Underw 46:35 My 28 '42

INSURANCE, Theft

Indemnity insurance company of North America issues new personal theft policy. Comm & Fin Chr 156:1151 S 28 '42; East Underw 43:50 S 25 '42; Nat Underw 46:68 S 24 '42

World-wide theft. Spectator (Property ed) 7:22 Ja 22 '42

INSURANCE, Tornado

Texas blow to cost $3,000,000. Nat Underw 46:3 S 10 '42

Adjustment of claims

Tidal wave damage held not covered by windstorm; Lilly-Tulip cup corporation. Nat Underw 46:5 F 5 '42

INSURANCE, Tourist baggage

Tourist baggage policy, a restricted form of personal effects insurance. F. C. Crowell, jr. Ins Field (Fire ed) 71:22-3 Mr 5 '42

INSURANCE, Turkeys

Through the field glasses. Ins Field (Fire ed) 70:21 N 20 '41

INSURANCE, Unearned premium. See Insurance—Unearned premium policies

INSURANCE, Unemployment

Ask cooperation from employers regarding unemployment insurance law. Comm & Fin Chr 156:1641 N 5 '42

Public utilities and unemployment compensation. E. P. Schmidt. J Land & Pub Util Econ 18:97-100 F '42

Social security for priorities unemployment. A. Epstein. Trusts & Estates 74:251-2 Mr '42

War and postwar social security protection for the wage earner. A. J. Altmeyer. Ann Am Acad 224:165-74 N '42

See also

Social security act, 1935

Finance

War fattens unemployment compensation funds. Business Week p22 Ja 10 '42

Statistics

Unemployment-compensation operations, October 1941. Monthly Labor R 54:104-8 Ja '42 [cont monthly]

Canada

Extension of unemployment insurance in Canada. Monthly Labor R 55:45-6 Jl '42

Great Britain

British unemployment-insurance fund in 1941. Monthly Labor R 55:240-3 Ag '42

British unemployment programs, 1920-1938. E. M. Burns. 385p $2.75 Committee on social security, Social science research council, Washington, D.C. '41

Increased British unemployment allowances. Monthly Labor R 55:744-5 O '42

Unemployment fund. Economist 142:599 My 2 '42

Missouri

Missouri unemployment compensation law as amended in 1941. 71p Unemployment compensation commission of Missouri, Jefferson City '41

New York (state)

Appeal board interprets unemployment law. Comm & Fin Chr 155:1851 My 14 '42

Decide accident solicitors are independent contractors and not under unemployment act. Weekly Underw 146:721 Mr 28 '42; Nat Underw 46:31 Mr 26 '42

Extension of unemployment insurance coverage and benefits recommended. W. Hodson. Comm & Fin Chr 156:1718 N 12 '42

Four specific recommendations by Governor Lehman regarding unemployment insurance; other recommendations. Weekly Underw 146:648 Mr 21 '42

Index of appeal board and court decisions under the law, article 18 (sections 500-539) Labor law, January 1, 1938 to March 31, 1941. 180 numb l Unemployment insurance appeal board, New York dept. of labor, Albany '41

Insurance benefits in partial unemployment. Comm & Fin Chr 156:1645 N 5 '42

Insurer wins important N.Y. case on status of agent. Nat Underw (Life ed) 46:9 Jl 24 '42

N.Y. state salesmen are under unemployment act. East Underw 43:6 S 25 '42

Ohio

Unemployment compensation in Ohio. W. J. Mackey. 548p $6.50 Atlas pub. co, 8 E. Long st, Columbus, Ohio '42

Oregon

Employer experience rating. W. L. Parker. 121p Unemployment compensation commission, Division of research and statistics, Salem, Ore. '40

Treatment of seasonal unemployment under the Oregon unemployment compensation law. L. M. Falkenhagen. 90p Unemployment compensation commission, Division of research and statistics, Salem, Ore. '41

South Carolina

South Carolina unemployment compensation law. 66p South Carolina unemployment compensation commission, Columbia '41

United States

President asks New England governors to submit views on employment security. Comm & Fin Chr 154:1471 D 11 '41

Unemployment-compensation operations, first half of 1942. Monthly Labor R 55:478-9 S '42

Unemployment-compensation operations, October 1941. Monthly Labor R 54:104-8 Ja '42 [cont monthly]

Unemployment compensation rights of workers employed in more than one state. I. C. Merriam and E. T. Bliss. 87p U.S. Social security board, Bur. of research and statistics, Washington; pa 30c Supt. of doc. '41

Virginia

Insurance agents held to be under unemployment-compensation act; the Supreme court of appeals of Virginia. Monthly Labor R 53:1222-3 N '41

INSURANCE, Use and occupancy

Business interruption. Spectator (Property ed) 7:22 D 25 '41

Business interruption insurance; how it protects war-time manufacturing. C. Snow. Credit & Fin Management 44:20-4 My '42

Defense work spotlights U. & O. W. O. Wilson. Nat Underw 46:31 Ja 29 '42

Exclude priorities losses under power plant U. & O. forms. Nat Underw 45:22 N 6 '41

Hazy thinking cause of most U. and O. arguments. W. S. Foster. Nat Underw 46:4 Ja 22 '42

Large U. & O. lines hard to assimilate. Nat Underw 46:4 N 5 '42

New England U. & O. changes set one year time limit for losses. East Underw 42:32 N 7 '41

Observers note exceptional opportunities for sale of use and occupancy cover. Weekly Underw 145:1111 N 8 '41

Others may want profits cover car dealers now seek. Nat Underw 46:6 F 19 '42

Present trends create still greater need for U.&O. cover. A. H. Bonstin. Nat Underw 45:35 N 13 '41

Priorities and U. & O. losses. F. A. Hughes. il East Underw 42:68 D 12 '41

Priorities causing bridge U.&O. shifts. Nat Underw 45:2 N 13 '41

Priorities the umpire in handling of boiler-machinery U. & O. J. E. Cummings. East Underw 42:35 D 19 '41

Raw stock shortage booms U. & O. sales. Nat Underw 46:3+ Ja 8 '42

Revise U. & O. forms on Coast. Nat Underw 46:3 Mr 19 '42

S.E.U.A. adopts U. & O. changes. Nat Underw 45:8 D 11 '41

U. & O. becoming hazardous but must be written. W. S. Ellis. Nat Underw 45:3+ D 4 '41

U. & O. developments reviewed. L. G. Wimmer and R. K. Hill. Nat Underw 46:23-4 Ja 1 '42

Use and occupancy insurance. W. A. Earls. Credit & Fin Management 44:11-12+ Ap '42; Abstract. East Underw 43:32 My 22 '42

U. & O. revisions cut number of forms, simplify handling; District of Columbia has adopted changes effective in New England. Nat Underw 45:5+ N 6 '41

War conditions provide test. G. M. Blum. Nat Underw 46:6+ F 12 '42

War time aspects of U. & O. sales and underwriting. H. C. Klein. Nat Underw 46:12 F 19 '42

What about your fire insurance? it should fit tempo of war production. T. V. Ponder. Credit & Fin Management 44:17-18+ F '42

Agents

Selling business interruption today. T. G. Linnell. Ins Field (Fire ed) 71:18-19 Ap 23 '42

Rates

General decides on rates for war U. & O. cover. Nat Underw 46:4 Jl 2 '42

INSURANCE, Use and occupancy—*Continued*

Taxation

Tax decision on valued U. & O. form brings furor. Nat Underw 46:4+ Ja 1 '42

Tuition fee coverage

Tuition fees insurance with suggestions on how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:24 Ja 22 '42

INSURANCE, Valuable papers

Casualty pool to write war damage on securities. Nat Underw 46:17 S 3 '42

Valuable papers policy now getting attention. Nat Underw 46:19 S 10 '42

INSURANCE, Vandalism. See Insurance, Fire—Policies—Extended coverage endorsements; Insurance, Riot and civil commotion—Vandalism coverage

INSURANCE, Volunteer war workers. See Insurance—Volunteer war workers coverage; Insurance, Liability—Volunteer war workers coverage

INSURANCE, War risk

Actual war-time hazards covered by capital stock fire insurers. F. G. Howard. Ins Field (Fire ed) 71:11-14 Jl 16 '42

Agents file proposals on war damage. Weekly Underw 146:761+ Ap 4 '42; East Underw 43:20+ Ap 3 '42; Nat Underw 46:5 Ap 2 '42

Agents hear proposals on war damage plan. Weekly Underw 146:713 Mr 28 '42

Air-raid payoff; fire insurance companies and government work out plan. Business Week p24+ Je 13 '42

Assails insurers for war damage stand. W. H. Bennett. Nat Underw 46:5 Mr 19 '42

Await details of federal war risk scheme. Nat Underw 45:3-4+ D 25 '41

Background on war damage. H. C. Conick. Ins Field (Chicago Conv Daily ed) 71:3+ S 23 '42

Bomb insurance; federal government takes over war risk underwriting. Business Week p51-2 D 20 '41

BDO lists 27 questions and answers for benefit of agents at national convention. Weekly Underw 147:727-8+ S 26 '42; Same. East Underw 43:22 S 25 '42; Same abr. Nat Underw 46:2+ S 24 '42; Same abr. Ins Field (Chicago Conv Daily ed) 71:16-18 S 24 '42

Catastrophe underwriting and war risk. J. J. Magrath. Weekly Underw 146:20+ Ja 3 '42

Competition with W.D.C. barred in some states. Ins Field (Fire ed) 71:7-8+ Jl 16 '42

Cooperative program for private insurers and government is asked; abstracts. J. W. Ryan. East Underw 43:1+ My 22 '42; Weekly Underw 146:1149+ My 23 '42

Current situation on war risk protection. W. Ellis. Nat Underw 46:21 Ja 15 '42

Effect of the war and war acts on various types of insurance. East Underw 43:27 Ja 16 '42

Exclusions affected by war; forum of the mid-year meeting of the National association of insurance agents. J. C. O'Connor. Nat Underw 46:17+ Ap 23 '42

Fire people should push war damage with vim. R. W. Carter. Nat Underw 46:3 S 24 '42

Firemen's of N.J. group write war damage. Ins Field (Fire ed) 71:7+ Mr 12 '42; Nat Underw 46:2+ Mr 12 '42

First loss occurs under bombardment cover in U.S. Nat Underw 46:6 Mr 5 '42

Gas and electric utilities report on war risk insurance practices. R. Fleming. Am Gas Assn Mo 24:187-9 My '42

General of Seattle applies for place in WDC setup. H. K. Dent. Nat Underw 46:3+ Je 18 '42

General of Seattle has new program of war risk coverage. Nat Underw 46:6 Ag 27 '42

General of Seattle is still writing war risk. Nat Underw 45:4+ D 25 '41

General of Seattle promulgates war cover. Ins Field (Fire ed) 71:13 Ja 29 '42

Glimpse of war damage setup; abstracts. H. Freeman. Nat Underw 46:3+ My 28 '42; Weekly Underw 146:1276 Je 6 '42

Government forms $100,000,000 war risk fund. Nat Underw 45:3+ D 18 '41

Government studying plans for handling war risk insurance. East Underw 43:1+ Mr 27 '42; Nat Underw 46:3+ Mr 26 '42

Government will handle all bomb damage insurance. East Underw 42:1+ D 19 '41

Hands-off policy on war coverages adopted; war and bombardment contracts of the Rhode Island and the General of Seattle. Ins Field (Fire ed) 71:9+ Jl 9 '42

Home offices well geared to handle WDC applications. Nat Underw 46:1+ Je 25 '42

Implores agents to intensify WDC sales effort. W. S. Ellis. Nat Underw 46:62+ S 24 '42

Industry should write war risk; abstracts. W. H. Bennett. East Underw 43:18 Mr 20 '42; Nat Underw 46:3+ Mr 26 '42

Insurance against war perils; government assistance provided. Barron's 22:7 Ja 5 '42; Abstract. Nat Underw 46:5+ Ja 8 '42

Insurance agents discuss war damage plans. Comm & Fin Chr 155:1634 Ap 23 '42

Insurance coverage in a war economy. J. G. Foster and others. 40p Am. management assn, New York '42

Insurance in wartime. il Spectator (Property ed) 7:10-14+ D 25 '41

Insurance industry will handle U.S. war cover. Nat Underw 46:1 Ap 23 '42

Insurers agree to accept some war liability. Nat Underw 46:6+ Ap 16 '42

Lange suggests companies form own company to write land war risk. G. Macdonald. Ins Field (Fire ed) 71:10 F 19 '42

Large property owners decide to get war cover. Nat Underw 46:1 Je 18 '42

Life companies should have war damage cover. J. M. Bryan. Nat Underw 46:3+ O 8 '42; Same. Nat Underw (Life ed) 46:3+ O 9 '42

Little war damage sold to farmers outside coast area. Nat Underw 46:3 S 17 '42

Loss adjusting plan arranged for WDC policies. Nat Underw 46:3-4 Ag 13 '42

Loyalty group to write war risk and bombardment; rates and rules. Weekly Underw 146:595+ Mr 14 '42

Many war damage queries must await ruling from Washington. East Underw 43:14+ Jl 3 '42

Marine and land war risk covers analyzed. W. M. Sheldon; E. D. Lawson. Nat Underw 46:4+ Mr 19 '42

Market closing for war risk cover on land. Nat Underw 45:4+ D 11 '41

National association of insurance agents war damage insurance forum. East Underw 43:20-1+ S 25 '42; Nat Underw 46:21+, 34 S 24 '42; Weekly Underw 147:722+ S 26 '42

New proposed war cover rate plan. Nat Underw 46:4 Ap 30 '42

N.Y. state big war damage buyer. Nat Underw 46:16A O 1 '42; East Underw 43:40 S 25 '42

No war damage insurance on property of the U.S. government. East Underw 43:20 Jl 17 '42

Permission to use war binders gave relief; many questions being answered. Nat Underw 46:1+ Jl 2 '42

Pink named liaison man on war problems. Nat Underw 46:3 F 19 '42; Same. Nat Underw (Life ed) 46:1 F 20 '42

Pink reports on war risk venture; premiums collected by Rhode Island. Nat Underw 46:1+ O 8 '42; East Underw 43:31 O 9 '42; Weekly Underw 147:853-4 O 10 '42

Preparing war damage cover great task; company statements for first half. F. L. Brokaw. Weekly Underw 147:118 Jl 18 '42

President of General companies tells why his company is writing war risk coverage. H. K. Dent. Ins Field (Fire ed) 71:29 Mr 12 '42

Producers report widespread call for war damage coverage. East Underw 43:1+ Je 26 '42

RFC bomb shelter; to insure war risks. Business Week p37-8 F 7 '42

INSURANCE, War risk—*Continued*

Report mortgagors buying war damage. East Underw 43:20 Jl 24 '42

Rhode Island continues to sell war cover. Nat Underw 46:11+ Jl 9 '42

Roundup of war and its impact on insurance. Nat Underw 45:3+ D 18 '41

Rule private carriers can't write war risk in Kentucky. Weekly Underw 147:10 Jl 4 '42

Rules out tax for war risk premiums. F. Biddle. Nat Underw 46:1 Ja 15 '42

Sale of war cover continues at lively pace. Nat Underw 46:1+ Jl 16 '42

Seek to relieve WDC of flood of inquiries. Nat Underw 46:1+ Jl 9 '42

Some features brought out in war damage insurance; agents find interesting situations. Nat Underw 46:3-4 Jl 2 '42

Splendid example of how government can co-operate with free enterprise in prosecuting the war. Ins Field (Fire ed) 71:21 Jl 23 '42

Stock carriers out handling WD cover in South Carolina. Weekly Underw 147:167 Jl 25 '42

Text of insurance policy issued by War damage corporation. East Underw 43:29-30 Je 26 '42

Two Hartfords advertise W. D. C. coverage. Ins Field (Fire ed) 71:10 O 15 '42

Urges strong campaign to foster war damage selling; talk before Insurance advertising club. H. C. Conick. East Underw 43:1+ S 18 '42

Voices fear that agents are being ignored by companies for part in war risk handling; abstracts. W. Bennett. Ins Field (Fire ed) 71:10 Mr 5 '42; Nat Underw 46:21 Mr 5 '42

War and its immediate effect upon insurance. Nat Underw 45:3+ D 11 '41; Same. Nat Underw (Life ed) 45:3+ D 12 '41

War damage and exclusion clause. R. M. Morrison. Nat Underw 46:2+ My 14 '42

War damage and insurance. T. N. Sandifer. Pub Util 29:409-17 Mr 26 '42

War damage and the producer. H. F. Badger. il (cover) Ins Field (Fire ed) 71:16-17 S 3 '42

WDC business still continues after month. Nat Underw 46:3+ Ag 6 '42

W.D.C. coverage, topic at meeting of N.A.I.C. executive body. Ins Field (Fire ed) 71:7-8+ S 24 '42; Weekly Underw 147:597+ S 19 '42

War damage corporation insurance question and answer forum. B. G. Werbel. Weekly Underw 147:214+ Ag 1 '42

WDC interprets points commissioners raise. Nat Underw 46:1+ S 24 '42; Ins Field (Chicago Conv Daily ed) 71:1+ S 23 '42

WDC money cover on way; praises work of insurance men; abstracts. J. W. Close. Nat Underw 46:1+ O 22 '42; East Underw 43:20 O 16 '42

War damage corporation policy. D. A. Ticktin. East Underw 43:25+ O 9; 22+ O 16; 18+ O 23; 18+ O 30; 30+ N 6; 18+ N 13; 22+ N 20; 16+ N 27 '42

War damage cover for life companies explained. H. C. Conick. Nat Underw (Life ed) 46:8 Jl 17 '42

War damage cover plans approved. Nat Underw 46:1, 10-11, 37-8 Je 4 '42; East Underw 43:1+ Je 5 '42; Ins Field (Fire ed) 71:7-8+ Je 4 '42; Weekly Underw 146:1261+ Je 6 '42

War damage insurance. Spectator (Property ed) 7:28-9 Je 25 '42

War damage insurance. H. Bratter. Banking 35:9+ Jl '42

War damage insurance. H. M. Bratter. Banking 35:128+ S '42

War damage insurance goes into effect on July 1. Comm & Fin Chr 155:2386 Je 25 '42

War damage insurance; government provides insurance protection. A. W. Nelson. il Credit & Fin Management 44:13-15+ Jl '42; Abstract. Management R 31:249-50 Jl '42

War damage insurance; opportunity for public service. W. E. Roesch. il Spectator (Property ed) 8:10-14+ Ag 20 '42; Abstract. Management R 31:321-2 S '42

War damage lines may aggregate 75 to 100 billion. Nat Underw 46:1+ Jl 23 '42

War damage provisions summarized. J. J. Magrath. Weekly Underw 146:828 Ap 11 '42

War damage risks written may amount to $30,000,000,000. East Underw 43:1+ Jl 10 '42

War damage sale continues at steady pace. Nat Underw 46:2+ Jl 30 '42

War damage setup American way of doing job. C. Smith. Nat Underw 46:2+ Je 25 '42

War damage threat to private cover. E. W. Sawyer. Weekly Underw 147:441+ Ag 29 '42

War insurance in the British Isles. W. Hill. il Spectator (Property ed) 7:10-18, 26+ Je 11 '42; Same. Spectator (Life ed) 148:10-15, 28-9+ Je 18 '42

War insurance plans in England, the United States and China. I. Bussing. Trusts & Estates 74:25-7 Ja '42

War risk and bombardment. Spectator (Property ed) 7:26 Ap 2 '42

War risk fire insurance problems studied at American bar association meeting; abstracts. J. S. Foster. East Underw 43:15 Ag 28 '42; Weekly Underw 147:444-6 Ag 29 '42

War risk insurance for bank funds soon. Comm & Fin Chr 156:188 Jl 16 '42

War risk insurance on coffee shipments. For Comm W 8:21 Jl 25 '42

War risk responsibility is seen as obligation of the government. Spectator (Property ed) 7:25 D 25 '41

War-risk rush. Business Week p79 Jl 4 '42

War risker; Rhode Island insurance co. Business Week p99-101 O 17 '42

War risks discontinued by Lloyd's non-marine. Weekly Underw 145:1392 D 20 '41

See also

Insurance—Air raid risks

Insurance, Military and naval service

War damage corporation

also subdivision War risks under kinds of insurance, e.g. Insurance, Accident—War risks

Coverage

Armed allied plane loss seen as only gap. H. C. Conick. Nat Underw 46:4 N 5 '42

Ask companies to cover gap in war protection. Nat Underw 46:1+ Je 18 '42; East Underw 43:1+ Jl 17 '42

California agents want policy stated on indirect war loss. Nat Underw 46:17+ Ja 8 '42

Furriers may now buy war cover on customers garments. Nat Underw 46:3 S 24 '42

Suggestions made to remove all gaps in war damage coverage. East Underw 43:1+ N 6 '42; Nat Underw 46:1+ N 5 '42; Weekly Underw 147:1049+ N 7 '42

WDC approves cover for securities and currency. Weekly Underw 147:441+ Ag 29 '42

WDC says blackout exclusion does not apply during attack by enemy. East Underw 43:16 S 11 '42

War damage corporation to offer banks four types of insurance all within one policy. Comm & Fin Chr 156:1550 O 29 '42

War damage cover on securities and money authorized. Nat Underw 46:1+ O 1 '42

War damage insurance, money and securities. Spectator (Property ed) 8:24 O 15 '42

War risks on money and securities. J. E. Baum. Banking 35:78 O '42

Watch Ohio bomber crash for test of fire—WDC cover. Nat Underw 46:8 S 10 '42

What is war damage gap? see danger in quibbling. Nat Underw 46:1+ Jl 23 '42

Laws and regulations

Enact measure to increase power of RFC and provide war damage insurance; text of act. Comm & Fin Chr 155:1546 Ap 16 '42

Government announces war cover rules. Weekly Underw 146:1385+ Je 20 '42

House amends U.S. war risk bill to exclude free cover. Nat Underw 46:3+ F 12; 3 Mr 5 '42

House committee kills free war damage insurance; House action on bill. East Underw 43:18 F 13; 18 F 27; 30 Mr 6 '42

INSURANCE, War risk—Laws and regulations —*Continued*

President signs bill increasing RFC power and providing for war damage insurance. Comm & Fin Chr 155:1342 Ap 2 '42

War damage corporation issues memorandum no. 2 to the companies. East Underw 43:19+ Jl 10 '42

War damage insurance, amendment to regulations A. Spectator (Property ed) 8:23 Jl 23 '42

War damage insurance; memoranda nos. 12 and 13. Spectator (Property ed) 8:25 O 15 '42

War damage insurance; memorandum no. 9. Spectator (Property ed) 8:23 O 1 '42

War damage insurance; memorandum nos. 1 and 2. Spectator (Property ed) 8:26 Jl 9 '42

War damage memos 3-4. Weekly Underw 147:169+ Jl 25 '42; Same. Spectator (Property ed) 8:22 Jl 23 '42

War damage memos 5-6. Weekly Underw 147:213+ Ag 1 '42; Same abr. Spectator (Property ed) 8:22 Ag 6 '42

Australia

Australian war insurance plan being started. Spectator (Property ed) 7:36 Mr 19 '42

Australian war insurance regulations. East Underw 43:34 Ap 17 '42; Trusts & Estates 74:370 Ap '42

Canada

Blackouts not warlike action, it is believed. East Underw 43:41 Ja 30 '42

Canada war coverage widely purchased by small risk owners. East Underw 43:1+ O 2 '42

Canadian war damage set-up announced. Weekly Underw 147:399+ Ag 22 '42

Canadian war damage supervisor talks on rates, underwriting rules. J. Matson. East Underw 43:27 O 16 '42

Canadian war risk rates announced. East Underw 43:16 S 4 '42; Nat Underw 46:6 S 3 '42

Insurance people to aid war risk work in Canada. Nat Underw 46:4 Ap 9 '42; Same. East Underw 43:18 Ap 10 '42

Program for Canadian war risk. T. D. Leonard. East Underw 43:16-17 My 8 '42

Underwriting, commission and loss details of Canadian war coverage. East Underw 43:19 S 11 '42; Nat Underw 46:2+ S 10 '42

War risk bill in Canadian Commons. East Underw 43:21 Ap 3 '42; Nat Underw 46:5 Ap 2 '42

Germany

Condition of German insurance business. Weekly Underw 145:1269+ D 6 '41

Great Britain

British government guarantees colonial war risk insurance funds. Weekly Underw 145:1138 N 15 '41

British war damage amendment extends risk period indefinitely. East Underw 43:22 Je 19 '42

British war damage claims were over 593,000 to Sept. 1. A. M. T. Eve. East Underw 43:1+ O 16 '42

Contributions and compensation; War damage act. Economist 142:823 Je 13 '42

Export risk insurance; a survey of existing facilities. Elec R (Lond) 130:610 My 8 '42

How British government is meeting war insurance problems. J. G. Foster. East Underw 42:60+ D 12; 30 D 19 '41

Insurance in Great Britain doing a "frontline" job. W. Hill. il Spectator (Property ed) 8:10-15+ O 15 '42

London financial news records criticism against operation of British war damage act. Ins Field (Fire ed) 71:11 F 5 '42

Observations as to war's effect on British insurance results. F. S. Perryman. East Underw 43:30 Ja 2 '42

War and insurance in Britain. J. D. Dorsett. Ins Field (Fire ed) 71:18-19+ Ap 2 '42

War damage. Economist 142:760 My 30 '42

War damage act, 1941. H. Samuels, ed. 259p 10s 6d Pitman '41

War damage act, 1941; an explanatory guide. C. H. S. Stephenson and E. C. Spencer. 52p pa 35c Nelson (Toronto) '41

War damage act, 1941, and the War risks insurance act, 1939, part II (Commodity insurance scheme). G. G. Slack, ed. 446p, supp 24p 15s Butterworth & co, London '41

War damage anomalies. Economist 142:44-5 Ja 10 '42

War damage; some features of the new amendment act. F. E. Sugden. Elec R (Lond) 131:309-10 S 4 '42

War insurance in the British Isles. W. Hill. il Spectator (Property ed) 7:10-18, 26+ Je 11 '42; Same. Spectator (Life ed) 148:10-15, 28-9+ Je 18 '42

India

Compulsory war-risk insurance of factories; government of India ordinance. For Comm W 7:18 Je 6 '42

Indian war risks (goods) insurance ordinance. Weekly Underw 145:1450 D 27 '41

INSURANCE, Warehousemen's liability

New York court holds warehouse insurer liable for water damage. East Underw 43:30 Ap 3 '42

INSURANCE, Water damage

Must supply water damage insurance; demand by federal authorities. Nat Underw 46:2 O 29 '42

New airport rider; closes water damage-WD gap. Weekly Underw 147:863 O 10 '42

INSURANCE, Weather. See Insurance, Hail; Insurance, Tornado; Insurance, Rain

INSURANCE, Wheat

Farmers may defer wheat crop insurance payments. Comm & Fin Chr 155:2044 My 28 '42; Ins Field (Fire ed) 71:9 Je 4 '42

Losses heavy on U.S. crop cover. Nat Underw 46:1+ Ja 15 '42

Record wheat insurance. Comm & Fin Chr 155:1253 Mr 26 '42

Reduced cost plan for insured wheat growers. Comm & Fin Chr 156:118 Jl 9 '42; Same. East Underw 43:26 Jl 10 '42

Wheat field fires are numerous this season. Nat Underw 46:4 S 10 '42

INSURANCE, Windstorm. See Insurance, Tornado

INSURANCE, Workmen's compensation

Compensation insurance in war time; duties of the insurance advisor under the war projects plan. R. A. Braddock. Ins Field (Fire ed) 71:20-1+ O 15 '42

Eye problems of compensation of island workers; victims of Japanese attack on Guam, Midway and other Pacific isles. Nat Underw 46:19 F 12 '42

Jap prisoners may receive workmen's compensation. Nat Underw 46:17 Ja 22 '42

Low loss ratio on defense projects is surprising. Nat Underw 46:20 Ja 22 '42

Maryland Casualty has voluntary payroll audit plan; also permitting use of renewal certificates. Nat Underw 46:21 O 1 '42

Medical care plan expected to cut compensation claims. Nat Underw 46:19+ O 8 '42

Turn in loss ratio in compensation is possibility; report to commissioners; abstracts. C. W. Hobbs. Nat Underw 46:19+ Je 11 '42; East Underw 43:32-3 Je 12 '42; Spectator (Property ed) 7:11 Je 25 '42

Watch effect of women workers on experience. J. P. Keevers. Nat Underw 46:26 My 28 '42

Wider coverage urged for men in defense industries. J. C. Paul. Nat Underw 46:26 Ja 15 '42

Workmen's compensation and the physician, a manual for the use of general practitioners and insurance carriers. H. H. Jordan. 180p bibliog(p173-4) $3 Oxford '41

See also National council on compensation insurance

Adjustment of claims

Death from heart disease while performing usual heavy labor held not accidental within meaning of Pennsylvania compensation act. Weekly Underw 147:837 O 3 '42

INSURANCE, Workmen's compensation—Adjustment of claims—*Continued*

Death from natural cause overtaking employee at work held not accidental though hastened by work. Weekly Underw 146:302 Ja 31 '42
Evaluation of disability. P. B. Magnuson. Ind Med 11:133 Mr '42
Exposure to silicosis hazard doesn't necessarily mean liability, Illinois court finds. Nat Underw 46:24-5 Je 18 '42
Injury to workman employed without license required by city ordinance held not covered by compensation law. Weekly Underw 145:1257 N 29 '41
Lead poisoning resulting from inhalation of vaporized lead paint discharged by spray gun held accidental injury. Weekly Underw 145:1165 N 15 '41
Minnesota high court upholds death award; arrangement agreed by company and assured. Weekly Underw 147:565 S 12 '42
Presumption against suicide does not of itself justify compensation award. Nat Underw 46:16 Ja 1 '42
Presumption of validity of subsequent ceremonial marriage held superior to presumption that prior marriage continues in force. Weekly Underw 146:1310 Je 6 '42
Rule on disablement; Kentucky ruling on injury combined with previous one. Weekly Underw 145:1271 D 6 '41
Status of medicolegal testimony. R. T. Johnstone. Ind Med 11:104-6 Mr '42
University athlete awarded workmen's compensation. Nat Underw 46:36 Mr 12 '42
Wife held conclusively presumed dependent upon husband despite filing of action for divorce. F. S. Knight. Weekly Underw 146:1091 My 9 '42

Agents

Commissions

Casualty agents oppose proposed retrospective plan. Nat Underw 46:67+ S 24 '42
Proportionate contribution held to be fallacy by company spokesman; graded commission plan offered by casualty general agent. East Underw 43:25+ Jl 31 '42

Cost

Compensation insurance costs, an important factor. Oil & Gas J 41:43 Jl 23 '42
Proportionate contribution held to be fallacy by company spokesman. East Underw 43:25+ Jl 31 '42

Finance

Compensation experience, companies operating in New York state 1941, and totals 1932-1941. Nat Underw 46:20 Je 4 '42
Development of compensation incurred losses, policy years, 1937-1940; tabulation. Spectator (Property ed) 8:16 S 17 '42
1941 compension experience; tabulation. Nat Underw 46:33-4 Ap 2 '42
Schedule P results; loss experience by companies operating in New York, 1936-1941; tabulation. Nat Underw 46:41 Mr 5 '42
Underwriting results of workmen's compensation business during 1941; tabulation. Spectator (Property ed) 8:30 Ag 20 '42

Fraudulent claims

Compensation fraud of $630,000 charged in the city of New York. Weekly Underw 147:973 O 24 '42

Industrial diseases

Occupational disease legislation requires study. J. D. Dorsett. Nat Underw 45:23+ N 20 '41

Lapses and surrenders

Coverage holds even if insurance is lapsed. Weekly Underw 147:1078 N 7 '42

Rates

Compensation probe in California. Nat Underw 45:22 N 20 '41
Henry D. Sayer makes annual compensation report. East Underw 43:33 Ja 30 '42
Illinois department probes compensation practices. Nat Underw 46:28 Mr 5 '42
Interstate rating presents big problem. L. H. Pink. Weekly Underw 146:336 F 7 '42
N.Y. compensation rate increases 5.9% July 1. H. D. Sayer. Nat Underw 46:28 Je 4 '42
Overtime payroll can't be excluded; Minnesota bureau gives reasons. Nat Underw 46:18 O 8 '42
Probe compensation rates in California. Nat Underw 46:13 Jl 30 '42
Rating of interstate risks is troublesome. L. H. Pink. Nat Underw 46:20, 33; Discussion. 26 Je 11 '42
Texas holds hearings on expense reduction. Ins Field (Fire ed) 71:4+ O 22 '42

Retrospective plan

Many surprises in new retrospective plans in Pennsylvania, Delaware. Nat Underw 45:19+ D 18 '41
Premium return plan up in Utah. Nat Underw 46:21 O 22 '42
Propose new high-low plan. Nat Underw 46:19 Je 11; 19+ Je 18 '42
Rating bodies studying retrospective rate program for interstate risks. W. Leslie. East Underw 43:28 Je 19 '42
Submits plan of retrospective rating for interstate compensation risks. C. W. Hobbs. East Underw 43:32-3 Je 12 '42

Renewal certificates

National council allows use of renewal certificates. East Underw 43:30 Je 19 '42
Renewal certificate plan in New York. H. D. Sayer. East Underw 43:27 Ag 7 '42
Workmen's compensation renewal certificates are approved in Missouri. Nat Underw 46:20 S 17 '42

War risks

Air views on providing war injury benefits. W. Leslie. Nat Underw 46:17+ Jl 9 '42
Civilian war casualties to be covered under Pepper bill in Congress. East Underw 43:32 F 13; 33+ F 20 '42; Nat Underw 46:19 F 12 '42
Eye compensation claims resulting from war acts. Nat Underw 46:13 Ja 1 '42
Foreign war risk assumed by U.S. Nat Underw 46:19 F 19 '42

California

California compensation hearings to improve conditions. East Underw 43:29 Jl 31 '42; Nat Underw 46:14 Jl 30 '42
Commissioner discusses state fund at hearings. G. Macdonald. Ins Field (Fire ed) 71:14+ Jl 30 '42
Compensation probe. Nat Underw 45:22 N 20 '41
Surplus participation ruling in California. Weekly Underw 147:1052 N 7 '42; Nat Underw 46:22 O 22 '42

Egypt

Insurance against labor accidents made compulsory in Egypt. For Comm W 9:17 O 24 '42

Great Britain

Mutual insurance association. Economist 142:297 F 28 '42
Raise benefits in Britain. East Underw 42:46 N 7 '41

Massachusetts

Claim over 5,000 fraudulent names on Massachusetts petitions. Nat Underw 46:22 Ap 16 '42
Court to rule upon Massachusetts vote. Weekly Underw 147:182 Jl 25 '42
Gird for fight on state fund in Massachusetts. W. C. Hill. Nat Underw 46:21+ Mr 26 '42
Referendum petition found to be invalid. Weekly Underw 147:329 Ag 15 '42
Refers referendum case to ballot commission. East Underw 43:31 Ap 10 '42
Rules petition out of Massachusetts ballot. East Underw 43:30 Je 19 '42
Testimony ends before Ballot law commission. East Underw 43:29 My 15 '42

INSURANCE, Workmen's compensation—*Cont.*

Michigan

Michigan governor assails compensation law. Nat Underw 46:30 Mr 26 '42

Michigan will revise accident report form. East Underw 43:42 Mr 13 '42

State fund agitation crops up at hearing on compensation laws. Nat Underw 46:23 My 14 '42

Minnesota

Interprets decision to include farm coverage. N. H. Debel. Weekly Underw 146:841 Ap 11 '42

New York (state)

Summarizes N.Y. compensation changes. H. D. Sayer. East Underw 43:38 Je 12 '42

Pennsylvania

Compensation issue in Pennsylvania, gubernatorial contest. Spectator (Property ed) 8:9 O 29 '42

United States

Defense program's effect on compensation insurance. W. F. Roeber. East Underw 42:102 D 12 '41

INSURANCE, Yacht. See Insurance, Motor boat

INSURANCE actuaries

Calls 6-year actuarial exam study sufficient. R. A. Hohaus. East Underw 43:12 Jl 10 '42

Educational panel for actuarial students. East Underw 43:8 Je 12 '42

Sheppard Homans; a biographical sketch. R. W. Sheehan. Spectator (Life ed) 149: 12-14, 42 Ag '42

Some fundamental trends. H. H. Jackson. East Underw 42:3+ N 7 '41; Excerpts. Weekly Underw 145:1061+ N 8 '41

Some ideas of actuaries given for fieldmen. W. F. Poorman and others. East Underw 43:56, 58+ pt 2 O 9 '42

See also

Actuarial society of America

American institute of actuaries

Casualty actuarial society

INSURANCE adjusters. See Insurance—Adjustment of claims

INSURANCE advertising conference

Annual meeting, New York, Sept. 14-15. East Underw 43:24+ S 18 '42; Ins Field (Fire ed) 71:7, 28-9 S 17 '42; Nat Underw 46:1+ S 17 '42; Spectator (Property ed) 8:40-2 S 17 '42; Weekly Underw 147:660+ S 19 '42

Meeting, New York, Dec. 4. East Underw 42:28 D 5 '41; Spectator (Property ed) 7: 12-14 D 11 '41; Ins Field (Fire ed) 70:10-11 D 11 '41

War-time problems discussed at spring meeting. Spectator (Property ed) 7:18+ Ap 2 '42; Weekly Underw 146:705+ Mr 28 '42; East Underw 43:31 Mr 27 '42; Nat Underw 46:21+ Mr 26 '42

INSURANCE advisers

Compensation insurance in war time; duties of the insurance advisor under the war projects plan. R. A. Braddock. Ins Field (Fire ed) 71:20-1+ O 15 '42

Court dismisses last of Siegel suits against Metropolitan. East Underw 43:1+ O 2 '42

Explains recent cut in advisors' fees; abstracts. R. F. Hill. Ins Field (Chicago Conv Daily ed) 71:1+ S 23 '42; East Underw 43: 24+ S 25 '42

Insurance men serving as advisers to the U. S. War department. East Underw 42: 70+ D 12 '41

Morris Siegel is released from jail. Nat Underw (Life ed) 46:3 Ap 17 '42

Morris Siegel loses move to recover $400 fine. Nat Underw (Life ed) 46:12 My 15 '42

New standardized insurance adviser's agreement. D. Porter. Ins Field (Fire ed) 71: 9-10 S 17 '42

New York dept. report on counselors; typical broadcasting statements, and comments by Examiner Stern. East Underw 43:4+ Ja 30 '42

Official order revising insurance advisor's fees. East Underw 43:44 S 25 '42; Ins Field (Fire ed) 71:11-12 O 1 '42

Opposed to counselor-fee program; extension of War department's plan would be harmful. F. A. Moreton. East Underw 43: 35 My 29 '42

Pink exposes life counselor's practices; examination report on Donald Besdine, inc. Weekly Underw 146:217+ Ja 24 '42

Producers jolted by proposed slash in insurance advisor's fees on war jobs. East Underw 43:24+ S 11 '42

Revised scale of advisers' fees of War department; navy adopts same scale. Nat Underw 46:17 O 8 '42

Siegel ex-employe organizes insured at $2 a head; Society of American policyowners. Nat Underw (Life ed) 46:3+ Mr 13 '42

Siegel libel case won by Metropolitan Life on swindle issue. East Underw 43:1+ Mr 6 '42; Weekly Underw 146:517+ Mr 7 '42

Siegels lose damage suit on name calling. Nat Underw (Life ed) 46:5+ Mr 6; 1+ Mr 13 '42

Suit against Siegel reveals profits in counsellor field. Nat Underw (Life ed) 45:3 D 26 '41

INSURANCE agents

A. C. Edwards a producer who plays vital role in life of his community. East Underw 43: 22+ My 1 '42

Agent has obligation to assured to determine companies' soundness. R. P. Stockham. Nat Underw 45:33 D 11 '41

Agent in a war-time economy. H. P. North. Ins Field (Fire ed) 71:19 My 7 '42

Agent is New Mexico's only representative in Congress. J. S. Daniel. East Underw 42: 63 D 12 '41

Agent urged to watch credits. Nat Underw 46:21+ Ap 9 '42

Agents can beat war problems. H. P. North. Weekly Underw 146:645+ Mr 21 '42

Agents encourage wartime advertising; questionnaire discloses increased readership and use of material. W. C. Rhoades. Weekly Underw 146:646-7 Mr 21 '42; Same. East Underw 43:27 Mr 20 '42; Same. Nat Underw 46:5+ Mr 19 '42; Same. Spectator (Property ed) 7:24+ Ap 2 '42

Agents must be ready for changes. W. S. Keese, jr. Weekly Underw 146:1154+ My 23 '42

Atlanta firm of Haas and Dodd celebrating golden anniversary in insurance. M. R. McGruder. Weekly Underw 145:1191 N 22 '41

Auto premium loss should be sales spur. F. Potter. Nat Underw 46:19 N 5 '42

Chat with John Jay Elmendorf Rothery, veteran Boston underwriter. R. Rhodes. por Weekly Underw 147:170-1 Jl 25 '42

Cobb & Stebbins, Denver firm, dates from 1864. East Underw 42:66 D 12 '41

Cobb & Stebbins, Denver general agency, pioneered insurance in mountain field. Ins Field (Fire ed) 70:19+ D 18 '41

Conservation plan is recommended; West Virginia seeks to protect one-arm agencies. Nat Underw 46:20 Ap 2 '42; Same. Nat Underw (Life ed) 46:8 Ap 3 '42

Department store methods are urged. F. W. Potter. Nat Underw 46:13-14 O 29 '42

Des Moines agents for conservation of business of agents in armed services. Ins Field (Fire ed) 71:10-11 Ap 2 '42; Nat Underw 46:4 Ap 2 '42

E. S. Root achieves success in village of 700. East Underw 43:13 Ja 2 '42

FIA consolidation explained to agents; abstracts. C. W. Pierce. Weekly Underw 147: 1005+ O 31 '42; Nat Underw 46:1+ O 29 '42

Fire and allied lines; guide for local agent's 1942 sales efforts. W. J. Traynor. Ins Field (Fire ed) 70:18-19 D 25 '41

First NAIA official speech; stresses importance of unity. F. A. Moreton. Weekly Underw 147:858+ O 10 '42

Getting today's job done; sales experiences and management aids. J. T. Talton; C. W. Hubbard; G. Dyson. Ins Field (Fire ed) 71:24 Ja 15 '42

INSURANCE agents—*Continued*

Glens Falls forty years with the Schlesinger-Heller agency of Newark. East Underw 43:22 Jl 24 '42

How agents can meet war time production problems. M. W. Mays. East Underw 43:28 Ja 30 '42

How to use the telephone. W. Patton. Ins Field (Fire ed) 71:18 S 3 '42

If I were an agent. E. W. Sawyer. Weekly Underw 145:1082+ N 8 '41; Abstract. East Underw 42:39+ N 7 '41

Insurance men must be quick to act on federal legislation. T. Watters, jr. East Underw 42:1+ N 14 '41

Insuring your business; tests for you and your agent. F. C. Crowell, jr. Barron's 22:7 Ag 24 '42

J. E. Boyce at age 83 doing fine sales job for Travelers in Arkansas. East Underw 43:26 Ag 28 '42

Kaler, Carney, Liffler agency celebrates fiftieth anniversary. S. Welton. East Underw 43:30 Ap 10 '42

Master craftsmen. R. W. Forshay. Ins Field (Fire ed) 71:12+ O 15 '42

Offsetting slump in auto premiums; agency operating forum, National association of insurance agents. Nat Underw 46:5+ O 1 '42

One of the most fortunate business men in the world. East Underw 43:44 Mr 13 '42; Nat Underw 46:27 Mr 12 '42

Opportunities for service and increased sales; California association of insurance agents meetings. Nat Underw 46:29 F 19 '42

Organized selling pays dividends. F. W. Westervelt, jr. Ins Field (Fire ed) 70:24-5+ D 18 '41

Outlines practical plans for handling business of agents entering service. E. R. Ledbetter. Nat Underw 46:8 My 28 '42

Pointers for local agents. Published in weekly numbers of National underwriter

Points on production of bonds that will assist producers of those lines. R. E. Brown. Weekly Underw 145:1454+ D 27 '41

Prepare for mobilization day, agents advised. L. H. Jones. Nat Underw 46:3+ O 15 '42

Reserves for taxes stressed; effect of war on activities of producers. W. R. Thomas. Weekly Underw 146:1404+ Je 20 '42

Sales psychology in wartime. M. L. Lane. East Underw 43:24+ pt 2 My 15 '42

Scout the other team; learn plays of direct writers for effective competitive results. E. S. Oppenheimer. Ins Field (Fire ed) 70:22-3 N 6 '41

Seven point challenge to production field. R. E. Brown. East Underw 42:32 N 21 '41

Southern agents hit by loss of loan agency covers. Nat Underw 46:8 Ja 22 '42

Successful selling. Published in weekly numbers of Insurance field (Fire-casualty edition)

Through both ends of the telescope—production opportunities of brokers and agents. A. W. Spaulding. Weekly Underw 147:976-7+ O 24 '42; Abstracts. East Underw 43:31+ O 23 '42; Nat Underw 46:16 O 22 '42

War and your insurance agent, timely ad theme of two Hartfords. East Underw 43:41 O 9 '42

War's effect on agents; abstracts. H. I. Callis. Weekly Underw 147:447+ Ag 29 '42; Nat Underw 46:2+ Ag 27 '42

What's ahead in casualty; points to greatly increased volume. W. T. Harper. East Underw 43:40 N 6 '42

See also
Insurance as profession
Insurance associations
Insurance brokers

also subdivision Agents under various forms of insurance, e.g. Insurance, Automobile—Agents

also American association of insurance general agents; National association of insurance agents

Advertising

Action against Mellors by Philadelphia bar association. Weekly Underw 146:806 Ap 4 '42

Booklet of I.A.C. tells how successful agencies advertise. East Underw 43:18 Je 19 '42

How successful agencies advertise; booklet receives wide distribution. East Underw 43:24 S 4 '42

Successful local agency advertising plans. P. H. Hawes. Nat Underw 45:33 D 11 '41

Agency management

Agency management course of Connecticut agents' association. East Underw 43:24 Ap 24 '42

Agency management tightens its belt. B. D. Cole. Ins Field (Fire ed) 71:20-1 Mr 5 '42

Agents need to watch credit situation today. Nat Underw 46:10 Mr 26 '42

How to operate an agency profitably in war time. O. Beling. Nat Underw 46:35 My 21 '42

Suggestions on war time agency operation. B. A. Jochen. Nat Underw 46:34 Je 11 '42

Agency system

Agency in insurance. Economist 143:242-3 Ag 22 '42

Calls for ampler key to profit motive; weaknesses in the American agency system. R. Kenney. East Underw 42:37 N 7 '41

Challenge to American agency system. W. R. Thomas. Ins Field (Fire ed) 71:19-20 Ag 20 '42; Abstracts. Nat Underw 46:2+ Ag 20 '42; East Underw 43:1+ Ag 21 '42

General agency system geared to cushion demands of war on insurance personnel. B. McGehean. Ins Field (Fire ed) 71:17 Ja 22 '42

General agency system meeting challenge thrust upon insurance by a war-time economy. B. McGehean. Ins Field (Fire ed) 71:15+ O 22 '42

Graded licenses for agents; improving agency standards. H. H. Corson. Ins Field (Fire ed) 71:20 O 1 '42; Reply. J. M. McCormack. 71:22-3 O 22 '42

How to translate tire and gasoline rationing to the agent's advantage. D. Kelleher. Ins Field (Fire ed) 71:16-17 Jl 2 '42

Problems confronting producers. W. R. Thomas. Weekly Underw 147:664+ S 19 '42

Sees determination to stop further inroads on agency system. W. H. Bennett. East Underw 43:20 S 18 '42

Warns agents' days may be numbered. R. Kenney. Ins Field (Fire ed) 71:10+ O 22 '42

Automobile problem

Effect of gas rationing on insurance men. R. E. Richman. Nat Underw 46:10 My 28 '42

Gas rationing in its general effect on insurance men. Nat Underw 46:19 O 1 '42; Same. Nat Underw (Life ed) 46:4+ O 2 '42

Tire rationing will cause insurance problems. Nat Underw 46:4+ Ja 1 '42

Collecting of premiums

See Insurance—Premiums, Payment of

Commissions

Agents oppose change in countersignature agreement at present. L. W. Garlichs. East Underw 42:1+ N 7 '41

Agents view graded costs. Nat Underw 46:4 O 1 '42

Agree to comply with Texas expense stabilization plan. Nat Underw 46:4+ Je 25 '42

Applecart upset in Texas stabilization move; domestic companies renounce agreements on commissions. Nat Underw 46:1 Jl 30 '42

Expense limitation program now in effect in Texas. Nat Underw 46:1 Jl 9 '42

For agency cost formula based on over-all agency operations. Nat Underw 46:2 O 22 '42

Put squeeze on expense elements; Texas requires insurers' affidavit on commissions. Nat Underw 46:2+ Je 4 '42

Splitting insurance commissions; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:30-1 Ap 2 '42

Texas Board bulletins companies on commissions. Ins Field (Fire ed) 71:10 Ag 20 '42

INSURANCE agents—Commissions—*Continued*

Texas commissions still hold spotlight. Ins Field (Fire ed) 71:8 Jl 23; 7+ Jl 30 '42

Texas officials probe commission payment facts. Nat Underw 46:5 F 5 '42

Weighs significance of Hill plan. E. C. Stone. Nat Underw 46:21+ Ap 9 '42

See also
Insurance agents—
Policy execution

Company relations

Is the agent being mistreated? J. J. O'Toole. Ins Field (Fire ed) 71:20-1 S 17 '42

It begins with you; co-operation between agents and adjusters essential for good public relations. W. B. Todd. Ins Field (Fire ed) 71:16-18 Ag 13 '42

Pleads for unity in industry. P. Midyette. East Underw 43:26 My 8 '42

Talks on unity to southwest agents. D. A. North. East Underw 43:31 My 29 '42

Contracts

High Pennsylvania court upholds Massachusetts bonding. Ins Field (Fire ed) 70:10 D 18 '41

Ruling on rights to expirations; Michigan Supreme court holds for Auto-owners. Nat Underw 46:19 Ja 8 '42

Conventions

New York state association local agents annual convention, Syracuse. Nat Underw 46:1+ My 14 '42

See also National association of insurance agents

Costs

Agency costs survey by N.A.I.A. East Underw 42:24 D 26 '41

Examinations

New Indiana exam plan gets results. Nat Underw 45:36 N 13 '41

Pennsylvania regulations. Weekly Underw 145:1443 D 27 '41

Law

Action against Mellors by Philadelphia bar association. Weekly Underw 146:806 Ap 4 '42

Agent cannot cancel debts to company by bankruptcy. East Underw 43:22 Ja 9 '42

Agent cannot waive occupation warranty by agreement with assured. East Underw 43:21 Jl 31 '42

Agent's authority and ownership of property. Nat Underw 45:23 N 27 '41

Agent's debts do not prevent wife from getting license. East Underw 43:15 Ja 2 '42

Agent's fraud held not imputed to company says Highest court. Nat Underw (Life ed) 46:8 Jl 10 '42

Better license law Arizona agents' aim. Nat Underw 45:3+ N 6 '41

Caldwell is convicted on count of forgery in connection with Lloyd's policies. East Underw 42:20 D 26 '41

California commissioner insists agents must not mingle companies' money and their own. East Underw 42:34 N 7 '41

Confer on men in service; Illinois insurance men meet with department. East Underw 43:24 Mr 27 '42

Former Indiana agent gets judgment against insurers in balance issue. Nat Underw 45:6 D 4 '41

Graded licenses for agents; improving agency standards. H. H. Corson. Ins Field (Fire ed) 71:20 O 1 '42; Reply. J. M. McCormack. 71:22-3 O 22 '42

Halt licensing of automobile dealers; Georgia law violated. Weekly Underw 146:421+ F 21 '42

High jinks in halls of Missouri legislature; qualifications bill bribe. Weekly Underw 145:1064 N 8 '41

How best to test the agent; what should state licensing requirements be and how applied? abstracts. E. E. Agger. Ins Field (Fire ed) 71:22-5 S 24 '42; East Underw 43:14+ S 18 '42

Indiana agency laws. F. J. Viehmann. Nat Underw 46:5 Ja 15 '42

Insurance agents held to be under unemployment-compensation act; the Supreme court of appeals of Virginia. Monthly Labor R 53:1222-3 N '41

Insurance bribe case conviction; Missouri legislator guilty. Nat Underw 46:6 Mr 26 '42

Insurer wins important N.Y. case on status of agent. Nat Underw (Life ed) 46:9 Jl 24 '42

Law to forestall rebating. C. F. J. Harrington. East Underw 42:28+ N 7 '41

License of Mason Miller suspended. Ins Field (Fire ed) 71:9-10 Mr 26 '42; Nat Underw 46:6+ Mr 26 '42

Licenses of agents in Massachusetts. Weekly Underw 146:1046 My 9 '42

Licenses of seven suspended after trial testimony in Missouri. Ins Field (Fire ed) 71:7-8+ F 19 '42; Nat Underw 46:4+ F 19 '42

Lloyd issues ruling on non-resident brokers in Ohio. East Underw 43:30 Ja 23 '42

Maryland licenses. Weekly Underw 146:992 My 2 '42

Michigan to tighten up on license requirements. Nat Underw (Life ed) 45:4 N 21 '41

Mississippi court holds agent has the power to waive other insurance clause. East Underw 43:20 Ja 23 '42

Producers in service protected by new Illinois law. Weekly Underw 146:1103 My 16 '42; Nat Underw 46:31 My 14 '42

Qualification drive started in Missouri. Weekly Underw 147:265 Ag 8 '42

Restraint on employe to withhold information. J. Simpson. East Underw 42:37 D 19 '41

Rouillard gives rules on agency licenses in New Hampshire. East Underw 43:34 Mr 6 '42

Scheufler lifts ban on St Louis agents. East Underw 43:19 F 27 '42; Nat Underw 46:4+ F 26 '42

Virginia license law effective August 1. Weekly Underw 146:1324 Je 13 '42

See also
Insurance agents—
Contracts
Insurance agents—
Policy execution

Letters to prospects

Do you write good sales letters? G. L. Dundas. Ins Field (Fire ed) 71:20-1 Jl 9 '42

Fidelity and surety bonds; production methods to meet reduced personnel problem. W. J. Purcell. Weekly Underw 147:189+ Jl 25 '42

Multiple line selling

Fire-casualty producers turn to life business. Nat Underw 46:18 S 3 '42; Same. Nat Underw (Life ed) 46:10 S 4 '42

Leading producers prepared for stoppage of auto production. East Underw 43:20-1, 37-8 pt 2 My 15 '42

Life agents selling other lines of insurance coverage. Nat Underw (Life ed) 46:19 Jl 31 '42

Policy execution

Agent wins issue on countersigning. Nat Underw 45:17 D 11 '41

Agents oppose change in countersignature agreement at present. L. W. Garlichs. East Underw 42:1+ N 7 '41

Agree on changes in countersignature plan. East Underw 43:42 Ap 17 '42; Nat Underw 46:23 Ap 16 '42

E.U.A. adopts new rule on brokerage payments. Nat Underw 46:5 My 21 '42

Illinois commissions; legal payment described by Director Jones. Weekly Underw 147:359 Ag 22 '42

Kentucky ruling made on division of commissions. Nat Underw 46:9 Ap 16 '42

Pink will not order agency signature on war damage policies; action in other states. East Underw 43:1+ Jl 31 '42

Reaffirms commissions paid in New Hampshire on countersigned business. A. J. Rouillard. East Underw 43:39 Mr 6 '42

Tennessee cancels its war damage ruling. Nat Underw 46:3 N 5 '42

INSURANCE agents—Policy execution—*Cont.*

War damage policies must be signed by residents in Tennessee. J. M. McCormack. Weekly Underw 147:119 Jl 18 '42

Public relations

General agents are vital cog in public relations wheel. B. McGehean. Ins Field (Fire ed) 71:13+ Jl 23 '42

Public relations in Detroit. E. Salzman. Ins Field (Fire ed) 71:20 Jl 23 '42

Public relations in Rochester. R. A. Duffus. Ins Field (Fire ed) 71:22-3 O 29 '42

Records

If you are going in the service; insurance instruction record form. Ins Field (Fire ed) 71:20-1 S 10 '42

System gets the job done. A. Griffith. Ins Field (Fire ed) 71:18-19 S 10 '42

Rural agents

Advice to rural agents. B. R. Walinder. Ins Field (Fire ed) 71:26-7 Je 4 '42

Rural agents kept busy by added duties. A. H. Case. Ins Field (Chicago Conv Daily ed) 71:16 S 22 '42

Selling insurance to farmers. il East Underw 43:42 pt 2 O 9 '42

Selling to American farmers. L. A. Williams. Nat Underw (Life ed) 45:2+ D 26 '41

Timing is important in soliciting farm business. T. E. Berry. Nat Underw (Life ed) 46:23 Ja 2 '42

Urge agents to join in rural fire prevention. East Underw 43:24 Je 19 '42; Weekly Underw 147:13 Jl 4 '42

See also
Insurance, Fire—
Farm policies

Service

Agents volunteer for federal war insurance. Weekly Underw 145:1392 D 20 '41

Counsels filling needs of the customer. E. C. Stone. East Underw 43:35 My 29 '42

Coverage must stand inspection; lauds work of local agent. M. W. Mays. Weekly Underw 146:1441+ Je 27 '42

For agency cost formula based on over-all agency operations. Nat Underw 46:2 O 22 '42

Future assured for agent who knows and serves. J. C. O'Connor. Nat Underw 46:8 O 29 '42

How to translate tire and gasoline rationing to the agent's advantage. D. Kelleher. Ins Field (Fire ed) 71:16-17 Jl 2 '42

Making hit with oilburnerites; insurance agents mail worksheet to oil users. il Nat Underw 46:16 O 15 '42; Spectator (Property ed) 8:32 O 15 '42; Weekly Underw 147:920-1 O 17 '42

Tells Minnesota association local agent is servant of public. L. D. Engberg. Weekly Underw 147:317 Ag 15 '42

War inspires agents' work in prevention. Ins Field (Chicago Conv Daily ed) 71:3+ S 22 '42

Weighs significance of Hill plan. E. C. Stone. Nat Underw 46:21+ Ap 9 '42

Show windows

Effective window displays bring N.J. agent many valuable contacts. M. Farr. East Underw 42:28 N 21 '41

Training

Keep 'em trained; Aetna's casualty and surety sales course in Hartford does real job. il Ins Field (Fire ed) 71:16-18 Jl 16 '42

Will trained agents write the business? R. A. Stevenson. Ins Field (Fire ed) 71:16-17+ Ja 8 '42

See also
Insurance—Study and teaching
Insurance, Life—Agents—Training

Unions

C.I.O. petitions Metropolitan for election. Ins Field (Life ed) 70:9-10 N 21 '41

CIO wins election among Prudential industrial men in Greater New York area. Nat Underw (Life ed) 45:16 N 14 '41

Denies CIO union's contract claim; John Hancock Mutual Life plan for debitmen. Weekly Underw 146:173+ Ja 17 '42

Prudential agreement with UOPWA signed. East Underw 43:1+ Jl 10 '42

Union contract signed by Pilot Life president. Ins Field (Life ed) 71:10 S 4 '42

Women agents

Ada V. Doyle, N.A.I.W.'s president. Ins Field (Fire ed) 71:20 Ag 13 '42

Should maintain selling personnel through more women in agency field. East Underw 43:31 S 4 '42

Will we have women special agents? B. D. Cole. Ins Field (Fire ed) 71:22 Ap 16 '42

See also
Insurance, Industrial—Agents—Women agents
Insurance, Life—Agents—Women agents
Insurance women

Canada

Canadian recruiting trends; chart. J. M. Holcombe, jr. East Underw 43:4 Je 5 '42

Outlook for tariff insurance in Canada has improved. R. L. Stailing. East Underw 43:34 N 6 '42

Great Britain

Agency in insurance. Economist 143:242-3 Ag 22 '42

Missouri

High jinks in halls of legislature; qualifications bill bribe. Weekly Underw 145:1064 N 8 '41

New York (city)

New York City agents decide to resign from N.A.I.A. Ins Field (Fire ed) 71:7+ Je 11 '42; Nat Underw 46:3 Je 11 '42

INSURANCE agents, National association of. See National association of insurance agents

INSURANCE as a profession

Connecticut General booklet on insurance as career; New horizons. East Underw 43:7 N 6 '42

Points to remember when one is entering life insurance as a permanent vocation. R. W. Weathers. Nat Underw (Life ed) 46:23 S 4 '42

Professional status. S. S. Huebner. East Underw 43:16 O 16 '42

See also
Insurance agents

INSURANCE associations

Atlanta club places emphasis on educational program for insurance girls. E. Gesner and J. Moseley. Ins Field (Fire ed) 71:26-7 My 7 '42

Chicago board recasting; relinquishes rating function, continues as trade group. Nat Underw 46:1 Ja 15; 3 Ja 22; 5 Ja 29 '42

Complete Chicago board changes. Nat Underw 46:1+ Ap 30 '42

Insurance accounting and statistical association annual meeting, St Louis. Nat Underw 46:6+ Ap 30 '42; Nat Underw (Life ed) 46:1+ My 1 '42

Robert O. Young elected at reunion of fire fraternity. Nat Underw 45:4 N 13 '41

Rochester board honored for its excellent public relations work. East Underw 43:26 Je 5 '42

St Paul girls, a top-notch club. E. Gesner and J. Moseley. Ins Field (Fire ed) 71:22-3 Ap 2 '42

Scores passive attitude toward anti-compact laws; abstracts. B. W. Levit. Nat Underw 46:5 Mr 5 '42; Weekly Underw 146:592 Mr 14 '42

Thirteen N.Y. groups in tribute to Myrick. East Underw 42:6+ D 19 '41

True nature of organization activity. W. N. Achenbach. Nat Underw 46:1 Jl 9 '42

Urges coextensive plan for all local boards. T. G. Redden. Weekly Underw 146:1055 My 9 '42

INSURANCE associations—*Continued*

Your association; how to organize new N.A.I.W. clubs. E. Brink. Ins Field (Fire ed) 71:24-5 Jl 9 '42

See also

Factory insurance associations

Insurance—Pools

also names of insurance associations, e.g.

Institute of life insurance

Insurance economics society of America

Interstate underwriters board

National association of insurance agents

Western factory insurance association

INSURANCE brokers

Brokers may fall under U.S. rule; premiums collected for foreign insurers. Nat Underw 45:3 N 13 '41

Federal court rules assured has right to change broker at will. East Underw 43:24 Ag 7 '42

Finley runs brokerage agency. East Underw 43:13 F 27 '42

Herbert J. Pohs opens insurance institute for brokers. East Underw 43:22 Ja 9 '42

Illinois brokers file query for service men. Weekly Underw 147:15 Jl 4 '42

Insurance broker-agent; their status under the laws of the various states. H. Law. 112p pa $1.50 Harrison Law, 44 Whitford av, Nutley, N.J. '41

Insurance protection, and the war; brokers' service looms increasingly important. C. O. Pate. Weekly Underw 146:49-50 Ja 3 '42

Makes survey of all needs affected by war conditions. Nat Underw 46:19 O 8 '42

N.Y. Dept. not to act on broker-agent rule. East Underw 43:17 O 30 '42

Reach agreement to give brokers vote in Chicago. Nat Underw 46:12 Ap 30 '42

Remarkable tribute to a broker; importers take space in daily papers to praise W. E. Goodridge & son. East Underw 43:36 O 2 '42

Today's broker's market. P. T. Campbell. East Underw 43:20 N 6 '42

INSURANCE brokers' association of New York

Annual meeting, New York. East Underw 43:20 My 1 '42; Weekly Underw 146:994-5 My 2 '42

INSURANCE clerks mutual benefit association of the city of New York

Security reinsures Insurance Clerks. East Underw 42:12 N 28 '41

INSURANCE commissioners

Commissioner Larson of Florida has made an impressive record. H. W. Laird. East Underw 43:21 Ja 2 '42

Commissioners defend Iowa department head in connection with American Mutual. East Underw 42:9 D 5 '41

Dr Agger, economist, for N.J. commissioner. East Underw 42:5 N 14 '41

Dr Agger is confirmed as N.J. commissioner. Nat Underw 46:8 Ja 29 '42

Fischer ouster move waits on interpretation. Nat Underw (Life ed) 45:3+ N 28 '41

Massachusetts commissioner; Charles F. J. Harrington. S. Welton. East Underw 43:46 Ap 17 '42

Republican successes mean new insurance commissioners in several states. Weekly Underw 147:1052 N 7 '42

Rules Sims need not go to Detroit for arraignment. Nat Underw 46:4 Ja 22 '42

Seek Fischer ouster in American Mutual case. Nat Underw (Life ed) 45:3+ N 21 '41

Sues Nebraska authorities over Pathfinder issue. Nat Underw (Life ed) 45:4 N 28 '41

INSURANCE commissioners, National association of. See National association of insurance commissioners

INSURANCE companies

American States buys Union of Indiana. Nat Underw 46:19 S 17 '42

Brief review of events occurring in 1941; official changes, new companies, etc. in 1941. Weekly Underw 146:10-14 Ja 3 '42

British court rules on status of companies in occupied countries. Weekly Underw 145:1402 D 20 '41

Groups in the insurance business and their relation to its present and future developments; address to Vermont agents. J. Van Wiseman. Nat Underw 46:3+ My 21 '42

Joint committee adopts resolution on penalties. Weekly Underw 145:1235-6 N 29 '41

Meeting demands of war time; what casualty and surety companies have done. J. D. Dorsett. Nat Underw 46:21 Je 18 '42

See also

Insurance—Pools

Accounting

Iowa holds unearned premiums be based upon amount in policy. East Underw 42:19 N 21 '41

New type of formula for valuation of bonds adopted by National association of insurance commissioners. Nat Underw 46:1+ Je 11 '42; Same. Nat Underw (Life ed) 46:3+ Je 12 '42

Premiums overdue from U.S. cut into surplus showings. Nat Underw 46:18 Ja 22 '42

Advertising

Advertising buying habits of twenty companies surveyed in Casualty insurance principles. L. F. Tillinghast. East Underw 43:32 O 16 '42

Agents encourage wartime advertising; questionnaire discloses increased readership and use of material. W. C. Rhoades. Weekly Underw 146:646-7 Mr 21 '42; Same. East Underw 43:27 Mr 20 '42; Same. Spectator (Property ed) 7:24+ Ap 2 '42; Same. Nat Underw 46:5+ Mr 19 '42

Connecticut Mutual 1943 calendar to feature American artists again. il East Underw 43:4 Jl 31 '42

Currier & Ives prints feature Travelers calendar for 1942. East Underw 42:3+ N 28 '41

Fighting the 7th column; Liberty mutual insurance co. campaign to promote safety. Business Week p99 Ag 15 '42

Letters, 12,342; replies, 1,474 (11.9%); cost per inquiry, $0.75; National fire group advertises to agents. J. W. Mason. Ptr Ink 199:22, 24+ Je 26 '42

Liberty Mutual to devote all its advertising to smashing 7th column. East Underw 43:27 Jl 31 '42

Metropolitan Life's farm ads culminate years of planning. J. Philp. il East Underw 42:28+ D 12 '41

Seventh column exposed; insurance company has turned its advertising to prevention of accidents. il Ptr Ink 200:48-9 Ag 7 '42

Trade press advertising builds agent good will and new business; abstracts. J. A. Gernhardt. East Underw 42:29 D 5 '41; Weekly Underw 145:1406 D 20 '41

Two Hartfords advertise W. D. C. coverage. Ins Field (Fire ed) 71:10 O 15 '42

Two Hartfords 1942 ad campaign. il East Underw 43:28 Ja 16 '42

War and your insurance agent, timely ad theme of two Hartfords. East Underw 43:41 O 9 '42

See also

Insurance—Advertising

Insurance, Life—Advertising

Insurance agents—Advertising

Branch offices

Modern life insurance agencies; New England branch office of the New York Life, Boston. W. A. Hamlin. il Spectator (Life ed) 149:52-7 O '42

Consolidation

Caminetti plans consolidation of chapter 9 firms. Nat Underw (Life ed) 46:3-4 Jl 10 '42

Group of 3 factory mutual units is cut to single insurer. Nat Underw 45:16 N 20 '41

Hearthstone life of Indianapolis is absorbed by State Life. Ins Field (Life ed) 71:5 O 30 '42

Two companies merge production efforts; General Accident and Potomac. Weekly Underw 146:1172 My 23 '42

INSURANCE companies—*Continued*

Credit departments

Credit in the insurance business. D. C. Campbell. Credit & Fin Management 43:20-1 D '41

Direct selling

Scout the other team; learn plays of direct writers for effective competitive results. E. S. Oppenheimer. Ins Field (Fire ed) 70:22-3 N 6 '41

Directories

Insurance almanac. J. D. Hogshead, ed. 30th ed 1166p $3 Weekly underwriter, New York '42

Employees

Across the cashier's desk. C. Ludwig. East Underw 43:120+ pt 2 O 9 '42
Advocates companies adopt wage and hour regulations. J. B. Slimmon. East Underw 43:1+ My 1 '42
Aetna life companies grant salary increase. East Underw 42:6 D 5 '41
British see value of insurance technicians. Spectator (Property ed) 7:24 F 19 '42
Claim men denied preferred status in rationed area. T. E. Harris. Nat Underw 46:19 S 3 '42
Extra employe pay for Massachusetts Bonding, Seaboard Surety, American Surety. East Underw 42:33 D 26 '41
Farsighted personnel policy seen as matter of first interest to companies. F. L. Brokaw. Weekly Underw 147:910 O 17 '42
Gas rationing hits company men. Nat Underw 46:15 Ag 27 '42
Gasoline and tire restrictions raise numerous questions. Nat Underw 46:5 N 5 '42
Hundreds in street see banner presented; Metropolitan bond record. East Underw 43:5+ O 16 '42
Insurance is being checked on wages, hours. Nat Underw 46:3 O 22 '42
Insurance men must be quick to act on federal legislation; Wage and hour act. T. Watters, jr. East Underw 42:1+ N 14 '41
Insurance status under Fair labor standards act. H. D. Jacobs. East Underw 43:21 Ap 3 '42
Many replacements by women in New York companies' head offices. I. Davis. East Underw 43:1+ My 15 '42
Mutual Life people tell radio audience how to get ahead. East Underw 42:3 N 14 '41
National Fire of Hartford pay increase. Weekly Underw 145:1233 N 29 '41
New primer on testing for employe selection. East Underw 43:12 S 4 '42
Personnel drain is one of chief effects of war. H. C. Bates. Nat Underw (Life ed) 46:3+ Ag 28 '42
Personnel problem in Hartford is especially acute. R. B. Mitchell. Nat Underw 46:21+ Ja 29 '42; Same. Nat Underw (Life ed) 46:1+ Ja 30 '42
Relation of insurance to federal wages and hours legislation. Ins Field (Fire ed) 71:9-10+ Ap 2 '42; Same. Ins Field (Life ed) 71:8-10 Ap 17 '42
Statements clarify status of insurance co. employees under wages & hours laws. Ins Field (Fire ed) 71:8-9 F 19 '42; Same. Ins Field (Life ed) 71:7 F 20 '42
Survey shows value of college courses; 90 percent stay in insurance. Nat Underw 45:6 N 20 '41
Time spent driving automobile on insurance employer's business under wage-hour law. Weekly Underw 147:287 Ag 8 '42
Trained insurance men and our American diplomats afford interesting contrast. F. L. Brokaw. Weekly Underw 147:1007 O 31 '42
U.S. specifications on wage-hour coverage. East Underw 43:18 F 13 '42; Nat Underw 46:4+ F 12 '42; Nat Underw (Life ed) 46:4 F 13 '42
Wage control law's effect on insurance. Nat Underw 46:1+ O 15 '42; Nat Underw (Life ed) 46:1+ O 23 '42
See also
Insurance agents

Equipment and supplies

Office equipment demands will hit insurance offices. Nat Underw 46:3 N 5 '42; Same. Nat Underw (Life ed) 46:4 N 6 '42
Office equipment problems scanned. J. E. Mumper. Nat Underw 46:4+ Ap 30 '42; Same. Nat Underw (Life ed) 46:1+ My 1 '42
Priority problems of companies grow with new demand of war. East Underw 43:1+ Ja 9 '42

Examination

Commissioners agree on examination plan of qualifications. East Underw 43:1+ Ap 17 '42; Nat Underw 46:10 Ap 16; 11 Ap 23 '42
Examination costs; abstracts. C. F. Hobbs. East Underw 43:22+ Je 12 '42; Nat Underw 46:3+ Je 11 '42; Nat Underw (Life ed) 46:6+ Je 12 '42
Levels torrid blast at examiners' fees. J. J. Holmes. Nat Underw 45:6+ D 11 '41; Same. Nat Underw (Life ed) 45:10 D 12 '41; Reply by C. A. Gough and rejoinder. Nat Underw 46:6-8 Ja 15 '42; Same. Nat Underw (Life ed) 46:2+ Ja 16 '42
Proposed statute on examinations. J. M. McCormack. Nat Underw 45:5+ D 11 '41; Same. Nat Underw (Life ed) 45:13 D 12 '41
Recommendations of examinations group of commissioners. W. L. Harris. Weekly Underw 146:1353 Je 13 '42
Zone 3 commissioners act on examinations. Ins Field (Fire ed) 70:7 N 20 '41

Failures

See Insurance companies—Receiverships

Finance

American fire and casualty company; analysis. Spectator (Property ed) 7:42-4 Mr 19 '42
Associated indemnity corporation, San Francisco; analysis. Spectator (Property ed) 7:30-2 Ja 8 '42
Associated indemnity corporation analysis. Spectator (Property ed) 8:30-1 Ag 6 '42
Best's analysis of operating expense of companies. Nat Underw 45:13 N 13 '41
British insurance in America. Economist 141:508-9 O 25 '41
Buffalo insurance company; analysis. Spectator (Property ed) 8:32-3 S 3 '42
Coal Operators settles claims, ends suit. Nat Underw 46:19 Ja 22 '42
Commercial standard insurance company, Fort Worth, Texas, company analysis. Spectator (Property ed) 7:36-7 My 14 '42
Commonwealth insurance co. of New York analysis. Spectator (Property ed) 7:28-30 D 25 '41
Dubuque fire and marine insurance company; analysis. Spectator (Property ed) 7:30-1 Ap 30 '42
Figures from Dec. 31, 1941, statements. Nat Underw 46:5 F 5; 6 F 12; 5 F 19; 6 F 26; 16 Mr 5; 20 Mr 12 '42
Groups of insurance companies, underwriting results in 1941. Spectator (Property ed) 7:37 Mr 19 '42
Insurance stocks. Comm & Fin Chr 155:1526 Ap 16 '42
Insurance stocks; current underwriting profits. Comm & Fin Chr 154:1206 N 27 '41
Insurance stocks; estimates of 1941 operations. Comm & Fin Chr 155:102 Ja 8 '42
Insurance stocks; impact of war on profit differences in particular types of volume. Comm & Fin Chr 155:550 F 5 '42
Insurance stocks; Justice department antitrust division investigation of fire and marine insurance companies. G. P. Comer. Comm & Fin Chr 155:1326 Ap 2 '42
Insurance stocks; maintenance of liquidating values in the face of generally lower security markets. Comm & Fin Chr 155:934 Mr 5 '42
Maryland Casualty adds $12,500,000 to its basic funds. S. McDonald. Nat Underw 46:15+ Ag 20 '42
Maryland Casualty votes new financing plans. Weekly Underw 147:562+ S 12 '42; Nat Underw 46:25 S 17 '42

INSURANCE companies—Finance—*Continued*

National automobile insurance company; analysis. Spectator (Property ed) 8:38-9 O 1 '42

1941 N.Y. state experience of fire insurers. Nat Underw 46:20+ Mr 5 '42

Pacific indemnity company; analysis. Spectator (Property ed) 8:30-2 O 29 '42

Premiums and losses by classes. 1941 experience; tabulation. Weekly Underw 146: 480-1, 490, 538-42, 559-60, 598-9, 616, 656, 666, 724 F 28-Mr 28 '42

Premiums on principal lines in 1941. Nat Underw 46:31 F 12; 10-11 F 19; 12-13 F 26; 22 Mr 5 '42

Provident Life & Accident convention examination. East Underw 43:29 Ja 16 '42

St Paul fire and marine insurance company analysis. Spectator (Property ed) 8:30-1 Jl 9 '42

Specialty lines of fire companies generally show higher premiums. East Underw 43: 18+ Mr 6 '42

Stock fire 1941 experience by lines from Argus chart; tabulation. Nat Underw 46: 13-15 Mr 12 '42

Total premiums and losses all classes, 1941 experience; fire companies; tabulation. Weekly Underw 146:716 Mr 28 '42

Underwriting and investment profits and losses in 1941; record of 100 leading companies; tabulation. Spectator (Property ed) 8:22-3 S 17 '42

Underwriting results of groups of fire and casualty insurance companies in 1941; tabulation. Spectator (Property ed) 8:24 S 17 '42

United States fidelity & guaranty co. of Baltimore; 1941 most profitable year in history. Comm & Fin Chr 155:511 Ja 31 '42

Unusual methods of Allstate are described in audit. Nat Underw 45:21 D 25 '41

See also Fireman's fund insurance company

Foreign branches

British insurance in America. Economist 141: 508-9 O 25 '41

British may now deal with any insurer in U.S. Nat Underw 46:3 My 7 '42

Enemy carrier in license test; Swiss National loses suit against U.S. Attorney General and U.S. Treasurer. Weekly Underw 147:209+ Ag 1 '42

Far East business carries on; American fire companies concerned for staffs but see little immediate loss. R. Rhodes. Weekly Underw 145:1321+ D 13 '41

London guarantee & accident co. observes 50th anniversary in United States. W. L. Clapp. East Underw 43:36 O 9 '42

Pearl marks 15th anniversary of operations in United States. East Underw 43:20 My 8 '42

Pilot Re in liquidation. East Underw 43:29 F 20 '42

Russian suit action; New York Supreme court rules on action brought by creditors. Weekly Underw 147:320 Ag 15 '42

$7,850,000 of Jap insurers' assets left in U.S. Nat Underw 45:29 D 18 '41

Standard assumes risks for Tokio and Meiji. Weekly Underw 146:135 Ja 10 '42

Status of foreign carriers' American funds; decision of New York Supreme court, Buxbaum and others v. Assicurazioni generale. Weekly Underw 146:469+ F 28 '42

Supreme court rejects New York's claims to Russian funds; upholds U.S. government claim. Comm & Fin Chr 155:671 F 12 '42

To liquidate Pilot Reinsurance. Nat Underw 46:3 F 5 '42; East Underw 43:26 F 6 '42

Tokio, Meiji, Sumitomo are being seized. Nat Underw 45:17 D 11 '41

Treasury licenses on desired basis for U.S. branches. Nat Underw 45:13 N 20 '41

U.S. high court holds for U.S. in First Russian case. Nat Underw 46:6 F 5 '42

Unity Fire to succeed Union of Paris branch. Weekly Underw 146:1054 My 9 '42

Insurance requirements

Life companies should have war damage cover. J. M. Bryan. Nat Underw 46:3+ O 8 '42; Same. Nat Underw (Life ed) 46:3+ O 9 '42

War damage cover for life companies is explained. Nat Underw (Life ed) 46:8 Jl 17 '42

Investments

Companies' buying of U.S. issues is aiding war effort. Nat Underw 46:5 Ja 1 '42

Insurance executives express belief that heavy buying of government paper will not impair values. D. Wimmer. Ins Field (Fire ed) 71:8-9 Jl 2 '42

View on investments at present time. J. S. Kemper. Nat Underw 46:23+ Mr 26 '42

Valuation

Dec. 1 values better than Dec. 31. Nat Underw 46:3 Ja 8 '42

New type of formula for valuation of bonds adopted by National association of insurance commissioners. Nat Underw 46:1+ Je 11 '42; Same. Nat Underw (Life ed) 46:3+ Je 12 '42; Same. Spectator (Life ed) 148:6+ Je 18 '42

Report of committee on valuations of Commissioners convention. Weekly Underw 145: 1391 D 20 '41

Valuation of assets rules issued in Ohio. Weekly Underw 147:212 Ag 1 '42

Legal service

Duty of insurer to defend based on allegations in damage suit complaint. Weekly Underw 146:1029 My 2 '42

License tax

Kentucky city tax law on company perplexes. Ins Field (Fire ed) 71:9 Ag 27 '42; Same. Ins Field (Life ed) 71:8 Ag 28 '42

Management

Danger of officials growing old together. Nat Underw 46:13 F 19 '42

Insurance leadership can provide blueprint for building new order. F. L. Brokaw. East Underw 43:17 Ag 7 '42

New committees join Penn Mutual councils. J. A. Stevenson. Weekly Underw 146:1078 My 9 '42

Ousting of poor quality producer is vital today; some Ohio Life methods. J. H. Evans. Nat Underw (Life ed) 45:3+ N 7 '41

Penn Mutual sets up new advisory groups. East Underw 43:5 Mr 27 '42

Pleads for unity in industry. P. Midyette. East Underw 43:26 My 8 '42

Session on home office management reviews war shifts. Nat Underw (H. & A. conference no) 46:6+ My 29 '42; East Underw 43:43+ My 29 '42

Surveys company steps to conserve material and manpower. C. G. van der Feen. East Underw 43:26+ Ag 14 '42

Value of premium dollar; substantial amount of business, at adequate rates, requisite for stability of carriers. F. J. Parry. Weekly Underw 147:957+ O 24 '42

See also Life office management association

Multiple line writing

Auto situation puts emphasis on line diversification. Nat Underw 46:19+ Ja 22 '42

See also
Insurance agents—
Multiple line selling

Officials

A. N. Kemp president of American Airlines; Asa V. Call head of Los Angeles company for duration. pors East Underw 43:12 Ap 17 '42; Nat Underw (Life ed) 46:3 Ap 17 '42

Brief review of events occurring in 1941; official changes, new companies, etc. in 1941. Weekly Underw 146:10-14 Ja 3 '42

INSURANCE companies—Officials—*Continued*

Bullock becomes chairman of State Mutual; George Avery White new president; other officers. pors East Underw 43:3+ Ag 28 '42

Careers of new top executives of Caledonian and Netherlands. East Underw 43:17 Mr 6 '42

Careers of officials advanced by Aetna affiliated group. Weekly Underw 146:442 F 21 '42

Cecil J. North, Metropolitan's second vice-president in charge of agency force. C. Axman. East Underw 43:3+ My 29 '42

Danger of officials growing old together. Nat Underw 46:13 F 19 '42

Doolittle and Tumblety elected to top posts in Empire state mutual life of Jamestown, N.Y. pors East Underw 43:45 Ap 17 '42

Edward G. Lowry, jr., senior vice-president of Maryland casualty. C. Axman. East Underw 43:34+ Je 5 '42

Fine is imposed on C. L. Jackman. Nat Underw 46:6 Mr 19 '42

Gardiner made head of Hartford Steam Boiler; other promotions. East Underw 43:33+ F 20 '42

Hanover's Fire executive personnel. pors East Underw 43:20+ Ap 24 '42

Home makes Potter and Peterson vice-presidents; other promotions. East Underw 42:86 D 12 '41; Nat Underw 45:5+ D 11 '41

Ivan Escott, vice-president of Home and president of Factory insurance association. C. Axman. East Underw 43:17+ My 15 '42

John M. Powell combines skill as actuary with leadership ability. W. L. Clapp. East Underw 43:44 My 29 '42

John S. Sinclair; new executive vice-president of New York Life. C. Axman. East Underw 43:3-4 My 22 '42

Lincoln completes third of unique trips meeting field forces. East Underw 43:3 Jl 17 '42

Metropolitan names two vice-presidents. East Underw 42:6+ D 19 '41; Nat Underw (Life ed) 45:1+ D 19 '41

New York Life makes numerous agency changes. Nat Underw (Life ed) 46:1+ Ja 2 '42

Nourse retires as London's manager; Sheffe succeeds him; Meiss advanced. pors East Underw 43:20+ Je 12 '42; Nat Underw 46:3+ Je 11 '42

Penn Mutual has 3 new 2d vice-presidents. East Underw 43:6 Ja 23 '42

Robertson president of the Secured fire and marine of Indianapolis. East Underw 43:26 O 23 '42

Sidelights on a few personalities who help guide the insurance ship of state. R. L. Barbour. Ins Field (Life ed) 71:6 My 1 '42

Unveil E. E. Rhodes painting. il East Underw 43:3 Ag 7 '42

We have with us today; interesting personalities in the life insurance business. East Underw 42:14-15 D 12 '41

Public relations

Assails companies for silence under attack. W. H. Bennett. Nat Underw 46:1+ S 10 '42

Building of good will for insurance. R. P. Barbour. East Underw 42:16 D 5 '41

Four-square; instance of the best type of public relations for an insurance company. E. L. Scott. Ins Field (Fire ed) 71:18-19 Jl 30 '42

Importance of public relations viewpoint seen in trip through New England. R. L. Barbour. Ins Field (Life ed) 71:8 Je 26 '42

Little woman springs a suggestion; placing copies of special numbers of insurance periodicals in physicians' and dentists' offices. Weekly Underw 146:1135 My 16 '42

Maximum public acceptance is based upon thoughtfulness, courtesy, humanity. R. L. Barbour. Ins Field (Life ed) 71:6 Jl 3 '42

Nationwide survey for Aetna reveals public believes insurance companies contribute to national welfare. M. Russell. Comm & Fin Chr 156:978 S 17 '42; Same. East Underw 43:16 S 18 '42; Same. Nat Underw 46:20 S 17 '42; Same. Nat Underw (Life ed) 46:4 S 18 '42

Need to mold public opinion. J. W. Barndollar. Ins Field (Chicago Conv Daily ed) 71:13 S 24 '42; Abstracts. East Underw 43:28 S 25 '42; Nat Underw 46:26 S 24 '42

Our business and the public. A. O. Robinson. Ins Field (Fire ed) 71:18-19 Jl 9 '42

Public opinion; opinion of the man on the street on life insurance. Spectator (Life ed) 149:54-6 Jl '42

Public relations job could be done much better. W. J. Blackburn. Nat Underw 45:6 N 27 '41

Public should know; is it important to teach high school students the facts of life insurance? M. C. Laughman. Ins Field (Life ed) 71:16-17 Jl 17 '42

Sales value of the claim man. W. I. Baxter. East Underw 43:13 pt 2 My 15 '42

Satisfying insuring public should be chief aim; public relations and surety claim men. A. Foster, jr. Weekly Underw 146:792+ Ap 4 '42

Story of evolution of Ætna films since genesis of enterprise in 1934. S. F. Withe. East Underw 43:34 Jl 3 '42

Trends in government ranks; recommends public relations program; abstracts. L. C. Hilgemann. East Underw 43:16 Ag 14 '42; Weekly Underw 147:318+ Ag 15 '42

See also

Institute of life insurance

Real estate operations

See also

Insurance, Life—Real estate operations

Receiverships

Assessment order in Central Mutual case is upheld. Nat Underw 46:21+ Ja 29 '42

Atlantic mutual casualty insurance company receivership ended. Comm & Fin Chr 156:862 S 7 '42

Policyholder loses assessment fight; North Carolina trucker must pay Central Mutual receiver. Nat Underw 46:15+ Ag 13 '42

Rossia International liquidation speeded. Nat Underw 46:40 Mr 5; 16 Ap 30 '42

Records

Advances made in photographing of records. Nat Underw (Life ed) 46:8 Ap 17 '42

Bordereaux now superficial, cryptic. W. J. Langler. Nat Underw 45:32+ D 25 '41

Magic mirrors; machine that can photograph two sides at the same time. Dun's R 50:24 O '42

Mutual life of N.Y. micro-films records. East Underw 43:7 Je 12 '42

Turn to microfilm to protect records against air raids. Nat Underw 45:12 D 18 '41

Regulation

Anti-trust principle still lives; state regulation of insurance rates. C. F. Hobbs. East Underw 42:31 N 21 '41

Attacks arbitrary rulings, other abuses; calls upon insurance industry to hasten revision of practices. J. A. Diemand. Ins Field (Fire ed) 71:7+ Ja 29 '42; Abstracts. East Underw 43:1+ Ja 30 '42; Nat Underw 46:3+ Ja 29 '42

Court of appeals decides for Pink; reverses lower court holding for Warner reciprocals. East Underw 43:26+ Je 12 '42

Free enterprise urged for insurance business. P. F. Jones. Comm & Fin Chr 156:1181 O 1 '42

Hunland offers best example of unwisdom of state bureaucratic supervision. F. L. Brokaw. Weekly Underw 147:166 Jl 25 '42

Insurance supervision ideas; abstracts. R. H. Blanchard. Weekly Underw 146:343-5 F 7 '42; Nat Underw 46:1+ Ja 22 '42; Nat Underw (Life ed) 46:7 Ja 23 '42; East Underw 43:17 Ja 23 '42

Texas commissions still hold spotlight; statement of the Potomac. Ins Field (Fire ed) 71:8 Jl 23 '42

INSURANCE companies—Regulation—*Cont.*

War damage threat to private cover; abstracts. E. W. Sawyer. Weekly Underw 147:441+ Ag 29 '42; Nat Underw 46:15+ Ag 27 '42; East Underw 43:24 Ag 28 '42

Where is a reciprocal insurance exchange doing business? digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:50-2+ S 17 '42

See also
Insurance law

Reports

Berry wants breakdown of experience figures by companies operating in Michigan. East Underw 43:22 F 13 '42

Blanks committee makes several major proposals. Nat Underw 46:4 My 7 '42; Nat Underw (Life ed) 46:2 My 8 '42

Companies getting relief on war project premiums. East Underw 43:33 F 20 '42

Four color lithography in annual report of Western & Southern. il East Underw 43:15 F 27 '42

Gains and losses; ruling by Maryland. Weekly Underw 145:1326 D 13 '41

Humanized annual statement of Equitable life assurance society. East Underw 43:14 Ap 10 '42

Institute survey shows companies' reports grow more informative. East Underw 42:40 D 12 '41

New York department to supply blanks only on request. Nat Underw 46:6 Ag 27 '42; Same. Nat Underw (Life ed) 46:4 Ag 21 '42

60-day leeway in filing schedules gets officials' O.K. Nat Underw (Life ed) 46:1 S 25 '42

Text of report on salary listing. Nat Underw 46:21 Je 18 '42

Securities

Capital invested in insurance stocks has suffered less from war or catastrophe. F. L. Brokaw. Weekly Underw 146:586 Mr 14 '42

End of summer gives stockholders opportunity to study company position. F. L. Brokaw. Weekly Underw 147:442 Ag 29 '42

Eye marine losses, insurance stocks. Nat Underw 46:1 My 14 '42

How British loan collateral has been handled; performance of insurance stocks. F. L. Brokaw. Weekly Underw 147:263 Ag 8 '42

How much of a war hedge are insurance stocks? Comm & Fin Chr 155:2198 Je 11 '42

Insurance share index, Dec. 31, 1941, with comparative figures at six-monthly intervals since the end of 1939. Economist 142:156 Ja 31 '42

Insurance share index, June 30, 1942, with comparative figures at half-yearly intervals since the middle of 1940. Economist 143:150 Ag 1 '42

Insurance stocks. Published in weekly numbers of Barron's

Insurance stocks offer stability and tax advantages to investors. Comm & Fin Chr 154:1014 N 13 '41

Insurance stocks; Royal bank of Canada will sell at auction shares of Home insurance co. and National liberty insurance co. Comm & Fin Chr 156:270 Jl 23 '42

Insurance stocks: their degree of activity, distribution, market, etc. Comm & Fin Chr 156:94 Jl 9 '42

Investment trust people prefer their own shares to insurance equities. Nat Underw 46:13 Ja 22 '42

Market performance of fire and casualty insurance stocks since entry of the United States into World war II. Comm & Fin Chr 154:1646 D 25 '41

Predict Royal bank of Canada will bid in stock; situation in Home fire security co. Nat Underw 46:2 Jl 23 '42

Sale of Home stock largest single trade ever in American market. F. L. Brokaw. Weekly Underw 147:210 Ag 1 '42

Weigh effect of marine losses; Mackubin, Legg & co. Nat Underw 46:8 My 28 '42

Service

Calls for ampler key to profit motive. R. Kenney. East Underw 42:37 N 7 '41

Rehabilitation of many heart patients possible. W. S. Priest. Nat Underw (Life ed) 46:2+ Mr 20 '42

Stationery, printing, etc.

Conservation and common sense in carrying on normal economy. F. S. Ennis. East Underw 43:28 My 1 '42; Same. Nat Underw 46:23+ Ap 30 '42

New SEUA forms embody labor saving ideas. Nat Underw 46:4+ S 24 '42

Wants cut in paper hours; endorses shortened policy. A. Ryder. East Underw 43:36 F 20 '42

Statistics

Consolidated chart of insurance organizations. A. S. Hamilton, comp. 1942 ed 94p $1.25; pa $1 Fraternal monitor, 537 Powers bldg, Rochester, N.Y. '42

Insurance accounting and statistical association annual meeting, St Louis. Nat Underw 46:6+ Ap 30 '42

Spectator, Property insurance review; statistical issue. Spectator (Property ed) 8:9-58 S 17 '42

War emergency brings adoption of simplified codes, coding procedures. C. G. VanderFeen. East Underw 43:35+ My 22 '42

Taxation

Agree on tax for combination life, accident and health units. Nat Underw (Life ed) 46:1 Jl 3 '42

Assured's thrift being penalized by taxation; U.S. Chamber survey. Nat Underw 46:3 N 5 '42; Same. Nat Underw (Life ed) 46:3 N 6 '42; Same. Comm & Fin Chr 156:1705 N 12 '42

Attacks mutuals' position on income taxes; abstracts. R. Murphy. Nat Underw 46:15+ Ap 23 '42; East Underw 43:47, 50 Ap 24 '42

California constitutional amendment to be submitted at November election. Weekly Underw 147:716-17 S 26 '42

Carriers lose Georgia tax case; Northwestern Mutual Life must pay on mortgage loans. Weekly Underw 146:421+ F 21 '42

Central Life need not pay premium tax on Illinois Life fund business in Illinois. Nat Underw (Life ed) 46:10 Mr 13 '42

Commissioners eye problem of municipal taxes. Nat Underw 46:3 Je 18 '42

Companies lose big annuity tax case in California. Nat Underw (Life ed) 46:6 Jl 3 '42

Companies make counter proposals for U.S. tax change. Nat Underw (Life ed) 46:1 My 8 '42

Company men confer on tax formula in Chicago. Nat Underw (Life ed) 46:1 Ap 3 '42

Connecticut reports on tax collections. Weekly Underw 145:1271 D 6 '41

Current tax legislation, history and theory. E. E. Rhodes. East Underw 43:15 O 9 '42

Effect of proposed tax law studied; abstracts. W. O. Menge. Nat Underw (Life ed) 46:47 O 9 '42; East Underw 43:10 O 9 '42

Effect of tax base change on casualty carriers. H. B. Leifflen. Nat Underw 45:20 N 6 '41

Enlists policyholders in federal income tax battle. H. G. Kemper. Nat Underw 46:25 S 3 '42

Factory mutuals fight tax move. Nat Underw 46:3+ Ap 16 '42

Federal court holds premium paid U.S. companies on Canada business is not income. East Underw 43:16 Ag 7 '42

Great Northern and Lincoln National sue Oklahoma commissioner on premium tax rise. East Underw 43:17 Ap 3 '42

High court upholds annuity premium tax in California. Nat Underw (Life ed) 46:3 S 4 '42

How proposed new federal tax plan would affect insurance costs. Spectator (Life ed) 149:49 Ag '42

Insurance stocks; companies under the Revenue bill of 1942. Comm & Fin Chr 156:1702 N 12 '42

INSURANCE companies—Taxation—*Continued*

Insurance stocks; tax advantages enjoyed by an insurance company. Comm & Fin Chr 156:974 S 17 '42
Insurance taxation discussed before House committee; abstracts. R. Paul. Weekly Underw 146:520+ Mr 7 '42; Nat Underw (Life ed) 46:3+ Mr 6 '42
Insurers carry a heavy tax load. R. H. Matthias. Nat Underw (Life ed) 46:2 Ap 24 '42
Insurers win dividend tax issue in Iowa. Nat Underw (Life ed) 46:3 Mr 20 '42
Kentucky commissioner calls attention to tax on dividends. Nat Underw (Life ed) 46:6 Ja 23 '42
Life companies will pay $25,000,000 taxes in 1942 under the new revenue act. D. Wimmer. Ins Field (Life ed) 71:6-7 N 6 '42
McAndless plan in tax bill. Nat Underw (Life ed) 46:1 Jl 17; 1 Jl 24 '42
McAndless plan on taxes wins Washington O.K. Nat Underw (Life ed) 46:1+ Je 19 '42
Metropolitan must pay tax on collection refund. Nat Underw (Life ed) 46:13 Je 5 '42
Michigan rules on taxation question; direct premium payments. Weekly Underw 146:1389 Je 20 '42
Move against Lloyds is made in Tennessee. Nat Underw 46:7 Jl 16 '42
Murphy urges committee to tax big mutuals; Senate finance group hearings. Ins Field (Fire ed) 71:7+ Ag 20 '42
Mutual leaders assail income tax proposal. Nat Underw 46:2+ Ag 20 '42
Mutual tax provisions of House bill. Spectator (Property ed) 8:9, 34-5 S 3 '42
Mutual taxation plan opposed. A. V. Gruhn. East Underw 43:38 Ap 17 '42
Mutual taxation position taken by federal body. Nat Underw 46:4 Je 11 '42
Mutuals put up stout fight against U.S. tax. R. B. Mitchell. Nat Underw 46:21+ Ap 16 '42
Mutuals seek aid of members in tax fight. East Underw 43:29+ S 4 '42
New Hampshire court upholds state tax law. East Underw 43:10 Ja 16 '42
1942 tax proposals examined. F. L. Morton. East Underw 43:14 Ap 17 '42
Occidental files petition for refund of taxes on two reinsured companies. East Underw 43:11 S 18 '42
Ohio need not retaliate for Texas taxes. Ins Field (Fire ed) 71:15 Mr 12 '42
Oklahoma premium tax may be litigated. Nat Underw 46:15 F 19 '42
Plan for allocation of marine premiums studied. Nat Underw 46:6 Jl 9 '42
Revenue bill changes affecting insurance. East Underw 43:9+ Jl 24 '42
Rule life premiums as required savings; Canadian taxes on premium payments. Weekly Underw 147:5 Jl 4 '42
Senate formula would change mutual taxes. East Underw 43:24+ S 18 '42; Nat Underw 46:1 S 17 '42
Some effects of federal tax law on insurance. Nat Underw 46:2 N 5 '42
Spotlight is now on new U.S. tax proposals. Nat Underw (Life ed) 46:1+ Mr 13 '42
Survey shows desire for war clause uniformity; federal income tax provisions for life companies; abstracts. F. E. Huston. Nat Underw (Life ed) 46:17+ O 9 '42; East Underw 43:15-16 O 9 '42
Tax bill provides for equality of taxation. East Underw 43:28-9 Jl 24 '42; Nat Underw 46:2+ Jl 23 '42
Taxation of mutual casualty companies urged; abstracts. R. Paul. East Underw 43:36 Mr 6 '42; Nat Underw 46:27+ Mr 5 '42
Taxation of mutual cos. expected to raise $5,000,000 annually. East Underw 43:25 O 30 '42; Nat Underw 46:19 O 29 '42
Unauthorized reinsurance tax. Nat Underw 46:1 N 5 '42
Using life premium taxes to pay firemen's pensions in Oklahoma is upheld. Nat Underw (Life ed) 46:5 Ag 28 '42
Wants better deduction factor. L. K. Crippen. Nat Underw (Life ed) 46:1 Ap 17 '42
Western states O. K. allocation basis; marine allocation formula. Nat Underw 45:7, 8 D 11 '41
Would divide mutuals in applying U.S. tax. D. Kirkpatrick. Nat Underw 45:24+ D 11 '41; Same abr. Nat Underw (Life ed) 45:10 D 12 '41

See also
Insurance companies
—License tax

California

Caminetti upheld on chapter 9 suits. Nat Underw (Life ed) 46:18 Je 5 '42
Plans consolidation of chapter 9 firms. Nat Underw (Life ed) 46:3-4 Jl 10 '42
State of California is fined because of Caminetti's action. Nat Underw (Life ed) 46:4 Mr 20 '42

Florida

Commissioner seeks better service pledge. Weekly Underw 147:359 Ag 22 '42

Great Britain

British insurance in America. Economist 141:508-9 O 25 '41
British may now deal with any insurer in U.S. Nat Underw 46:3 My 7 '42
Comment on operations of the year; London & Lancashire. F. P. Rutter. Nat Underw 46:12-13 Jl 9 '42
Commercial Union; North British and Mercantile; Norwich Union Life; Norwich Union Fire; Legal and General. Economist 143:185-6 Ag 8 '42
Employers' liability assurance corporation, limited, Friends' provident and century life office; general meetings, London. Economist 142:767 My 30 '42
Equitable life assurance; Caledonian insurance company; annual general meetings. Economist 142:660, 661 My 9 '42
Insurance notes. Economist 142:614, 696+, 840; 143:26, 58, 120, 153+, 185-6, 249 My 2, 16, Je 13, Jl 4-11, 25-Ag 8, 22 '42
Insurance share index, Dec. 31, 1941, with comparative figures at six-monthly intervals since the end of 1939. Economist 142:156 Ja 31 '42
North British and mercantile insurance company, General accident fire and life assurance corporation, Royal London mutual insurance society; annual general meetings. Economist 142:623-4, 626 My 2 '42
Prudential; statement to the shareholders. Economist 142:614 My 2 '42
Scottish union and national insurance company, London assurance; annual general meetings. Economist 142:697 My 16 '42
Standard life insurance company, Alliance assurance company, limited, Commercial union assurance company, limited, Norwich union life insurance society, Norwich union fire insurance society, limited, Royal insurance company, limited; annual general meetings. Economist 142:729-32 My 23 '42
Sun life assurance society, Royal exchange assurance, Clerical, medical, and general life assurance society; annual reports. Economist 142:583-6 Ap 25 '42

Indiana

Sue to bar bringing Indiana special charter carriers under department. Nat Underw 46:12 Ap 9 '42

Maryland

Foreign corporation fees. Weekly Underw 146:372 F 14 '42

Mexico

General insurance law of Mexico. H. P. Crawford. For Comm W 7:8-9+ My 2 '42

Montana

Montana-Pearl case settlement effected. Ins Field (Fire ed) 71:12 Ag 20 '42

Vermont

Sponsors changes in Vermont procedure. R. T. Cole. East Underw 43:15 Jl 31 '42

INSURANCE company buildings

Ætna Fire purchases Woodbridge building at 100 William street. il East Underw 43:24 My 8 '42

Air conditioning to meet office-building needs; Metropolitan Life's home offices. il diags plan Power 86:234-6, 253-4 Ap '42

America Fore sells building. Nat Underw 46:3 F 12 '42

Columbus Mutual in new home office; Midland Mutual takes old quarters. il Nat Underw (Life ed) 46:2 O 23 '42

Compressed air provides twenty-one flexible services for office building; piped to all parts of the Metropolitan Life building; actuates radiator valves, powers dampers, blows soot, etc. il Power 86:180-2 Mr '42

Equitable in new Brooklyn home. il East Underw 43:3+ My 1 '42

Insurance company builds a home; construction of Employers Mutuals' new home office building, Wausau, Wis. il Nat Safety N 45:38+ My '42

National Fire moves into new home. R. B. Mitchell. Nat Underw 45:5+ D 4 '41

National Fire occupies new Hartford quarters. il Weekly Underw 146:768-9 Ap 4 '42; East Underw 43:22 Ap 3 '42; Spectator (Property ed) 7:10+ Ap 16 '42

New England Mutual moves into new home office building. il East Underw 42:3+ D 5 '41; Nat Underw (Life ed) 45:2+ D 5 '41

Office building for the New England mutual life insurance co.; views, plans, and construction outline. Arch Forum 76:383-90 Je '42

Office building for United benefit life insurance company, Mutual benefit health and accident association, Omaha, Neb.; views, plans and construction outline. Arch Forum 75:365-70 N '41

Second largest a.c. system in New England described; New England mutual life insurance company; abstract. F. Ellis. il Heat & Ven 39:60 My '42

Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

INSURANCE company of North America

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:20 O 17 '42

Feeling tense in Canada as rate decision nears; North America gives blueprint of plans. Nat Underw 46:5+ F 12 '42; East Underw 43:20 F 13 '42

150th anniversary. East Underw 43:21+ Ja 30 '42; Ins Field (Fire ed) 71:10 Ja 29 '42; Nat Underw 46:5+ Ja 29 '42; Weekly Underw 146:220-1, 266-7+ Ja 24-31 '42

INSURANCE conventions

Field conventions not opposed by Chamber of commerce of the United States. East Underw 43:5 F 6 '42

Metropolitan Life to omit its convention because of war. East Underw 43:1+ Ja 16 '42; Nat Underw (Life ed) 46:1+ Ja 16 '42

Offers ideas for post-war conventions. S. Welton. East Underw 43:29 Jl 31 '42

INSURANCE counselors. See Insurance advisers

INSURANCE departments

Educational program by Supt. E. L. Scheufler. Weekly Underw 147:301 Ag 8 '42

Election of Dewey forecast of change in New York Dept.; situation in Connecticut. East Underw 43:1+ N 6 '42

See also New York (state)—Insurance department

INSURANCE economics society of America

Accident men to build economics society. Weekly Underw 147:165 Jl 25 '42

Economics society elects officers. Nat Underw 46:19 O 8 '42

Economics society to do educational work. H. R. Gordon. Weekly Underw 147:36+ Jl 4 '42

Insurance economics society being revived. East Underw 43:28 My 8 '42

Insurance economics society completing plans for revival. East Underw 43:35 Ag 21 '42

O'Connor drafted by Insurance economics society. East Underw 43:41 N 6 '42; Nat Underw 46:21 N 5 '42

Taxes under Eliot bill would be $6,000,000,000 annually; objective of the Insurance economics society. W. G. Curtis. Weekly Underw 147:959+ O 24 '42

INSURANCE ethics

New type of cover brought to light by Iowa ban; substitute for recording of chattel liens. Nat Underw 45:21+ N 20 '41

INSURANCE institute of America

Annual conference, New York, Oct. 27. East Underw 43:1+ O 30 '42; Weekly Underw 147:1005+ O 31 '42

Insurance institute awards 1942 prizes. East Underw 43:22 Ag 7 '42

Insurance institute selects mail courses. East Underw 43:22 Jl 31 '42

INSURANCE law

Agent must be familiar with judicial interpretations. H. B. Thompson. Nat Underw (Life ed) 46:19 Ag 21 '42

Assessment of nonresident policyholders; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-8 Ja 8 '42

Challenges agents to quit hiding behind laws, rules. H. B. Montgomery. Nat Underw 46:6+ Mr 26 '42

Conflict of laws and life insurance contracts. C. W. Carnahan. 760p bibliog(p723-33) $12 Callaghan '42; Review. H. C. Spencer. East Underw 43:22 N 6 '42

Decision clarifies removal of cases to federal courts; stake of some companies is below minimum amount for removal. Nat Underw 45:5 N 27 '41

Eyes problem of assured cut off by war; companies should confer and prepare recommendations. G. M. Selser. Nat Underw (Life ed) 46:4 My 8 '42

How commissioners view enemy alien assureds. Spectator (Property ed) 7:12-16 Mr 5; 10-14+ Ap 30 '42; Same. Spectator (Life ed) 148:6-9+ Mr 12; 6-9, 14-15 My 7 '42

Important measures which became law in several states in 1942. Weekly Underw 146:1047, 1072-3 My 9 '42

Insurance broker-agent; their status under the laws of the various states. H. Law. 112p pa $1.50 Harrison Law, 44 Whitford av, Nutley, N.J. '41

Insurance court decisions. F. S. Knight, ed. Published in weekly numbers of Weekly underwriter

Insured's testimony contrary to statements previously given insurer held breach of cooperation clause. Weekly Underw 147:302 Ag 8 '42

Is insurer obliged to defend suit in this case? "alleging such injury." Weekly Underw 146:930+, 942, 1044 Ap 18-25, My 9 '42

Late notice not excused where investigation did not include consultation of injured party. Weekly Underw 146:410 F 14 '42

Legal aspects of juvenile insurance. C. L. Peterson. Nat Underw (Life ed) 46:5 My 29 '42

Legal section of American life convention discusses important subjects at annual muster. Nat Underw (Life ed) 46:2 O 9 '42

Legislatures were active in 1941. H. J. Drake. Weekly Underw 146:9+ Ja 3 '42

Officials again ponder unadmitted company problem. Nat Underw 46:26 Je 11 '42; Weekly Underw 146:1350 Je 13 '42

Problems of interstate business. V. L. Gallagher. East Underw 43:17+ Ja 16 '42; Same. Nat Underw 46:2 Ja 15 '42

Reinsurance; a preliminary treatise and a digest on some aspects of the law and practice of reinsurance and excess insurance. K. R. Thompson. 275p $4 Commercial clearing house '42

Scores passive attitude toward anti-compact laws; abstracts. B. W. Levit. Nat Underw 46:5 Mr 5 '42; Weekly Underw 146:592 Mr 14 '42

INSURANCE law—*Continued*

Unadmitted carrier can't be sued in assured's own state. Nat Underw 46:7 F 19 '42

See also

Insurance, Automobile—Financial responsibility laws

Insurance agents—Law

Insurance companies—Regulation

Savings banks—Insurance selling

also American bar association—Insurance section; Association of life insurance counsel

Alabama

Rights of insurer in subrogation suit defined by Alabama court. East Underw 43:31 Je 5 '42

California

California Insurance code, annotated, 1941. S. L. Weinstock, ed. 1444p $1 California. Supervisor of documents, Sacramento '41

General insurance digest; a synopsis of code, rules, practice in California. L. Venables, comp. 213p $2.50; pa $2 Lessel Venables, 604 25th st, Manhattan Beach, Los Angeles '42

Great Britain

War damage act, 1941. T. J. Sophian. 312p 10s 6d Jordan & sons, London '41

Iowa

Iowa deposit of American Life to Iowa policyholders. Nat Underw (Life ed) 46:18 Ag 7 '42

Much interest in Iowa decision; no notice of forfeiture given; policy held to be in effect at time of injury. Nat Underw 45:27 D 11 '41

Kentucky

Kentucky insurance laws are amended. Weekly Underw 146:649 Mr 21 '42

Maryland

Gontrum asks more rigid control law. Nat Underw 46:7 Ag 20 '42

Unauthorized cover; brokers required to file list of companies in Maryland. Weekly Underw 145:1456 D 27 '41

Massachusetts

Harrington replies to Carlsson letter on withdrawal of Pearl. Weekly Underw 145:1061+ N 8 '41

Massachusetts makes non-assessable rules. Weekly Underw 146:879+ Ap 18 '42

Massachusetts to waive state laws as war measure. Nat Underw 46:3 Je 4 '42

Mexico

General insurance law of Mexico. H. P. Crawford. For Comm W 7:8-9+ My 2 '42

Michigan

Rights of enemy aliens in court outlined under Michigan law. Nat Underw (Life ed) 46:8 Mr 13 '42

Minnesota

Retaliatory statute legal interpretation. Weekly Underw 147:1008 O 31 '42

New York (state)

Carriers get time to work out plan to avert rebating. Nat Underw 45:21 N 6 '41

Court of appeals decides for Pink; reverses lower court holding for Warner reciprocals. East Underw 43:26+ Je 12 '42

Majority and minority opinions in Northwestern National case. East Underw 43:22 Ag 14 '42; Nat Underw 46:2 Ag 13 '42

New York joint committee makes long report. East Underw 43:11 My 1 '42

N. Y. legislature is acting on insurance bills. Nat Underw 46:4+ Ap 9 '42

Pink loses decision in commission case. East Underw 43:14 Jl 31 '42

Where is a reciprocal insurance exchange doing business? digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:50-2+ S 17 '42

North Carolina

Commissioner Boney jolts insurance gyps. Ins Field (Life ed) 71:12 Mr 20 '42

Ohio

Holds Ohio law for mutualization is unconstitutional. Nat Underw (Life ed) 46:7 S 4 '42

Lloyd issues ruling on non-resident brokers. East Underw 43:30 Ja 23 '42

Texas

Texas court rules out mutuals on school lines. Nat Underw 46:3+ Ap 2 '42

Texas situation as to insurance for public bodies. Nat Underw 46:22 Ja 29 '42

Wisconsin

Holds State Farm, Wisconsin issue is state court matter. Nat Underw 46:32 My 21 '42

State Farm loses Wisconsin decision. Nat Underw 46:20 Ja 15 '42

Theory of membership fee pondered in Wisconsin case. Nat Underw 46:20 Ja 22 '42

INSURANCE libraries

Chicago library in new quarters. Weekly Underw 147:174 Jl 25 '42

Insurance library leaders meet; importance of work stressed. Nat Underw 46:8 Je 25 '42

Whitner president of Insurance library association of Atlanta. Weekly Underw 145:1270 D 6 '41

INSURANCE library association of Boston

Annual meeting, Oct. 9. East Underw 43:27 O 16 '42

INSURANCE of libraries. See Libraries—Insurance requirements

INSURANCE research

Research bureau essential to meet challenges. W. O. Wilson. Nat Underw 45:20 N 13 '41

INSURANCE society of New York

Faces wartime problems. East Underw 43:40 Ja 30 '42

INSURANCE surveys

Nationwide survey for Aetna reveals public believes insurance companies contribute to national welfare. M. Russell. Comm & Fin Chr 156:978 S 17 '42; Same. East Underw 43:16 S 18 '42; Same. Nat Underw 46:20 S 17 '42; Same. Nat Underw (Life ed) 46:4 S 18 '42

Reasons for buying analyzed; advertising firm's survey. Nat Underw (Life ed) 46:6 My 29 '42

Sound prospecting methods still bear fruit, Provident Mutual survey shows. W. K. Wise. Nat Underw (Life ed) 46:2 O 2 '42; Same. East Underw 43:12 O 2 '42

Volume business in life insurance comes from customers not prospects; research reveals 40 per cent of policy owners admit their insurance inadequate. J. B. Taylor. Weekly Underw 146:48-51, 75-7 sec 2 My 9 '42

War workers are increasing their life insurance; American service bureau survey. Nat Underw (Life ed) 46:3+ O 23 '42; East Underw 43:11 O 30 '42

INSURANCE trust councils

Insurance trust councils in estate planning. L. N. Woodward. Trusts & Estates 74:495-7 My '42

Life insurance trust council movement grows. F. L. Armstrong. Weekly Underw 146:83-5, 87+ sec 2 My 9 '42

Life insurance trust council report. Trusts & Estates 75:388 O '42

New life insurance trust councils. Trusts & Estates 74:173 F '42

INSURANCE trusts

Deed of trust held testamentary; proceeds payable to executor and subject to claims of creditors. Trusts & Estates 75:97-8 Jl '42

Modification of life insurance trusts; changes required by the war. H. B. Thompson. Trusts & Estates 75:245-8 S '42; Same abr. Nat Underw (Life ed) 46:8 Ag 28 '42

Optional settlements and trusts. R. S. Crampton. Trusts & Estates 74:393-4 Ap '42

Publicizing the life insurance trust. W. W. Delamater. Trusts & Estates 74:483-4 My '42

INSURANCE women

Just a little bit about the Nashville girls. E. Gesner. Ins Field (Fire ed) 71:18 Ja 15; 26 Ja 22 '42

See also

Insurance, Life—Agents—Women agents

Insurance agents—Women agents

also National association of insurance women

INTAKES

Investigations of methods and equipment used in stream gaging; intakes for gage wells. C. H. Pierce. diags U S Geol S Water-supply Pa 868-B:37-75, pl 28-31; pa 15c Supt. of doc. '41

South District filtration project, Chicago; lifting water from the lake. il Eng N 128: 1006-7 Je 18 '42

INTEGRAPHS

Differentiation with the cinema integraph. C. L. Pekeris and W. T. White. il Franklin Inst J 234:17-29 Jl '42

INTEGRATION

Analysis of systems with known transmission-frequency characteristics by Fourier integrals. W. L. Sullivan. bibliog Elec Eng 61:248-56 My '42

Integration in the complex plane. K. O. Friedrichs. Elec Eng 61:139-43 Mr '42

Some refinements in methods of graphical integration. L. H. Donnell. il diags Franklin Inst J 233:331-48 Ap '42

INTEGRATORS

All electric integrator for solving differential equations. R. N. Varney. il diags R Sci Instr 13:10-16 Ja '42

Applying the mechanical integrator to orifice meter measurement. J. L. Cottrell. il Pet Eng 13:71-2, 74 Je; 51-2, 54+ Jl '42

INTELLECTUAL cooperation

Havana conference of national committees on intellectual cooperation. Science 94:457-8 N 14; sup10 N 28; sup10 D 5 '41

Report to the National committee of the United States of America on international intellectual cooperation; second American conference. E. E. Ware. 109p pa 75c Nat. committee of the U.S. of Am. on international intellectual cooperation, New York '42

INTELLECTUAL property

See also

Copyright

Ideas in business

Patents

Trade marks

INTELLECTUAL workers

Compulsory insurance for salaried and professional workers in Bulgaria. W. Barbour. Monthly Labor R 53:1206-7 N '41

See also

Office workers

INTELLIGENCE tests. See Ability tests

INTER-AMERICAN conference of agriculture

Conference, 2d, Mexico City, July 6-16. Int Labour R 46:319-24 S '42

INTER-AMERICAN conference on social security

First Inter-American conference on social security, Santiago de Chile, Sept. 10-16. Int Labour R 46:606-19 N '42

Program of inter-American social security conference, September 1942. Monthly Labor R 55:238 Ag '42

INTER-AMERICAN defense board

Opening session in Washington on March 30. Comm & Fin Chr 155:1454 Ap 9 '42

INTER-AMERICAN escadrille

Inter-American escadrille assumes war role; strengthens ties of American republics. J. Foster, jr. il Aviation 41:213-14+ Je '42

INTER-AMERICAN highway. See Pan American highway

INTER-AMERICAN Indian institute

Inter-American Indian institute created. For Comm W 6:33 Ja 3 '42

INTERCHANGE of employees. See Employees, Interchange of

INTERCHEMICAL corporation

Listing of additional shares. Comm & Fin Chr 155:1920 My 18 '42

INTERCOMMUNICATING systems

Centralized sound in a naval station. S. Harman. il diags Radio N 28:20-2+ Ag '42

Induction-controlled intercom. W. T. Peterson. il diag Radio N 28:26-7+ S '42

Locomotive radios solve communication problem at Frances mine. il Coal Age 47:89-90 Ap '42

Paging system can also be used for private conversations; Executone. il Sci Am 166: 292-3 Je '42

Sound and the victory program; use of loudspeakers for intercommunication, air raid warning, music, etc. S. C. Milbourne. il Radio N 27:9+ Ap '42

Teleprinter network; L.N.E.R. installation. il Elec R (Lond) 130:799-800 Je 19 '42; Electrician 128:554-6 Je 5 '42

INTERCONNECTIONS of power systems. See Electric plants—Interconnection

INTERESSENGEMEINSCHAFT farbenindustrie aktiengesellschaft

I. G. Farben adds the Balkans to the Reich. K. Falk. il map For Comm W 9:4-9+ O 17; 8-10, 36-8 O 24 '42; Same abr. Chem Age (Lond) 47:489-92 D 5 '42

I. G. farbenindustrie raises capital to 900,000,000 marks. A. G. Abrahamson. Chem & Eng N 20:463 Ap 10 '42

No peace with I. G. Farben; case against the cartel system. map Fortune 26:104-7+ S '42

INTEREST

Accounting for interest during construction. J Account 73:466-7 My '42

Bank stocks; entry into World war II and the future of interest rates, etc. Comm & Fin Chr 154:1542 D 18 '41

Clear price tags for small loans. W. B. French. Banking 35:96+ N '42

Commercial loan rates; averages of rates charged customers by banks in principal cities; annual average, 1934-1941; monthly June 1938-Feb. 1939; quarterly March 1939-Dec. 1941. Fed Res Bul 28:45 Ja '42 [cont monthly]

Determinants of the rate of interest. H. Lyon. 71p $1 John Felsberg, 80 4th av, New York '42

Economists at odds on post-war trend in interest level. Nat Underw (Life ed) 46:1 Ja 9 '42

Four rights; competition in consumer loans. C. W. Phelps. Banking 35:32 O '42; Reply. A. A. Friedrich. 35:27+ N '42

Interest rates; discussion sponsored by American economic association. Bankers M 144: 140-1 F '42

Interest rates in the managed economy. M. Palyi. J Land & Pub Util Econ 18:28-35 F '42

Monthly interest charges on small credits. H. Haines. Bankers M 143:377-9 N '41

Net rate of interest earned on invested assets of life insurance companies, 1937-1941. Spectator (Life ed) 148:23 My 21 '42

NYSE changes interest rate rules on government bonds. Comm & Fin Chr 154:1120 N 20 '41

Open-market rates in New York city, monthly Nov. 1940-Dec. 1941. Fed Res Bul 28:45 Ja '42 [cont monthly]

Open market rates; United Kingdom, Germany, Netherlands, Sweden and Switzerland, yearly Oct. 1929-Oct. 1940, monthly Nov. 1940-Oct. 1941. Fed Res Bul 28:87 Ja '42 [cont monthly]

See also

Loans, Small—Laws and regulations

Savings deposits—Interest

Tables, etc.

Smith's 20th century interest tables, showing the interest on any sum from $1.00 to $10,000 from one day to five years. F. C. Robinson. 2d ed 143p $2-$3.25; indexed $2.75-$4 Twentieth century co., Chicago '41

INTERFACES

Adsorption potentials at gas-solid interfaces. A. A. Frost. Electrochem Soc Trans 82 (preprint 10):109-13 O '42

Contact angles at liquid-liquid-air interfaces. W. Fox. bibliog il J Chem Phys 10:623-8 O '42; Correction. 10:743 D '42

Effect of electrostatic forces on electrokinetic potentials. W. G. Eversole and W. W. Boardman. J Chem Phys 9:798-801 N '41

Migration of colloids through the interface between immiscible liquids under the influence of an electric field, and the formation of ultra-colloids. G. E. Gibson and L. Baldwin. J Chem Phys 10:247-8 Ap '42

Potential in a solution near a charged wall. W. G. Eversole. bibliog J Chem Phys 10:78 Ja '42

Study of glaze and body interface. C. W. Parmelee and P. E. Buckles. bibliog il Am Cer Soc J 25:11-15 Ja '42

See also

Electric double layer

INTERFACIAL contact angle. See Contact angle

INTERFACIAL tension

Contact angles at liquid-liquid-air interfaces. W. Fox. bibliog il J Chem Phys 10:623-8 O '42

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

Hydrometer-type float method for measuring surface and interfacial tensions. B. Vonnegut. R Sci Instr 13:82-3 F '42

Rotating bubble method for the determination of surface and interfacial tensions. B. Vonnegut. il R Sci Instr 13:6-9 Ja '42

Validity of Antonoff's rule. G. Antonoff. bibliog J Phys Chem 46:497-9 Ap '42

See also

Contact angle
Surface tension

INTERFERENCE. See Radio communication—Interference

INTERFERENCE (light)

Haidinger interferences in silvered mica. A. H. Pfund. il diags Opt Soc Am J 32:383-7 Jl '42

Interference phenomena with a moving medium. H. E. Ives and G. R. Stilwell. il diags Opt Soc Am J 31:14-24; 32:25-31 Ja '41, Ja '42

INTERFEROMETERS

Interference spectroscopy. K. W. Meissner. bibliog il diags Opt Soc Am J 31:405-27; 32:185-211 Je '41, Ap '42

Membrane interferometer manometer. J. M. Tobias. diags R Sci Instr 13:232-3 My '42

Systems of interferential devices. B. P. Ramsay and F. B. Pauls. bibliog Opt Soc Am J 32:78-83 F '42

INTERFEROMETERS, Sonic

Quartz plate with coupled liquid column as a variable resonator. F. E. Fox and G. D. Rock. diag Inst Radio Eng Proc 30:29-33 Ja '42; Abstract. Electronics 15:100+ Ap '42

INTERIOR decoration

Background for blueprints. il Mod Plastics 19:40-1+ F '42

Colors of furniture. P. Moon. Opt Soc Am J 32:293-8 My '42

Glass proves valuable as structural material; murals for Toledo, Ohio, public library. il Cer Ind 38:60-1 Je '42

Laminates and treated surfaces; partitions, table tops, desks, walls, panels, ceilings, etc. il Mod Plastics 19:50-1+ Ap '42

Restyling the old-time cozy corner with glass and mirrors. il diags Am Bld 64:29 Jl '42

Six interior details. il plans Arch Rec 92:55-60 S '42

Styling of PCA's executive offices. il Aero Digest 41:131-2+ Ag '42

See also

Architecture, Domestic
Carpets
Cars—Decoration
Furniture
House decoration
Mural painting and decoration
Paneling
Ship decoration
Trimmings (for drapery, upholstery, etc.)

INTERIOR walls. See Walls, Interior

INTERLOCKING devices

Effective safety device; interlocked guard for power-driven guillotines. il Elec R (Lond) 131:493 O 16 '42

Interlocked controls reduce explosion hazard; Denison HydrOilic powder-consolidating press. il Product Eng 13:11 Ja '42

INTERMEDIATE credit banks

Federal credit banks sell debenture issues. Comm & Fin Chr 155:40 Ja 1 '42

INTERMETALLIC compounds

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

INTERMODULATION (term)

Distortion tests by the intermodulation method. J. K. Hilliard. diags Inst Radio Eng Proc 29:614-20 D '41

INTERNAL combustion engines. See Gas and oil engines

INTERNAL revenue

1942 internal revenue collections at record. Comm & Fin Chr 156:372 Jl 30 '42

See also

Corporations—Taxation
Income tax
Inheritance tax

INTERNAL revenue law

Internal revenue code; an exact reprint of the Internal revenue code as amended by the revenue acts of 1939, 1940 and 1941; also an appendix containing provisions of all other laws affecting federal taxes and complete reprints of the revenue acts of 1939, 1940 and 1941. loose-leaf $3 Prentice-Hall '41

Review of recommendations for revision of the internal revenue code. T. G. Thurston. J Account 73:486-501 Je '42

INTERNATIONAL association of electrical leagues

Annual meeting, 6th, Washington. Elec W News ed 116:1643 N 22 '41

INTERNATIONAL association of governmental labor officials

Annual meeting, 27th, St Louis, Sept. 3-6. Monthly Labor R 53:1453-6 D '41

INTERNATIONAL association of industrial accident boards and commissions

Annual meeting, 28th, Winnipeg, Manitoba, Sept. 8-11. Monthly Labor R 53:1456 D '41

Report; review by E. R. Hayhurst. Ind Med 10:528-30 D '41

INTERNATIONAL association of insurance counsel

Insurance Counsel postpones convention indefinitely. East Underw 43:29+ Jl 24 '42

INTERNATIONAL association of printing house craftsmen

Craftsmen's convention, Grand Rapids, Mich. Aug. 9-12. Inland Ptr 109:30-6 S '42

Craftsmen's convention to pave way for new operating standards. H. B. Hillman. il Inland Ptr 109:61-6 Jl '42

INTERNATIONAL balance of payments. See Balance of payments

INTERNATIONAL brotherhood of electrical workers

Union push in REA. Business Week p60 Ja 24 '42

Unionists pro tem; A.F.L. electrical workers in Philadelphia put nonmembers on job. Business Week p66 Ja 10 '42

INTERNATIONAL brotherhood of teamsters, chauffeurs, warehousemen, and helpers of America

Racket law defined. Business Week p77 Mr 7 '42

Tobin snaps whip; tells locals rough-house stuff is out. Business Week p75-8 Jl 18 '42

INTERNATIONAL business machines corporation

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1408 Ap 6 '42

International Business Machines for war or peace. C. MacDonald. Barron's 22:18 Je 15 '42

INTERNATIONAL claim association

Annual meeting, 33d, Chicago, Sept. 14-15. East Underw 43:26 S 18 '42; Ins Field (Fire ed) 71:10 S 17 '42; Ins Field (Life ed) 71:5-6+ S 18 '42; Nat Underw 46:19+ S 17 '42; Nat Underw (Life ed) 46:1+ S 18 '42; Weekly Underw 147:597+ S 19 '42

INTERNATIONAL competition. See Competition, International

INTERNATIONAL conferences

See also

Pan American conferences

INTERNATIONAL cooperation

Action. L. Curtis. 71p pa 30c Oxford '42

American proposal; room for democracy and economic freedom in a shrunken world if we agree with Britain to let it expand. Fortune 25:59-63 My '42; Discussion. S. A. Stritch. 25:112 Je '42

Bases of a world commonwealth. C. B. Fawcett. 167p 7s 6d Watts & co., London '41

Blueprint for our future; resolutions of Rio no final act. W. C. Taylor. il For Comm W 6:3-7 F 28 '42

Canadian-United States wartime co-operation to have lasting consequences. Bankers M 144:535-6 Je '42

Coffee; volatile brew of cooperation or competition. W. LaVarre. il For Comm W 5:4-6+ N 15 '41

Coming age of world control; the transition to an organized world society. N. Doman. 301p $3 Harper '42

Conditions of peace. E. H. Carr. 282p $2.50 Macmillan '42

Cooperation necessary to win peace. S. Welles. Comm & Fin Chr 156:29 Jl 2 '42

Economic basis for world peace; a rational challenge to war and dictatorship. J. Torpats. 222p $3 John Felsberg, 80 4th av, New York '41

Economic front of the western hemisphere during the war and after. V. L. Horoth. il Mag of Wall St 70:323-6 Jl 11 '42

Foundations of inter-American solidarity. L. Duggan. For Comm W 6:8-9+ Ja 10 '42

Inter-American escadrille assumes war role; strengthens ties of American republics. J. Foster, jr. il Aviation 41:213-14+ Je '42

Mexico City farm talks praised; Inter-American conference on agriculture. C. R. Wickard. Comm & Fin Chr 156:374 Jl 30 '42

Newtopia, the world we want. P. W. Wilson. 219p $2 Scribner '41

Phœnix; a summary of the inescapable conditions of world reorganisation. H. G. Wells. 192p 8s Secker & Warburg, London '42

Potential of inter-American economics. C. A. McQueen. map Elec Eng 61:25-30 Ja '42

Strategy for democracy. J. D. Kingsley and D. W. Petegorsky. 342p $3 Longmans '42

There's no limit to material prosperity; address at National foreign trade convention. S. Welles. For Comm W 9:3+ O 17 '42

United nations of the world; a treatise on how to win the peace. H. T. Muzumdar. 288p bibliog(p249-80) $2.50 Universal pub. co, 20 Vesey st, New York '42

U.S. and Canadian unification is expected; plan would coordinate all newsprint mills on continental basis. Paper Tr J 115:9 O 29 '42

United States economic mission to Bolivia. For Comm W 5:29 D 27 '41

World's destiny and the United States, a conference of experts in international relations. H. Bonnet, comp. 309p pa 50c World citizens assn, Chicago '41

See also

Economic planning, International
Intellectual cooperation
International federation
League of nations
Pan Americanism
Patents—International aspects
Reconstruction (World war, 1939-)
United nations

INTERNATIONAL courts. See Courts, International

INTERNATIONAL crop improvement association

Annual meeting plans. Science 94:510 N 28 '41

INTERNATIONAL ethics

After chaos back to political science. J. Masaryk. Ann Am Acad 222:103-8 Jl '42

INTERNATIONAL federation

Action. L. Curtis. 71p pa 30c Oxford '42

Decision. L. Curtis. 76p pa 30c Oxford '42

Educating public opinion for world organization. L. Dolivet. Ann Am Acad 222:84-9 Jl '42

Eight points of post-war world reorganization. J. E. Johnsen, comp. Ref Shelf v 15, no 5:1-126 bibliog(p103-26) '42 (90c)

European federations. Economist 142:94-5 Ja 24 '42

Federalism and freedom; or, Plan the peace to win the war. G. Young. 204p $2.50 Oxford '42

For a total victory. M. Kwapiszewski. Ann Am Acad 222:54-9 Jl '42

Great republic; a historical view of the international community and the organization of peace. R. Hoffman. 167p $2.25 Sheed & Ward, New York '42

Lost peace; a personal impression. H. Butler. 246p $2.75 Harcourt '42

Polish-Czech federation. Economist 142:141-2 Ja 31 '42

Postwar political organization of the world. C. J. Hambro. Ann Am Acad 222:109-16 Jl '42

Post-war worlds. P. E. Corbett. 211p bibliog(p197-9) $2 Inst. of Pacific relations, New York '42

Toward international organization. H. Robinson and others. 218p $2 Harper '42

Towards a united states of Europe, proposals for a basic structure. A. C. Weinfeld. 52p bibliog(p50-2) $1 Am. council on public affairs, Washington, D.C. '42

United nations of the world; a treatise on how to win the peace. H. T. Muzumdar. 288p $2.50 Universal pub. co, 20 Vesey st, New York '42

INTERNATIONAL federation of commercial travelers insurance organizations

Annual convention, 43d, Quebec. Weekly Underw 147:506+ S 5 '42; East Underw 43:26 S 11 '42

INTERNATIONAL finance. See Finance, International

INTERNATIONAL harvester company

Annual report. Comm & Fin Chr 155:737 F 17 '42

Farms yield priceless scrap metal for war needs; Harvester company, using advertising to back up extensive collection program. il Ptr Ink 198:28+ Mr 13 '42

Harvester's own; tank maintenance battalion of 859 men recruited entirely from company's rolls. Business Week p90 Jl 25 '42

Harvesting scrap; I.H.C. enlists its army of dealers. il Business Week p28 F 21 '42

Huge group plan provides for paid-up values. Nat Underw (Life ed) 45:1+ N 28 '41; East Underw 42:8 D 12 '41

Stock offered. Comm & Fin Chr 155:1600 Ap 20 '42

Study effect of insurance plan in group field. Nat Underw (Life ed) 45:1+ D 5 '41

INTERNATIONAL hydro-electric system

Bond interest cut likely. L. Edwards. Barron's 22:19 Je 8 '42

Earnings, 1940 and 1941. Comm & Fin Chr 156:605 Ag 17 '42

INTERNATIONAL hydro-electric system—*Cont.*
Files liquidation plan. Comm & Fin Chr 156:782-3 Ag 31 '42
International files dissolution plan. Elec W News ed 118:852 S 12 '42
International Hydro-electric ordered to dissolve. Pub Util 30:240-1 Ag 13 '42
SEC directs dissolution. Comm & Fin Chr 156:342-3 Jl 27 '42
SEC orders International Hydro-electric dissolved. Elec W News ed 118:374 Ag 1 '42
To pay debenture interest due Oct. 1; completion of liquidation program will need considerable time. Comm & Fin Chr 156:1050-1 S 21 '42

INTERNATIONAL labor conference
International labor conference, New York, Oct. 27-Nov. 5. Monthly Labor R 53:1448-50 D '41
President at world labor conference calls on capital and labor for sacrifices; text of address at I.L.O. conference. Comm & Fin Chr 154:1025+ N 13 '41
Record of proceedings. 201p $4; pa $3 Int. labor office '42

INTERNATIONAL labor office
I.L.O. and plans for a people's peace; the London meeting of the Emergency committee, April 1942. Int Labour R 46:1-43 Jl '42

Library

Development of the International labour office library. J. F. Saunders. Special Lib 33:290-4 O '42

INTERNATIONAL labor organization
Developing program of the ILO. C. Goodrich. Ann Am Acad 224:183-9 N '42
International labor conventions, their interpretation and revision. C. H. Dillon. 272p bibliog(p260-5) $3 Univ. of North Carolina press, Chapel Hill '42
London meeting of I.L.O. April 1942. C. Goodrich. Monthly Labor R 54:1320-2 Je '42
Program. C. Goodrich. Monthly Labor R 54:305-17 F '42
Social objective in wartime and world reconstruction; the New York conference. Int Labour R 45:1-24 Ja '42

INTERNATIONAL law
Crisis of civilization. A. Cobban. 272p $4 Nelson (Toronto) '41
Foundations & the future of international law. P. H. Winfield. 125p $1.10 Macmillan (Toronto) '41
To popularize for lawyers the study of American international law. J. H. Wigmore. 4v v1-2 47p; 77p pa v 1 50c; v2 $1 Am. bar assn, 1140 N. Dearborn st, Chicago '41-'42

See also
Aliens
Courts, International
Enemy property
Freedom of the seas
International relations
Labor laws and legislation, International
League of nations
Maritime law
Neutrality
Trading with the enemy

Bibliography

Analytical index to the American journal of international law, and supplements, volumes 15 to 34 (1921-1940) and the Proceedings of the American society of international law, 1921-1940. G. A. Finch. 645p $5 Am. soc. of international law, Washington, D.C. '41

INTERNATIONAL law, Private
See also
World war, 1939—
Freezing of assets

INTERNATIONAL machine tool corporation
Annual report. Comm & Fin Chr 155:825-6 F 24 '42

INTERNATIONAL minerals and chemical corporation (formerly International agricultural corporation)
Leading fertilizer producer now turning out magnesium metal as well. Barron's 22:21-2 S 21 '42
Listing. Comm & Fin Chr 155:1600-1 Ap 20 '42
Merger consummated; Union potash and chemical company. Comm & Fin Chr 155:1513 Ap 13 '42
To merge; Union potash & chemical co.; terms of exchange for stocks. Comm & Fin Chr 155:920 Mr 2 '42

INTERNATIONAL mining corporation
SEC refuses to grant order declaring company primarily engaged in business other than investment. Comm & Fin Chr 156:1151 S 28 '42

INTERNATIONAL nickel company of Canada
Annual report for 1941. Comm & Fin Chr 155:1408 Ap 6 '42
Another look at your company. Mag of Wall St 70:232 Je 13 '42
Plans $35 million expansion program. Comm & Fin Chr 155:1837 My 11 '42

INTERNATIONAL paper company
Address at annual meeting. R. J. Cullen. Paper Tr J 114:7, 13-14 My 21 '42
Income for 1941 is $218,149,111. Paper Tr J 114:7, 12 Ap 16 '42

INTERNATIONAL relations
Anglo-American responsibilities. M. W. Ball. il Explosives Eng 20:99-104 Ap '42
Background of world affairs. J. Emery. 324p bibliog(p311-18) $1.72 World book co, Yonkers-on-Hudson, N.Y. '42
Better international economic relations vital. C. Hull. For Comm W 7:38 My 23 '42; Excerpt. Comm & Fin Chr 155:1947 My 21 '42
Diplomacy and God. G. Glasgow. 237p $2.50 Longmans '41
Employment held principal problem of post war period of readjustment. J. A. Farrell. Comm & Fin Chr 155:2039 My 28 '42
Foundations of modern world society. L. A. Mander. 910p $4.25 Stanford univ. press '41
Future of world trade. J. A. de Haas. Harvard Business R 21 no 1:100-8 [S] '42
How to win the peace. C. J. Hambro. 384p $3 Lippincott '42
In the public mind; we compare notes with Canada and check the results against the opinions of America's business and intellectual leaders. Fortune 25:8-10+ Je '42
Law and peace in international relations. H. Kelsen. 181p $2 Harvard univ. press '42
National governments and international relations. F. A. Magruder. rev ed 634p, 30p $1.80 Allyn and Bacon, New York '42
New deal for all nations. C. L. Hsia. Ann Am Acad 222:124-32 Jl '42
Organization of peace. F. C. Nájera. Ann Am Acad 222:60-73 Jl '42
Psychopolitics. I. A. Richards. Fortune 26:108-9, 114, 116 S '42
War and Anglo-American relations. C. B. Morrison. Power Pl Eng 46:59 O '42
War and survival. 149p $1.50; pa $1 Univ. of California press, Berkeley '41

See also
Aeronautics, Commercial—International aspects
Aliens
Commercial treaties and agreements
Courts, International
Disarmament
Economic planning, International
Freedom of the seas
Geopolitics
International cooperation
International law
Labor laws and legislation, International
League of nations
Maritime law
Munitions
Pan Americanism
Pan Pacific relations
Peace
Reconstruction (World war, 1939-)
Refugees
Trading with the enemy
United nations
War
World politics

also subdivision Foreign relations under names of countries, e.g. Germany—Foreign relations; Great Britain—Foreign relations; Japan—Foreign relations; United States—Foreign relations

Bibliography

World crisis; a reading list. 15p Vassar college, Poughkeepsie, N.Y. '41

INTERNATIONAL relations—*Continued*

Societies

Directories

American agencies interested in international affairs. R. Savord, comp. 200p $2 Council on foreign relations, 45 E. 65th st, New York '42

INTERNATIONAL scholarships and fellowships. See Scholarships and fellowships, International

INTERNATIONAL shoe company
Annual report. Comm & Fin Chr 155:157 Ja 10 '42

INTERNATIONAL telephone and telegraph corporation
Annual report. Comm & Fin Chr 155:2367 Je 22 '42
Earnings, 1940 and 1941. Comm & Fin Chr 155:1601 Ap 20 '42
Subsidiaries establish $10,000,000 credit. Comm & Fin Chr 156:1239 O 5 '42
$25,000,000 credit. Comm & Fin Chr 155:1920 My 18 '42
Utility properties in the Orient. O. Ely. Pub Util 29:35-6 Ja 1 '42

INTERNATIONAL trusts. See Trusts, Industrial—International trusts

INTERNATIONAL utilities corporation
Annual report. Comm & Fin Chr 155:1837-8 My 11 '42
Files recapitalization proposal with SEC. Comm & Fin Chr 156:1503 O 26 '42

INTERNATIONALISM
After chaos back to political science. J. Masaryk. Ann Am Acad 222:103-8 Jl '42
World we approach. N. Doman. Ann Am Acad 222:90-102 Jl '42

INTERNATIONALISM, Education in
Educating public opinion for world organization. L. Dolivet. Ann Am Acad 222:84-9 Jl '42

INTERNMENT camps. See Evacuation centers

INTERNSHIP. See Hospitals—Staff

INTERPLEADER
Two claimants for fund. C. R. Rosenberg, jr. Burroughs Clearing House 27:29 O '42

INTERREFLECTIONS. See Reflection (optics)

INTER-SOCIETY color council
Annual meeting, 11th, New York, Feb. 26-27. Am Dyestuff Rep 31:125-8 Mr 16 '42
Color nomenclature in qualitative analysis; the Inter-Society color council nomenclature. L. P. Biefeld and M. Griffing. bibliog J Chem Educ 19:282-6 Je '42
1941 activities. Am Dyestuff Rep 31:213 Ap 27 '42
Report of TAPPI delegates to the Inter-society color council; with proposed American defense emergency standard for the specification and description of color. J. L. Parsons. bibliog Paper Tr J 114:44-6 Mr 5 '42

INTERSTATE commerce
Banks engaged in interstate commerce within meaning of National labor relations act. Banking 35:44 N '42
Contract carrier service ceiling set. Oil Paint & Drug Rep 141:5 Je 29 '42
Elimination of state trade barriers urged at Washington conference on war restrictions. Comm & Fin Chr 155:1948 My 21 '42
Federal coöperation with the states under the commerce clause. J. E. Kallenbach. 428p bibliog(p385-94) $4 Univ. of Michigan press, Ann Arbor '42
Federal trade law and practice before the Federal trade commission, United States District courts, United States Circuit courts of appeals and United States Supreme court in Federal trade commission cases. H. W. Beer. 999p $15 For sale by Baker, Voorhis, 30 Broad st, N.Y. '42
Freeing the trucks; relief from conflicting state regulations is sought. Business Week p54+ My 2 '42
Freight forwarders bill approved by Congress. Oil Paint & Drug Rep 141:7 My 18 '42
Governmental marketing barriers. F. R. Strong, ed. (Law and contemporary problems, v. 8, no.2) p207-414 pa $1 School of law, Duke univ, Durham, N.C. '41
How to avoid Labor board troubles; know the law on interstate commerce. Brick & Clay Rec 99:17 N '41
Interstate character of pick-up and delivery service at terminals. Pub Util 28:787-8 D 4 '41
Interstate trade barriers and Michigan industry, 1941. E. H. Gault and E. S. Wolaver. U S Bur For & Dom Com, Economic Ser 15:1-42; pa 10c Supt. of doc. '42
Intrastate commerce subject to U.S. control if necessary in making effective regulation of interstate commerce. Oil Paint & Drug Rep 141:3+ F 9 '42
Pleads for practical, factual handling of interstate commerce. V. L. Gallagher. Nat Underw 46:2 Ja 15 '42; Same. East Underw 43:17+ Ja 16 '42
Upholds U.S. right to regulate milk. Comm & Fin Chr 155:672 F 12 '42
Wage and hour law coverage extended; employees engaged in the operation and maintenance of a loft building in which large quantities of goods are produced for interstate commerce. Monthly Labor R 55:102-3 Jl '42
Wage-hour wins; building service workers are in interstate commerce. Business Week p69 Ja 10 '42
Will war raze the state line trade barriers? H. Corey. Pub Util 30:417-24 S 24 '42

See also
Federal trade commission
Railroad law
Railroads and state—United States
Restraint of trade

INTERSTATE commerce commission
Annual report. Ry Age 112:164-6 Ja 10 '42
Arnold vs. ICC; sides with complainant in suit over trucking merger. Business Week p23-4 Ag 1 '42
I.C.C. adopts new rules of practice. Ry Age 113:281+ Ag 15 '42
I.C.C. staff exhibits in general rate and classification probe. Ry Age 113:464 S 19 42
New rules for I.C.C. practice. Ry Age 112:308 Ja 31 '42
Trends in federal regulation of motor carriers. J. C. Nelson. bibliog J Land & Pub Util Econ 18:366-72 Ag '42
Uniform freight classification and the Interstate commerce commission. F. L. Barton. map J Land & Pub Util Econ 18:312-22 Ag '42

Bureau of locomotive inspection

Annual report. il Ry Mech Eng 116:56-61 F '42; Same cond. Ry Age 112:208-10 Ja 17 '42

Bureau of motor carriers

ICC news. Published in monthly numbers of Bus transportation

Bureau of safety

Annual report. Ry Age 112:211-12 Ja 17 '42; Ry Mech Eng 116:65-6 F '42

INTERSTATE compacts
See also Interstate oil compact commission

INTERSTATE oil compact commission
Interstate oil compact quarterly bulletin. Published by the Interstate oil compact commission, 437 State Capital bldg, Oklahoma City, Okla.
Meeting, Chicago. Oil & Gas J 41:28 O 8 '42
Meeting, Lexington, Ky. June 19-20. Oil & Gas J 41:55-7 Je 25 '42; Nat Pet N 34:22+ Je 24 '42
Meeting, Little Rock, Ark. Oil & Gas J 40:15+ Ap 2 '42
Meeting, Oklahoma City. Oil & Gas J 40:66+ D 25 '41
Oil Compact widens scope of activities. Nat Pet N 33:4 D 24 '41

INTERSTATE underwriters board
I.U.B. premiums gained; officers reelected. Nat Underw 46:6 Ja 29 '42; Weekly Underw 146:321 F 7 '41

INTERSTATE underwriters board—*Continued*

Nationwide rating proposal; suggestion of New York department in connection with report on I.U.B. Nat Underw 46:3 Ag 20 '42; East Underw 43:1+ Ag 14 '42

INTERSTELLAR space. See Space, Interstellar

INTERURBAN railroads

See also

Electric railroads
Street railroads

INTERVIEWING

How to lick the problem of interview cheating; research's field worker dilemma. R. N. King. Adv & Sell 35:46 O '42

Interviewing; its principles and methods. A. Garrett. 123p pa $1 Family welfare assn. of America, 122 E. 22d st, New York '42

See also

Gallup surveys

INTESTINES

Diseases

Methods of water treatment and laboratory control; data on relation of water supply to occurrence of intestinal diseases. Am Water Works Assn J 33:2051-60 N '41

INTOXICATION. See Drunkenness

INTRACOASTAL waterway. See Waterways—United States

INVENTIONS

Flash of genius; reprinted from Journal Patent office society. J. N. Nielsen. Chem & Eng N 20:1234 O 10 '42

For amateur inventors only; your invention and how to protect it. J. R. Darnell. Power Pl Eng 46:70-2 Je '42

Guiding inventors; Crosby research foundation. Business Week p59-60 Ag 8 '42

International role of science in time of war and peace. C. P. Coe. il For Comm W 5:3+ N 29 '41

Invention for defense. L. B. Lent. Mech Eng 64:20-2 Ja '42

Invention; war inspires—law protects; inventions in aid of defense. G. V. Woodling. il diags Machine Design 14:55-9 F '42

Inventions lead to victory. L. B. Lent. Power Pl Eng 46:47 Ag '42

Inventors and some inventions. H. W. Stowell. il Comp Air M 47:6863-5 O '42

It works like this. B. Leyson. 224p $2.50 Dutton '42

Joseph Bramah and his inventions. H. W. Dickinson. Engineering 153:396, 415-16 My 15-22 '42

Mobilizing the nation's inventive brains; description of the aims and methods of the National inventors council. Elec Eng 61:51-3 Ja '42

National inventors council; fields in which new ideas would be welcome. Science 95:12 Ja 2 '42

Patent laws would kill invention incentive. Comm & Fin Chr 156:814 S 3 '42

Selling inventions with and without patents. H. J. E. Metzler. 77p $1 Henry J. E. Metzler, 11 W. 42d st, New York '41

Should we change the patent law? Am Mach 86:1218-20 O 29 '42

Swords and plowshares; some of our great implements of peace originally were weapons of war. J. Early. il Barron's 22:3 Ja 5; 40 Ja 12; 8 Ja 19; 9 Ja 26; 9-10 F 2; 7 F 9; 8 F 16; 9 F 23; 7 Mr 2; 7 Mr 16; 20 Mr 23 '42

War! stimulus for inventions. A. Toombs. Radio N 27:13+ Je '42

See also

Patent laws and legislation
Patents

INVENTIONS, Employees'

Union's research bonus; patents developed in the laboratories of Shell development co. Business Week p28 Jl 4 '42

Who owns the patent? inventions of bus company employees. L. T. Parker. Bus Transportation 21:217-19 My '42

INVENTORIES

Auditor's report and the banker. P. F. Gray. J Account 72:527-9 D '41

Business and the war; a front line view of effects and trends. W. Mitchell, jr. and W. Hayes. Dun's R 50:13-19 S '42

Business inventories in the war period. F. C. Murphy and L. J. Paradiso. Survey of Cur Business 22:6-12+ Je '42

Canadian redistribution of Dormant stock into channels valuable to the war effort. For Comm W 8:18 S 12 '42

Commercial credit analysis; appraising the soundness and liquidity of inventories. E. F. Gee. Credit & Fin Management 44:15-18+ Ja '42

Commercial credit analysis; methods of evaluating inventories. E. F. Gee. Credit & Fin Management 44:12-15+ Mr '42

Commercial credit analysis; the further analysis of inventories. E. F. Gee. Credit & Fin Management 44:12-14+ F '42

Confirmation of inventories in public warehouses; report of a subcommittee of American institute of accountants. J Account 74:446-7 N '42

Controlling stocks of cotton print cloth; some problems of inventory management in the manufacture of multi-purpose gray goods. H. S. Davis. 66p pa 50c Textile foundation, Washington, D.C. '41

Controlling stores inventories; experience of a ship-outfitting company. C. E. Hill. Factory Management 100:110+ Ag '42

Crucial inventory; tabulation showing inventory, cash, and net working capital for some 60 large companies. Business Week p72-3 Mr 28 '42

Drilling-rig inventories save truck mileage. Oil & Gas J 41:53 Jl 16 '42

Estimates of annual business inventories, 1928-41. W. D. Hance. Survey of Cur Business 22:13-19 S '42

Indexes of the value of manufacturers' inventories at the end of each month; revised series, Dec. 1938-Nov. 1941. Survey of Cur Business 22:22 Ja '42

Inventories, 1941. Survey of Cur Business 22:33-4 F '42

Inventory control in and after the war emergency period. J. A. Black. il Dun's R 50:9-12 S '42

Inventory control to fit new regulations; Raybro electric company, Tampa, Fla. L. H. Houck. il Am Business 12:10-12 O '42

Inventory guides in cotton fine-goods manufacture; an analysis of mill experience in producing staple and styled gray goods. G. W. Taylor. 46p pa 50c Textile foundation, Washington, D.C. '41

Inventory management in rayon weaving. G. A. Dash, jr. 47p pa 50c Textile foundation, Washington, D.C. '41

Inventory order. Business Week p48+ N 7 '42

Inventory problems answered; limitation order L-63. Oil Paint & Drug Rep 141:3+ Je 8 '42

Inventory procedures in the chemical industry. M. D. Moersh. Chem Ind 49:638-41 N '41

Inventory thaw; WPB materials redistribution branch. Business Week p14-15 O 24 '42

Inventory trends in textile production and distribution; an appraisal of experience during the 1930's. H. S. Davis. 70p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

Inventory valuation and periodic income. C. T. Devine. 195p $3 Ronald press '42

Larger inventories with field warehousing. Bankers Mo 59:448-9 O '42

Minimizing inventory losses in the men's wear division of the wool-textile industry. R. B. Armstrong. 40p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

Omission of inventory taking in defense industries. J Account 73:190-1 F '42

Problem of rising inventories. Nat City Bank p129-30 N '41; Same abr. Credit & Fin Management 43:32 D '41

Recent inventory accumulation. Survey of Cur Business 22:5-7 Ja '42

Rein on inventory; manufacturers' stocks; tabulation. Business Week p88-90 S 5 '42

INVENTORIES—*Continued*
Research in inventories. W. A. Staub. J Account 73:297-310 Ap '42
Stock and production policies in full-fashioned hosiery manufacture. G. W. Taylor and G. A. Dash, jr. 35p pa 50c Textile foundation, Washington, D.C. '41
Stock control methods. H. W. Huegy and R. V. Mitchell. (Business studies, 1) 29p Univ. of Illinois, College of commerce and business administration, Bur. of economic and business research, Urbana '42 [pa 10c]
System of inventory control of aircraft materials and parts. B. F. Smith. Aero Digest 40:58, 61-2 Ap '42
This sales control plan keeps tabs on a line of 45,000 items; United Motors Service operates a perpetual inventory system on stocks clearing through its twenty branches. Sales Management 50:52+ Ap 20 '42
Tool exchange; Blackhawk and Imperial Brass serve as clearing houses for scarce items on shelves of well-stocked distributors. Business Week p52+ O 31 '42
Use of credit for accumulation of inventories. M. S. Eccles. Fed Res Bul 28:645-6 Jl '42
Utilities rid excess inventories by sales. Elec W 118:775 S 5 '42
Valuing frozen stocks is problem. S. J. Broad. Nat Underw 46:1 O 1 '42
WPB approves plan to regulate inventories. Comm & Fin Chr 156:894 S 10 '42; Excerpts. Oil Paint & Drug Rep 142:3+ S 21 '42
WPB inventory committee report favors control plan. Oil Paint & Drug Rep 142:3+ N 2 '42
War program and wholesale distribution. E. V. W. Read. Oil Paint & Drug Rep 142:53+ O 5 '42
What to do about denim stocks. H. S. Davis. 34p pa 50c Textile foundation, Washington, D.C. '41
What WPB inventory control means. Barron's 22:12 O 26 '42
Wholesalers' sales and inventories, January 1942. Credit & Fin Management 44:48 Mr '42 [cont monthly]

See also
Purchasing
Retail trade—Stock
Stores systems

Accounting

Comments on Lifo for department stores. R. E. North. J Account 73:311-13 Ap '42
Inventory fixer; stores try novel way of applying LIFO method in valuing stocks. Business Week p50+ Ap 11 '42
Last call for last-in; how to measure risk of continuing old inventory systems. A. Cotter. Barron's 21:7 D 15 '41
Last-in, first-out inventory basis; report by American institute of accountants committee on coöperation with controllers' congress of the National retail dry goods association. J Account 73:146-54 F '42
Unreliability of arithmetical illustrations to prove, or even to explain, an economic theorem. H. R. Hatfield. J Account 74:355-7 O '42

INVENTORIES, Retail. See Retail trade—Stock

INVENTORS
Inventors and some inventions. H. W. Stowell. il Comp Air M 47:6863-5 O '42

INVENTORS council, National. See National inventors council

INVERT sugar. See Sugar, Invert

INVERTASE
Effect of colored ions on the photo-inactivation of invertase. H. Lardy and T. F. Anderson. Science 95:330-1 Mr 27 '42

INVERTEBRATES, Fossil
Larger invertebrate fossils of the Navarro group of Texas (exclusive of corals and crustaceans and exclusive of the fauna of the Escondido formation). L. W. Stephenson. 641p $4.25 Bur. of economic geology, Univ. of Texas, Austin '41

INVESTMENT advisers
Investment advisory contracts not legally salable: SEC. Comm & Fin Chr 155:1940 My 21 '42
Investment review service; factors in determining extension to safekeeping customers. J. Moxon. Trusts & Estates 73:623-4 D '41

INVESTMENT bankers association of America
Administrative review committee looks at the IBA. Inv Banking 12:16-19 Je '42
Annual convention, 30th. Comm & Fin Chr 154:1433+ D 11 '41
Annual meeting, 31st, New York, Oct. 19-20. Comm & Fin Chr 156:1425+, 1513+ O 22, 29 '42; Inv Banking 13:5-24 D '42
Governors elected by the groups. pors Inv Banking 12:18-26 O '42
IBA opposes price disclosure rule as not in public interest, impractical, unworkable. Comm & Fin Chr 156:1617, 1628-9, 1698, 1708-9 N 5, 12 '42
Meeting of the Board of governors, Rye, N.Y. May 22-24. Inv Banking 12:13-23 Je '42
Nominated for president, J. N. Whipple; vice presidential nominees. Inv Banking 12:14-17 O '42

INVESTMENT banking
An answer to—"Do we stay in business?" N. P. Frye. Inv Banking 12:26-30 Je '42
Debts and taxes threaten free enterprise. E. F. Connely. Comm & Fin Chr 154:1433+ D 11 '41
Declares investment business paramount to nation; urges simplifying SEC procedure. J. S. Fleek. Comm & Fin Chr 156:1513+ O 29 '42; Excerpts. Inv Banking 13:25-8 D '42
Eliminating needless overhead to preserve machinery of financial economy. G. Purcell. Comm & Fin Chr 155:1322+ Ap 2 '42
Financing industry, now and after the war. A. H. Gordon. Inv Banking 12:9-12 O '42
How Bankamerica checks and controls a force of 75 field men. W. H. Livingstone. Sales Management 50:54, 56-7 Mr 15 '42
Investment banking in the war. Inv Banking 12:2-5 Je '42
Morgan Stanley & co. will be partnership. Comm & Fin Chr 154:1314 D 4 '41
Myth of the security affiliate. G. W. Edwards. Am Statis Assn J 37:225-32 Je '42
Participations declined in 1941 issues says SEC. Comm & Fin Chr 155:1058-9 Mr 12 '42
SEC issues data on 1941 securities flotation cost. Comm & Fin Chr 156:178 Jl 16 '42
War time investment banking. E. F. Connely. Inv Banking 12:24-6 Je '42
War time investment banking; abstract. J. S. Fleek. Inv Banking 12:12-13 O '42

See also Investment bankers association of America

INVESTMENT companies

See also
Investment banking
Investment trusts

INVESTMENT counsel. See Investment advisers

INVESTMENT trusts
Case for diversification and supervision. Comm & Fin Chr 155:1695+ Ap 30 '42
50 stocks investment trusts prefer. Barron's 22:18 F 16 '42
How big investors view the market; trend of cash holdings among various funds mixed. Barron's 22:18 O 26 '42
How have the investment companies stood the test of the war? Comm & Fin Chr 155:1767 My 7 '42
How investment companies view the market. L. Tomlinson. Barron's 22:8 Ag 10 '42
How investment trusts view the market; prefer consumer stocks to armament issues. L. Tomlinson. Barron's 22:8 F 2 '42
Inflation. Comm & Fin Chr 156:359 Jl 30 '42
Inner workings of investment company management; studies of the leverage investment company. Comm & Fin Chr 155:1527+ Ap 16 '42
Investment companies view the market; hold varying opinions on rail bonds; auto and equipment shares favored. L. Tomlinson. Barron's 22:18 My 4 '42

INVESTMENT trusts—*Continued*

Investment trusts and funds from the investor's point of view. E. C. Harwood and R. L. Blair. 6th ed 102p $1 Am. inst. for economic research, Cambridge, Mass. '41

Investment trusts and investment companies; report of the Securities and exchange commission; Companies issuing face amount installment certificates. 267p U.S. Securities and exchange commission, Washington; 25c Supt. of doc. '40

Investment trusts, answer to investment problems of men going into armed forces. Comm & Fin Chr 155:1935 My 21 '42

Investment trusts; investment companies appearing as champions of investors. Comm & Fin Chr 155:839+ F 26 '42

Letter to beneficiaries of the George Putnam fund of Boston from the trustees. Comm & Fin Chr 154:1111+ N 20 '41

Packaging your investments; specialized funds provide limited diversification for investors who do own timing. L. Tomlinson. Barron's 22:8 Jl 20 '42

Accounting

Accountants' reports on examinations of securities and similar investments under the Investment company act. J Account 73:162-3 F '42

SEC on examination of the portfolios of investment companies. Comm & Fin Chr 154: 1556-7 D 18 '41

SEC on investment companies' accountants. Comm & Fin Chr 155:36 Ja 1 '42

Some accounting and auditing aspects of the Investment company act of 1940. C. H. Knoll. J Account 73:113-30 F '42

Advertising

Investment trusts; advertising tricks from the insurance field. Comm & Fin Chr 155:1031 Mr 12 '42

Finance

Average investment trust outperformed Dow Jones industrial average in 1941. Comm & Fin Chr 155:207 Ja 15 '42

Investment trust results. Economist 142:196-7, 265 F 7, 21 '42

Management of Affiliated fund, inc. prompted to activity by market decline. Comm & Fin Chr 155:7+ Ja 1 '42

Quarterly investment company gauge. L. Tomlinson. Barron's 22:18 Ja 19; 7 Ap 20; 9 Jl 20; 18 O 26 '42

36 of a group of 38 stocks outperform Dow-Jones industrials; record of investment trusts. Comm & Fin Chr 155:1431 Ap 9 '42

Fixed trusts

Future of unit trusts. Economist 143:455-6 O 10 '42

Regulation

Accountants' reports on examinations of securities and similar investments under the Investment company act. J Account 73: 162-3 F '42

Investment trusts and SEC working together. H. A. Long. Barron's 22:20 Mr 2 '42

Praises federal regulation of investment companies. P. Bartholet. Comm & Fin Chr 156:895 S 10 '42

SEC adopts form for unit trusts. Comm & Fin Chr 155:338 Ja 22 '42

SEC adopts new form to be used by management investment companies; amends investment company rule, S-X. Comm & Fin Chr 155:1858 My 14 '42

SEC adopts single report form for management companies. Comm & Fin Chr 155:659 F 12 '42

SEC on examination of the portfolios of investment companies. Comm & Fin Chr 154: 1556-7 D 18 '41

SEC on investment companies' accountants. Comm & Fin Chr 155:36 Ja 1 '42

SEC regulation S-X applied to unit trusts. Comm & Fin Chr 155:243 Ja 15 '42

Some accounting and auditing aspects of the Investment company act of 1940. C. H. Knoll. J Account 73:113-30 F '42

Securities

Cheap hedges against a market rise; speculative trust shares at large discounts. L. Tomlinson. Barron's 22:18 F 23 '42

Institutional and fiduciary investors. Comm & Fin Chr 156:7 Jl 2 '42

Investment company shares for estates. Comm & Fin Chr 155:2111 Je 4 '42

Investment trust people prefer their own shares to insurance equities. Nat Underw 46:13 Ja 22 '42

INVESTMENTS

As business and markets enter the second half of the year; with discussion of industries from an investment point of view. G. W. Mathis. Mag of Wall St 70:268-70+ Je 27 '42

Astor diversifies; Manhattan apartments exchanged. Business Week p64 S 19 '42

Attraction of stocks in spite of high taxes; latter tend to stabilize, and inflation to boost, corporate earnings. A. A. Mol. Barron's 22:5-6 Ag 24 '42

Balanced investment programs for safety today. J. S. Williams. Mag of Wall St 69: 258-9+ D 13 '41

Balanced security portfolios for today's needs. J. S. Williams. Mag of Wall St 70:482-3+ Ag 22 '42

Bonds and preferred stocks for increased yield. J. S. Williams. Mag of Wall St 69: 142-3+ N 15 '41

Case for diversification and supervision. Comm & Fin Chr 155:1695+ Ap 30 '42

Common stock and inflation; considerations in the use of equities in wartime. E. L. Maas. Trusts & Estates 74:183-4, 186+ F '42

Common trust funds offer six investment advantages; abstracts of talks at mid-winter trust conference. E. A. Stuebner and A. W. Whittlesey. Comm & Fin Chr 155:667 F 12 '42

Constructive contributions; investments and world conflict. Comm & Fin Chr 155:2199+ Je 11 '42

Corporation finance. O. P. Decker. 479p $4 Am. inst. of banking, New York '41

Defensive investment program for today's conditions. J. S. Williams. Mag of Wall St 69:442-3+ Ja 24 '42

Do Wall Street's customers win or lose? analysis of 1000 accounts, 1933-1937. P. F. Wendt. Barron's 22:9-10 Mr 16 '42

Do Wall Street's customers win or lose? how 200 traders operated their accounts in a two-year period. P. F. Wendt. Barron's 22:13+ Mr 23 '42

Dollars for defense, and security; investing in defense savings bonds. L. Tomlinson. Barron's 21:19-20 D 22 '41

Door to economic freedom; essential ingredient of democracy is assurance of the safety of invested savings. W. von Tresckow. Barron's 22:3 Ag 3 '42; Excerpt (Reserves for technological change). Trusts & Estates 75:174-5 Ag '42

Financial problems of educational institutions; Harvard university. A. C. Smith. Bankers M 143:510-11 D '41

Full employment: the means; stimulating private investment. Economist 143:438-40 O 10 '42

Gearing your investment capital to meet new tax problems. J. S. Williams. Mag of Wall St 69:692-3+ Ap 4 '42

How 1941 savings were invested. Inv Banking 12:45 Je '42

How to avoid financial tangles. K. C. Masteller. 8th ed 159p pa $1 Am. inst. for economic research, Cambridge, Mass. '41

Impact of defense upon industrial capacity and investment. M. J. Meehan. Am Statis Assn J 37:22-33 Mr '42

Industries and securities in favored investment position. J. C. Clifford. il Mag of Wall St 70:531-3+ S 5 '42

Insurance stocks offer stability and tax advantages to investors. Comm & Fin Chr 154:1014 N 13 '41

Investing for a widow, three years later; eight contest winners review and revise their 1939 programs. Barron's 22:7-8 S 7 '42

INVESTMENTS—*Continued*

Investing for a widow, three years later; supplementary lists show wide variations in results. L. Tomlinson. Barron's 22:3-4 S 28 '42

Investing in a world at war. A. A. Mol. Barron's 22:20 Ag 3; 7-8 Ag 10; 8+ Ag 17 '42

Investment information, please, by an investment trust manager, a banker, an investment counsellor; with comment by J. S. Williams. Mag of Wall St 71:8-11, 48-9 O 17 '42

Investment program for the small business man. J. S. Williams. Mag of Wall St 70: 118-19+ My 16 '42

Investment trusts; investment companies appearing as champions of investors. Comm & Fin Chr 155:839+ F 26 '42

Investment trusts; war-time investment. Comm & Fin Chr 155:1231-2 Mr 26 '42

Investments (Investments II). G. W. Edwards. rev ed 468p pa $1.50 Am. inst. of banking, New York '41

Investor and the Securities act. H. V. Cherrington. 255p bibliog(p247-51) $3.25; pa $2.50 Am. council on public affairs, Washington, D.C. '42

Is market on bottom? averages warrant selective purchases of equities, bonds and preferreds. A. T. Miller. Mag of Wall St 69:120-2 N 15 '41

Low price of equity income. B. Helmer and M. J. Fox, jr. Barron's 21:13 N 17 '41

National securities & research corporation distributor for Commodity corp. stock; statement by H. J. Simonson, jr. on inflation and investments in commodities. Comm & Fin Chr 154:1539+ D 18 '41

New frontiers of investment; abstract. J. B. Condliffe. For Comm W 8:13 Ag 22 '42

NYSE sees war bonds arousing interest in investing in general securities. Comm & Fin Chr 155:1609+ Ap 23 '42

News and views on investments; brief appraisals of factors influencing market values. H. Lawrence. Published in weekly numbers of Barron's

$100,000 investment program for 1942; long-term widow plan composed principally of reorganization rails, utilities and defense bonds. J. D. Weiss. Barron's 22:3+ Mr 2 '42

Packaging your investments; specialized funds provide limited diversification for investors who do own timing. L. Tomlinson. Barron's 22:8 Jl 20 '42

Personalized portfolios to meet 1942 investment objectives. J. S. Williams. Mag of Wall St 69:305-7+ D 27 '41

Pitfalls in income property investment. H. S. Kahm. Barron's 21:18 N 24 '41

Portfolio supervision in a declining market. Comm & Fin Chr 155:1031 Mr 12 '42

Problem of investment in 1942. F. E. Armstrong. Mech Eng 64:221-2 Mr '42

Real science of investment; some effects of war, and scientific research developments. J. S. Crout. Trusts & Estates 74:601-2, 604 Je '42

Rebuilding your investment portfolio; selected issues offering secure income return under present conditions. J. S. Williams. Mag of Wall St 70:14-15+ Ap 18 '42

Role of institutional investors in war time. R. G. Stockton; V. P. Whitsett; A. Mills, jr. Trusts & Estates 74:45-8 Ja '42

Royalty assn. gives rules for investors. Comm & Fin Chr 156:978 S 17 '42

Securities a buy; resemblance between situation today and late 1920s. G. Y. Billard. Comm & Fin Chr 154:1316 D 4 '41

Social trends and the investor; companies furnishing the necessities of life particularly vulnerable to government control. T. R. Price, jr. Barron's 22:18 Jl 20 '42

Strategy for profits; maintenance of speculative attitude and use of well-known securities urged. G. M. Loeb. Barron's 22:18 Mr 2 '42

Tax relief for investors proposed. L. J. Freeman. Barron's 22:7 F 16 '42

Too-short-term investing. F. B. Kirkbride. Trusts & Estates 74:517-18 My '42

Twenty billion dollars on the spot; market effects of possible taxation of income from state and municipal bonds. J. S. Williams. Mag of Wall St 69:534-6+ F 21 '42

20% portfolio gain in two years; Investing for a widow contest. Barron's 21:8 D 1 '41

Unique investment merit of series F and G war bonds. A. W. May. Mag of Wall St 70:327+ Jl 11 '42

War experience changes post-war outlook of many corporations. H. Lawrence. Barron's 22:4 S 21 '42

Where increased income is going; more funds flowing into investments. Barron's 22:1 Ag 31 '42

Which industries offer best prospects for 1942? G. W. Mathis. il Mag of Wall St 69:353-7+ Ja 10 '42

Wisest investment program today for income; for capital appreciation. J. S. Williams. Mag of Wall St 70:271-3+ Je 27 '42

See also

Banks and banking—Investments
Bonds
Building and loan associations
Chemical industries—Securities
Colleges and universities—Finance
Hedging
Insurance, Life—Investments
Insurance companies—Investments
Interest
Investment advisers
Investment banking
Investment trusts
Investors fairplay league
Mining industry and finance—Securities
Mortgages
Municipal bonds
Petroleum industry and trade—Securities
Public utilities—Securities
Railroads—Securities
Saving
Savings banks—Investments
Securities
Speculation
Stock exchange
Stockholders
Stocks
Trusts and trustees—Investments

Advertising

See also

Securities—Advertising

INVESTMENTS, Foreign

Foreign capital in southeast Asia. H. G. Callis. 120p bibliog(p109-20) pa $1.25 Inst. of Pacific relations, New York '42

Foreign investment in a postwar world. H. Feis. Fortune 26:86-7+ Jl '42; Abstract. Trusts & Estates 75:131-2 Ag '42

See also

Balance of payments

Great Britain

Argentine railways and nationalisation. Economist 142:899-900 Je 27 '42

British investment in South America. Economist 141:597-8 N 15 '41

Economic future of Britain. V. L. Horoth. Mag of Wall St 71:109-11+ N 14 '42

Overseas disinvestment. Economist 142:543 Ap 18 '42

Total British sales of U.S. securities. Comm & Fin Chr 155:1333 Ap 2 '42

Netherlands

Dutch capital for exploiting Russia. Economist 143:52 Jl 11 '42

Removal of Netherlands blocked marks tax fails to increase share supply on Berlin bourse. For Comm W 5:15-16 N 22 '41

United States

American direct investments abroad. R. L. Sammons and M. Abelson. For Comm W 8: 6-8, 40-2 Ag 1 '42

American direct investments in foreign countries, 1940. R. L. Sammons and M. Abelson. U S Bur For & Dom Com Economic Ser 20:1-43; pa 10c Supt. of doc. '42

America's corporate stake abroad, $7,000,000,000; tabulation. Business Week p62 Ag 22 '42

Detail status of foreign dollar bonds. Comm & Fin Chr 155:1701 Ap 30 '42

INVESTMENTS, Foreign—United States—*Cont.*

Developments in publicly offered foreign dollar bonds since the outbreak of the war. (Bul. 120) 36p pa 50c Inst. of international finance, New York '42

Foreign dollar bonds serviced in full in 1941 were only 56.38% of total. Comm & Fin Chr 156:114 Jl 9 '42

Foreign issues placed in the United States, 1919-1941. Comm & Fin Chr 155:245 Ja 15 '42

Moratorium on U.S.-held debts of Philippine companies. Comm & Fin Chr 156:709 Ag 27 '42

Our stake in the Middle East. il Business Week p32 Jl 11 '42

Red ink in Pacific; loss faced by American investors. Business Week p63-4+ Mr 14 '42

South American investments and hemisphere defense. J. F. Rippy. J Business 14:345-55 O '41

Statistical analysis of publicity offered foreign dollar bonds. 16p pa 50c Inst. of international finance, New York '42

U.S. investments in foreign dollar bonds. S. E. Bielouss. For Comm W 8:8+ S 26 '42; Correction. 9:27 O 10 '42

INVESTMENTS, Foreign (in Cuba)

Good neighbor policy succeeds in Cuba. L. C. Mann. Pub Util 29:737-44 Je 4 '42

INVESTMENTS, Foreign (in Latin America)

British investment in South America. Economist 141:597-8 N 15 '41

Prosperity returns to Latin America; trade balance reversed by U.S. armament program. F. M. Stern. map Barron's 21:3 N 24 '41

South American investments and hemisphere defense. J. F. Rippy. J Business 14:345-55 O '41

INVESTMENTS, Foreign (in Mexico)

Doing business in Mexico. R. W. Zimmermann. Harvard Business R 20 no 4:508-16 [Jl] '42

Final account filed by committee on Mexico. Comm & Fin Chr 156:458 Ag 6 '42

INVESTMENTS, Foreign (in Philippine Islands)

Moratorium on Philippine obligations. Banking 35:15 O '42

INVESTMENTS, Foreign (in United States)

Net capital movement to United States since Jan. 2, 1935. Fed Res Bul 28:512 My '42 [cont monthly]

INVESTORS fairplay league

Investors fairplay league is organized by B. C. Forbes. Comm & Fin Chr 155:2299 Je 18 '42

INVISIBLE glass. See Glass, Invisible

INVOICES

Customers' invoices now mailed day earlier. il Am Business 12:20-1 O '42

Streamlining the accounts receivable record; Old colony envelope co., Westfield, Mass. H. F. Burrows. N A C A Bul 24:64-9 S 15 '42; Abstract. Management R 31:337-9 O '42

System saves time and work; original invoice replaces ledger card in handling accounts receivable; American chicle co. A. H. Mader. il Credit & Fin Management 44:4-7+ O '42

IODATES

Conductance of potassium iodate at 25° and the mobility of the iodate ion. K. A. Krieger and M. Kilpatrick. bibliog Am Chem Soc J 64:7-9 Ja '42

Reduction of iodate and bromate at the dropping mercury electrode in neutral and basic media and the effects of salts upon the current-voltage curves. E. F. Orlemann and I. M. Kolthoff. Am Chem Soc J 64:1970-7 Ag '42

Reduction of iodate and bromate in acid medium at the dropping mercury electrode. E. F. Orlemann and I. M. Kolthoff. diag Am Chem Soc J 64:1044-52 My '42

See also
Potassium iodate

Analysis

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

IODIDES

Dielectric and solvent effects upon the iodide-persulfate reaction. E. S. Amis and J. E. Potts, jr. bibliog Am Chem Soc J 63:2883-8 N '41

Persulphate-iodide reaction; the critical increment, and the catalysed reaction in the presence of neutral salts. W. J. Howells. Chem Soc J p641-5 O '41

Photoöxidation of iodide ion sensitized by eosin; the effect of the oxygen concentration and of the light intensity. R. Livingston. bibliog diag J Phys Chem 46:233-8 F '42

Polyiodides of cesium; molecular formula of cesium tetraiodide. S. S. Hubard. bibliog J Phys Chem 46:227-9 F '42

Analysis

Determination of small amounts of iodide in photographic developers. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. Ind & Eng Chem Anal ed 14:314-16 Ap 15 '42

New microtest for iodide. D. Hart and R. Meyrowitz. bibliog Ind & Eng Chem Anal ed 14:606 Jl 15 '42

Ozone as an analytical reagent; determination of iodides. H. H. Willard and L. L. Merritt, jr. Ind & Eng Chem Anal ed 14:489-90 Je 15 '42

IODINATION

Iodinated organic compounds as contrast media for radiographic diagnoses; iodinated aracyl esters. W. H. Strain, J. T. Plati and S. L. Warren. bibliog Am Chem Soc J 64:1436-40 Je '42

Kinetics and mechanism of 2,6-di-iodotyrosine formation. Choh Hao Li. bibliog Am Chem Soc J 64:1147-52 My '42

New methods for investigating the distribution of ethoxyl groups in a technical ethylcellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:9-15 Ja '42

IODINE

Alcoholic iodine method for determining oxides in steel; inclusions in pig iron and cast iron. T. E. Rooney and others. diags Iron & Steel Inst J 143:344-70 no 1 '41

Chile's iodine position; production of iodine since July 1939. For Comm W 8:20 S 5 '42

Determination of the transference numbers of potassium iodide from the electromotive force of iodide-iodine gravity cells. S. W. Grinnell and F. O. Koenig. bibliog diags Am Chem Soc J 64:682-6 Mr '42

Disintegration schemes of radioactive substances; I^{131}. J. R. Downing, M. Deutsch and A. Roberts. bibliog Phys R 61:686-91 Je 1 '42

Emergency iodine sterilization; abstract and discussion. J. W. Krasauskas, C. J. Lauter and G. H. Harrington. Water Works & Sewerage 89:307-8 Jl '42

Halogen addition to ethylene derivatives; bromine and iodine additions in glacial acetic acid. K. Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:709-16 Mr '42

Iodine from flue dust; German experiments. Chem Age (Lond) 47:322 O 10 '42

On the resonance levels for neutron capture of iodine and indium. F. A. Valente. 31p pa 75c New York univ, New York '42

Photolysis of the aliphatic aldehydes; acetaldehyde and iodine mixtures. F. E. Blacet and J. D. Heldman. bibliog diag Am Chem Soc J 64:889-93 Ap '42

Photolysis of the aliphatic aldehydes; acetaldehyde and iodine mixtures in which wave length, temperature and iodine concentration varied. F. E. Blacet and D. E. Loeffler. bibliog Am Chem Soc J 64:893-6 Ap '42

Plentiful iodine supply opens study of uses. News Ed 19:1404 D 10 '41

IODINE—*Continued*

Production of atomic iodine in the reaction of peroxides with iodide ion. H. Taube. bibliog Am Chem Soc J 64:161-4 Ja '42

Storage of radioactive iodine in a metastasis from thyroid carcinoma. A. S. Keston and others. Science 95:362-3 Ap 3 '42

Thermal decomposition of acetone catalyzed by iodine. G. M. Gantz and W. D. Walters. bibliog il Am Chem Soc J 63:3412-19 D '41

Analysis

Iodine reaction and a mercury reaction of photographic importance. A. Steigmann. Soc Chem Ind J 61:82-4 My '42

IODINE bromide

Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

IODINE chloride

Unsaturation of synthetic rubberlike materials. L. E. Cheyney and E. J. Kelley. bibliog(37 references) Ind & Eng Chem 34:1323-6 N '42

IODINE number

Rapid method of measuring the unsaturation of hydrogenated fats. H. Jasperson. bibliog Soc Chem Ind J 61:115-16 Jl '42

Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

IODINE oxides

Analysis of divinyl ether in blood. W. L. Ruigh. bibliog il Ind & Eng Chem Anal ed 14:32-4 Ja 15 '42

IODOACETIC acid

Effect of temperature on the surface tension and density of some halogen substituted acetic acids. J. J. Jasper and L. Rosenstein. bibliog Am Chem Soc J 64:2078-9 S '42

IODOBENZENE

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Iodinated organic compounds as contrast media for radiographic diagnoses; iodinated aracyl esters. W. H. Strain, J. T. Plati and S. L. Warren. bibliog Am Chem Soc J 64:1436-40 Je '42

IODOBISMUTHITE

Iodobismuthite determination of bismuth in biological samples; application of neutral wedge photometer. C. J. W. Wiegand, G. H. Lann and F. V. Kalich. bibliog Ind & Eng Chem 13:912-15 D 15 '41

IODOCHOLEATE

Infections and lesions in minor surgery; advancement in iodine therapy. I. Zweigel. bibliog Ind Med 10:553-6 D '41

IODODIPHENYLBENZENE

Halogenation of *m*-diphenylbenzene; the monoiodo derivative. W. A. Cook and K. H. Cook. Am Chem Soc J 64:2485-6 O '42

IODOFORM

Iodoform reaction by methods of microscopy. H. F. Schaeffer. il J Chem Educ 19:15-16 Ja '42

IODOMETRY

Alkalimetric standardization of iodine solutions. F. L. Hahn. Ind & Eng Chem Anal ed 14:773 O 15 '42

Analysis of tin-base bearing metal; permanganate and iodometric methods for antimony and copper. J. R. Andrews and A. J. Bender. bibliog Ind & Eng Chem Anal ed 14:713-14 S 15 '42

Apparatus of iodometric determination of tin. W. M. Rumberger. diag Ind & Eng Chem Anal ed 14:801 O 15 '42

Determination of arsenic in organic compounds; an iodometric semimicroprocedure. H. A. Sloviter, W. M. McNabb and E. C. Wagner. bibliog Ind & Eng Chem Anal ed 14:516-19 Je 15 '42

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

Determination of mercury in organic compounds; an iodometric procedure based upon the method of Rupp. H. A. Sloviter, W. M. McNabb and E. C. Wagner. bibliog diags Ind & Eng Chem Anal ed 13:890-3 D 15 '41

End point of microtitrations with color indicators. A. A. Benedetti-Pichler and S. Siggia. bibliog diags Ind & Eng Chem Anal ed 14:828-32 O 15 '42

Estimation of aldehyde groups in hydrocellulose from cotton. A. R. Martin and others. bibliog J Research Nat Bur Stand 27:449-57 N '41

IODOSULFATE test. See Cinchona alkaloids—Analysis

IODOTYROSINE

Kinetics and mechanism of 2,6-di-iodotyrosine formation. Choh Hao Li. bibliog Am Chem Soc J 64:1147-52 My '42

IOLITE. See Cordierite

ION counters. See Counters (electrons, ions, etc.); Geiger-Müller counters

IONIZATION, Electrolytic

Apparent degree of ionization of hydrochloric, sulfuric, and acetic acids; an electrolytic conductivity experiment for general chemistry. L. E. West and A. Gahler. diag J Chem Educ 19:366-8 Ag '42

Determination of the transference numbers of potassium iodide from the electromotive force of iodide-iodine gravity cells. S. W. Grinnell and F. O. Koenig. bibliog diags Am Chem Soc J 64:682-6 Mr '42

Dissociation constant, dipole moment and structure of α-nitrotetronic acid. W. D. Kumler. Am Chem Soc J 64:1948-50 Ag '42

Effect of dielectric constant on acid-base equilibria. M. Kilpatrick. bibliog Chem R 30:159-69 Ap '42

Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42

Electrochemical properties of mineral membranes; the estimation of ammonium-ion activities; the measurement of ammonium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. J Phys Chem 46:325-34 F '42

Electron-sharing ability of organic radicals; the effect of the radicals on the ionizing power of organic solvents. F. J. Moore and I. B. Johns. Am Chem Soc J 63:3336-8 D '41

General theory of the isoelectric point. T. L. Hill. bibliog J Phys Chem 46:417-28 Mr '42

Ion-solvent interaction and individual properties of electrolytes. K. Fajans and O. Johnson. bibliog Electrochem Soc Trans 82 (preprint 16):161-75 O '42

Ionization constant of propionic acid in dioxane-water mixtures. H. S. Harned and T. R. Dedell. bibliog Am Chem Soc J 63:3308-12 D '41

Ionization constants of propionic acid in methyl and ethyl alcohol-water mixtures from 0 through 40°. A. Patterson and W. A. Felsing. Am Chem Soc J 64:1480-2 Je '42

Molal electrode potential of the silver-silver chloride electrode in ethyl alcohol-water mixtures. A. Patterson and W. A. Felsing. bibliog Am Chem Soc J 64:1478-80 Je '42

Molal volumes; thermodynamic properties of electrolytes at infinite dilution. O. Redlich and J. Bigeleisen. bibliog Chem R 30:171-9 Ap '42

Photosensitive complexes in the photolysis of uranyl oxalate and their dissociation constants. L. J. Heidt. bibliog J Phys Chem 46:624-30 Je '42

Reaction velocities at low temperatures; the ionisation of nitroethane at temperatures between -32° and +20°. R. P. Bell and A. D. Norris. Chem Soc J p854-6 D '41

IONIZATION, Electrolytic—*Continued*

Secondary ionization and activity coefficients of selenic acid. R. W. Gelbach and G. B. King. bibliog Am Chem Soc J 64:1054-7 My '42

Solubility of silver acetate in aqueous solutions of some other acetates; the formation of diacetato-argentate ion. F. H. MacDougall and M. Allen. bibliog J Phys Chem 46:730-7 Je '42

Some heats of dilution and related thermal quantities of aqueous cadmium chloride, bromide, and iodide solutions. A. L. Robinson and W. E. Wallace. bibliog Chem R 30: 195-209 Ap '42

Studies of ionisation in non-aqueous solvents; the formation of certain methoxides and ethoxides in methyl and in ethyl alcohol. W. L. German and T. W. Brandon. Chem Soc J p526-8 Ag '42

Study of the reaction of ferric ion with orthophosphate in acid solution with thiocyanate as an indicator for ferric ions. O. E. Lanford and S. J. Kiehl. bibliog Am Chem Soc J 64:291-6 F '42

Theory of absolute reaction rates and the conductivity of hydrocarbons at high field strengths. N. Davidson. Phys R 61:721 Je 1 '42

See also

Activity coefficients

IONIZATION, Gaseous

Average energy required to produce an ion pair in xenon with 0.16A X-rays. N. L. Walbridge. bibliog Phys R 60:852-6 D 15 '41

Gas analysis with the mass spectrometer. J. A. Hipple. il diags J Ap Phys 13:551-9 (bibliog p553, 559) S '42

Ionization and dissociation by electron impact: normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42

Ionization of argon and neon by electron impact. D. P. Stevenson and J. A. Hipple. bibliog Phys R 62:237-40 S 1 '42

Ionization of gases by collisions of their own accelerated atoms and molecules. H. W. Berry, R. N. Varney and S. Newberry. diag Phys R 61:63-4 Ja 1 '42

Ionization of gases by collisions of their own accelerated molecules. H. W. Berry. bibliog diags Phys R 62:378-82 O 1 '42

Range and ionization measurements on high speed protons. R. R. Wilson. bibliog diag Phys R 60:749-53 D 1 '41

Spectra of Hg II and Hg III. S. Mrozowski. il Phys R 61:605-13 My 1 '42

Strength of carbon-hydrogen and carbon-carbon bonds. D. P. Stevenson. bibliog diag J Chem Phys 10:291-4 My '42

Theory of the initial avalanche in the breakdown of a discharge counter in helium. S. C. Brown. diags Phys R 62:244-54 S 1 '42

See also

Cosmic rays—Ionization effects
Electrons
Ionization gage

IONIZATION, Heat of

Calorimetric investigations of organic reactions; the heats of ionization of *dl*-alanine at 25°. J. M. Sturtevant. bibliog Am Chem Soc J 64:762-8 Ap '42

IONIZATION chambers

Calculation of the error due to the absence of guard electrodes in X-ray ionization chambers. N. L. Walbridge. R Sci Instr 12: 546-8 N '41

Proportional counter amplification at low voltages. M. E. Rose and W. E. Ramsey. bibliog diag Phys R 61:504-9 Ap 1 '42

IONIZATION gage

Emission-regulating circuit for an ionization gauge. R. B. Nelson and A. K. Wing, jr. diags R Sci Instr 13:215-17 My '42

Stabilized ionization gauge circuit with vacuum tube voltmeter. J. Rainwater. diags R Sci Instr 13:118-22 Mr '42

IONOSPHERE. See Atmosphere, Upper

IONS

Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

Apparent volumes of individual ions in aqueous solution. K. Fajans and O. Johnson. bibliog Am Chem Soc J 64:668-78 Mr '42

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

Calculation of the effect of pressure upon ionic equilibria in pure water and in salt solutions. B. B. Owen and S. R. Brinkley, jr. bibliog Chem R 29:461-74 D '41

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Copper(II) and nickel(II) complex ions of diethylenetriamine. H. M. Haendler. bibliog Am Chem Soc J 64:686-8 Mr '42

Determination of the entropy of the chloride ion. H. A. Bernhardt and H. D. Crockford. J Phys Chem 46:473-6 Ap '42

Developments in ion accelerating tubes. J. H. Manley, L. J. Haworth and E. A. Luebke. bibliog diags R Sci Instr 12:587-90 D '41

Effect of colored ions on the photo-inactivation of invertase. H. Lardy and T. F. Anderson. Science 95:330-1 Mr 27 '42

Electronic structure and stability of hydrogen halides and of complex ions XO_4. K. Fajans and N. Bauer. bibliog J Chem Phys 10:410-15 Jl '42

Electrostatic generator for nuclear research at M.I.T. L. C. Van Atta and others. bibliog il diags R Sci Instr 12:534-45 N '41

Energy states of solids; evidence from thermal data for the existence of low electronic energy levels in europium ion; the heat capacity of europium sulfate octahydrate from 60 to 300°K. E. A. Long and R. A. Degraff. bibliog Am Chem Soc J 64: 1346-9 Je '42

Field of electrets in the presence of gaseous ions. A. Gemant. bibliog Phys R 61:79-83 Ja 1 '42

Formal oxidation-reduction potentials of thallous-thallic salts in aqueous hydrochloric acid solutions; formation of chlorothallate complex ions. R. H. Hughes and C. S. Garner. bibliog diag Am Chem Soc J 64: 1644-8 Jl '42

Intermediate colloid state in the formation of gold and platinum ions. C. G. Fink. bibliog J Phys Chem 46:76-81 Ja '42

Investigation of the scattering of positive alkali ions at an angle of 90° in mercury vapor. Sister John Baptist Macelwane. diag Phys R 60:762-5 D 1 '41

Loss of energy of hydrogen ions in traversing various gases. C. M. Crenshaw. diags Phys R 62:54-7 Jl 1 '42

Magnetic ion. F. Ehrenhaft and L. Banet. bibliog Science 96:228-9 S 4 '42

New precipitant for group II ions. S. Gaddis. J Chem Educ 19:327-8 Jl '42

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

Solubility of silver acetate in aqueous solutions of silver nitrate and of silver perchlorate; complex ions formed from silver and acetate ions. F. H. MacDougall. J Phys Chem 46:738-47 Je '42

Useful graphic representation of ionic radii. T. Moeller. J Chem Educ 19:428-9 S '42

See also

Activity coefficients
Base exchanging compounds
Chemical reaction—Velocity
Cyclotron
Electrolysis
Electrolytes
Electrons
Hydrogen ion concentration
Ionization, Electrolytic
Ionization, Gaseous

Mobility

Angular distribution of current from a point in hydrogen. W. H. Bennett. diags Phys R 61:53-6 Ja 1 '42

IONS—Mobility—*Continued*

Conductance and ionic mobilities for aqueous solutions of potassium and sodium chloride at temperatures from 15° to 45°C. H. E. Gunning and A. R. Gordon. bibliog diags J Chem Phys 10:126-31 F '42

Conductance of potassium iodate at 25° and the mobility of the iodate ion. K. A. Krieger and M. Kilpatrick. bibliog Am Chem Soc J 64:7-9 Ja '42

Conductivity studies; the limiting ionic mobilities of several univalent ions at temperatures between 15 and 45°. N. C. C. Li and W. Brüll. Am Chem Soc J 64:1635-7 Jl '42

Mobilities in some free electron gases. W. H. Bennett and L. H. Thomas. Phys R 62:41-7 Jl 1 '42

Variation of the transference numbers of sodium chloride in aqueous solution with temperature. R. W. Allgood and A. R. Gordon. J Chem Phys 10:124-6 F '42

Scattering

Apparatus for the measurement of the scattering of low velocity ions in gases at low pressure. J. H. Simons and others. diags R Sci Instr 13:419-26 O '42

Velocity

Momentum loss of heavy ions. J. H. M. Brunings, J. K. Knipp and E. Teller. Phys R 60:657-60 N 1 '41

IOWA

See also

Public lands—Iowa

IOWA academy of science

Annual meeting, 56th, Mt Pleasant, Iowa, April 17-18. Science 95:651-2 Je 26 '42

IOWA southern utilities company of Delaware

Debentures offered. Comm & Fin Chr 155:696-7 F 14 '42

Financing plan revised. Comm & Fin Chr 155:602 F 7 '42

Receivership vacated. Comm & Fin Chr 156:866 S 7 '42

IRAQ

Middle East. il Fortune 25:172 F '42

IRELAND

Cable from Eire. map Fortune 25:36+ Mr '42

See also

Trade unions—Ireland

Commerce

Eire's balance of payments. Economist 141:625-6 N 22 '41

Economic conditions

Neutral austerity. Economist 142:828 Je 13 '42

Shortages in Eire. Economist 142:148-9 Ja 31 '42

IRIDIUM

Analysis

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

IRON

Adsorption by strontium salts of traces of iron from caustic soda solutions. W. E. Caldwell and C. A. Boyd. bibliog Ind & Eng Chem 34:230-3 F '42

Adsorption of nitrogen and the mechanism of ammonia decomposition over iron catalysts. S. Brunauer, K. S. Love and R. G. Keenan. bibliog Am Chem Soc J 64:751-8 Ap '42

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

Catalytic decomposition of ammonia over iron synthetic ammonia catalysts. K. S. Love and P. H. Emmett. bibliog Am Chem Soc J 63:3297-308 D '41

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Decomposition of carbon monoxide by ferromagnetic metals. F. Olmer. bibliog diag J Phys Chem 46:405-14 Mr '42

Effect of alkali promoter concentration on the decomposition of ammonia over doubly promoted iron catalysts. K. S. Love and S. Brunauer. bibliog Am Chem Soc J 64:745-51 Ap '42

Elimination of oxide films on ferrous materials by heating in vacuum. V. C. F. Holm. bibliog pls J Research Nat Bur Stand 28:569-79 My '42

Emissivities and temperature scales of the iron group. H. B. Wahlin and R. Wright. J Ap Phys 13:40-2 Ja '42

Free electrons; solid iron and its alloys; abstract. R. Smoluchowski. Gen Elec R 45:134-5 F '42; Same. Blast F & Steel Pl 30:273-4 F '42

Increase of residual magnetism caused by a current flowing through an iron bar. H. A. Perkins and H. D. Doolittle. diag Phys R 60:811-17 D 1 '41

Industrial iron; abstract. Am Cer Soc J 25 (Cer A 21):6 Ja '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:49 Je 22; 42 Je 29; 61 Jl 6 '42

Iron and war (cont). F. T. Sisco. Min & Met 23:35, 305, 515, 604-5 Ja, My, O, D '42

Iron-glass seal. Gen Elec R 45:299 My '42

Iron; its use and effect in making basic open-hearth steel. W. C. Buell, jr., J. R. Miller and H. W. Potter. il diag Steel 111:78, 80, 82+ Ag 17 '42; Same cond. Metals & Alloys 16:724+ O '42

It's the little things that count; off-flavors, rancidity, etc. can often be traced to presence of minute quantities of metals, acting as catalysts. J. A. Dunn. Food Ind 14:41-4+ Ag '42

Magnetic scattering of neutrons. M. Hamermesh. Phys R 61:17-18 Ja 1 '42

Measurement of the initial inner permeability of iron over a wide radio-frequency range. R. W. Woods. bibliog diag J Ap Phys 13:314-19 My '42

Modulus of elasticity and damping capacity of iron and iron alloys. W. Köster. Engineer 173:514-15 Je 19 '42

Oxidation-reduction equilibria in glass between iron and selenium in several furnace atmospheres. F. Day, jr. and A. Silverman. bibliog diag Am Cer Soc J 25:371-81 S 1 '42

Partial reduction of acetylenes to olefins using an iron catalyst; enyne and dienyne reduction. A. F. Thompson, jr. and E. N. Shaw. Am Chem Soc J 64:363-6 F '42

Properties of high-purity iron. H. E. Cleaves and J. M. Hiegel. bibliog pls J Research Nat Bur Stand 28:643-67 My '42

Soft steel for plastic molds. H. C. Disston and J. K. Desmond. il Metal Prog 41:512-14 Ap '42

Some observations on the formation and stability of oxide films. E. A. Gulbransen. bibliog Electrochem Soc Trans 82 (preprint 19):209-21 O '42

Some observations on the problem of iron in bleaching wood pulp. E. L. Keller and F. A. Simmonds. bibliog Paper Tr J 115:98-104 O 1 '42

Steels and irons. Metal Prog 42:525-86 O '42

Swords and plowshares; iron, of warlike origin, made tremendous strides in peaceful pursuits. J. Early. il Barron's 22:8 Ja 19 '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

Thermionic properties of the iron group. H. B. Wahlin. bibliog Phys R 61:509-12 Ap 1 '42

Thin oxide films on iron; vacuum microbalance technic. E. A. Gulbransen. bibliog diags Electrochem Soc Trans 81 (preprint 15):187-97 Ap '42

IRON—*Continued*

WPB ban on iron and steel in 400 products to accelerate conversions. Steel 110:59-60 My 11 '42

See also

Blast furnaces
Cast iron
Charcoal iron
Corrosion and anti-corrosives
Foundry practice
Galvanizing
Iron works
Magnetism
Meteorites
Pickling (metals)
Pig iron
Steel
Water purification—Iron removal
Wrought iron

Analysis

Ceric sulfate in the determination of iron using the molybdisilicic (silicomolybdic) acid method. A. C. Titus and C. W. Sill. Ind & Eng Chem Anal ed 14:121 F 15 '42

Colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in the presence of metaphosphate and pyrophosphate. H. E. Wirth. Ind & Eng Chem Anal ed 14:722-5 S 15 '42

Colorimetric microdetermination of iron. C. P. Sideris. Ind & Eng Chem Anal ed 14:756-8 S 15 '42

Colorimetry in metallurgical analysis. R. W. Silverthorn and J. A. Curtis. il Metals & Alloys 15:245-8 F '42

Determination of carbon in low-carbon iron and steel; low-pressure combustion method. L. A. Wooten and W. G. Guldner. bibliog diags Ind & Eng Chem Anal ed 14:835-8 O 15 '42

Determination of divalent iron. G. Cronheim and W. Wink. Ind & Eng Chem Anal ed 14:447-8 My 15 '42

Electrolytic determination of iron; a modified Moore method. W. H. Armistead, jr. Ind & Eng Chem Anal ed 14:207-9 Mr 15 '42

Electrolytic separation of radioactive iron from the blood. J. F. Ross and M. A. Chapin. diag R Sci Instr 13:77-80 F '42

Luminol as reagent for hydrogen peroxide, copper, iron, and cyanide. A. Steigmann. Soc Chem Ind J 61:36 F '42

Method for making a direct determination of combined carbon in cast iron and steel; abstract. J. G. Donaldson. Iron Age 149:61 Ap 30 '42

New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

Photometric determination of copper and iron in distilled liquors. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:364-6 Ap 15 '42

Third report of the oxygen sub-committee of the committee on the heterogeneity of steel ingots. bibliog diags Iron & Steel Inst J 143:295-387, pl 48-9 no 1 '41; Summary. Engineering 151:415-16 My 23 '41; Discussion. Iron & Steel Inst J 143:388-99 no 1 '41

Volumetric determination of iron and titanium. W. M. McNabb and H. Skolnik. bibliog Ind & Eng Chem Anal ed 14:711-13 S 15 '42

Bibliography

Review of iron and steel literature for 1941. E. H. McClelland. Blast F & Steel Pl 30:89-91, 94, 98+ Ja '42

Survey of literature on the manufacture and properties of iron and steel, and kindred subjects. Iron & Steel Inst J 143:1A-241A no 1; 144:1A-238A no 2 '41

Inclusions

Aqueous iodine method; determination of oxide inclusions in pig iron. E. Taylor-Austin. Iron & Steel Inst J 143:358-66 no 1 '41

Metallography of inclusions in cast irons and pig irons. H. Morrogh. diags Iron & Steel Inst J 143:207-53, pl 38-47 bibliog(59 references, p252-3) no 1 '41; Summary. Iron Age 147:26 Ja 9 '41; Discussion. Iron & Steel Inst J 143:254-86, pl 47A-47B no 1 '41

Present position of the determination of oxide inclusions in pig iron and cast iron. J. G. Pearce. Iron & Steel Inst J 143:366-70 no 1 '41

Isotopes

Disintegration schemes of radioactive substances; Fe^{59}. M. Deutsch and others. Phys R 62:3-7 Jl 1 '42

Metallography

Brake drums. O. Smalley. il Metals & Alloys 15:256-62, 405-11, 595-8 F-Ap '42

Crystal structure of cementite, Fe_3C. H. Lipson and N. J. Petch. bibliog diags Iron & Steel Inst J 142:95-103; Discussion. 104-6 no 2 '40; Correction. 144:309 no 2 '41

Effect of normal elements and alloy elements on the rate of austenite transformation in cast iron at constant temperature. C. Nagler and W. P. Wood. il diags Am Soc for Metals Trans 30:491-512; Discussion. 512-15 Je '42

Elastic properties of some alloy cast irons. A. I. Krynitsky and C. M. Saeger, jr. bibliog pls J Research Nat Bur Stand 28:73-94 Ja '42

Influence of the electronic structure of soluble elements on the range of stability of gamma iron. R. Smoluchowski. Metal Prog 41:363-4 Mr '42

Iron, iron carbide equilibrium diagram. Metal Prog 40:511 O '41; Discussion. 40:905+; 42:392-3 D '41, S '42

Martensite thermal arrest in iron-carbon alloys and plain carbon steels; helium gas as quenching medium. A. B. Greninger. bibliog il diag Am Soc for Metals Trans 30:1-26 Mr '42

Metallographic study of the formation of austenite from aggregates of ferrite and cementite in an iron-carbon alloy of 0.5 percent carbon. T. G. Digges and S. J. Rosenberg. bibliog il J Research Nat Bur Stand 29:113-21, pl 1-11 Ag '42

Metallography of inclusions in cast irons and pig irons. H. Morrogh. diags Iron & Steel Inst J 143:207-53, pl 38-47 bibliog(59 references, p252-3); Discussion. 254-86, pl 47A-47B no 1 '41

Metallurgical study of cast iron for glass molds. W. H. Bruckner and H. Czyzewski. il Am Cer Soc J 25:381-8 S 1 '42

Micro and macro structures of gray iron and meehanite. C. R. Austin and M. M. Lipnick. il Iron Age 149:72-4 My 7; 58-61+ My 14 '42

Microstructural characteristics of high purity alloys of iron and carbon. T. G. Digges. bibliog il Am Soc for Metals Trans 30:287-311; Discussion. 311-12 Je '42

Polishing of cast-iron micro-specimens and the metallography of graphite flakes. H. Morrogh. bibliog Iron & Steel Inst J 143:195-205, pl 28-37 no 1 '41; Same cond. Engineering 151:297-9, pl 23 Ap 11 '41; Discussion. Iron & Steel Inst J 143:254-86, pl 47A-47B no 1 '41

Phosphorus content

Second report of the research committee on high-duty cast irons for general engineering purposes. J. G. Pearce. Inst Mech Eng J & Proc 146:Proc 61-6 D '41; Same cond. Engineering 152:118-20 Ag 8 '41

Prices

Average monthly quotations in 1941, tabulation. Steel 110:358 Ja 5 '42

Comparison of prices; market prices at date, and one week, one month, and one year previous. Published in weekly numbers of Iron age

Iron and steel scrap prices; finished and semi-finished iron and steel prices; iron and steel warehouse prices. Published in weekly numbers of Iron age

Iron, steel price schedule revised to provide relief for exporters. Steel 110:37 F 9 '42

Market in tabloid. Published in weekly numbers of Steel

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:359-61 Ja 5 '42

IRON—Prices—*Continued*

Steel, iron and scrap price composites, 1937-1941; tabulation. Steel 110:366 Ja 5 '42

Sulfur content

Desulphurizing at the blast furnace. G. S. Evans. diags Iron Age 149:45-7 Ap 30 '42

Desulphurizing pig iron; report of German research. il Iron Age 149:45-8 Ap 9 '42

Recent developments in desulphurizing cast iron. G. S. Evans. il Steel 110:82, 84, 88+ My 25 '42

Testing

Intercrystalline cracking in boiler plates; exposure of iron and steel specimens to sodium hydroxide solutions at high temperature and pressure. F. Adcock and A. J. Cook. diags Iron & Steel Inst J 143:117-33, pl 15-18 no 1 '41

Intercrystalline cracking in boiler plates; prolonged-stress tests on iron and steel specimens immersed in hot sodium hydroxide solutions. C. H. M. Jenkins and F. Adcock. diags Iron & Steel Inst J 143:102-16, pl 12-14 no 1 '41

Test for corrosion of painted iron. R. B. Gibney. il diag Metal Finishing 39:701-2 D '41

IRON, Galvanized

Testing

Equation representing the rate of development of rust on galvanized iron sheets as estimated by the A.S.T.M. test. J. B. Austin. Am Soc T M Proc 41:766-74; Discussion. 775-8 '41

IRON, Molten

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles, p739-41); Discussion. 741-6 S '42

Rapid temperature measurements of molten iron and steel with an immersion thermocouple. F. Holtby. il diags Am Soc for Metals Trans 29:863-75; Discussion. 875-80 D '41

Solubility of iron oxide in liquid iron. J. Chipman and K. L. Fetters. bibliog diag Am Soc for Metals Trans 29:953-67; Discussion. 967-8 D '41

Use of blown metal; experiences of Weirton steel co.; abstract. J. D. Gold and S. M. Newbrender. Iron Age 149:54-5 Ap 23 '42

IRON, Powdered

Anisotropy of ferromagnetic powder particles. E. T. Benedikt. diag J Ap Phys 13:105-9 F '42

Dies for fabrication of porous bearings. A. J. Langhammer and M. F. Smith. il diags Metal Prog 41:335-7 Mr '42

Durex iron finds many applications; composition of iron powders and graphite. Mach 48:158-9 D '41

Electrolytic iron powder is developed at Ford motor co. Steel 110:88+ Ap 6 '42

Hot pressing of iron powders; abstract. C. G. Goetzel. Metals & Alloys 14:724 N '41

Iron powder and its sintering. J. Libsch, R. Volterra and J. Wulff. il Metal Prog 41:528-30+ Ap '42

Metal powders; Moraine products division of General Motors; iron and steel scrap converted into iron powder; illustrations. Iron Age 149:49-53 F 19 '42

Powder metallurgy; a composite of abstracts. bibliog Metals & Alloys 15:1025-6+ Je '42

Powder metallurgy; some developments. Automobile Eng 32:401-2 O '42

Powered metals in machine design. il Mach 48:111-18 Ag; 49:148-52 S '42

Radio uses of powdered iron cores. bibliog il Electronics 15:35-7, 93-5 F '42; Excerpts. Elec Eng 61:196 Ap '42

Reducing iron ore with hydrogen. M. H. Kalina and T. L. Joseph. il Iron Age 148:39-43 D 11 '41

Sintered, forged and rolled iron powders. C. G. Goetzel. il Iron Age 150:82-4, 87-92 O 1 '42

Sintered parts; progress in fabrication from compressed porous powders. Automobile Eng 32:266-8 Jl '42

Steam treatment of porous iron articles; abstract. F. V. Lenel. il Metals & Alloys 14:724+ N '41

Substitutes iron powder for bronze. A. F. Macconochie. il Steel 110:98+ Mr 16 '42

Workable molybdenum-iron alloys; abstract. J. Kurtz. Metals & Alloys 14:722 N '41

IRON, Sponge

Bureau of mines will erect sponge iron plant in Wyoming. Blast F & Steel Pl 30:1031-2 S '42

Development of sponge iron process would retard war effort; Research council's committee reports to WPB. Steel 111:45-7 Jl 20 '42

Exploding the sponge iron myth in modern steelmaking practice. F. F. Foss. il Steel 111:100, 102-3+ O 12 '42

Manufacture of high-quality, low-cost steel; pouring practice; photomicrographs of sponge iron treated in open-hearth slag thimble. P. J. McKimm. bibliog il Steel 111:90, 92+ Jl 13 '42

Pilot plants for producing sponge iron planned by Bureau of mines. R. R. Sayers. Steel 111:60 Jl 13 '42; Abstract. Science 96:sup9 Jl 17 '42

Republic Steel to undertake government's $450,000 experiment; development of sponge iron. il Steel 111:31 O 26 '42

Sponge iron; an unpromising substitute for scrap in steel production. C. Williams. il Min & Met 23:467-9 S '42

Sponge iron for scrap? senators' plan impractical. il Steel 110:44-5 Je 29 '42

Sponge iron; merits and demerits of a scrap substitute. Chem Age (Lond) 47:225-6 S 5 '42

Sponge iron process. Science 96:sup 10 Jl 10 '42

Sponge iron process in the production of steel; considered not practical. il Min Cong J 28:30-1, 34-5 Ag '42

Sponge-iron production already proved practical. H. G. S. Anderson. il Min & Met 23:563-4 N '42

Sponge iron trial; new Republic plant. Business Week p77-8 O 31 '42

Swedish sponge iron plant used magnetite concentrates. F. F. Foss. Iron Age 150:136 Ag 13 '42

Test in Ohio may be key to sponge iron. Iron Age 150:92F-92G O 29 '42

Washington prods under tombstones in graveyard of sponge iron processes. il Iron Age 150:81-3 Jl 23 '42

IRON age

Swords and plowshares; iron, of warlike origin, made tremendous strides in peaceful pursuits. J. Early. il Barron's 22:8 Ja 19 '42

IRON alloys

Alloy cast-irons; Midland motor cylinder co., ltd. il diag Automobile Eng Extra no 31:383-5+ N 6 '41

Cast-iron; future developments and possibilities in the automobile industries. il Automobile Eng 32:237-42 Je '42

Corrosion of binary alloys; systems Fe-Ni, Fe-Co, Fe-Mn, Ni-Cu, Ni-Co, Ni-Mn, Ni-Ta. R. Landau and C. S. Oldach. diags Electrochem Soc Trans 81 (preprint 16): 199-231 bibliog(62 references, p229-31) Ap '42

Economical alloying of gray cast iron. R. G. McElwee and T. E. Barlow. il Foundry 70:54-5+ Je '42; Excerpts. Metals & Alloys 16:730+ O '42

Effect of normal elements and alloy elements on the rate of austenite transformation in cast iron at constant temperature. C. Nagler and W. P. Wood. il diags Am Soc for Metals Trans 30:491-512; Discussion. 512-15 Je '42

Free electrons; solid iron and its alloys; abstract. R. Smoluchowski. Gen Elec R 45:134-5 F '42; Same. Blast F & Steel Pl 30:273-4 F '42

Low expansion alloys for glass-to-metal seals. W. E. Kingston. bibliog diags Am Soc for Metals Trans 30:47-67 Mr '42; Excerpts. Metals & Alloys 16:338+ Ag '42

IRON alloys—*Continued*

Machinability of ferrous castings. E. K. Smith. Mach 48:129-31 F '42

Modulus of elasticity and damping capacity of iron and iron alloys. W. Köster. Engineer 173:514-15 Je 19 '42

Report on austenitic and martensitic special-duty cast irons. J. G. Pearce. Inst Mech Eng J & Proc 146:Proc 67-71 D '41

Report on austenitic cast irons. J. G. Pearce. bibliog Inst Mech Eng J & Proc 146:Proc 71-8 D '41

Report on martensitic cast irons. J. G. Pearce. bibliog Inst Mech Eng J & Proc 146:Proc 78-80 D '41

Supply of alloys for cast iron. H. S. Austin. Metal Prog 40:886-7 D '41

See also

Ferroalloys
Meehanite
Permalloy
Steel
Steel alloys

Carbon alloys

Factors influencing austenitic grain size. T. G. Digges and S. J. Rosenberg. Metal Prog 42:608+ O '42

Influence of initial structure and rate of heating on the austenitic grain size of 0.5-percent-carbon steels and iron-carbon alloy. T. G. Digges and S. J. Rosenberg. J Research Nat Bur Stand 29:33-40, pl 1-29 Jl '42

Martensite thermal arrest in iron-carbon alloys and plain carbon steels; helium gas as quenching medium. A. B. Greninger. bibliog il diag Am Soc for Metals Trans 30:1-26 Mr '42

Metallographic study of the formation of austenite from aggregates of ferrite and cementite in an iron-carbon alloy of 0.5 percent carbon. T. G. Digges and S. J. Rosenberg. bibliog il J Research Nat Bur Stand 29:113-21, pl 1-11 Ag '42

Microstructural characteristics of high purity alloys of iron and carbon. T. G. Digges. bibliog il Am Soc for Metals Trans 30:287-311; Discussion. 311-12 Je '42

Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

Chromium alloys

Embrittlement of high chromium irons. G. Riedrich and F. Loib. Metal Prog 42:234 Ag '42

Some observations on the formation and stability of oxide films. E. A. Gulbransen. bibliog Electrochem Soc Trans 82 (preprint 19):209-21 O '42

Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

See also

Chromium steel

Chromium nickel alloys

See also

Chromium nickel steel
Iron alloys—Nickel chromium alloys

Cobalt tungsten alloys

Hardening characteristics of an iron-cobalt-tungsten alloy. W. P. Sykes. bibliog il Am Soc for Metals Trans 30:147-64; Discussion. 164-5 Mr '42

Gold alloys

Ferromagnetic gold-iron alloys. S. T. Pan, A. R. Kaufmann and F. Bitter. il J Chem Phys 10:318-21 Je '42

Manganese alloys

See also

Ferromanganese
Manganese steel

Molybdenum alloys

Workable molybdenum-iron alloys; abstract. J. Kurtz. Metals & Alloys 14:722 N '41

See also

Molybdenum steel

Nickel alloys

New magnetic materials. W. E. Ruder. bibliog Inst Radio Eng Proc 30:437-40 O '42

See also

Nickel steel

Nickel chromium alloys

X-ray investigation of iron-nickel-chromium alloys. A. J. Bradley and H. J. Goldschmidt. bibliog Iron & Steel Inst J 144:273-83; Discussion. 284-8 no 2 '41

See also

Chromium nickel steel

Nickel molybdenum alloys

Elastic properties of some alloy cast irons. A. I. Krynitsky and C. M. Saeger, jr. bibliog pls J Research Nat Bur Stand 28:73-94 Ja '42

Silicon alloys

New magnetic materials. W. E. Ruder. bibliog Inst Radio Eng Proc 30:437-40 O '42

Tin alloys

Rate of formation of tin-iron alloy during hot dip tinning as measured by a magnetic method. A. U. Seybolt. diag Am Soc for Metals Trans 29:937-46; Discussion. il 946-52 D '41

Tungsten alloys

Electrodeposition of iron-tungsten alloys from an acid plating bath. M. L. Holt and R. E. Black. bibliog il Electrochem Soc Trans 82 (preprint 27):319-29 O '42; Abstract. Chem & Met Eng 49:169 N '42

IRON and steel defense advisory committee

Steel defense committees. Iron Age 149:68-9 Ja 1 '42

IRON and steel institute

Annual meeting, London, May 7. Steel 110:85 Je 8 '42

Annual meeting, 73d, London, May 7. Engineering 153:394-5 My 15 '42

Autumn meeting, London, Nov. 25. Engineering 152:454-5 D 5 '41

IRON arsenides

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

IRON bacteria

Corrosion of iron pipes; abstract. A. H. Thomas. Science 96:sup10+ O 2 '42

Microbiological deposits and bacteriological corrosion. A. E. Griffin. bibliog il Paper Tr J 115:32-7 S 24 '42

Role of bacteria in corrosion; chlorination in the control of interior corrosion of pipe lines. A. H. Thomas. bibliog il Water Works & Sewerage 89:367-72 S '42; Abstract. Eng N 129:371 S 10 '42

Role of bacteria in corrosion of iron and steel; abstract. A. H. Thomas. Chem & Met Eng 49:176-7 F '42

IRON bromides

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

IRON chlorides

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

Ferric chloride; practical aspects of storing and handling. L. L. Hedgepeth and J. M. Potter. il diag Water Works & Sewerage 89:sup245-6 Je '42

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42

IRON chlorides—*Continued*

Recovery of values from mixed stainless steel scrap and waste. R. H. McCormack and G. F. Kinney. flow sheet Metal Prog 42:236-7 Ag '42

System ferric chloride-sodium chloride. H. F. Johnstone, H. C. Weingartner and W. E. Winsche. bibliog Am Chem Soc J 64:241-4 F '42

IRON cyanides. See Ferrocyanides

IRON founding

American foundrymen's association annual meeting; abstracts of papers. Foundry 70:140, 143+ My '42

Casting design for malleable iron. J. H. Lansing. il diags Foundry 70:76-7, 157-9 N '42

Casting plow parts and pipe fittings; Lynchburg foundry company. il Foundry 70:100-3+ My '42

Control of cupola air improves filter press castings. W. H. O'Connell. il diags Comp Air M 47:6641-3 Ja '42

Cupola practice with briquettes. W. A. Hambley and K. Geist. il Iron Age 150:39-42 Ag 27; 60-3 S 3 '42

Desulphurizing at the blast furnace. G. S. Evans. diags Iron Age 149:45-7 Ap 30 '42

Develops cupola mixing spout. W. A. O'Brien. diag Foundry 70:104+ S '42

Economical alloying of gray cast iron. R. G. McElwee and T. E. Barlow. il Foundry 70:54-5+ Je '42

Effect of moisture in blast air. R. J. Cowan. il diag Iron Age 150:43-50 N 12 '42

Foundry orders should carry complete information. A. E. Grover. Foundry 70:56-7, 118+ Je '42

Foundry technique in the production of high strength and other types of alloy gray iron castings; abstract. A. E. M. Smith. Metals & Alloys 14:750+ N '41

Gating and molding malleable cast iron. C. C. Lawson. il Foundry 70:70-1+ Ja '42

Improving cupola performance. D. J. Reese. il Foundry 70:62-3+ Ja; 68-9+ F '42

Interesting technique used on large motor frame. R. L. Hartford. il Foundry 70:71+ F '42

Make machine tool castings in highly modern foundry; Cincinnati milling machine co. P. Dwyer. il Foundry 70:66-8+ N; 76-9+ D '42

Malleable foundry keeps 'em rolling. P. Dwyer. il plan Foundry 70:84-6+ S '42

Manufacture of high test cast iron crankshafts. E. M. Currie and R. B. Templeton. il Iron Age 149:42-6 My 21 '42

Melting quality iron in the cupola. H. S. Austin. il Foundry 69:58-9+ N; 58-9+ D '41

Modern methods and equipment for malleable iron; abstracts of papers, American foundrymen's association; reported by M. L. Samuels and C. H. Lorig. il Metal Prog 41:802-5 Je '42

Molding large iron castings; Lynchburg foundry co. P. Dwyer. il Foundry 70:72-5+ Jl '42

New roll making technique. P. Dwyer. diag Foundry 70:138-42 O '42

Recent developments in cast metals. C. H. Lorig. il Foundry 70:68-9+ Ja '42

Recent developments in desulphurizing cast iron. G. S. Evans. il Steel 110:82, 84, 88+ My 25 '42

Sheet scrap in cupola charge. Metal Prog 41:75 Ja '42

Streamlining a pipe shop. A. K. Akers. il Pub Works 72:21-3 D '41

Technical progress paces victory march. Steel 110:286+ Ja 5 '42

Turret lathe castings must be perfect; Sterling foundry company for Warner & Swasey co. P. Dwyer. il Foundry 70:58-61+ Ja '42

See also

Cast iron
Cupola furnaces
Foundry practice
Molding machines
Molds (for casting)
Pig iron

Duplex process

Increasing foundry production with existing equipment. D. J. Reese. il Foundry 70:106-7, 187-91 My '42

History

Early engineering and iron-founding in Cornwall. R. Jenkins. Engineering 154:304-5, 325-6 O 16-23 '42; Excerpt (pt. 1). Engineer 174:327-8 O 16 '42

IRON foundries

Small Bessemers may ease steel casting shortage, help foundries. W. A. Phair. il Iron Age 150:88-91 Jl 23 '42

IRON hydroxides

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

Viscosity of certain ferric oxide hydrosols. L. M. Greenstein and A. W. Thomas. bibliog J Chem Phys 10:229-40 Ap '42

IRON in the body

Electrolytic separation of radioactive iron from the blood. J. F. Ross and M. A. Chapin. diag R Sci Instr 13:77-80 F '42

Ferritin and apoferritin. S. Granick and L. Michaelis. bibliog Science 95:439-40 Ap 24 '42

IRON industry and trade

See also

Cast iron
Pig iron
Steel industry and trade

Finance

SEC reports on smaller iron and steel companies. Comm & Fin Chr 155:2130 Je 4 '42

History

Iron pioneer: Henry W. Oliver, 1840-1904. H. O. Evans. 370p bibliog(p344-7) $3.50 Dutton '42

Taylor-Wharton started making iron before United States was born; pioneered high-manganese steel in this country. il Steel 111:53-5+ O 19 '42

When charcoal iron industry held sway. il Steel 111:80, 83+ Ag 3; 78, 80+ Ag 10 '42

See also

Iron founding—History
Iron metallurgy—History

Securities

Record volume for steel; position of leading stocks. Mag of Wall St 69:552-3 F 21 '42

Taxes and post-war doubts weigh heavily on steels; wide variations in earnings and dividend prospects; position of leading steel and iron stocks. Mag of Wall St 70:500-1+ Ag 22 '42

Statistics

Review of the iron ore industry. P. Butler. il Min Cong J 28:39-41 F '42

See also

Iron ores—Statistics
Pig iron—Statistics

Canada

Canada's industrial growth in '41 above any earlier 10-year period. Steel 110:429-30 Ja 5 '42

Germany

Iron and steel in Nazi Germany. Engineer 174:342-4 O 23 '42

Great Britain

Bulk allocations to manufacturers for production. Engineer 172:419-20 D 12 '41

Iron and steel in 1941. Economist 142:sup26 Mr 14 '42

North-Lincolnshire iron and steel industry and research. J. Henderson. Iron & Steel Inst J 145:43-50 bibliog (p48-50) no 1 '42; Same, without bibliog. Engineering 153:405-6 My 22 '42; Excerpts. Engineer 173:426 My 22 '42; Blast F & Steel Pl 30:903-4 Ag '42

IRON industry and trade—*Continued*

Peru

Peru plans iron production. For Comm W 7:20 My 16 '42

Sweden

Producing ferro-alloys and pig iron in Sweden; abstract. B. Kalling and A. Lindblad. Metals & Alloys 16:482+ S '42

Sweden's iron and steel production during the first year of the war. For Comm W 8:24 Jl 25 '42

Texas

East Texas to become a pig iron producer. G. H. Anderson. il map Min & Met 23:417-19 Ag '42

United States

Business behavior, 1919-1922; iron and steel and their principal users. W. F. Payne. bibliog J Business 15:sup133-93 Jl-O '42

Changing pattern of industry. il Adv & Sell 35:38+ O '42

Iron and steel developments in relation to the war emergency. W. A. Haven. il Min & Met 23:107-12 F '42; Same cond. Blast F & Steel Pl 30:76-9 Ja '42

Iron output 7% over rated capacity seen a possibility in '42. T. C. Campbell and B. W. Corrado. Iron Age 149:76-8 Ja 22 '42

War production board makes recommendations for increase in iron and steel production. Blast F & Steel Pl 30:888-91 Ag '42

WPB meeting explains how order M-126 will operate; iron and steel conservation order. Iron Age 149:85-7 My 21 '42

When charcoal iron industry held sway. il Steel 111:80, 83 Ag 3; 78, 80+ Ag 10 '42

Western states

Development of western iron and steel industry. J. R. Mahoney. map Steel 111:79, 82, 84, 100-4 S 21 '42

IRON metallurgy

Audit of the carbon, oxygen and hydrogen in an iron blast furnace. J. S. Fulton. Blast F & Steel Pl 30:83-8, 233-7, 339-44 Ja-Mr '42

Blast furnace for production of silvery iron has novel features. B. H. Booth. il Blast F & Steel Pl 30:662-3 Je '42

Boron, a new vitamin for steel and cast iron. N. F. Tisdale. il Metal Prog 41:330-1 Mr '42

Desulphurizing at the blast furnace. G. S. Evans. diags Iron Age 149:45-7 Ap 30 '42

Desulphurizing pig iron; report of German research. il Iron Age 149:45-8 Ap 9 '42

Dry blast and production for war; air conditioning for blast furnaces. R. VD. Dunne. diag Refrig Eng 44:19-22, 58; Discussion. 58, 60 Jl '42

Economical alloying of gray cast iron. R. G. McElwee and T. E. Barlow. il Foundry 70: 54-5+ Je '42; Excerpts. Metals & Alloys 16: 730+ O '42

Emergency production methods used by the German iron and steel industry. B. P. Planner. Min & Met 23:466 S '42

Ford motor company new process for producing iron from low-grade ores. Chem Ind 51:71 Jl '42

Foreign solutions for scrap deficiencies. H. Cowes. Iron Age 150:64+ Ag 6 '42

Future possibilities of Mesaba magnetite sinter. G. W. Hewitt. Blast F & Steel Pl 30:753-7+ Jl '42

Inside the blast furnace. F. Hartmann. Metals & Alloys 15:842 My '42

Iron and steel developments in relation to the war emergency. W. A. Haven. il Min & Met 23:107-12 F '42; Same cond. Blast F & Steel Pl 30:76-9 Ja '42

Iron-ore beneficiation, 1941. L. J. Erck. Eng & Min J 143:82-3 F '42

Iron output 7% over rated capacity seen a possibility in '42. T. C. Campbell and B. W. Corrado. Iron Age 149:76-8 Ja 22 '42

Manufacture of silvery pig iron by the Jackson iron and steel company. B. H. Booth. il Blast F & Steel Pl 30:877-80, 885-7+ Ag '42

Modern practice in rotary kiln sintering. S. G. Thyrre. il diags Blast F & Steel Pl 29: 324-9+ Mr '41; Excerpts. Rock Prod 45: 84+ Ag '42

Outline of the metallurgy of iron and steel. H. K. Ihrig. 3d ed 80p bibliog(p80) Globe steel tubes co, 3839 W. Burnham st, Milwaukee '41

Producing pig iron for the trade; E. & G. Brooke iron company. W. H. O'Connell. il Comp Air M 47:6815-18 Ag '42

Rapid metallurgy in war production; vs. new equipment. G. S. Evans. il Iron Age 149: 31-5 Ap 23 '42

Recent developments in desulphurizing cast iron. G. S. Evans. il Steel 110:82, 84, 88+ My 25 '42

Recent developments in the iron ore industry and blast furnace practice. T. L. Joseph. il diag Blast F & Steel Pl 30:43-7+ Ja '42

Reducing iron ore with hydrogen. M. H. Kalina and T. L. Joseph. il Iron Age 148: 39-43 D 11 '41

Solubility of iron oxide in liquid iron. J. Chipman and K. L. Fetters. bibliog diag Am Soc for Metals Trans 29:953-67; Discussion. 967-8 D '41

Swedish sponge iron plant used magnetite concentrates. F. F. Foss. Iron Age 150:136 Ag 13 '42

Use of sinter to increase blast furnace output. il Steel 110:107-8 My 11 '42

Vanadium pig iron from titaniferous magnetite. F. E. Lathe. Eng & Min J 143:77 Ap '42

See also

Blast furnaces
Case hardening
Cast iron
Foundry practice
Galvanizing
Iron alloys
Iron founding
Iron mines and mining
Iron works
Pig iron
Sintering
Slag
Steel metallurgy
Wrought iron

Bibliography

List of bibliographies, special reports and translations. Iron & Steel Inst J 144:i-vi no 2 '41

Electrometallurgy

Iron research yields method of using low-grade ore; Ford experiments. Sci Am 166: 175 Ap '42

History

Iron and war (cont). F. T. Sisco. Min & Met 23:35, 305, 515, 604-5 Ja, My, O, D '42

IRON mines and mining

See also

Iron ores

Brazil

Brazil; exceptional reserves of iron, manganese, and nickel. E. A. Teixeira. il maps Eng & Min J 143:89-93 Ag '42

Brazil's first modern steel plant. C. H. Vivian. il plan Comp Air M 47:6852-8 O '42

Great Britain

Excavating machinery in the ironstone fields. W. Barnes. il Engineer 174:108-11, 128-9, 144-6, 164-6 Ag 7-28 '42

Lake Superior region

Dozen new iron ore mines to raise year's output by 1,634,000 tons. Steel 111:61-2 S 7 '42

Michigan

Champion mine's old stockpiles yield ore in emergency. il Eng & Min J 142:41 N '41

Mining on the Menominee; with tabulated data on mining practice. A. H. Hubbell. il map Eng & Min J 143:51-5 Ja '42

Model plant for the Sherwood iron mine. R. D. Satterley. il plans Eng & Min J 143:43-7 My '42

Minnesota

Recent developments in the iron ore industry and blast furnace practice. T. L. Joseph. il diag Blast F & Steel Pl 30:43-7+ Ja '42

IRON mines and mining—Minnesota—*Continued*

Truck haulage in Mesabi open-pit practice. R. W. Whitney. il Eng & Min J 143:52-5 Je '42

Trucks in open pit mining observe "safety first" on the Mesabi range. S. E. Sullivan. il Min Cong J 28:22-4 O '42

New York (state)

Titaniferous Adirondack ores being reworked. F. J. Oliver. il map Iron Age 149:53-9 Mr 5 '42

Ontario

Algoma steel corporation, ltd.; its products have promoted the industrial growth of Canada. C. Longenecker. il Blast F & Steel Pl 30:112-15 Ja '42

Philippine Islands

Iron mine in the Philippines; the Gold Star on Marinduque. W. F. Boericke. il Eng & Min J 143:42-3 Ja '42

Scotland

Wartime iron ore mining in Scotland. Engineer 173:395 My 8 '42

United States

Country's iron ore mines are meeting requirements of Nation's steel mills; abstract. M. D. Harbaugh. Iron Age 150:51 O 8 '42

Wisconsin

Slusher hoists aid in reducing tramming hazards; Montreal iron mine in Wisconsin. D. E. Fritz. il diag Min Cong J 28:20-4 Ag '42

IRON ores

Alkalic rocks of Iron Hill, Gunnison county, Colorado. E. S. Larsen. bibliog diags map U S Geol S Professional Pa 197-A:1-64, pl 1-3; pa 40c Supt. of doc. '42

Open hearth melting stock direct from iron ore. diags plan Blast F & Steel Pl 30:sup 40-2 Ap '42

Origin of banded iron deposits; a suggestion. W. G. Woolnough. bibliog Econ Geol 36:465-89 Ag '41; Discussion. J. A. Dunn. 37:426-30 Ag '42

Preparation and use of iron ores for high hot metal heats. R. W. Tindula. Blast F & Steel Pl 30:763-8 Jl '42

Recent developments in the iron ore industry and blast furnace practice. T. L. Joseph. il diag Blast F & Steel Pl 30:43-7+ Ja '42

Reducing iron ore with hydrogen. M. H. Kalina and T. L. Joseph. il Iron Age 148:39-43 D 11 '41

Shortage of high-grade iron ore or sinter for use in open-hearth furnaces may become acute in 1943. Steel 111:40+ O 19 '42

U.S. Steel has record ore production in 1941. Blast F & Steel Pl 30:255 F '42

War hastens research on low grade iron-bearing rock, taconite. Iron Age 150:89 Ag 6 '42

See also

Hematite
Iron mines and mining
Magnetite
Pyrite
Pyrrhotite

Analysis

Colorimetric determination of phosphorus in iron ore. E. J. Center and H. H. Willard. Ind & Eng Chem Anal ed 14:287-8 Ap 15 '42

Prices

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:359 Ja 5 '42

Ores prices. Published in weekly numbers of Iron age

Statistics

How much iron ore? B. W. Corrado. il map Iron Age 149:54-60 Je 25 '42

Ore movement at highest peak. C. N. Hickok. Blast F & Steel Pl 30:151 Ja '42

Review of the iron ore industry. P. Butler. il Min Cong J 28:39-41 F '42

Shipments, stocks, and consumption of Lake Superior iron ore, United States and Canada, 1940-April 1942; chart. Survey of Cur Business 22:2 Jl '42

Transportation

Auxiliary ore route in North set. Iron Age 150:122 Ag 13 '42

Government orders construction of sixteen Great Lakes iron ore carriers. Steel 110:48 Je 29 '42

Handling the vital ore movement; Great Northern. il map Ry Age 112:371-4 F 14 '42

Iron ore requirements expanding; shipments may exceed 85,000,000 tons. il Steel 110:50-1 Mr 9 '42

Keep the ore shipments going on the Lakes. F. M. Patterson. Pub Util 30:151-6 Jl 30 '42

Leon Fraser, Great Lakes ore carrier. il Marine Eng 47:124-7 S '42

New iron route; WPB prepares to make Escanaba on Lake Michigan a big transshipment point. Business Week p18-19 Ag 15 '42

New rail route for ore from Superior. Ry Age 113:278 Ag 15 '42

Ore carriers launched at Lakes yards. il Marine Eng 47:124-6 My '42

Ore gets the ships. Business Week p17-18 My 16 '42

Ore shipments may by-pass locks at Sault Ste Marie. Blast F & Steel Pl 30:1044 S '42

Overland ore route to by-pass Soo locks; for tonnage and emergency. map Steel 111:67 Ag 17 '42

Pittsburgh steamship company making record in carrying ore. Blast F & Steel Pl 30:908 Ag '42

Power equipment of the ore carrying steamer Leon Fraser. Blast F & Steel Pl 30:449-50 Ap '42

Safeguarding the ore flow; Escanaba will get two new loading docks. maps Business Week p18-19 O 10 '42

Speeds ore shipments by opening up new waterway; new ship canal, Keeweenaw waterway. R. B. Williams. il map Steel 111:96, 98 Ag 3 '42

Third giant iron ore carrier launched; lake fleet increased by seven vessels. il Steel 110:28 Ap 27 '42

Alaska

Extensive iron ore deposits in Alaska. Blast F & Steel Pl 30:96-7 Ja '42

Possible Pacific Northwest iron and steel industry; iron ore deposits in Kasaan peninsula. Science 95:sup13 Ja 9 '42

Brazil

Brazilian metals. Economist 142:357-8 Mr 14 '42

Lake Superior region

Federal-financed concentrating plants essential to future supply; abstract. E. W. Davis. il Steel 111:26-9 O 26 '42

How much iron ore? B. W. Corrado. il map Iron Age 149:54-60 Je 25 '42

Iron ore requirements expanding; shipments may exceed 85,000,000 tons. il Steel 110:50-1 Mr 9 '42

Iron ore shipped from 165 Lake Superior mines in 1941. Steel 110:56 Mr 23 '42

Lake ore shipments by grades, 1941. Eng & Min J 143:56 Je '42

Ore movement at highest peak. C. N. Hickok. Blast F & Steel Pl 30:151 Ja '42

Michigan

Iron research yields method of using low-grade ore; Ford experiments. Sci Am 166:175 Ap '42

Manufacture of silvery pig iron by the Jackson iron and steel company. B. H. Booth. il Blast F & Steel Pl 30:878-80 Ag '42

Minnesota

Future possibilities of Mesaba magnetite sinter. G. W. Hewitt. Blast F & Steel Pl 30:753-7+ Jl '42

Manganese for emergency use on the Cuyuna range. F. F. Grout. Eng & Min J 143:43-4 Jl '42

IRON ores—Minnesota—*Continued*

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; laboratory experiments on sulfur dioxide-sulfuric acid leaching of black and brown manganiferous iron ores of the Cuyuna range. C. T. Anderson. U S Bur Mines Rep of Invest 3649:1-38 '42

New York (state)

Titaniferous Adirondack ores being reworked. F. J. Oliver. il map Iron Age 149:53-9 Mr 5 '42

Ontario

Geology of the Josephine mine. E. L. Brown and W. F. Morrison. il plan map Can Min J 63:5-9 Ja '42

In the Steeprock area; résumé of geological work and iron ore exploration. E. R. Rose. bibliog Can Min J 63:292-5 My '42

Steep rock iron. Business Week p79-80 O 24 '42

Texas

East Texas to become a pig iron producer. G. H. Anderson. il map Min & Met 23:417-19 Ag '42

IRON oxides

Ammonia synthesis; efficiency of iron catalysts. S. Lachinov. Chem Age (Lond) 46:304 Je 20 '42

Burnt oxide for purification. G. Dougill. Gas J (Lond) 238:166+; Discussion. 169-70 Ap 29 '42

Depolarization of the Tyndall-scattered light of bentonite and ferric oxide sols. C. R. Hoover, F. W. Putnam and E. G. Wittenberg. bibliog il diag J Phys Chem 46:81-93 Ja '42

Desulphurization in the open-hearth. F. W. Scott and T. L. Joseph. bibliog il Metals & Alloys 15:745-50, 976-8 My-Je '42

Effect of iron oxide on melting of glass. R. L. Shute and A. E. Badger. bibliog Am Cer Soc J 25:355-7 Ag 1 '42

Effect of iron oxide on properties of soda-dolomite lime-silica glass. Am Cer Soc J 25:401-8 O 1 '42; Abstracts. Glass Ind 23:182 My '42; Cer Ind 38:33-4 My '42

Effect of iron oxide on tensile strength of porcelain enamel. A. M. Johnsen and J. J. Canfield. bibliog il Am Cer Soc J 25:29-32 Ja '42

Effect of small concentrations of hexametaphosphate on iron oxide surfaces. F. Hazel. bibliog J Phys Chem 46:516-24 Ap '42

Elimination of oxide films on ferrous materials by heating in vacuum. V. C. F. Holm. bibliog pls J Research Nat Bur Stand 28:569-79 My '42

Equilibrium studies in the system FeO—Al_2O_3—SiO_2. R. B. Snow and W. J. McCaughey. bibliog il diags Am Cer Soc J 25:151-60 Mr 15 '42

Fe $K\beta'$ and $K\beta_5$ lines of FeS_2 and Fe_2O_3. J. C. McDonald. Phys R 60:912 D 15 '41

Iron oxide in enamel glass as dissolved from the metal base. A. I. Andrews and H. R. Swift. il Am Cer Soc J 25:217-22 My 1 '42

Oxide purification; some wartime experiments. A. J. Doran. Gas J (Lond) 237:169-70, 210, 215 F 4-11 '42

Reversible aggregations of colloidal particles; the isothermal and reversible change of absorption in thixotropic iron oxide sols. W. Heller and G. Quimfe. bibliog diag J Phys Chem 46:765-77 Je '42

Salt spray evaluation of oiled black oxide coatings on steel. A. K. Graham. Metal Finishing 40:254-5 My '42

Solubility of iron oxide in liquid iron. J. Chipman and K. L. Fetters. bibliog diag Am Soc for Metals Trans 29:953-67; Discussion. 967-8 D '41

Some basic slag systems. R. Hay and J. White. bibliog Blast F & Steel Pl 30:446-8+ Ap '42

Some modern developments in dry-box purification. T. P. Keller. Gas Age 88:31-3+ D 18 '41

Sulfur dioxide as a raw material; chlorination of metal oxides with sodium chloride and sulfur dioxide. H. F. Johnstone and R. W. Darbyshire. bibliog diag Ind & Eng Chem 34:280-6 Mr '42

System CaO-FeO-Al_2O_3-SiO_2; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

See also
Magnetite

IRON perchlorate

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

IRON phosphates

Study of the reaction of ferric ion with orthophosphate in acid solution with thiocyanate as an indicator for ferric ions. O. E. Lanford and S. J. Kiehl. bibliog Am Chem Soc J 64:291-6 F '42

IRON plating

Electrodeposition of iron-tungsten alloys from an acid plating bath. M. L. Holt and R. E. Black. bibliog il Electrochem Soc Trans 82(preprint 27):319-29 O '42; Abstract. Chem & Met Eng 49:169 N '42

Iron deposition; abstract. C. T. Thomas. Chem & Met Eng 48:163-4 N '41

Silver plating as a substitute coating in the present emergency; electrolytic iron is suggested as an undercoat. C. B. F. Young. bibliog Steel 110:91, 107-9 My 4 '42

IRON powder. See Iron, Powdered

IRON research

Desulphurizing pig iron; report of German research. il Iron Age 149:45-8 Ap 9 '42

Development of sponge iron process would retard war effort; Research council's committee reports to WPB. Steel 111:45-7 Jl 20 '42

North-Lincolnshire iron and steel industry and research. J. Henderson. Iron & Steel Inst J 145:43-50 bibliog (p48-50) no 1 '42; Same, without bibliog. Engineering 153:405-6 My 22 '42

Sponge iron; an unpromising substitute for scrap in steel production. C. Williams. il Min & Met 23:467-9 S '42

War hastens research on low grade iron-bearing rock, taconite. Iron Age 150:89 Ag 6 '42

Washington prods under tombstones in graveyard of sponge iron processes. il Iron Age 150:81-3 Jl 23 '42

IRON silicates

Binary system $CaSiO_3$-diopside and the relations between $CaSiO_3$ and akermanite. J. F. Schairer and N. L. Bowen. Am J Sci 240:725-42 O '42

System CaO-FeO-Al_2O_3-SiO_2; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

IRON, steel and allied industries of California

Annual meeting, 18th, Del Monte, Feb. 12-13. Steel 110:50-2 F 23 '42

IRON sulfates

Ferric sulphate; recent applications to pickling stainless steel. Automobile Eng 32:289-90 Jl '42

Metal pickling with ferric sulfate. J. O. Percival, C. P. Dyer and M. H. Taylor. bibliog il Ind & Eng Chem 33:1529-35 D '41

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42

IRON sulfides

Fe $K\beta'$ and $K\beta_5$ lines of FeS_2 and Fe_2O_3. J. C. McDonald. Phys R 60:912 D 15 '41

See also
Pyrite
Pyrrhotite

IRON thiocyanate
Study of the reaction of ferric ion with orthophosphate in acid solution with thiocyanate as an indicator for ferric ions. O. E. Lanford and S. J. Kiehl. bibliog Am Chem Soc J 64:291-6 F '42

IRON workers
See also
Foundries—Employees
Steel workers

IRON works
See also
Blast furnaces
Foundries
Steel works

Accounting

Economic control of iron and steel works. F. L. Meyenberg. 332p 25s Chapman & Hall, London '42

Equipment

Producing pig iron for the trade; E. & G. Brooke iron company. W. H. O'Connell. il Comp Air M 47:6815-18 Ag '42

California

Joshua Hendee iron works, Sunnyvale, California retools and expands. Business Week p22 My 2 '42

IRONE
Observations on the absorption spectra of terpenoid compounds; irone. A. E. Gillam and T. F. West. Chem Soc J p95-8 F '42

Observations on the absorption spectra of terpenoid compounds; the thiosemicarbazones of irone, eucarvone, and some related ketones. A. E. Gillam and T. F. West. Chem Soc J p483-6 Ag '42

IRONS, Martin
Great Southwest strike. R. A. Allen. 174p bibliog(p164-8) Univ. of Texas, Austin '42

IRONWORK, Artistic
Early ironwork of Charleston. A. Deas. 111p bibliog(p111) $6 Bostick & Thornley, Columbia, S.C. '41

IRRADIATED milk. See Milk, Irradiated

IRRADIATION
Ultraviolet absorption spectra of nitrogenous heterocycles; effect of *p*H and irradiation on the spectra of isoguanine and 2-hydroxy-6,8-diaminopurine. M. M. Stimson. bibliog Am Chem Soc J 64:1604-5 Jl '42

Ultraviolet irradiation by means of linear high pressure mercury lamps. W. T. Anderson, jr. Opt Soc Am J 32:121-2 F '42

IRRIGATION
Classification of irrigable lands. W. W. Johnston. map Am Soc C E Proc 68:667-82 My '42; Discussion. 68:781-2, 1452-4 My, O '42

Hydraulic structures; model-prototype conformity. J. E. Warnock and H. G. Dewey, jr. il diags Am Soc C E Proc 68:1269-94 O '42

Irrigation conduit gunited on simple movable forms. C. R. Browning. il Civil Eng 12:272-3 My '42

Silt problems. W. E. Corfitzen. il Civil Eng 12:616-19 N '42

See also
Dams
Drainage
Irrigation canals
Irrigation water
Soil moisture

History

Mexican irrigation in the sixteenth century. F. Gomez-Perez. il Civil Eng 12:24-7 Ja '42

California

Central Valley rounds into shape. T. L. North. Pub Util 30:478-86, 551-8 O 8-22 '42

General features of Friant dam. R. B. Williams. il map Civil Eng 12:81-3 F '42

Water, water, everywhere; multiple-purpose Central Valley project. A. R. Boone. il map Sci Am 166:178-9 Ap '42

Colorado

Water power for war; west portal of 13-mile Continental Divide tunnel, key link in Colorado-Big Thompson project. T. L. Wells. il diag map Explosives Eng 20:204-11 Jl '42

Great Plains region

Integrating the use of irrigated and grazing land in the northern Great Plains. R. E. Huffman and J. L. Paschal. J Land & Pub Util Econ 18:17-27 F '42

India

Irrigation in India. B. Darley. Engineering 152:427-8 N 28 '41; Same cond. Engineer 172:360 N 21 '41

Mexico

Construction hits new high in Mexico. A. N. Carter. il Eng N 128:610-11 Ap 23 '42
Mexican irrigation in the sixteenth century. F. Gomez-Perez. il Civil Eng 12:24-7 Ja '42

Nebraska

Kingsley dam. il diags Engineer 174:35-8, 46-8 Jl 10-17 '42

Netherlands Indies

Engineer in the East Indies. C. A. M. Smith. il map Engineer 173:218-19+ Mr 13 '42

United States

Five irrigation projects supply a million kilowatts. H. L. Ickes. Power 86:691c+ S '42
Headline projects of 1941. il Eng N 128:124-9 Ja 15 '42

Washington (state)

Grand Coulee; irrigation; its story in pictures and diagrams. Elec West 87:35 N '41

IRRIGATION canals
Central Valley project. il map Engineer 173:518-21 Je 19 '42
How to line canals with brick; southern Texas irrigation canals. W. I. Gilson. il Eng N 128:350-2 F 26 '42
Machine methods for trimming subgrade and placing concrete canal lining. O. G. Boden. il Am Concrete Inst J 13:177-80 N '41
Transit mixers used effectively on the Contra Costa canal. O. G. Boden. il Am Concrete Inst J 13:269-72 Ja '42

IRRIGATION water
Quick motor change prevents water shortage; Arizona irrigation district. J. C. Redd. il Power 85:922 D '41
Salt in irrigation water. R. A. Hill. diags Am Soc C E Proc 67:975-90 Je '41; Discussion. 67:1385-8, 1490-6, 1957-67 S-O, D '41

IRVING trust company
Annual report, 1941. Comm & Fin Chr 155:444 Ja 29 '42

IRWIN, William Henry, 1873-
Making of a reporter. W. Irwin. 440p $3.75 Putnam '42

ISLANDS
Lost lands of escape; islands to which the white man habitually retreated from his own civilization. il Fortune 25:96-101 My '42

ISLANDS of the Pacific
Mosquitoes, malaria and the war in the Pacific. E. P. Mumford. map Science 96:191-4 Ag 28 '42
Ocean outposts. H. Follett. 133p $2 Scribner '42
Ramparts of the Pacific. H. Abend. 332p $3.50 Doubleday '42

ISOAMYL alcohol
Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

ISOAMYL chloride
Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

ISOBUTANE
Alkylation of paraffins at low temperatures in the presence of aluminum chloride. H. Pines, A. V. Grosse and V. N. Ipatieff. diags Am Chem Soc J 64:33-6 Ja '42
Blending to improve refinery products; road tests provide important data on motor fuel; net effect of blending with butane and *iso*-butane. R. G. Lovell. il Pet Eng 13:41+ F '42
Compressor-absorption type gasoline plant produces four products. F. H. Love. il Pet Eng 13:149-50, 152 My '42
Conversion of gasoline plants to increase isobutane extraction. W. L. Rifenberick. flow sheets Pet Eng (Annual no) 13:150+ [Jl] '42
Economics of the alkylation process in the production of high-octane gasoline. R. G. Lovell. flow diags Pet Eng 13:27-30 Mr '42
Ionization and dissociation by electron impact: normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42
Isolation of hydrocarbon stocks for 100-octane aviation fuel. W. L. Nelson. diags Oil & Gas J 40:38-9 Ja 8 '42
Methane-isobutane system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1008-13 Ag '42
New process for catalytic conversion of normal into iso-butane. Nat Pet N 34:R194-5 Je 10 '42
New process makes iso-butane supply for aviation gas. Nat Pet N 34:16 My 27 '42
Shell isomerization process for producing isobutane. L. J. Coulthurst. flow sheet Nat Pet N 33:R403-4+ D 24 '41; Same. Pet Eng 13:113, 116+ Ja '42
Viscosity of propane, butane, and isobutane. M. R. Lipkin, J. A. Davison and S. S. Kurtz, jr. bibliog diags Ind & Eng Chem 34:976-8 Ag '42

Transportation

Would convert tank cars to haul liquefied gas. Ry Age 112:275 Ja 24 '42

ISOBUTENE
Catalytic polymerization of olefins in the presence of phosphoric acid. A. Farkas and L. Farkas. bibliog diag Ind & Eng Chem 34:716-21 Je '42
Compressibility of and an equation of state for gaseous isobutene. J. A. Beattie, H. G. Ingersoll and W. H. Stockmayer. bibliog Am Chem Soc J 64:548-50 Mr '42
Hydration of isobutene in dilute nitric acid. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1938-40 Ag '42
Hydration of the ethylenic linkage; the equilibrium between isobutene, *t*-butyl alcohol and water. C. W. Smart and others. Am Chem Soc J 63:3000-2 N '41
Photochemistry of isobutene. W. F. Keiffer and J. P. Howe. bibliog Am Chem Soc J 64:1-7 Ja '42
Vapor pressures and critical constants of isobutene. J. A. Beattie, H. G. Ingersoll and W. H. Stockmayer. bibliog Am Chem Soc J 64:546-8 Mr '42

Analysis

Methods of light hydrocarbon analysis. J. J. Savelli, W. D. Seyfried and B. M. Filbert. bibliog diags Ind & Eng Chem Anal ed 13:868-79 D 15 '41

ISOBUTYL alcohol
Experimental study of individual transfer resistances in countercurrent liquid-liquid extraction. A. P. Colburn and D. G. Welsh. il Am Inst Chem Eng Trans 38:179-201; Discussion. 201-2 F '42
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:61 Jl 6 '42

ISOBUTYLENE
Cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1192-9 O '42
Isobutylene recovery urged to increase rubber output. diag Oil & Gas J 41:15 Ag 6 '42
New process will hike isobutylene output. Nat Pet N 34:39 Ag 5 '42
Short isobutylene supply to curtail Flexon production. Nat Pet N 34:16 S 9 '42

ISOBUTYRIC acid
Discontinuities in properties of liquid systems. G. Antonoff, M. Chanin and M. Hecht. bibliog J Phys Chem 46:486-91 Ap '42
Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

ISOCYANODICHLORIDES
Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides. G. M. Dyson and T. Harrington. Chem Soc J p150-3 F '42
Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides; the addition of chlorine to α-naphthylthiocarbimide and the structure of the compounds obtained. G. M. Dyson and T. Harrington. Chem Soc J p374-5 My '42

ISODURYLALDEHYDE
Reaction of β-isodurylaldehyde cyanohydrin with phenylmagnesium bromide. A. Weissberger and D. B. Glass. bibliog Am Chem Soc J 64:1724-7 Jl '42

ISODURYLIC acid
Resonance and the hindered carbonyl-Grignard reaction. R. T. Arnold, H. Bank and R. W. Liggett. bibliog Am Chem Soc J 63:3444-6 D '41

ISOELECTRIC point
General theory of the isoelectric point. T. L. Hill. bibliog J Phys Chem 46:417-28, 597-605, 621-4 Mr, My-Je '42

ISOGUANINE
Ultraviolet absorption spectra of nitrogenous heterocycles; effect of *p*H and irradiation on the spectra of isoguanine and 2-hydroxy-6,8-diaminopurine. M. M. Stimson. bibliog Am Chem Soc J 64:1604-5 Jl '42

ISOMATE process. See Gasoline—Manufacture

ISOMERISM
Chemical effects of the nuclear isomeric transition in bromine; evidence for atomic bromine and some of its properties. D. DeVault and W. F. Libby. bibliog Am Chem Soc J 63:3216-24 N '41
Coupling of *m*-halogenophenols with diazotised aniline, and the existence of chromoisomerism among the 3-halogeno-4-benzeneazophenols. H. H. Hodgson and G. Turner. Chem Soc J p433-5 Jl '42
Diastereoisomerism of the 9,10,12-trihydroxystearic acids and the geometric configurations of ricinoleic and ricinelaidic acids. J. P. Kass and S. B. Radlove. bibliog Am Chem Soc J 64:2253-7 O '42
Heat capacity and vapor pressure hysteresis in liquid isopentane; isomers due to hindered rotation. J. G. Aston and S. C. Schumann. bibliog Am Chem Soc J 64:1034-8 My '42
Isomers of crystal violet ion; their absorption and re-emission of light. G. N. Lewis, T. T. Magel and D. Lipkin. bibliog Am Chem Soc J 64:1774-82 Ag '42
Molecular configurations in rotational isomerism. S. Mizushima, Y. Morino and M. Takeda. bibliog J Chem Phys 9:826 N '41
New stereoisomers of methylbixin. L. Zechmeister and R. B. Escue. Science 96:229-30 S 4 '42
Occurrence of stereoisomeric carotenoids in nature. L. Zechmeister and W. A. Schroeder. Science 94:609-10 D 26 '41
Polymerization of drying oils; comparative rates of polymerization of esters of isomeric octadecatrienoic acids at 275°C. in vacuum. W. C. Ault and others. bibliog Ind & Eng Chem 34:1120-3 S '42

ISOMERISM—*Continued*

Structure-property relationships in some isomeric octanols. G. L. Dorough and others. bibliog Am Chem Soc J 63:3100-10 N '41

See also

Molecular rearrangements
Optical rotation
Tautomerism

ISOMERIZATION

Abnormal Grignard reactions; enolizing and reducing action of Grignard reagents upon diisopropyl ketone. F. C. Whitmore and R. S. George. bibliog Am Chem Soc J 64:1239-42 Je '42

Catalytic isomerization will put nation far in lead in aviation gasoline supply. G. B. Murphy. Nat Pet N 33:R401-2 D 24 '41

Conjugated diolefins by double bond displacement. A. L. Henne and A. Turk. bibliog Am Chem Soc J 64:826-8 Ap '42

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

Enolization in the Reformatsky reaction. M. S. Newman. bibliog Am Chem Soc J 64:2131-3 S '42

Free energies and equilibria of isomerization of the butanes, pentanes, hexanes, and heptanes. F. D. Rossini, E. J. R. Prosen and K. S. Pitzer. bibliog J Research Nat Bur Stand 27:529-41 D '41

Grignard reactions; sterically hindered aliphatic carbonyl compounds; enolization studies. F. C. Whitmore and L. P. Block. bibliog Am Chem Soc J 64:1619-21 Jl '42

Isomerization equilibrium among the branched chain pentenes. R. H. Ewell and P. E. Hardy. diags Am Chem Soc J 63:3460-5 D '41

Isomerization of β-carotene; isolation of a stereoisomer with increased adsorption affinity. A. Polgár and L. Zechmeister. bibliog Am Chem Soc J 64:1856-61 Ag '42

Isomerization of naphthalyl chloride. H. E. French and J. E. Kircher. Am Chem Soc J 63:3270-2 D '41

Isomerization of pure hydrocarbons. G. Egloff, G. Hulla and V. I. Komarewsky. 499p bibliog(p461-73) $9 Reinhold pub. corp. '42

Isomerization of unsaturated hydrocarbons. E. Bergmann. Chem R 29:529-51 bibliog (p548-51) D '41

Isomerizations of polyene acids and carotenoids; preparation of β-eleostearic and β-licanic acids. H. H. Strain. bibliog Am Chem Soc J 63:3448-52 D '41

New process for catalytic conversion of normal into iso-butane. Nat Pet N 34:R194-5 Je 10 '42

Pro-γ-carotene. L. Zechmeister and W. A. Schroeder. bibliog il Am Chem Soc J 64:1173-7 My '42

Shell isomerization process for producing isobutane. L. J. Coulthurst. flow sheet Nat Pet N 33:R403-4+ D 24 '41; Same. Pet Eng 13:113, 116+ Ja '42

Simultaneous chemical reaction and fractional distillation; isomerization. B. Longtin and M. Randall. bibliog diag Ind & Eng Chem 34:292-5 Mr '42

Structure of substituted ethylenes and their isomerization, polymerization and peroxide addition reactions. R. A. Harman and H. Eyring. bibliog J Chem Phys 10:557 Ag '42

Thermodynamics in isomerization. P. Buthod and W. L. Nelson. Oil & Gas J 40:120-1 Mr 26 '42

Vapor phase thermal isomerization of α- and β-pinene. L. A. Goldblatt and S. Palkin. bibliog diag Am Chem Soc J 63:3517-22 D '41

ISOMERIZATION, Heat of

Heats of isomerization of the nine heptanes. E. J. R. Prosen and F. D. Rossini. bibliog J Research Nat Bur Stand 27:519-28 D '41

ISOMERS

Heats of catalytic hydrogenation in solution; apparatus, technique, and the heats of hydrogenation of certain pairs of stereoisomers. R. B. Williams. bibliog diag Am Chem Soc J 64:1395-1404 Je '42

Separation of nuclear isomers. E. P. Cooper. bibliog Phys R 61:1-5 Ja 1 '42

ISOMORPHISM

Isomorphism and allotropy in compounds of the A_2XO_4. M. A. Bredig. bibliog J Phys Chem 46:747-64 Je '42

ISOOCTANE

Effect of pressure on enthalpy of pentane, heptane, and isooctane. E. R. Gilliland and M. D. Parekh. bibliog Ind & Eng Chem 34:360-2 Mr '42

ISOOXAZOLIDINE

*Iso*oxazolidine and tetrahydro-1 : 2-*iso*oxazine. H. King. Chem Soc J p432-3 Jl '42

ISOPENTANE

Heat capacity and entropy, heats of fusion and vaporization and the vapor pressures of isopentane. S. C. Schumann, J. G. Aston and M. Sagenkahn. bibliog Am Chem Soc J 64:1039-43 My '42

Heat capacity and vapor pressure hysteresis in liquid isopentane; isomers due to hindered rotation. J. G. Aston and S. C. Schumann. bibliog Am Chem Soc J 64:1034-8 My '42

Isolation of hydrocarbon stocks for 100-octane aviation fuel. W. L. Nelson. diags Oil & Gas J 40:38-9 Ja 8 '42

P-V-T-x relations of the system propane-isopentane. W. E. Vaughan and F. C. Collins. bibliog Ind & Eng Chem 34:885-90 Jl '42

ISOPHORONE

Response of guinea pigs and rats to repeated inhalation of vapors of mesityl oxide and isophorone. H. F. Smith, jr., J. Seaton and L. Fischer. bibliog J Ind Hygiene 24:46-50 Mr '42

ISOPIESTIC solutions

Activity coefficients of rubidium and cesium sulfates in aqueous solution at 25°. H. H. Cudd and W. A. Felsing. Am Chem Soc J 64:550-1 Mr '42

Activity coefficients of strontium chloride by an isopiestic method. B. A. Phillips, G. M. Watson and W. A. Felsing. bibliog diags Am Chem Soc J 64:244-7 F '42

ISOPRENE

Course of autoxidation reactions in polyisoprenes and allied compounds; hydroperoxidic structure and chain scission in low-molecular polyisoprenes. F. H. Farmer and D. A. Sutton. Chem Soc J p139-48 F '42

Course of autoxidation reactions in polyisoprenes and allied compounds; the structure and reactive tendencies of the peroxides of simple olefins. E. H. Farmer and A. Sundralingam. Chem Soc J p121-39 F '42

Rubber, polyisoprenes, and allied compounds; the molecule-linking capacity of free radicals and its bearing on the mechanism of vulcanisation and photo-gelling reactions. E. H. Farmer and S. E. Michael. Chem Soc J p513-19 Ag '42

Rubber, polyisoprenes, and allied compounds; the synthesis of low-molecular polyisoprenes of the rubber and the squalene type. E. H. Farmer and D. A. Sutton. Chem Soc J p116-21 F '42

ISOPROPYL alcohol

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Influence of solvent on the ultraviolet absorption maximum of vitamin A. K. Morgareidge. bibliog Ind & Eng Chem Anal ed 14:700-2 S 15 '42

Nitromethane-isopropyl alcohol-water system; vapor-liquid equilibria in the ternary system and in the three related binary systems. J. E. Schumacher and H. Hunt. bibliog Ind & Eng Chem 34:701-4 Je '42

Ternary systems involving cyclohexane, water, and isopropyl and normal propyl alcohols. E. R. Washburn and others. bibliog Am Chem Soc J 64:1886-8 Ag '42

ISOPROPYL alcohol—*Continued*

Vapor-liquid equilibrium data on ethyl alcohol-water and on isopropyl alcohol-water. W. M. Langdon and D. B. Keyes. bibliog diags Ind & Eng Chem 34:938-42 Ag '42

ISOPROPYL ether

Recovery of butanol in butanol pulping; effected quantitatively by azeotropic distillation and by extraction with isopropyl ether. A. J. Bailey. bibliog diag Ind & Eng Chem 34:483-5 Ap '42

ISOPROPYLIDENE

Osage orange pigments; improved separation; establishment of the isopropylidene group. M. L. Wolfrom and J. Mahan. Am Chem Soc J 64:308-11 F '42

ISOQUINALDALDEHYDE

Condensation reactions of isoquinaldaldehyde. R. S. Barrows and H. G. Lindwall. Am Chem Soc J 64:2430-2 O '42

ISOQUINOLINE

Chemistry of isoquinolines. R. H. Manske. Chem R 30:145-58 bibliog(102 references, p156-8) F '42

Derivatives of aminoisoquinolines. J. J. Craig and W. E. Cass. bibliog Am Chem Soc J 64:783-4 Ap '42

ISOROTATION. See Optical rotation

ISOSTASY

Mississippi delta, a study in isostasy. A. C. Lawson. bibliog diags Geol Soc Bul 53:1231-54 Ag '42

ISOTHERMS

Equation for the isotherms of pure substances at their critical temperatures. C. H. Meyers. bibliog J Research Nat Bur Stand 29:157-76 Ag '42

ISOTHIOCYANIC acid

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides. G. M. Dyson and T. Harrington. Chem Soc J p150-3 F '42

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides; the addition of chlorine to α-naphthylthiocarbimide and the structure of the compounds obtained. G. M. Dyson and T. Harrington. Chem Soc J p374-5 My '42

ISOTHUJONE. See Dimethylisopropyl cyclopentenone

ISOTOPES

Artificial radioactive isotopes of thallium, lead, and bismuth. K. Fajans and A. F. Voigt. Phys R 60:619-25 N 1 '41

Isotopic weights of sulphur and titanium. T. Okuda and K. Ogata. Phys R 60:690-1 N 1 '41

Mass differences of the fundamental doublets used in the determination of isotopic weights C^{12} and N^{14}. E. B. Jordan. diags Phys R 60:710-13 N 15 '41

Measurement of relative abundance with the mass spectrometer. E. B. Jordan and N. D. Coggeshall. bibliog diags J Ap Phys 13:539-50 S '42

New packing fractions and the packing fraction curve. H. E. Duckworth. bibliog Phys R 62:19-28 Jl 1 '42

Radiofrequency spectrum of indium; nuclear spin of In^{113}. T. C. Hardy and S. Millman. bibliog Phys R 61:459-65 Ap 1 '42

Short history of isotopes and the measurement of their abundances. E. B. Jordan and L. B. Young. bibliog il diags J Ap Phys 13:526-38 S '42

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

Use of uranium lead in the assignment of artificial radioactive isotopes. K. Fajans and A. F. Voigt. bibliog Phys R 60:626-7 N 1 '41

See also

Carbon—Isotopes
Cobalt—Isotopes
Hydrogen—Isotopes
Nickel—Isotopes

ISSAQUEENA, Lake

Underflow studies at Lake Issaqueena. J. W. Johnson. il Civil Eng 12:513-16 S '42

ITALIAN superpower corporation

Annual report. Comm & Fin Chr 155:638 F 10 '42

ITALIANS in Ethiopia

Doctor carries on. T. A. Lambie. 173p $2 Revell '42

ITALIANS in the United States

Alien enemy label lifted from Italians. Comm & Fin Chr 156:1553 O 29 '42

Italian immigrants and their children. E. Corsi. Ann Am Acad 223:100-6 S '42

Some aspects of the effect of the dominant American culture upon children of Italian-born parents. J. W. Tait. 74p bibliog(p56-9) $1.60 Teachers college '42

ITALY

See also

Chemical industries—Italy
Labor laws and legislation—Italy
World war, 1939—Italy

Antiquities

Ancient Ostia; archeologists unearth Rome's once-thriving seaport. A. A. Boyce. il Sci Am 166:70-2 F '42

Civilization

Real Italians; a study in European psychology. C. Sforza. 156p bibliog(p155-6) $2 Columbia univ. press '42

Commerce

Italian commercial policy and foreign trade, 1922-1940. 284p bibliog(p283-4) U.S. Tariff commission, Washington; pa 30c Supt. of doc. '41

Italy's foreign trade. Economist 142:757-8 My 30 '42

Economic conditions

Economics on the Axis. Economist 141:464-5 O 18 '41

Italian wartime economy. il For Comm W 5:6-7, 38-9 O 25; 6+ D 6; 6-7 D 20 '41; 6:3-5 Ja 3 '42

Italy in 1941. Economist 142:sup15-16 Mr 14 '42

Economic policy

Tightening state control in Italy. Economist 141:786-7 D 27 '41

ITTNER, Martin Hill, 1870-

Receives Perkin medal for 1942. por Oil Paint & Drug Rep 140:4 N 17 '41; 141:3+ Ja 12 '42; Chem & Eng N 20:53 Ja 10 '42; Ind & Eng Chem 34:253 F '42

IVES, Charles Edward, 1874-

Became famous composer after leaving insurance field. por East Underw 43:3 Ja 23 '42

IVORY nut

Button, button, who's got the button? Ecuador's vegetable ivory provides the answer for U.S. military uniforms. il For Comm W 6:6-7, 32-3 Ja 31 '42

IXTLE

Mexico's ixtle. Textile Col 64:355 Jl '42

J

J-metal. See Stellite

JACK, William Saunders

This man Jack; gets production in ways that are strange to industry, even in wartime. il Business Week p72-4 Mr 7 '42

JACKS

Dislocated bascule rocked into position; use of hydraulic and asphalt jacks. S. J. Michuda. il diags Eng N 128:557-9 Ap 9 '42

Good tooling speeds jacks; illustrations and text. Am Mach 86:212-13 Mr 19 '42

Heat-treating jack parts. il Am Mach 86:296-7 Ap 2 '42

JACKS—*Continued*

Jacks for aircraft maintenance and other special work. H. Chase. il diags Steel 110:76-7 Ap 13 '42

Pantograph jack for regulator coils. il Elec W 118:1462+ O 31 '42

JACKS, Hydraulic. See Hydraulic jacks

JACKSON, Thomas Jonathan, 1824-1863

Hero: Stonewall Jackson, rebel whose campaigns are military classics. por Fortune 26:102-3 S '42

JACKSON, Michigan

Sewerage

Maintaining open diffuser plates with chlorine. R. B. Jackson. il Water Works & Sewerage 89:380-2 S '42

JACKSON iron and steel company

Manufacture of silvery pig iron by the Jackson iron and steel company. B. H. Booth. il Blast F & Steel Pl 30:877-80, 885-7+ Ag '42

JACKSONVILLE, Florida

Rapid transit

Ready for anything; Jacksonville's motor transit company motor reserve battalion. il Transit J 86:239 Jl '42

JACKSONVILLE gas company

Files integration plan with SEC. Comm & Fin Chr 155:1513 Ap 13 '42

Importance of the Jacksonville case exaggerated. O. Ely. Pub Util 30:562-3 O 22 '42

SEC approves voluntary reorganization as proposed by Company. Comm & Fin Chr 155:2185 Je 8 '42

SEC upheld in suit on simplification; court affirms its right to require new set-up to adjust voting power. Comm & Fin Chr 156:1239 O 5 '42

JACOBS aircraft engine company

Jacobs jumps into big league. J. A. Harris. il Aviation 41:94-6 F '42

JACOBUS, David Schenck, 1862-

A.S.M.E. boiler code committee testimonial dinner to Dr D. S. Jacobus. por Mech Eng 64:153-5 F '42

JADE

Chinese jades in the Stanley Charles Nott collection. S. C. Nott. 536p bibliog(p515-23) lea'tte $50 Stanley C. Nott, Jadeholm, Indian rd, Palm Beach, Fla. '42

JAM

Two changes sought in jam standards. Food Ind 14:73 My '42

JAMAICA

See also

Labor and laboring classes—Jamaica

Economic conditions

Improvement in Jamaica's economic position in 1941. For Comm W 6:14-15 Mr 28 '42

Politics and government

Jamaica's constitution. Economist 142:219 F 14 '42

JAMES, William, 1842-1910

Remembering William James; centennial programs. Science 95:346-7 Ap 3 '42

JAMES river, Virginia

James River drainage area; monograph in preparation. S. S. Negus. Science 95:196-7 F 20 '42

JAPAN

Japan, foe of freedom. S. Nehmer. 32p pa 25c Book-of-the hour co, 395 Broadway, New York '42

Japan rides the tiger. W. Price. 228p $2.50 Day '42

See also

Aeronautics, Military—Japan
Airplanes, Military—Japan
Chemical industries—Japan
Petroleum supply—Japan
Shipbuilding—Japan
Steel industry and trade—Japan
World war, 1939- —Japan

Air force

How good is the Jap air force? C. H. Day. il Aero Digest 40:58-9+ Ja '42

Civilization

Japan in the world crisis. C. J. Stranks. 70p 40c Macmillan '41

Year of the wild boar; an American woman in Japan. H. Mears. 346p $2.75 Lippincott '42

Colonies

Formosa today. A. J. Grajdanzev. 193p pa $1 Inst. of Pacific relations, New York '42

Commerce

Sanctions on Japan. Economist 141:563-4 N 8 '41

Trade agreement ties Indochina's economy to Japan. For Comm W 5:4-5+ N 29 '41

United States imports from Japan and their relation to the defense program and to the economy of the country. 239p U.S. Tariff commission, Washington '41

Commercial policy

Trade policies of foreign countries during 1941. H. Chalmers. For Comm W 6:6+ Ja 17 '42

Defenses

How strong is Japan? N. Barber. 132p 6s G. G. Harrap & co, 182 High Holborn, London, WC 1 '42

Economic conditions

Economic changes in Japan. Nat City Bank p7-11 Ja '42

Japan's economic strength and the Pacific war strategy. V. L. Horoth. il Mag of Wall St 69:302-4+ D 27 '41

Japan's staying power. Economist 141:710-11 D 13 '41

News by countries (cont). For Comm W 5: 16 N 22; 16-17 D 6 '41

U.S. set for Pacific showdown; Nippon's economic plight grows more acute. Business Week p81-2 N 15 '41

Foreign relations

Behind the face of Japan. U. Close. 427p $4 Appleton-Century '42

Dirty work at the crossroads. map Economist 141:678-9 D 6 '41

Far Eastern defence. Economist 141:495-6 O 25 '41

Far Eastern front. Economist 141:584-5 N 15 '41

Fight for the Pacific. M. J. Gayn. 378p $3.50 Morrow '41

Fire in the Pacific. S. Harcourt-Smith. 236p $2 Knopf '42

Goodbye Japan. J. Newman. 338p $2.50 L. B. Fischer pub. corp, New York '42

Japan: a world problem. H. J. Timperley. 150p bibliog(p141-6) $1.75 Day '42

Japan's dream of world empire; the Tanaka memorial. C. Crow, ed. 118p bibliog(p116-18) $1.25 Harper '42

Japan's purpose in Asia. F. Whyte. 61p pa 25c Oxford '41

Tokyo's one-way road to war. Business Week p64-6 N 22 '41

See also

Chinese-Japanese war

China

China and Japan. 3d ed 163p pa $1.25 Oxford '42

Russia

Far Eastern neutrality. Economist 142:716-17 My 23 '42

Russia and Japan. M. Hindus. 254p $2 Doubleday '42

United States

America's Asiatic Pandora; Commodore Matthew Calbraith Perry took the lid off Japan. il Fortune 26:100-1 Ag '42

Great betrayal; President Roosevelt's report on Japanese aggression. 15p pa 10c Am. council on public affairs, Washington, D.C. '41

JAPAN—Foreign relations—United States—*Continued*

Japan can have its choice. E. Blair. Barron's 21:4 N 24 '41

Our enemy Japan. W. Fleisher. 236p $2 Doubleday '42

Our Far Eastern record. v. 2. A reference digest on American policy. F. Brodie, ed. 78p pa 15c Inst. on Pacific relations, New York '42

President in message to Congress reviews events preceding Japanese attack on U.S. Comm & Fin Chr 154:1557+ D 18 '41

President Roosevelt sees long, hard war but voices confidence in final victory; text of address to the American people. Comm & Fin Chr 154:1457+ D 11 '41

President's pre-war proposals to Japan and text of appeals to Emperor Hirohito. Comm & Fin Chr 154:1680 D 27 '41

United States in a new world; series of reports on potential courses for democratic action; Pacific relations. il Fortune 26:supp 12-18 Ag '42

U.S. set for Pacific showdown; Nippon's economic plight grows more acute. Business Week p81-2 N 15 '41

Valor of ignorance. H. Lea. 344p $2.50 Harper '42

With Japan's leaders; an intimate record of fourteen years as counsellor to the Japanese government, ending Dec. 7, 1941. F. Moore. 365p $2.75 Scribner '42

History

Japanese; their god-emperor medievalism must be destroyed. il Fortune 25:52-7+ F '42

Industries and resources

Industrial Japan; aspects of recent economic changes as viewed by Japanese writers. 230p pa $1.50 Inst. of Pacific relations, New York '41

Japan tries a hard bargain for new order. M. Palyi. il Am Business 11:12-14+ N '41

Japan's follow-up; Tokio's armies pursue lines marked by its business men. Business Week p32+ Ja 17 '42

Japan's industrial strength. K. L. Mitchell. 140p $1.50 Knopf '42

Japan's strength through weakness. Fortune 25:157-61 F '42

Kyushu and Honshu Islands focal points of Japan industry. T. E. Lloyd. il fold map Iron Age 149:83-92+ Ap 30 '42

Manufacture of nylon in Japan. W. Davis. Science 95:sup10 My 15 '42

Politics and government

Government by assassination. H. Byas. 369p $3 Knopf '42

Territorial expansion

Japan's empire. Economist 142:851-2 Je 20 '42

Japan's follow-up; Tokio's armies pursue lines marked by its business men. Business Week p32+ Ja 17 '42

JAPANESE

Japanese; their god-emperor medievalism must be destroyed. il Fortune 25:52-7+ F '42

JAPANESE beetles

Beetle control; possibilities of milky disease bacteria. Sci Am 166:82 F '42

JAPANESE in California

Aliens, but useful; acute problems for California business and agriculture. Business Week p66-7 F 21 '42

Army rushes work on California alien camps as Coast war tension increases. il Eng N 128:460 Mr 26 '42

Business in evacuation centers. il Business Week p19-20+ Jl 18 '42

Moving Mr Moto in toto; transporting Japanese evacuees. il Bus Transportation 21:352-4 Ag '42

Moving the aliens. Business Week p26+ Mr 7 '42

JAPANESE in the Netherlands Indies

Ten years of Japanese burrowing in the Netherlands East Indies. 132p pa 60c Netherlands information bur, New York '41

JAPANESE in the United States

Camp facilities for 8,000 Japs completed in 17 days. il Eng N 128:952-3 Je 11 '42

Evacuees to farms. Business Week p40+ S 19 '42

How army did it; handling of evacuation of 110,000 Japanese. Business Week p31 N 7 '42

Immigrants and citizens of Japanese origin. S. F. Miyamoto. bibliog Ann Am Acad 223:107-13 S '42

Jap evacuees to be settled on unused lands of western irrigation projects. Eng N 128:761 My 7 '42

Jap printers write "30" to West Coast businesses. C. M. Litteljohn. Inland Ptr 109:25 Ap '42

Protection of evacuees' interests by the Federal reserve bank of San Francisco. Fed Res Bul 28:321-2 Ap '42

Relocation authority has ten centers under way to house Jap war evacuees. Eng N 129:59 Jl 9 '42

Restricted citizen; discrimination against minorities; evacuation of Japanese-American citizens. E. V. Stonequist. Ann Am Acad 223:149-56 S '42

JAPANESE language

Dictionaries

Dictionary of military terms; English-Japanese, Japanese-English. H. T. Creswell, J. Hiraoka and R. Namba. 1226p, 175p $7 Univ. of Chicago press '42

JAPANESE waltzing mice. See Mice

JAPANNING

Direct radiant drying speeds application of japan and other heavy synthetic finishes. D. A. Jacobson. il diag Steel 110:72, 74 F 23 '42

See also

Varnish and varnishing

JAR rings, Fruit. See Fruit jar rings

JASMONE

See also

Dihydrojasmone

JAUNDICE

Jaundice and yellow fever vaccinations in the army. J. Stafford. Science 96:sup12+ Ag 7 '42

JAVA citronella oil. See Citronella oil

JEFFERS, William Martin, 1876-

Jeffers' handicap; railroader in rubber czar post. por Business Week p18 S 26 '42

Named rubber administrator. Comm & Fin Chr 156:983, 1090 S 17, 24 '42; por Oil Paint & Drug Rep 142:3+ S 21 '42; Ry Age 113:449 S 19 '42

Rubber administrator a straight-line thinker. por Barron's 22:13 O 19 '42

Sketch. por Nat Pet N 34:10 S 23 '42; Rubber Age 52:61 O '42

JEFFERSON transportation company

Jefferson Transportation; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:541 N '41

JELLY

Demethylated pectins offer advantage in low-sugar jellies. G. L. Baker and M. W. Goodwin. Food Ind 14:53+ S '42

Demethylation of pectin and its effect upon jellying properties; abstract. G. L. Baker and M. W. Goodwin. Food Ind 14:109-10 Je '42

See also

Colloids

Gelatin

JELLYFISH, Fossil

Fossil, world's oldest evidence of animal life; may be imprint of jellyfish; came from pre-Cambrian deposits of Grand canyon of Arizona. Sci Am 166:72 F '42

Laotirid from the upper Cambrian of Wyoming. K. E. Caster. bibliog Am J Sci 240:104-12, pl 1 F '42

JELUTONG

Production of chicle and jelutong. il India Rubber W 106:136+ My '42

JERSEY central power and light company

Held subject to FPC rule. Comm & Fin Chr 155:2185 Je 8 '42

JERUSALEM artichoke

Production of a palatable artichoke sirup; application of organic exchangers. D. T. Englis and H. A. Fiess. bibliog Ind & Eng Chem 34:864-7 Jl '42

JET propulsion

Jet propulsion developments. P. M. Heldt. il diags Automotive & Aviation Ind 87:30-3 S 15 '42

Jet propulsion; Italian experiments with airplane. A. Klemin. diag Sci Am 166:254 My '42

JETAL process. See Steel—Color

JETS

Entrainment and jet-pump action of air streams. G. L. Tuve, G. B. Priester and D. K. Wright, jr. il diag Heating-Piping 13:708-15 N '41; Discussion. 14:265-7 Ap '42

Turbulent spreading of a water jet. A. M. Binnie. il Engineering 153:503-4 Je 26 '42

Two-pipe pile jetting rig speeds driving on navy pier job. il Eng N 128:200 Ja 29 '42

JETTIES

Precast concrete jetties create beaches and prevent shore erosion. S. M. Wood. il diags Concrete 50:2-4 Ag '42

Santa Fe strengthens lines to fight flood waters. il diags Ry Age 111:780-1 N 15 '41

JEWEL bearings. See Bearings, Jewel

JEWEL tea company

Annual report. Comm & Fin Chr 155:737 F 17 '42

JEWELRY

All-America package competition; award to Jacques Kreisler mfg. corp. il Mod Packaging 15:188-9+ Ap '42

Conservation jewelry made of waste material. L. J. Haas. pls 1-10 pa 50c Louis J. Haas, 3 Gedney terrace, White Plains, N.Y. '42

Jewelry, gem cutting, and metal craft. W. T. Baxter. 2d ed 287p bibliog(p280) $2.75 McGraw-Hill '42

See also

Photography of jewelry
Precious stones
Rosaries

Manufacture

Platinum plating; a substitute for rhodium plate. C. B. F. Young and J. F. Davis. il Metal Finishing 40:252-3+ My '42

JEWELRY, Photography of. See Photography of jewelry

JEWELRY trade

Jewelers' plight; stocks can't be replenished. Business Week p63-4 S 5 '42

Jewelry industry displays plenty of ingenuity under war pressure. Sales Management 51:75-6 Jl 1 '42

Jewelry industry wrestles with difficulties, though sales boom; skilled diamond cutters live in Holland and Belgium; Japan has a cultured pearl monopoly; nickel, tin and copper for alloys are scarce. Sales Management 50:56-7 F 15 '42

Advertising

Quality goods, quality merchandising; Jacques Kreisler jewelry. C. J. Swan. il Ptr Ink 197:17-19 N 21 '41

JEWS

American Jew; a composite portrait. O. I. Janowsky, ed. 322p bibliog(p289-98) $2.50 Harper '42

Essays on antisemitism. K. S. Pinson, ed. 202p $2 Conference on Jewish relations, New York '42

Jewish emancipation under attack; its legal recession until the present war. B. D. Weinryb. 95p pa 25c Am. Jewish committee, New York '42

Jewish question. J. Parkes. 32p pa 10c Oxford '41

Jews in a gentile world; the problem of anti-Semitism. I. Graeber and S. H. Britt, eds. 436p $4 Macmillan '42

National solidarity and the Jewish minority. H. M. Kallen. bibliog Ann Am Acad 223:17-28 S '42

Questions and answers concerning the Jew. 124p bibliog(p53-64) $1 Anti-defamation league of B'nai B'rith, 130 N. Wells st, suite 1602, Chicago '42

Report to American Jews on overseas relief, Palestine and refugees in the United States. E. Ginzberg. 92p $1 Harper '42

JEWS in Europe

Ghettos in Europe. Economist 141:593-4 N 15 '41

JIGS

Development of plastic drill jigs and forming dies in aircraft tooling. il Aero Digest 41:236+ Jl '42

Drill jig for bomb fuzes. M. Kautz. diags Am Mach 86:392 Ap 30 '42

Drill jig for synthane bushings. D. I. Krauss. diags Am Mach 86:13-14, 59-60 Ja 8, F 5 '42

Dundas vernijigger. diags Automobile Eng 32:412-13 O '42

How to design simple jigs and fixtures to hold parts in place for welding. E. W. P. Smith. diags Steel 111:77-8+ O 19 '42

Jig and fixture details. J. G. Jergens. diags Am Mach 86:704-5, 768-9, 824-5, 876-7 Jl 9-Ag 20 '42

Jig for countersinking small parts. D. Baker. diag Am Mach 86:1020 S 17 '42

Jig for determining steel gages. G. Klay. diags Sheet Metal Worker 33:44 My '42

Jigs and dies from cast plastics; Lockheed and Vega aircraft corporations. il Am Mach 86:731-8 Jl 9 '42

Jigs and manipulators for fusion welding. il diags Engineering 152:430, 437-40 N 28 '41

Jigs for flame cutting curved surfaces; fabrication of sugar crystallizers. C. N. Holwill and A. N. Kugler. il Welding J 21:609-10 S '42

Long holes finished accurately in drill jigs. D. I. Krauss. diags Am Mach 86:224 Mr 19 '42

Modern machines produce Vega's jigs and fixtures; illustrations. Mach 48:136-7 D '41

Plastic assembly jigs and fixtures. W. D. Lewis. il Iron Age 150:78-81 O 1 '42

Plastic drill jigs and forming dies for aircraft tooling. il Automotive & Aviation Ind 87:36-41+ Jl 1 '42

Plastic tooling at Lockheed and Vega. C. O. Herb. il diags Mach 48:150-9 Jl '42

Plastics in aircraft tooling. il Iron Age 150:49-53 Jl 2 '42

Relieving tooling bottlenecks with plastics; Formrite method of making dies, jigs and fixtures. L. Weiss. il diags Aviation 41:114-21 O '42

Revolving jigs at plant of Osgood co. for welding boom structures. il Steel 110:59 Ja 26 '42

Save metals with light substitutes, for drilling jigs in aircraft manufacture. il Steel 111:62 Ag 3 '42

Simple tension jig for testing single-riveted and spot-welded sheet specimens. N. C. Parrish. il diags Instruments 15:212-13 Je '42

Tooling for aircraft production. il Mod Plastics 19:33-7, 104, 106+ Jl '42

Unleashing the Thunderbolt; jigs and assembling methods; Republic aviation corporation. O. G. Pyler. il diags Am Mach 86:1173-88 O 15 '42

Vernijigger. diags Engineer 174:177-8 Ag 28 '42

Welding jig for long structures. il Iron Age 148:58 D 18 '41

Welding jig holds metal boxes. J. E. Hyler. diag Am Mach 86:772-3 Jl 23 '42

Welding jigs for nacelle subassemblies. P. Mitchell. il Am Mach 86:1114-16 O 1 '42

JOB analysis

Functional pattern technique for classification of jobs. E. W. Davis. 128p bibliog(p121-3) $1.85 Teachers college '42

How to prepare a job description. Factory Management 100:81 N '42

JOB analysis—*Continued*

Job evaluation for salaried positions; York ice machinery corp. D. M. Magor. N A C A Bul 23:1354-64 Je 15 '42

Salary and wage administration. S. L. H. Burk. N A C A Bul 23:1347-54 Je 15 '42

Salary evaluation. A. S. Knowles and T. M. McAuley. (Bul. 7) 33p Northeastern univ, Bur. of business research, 360 Huntington av, Boston '41

Standardization, harmonizer of human effort. D. F. Miner. Advanced Management 7:15-22 Ja-Mr '42; Same abr. Ind Stand 13:61-6 Mr '42

Theory and practice of job rating. M. F. Stigers and E. G. Reed. 154p $1.75 McGraw-Hill '42

Use of job evaluation in application of time study; abstract. E. L. Berry and E. A. Berg. Foundry 70:96+ Je '42

See also

Motion study

JOBBER relations

Fixt Foods shows jobbers how to sell to institutional customers. L. Wall. il Sales Management 50:48+ Ja 15 '42

Fortifying distributor relationships under wartime conditions; Manning, Maxwell & Moore. L. H. Brendel. il Ind Marketing 27:20-2 Je '42

Hobby club builds jobber good-will for industrial manufacturer. L. H. Brendel. il Ptr Ink 198:15 Ja 30 '42

How to work with jobber's salesmen. J. Ungar. Ptr Ink 197:56-8, 60 D 5 '41

Ten things to do about fake missionary orders. W. B. Stewart. Sales Management 49:60-1 D 15 '41

JOBBERS

Blackhawk's S.A.S. campaign helps distributors help win the war; organized coöperation of shifting and shunting inventories. B. Hotvedt. il Ind Marketing 27:24-5+ S '42

Effective grocery wholesaling. W. H. Meserole and C. H. Sevin. (Economic ser. 14) 241p U.S. Bur. of foreign and domestic commerce, Washington; pa 40c Supt. of doc. '41

Inventory control to fit new regulations; Raybro electric company, Tampa, Fla. L. H. Houck. il Am Business 12:10-12 O '42

Jobber helps build turbines; Lewis supply co. of Memphis, turning out worm gears and packing rings for turbines in U.S. Navy destroyers. Fortune 26:32 Jl '42

Jobbers' salesmen remain important when manufacturer is without goods to sell; basic theme in trade press holds their good-will, Aluminum goods mfg. co. R. L. Pritchard. il Ptr Ink 200:40-1 Jl 3 '42

Middleman in the war effort; wholesaler's ability to keep factories going overlooked by production authorities. M. M. Green. Barron's 22:13 S 7 '42

Problems in non-defense industries. S. C. Munroe. Credit & Fin Management 44:20-1 S '42

This packaged sales story sells jobbers on pushing full line; Manning, Maxwell & Moore's visual presentation. L. H. Brendel. il Sales Management 50:36-9 Ja 1 '42

Tire ban reduces jobber calls and deliveries, but orders are larger; interviews with grocery and hardware wholesalers. P. Salisbury. Sales Management 50:36, 40-1 Mr 1 '42

Tool exchange; Blackhawk and Imperial Brass serve as clearing houses for scarce items on shelves of well-stocked distributors. Business Week p52+ O 31 '42

Trend is toward fewer calls, larger orders, in general merchandise jobbing field. P. Salisbury. Sales Management 50:42-4 Mr 15 '42

What happens to sales after the merchandise gets to wholesaler? Gary, Ind. check-up revealed that 80% of wholesale buying was done outside of city. Sales Management 51:60, 62 N 1 '42

Who supplies the retailer? W. Mitchell, jr. and W. Hayes. il Dun's R 50:11-12 Jl '42

Wholesalers' selective listing of manufacturers outlawed. Oil Paint & Drug Rep 140:3+ D 1 '41

See also

Advertising—Jobber cooperation
Advertising—Jobbers, Appeal to
Gasoline service stations, Jobbers'
Marketing
Merchandizing
Salesmen, Jobbers'
Wholesale trade—Statistics

Advertising

Graybar, oversold, advertises to guard post-war good-will. C. J. Swan. il Ptr Ink 197:15-17 N 14 '41

Wesco tells the part an electrical wholesaler plays in war. A. W. Sullivan. il Ind Marketing 27:24-5+ My '42

See also

Advertising—Jobber cooperation
Advertising, Cooperative—Manufacturers and jobbers

JOBBERS, Wagon

When to use a store-door distributor. P. F. Leach. il Mod Packaging 15:36-9+ D '41

JOBBERS' salesmen. See Salesmen, Jobbers'

JOBS. See Occupations

JOHANNESBURG, South Africa

Sewerage

Removing grease and floating solids from sedimentation tanks. E. J. Hamlin. diags Water & Sewage 80:22, 54-5 O '42

JOHANNESBURG consolidated investment company

Annual general meeting, Johannesburg. Economist 141:666 N 29 '41

JOHN FRITZ medal. See Fritz, John, medal

JOHN HANCOCK mutual life insurance company

Annual report. Comm & Fin Chr 155:697 F 14 '42

John Hancock has in excess of five billions in force; policyholders annual meeting. East Underw 43:1+ F 13 '42

JOHNS HOPKINS university

Contributions to science. Science 96:62 Jl 17 '42

Finances of the Johns Hopkins university, 1936-1942. Science 96:129 Ag 7 '42

JOHNS-MANVILLE corporation

Annual report. Comm & Fin Chr 155:737-8 F 17 '42

Another look at your company. Mag of Wall St 70:77 My 2 '42

Importance of Johns-Manville's mining profits. H. Lawrence. Barron's 22:13 Je 8 '42

News and views on investments. H. Lawrence. Barron's 22:20 F 23 '42

JOHNSON, Samuel, 1709-1784

Samuel Johnson's Life of Boerhaave. E. R. Atkinson. por J Chem Educ 19:103-8 Mr '42

JOHNSON and Johnson company

Trio of modern plants; J & J's decentralized industrial community. il diag plans Arch Forum 75:331-4+ N '41

JOHNSTON, Eric A.

New C. of C.; effects of victory won by Eric A. Johnston and insurgents. por Business Week p19-20 Ag 8 '42

New president of Chamber of commerce of United States. por Steel 111:50 Ag 17 '42

Portrait. Business Week p16 My 2 '42

JOHNSTON, Percy Hampton, 1881-

25 years with Chemical Bank. por Comm & Fin Chr 156:705+ Ag 27 '42

JOINT adventure

Joint ventures; a type of business association developed by war. W. R. Montgomery. Credit & Fin Management 44:8-9 S '42

JOINTS

Best joint designs for silver-alloy brazing. F. T. Van Syckel. il diags Steel 109:97, 100+ D 8 '41

Calculation and graphical representation of the fatigue strength of structural joints. Welding J 21:sup87-93 F '42

JOINTS—*Continued*

Corrosion resistance of welded joints; a review of the literature from Jan. 1, 1937 to Jan. 1, 1941. W. W. Spraragen and H. H. Chiswik. bibliog(97 references) il diags Welding J 21:sup209-37 My '42

Effects of welding procedure on joints made in type 304 stainless steel. E. P. Auler. bibliog il diags Welding J 21:sup98-106 F '42

Eighteen miles of sheet copper; expansion joints and flashing for plant of Republic aviation corp. il diags Sheet Metal Worker 33:23-5 Je '42

Fabricating timber structures for war production. il Am Bld 64:44-6 My '42

Fatigue strength of welded joints; a review of the literature from October 1936 to September 1941. W. Spraragen and D. Rosenthal. bibliog(127 references) il diags Welding J 21:sup297-348 Jl '42

Load relations in bolted joints. T. J. Dolan. diags Mech Eng 64:607-11 Ag '42

New regalvanizing process for rustproofing welded joints. Mach 48:159 Ja '42

Report of tests on butt joints with through plate stiffeners. W. J. Krefeld and J. D. Kenney. il diags Welding J 21:sup269-79 Je '42

Scarfed joints in plywood. T. D. Perry. diags Mod Plastics 20:74-5+ S '42

Spherical joints for welded tubular structures. diags Mach 48:146-7 F '42

Static and dynamic strength of structural steel welds. M. Roš. diags Welding J 21:sup254-6 My '42

Strength analysis of riveted and bolted joints. W. A. McGowan. diags Aviation 41:91-2, 95-6, 99+ Ap; 105, 107, 109, 111-12+ My '42

Structural wood design. L. P. Keith. il Roads & Bridges 80:34-5+ S '42

Toggle design; calculations for effects of frame deformation. H. A. Illing. diags Product Eng 13:68-70 F '42

Tubes combined with rolled shapes in structural design. H. S. Card. il diags Iron Age 149:56-9 My 21 '42

See also
Brazing
Couplings
Electric cables—Joints
Gaskets
Glass—Joining to metal
Glue
Packing
Pipe joints
Rail joints
Riveted joints
Screws
Solder and soldering
Welding

JOINTS (geology)

Jointing in the coal beds of Ohio. K. Ver Steeg. Science 96:83 Jl 24 '42

Regional systematic jointing in slightly deformed sedimentary rocks. J. M. Parker, 3d. bibliog maps Geol Soc Bul 53:381-408, pl 1-4 Mr '42

JOINTS (physiology)

See also
Knee

JOINTS, Universal

Universal joints; how to determine loads by vectorial analysis. L. D. Hagenbook and J. H. Holstein. il diags Product Eng 13:334-6 Je '42

JOISTS, Concrete

Precast concrete framing units for navy warehouse. il diags Eng N 127:879-81 D 18 '41

Precast joist concrete floors; with time-saver standards. diags Arch Rec 91:59-62 Mr '42

Research proves value of precast concrete floor systems. E. W. Dienhart. diags Concrete 50:10-11+ Jl; 20-2+ Ag '42

Wire saves steel in concrete joists. il diags Eng N 128:930-2 Je 4 '42

JOLLIFFE, Charles Byron, 1894-

Personalities in industry. por Sci Am 167:147 O '42

JONES, Barton Mills, 1885-

Leaves TVA to head Peruvian project. por Eng N 129:67 Jl 9 '42

JONES, Frederick Robertson, 1872-1941

Sketch. por Weekly Underw 146:65 Ja 3 '42

JONES, Jesse Holman, 1874-

War goes to Mr Jesse Jones. pors Fortune 24:90-3+ D '41

JONES, John Paul, 1747-1792

I have not yet begun to fight. por Fortune 25:98-9 Je '42

JONES, Norris, d. 1942

Sketch. L. Irving. Science 96:373 O 23 '42

JONES and Laughlin steel corporation

Annual report. Comm & Fin Chr 155:1312 Mr 30 '42

Convertible preferred yielding 7.5%. H. Lawrence. Barron's 22:5 Jl 13 '42

Cushioned earnings. H. Lawrence. Barron's 22:20 Ap 6 '42

Merger cushion; Jones & Laughlin considers absorption of Otis Steel. Business Week p34+ F 21 '42

Status of Otis Steel first 4½s, 1962 would be strengthened by proposed merger with Jones & Laughlin. Barron's 22:19-20 F 23 '42

JONESBORO, Arkansas

Water supply

Jonesboro kills two birds with one stone; elevated water tank reduces pumping load on power plant. L. M. Rebsamen. il Water Works & Sewerage 89:24-7 Ja '42

Jonesboro's water works, a successful business; supplies electricity, water and sewerage service. L. M. Rebsamen. Am Water Works Assn J 34:1496-1502 O '42

JOULE-THOMSON effect

Joule-Thomson effect in carbon dioxide. J. R. Roebuck, T. A. Murrell and E. E. Miller. bibliog Am Chem Soc J 64:400-11 F '42

Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42

JOURNALISM

Franklin's political journalism in England. V. W. Crane. Franklin Inst J 233:205-24 Mr '42

Ideal newspaper of the future. A. T. Robb. Ann Am Acad 219:169-75 Ja '42

Social responsibilities of the newspaper. R. J. Finnegan. Ann Am Acad 219:166-8 Ja '42

See also
College and school journalism
Newspapers
Periodicals
Reporting

JOURNALISTS

Eight million; journal of a New York correspondent. M. Berger. 334p $2.50 Simon & Schuster '42

King news; an autobiography. M. Koenigsberg. 511p $3.50 Stokes '41

Making of a reporter. W. Irwin. 440p $3.75 Putnam '42

See also
Dafoe, John Wesley

JUDGMENTS, Declaratory. See Declaratory judgments

JUDICIAL review. See Administrative law—Judicial review

JUDICIAL sales

Judicial sales of real property; persons under disability; forms. J. B. Rodes. 264p $9 Banks-Baldwin law pub. co, Cleveland '41

JUDSON, Wilber, 1880-

Sketch. por Min & Met 23:326 Je '42

JUNIOR achievement movement

American way of business is taught by participation of youth. S. Carter. il Ptr Ink 199:27-8+ Ap 24 '42

JUNIOR college students

Problems of junior college students who plan to go on to engineering schools. F. B. Lindsay. J Eng Educ 32:722-7 My '42

JUNIOR colleges

Associate's degree and graduation practices in junior colleges. W. C. Eells. 126p bibliog $1.75 Am. assn. of junior colleges, 730 Jackson pl, Washington, D.C. '42

JUNIPER
Carotenoids of telial galls of gymnosporangium juniperi-virginianae Lk. B. L. Smits and W. J. Peterson. bibliog Science 96:210-11 Ag 28 '42

JURASSIC system. See Geology, Stratigraphic—Jurassic

JURISPRUDENCE
Sociology of law. G. D. Gurvich. 309p $3.75 Philosophical lib, New York '42

JURY
Memo to manufacturers, from a public relations counselor on the grand jury. R. W. Riis. Steel 110:57-8+ Mr 2 '42

JUST, Ernest Everett, 1883-1941
Sketch. F. R. Lillie. Science 95:10-11 Ja 2 '42

JUSTICE, Administration of
If men were angels; some aspects of government in a democracy. J. N. Frank. 380p bibliog(p354-80) $3.75 Harper '42

See also
Courts
Crime and criminals
Legal aid

JUSTICE, Miscarriage of
War hysteria in Canada; case of Dr Samuel Levine. H. Grundfest. Science 94:461-2 N 14 '41; Reply. E. F. Burton. 95:97-8 Ja 23 '42

JUTE
Effect of variation in emulsification technique of batching oils upon the spinning and measurable characteristics of jute. H. L. Parsons. Textile Inst J 33:P77-84 Je '42
India's new use of jute cuttings; paper industry. For Comm W 9:26 O 3 '42
Jute situation clarified. For Comm W 7:29 Ap 25 '42
Purifying vegetable fibers. C. H. S. Tupholme. Textile Col 64:347 Jl '42
Standards for rot-proofing cordage and jute hessian or canvas. Textile Col 64:35 Ja '42
Technique for spinning samples of yarn from small quantities of jute fibre. C. R. Nodder and A. S. Gillies. il Textile Inst J 33:T1-16 Ja '42

Analysis

Determination of copper in textile materials treated to prevent mildew. C. L. Hoffpauir and R. T. O'Connor. bibliog Am Dyestuff Rep 31:395-8 Ag 17 '42

JUVENILE courts
Children in the courts; juvenile-court statistics, two-year period ended December 31, 1939 and federal juvenile offenders, two-year period ended June 30, 1939; eleventh report. U S Children's Bur Pub 280:1-27; pa 10c Supt. of doc. '42
Friend in court. C. Kelley. 266p $3 Dodd '42
Juvenile court in law; with amendments to date, Dec. 31, 1941. 3d ed 79p pa 50c Canadian welfare council, Council house, 245 Cooper st, Ottawa '41
Juvenile courts in Canada. 51p pa 35c Canadian welfare council, Council house, 245 Cooper st, Ottawa '42
Young people in the courts of New York state; report of the Joint legislative committee. (Legislative document 1942, 55) B. S. Alper. 309p Bernard S. Alper, 319 Madison av, New York '42

JUVENILE delinquency
Children in the courts; juvenile-court statistics, two-year period ended December 31, 1939 and federal juvenile offenders, two-year period ended June 30, 1939; eleventh report. U S Children's Bur Pub 280:1-27; pa 10c Supt. of doc. '42
Concerning juvenile delinquency; progressive changes in our perspectives. H. W. Thurston. 236p $2.75 Columbia univ. press '42
Friend in court. C. Kelley. 266p $3 Dodd '42
Juvenile delinquency and urban areas. C. R. Shaw and H. D. McKay. 451p $4.50 Univ. of Chicago press '42

K

KAHN, Albert, 1869-
Honored by architects. por Eng N 128:1036 Je 25 '42

KAHN, Albert, associated architects and engineers, inc.
Producer of production lines. Arch Rec 91:39-42 Je '42

KAISER, Henry J. 1882-
Can Kaiser do it? por Business Week p34+ Ag 22 '42
Kaiser plan fails; boilermakers in Portland object to importing labor from New York. Business Week p18 O 24 '42
Kaiser plan is really a call for a new raw-material program. E. Janeway. Fortune 26:184+ S '42
Kaiser's ships; new yards in Portland area promise three vessels every five days. Business Week p67-8 Ap 11 '42
OPA vs. Kaiser. por Business Week p27-8 S 5 '42
Steel man Kaiser. Business Week p33-4 Mr 7 '42
Why Kaiser is the world's number one shipbuilder; Oregon shipbuilding co. C. O. Herb. il Mach 49:132-43 N '42 (to be cont)

KAISER company, inc.
How they break world records at the Oregon shipyard. C. F. A. Mann. il Marine Eng 47:198-210 O '42
$26,000,000 addition to Kaiser steel plant approved by WPB. il Steel 111:41 N 2 '42

KALECKI plan
Ever hear of M. Kalecki? Business Week p96 My 23 '42
Rationing consumer expenditure. S. Weintraub. Harvard Business R 21 no 1:109-14 [S] '42

KALUNITE process. See Aluminum metallurgy

KANKAKEE, Illinois

Water supply

Softening surface water; abstract. H. D. Clark. Eng N 128:492 Mr 26 '42

KANSAS

See also
Petroleum—Kansas
Petroleum industry and trade—Kansas

Antiquities

Archeological remains in central Kansas and their possible bearing on the location of Quivira. W. R. Wedel. map Smithsonian Misc Coll v 101, no 7:1-24, pls 1-10 bibliog (p22-4) '42

KANSAS academy of science
Annual meeting, 74th, Hays, March 26-28. Science 95:628-9 Je 19 '42

KANSAS CITY, Missouri
Kansas City's airport system. W. W. Brown. il Aviation 41:201-2+ Je '42

Water supply

Administrative problems of water works in wartime. K. K. King. Am Water Works Assn J 34:1193-6 Ag '42; Excerpts. Eng N 129:102 Jl 16 '42
Water softening plant for Kansas City. M. P. Hatcher. il plan Am Water Works Assn J 34:703-11 My '42; Same. Water Works & Sewerage 89:185-9 My '42

KANSAS CITY power and light company
Earnings, 1938-1941. Comm & Fin Chr 155:1408 Ap 6 '42

KANSAS-NEBRASKA natural gas company
Stock offered. Comm & Fin Chr 155:89 Ja 6 '42

KANSAS university
Soil-cement blocks for walls of university research laboratory. W. C. McNown. il Eng N 127:812-13 D 4 '41

Dyche museum

Dyche museum at the University of Kansas. A. Wetmore. Science 94:593-8 D 26 '41

KANZLER, Ernest Carlton, 1892-
Auto men buckle down for Kanzler. por Business Week p16 Ja 31 '42
Kanzler leaves Detroit to accept new WPB post. Automotive & Aviation Ind 87:45 Ag 15 '42
Kanzler plan; new WPB operations boss. Business Week p17 S 19 '42
Kanzler, trouble shooter for Nelson. por Business Week p7 Ag 8 '42
Men about business; WPB's new deputy chairman. por Barron's 22:4 S 14 '42
Mr Kanzler goes to Washington; will seek better balance in national effort. por Steel 111:57 Ag 10 '42

KAOLIN
Effect of exchangeable bases on some properties of ball clays. M. D. Burdick, W. W. Meyer and T. A. Klinefelter. flow sheet graphs Am Cer Soc J 25:327-36 Ag 1 '42
Kaolin in Sweden. For Comm W 7:31 Je 20 '42
Manufacturing china clay opportunities in North Carolina. 24p North Carolina Dept. of conservation and development, Raleigh '41
Recovering mica from kaolin by flotation and tabling. B. Nordberg. il Rock Prod 45:40-3+ S '42
Relation between chemical composition and dielectric properties of ceramic materials with low dielectric losses. M. D. Rigterink, R. O. Grisdale and S. O. Morgan. bibliog Am Cer Soc J 25:439-43 N 1 '42
Solubilizing the alumina in kaolins by preheating in gases other than air; abstract. G. F. Huttig and E. Herrmann. Chem & Met Eng 49:156 Mr '42
Specially calcined china clay used as a refractory. A. Rigby and R. A. Green. Brick & Clay Rec 101:48, 50+ O '42
Use of washed North Carolina kaolin as an ingredient of porcelain bodies. W. H. Earhart. Ohio State U Eng Exp Sta Circ 42:1-40 '41
See also
Clay

KAOLINITE
Catalytic mullitization of kaolinite by metallic oxide. C. W. Parmelee and A. R. Rodriguez. bibliog il Am Cer Soc J 25:1-10 Ja '42
Fundamental study of clay; surface area and its effect on exchange capacity of kaolinite. A. L. Johnson and W. G. Lawrence. bibliog Am Cer Soc J 25:344-6 Ag 1 '42
Heat-of-wetting values of unfired and fired clays. C. W. Parmelee and V. D. Fréchette. bibliog Am Cer Soc J 25:108-12 F 15 '42
Plasticity of clays. E. A. Hauser and A. L. Johnson. bibliog Am Cer Soc J 25:223-7 My 1 '42

KAPITZA, Peter L. 1894-
I.E.E. presentations; distinctions for General McNaughton and Dr Kapitza. Electrician 128:414-15 My 1 '42
Low temperature physics in the USSR. C. T. Lane. Science 95:84-6 Ja 23 '42; Same cond. Mech Eng 64:223-4 Mr '42

KAPOK
Milkweed instead of kapok; abstract. B. Berkman. Chem Ind 50:510 Ap '42
Substitute for cork and kapok. T. J. McInerney. Barron's 22:5 Ag 31 '42

KARAKUL sheep
High-priced pelts; karakul, as Persian lamb. il Business Week p20-1 Je 13 '42

KARL Fischer reagent. See Fischer reagent

KARLSRUHE, Germany
Air force targets in Germany. il map Engineer 172:326-7 N 14 '41

KARMAN, Theodor von, 1881-
Portrait. Fortune 25:64 Ap '42

KARTVELI, Alexander
Alexander Kartveli responsible for creation of high-power pursuit ship now in production. Steel 111:60+ Ag 17 '42

KATAHDIN, Mount
Katahdin skylines. H. W. Leavitt. 99p Paul Cloke, Director, Technology experiment station, Orono, Maine '42

KATZ, Joe
Joe the magnificent. R. E. de Castro. por Adv & Sell 35:32+ Ap '42

KAVANAGH, James Edward, 1871-
Sketch. Weekly Underw 146:1080 My 9 '42
Vice-president of Metropolitan Life to retire. por East Underw 42:20+ D 12 '41

KEARNEY and Trecker corporation
Stock offered. Comm & Fin Chr 155:52-3 Ja 3 '42

KELLER, Kaufman Thuma, 1885-
Portrait. Mach 48:115 Mr '42

KELLOGG, W. K., foundation
W. K. Kellogg foundation, the first eleven years, 1930-1941. 217p Trustees of the W. K. Kellogg foundation, 258 Champion st, Battle Creek, Mich. '42

KELLY, William, 1877-
Sketch. por Civil Eng 12:53-4 Ja '42

KENDALL company
$6,500,000 financing planned. Comm & Fin Chr 156:696 Ag 24 '42

KENNAMETAL
Easy-to-make face mills; use of Kennametal. P. M. McKenna. diags Am Mach 86:331 Ap 16 '42

KENNEBEC river, Maine
Dredging the Kennebec river. W. H. O'Connell. il Comp Air M 46:6619-20 D '41

KENTUCKY
See also
Geology—Kentucky

KENTUCKY coffee tree
Saponin from the species of gymnocladus. C. D. Mell. Textile Col 63:659-60 D '41

KENTUCKY river
The Kentucky. T. D. Clark. 431p bibliog(p411-20) $2.50 Farrar '42

KENTUCKY utilities company
Kentucky Utilities 4s, 1970. Comm & Fin Chr 155:103 Ja 8 '42

KENYA colony
Kenya, and the story of its newly established pyrethrum industry. E. W. Bennitt. il Soap & San Chem 18:88-9+ Mr '42
See also
Chemical industries—Kenya colony
Labor and laboring classes—Kenya colony

KERATIN
X-rays and the stoicheiometry of the proteins, with special reference to the structure of the keratin-myosin group. W. T. Astbury. bibliog pl diags Chem Soc J p337-47 My '42; Abstract. Soc Dyers & Col J 58:163-4 Ag '42

KEROGEN
Preliminary study of the chemical constitution of kerogen. A. L. Down and G. W. Himus. bibliog diag Inst Pet J 27:426-45 D '41

KEROSENE
Additions to gasoline plant diversify output; Arkansas fuel oil company produces blended motor fuel, kerosine, Stoddard solvent, absorption oil, and fuel oil. D. Attaway. il Pet Eng 13:34, 36, 38 D '41
Effect of petroleum products on neoprene vulcanizates; effect of kerosenes. D. F. Fraser. bibliog Ind & Eng Chem 34:1298-1300 N '42
Farm expenditures for gasoline, oil, kerosene; tabulation. Automotive & Aviation Ind 86:76 Mr 15 '42
High-temperature saponification; an anhydrous system. J. J. Jacobs, jr. bibliog diag Ind & Eng Chem 34:322-6 Mr '42

KEROSENE—*Continued*

Hydrocarbon-water solubilities at elevated temperatures and pressures. J. Griswold and J. E. Kasch. bibliog Ind & Eng Chem 34:804-6 Jl '42

Progress report on the hydrocarbons in the kerosine fraction of petroleum. F. D. Rossini and B. J. Mair. bibliog diags Am Pet Inst Proc 22(3):7-12 '41; Same. Oil & Gas J 40:129, 131-2 N 6 '41

Prices

Tank wagon prices in 50 cities. Published in weekly numbers of Oil and gas journal

KERR cells

Electronic method of measuring molecular lifetimes; applied to measure decay of fluorescence and to measure decay of light from a nitrogen discharge. R. D. Rawcliffe. il diags R Sci Instr 13:413-18 O '42

KESTEN, Paul, 1898-

Gallery; with a purr. V. M. Ratner. por Adv & Sell 35:28+ Ag '42

KETALS

Base-catalyzed cleavage of methylenedioxy rings. R. T. Arnold, N. Bortnick and E. McMullen. Am Chem Soc J 64:1410-13 Je '42

KETENE

Action of ketene on 5,5-dibromoxyhydrouracil. M. Fytelson and T. B. Johnson. bibliog Am Chem Soc J 64:306-8 F '42

Condensation products of ketene with ketones. B. H. Gwynn and E. F. Degering. bibliog Am Chem Soc J 64:2216-18 S '42

Ketene acetals; ketene dialkylacetals. S. M. McElvain and P. M. Walters. bibliog Am Chem Soc J 64:1059-60 My '42

Ketene acetals; the elimination of hydrogen bromide from the acetals of α-bromoaldehydes; isopropyl- and *n*-propylketene diethylacetal. S. M. McElvain, R. L. Clarke and G. D. Jones. bibliog Am Chem Soc J 64:1966-9 Ag '42

Ketene acetals; the reaction of ketene diethylacetal with α,β-unsaturated carbonyl compounds. S. M. McElvain and H. Cohen. bibliog Am Chem Soc J 64:260-5 F '42

Ketene acetals; the reaction of ketene diethylacetal with various halogen compounds and acids. S. M. McElvain and D. Kundiger. bibliog Am Chem Soc J 64:254-9 F '42

Photolysis of ketene in the presence of hydrogen and methane. C. Rosenblum. bibliog Am Chem Soc J 63:3322-9 D '41

KETO alcohols. See Ketols

KETOLS

Oxidative cleavage of cyclic α-keto alcohols by means of lead tetraacetate. E. Baer. Am Chem Soc J 64:1416-21 Je '42

KETOMERCAPTOCINCHONINIC acid

Synthesis from rhodanine-oxindoles of keto and mercapto derivatives of cinchoninic acid. R. V. Jones and H. R. Henze. bibliog Am Chem Soc J 64:1669-72 Jl '42

KETONES

Abnormal Grignard reactions; enolizing and reducing action of Grignard reagents upon diisopropyl ketone. F. C. Whitmore and R. S. George. bibliog Am Chem Soc J 64:1239-42 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; compounds derived from the bromomagnesium enolates of alkyl dineopentylcarbinyl ketones. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1251-3 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the dineopentylcarbinyl group. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1247-51 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the methyl-t-butylneopentylcarbinyl group and their bromomagnesium enolates. F. C. Whitmore and D. I. Randall. bibliog Am Chem Soc J 64:1242-6 Je '42

Action of Grignard reagents on certain pentacenequinones, 6,13-diphenylpentacene. C. F. H. Allen and A. Bell. bibliog Am Chem Soc J 64:1253-60 Je '42

1,4-Addition of methylmagnesium iodide to an α,β-unsaturated ketone system involving the double bond of a β-aroylfuran nucleus, and ring cleavage of the resulting vinyl allyl ether system. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3178-80 N '41

Amino ketones; synthesis of amino alcohols and 1,3-diamino compounds from β-amino ketones. N. H. Cromwell, Q. T. Wiles and O. C. Schroeder. bibliog Am Chem Soc J 64:2432-5 O '42

Catalytic dehydrogenation and condensation of aliphatic alcohols. V. I. Komarewsky and J. R. Coley. bibliog Am Chem Soc J 63: 700-2, 3269-70 Mr, D '41

Comparison of metallic chlorides as catalysts for the Friedel-Crafts ketone synthesis. O. C. Dermer and others. bibliog Am Chem Soc J 63:2881-3; 64:464-5 N '41, F '42

Condensation products of ketene with ketones. B. H. Gwynn and E. F. Degering. bibliog Am Chem Soc J 64:2216-18 S '42

Effect of molecular environment on the absorption spectra of organic compounds in solution; αβ-unsaturated ketones. L. K. Evans and A. E. Gillam. Chem Soc J p815-20 D '41

Electron-sharing ability of organic radicals; the effect of the radicals in the solvent molecule. F. A. Landee and I. B. Johns. bibliog Am Chem Soc J 63:2895-900 N '41

Friedel-Crafts acylations of some sterically hindered alkylbenzenes. G. F. Hennion and S. F. deC. McLeese. Am Chem Soc J 64: 2421-2 O '42

Grignard reactions; sterically hindered aliphatic carbonyl compounds; enolization studies. F. C. Whitmore and L. P. Block. bibliog Am Chem Soc J 64:1619-21 Jl '42

Hydantoins containing a tetrahydropyranyl substituent. H. R. Henze and R. L. McKee. bibliog Am Chem Soc J 64:1672-4 Jl '42

Hydrogenation of alkyl phenyl ketones in the presence of copper alumina catalysts. V. N. Ipatieff and V. Haensel. Am Chem Soc J 64:520-1 Mr '42

Keto ethers; propoxymethyl alkyl (or phenyl) ketones. H. R. Henze and others. Am Chem Soc J 64:1222-3 My '42

Mechanism of oxidative fission of the furan nucleus; furans with steric hindrance by one α-aryl group. R. E. Lutz and W. P. Boyer. Am Chem Soc J 63:3189-92 N '41

Normal and abnormal alkylation of 2-methylcyclopentyl methyl ketone. G. Wash, B. Shive and H. L. Lochte. bibliog Am Chem Soc J 63:2975-9 N '41

Observations on the absorption spectra of terpenoid compounds; five-atom-ring unsaturated ketones. A. E. Gillam and T. F. West. Chem Soc J p486-8 Ag '42

Observations on the absorption spectra of terpenoid compounds; irone. A. E. Gillam and T. F. West. Chem Soc J p95-8 F '42

Observations on the absorption spectra of terpenoid compounds; the thiosemicarbazones of irone, eucarvone, and some related ketones. A. E. Gillam and T. F. West. Chem Soc J p483-6 Ag '42

ortho Alkylation and arylation of mesityl aryl ketones. R. C. Fuson and S. B. Speck. Am Chem Soc J 64:2446-8 O '42

Photochemical decomposition of cyclic ketones. S. W. Benson and G. B. Kistiakowsky. bibliog diag Am Chem Soc J 64: 80-6 Ja '42

Raman spectra of dialkyl ketones. F. F. Cleveland and others. J Chem Phys 10:18-21 Ja '42

Reaction between cyclic β-diketones and Grignard reagents; 1,3-diketo-2,2-dimethylhydrindene. T. A. Geissman and V. Tulagin. Am Chem Soc J 63:3352-6 D '41

Sesquiterpene ketones; abstract. J. L. Simonsen. Chem & Ind 61:73 F 7 '42

Statistics of intramolecular aldol condensations in unsaturated ketone polymers. P. J. Flory. Am Chem Soc J 64:177-9 Ja '42

KETONES—*Continued*

Stereoisomeric bromo 1,4-dimesityl unsaturated 1,4-diketones. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2426-30 O '42

Sterols; 3,6-diketo sterols and their reduction products. R. E. Marker and others. bibliog Am Chem Soc J 64:219-20 F '42

Structure and absorption spectra; further observations on α, β-unsaturated ketones. R. B. Woodward. bibliog Am Chem Soc J 64:76-7 Ja '42

Structures of certain highly arylated indenones and their behavior with bromine. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2127-30 S '42

Study of organic parachors; constitutive variations of the parachors of a series of normal ketones. K. Owen, O. R. Quayle and W. J. Clegg. Am Chem Soc J 64:1294-6 Je '42

Synthesis of 2′-ketodihydro-1,2-cyclopentenophenanthrene and derivatives of phenanthro[1,2-*b*]furan. A. L. Wilds. bibliog Am Chem Soc J 64:1421-9 Je '42

Synthesis of ketones of the type $RCOCHR_2$ from α,α-disubstituted β-keto esters; an extension of the acetoacetic ester type of ketone synthesis. B. E. Hudson, jr. and C. R. Hauser. Am Chem Soc J 63:3163-4 N '41

Two ketones of the stilbœstrol group. R. Jaeger and R. Robinson. Chem Soc J p744-7 N '41

α,β-Unsaturated aminoketones; reaction of pyrrolidine and tetrahydroquinoline with bromine derivatives of benzalacetophenone. N. H. Cromwell. Am Chem Soc J 63:2984-6 N '41

Utilization of alkoxy ketones in the synthesis of quinolines by the Pfitzinger reaction. S. D. Lesesne and H. R. Henze. Am Chem Soc J 64:1897-1900 Ag '42

See also

Acetone

KETONIC acids. See Acids, Organic

KETOSES

Action of diazomethane upon acyclic sugar derivatives; a new synthesis of ketoses and of their open chain (*keto*) acetates. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. bibliog Am Chem Soc J 64:2329-31 O '42

KETOSTEROIDS. See Steroids

KEWANEE public service company

Simplification order. Comm & Fin Chr 156:961 S 14 '42

KEY WEST, Florida

Recreational center proposed for Key West. il diag plans Arch Forum 77:83-5 Ag '42

KEYES, Frederick George, 1885-

Richards medal won by Prof. Keyes. Oil Paint & Drug Rep 141:7+ Ap 13 '42

KEYNES, John Maynard, 1883-

Portrait. Fortune 26:133 N '42

KEYS and keyways (machinery)

Caliper centers shafts for keyway milling. C. W. Leck. diag Am Mach 86:112 F 19 '42

Craven duplex slot milling and key seating machine. il Automobile Eng 31:409 N '41

Fixture for milling keyseats in line. E. L. Loftin. il Am Mach 86:1022 S 17 '42

Method for determining keyway dimensions. H. C. Kane. diags Product Eng 12:678-9 D '41

KHAKI

Dyeing of cotton with mineral khaki; a comparison of the penetration, rubbing fastness and handle of cotton dyed with pigments produced by chromate and alkali development methods. E. Race, F. M. Rowe and J. B. Speakman. Soc Dyers & Col J 58:161-2 Ag '42

Dyeing of cotton with mineral khaki; the chemical changes accompanying the use of a standing bath in development by the chromate process. E. Race, F. M. Rowe and J. B. Speakman. Soc Dyers & Col J 58:32-6 F '42; Abstract. Am Dyestuff Rep 31:276 My 25 '42

Dyeing with sulphur dyes with special reference to khaki, blue and grey shades. H. Boothroyd. Soc Dyers & Col J 58:25-7 F '42; Same. Textile Col 64:296-9 Je '42; Discussion. Soc Dyers & Col J 58:27-8 F '42

Rainbow khaki for Britain; five bright hued wools blended together. Textile Col 64:284 Je '42

KIDNEYS

Preparation and properties of renin. O. Schales. bibliog Am Chem Soc J 64:561-4 Mr '42

Renal hyperlipemia in dogs. W. Heymann. Science 96:163-4 Ag 14 '42

Studies in uric acid clearance. E. J. Stieglitz. bibliog Pub Health Rep 57:1306-10 Ag 28 '42

Diseases

Nephritis. L. Lichtwitz. 328p $5.50 Grune & Stratton, New York '42

KILNS

Dryers for dehydrating foods! possibilities in kiln and dryer systems of brick plants. il Brick & Clay Rec 101:11-12 Ag '42

Effects of different kiln gases on the glost firing of ware. J. H. Koenig. bibliog(89 titles) Cer Ind 38:54-6, 58+ Je '42

How friction and forced draft affect stratification in kilns and dryers. E. Ledoux. diags Chem & Met Eng 49:92-5 Ja '42

Insulating firebrick for kiln construction. J. D. McCullough. il Am Cer Soc Bul 20:437-42 D '41

Measurement of kiln atmospheres. J. R. Green. Cer Ind 38:30 Ja '42

Men for efficient kiln operation. R. Gibbs. Rock Prod 45:36-7 Ap '42

Modern practice in rotary kiln sintering. S. G. Thyrre. il diags Blast F & Steel Pl 29:324-9+ Mr '41; Excerpts. Rock Prod 45:84+ Ag '42

Modernizing an old brick yard. il Comp Air M 47:6716 Ap '42

Solving the problem of low-cost kilns for the small pottery producer. diags Cer Ind 37:82 D '41

Specially calcined china clay used as a refractory. A. Rigby and R. A. Green. Brick & Clay Rec 101:48, 50+ O '42

Treatment of timber in a drying-kiln. Engineering 152:417-18, 476 N 21, D 12 '41

Tunnel kilns found suitable for heat-treating armor plate. Brick & Clay Rec 100:17 My '42

What's happening inside your kiln? L. R. Whitaker. il diags Brick & Clay Rec 100:24-6 F; 28-30 Mr; 43-4 Ap; 16-17 Je; 101:17-18 Jl; 24-5 Ag; 26+ S; 21-2 O; 26, 28 N '42

Which is the best all around kiln, the round or the rectangular? T. W. Garve. diags Brick & Clay Rec 100:29-30; Discussion. 31 Ap '42

See also

Brickmaking
Cement kilns
Drying apparatus
Furnaces
Lime kilns
Lumber kilns

Electric heating

Commercial firing survey of car-tunnel kilns; with fuel cost data and comparison with electric kilns. M. S. Nelson and H. Wilson. Am Cer Soc J 25:237-40 My 1 '42; Abstract. Cer Ind 38:50-1 My '42

Firing pottery by electricity. A. B. Hollowood. il Electrician 127:317-18 D 5 '41; Abstract. Am Cer Soc J 25 (Cer A 21):66-7 Mr 1 '42

Firing

Commercial firing survey of car-tunnel kilns; with fuel cost data and comparison with electric kilns. M. S. Nelson and H. Wilson. Am Cer Soc J 25:237-40 My 1 '42

Direct radiant kiln firing in the industry; abstract. H. W. Smith and J. A. Ehlinger. Cer Ind 38:51 My '42

Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42

KILNS—Firing—*Continued*

Gas firing Hoffman kilns; abstract. R. L. Ferguson. Brick & Clay Rec 100:30-1 My '42

Kiln design for alternate fuels. V. J. Azbe. diag Rock Prod 45:59 O '42

Kiln gases affect the decorating fire. J. P. Thorley. Cer Ind 39:44, 46 Jl '42

New firing methods reduce fuel costs and give more uniform burning; Richard C. Remmey sons co. il diags Brick & Clay Rec 101:24-5 S '42

Newell pulverised fuel equipment. il Mech Handling 29:70 Ap '42

Progress in gas utilization research during 1941; advanced application of gas heat to bisque firing. il Am Gas Assn Proc 1941: 424-5

Stokers do a good job in firing electrical porcelain ware. il diag Cer Ind 39:52+ Ag '42

Stokers have many advantages for high temperature burns. il Brick & Clay Rec 101: 38, 40 Jl '42

Underfeed stokers on round downdraft kilns; abstract. E. B. Merry, jr. diags Brick & Clay Rec 100:31-2 My '42

KIMBALL, Richard H. 1882-1942

Sketch. por Nat Underw (Life ed) 46:19 N 6 '42

KINEMATICS

See also

Machinery, Kinematics of

Mechanical movements

Vibration

Study and teaching

What is wrong with kinematics and mechanisms? A. E. R. de Jonge. bibliog Mech Eng 64:273-8 Ap '42; Discussion. 64:744-51 O '42

KINESCOPES. See Television receiving apparatus

KINGSLEY, E. D.

American contemporaries. por Chem & Eng N 20:953-4 Ag 10 '42

KIRCHHOFF, Gustav

Generalization of Kirchhoff's theory of transversal plate vibrations in the vibration problem of steam turbine disks. I. Malkin. bibliog Franklin Inst J 234:355-69, 431-52 O-N '42

KIRKSITE. See Zinc alloys

KITCHEN cabinets

Advertising

Black and white, with simple message; for new line of all-steel kitchens. W. W. Suitt. il Ptr Ink 197:18-20 N 28 '41

KITCHEN thermometers. See Thermometers, Cooking

KITCHEN utensils

See also

Enameled ware

Manufacture

Some typical conversion case histories; kitchen utensils for the services. Metals & Alloys 15:768-9 My '42

KITCHENS

Flexible space in house of 194x. diags Arch Forum 77:140 S '42

House, kitchen, window for 194x. il diag plan Arch Forum 77:122-3, 131 S '42

Kitchen unit of 194x. diag Arch Forum 77: 134 S '42

Selling now for sales later; kitchen and bathroom modernization. il Dom Eng 160: 46+ Ag '42

What tenants want in the kitchen; study by E. Coit. diags plans Arch Rec 91:77 Ap '42

Electric equipment

Kitchen planning service as good-will builder; Connecticut light & power company. H. C. Johnson. il Elec W 116:1722-3+ N 29 '41

KITTINGER, L. T.

Portrait. Oil & Gas J 41:29 O 15 '42

KJELDAHL method. See Nitrogen—Analysis

KLEIN, Felix, 1849-1925

Group theory dilemma of Sophus Lie and Felix Klein. G. A. Miller. Science 95:353-4 Ap 3 '42

KLYDONOGRAPH

Surge propagation; klydonograph for the study of surge pressures. T. F. Wall. Engineering 153:262-3 Ap 3 '42

KNEE

Changes in the knee joint at various ages; with particular reference to the nature and development of degenerative joint disease. G. A. Bennett, H. Waine and W. Bauer. 97p bibliog(p81-92) $2.50 Commonwealth fund, 41 E. 57th st, New York '42

KNEE cap. See Patella

KNIGHT, Henry Granger, 1879-1942

American institute of chemists resolution. Science 96:248 S 11 '42

Sketch. por Oil Paint & Drug Rep 142:40 Jl 20 '42

KNIT goods

Annual knitting section. il diags Textile World 92:84-98 Ap '42

Bleaching cotton knit goods. E. S. Dunlap. il Textile World 92:94-5 Ap '42

Defects occurring in knit goods. F. J. Quilitsch. il Textile World 92:77 Ag; 122 N '42

Knit goods for military purposes. Textile World 92:88-9 Ap '42

Knitted garments used by the United States navy. R. G. Buck. Am Dyestuff Rep 31: 199-200, 220-5 Ap 27 '42

Outerwear in wartime; 24th annual convention of National knitted outerwear association, New York, March 24. Textile World 92:74 Ap '42

Preventing shrinkage in knitted fabrics. Textile Col 64:253-4+ My '42

Why QM rejects knit goods. il Textile World 92:87 Ap '42

See also

Hosiery

Rayon—Knit goods

Underwear

Manufacture

Synthetic fibers in the knitting field; discussion sponsored by the Am. assoc. of textile technologists. Rayon 23:477-8, 535-7 Ag-S '42

See also

Knitting machines

Knitting mills

KNIT goods industry

Since last year's show; knitting industry has undergone many changes. Textile World 92:84-6 Ap '42

KNITTING

Complete guide to modern knitting and crocheting. A. Carroll. 310p $1.98 W. H. Wise & co, New York '42

Defects occurring in knit goods. F. J. Quilitsch. il Textile World 92:77 Ag '42

Knitting the new hosiery; handling cotton and rayon on full-fashioned machines. W. A. Simond. il diags Textile World 92:86-7 O '42

Principles of knitgoods construction. O. Engelhard. il diags Rayon 23:205-6, 285-6, 350, 402-3, 475-6, 539-40, 617 Ap-O '42 (to be cont)

Types of warp knitting. Rayon 23:191 Ap '42

See also

Hosiery—Manufacture

KNITTING arts exhibition

1942 knitting show in Atlantic City next April; to be held biennially thereafter. Textile World 91:85 N '41

KNITTING machines

Principles of knitgoods construction. O. Engelhard. il diags Rayon 23:205-6, 285-6, 350, 402-3, 475-6, 539-40, 617 Ap-O '42 (to be cont)

See also

Hosiery machines

KNITTING mills

Plant protection at Wyomissing. J. E. Ruthardt. il Textile World 92:103-5 Jl '42

See also
Hosiery mills

Electric equipment

Simplified drive solves speed problem; motor drives on double-tricot fabric-knitting machines. J. F. Muller. Power 86:198 Mr '42

Employees

Girls wear uniforms in knitting mill; Ware knitters, inc. A. H. Wesslen. il Textile World 92:102-3 Mr '42

KNIVES

Microscalpel for use in experimental embryology. A. B. Burch. diag Science 96:387-8 O 23 '42

Molding tropical tools; production of heavy machete handle sections. il Mod Plastics 19:38+ Ap '42

KNIVES, Chipper

Speaking of changes in chippers; forty years of progress. H. B. Savage. Pulp & Pa of Can 43:582-3 bibliog(p595) Jl '42

KNOTS and splices

How short can wire be spliced economically? il Elec W 117:1856 My 30 '42

KNOWLEDGE

Evolution and knowledge. W. E. Ritter. Science 95:58-61 Ja 16 '42

KNOWLEDGE, Theory of

Common sense in epistemology. P. J. Jacoby. 126p bibliog(p123-6) pa $1 Univ. of Notre Dame lib, Notre Dame, Ind. '42

Prefaces to inquiry; a study in the origins and relevance of modern theories of knowledge. W. R. Gondin. 220p bibliog(p195-213) pa $2 King's crown press, New York '41

KNOWLES, Isaac Watts, 1819-1902

Sketch. L. T. Cox. por Am Cer Soc Bul 21:151-7 Ag 15 '42

KNOWLSON, James S. 1883-

Nelson's Knowlson, a driver in a key job. por Business Week p7 Ja 31 '42

KNOX, Franklin, 1874-

Sketch. pors Spectator (Life ed) 149:cover, 82 O '42

KNUDSEN creamery company

Lad who made Los Angeles America's cottage cheese capital. il Sales Management 49:66+ D 15 '41

KOCH, Albert C.

Earliest account of the Association of human artifacts with fossil mammals in North America; article by A. C. Koch printed in 1839. M. F. A. Montagu. Science 95:380-1 Ap 10 '42

KODACHROME. See Color photography

KODACHROME slides. See Slide film projectors

KODAKS. See Cameras

KOENEKE, Henry W. 1890-

Portrait. Bankers M 143:412 N '41

Portrait. Business Week p89 S 5 '42

KOENIG, Charles Jacob, 1911-

Sketch. bibliog por Am Cer Soc Bul 21:124-5 Jl 15 '42

KOHLRAUSH, Rudolf Hermann Arndt, 1809-1858

Plastics and the time factor: an old problem reappears. H. Leaderman. Am Dyestuff Rep 31:227-30, 246-8 My 11 '42

KOHORN fiber. See Wool, Artificial

KOJATES

Configuration of complex kojates formed with some transition elements as determined by magnetic susceptibility measurements. J. W. Wiley, G. N. Tyson, jr. and J. S. Steller. Am Chem Soc J 64:963-4 Ap '42

KOK-SAGYZ

American rubber from American farms; abstract. P. J. Kolachov. India Rubber W 105:368 Ja '42

Investigations on the chemical, physical, and mechanical properties of Kok-sagyz. India Rubber W 105:504 F '42

It's kok-saghyz time; seed crop's in. il map Business Week p62 Jl 18 '42

Tau-sagyz, or mountain gum plant discovered in Russia; Kok-sagyz and other Russian plants. Iron Age 149:74+ Ap 2 '42

KOLA nut. See Cola

KOMAROWSKY reaction

Komarowsky color reaction for aliphatic alcohols; limitations and sensitivity. H. W. Coles and W. E. Tournay. bibliog il Ind & Eng Chem Anal ed 14:20-2 Ja 15 '42

KONGO

Miracle on the Congo; report from the Free French front. B. L. Burman. 153p $1.75 Day '42

KOOTENAI river

Power utilization

Geology of dam sites on the upper tributaries of the Columbia river in Idaho and Montana; Katka, tunnel no. 8 and Kootenai Falls Dam sites, Kootenai river, Idaho and Montana. C. E. Erdmann. diag U S Geol S Water-supply Pa 866-A:1-36, pl 1-6; pa 25c Supt. of doc. '41

KOPPERS company

Brooklyn union gas company ruled subsidiary by SEC. Comm & Fin Chr 156:1239 O 5 '42

By-product coke oven builder expanding in coal tar chemical fields. Barron's 22:22 S 21 '42

Bartlett-Hayward division

Iron men and their dogs. F. C. Latrobe. 225p $4.50 Ivan R. Drechsler, Baltimore '41

KOREA

Koreans declare their unity; Committee on protest, Korean residents of northern California. Fortune 26:8 O '42

KOREANS

Koreans; abstract. A. Hrdlička. Science 95: sup10 Je 26 '42

KOROSEAL

Back to the lab; no Koroseal now for civilians. Business Week p70 Mr 7 '42

Flexible molds. S. Wein. il diags Metal Finishing 40:359-62 Jl '42

Industrial progress in synthetic rubberlike polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42

KORT nozzle

Kort nozzles score in unusual test; performance of U.S. Engineer tugs Escort, Convoy, Pilot and Scusset. il Marine Eng 47:87-9 F '42

Kort system of propulsion. A. M. Riddell. diags Engineering 154:18-20, 38-40 Jl 3-10 '42

Recent towboat developments, with particular reference to Kort nozzle propulsion. A. J. Dawson. il Marine Eng 47:115-20; Discussion. 105, 120 Je '42

KRAFT paper. See Wrapping paper

KREHBIEL, Junius Frederick, 1879-1941

Additional notes on J. F. Krehbiel. P. E. Cox. Am Cer Soc Bul 20:420 N '41

KRESGE, S. S., company

Consolidated income account, 1938-1941. Comm & Fin Chr 155:2280 Je 15 '42

KRESS, S. H., and company

Secondary offering; income account, 1939-1941. Comm & Fin Chr 155:2280 Je 15 '42

KRISS, Max, 1894-1941

Sketch. E. B. Forbes. Science 94:601 D 26 '41

KROGER grocery and baking company

Factors affecting Kroger Grocery's earnings. Barron's 22:6 Mr 9 '42

KRUG, Julius Albert, 1907-

Cap Krug takes over priorities. por Business Week p7 Ag 1 '42

KRUPP works

Air force targets in Germany; Essen. il map Engineer 172:416-19 D 12 '41

KRUYT, Hugo Rudolph, 1882-

Hugo Rudolph Kruyt. H. S. van Klooster. por(front) J Chem Educ 19:165 Ap '42

KRYPTON
Beta-ray spectra of arsenic, rubidium, and krypton. G. L. Weil. bibliog diag Phys R 62:229-37 S 1 '42

KUNDT tube
Steady circulations in the Kundt's tube; abstract. K. Schuster and W. Matz. Acoustical Soc Am J 13:320 Ja '42

KUNZMANN, William C.
Testimonial by Society of motion picture engineers. E. A. Williford. por Soc Motion Picture Eng J 37:554-6 D '41

KURUSU, Saburo, 1888-
Portrait. Business Week p81 N 15 '41

KUTZ, Milton, 1883-
Kutz marks 45 years in chemical industry. por Oil Paint & Drug Rep 142:5+ Ag 17 '42

KYANITE. See Cyanite

KYMOGRAPH
Versatile electro-kymograph. C. Moore and H. Bloomer. il diags Electronics 15:51+ Jl '42

KYRITE
Decolorizing filter aids; Kyrite and Dicalite M-23. R. Boyd and R. W. Schmidt. il Ind & Eng Chem 34:744-8 Je '42

L

L.C.L. freight. See Freight car service—Car load

LABELING
American brands in many lands. il Mod Packaging 16:60-2+ S '42
Labels with built-in brilliance; new coated paper. il Mod Packaging 15:52-3 Je '42

LABELING machines
Look after your labelers, here's how. S. T. Carter. il Food Ind 14:48-9 S '42

LABELS
A.N.A. on labeling; ten-point critical analysis of grading and government standards. Business Week p64+ D 13 '41
A.N.A. study punctures grade labeling charges. Ptr Ink 197:61-2 D 12 '41
British packages under wartime restrictions. D. V. Baker. Adv & Sell 35:72+ O '42
Can label identity retained on glass; Veg-All. il Mod Packaging 16:69+ O '42
Changes in Crown tested plan; new minimum requirements are established for rayon fabrics. il Rayon 23:500-2 S '42
Do women want informative labels today? B. S. Bronner. Rayon 23:584 O '42
Facts that must be disclosed legally in retail selling. J. W. Wingate. J Retailing 18:82-4 O '42
Glandular preparations held inert by F.D.A. Oil Paint & Drug Rep 140:3+ D 15 '41
Grade labeling? it's not just on way; it's here already. E. R. Smith. Ptr Ink 198:13-14+ Mr 27 '42
Ice cream; sale, name and address of manufacturer on wrappers, local board of health regulation upheld. Pub Health Rep 57:1360-2 S 4 '42
Informative labeling has important war work to do. C. J. Swan. il Ptr Ink 198:19-20+ Mr 20 '42
Inside story on the outside; Tom Boy stories labeling canned fruits and vegetables. R. A. Latimer. il Mod Packaging 15:40-2+ D '41
Labeling required; OPA sets top prices on sheets. Business Week p31-2 F 14 '42
Vitamins on label. Business Week p48+ My 16 '42
Where grade labeling stands today. E. P. O'Donnell. il Adv & Sell 34:35, 58, 60 D '41
See also
Grade marks
Price marks
Trade marks

Printing
Labels with built-in brilliance; new coated paper. il Mod Packaging 15:52-3 Je '42

LABOR, Casual
See also
Longshoremen
Migrant problem
Migration of workers

LABOR, Compulsory
Compulsory labor in Turkish mines and public works. E. C. Taylor. Monthly Labor R 54:403-4 F '42
Compulsory labour service in Finland. Int Labour R 46:597-8 N '42
Compulsory labour service in Switzerland. Int Labour R 46:465-7 O '42
Conscription of labor in Italy. H. Lewis. Monthly Labor R 54:1091 My '42
Foreign workers in German war efforts. P. A. Speek. Monthly Labor R 54:1310-19 Je '42
FDR must grapple with 40-hour week and manpower authority before drafting labor. E. Blair. Barron's 22:4 N 2 '42
French resistance to forced labor praised by Secretary Hull. Comm & Fin Chr 156:1640 N 5 '42
Kenya labour. Economist 142:462 Ap 4 '42
Labour compulsion in Kenya. Int Labour R 45:680-2 Je '42

LABOR agreements. See Trade agreements

LABOR and capital
Labor's chief need: job security. F. B. Kirkbride. Trusts & Estates 75:231-2 S '42
See also
Arbitration, Industrial
Capitalism
Company unions
Cooperation
Industrial relations
Labor disputes
Strikes
Trade agreements
Trade unions

LABOR and laboring classes
FDR praises labor; calls for sacrifices; Labor day statement. Comm & Fin Chr 156:904 S 10 '42
Labor's chief need: job security. F. B. Kirkbride. Trusts & Estates 75:231-2 S '42
See also
Absenteeism (labor)
Accidents, Industrial
Aeronautic workers
Apprentices
Arbitration, Industrial
Automobile factories—Employees
Bonus system
Building trades—Labor conditions
Chemical workers
Child labor
Coal miners
Company unions
Contracts, Government—Labor problems
Cooperation
Cotton mills—Employees
Diseases, Industrial
Education of workers
Efficiency, Industrial
Electric workers
Employees
Employees' representation in management
Employment agencies
Employment management
Employment systems
Factory inspection
Farm labor
Foundries—Employees
Gas companies—Employees
Glove workers
Government employees
Handicraft
Home labor
Hours of labor
Housing
Hygiene, Industrial
Industrial education
Industrial management
Industrial relations
Industry
Insurance, Health
Insurance, Industrial
Insurance, Unemployment
Insurance, Workmen's compensation
Labor disputes
Labor laws and legislation
Labor supply
Laboratory workers
Leather workers
Longshoremen
Lumber workers
Machinery in industry
Metal workers
Migration of workers
Military service—Labor problems
Miners
Motor bus drivers
Motor truck drivers
Municipal employees
Night work
Occupations
Office workers
Old age pensions
Open and closed shop
Petroleum workers
Picketing
Printers
Production
Professional workers

LABOR and laboring classes—See also—*Cont.*

Profit sharing
Radio workers
Railroads—Employees
Safety devices and measures
Seamen
Servants
Standard of living
Steel workers
Street railroads—Employees
Strikes
Textile workers
Time study
Trade agreements
Trade unions
Tunnel workers
Unemployment
Vacations
Wages
Welders
Welfare work in industry
Woman—Employment
Working women
Workmen's compensation
World war, 1939—Labor problems

Bibliography

Book notes. Published in monthly numbers of International labour review

Labor and the use of business information. (Business literature v 14, no 8) 2p Business branch, Newark public lib, Newark, N.J. Ap '42

Recent books and pamphlets on labor. O. Pell, comp. Booklist [ALA] 39:19-20 S '42

Recent publications of labor interest. Published in Monthly labor review

Selected list of the publications of the Bureau of labor statistics; 1940 ed. E. A. Johnson, comp. U S Bur Labor Statistics Bul 683:1-48 '41

Subject index to the Monthly labor review, volumes 1 to 11, July 1915 to December 1920. U S Bur Labor Statistics Bul 695:1-176; pa 20c Supt. of doc. '41

Suggestions for a trade union library. O. A. H. Pell and M. T. Stibitz. 15p pa 25c Am. lib. assn, Chicago '41

International aspects

See also Labor laws and legislation, International

Statistics

Changes in distribution of manufacturing wage earners, 1899-1939. H. D. Kube and R. H. Danhof. 268p maps U.S. Bur. of the census, Washington; pa 30c Supt. of doc. '42

Estimated growth in the labor force, 1940 to 1950. Monthly Labor R 53:1172-3 N '41

Explanatory notes on periodical statistics of cost of living, wages, unemployment, employment and hours of work. Int Labour R 45:104-13 Ja '42

Figures behind the man-power problem. Business Week p58 N 29 '41

What the labor balance sheet shows. Business Week p64 F 28; 65 My 30; 76 S 5 '42

See also

Cost of living—Statistics
Employment—Statistics
Hours of labor—Statistics
Occupations—Statistics
Strikes—Statistics
Unemployment—Statistics
Unemployment surveys
Wages—Statistics

Africa

Migrant labour in Africa and its effects on tribal life. M. Read. map Int Labour R 45:605-31 Je '42

Africa, British West

Labour conditions in British West Africa. Int Labour R 45:433-5 Ap '42

Argentina

See also

Labor laws and legislation—Argentina

Australia

Wartime labor policies and problems in Australia. A. L. Whitney. Monthly Labor R 54:616-31 Mr '42

See also

Labor supply—Australia

Belgium

Control of employment and mobilisation of labour reserves in Belgium. Int Labour R 46:347-9 S '42

Bombay

Enquiry into the conditions of textile labour in Bombay. Int Labour R 45:309-12 Mr '42

British Guiana

Social reform in British Guiana. Int Labour R 46:62-5 Jl '42

California

Doors to jobs; a study of the organization of the labor market in California. E. H. Huntington. 454p $3.50 Univ. of California press, Berkeley '42

How organized labor views the problems of transition. E. E. Ward. Ann Am Acad 222:179-83 Jl '42

Canada

Employment situation at the beginning of February, 1942 together with payrolls for the last week in January. 25p pa $1 Canada. Dominion bur. of statistics, Ottawa '42

Industrial war effort depends on labour relations. H. Crabtree. Pulp & Pa of Can 42:765, 820 D '41

War and merchant seamen: organisation for seamen's welfare in Canada. Int Labour R 46:49-52 Jl '42

War labor policies in Canada. M. Mackintosh. Ann Am Acad 224:75-83 N '42

See also

Labor laws and legislation—Canada
Labor supply—Canada
Trade unions—Canada
Trades and labor congress of Canada
Unemployment—Canada
Wages—Canada

Colombia

Employment in manufacturing in Colombia, 1939 and 1940. H. T. Hoffman. Monthly Labor R 54:927 Ap '42

Occupational distribution of population in Colombia, July 1938. Monthly Labor R 53:1173-6 N '41

Detroit

Decline war jobs; workers in nonessential industries in Detroit. Business Week p63 Ag 29 '42

190,000 workers; registration of women in Detroit. Business Week p33-4+ S 5 '42

Tool-die freeze. Business Week p76+ Ag 22 '42

Fiji Islands

Labour conditions in Fiji. Int Labour R 45:690-2 Je '42

France

French lesson; a study of the industrial demoralization that led to the fall of France. P. E. Lamarche. il Aviation 41:56-7, 208, 210+ Ja '42

Length of the workweek in France. H. F. Matthews. Monthly Labor R 54:212-13 Ja '42

Prices and wages in France; Labour charter. Economist 142:828 Je 13 '42

See also

Labor laws and legislation—France
Miners—France

Germany

Employment of women in Germany under the National-socialist régime. Int Labour R 44:617-59 D '41

Foreign workers in German war efforts. P. A. Speek. Monthly Labor R 54:1310-19 Je '42

Industrial front in Germany. T. Prager and M. J. Wilkinson. Ind Med 11:142-4 Mr '42

LABOR and laboring classes—Germany—*Cont.*

Recent aspects of the employment of women in Germany. Int Labour R 45:286-96 Mr '42

See also

Child labor—Germany
Labor laws and legislation—Germany
Labor supply—Germany
Wages—Germany

Bibliography

Industrial relations in Germany, 1914-1939; annotated bibliography of materials in the Hoover library on war, revolution, and peace and the Stanford university library. W. Chamberlin, comp. 403p $5 Stanford univ. press '42

Great Britain

A-B-C's of British labor policy. Business Week p46+ Ap 4 '42

Absenteeism in war industry; Britain's solution. Trusts & Estates 75:341-2 O '42

Accidents and health in British factories, 1940. Monthly Labor R 54:134-9 Ja '42

Hours and output; Industrial health research board's report. Elec R (Lond) 130:210 F 13 '42

Hours of work and lost time in Great Britain. Monthly Labor R 54:1400-3 Je '42

How to increase war production; lessons from an English government report. C. S. Slocombe. Personnel J 20:194-204 D '41

Junior male workers; agreement affecting apprentices. Engineer 174:177 Ag 28 '42

Labour in the colonies. Economist 141:557-8 N 8 '41

Manpower policy, 1941; labour conditions, 1940 and 1941. Economist 142:sup4-5 Mr 14 '42

Mobilization of industry and labor in Great Britain. Monthly Labor R 55:25-41 Jl '42

Position of British labor, 1939-41. M. H. Schoenfeld. Monthly Labor R 54:594-615 Mr '42

Recent developments in joint production machinery in Great Britain. Int Labour R 46:284-98 S '42

Trade union membership problems of transferred war workers in Great Britain. Int Labour R 45:151-6 F '42

War of nerves. Economist 143:471-2 O 17 '42

Welfare work outside British factories. Monthly Labor R 54:57-8 Ja '42

See also

Child labor—Great Britain
Labor laws and legislation—Great Britain
Labor supply—Great Britain
Trade unions—Great Britain
Unemployment—Great Britain
Wages—Great Britain

Hawaiian Islands

Minority groups in Hawaii. W. C. Smith. bibliog Ann Am Acad 223:36-44 S '42

India

Conditions of work in India. Int Labour R 45:571-3 My '42

Statement of government policy in India. M. S. A. Hydari. Int Labour R 45:548-51 My '42

Indiana

Bi-racial cooperation in placement of Negroes. Monthly Labor R 55:231-4 Ag '42

Italy

See also

Labor laws and legislation—Italy

Jamaica

Labour conditions in the West Indies. Int Labour R 44:695-8 D '41

Kenya colony

Kenya labour. Economist 142:462 Ap 4 '42

Los Angeles

Employers curbed; order by NLRB restraining M. & M. and other groups, marks end of era in Los Angeles labor history. Business Week p19-20+ D 13 '41

L.A.'s own war; open-shop battle. Business Week p87-8 Mr 14 '42

Mexico

Preliminary figures from Mexican industrial census of 1940; persons employed and wages paid in Mexican extractive, electric-power, and manufacturing industries. Monthly Labor R 54:636-9 Mr '42

Michigan

Michigan's labor turns to making guns; present emergency is believed to be sweetening industrial relations. il Barron's 22:15-16 My 18 '42

New Zealand

Wartime regulation of labor in New Zealand. Monthly Labor R 54:895-904 Ap '42

Work of the Waterfront control commission in New Zealand. Int Labour R 45:402-7 Ap '42

Northwestern states

Trouble on the Northwest frontier: a correspondent's travel report. Fortune 26:24+ N '42

Norway

Labour problems in Norway. Economist 141:535 N 1 '41

Nyasaland

Labour conditions in British Central Africa. Int Labour R 46:44-8 Jl '42

Oceanica

Labor problems in the Pacific mandates. J. A. Decker. 246p bibliog(p229-41) $2.50 Oxford '41

Pittsburgh

What's itching labor? survey of opinion of workers in Pittsburgh area. il Fortune 26:100-2+ N '42

Rhodesia

Labour conditions in British Central Africa. Int Labour R 46:44-8 Jl '42

Russia

Soviet labour and industry. L. E. Hubbard. 314p 15s Macmillan '42

See also

Stakhanovism

St Paul, Minnesota

Potential war workers in an urban area. D. Yoder and H. G. Heneman, jr. Monthly Labor R 55:203-5 Ag '42

South Africa

Control of manpower and prices in South Africa. Monthly Labor R 54:1340-2 Je '42

Native labour in South Africa. S. T. Van der Horst. 340p bibliog(p327-31) $6 Oxford '42

Native labor problem of South Africa. J. M. Tinley. 281p bibliog(p272-4) $3 Univ. of North Carolina press, Chapel Hill '42

Southern states

Southern workers outside the legislative pale. H. C. Nixon, ed. 36p bibliog(p35) pa 20c Am. labor education service, New York '42

Spain

Spanish labour for Germany. Economist 142:326-7 Mr 7 '42

Sweden

Industrial disputes in Sweden, 1903-39. Monthly Labor R 53:1426-7 D '41

Trinidad

Labour conditions in Trinidad. Int Labour R 45:88-90 Ja '42

United States

All clear on the labor front. Business Week p72-3 D 13 '41

Consumer spending, inflation and the wage earner in the United States. O. Nathan and M. Fried. bibliog Int Labour R 45:125-41 F '42

LABOR and laboring classes—United States—*Continued*

Employment and working conditions, 1941. Survey of Cur Business 22:44-7 F '42

Impact of war on labor supply and labor utilization. L. Levine. Am Statis Assn J 37:54-62 Mr '42

Labor defends America. H. Wolf. 80p pa 50c Am. council on public affairs, Washington, D.C. '41

Labor in transition to a war economy. W. Bowden. Monthly Labor R 54:843-68 Ap '42

Labor problems in American industry. C. R. Daugherty. 5th ed 1008p $3.75 Houghton '41

Labor: the new force, the new problem. H. M. Tremaine. il Mag of Wall St 69:689-91 Ap 4 '42

Selfish demands of labor for wages, hours hit, as periling our existence. R. W. Babson. Comm & Fin Chr 155:1345 Ap 2 '42

What the labor balance sheet shows. Business Week p64 F 28 '42

See also

American federation of labor
Automobile factories—Employees
Coal miners—United States
Congress of industrial organizations
Housing—United States
Labor laws and legislation—United States
Labor supply—United States
Migration of workers
Military service—Labor problems
Negroes—Employment
Trade unions—United States
Unemployment—United States
Wages—United States
Welfare work in industry

Political aspects

Labor's status in the national effort. G. Soule. Ann Am Acad 224:124-7 N '42

National policy toward labor. W. Hard. Ann Am Acad 224:152-6 N '42

Sedition trial verdict. Business Week p98 D 6 '41

Venezuela

See also

Unemployment—Venezuela

Washington, D.C.

Woman domestic workers in Washington, D.C. 1940. G. Fox. Monthly Labor R 54:338-59 F '42

Washington (state)

Migration and settlement in the Yakima valley. Monthly Labor R 54:405-6 F '42

LABOR boards, State

Pennsylvania labor board may not appeal court rulings. Comm & Fin Chr 155:1545 Ap 16 '42

LABOR bureaus

Outline of state agencies administering labor laws. M. B. Dahl. (Bul. 49) 186p U.S. Dept. of labor, Division of labor standards, Washington; pa 40c Supt. of doc. '41

LABOR camps

See also

Civilian conservation corps
Construction camps

LABOR contracts

Restraint on employe to withhold information. J. Simpson. East Underw 42:37 D 19 '41

Supreme court upholds contract guaranteeing fixed wage, no overtime; case against A. H. Belo corp., publisher of the Dallas morning news. Steel 110:39 Je 29 '42

See also

Open and closed shop
Trade agreements

LABOR cost

Audit your absenteeism. J. F. McMahon. Personnel J 21:158-62 N '42

Labor productivity and labor cost, 1939-41. Monthly Labor R 53:1388-91 D '41

Premiums for the night shift. Management R 30:461 D '41

Prices and wages. W. G. Keim. Am Statis Assn J 37:377-82 S '42

Productivity and unit labor cost in manufacturing industries. Monthly Labor R 54:1071-2 My '42

Public utilities and unemployment compensation. E. P. Schmidt. J Land & Pub Util Econ 18:97-100 F '42

Wage-setting dilemma. C. C. Balderston. Harvard Business R 20 no 4:402-5 [Jl] '42

When absenteeism is figured in dollars and cents. A. Fletcher. Concrete (mill sec) 50:138-9+ Mr '42

Accounting

Accounting for excess labor costs and overhead under conditions of increased production. N A C A Bul 22:1551-70 sec 3 Ag 15 '41; Abstract. Management R 31:59-61 F '42

Tentative statement on accounting for excess labor costs, Research and technical service department, National association of cost accountants. N A C A Bul 23:1205-13 sec 3 My 1 '42

See also

Payrolls—Accounting

LABOR departments

Directories

National labor and welfare offices in Latin America. Monthly Labor R 54:1246-8 My '42

LABOR displacement

Labor problems from defense priorities. R. R. R. Brooks. Trusts & Estates 73:494-6 N '41

Placing the displaced worker; government and industry sponsoring program to find jobs for priority casualties. A. Fancher. Barron's 22:18 Jl 27 '42

LABOR disputes

Bell Aircraft pact; stubborn dispute arbitrated. Business Week p48 D 20 '41

Chrysler impasse; work continues without wage pact. Business Week p69-70 Je 27 '42

Decisions of National war labor board, May-July 1942. Monthly Labor R 55:484-97 S '42

Decisions of the National war labor board, January-April 1942. Monthly Labor R 54:1344-52 Je '42

Emergency boards for adjustment of railroad labor disputes. Monthly Labor R 55:92-3 Jl '42

Expansion trouble; General alloys company dispute with government agencies, a strike, and a Labor board case. Business Week p70-2 Je 20 '42

Form railway panel to settle labor disputes. Comm & Fin Chr 155:2127 Je 4 '42

Home mediation; Camden county launches new board. Business Week p72-3 Ap 25 '42

Industrial disputes. Published in Monthly labor review

Industrial disputes in 1941. Survey of Cur Business 21:4-6 D '41

Industrial disputes in Sweden, 1903-39. Monthly Labor R 53:1426-7 D '41

Labor sore spot; Alcoa situation. Business Week p70+ Je 27 '42

NWLB on the job. Business Week p58-9 Ja 24 '42

Panel offers solution to GM case. Automotive & Aviation Ind 87:45+ S 1 '42

President in message to CIO says labor disputes shall not interrupt defense. Comm & Fin Chr 154:1243 N 27 '41

Resisting M. of M.; Inland, going own way in Little Steel fight. Business Week p75-7 My 9 '42

Slowdown hit; trouble at Alcoa plant in Cleveland brings decisive action by NWLB special representative. Business Week p73-4 Ap 4 '42

Steelman stymied; Montgomery Ward rebuff to Msgr Haas. Business Week p58+ My 23 '42; Reply. p95 Je 27 '42

War, wages, and strikes; possibility that labor disputes may not end during the present emergency. C. E. Troxel. Pub Util 29:201-9 F 12 '42

LABOR disputes—*Continued*
Watch West Allis; wage issue at Pittsburgh may be intended to strengthen C.I.O.'s Wisconsin forces. Business Week p72+ F 14 '42

See also
Arbitration, Industrial
National war labor board
Strikes
also United States—Labor, Department of—Conciliation service

LABOR inspection

See also
Safety inspection

LABOR laws and legislation
Court decisions of interest to labor. Published in Monthly labor review
Emergency war powers of the states. Monthly Labor R 54:1084-7 My '42
Labor relations acts of the states. P. M. Herzog. Ann Am Acad 224:19-24 N '42

See also
Arbitration, Industrial
Child labor laws
Contracts, Government—Labor problems
Employers' liability
Factory inspection
Hours of labor—Law
Insurance, Unemployment
Insurance, Workmen's compensation
Labor, Compulsory
Minimum wage
Mining law
Pensions, Industrial
Picketing
Sabotage
Strikes
Wages—Law
Woman—Employment
Workmen's compensation
also National conference on labor legislation, Washington

Congresses

Proceedings of the seventh National conference on labor legislation, Washington, D.C., Dec. 9-11, 1940. (Bul. 45) 122p U.S. Division of labor standards, Washington '41

Argentina

Act regulating home work in Argentina. Int Labour R 45:203-5 F '42
Present state of social legislation in the Argentine Republic. J. R. Pichetto. Int Labour R 46:383-419 O '42

Arizona

Labor laws of the state of Arizona. rev ed 74p Industrial commission of Arizona, Phoenix '40

Australia

Australian employment regulations, 1941. Monthly Labor R 54:389-91 F '42

Belgium

Regulation of wages and working conditions in Belgium. Monthly Labor R 54:218-19 Ja '42

Brazil

See also
Child labor laws—Brazil

California

Labor code, 1941. 211p 75c Supervisor of documents, Sacramento, Calif. '41

Canada

Further restriction on strikes in Canada. Monthly Labor R 53:1155-6 N '41
New labor-market regulations in Canada. Monthly Labor R 54:1087 My '42
New regulations governing employment in essential industries; to correct mal-distribution of technical men and provide for reinstatement. A. D. P. Heeney. Pulp & Pa of Can 43:369-71 Ap '42
Selective service for Canadians; government to control employment. Can Chem & Process Ind 26:200 Ap '42

Chile

Chilean Congress has established the single-shift working day; plan for staggered hours announced. For Comm W 8:15-16 Jl 4 '42

Cuba

Cuban minimum-wage law, 1942. Monthly Labor R 54:1407-8 Je '42
Wartime regulation of port labor in Habana, Cuba, 1942. L. R. Lutkins. Monthly Labor R 55:229-30 Ag '42

France

French labour charter. Int Labour R 45:269-85 Mr '42
French labor charter. Monthly Labor R 54:397-403 F '42
Organisation of employment in France. Int Labour R 44:683-8 D '41
Regulation of conditions of employment in France. Int Labour R 46:206-10 Ag '42
Regulation of hours of work in France. bibliog Int Labour R 46:420-32 O '42
Regulations regarding civil-service employees in France. Monthly Labor R 54:130-3 Ja '42
Requisitioning of labour for agriculture in France. Int Labour R 46:344-7 S '42

Germany

Employment of women in Germany under the National-socialist régime. Int Labour R 44:617-59 D '41
New maternity protection act in Germany. Int Labour R 46:598-601 N '42
Racial discrimination in Germany in respect of labour legislation. Int Labour R 45:435-40 Ap '42
Recent aspects of the employment of women in Germany. Int Labour R 45:286-96 Mr '42

See also
Workmen's compensation—Germany

Great Britain

British employer required to bargain collectively. J. Somerville. Monthly Labor R 53:1165-6 N '41
Extension of essential-work orders in Great Britain. Monthly Labor R 53:1160-4 N '41
Lengthened hours of employment for women and youth in Great Britain. Monthly Labor R 54:1331-2 Je '42
Provision for restoration of pre-war trade practices in Great Britain. Monthly Labor R 54:1329-31 Je '42

See also
Workmen's compensation—Great Britain

Great Britain (colonies)

Labor legislation in British possessions with American bases. Monthly Labor R 54:907-16 Ap '42

Hawaiian Islands

Labor regulations of the military government of Hawaii. Monthly Labor R 54:1323-4 Je '42
Wage and hour law of Hawaii. Monthly Labor R 54:125-6 Ja '42

India

Conditions of employment in India. Int Labour R 46:601-5 N '42

Ireland

See also
Trade unions—Ireland

Italy

Conscription of labor in Italy. H. Lewis. Monthly Labor R 54:1091 My '42
Family allowances in Italy. Monthly Labor R 54:213-15 Ja '42

Maine

Labor laws of Maine. rev ed 51p Office of commissioner of labor and industry, Augusta, Me. '41

Michigan

Labor laws. 102p Michigan. Dept. of labor and industry, Lansing '40

LABOR laws and legislation—*Continued*

Netherlands Indies

Recent industrial development and labour legislation in the Netherlands East Indies. Int Labour R 45:173-6 F '42

New York (state)

Effect of home-work prohibition in artificial-flower industry. Monthly Labor R 54:642-6 Mr '42

See also Insurance, Unemployment—New York (state)

New Zealand

Wartime regulation of labor in New Zealand. Monthly Labor R 54:895-904 Ap '42

Newfoundland

Wartime labor measures in Newfoundland. Monthly Labor R 54:633-4 Mr '42

North Carolina

Labor laws of North Carolina, 1941. 56p North Carolina Dept. of labor, Raleigh '41

Oklahoma

Labor laws of the state of Oklahoma. 1941 ed 217p Oklahoma. Dept. of labor, Oklahoma City '41

Palestine

Legislation for arbitration of labor disputes adopted. For Comm W 7:11 Ap 11 '42

Panama

Labor code of Panama, 1941. Monthly Labor R 54:1161-9 My '42

Paraguay

Legal restrictions on employment of aliens in Paraguay, 1942. W. Frost. Monthly Labor R 55:477 S '42

Pennsylvania

Pennsylvania labor board may not appeal court rulings. Comm & Fin Chr 155:1545 Ap 16 '42

Rhode Island

Summary index of the labor laws of Rhode Island (together with the laws). 122p, 67p Director of labor, Providence, R.I. '40

Rumania

Wartime regulation of labour conditions in Rumania. Int Labour R 45:179-82 F '42

South Africa

South African factories act of 1941. Monthly Labor R 53:1462-4 D '41

Sweden

Government of labor relations in Sweden. J. J. Robbins. 367p $3.50 Univ. of North Carolina press, Chapel Hill '42

Switzerland

Provisions for extending the scope of collective agreements in Switzerland. Int Labour R 45:186-8 F '42

Texas

Laws of Texas relating to labor, 1942. 211p Texas. Bur. of labor statistics, Austin '42

Turkey

Compulsory labor in Turkish mines and public works. E. C. Taylor. Monthly Labor R 54:403-4 F '42

United States

Cases and materials on labor law. C. O. Gregory, comp. 721p pa $6.20 Univ. of Chicago bookstore, Chicago '41

Cases on labor law. A. H. Frey. 979p bibliog(p7, 452-3) $7.50 Callaghan '41

Chamber recommends labor law changes. Comm & Fin Chr 154:1344 D 4 '41

Civil engineer and the wage and hour law. L. M. Walling. il Civil Eng 12:327-8 Je '42

Civil engineer and the Wagner act; relationship of professional men to collective bargaining must be clarified. H. A. Millis. Civil Eng 12:487-8 S '42

Congress trying to pass toughest possible labor measure that will escape a veto. E. Blair. Barron's 21:4 D 1 '41

Coordinates wage-hour, public contracts laws; L. Metcalfe Walling, administrator for both. Comm & Fin Chr 155:1778 My 7 '42

Court restricts wage-hour administration. Comm & Fin Chr 155:1164 Mr 19 '42

Federal labor legislation, 1941. Monthly Labor R 54:696-9 Mr '42

Federal protection of labor. H. A. Millis. bibliog Ann Am Acad 224:10-18 N '42

Focal problems in American labor law; Opera on tour, inc. v. Weber L. Teller. p727-61 pa $1 Ludwig Teller, 295 Madison av, New York '42

Gas and electric utilities and the wage and hour law. B. Snyder. Am Gas Assn Proc 1941:143-51

Gist of the Fair labor standards act. J. S. Spiro and J. Milton. 158p pa $1.50 Legal reviews, New York '41

Handbook of federal labor legislation; pt. 2, Labor laws of general application. U S Labor Standards Bul 39[pt. 2]:1-150; pa 30c Supt. of doc. '41

How to avoid Labor board troubles. Brick & Clay Rec 99:17 N; 26 D '41; 100:44 Ja; 38+ F '42

Insurance is being checked on wages, hours. Nat Underw 46:3 O 22 '42

Insurance status under Fair labor standards act. H. D. Jacobs. East Underw 43:21 Ap 3 '42

Labor board must clarify attitude on employer's views; Virginia electric & power company case. Oil Paint & Drug Rep 140: 3+ D 29 '41

Labor decisions of the Supreme court, 1940 and 1941 terms. bibliog Monthly Labor R 55:530-9 S '42

Labor: public issue no. 1; what should be done. H. F. Travis. il Mag of Wall St 69: 180-2+ N 29 '41

Labor violations laid to two mills. Paper Tr J 113:27 D 11 '41

Law of labor relations. G. L. Reed. 449p $7.50 Soney & Sage co, Newark, N.J. '42

Laws and men in labor relations. A. H. Myers. Harvard Business R 21 no 1:83-94 [S] '42

Legislation on labor relations, 1941. Monthly Labor R 54:76-81 Ja '42

NLRB amplifies technical violation ruling. Business Week p59-60 Ja 24 '42

Operations under Fair labor standards act, 1941. Monthly Labor R 54:1190-2 My '42

Pensions and overtime. T. W. Holland. Bankers M 144:250 Mr '42

Problems relating to the employer-employee relationship under the Fair labor standards act. K. C. Robertson. 45p U.S. Dept. of labor, Wage and hour division, Washington '41

Recent Supreme court interpretations of labor law (1940-41). E. B. McNatt. J Business 14:356-71 O '41

Relation of insurance to federal wages and hours legislation. Ins Field (Fire ed) 71: 9-10+ Ap 2 '42

Right to voice views on labor upheld by court; in Virginia Electric & Power case the Supreme court stresses employer's right. Elec W News ed 117:5 Ja 3 '42

Selected interpretations on the Fair labor standards act. 40p Nat. ind. conf. bd. '42

Service employes under Wage hour act. Comm & Fin Chr 155:2114 Je 4 '42

Solving the employer's labor problems under new deal legislation. H. B. Rector. 257p $6 Law research service, 712 Keith bldg, Cincinnati '42

Statements clarify status of insurance co. employees under wages and hours laws. Ins Field (Fire ed) 71:8-9 F 19 '42; Same. Ins Field (Life ed) 71:7 F 20 '42

Strikes in defense industries. 299p U.S. Lib. of Congress, Legislative reference service, Washington; pa 25c Supt. of doc. '41

Supreme court says employers may make anti-union speeches and issue anti-union bulletins without violating the Wagner act. Iron Age 149:222+ Ja 1 '42

LABOR laws and legislation—United States—*Continued*

Supreme court upholds right of employer to express his views on labor issues. Comm & Fin Chr 155:26 Ja 1 '42

Three for wage-hour; division wins decision of Supreme court in two cases and lower court in another. Business Week p66 Je 6 '42

Time spent driving automobile on insurance employer's business under wage-hour law. Weekly Underw 147:287 Ag 8 '42

Typical briefs in the application of the Fair labor standards act to the employees of retail warehouses. 183p pa $1 Am. retail federation, 1627 K st, NW, Washington, D.C. '41

Wage and hour regulation. Published in Monthly labor review

Wage and hour regulations that apply to banks. Bankers M 143:531-2 D '41

Wage-hour division gives stand on war problems. Comm & Fin Chr 155:1784 My 7 '42

Wage-hour law applies to savings bank employes. L. M. Walling. Bankers M 144:355-6 Ap '42

Wage-hour wins; building service workers are in interstate commerce. Business Week p69 Ja 10 '42

What labor law? House passage of Smith bill is only first step. Business Week p16-17 D 6 '41

Worker, his job, and his government; an introduction to federal labor laws. A. Martocci and others. 63p U.S. Office of education, Washington; pa 15c Supt. of doc. '42

See also

Hours of labor—Law
Minimum wage
National conference on labor legislation
National labor relations board
Rest days
Wages—Law

LABOR laws and legislation, International

International labour code, 1939; a systematic arrangement of the conventions and recommendations adopted by the International labor conference, 1919-1939. C. W. Jenks, ed. 920p $5 International labor office, Montreal '41

International labor conventions, their interpretation and revision. C. H. Dillon. 272p bibliog(p260-5) $3 Univ. of North Carolina press, Chapel Hill '42

LABOR mobility. See Migration of workers

LABOR news. See Newspapers—Labor news

LABOR officials

Directories

National labor and welfare offices in Latin America. Monthly Labor R 54:1246-8 My '42

LABOR party (Great Britain)

Labour's aims in war and peace. C. R. Attlee and others. 153p $1.75 Rand book store, 7 E. 15th st, New York '42

LABOR productivity

Bases of worker efficiency. H. M. L. Murray. Personnel J 21:131-45 O '42

Developments affecting productivity in cotton-goods industry. I. H. Siegel and C. S. Gody. Monthly Labor R 55:47-53 Jl '42

Evaluating spray operators. W. L. Mattern. Metal Finishing 40:507-8 S '42

Labor productivity and labor cost, 1939-41. Monthly Labor R 53:1388-91 D '41

Meaning of productivity indexes. W. D. Evans and I. H. Siegel. Am Statis Assn J 37:103-11 Mr '42

Methods of securing maximum output in Great Britain. Int Labour R 44:674-9; 45:431-3 D '41, Ap '42

Problems of labor productivity in wartime. W. Lund. Ann Am Acad 224:110-16 N '42

Productivity and technological changes in the chemicals industry, 1929-40. Monthly Labor R 55:53-7 Jl '42

Productivity and unit labor cost in manufacturing industries. Monthly Labor R 54:1071-2 My '42

Productivity in slaughtering and meat-packing industry, 1919-41. A. W. Frazer. Monthly Labor R 54:1092-9 My '42

Productivity of labor in peace and war. S. Fabricant. 28p Nat. bur. econ. research '42

See also

Efficiency, Industrial
Labor cost
Labor requirements (for production)
Time study
Wage payment plans

LABOR recruiting

Detroit hunts help; hiring 80,000 women needed by auto industry will require big recruiting drive. il Business Week p72-3 Jl 4 '42

Impact of war on labor supply and labor utilization. L. Levine. Am Statis Assn J 37:54-62 Mr '42

Industrial sources of shipbuilding accessions in the Pacific Northwest. Monthly Labor R 55:735-6 O '42

Kaiser plan fails; boilermakers in Portland object to importing labor from New York. Business Week p18 O 24 '42

Spanish labour for Germany. Economist 142:326-7 Mr 7 '42

Workers West; Kaiser's need for help is Mrs Rosenberg's opportunity. Business Week p74-5 O 3 '42

LABOR requirements (for production)

Estimating labor requirements. D. H. Davenport. Am Statis Assn J 37:48-53 Mr '42

Requirements for operating second-growth pine lands. R. R. Reynolds. Pulp & Pa of Can 43:832 O '42

WPB setting up labor requirements group. Comm & Fin Chr 156:1635 N 5 '42

LABOR saving devices

American industry shares its "know how" to reveal production shortcuts; demonstration by Westinghouse electric & mfg. co. il diags Steel 111:70-4 Jl 20 '42

We ask why?—and save; work simplification, International industries, Ann Arbor. H. H. Kroll. il Factory Management 100:100-1 O '42

See also

Accounting—Mechanical aids
Machinery in industry
Mechanical handling
Office appliances

LABOR standards

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:1-34; pa 10c Supt. of doc. '41

Labor standards and war production. F. Perkins. Ann Am Acad 224:54-7 N '42

Management's search for precision in measuring a fair day's work. J. K. Louden. Advanced Management 7:27-31 Ja-Mr '42

See also

Time study

LABOR supply

Estimating labor requirements. D. H. Davenport. Am Statis Assn J 37:48-53 Mr '42

Labour redistribution for war industry. P. Waelbroeck. Int Labour R 45:367-94 Ap '42

Plan for a labor pool. C. Carmalt. Personnel J 20:279-82 F '42

Sixth Canada-United States tripartite meeting on manpower problems. Int Labour R 46:442-3 O '42

Three aspects of labor dynamics. W. S. Woytinsky. 249p $2.50 Social science research council, Washington, D.C. '42

See also

Apprentices
Employment systems
Labor recruiting
Labor turnover
Public health workers
Unemployment

Australia

Developments in Australian man-power policy. Int Labour R 46:471-5 O '42

Extension of dilution agreements in Australia. Int Labour R 45:326-9 Mr '42

Man-power problems in Australia. Int Labour R 45:556-60 My '42

Mobilisation of labour for war work in Australia. Int Labour R 46:591-4 N '42

LABOR supply—*Continued*

California

Postwar labor market in southern California. M. Handsaker. Ann Am Acad 222:162-7 Jl '42

Canada

Allocation of Canadian manpower. Monthly Labor R 55:720-5 O '42
Canada facing farm-labor shortage. For Comm W 6:29 Ap 4 '42
Canada's manpower control. il Factory Management 100:83-4+ N '42
Controlling jobs; Canada may freeze man power in present employment. Business Week p40+ Ap 18 '42
Labor mobilized; Canada provides pattern for manpower draft in U.S. Business Week p79-80+ S 12 '42
Labour supply and national defence. P. Waelbroeck and E. H. Mayer. 245p pa $1 Int. labor office, Montreal '41
Manpower crisis in Canada. Economist 143:172 Ag 8 '42
Manpower pool. Business Week p34+ Ag 29 '42
Mobilizing Canada's technical manpower. R. F. Legget. Eng N 129:489-90 O 8 '42
National service; a challenge to the engineer. E. M. Little. Pulp & Pa of Can 43:241-4 F '42
New Canadian man-power programme. Int Labour R 45:673-6 Je '42
Operation of the man-power programme in Canada. Int Labour R 46:339-40 S '42
Utilization of Canadian manpower. Monthly Labor R 55:42-5 Jl '42
War labor policies in Canada. M. Mackintosh. Ann Am Acad 224:75-83 N '42

Detroit

Detroit hunts help; hiring 80,000 women needed by auto industry will require big recruiting drive. il Business Week p72-3 Jl 4 '42
Draft for women; Detroit plans to register women workers. Business Week p72 Jl 11 '42
Inside Detroit. R. Le Grand. il Am Mach 86:798g-798h Jl 23 '42
Pirating? where? Business Week p114-15 S 12 '42

Germany

Centralization of German control over manpower. Monthly Labor R 55:727-8 O '42
Foreign workers in German war efforts. P. A. Speek. Monthly Labor R 54:1310-19 Je '42
Foreign workers in Germany by country of origin. Economist 142:259 F 21 '42
German manpower. Economist 142:109 Ja 24 '42
Germany's labor problems. For Comm W 7:4-5+ My 16 '42
Labour redistribution in Germany; the work of the Employment service. Beisiegel. Int Labour R 45:395-401 Ap '42
Man-power policy in Germany. Int Labour R 46:461-5 O '42
Manpower problems. Economist 143:16-17 Jl 4 '42
Nazi labor dearth. Business Week p68 D 6 '41
Spanish labour for Germany. Economist 142:326-7 Mr 7 '42

Great Britain

Allied labour in Britain. Economist 142:325-6 Mr 7 '42
Control of employment in Great Britain. Int Labour R 45:80-4 Ja '42
Irregular employment of mine workers in Great Britain ends in severe labor and output shortages. J. E. Norton. il Coal Age 47:45-7 My '42
Labour supply policy in Great Britain. Int Labour R 45:322-6 Mr '42
Labour supply policy in Great Britain. Int Labour R 46:190-5 Ag '42
Last ounce; achievement of proper balance in use of manpower and of greater efficiency in production. Economist 142:548-9 Ap 18 '42
Manpower crisis. Economist 142:350-1 Mr 14 '42
Measures taken in Great Britain to mobilize industrial manpower. J. S. McCauley. Monthly Labor R 53:1397-1400 D '41
New British draft; Britain plans to conscript all men up to 50, women up to 40. Business Week p47 D 13 '41
Overhauling manpower. Economist 143:356 S 19 '42
Priorities for labour. Economist 142:536 Ap 18 '42
Priorities for manpower. Economist 142:787 Je 6 '42
Target for tomorrow; crisis of manpower. Economist 141:677-8 D 6 '41
War workers; further steps to mobilise the nation for total war. Economist 143:6-7 Jl 4 '42

Kokomo, Indiana

Kokomo counts noses to learn how many skilled men were potentially available for a war production program. Am Business 12:17-18 Mr '42

New York (city)

Workers West; Kaiser's need for help is Mrs Rosenberg's opportunity. Business Week p74-5 O 3 '42

New Zealand

Control of employment in New Zealand. Int Labour R 45:442-5 Ap '42
Control of employment in New Zealand. Int Labour R 46:475-9 O '42

Philadelphia

War labor supply problems of Philadelphia and its environs. G. L. Palmer and S. M. Cohn. 54p pa 50c Industrial research dept, Univ. of Pennsylvania, 3440 Walnut st, Philadelphia '42

Russia

Agricultural labour supply problems in the U.S.S.R. Int Labour R 46:343-4 S '42
Russia at war. Economist 142:609 My 2 '42
Skilled and unskilled labour in Russia. Economist 143:16 Jl 4 '42

South Africa

Labour supply problems in South Africa. Int Labour R 46:482-3 O '42

United States

Arms and the manpower; mobilization of the total labor force is Washington's next great task. charts Fortune 25:72-5+ Ap '42; Abstract. Management R 31:114-16 Ap '42
Changes in distribution of manufacturing wage earners, 1899-1939. H. D. Kube and R. H. Danhof. 268p maps U.S. Bur. of the census, Washington; pa 30c Supt. of doc. '42
Coming labor drought; excerpts from Barron's, April 6 and May 4. J. W. Hazard. Management R 31:162-3 My '42
Coming shortage of labor supply. Bankers M 145:170-1 Ag '42
Conference board finds labor shortage likely. Comm & Fin Chr 154:1345 D 4 '41
Defense migration and labor supply. H. B. Myers. Am Statis Assn J 37:69-76 Mr '42
Draft of semi-skilled labor seen imminent; employment of women and men over 45 urged. A. V. McDermott. Comm & Fin Chr 155:2215 Je 11 '42
Effect of defense program on private manufacturing employment. T. F. Corcoran and H. F. Houghton. map Monthly Labor R 54:1-15 Ja '42
Eight orders listed for mobilization. Comm & Fin Chr 155:2128 Je 4 '42
Employee shifts during war tough, but interesting. J. H. Collins. Pub Util 30:641-9 N 5 '42
Employment policy in the United States. Int Labour R 46:594-6 N '42
Estimated labor requirements for the aircraft industry under the national defense program, June 1941. J. H. Croston. 39 numb l U.S. Bur. of labor statistics, Employment and occupational outlook branch, Washington '41

LABOR supply—United States—*Continued*

Final results of labor poll conducted by Iron Age. D. C. MacDonald. Iron Age 150:77-81 O 29 '42

Financial situation; manpower problem. Comm & Fin Chr 156:1633-4 N 5 '42

Finds unemployment lowest since 1930; labor shortage is in prospect. Comm & Fin Chr 155:25 Ja 1 '42

Foresees 6 million women engaged in war work. Comm & Fin Chr 155:1860 My 14 '42

FDR must grapple with 40-hour week and manpower authority before drafting labor. E. Blair. Barron's 22:4 N 2 '42

Freezing of labor may be extended soon, American management association is told. Am Mach 86:1192d O 15 '42

Future supply of professionally trained manpower. C. S. Marsh. Monthly Labor R 55:247-50 Ag '42

Get ready for a labor shortage. J. W. Hazard. Barron's 22:3 Ap 6 '42

Get ready now for manpower control. il Factory Management 100:58-64 Jl '42; Abstract. Management R 31:226-8 Jl '42

Here's the manpower program. Business Week p15-16 Jl 4 '42

How America must use its manpower. P. V. McNutt. Factory Management 100:58-63 Je '42

How coming manpower shortage will affect you. H. M. Tremaine. il Mag of Wall St 70:640-2+ O 3 '42

How labor shortages will spread; lists by occupations and cities. J. W. Hazard. Barron's 22:3 My 4 '42

How the labor draft will work. Business Week p7 Mr 28 '42

How the labor shortage will be solved; abstract. Management R 31:157-8 My '42

How war business is distributed. Business Week p22 N 7 '42

Impact of war on labor supply and labor utilization. L. Levine. Am Statis Assn J 37:54-62 Mr '42

Job aid for men over 40. Comm & Fin Chr 155:1861 My 14 '42

Labor mobilization. Trusts & Estates 74:445-6 My '42

Labor shortages; vital occupations show strain. Business Week p76-7 D 13 '41

Labor situation as reported by the Coal division. Min Cong J 28:39-45, 56 Ag '42

Labour supply policy in the United States; statement by the War manpower commission. Int Labour R 46:467-9 O '42

Manning tables, job and labor inventory. Business Week p18-19 N 7 '42

Manning tables to help you plan orderly withdrawals and replacements in working force. map Factory Management 100:74-82 N '42

Manpower. Survey of Cur Business 22:5-7 O '42

Man power board plans labor priorities. Comm & Fin Chr 155:1711 Ap 30 '42

Manpower control comes to life. il Business Week p17-19 O 3 '42

Manpower control to prevent pirating. Monthly Labor R 55:460-2 S '42

Manpower draft takes form; compulsory allocation of labor to industry. Business Week p15 Ap 11 '42

Manpower in the war. R. Rubicam. Paint Oil & Chem R 104:68-70 N 5 '42

Manpower problems. Nat City Bank p123-5 N '42

Men for industry; occupation questionnaire. Business Week p70-1 Ap 25 '42

Metal mining's manpower problem. Min Cong J 28:23-31 S '42

Mobilisation of labour for defense in the United States. Int Labour R 45:560-5 My '42

Names policy group for manpower board. Comm & Fin Chr 155:2224 Je 11 '42

Nation appraises its womanpower. Business Week p22 My 16 '42

New bottlenecks for old. Business Week p15-16 F 7 '42

No labor draft. Business Week p35-7+ N 7 '42

Objective of manpower commission is to break bottle necks. P. V. McNutt. Comm & Fin Chr 155:2037 My 28 '42

One answer to the labor shortage question; physically handicapped. Am Business 12:25+ Ja '42

Our 130 million at war; what U.S. population will be doing by the end of the year. Barron's 22:1 Jl 27 '42

Outline plan to mobilize labor for war work giving government power to allocate workers. Comm & Fin Chr 155:1447 Ap 9 '42

Pirating banned; sixty leading war plants in Buffalo agree to voluntary pact. Business Week p90+ N 7 '42

Policies and procedures of War manpower commission. Elec Eng 61:332 Je '42

Potential labor supply in the United States, March 1942. Monthly Labor R 54:1450 Je '42

Potential war workers in an urban area. D. Yoder and H. G. Heneman, jr. Monthly Labor R 55:203-5 Ag '42

Prepare now for labor shortages. G. L. Montgomery. il Food Ind 14:60-1 Mr '42

President creates man-power commission for most effective mobilizing and use of labor. Comm & Fin Chr 155:1631 Ap 23 '42

President warns manpower legislation may be needed; calls for lowering draft age to 18; radio address to the Nation. Comm & Fin Chr 156:1353, 1358-9 O 15 '42

Problem of priority unemployment. J. D. Brown. Ann Am Acad 224:69-74 N '42

Problems of readjustment in the postwar labor market. A. F. Hinrichs. Ann Am Acad 224:157-64 N '42

Regulations on wartime control of manpower. Monthly Labor R 55:714-17 O '42

Survey reveals startling facts about manpower problem. Iron Age 150:114+ O 22 '42

Surveying man power. Business Week p81 Mr 21 '42

Trouble on the Northwest frontier: a correspondent's travel report. Fortune 26:24+ N '42

WMC bars job shifting in western lumber-metal industries. Comm & Fin Chr 156:992 S 17 '42

War manpower commission; organization and powers. Monthly Labor R 54:1325-7 Je '42

War manpower developments; regulation of enlistment of men in federal posts and war industry. Am Water Works Assn J 34:1734-6 N '42

Wartime labor directives of Manpower commission. Monthly Labor R 55:223-6 Ag '42

Wasting of manpower; abstract. J. J. Corson. Management R 31:294-6 S '42

Where can we get manpower? O. S. Beyer. Ry Age 113:568-70 O 10 '42

Who gets men? enlistments, draft, war industry all vie for personnel. Business Week p18-19 Jl 25 '42

Will conscription for war work come? il Factory Management 100:58-64 F '42

See also

Farm labor

Military service—
  Labor problems

LABOR turnover

Fancy wages or steady job; counteracting high wage inducement of war production plants; Los Angeles railway. H. Jordan. Bus Transportation 21:350-1 Ag '42; Discussion. 21:405-7 S '42

High labor turnover production problem. Comm & Fin Chr 156:1271 O 8 '42

Labor turn-over in manufacturing, December 1941. Monthly Labor R 54:774-8 Mr '42 [cont monthly]

Labor turn-over in manufacturing, 1930-41. Monthly Labor R 54:1193-1205 My '42

Monthly quit rate per 100 employees on the pay roll in manufacturing industries, Aug. 1939 and 1941; chart. Survey of Cur Business 21:2 N '41

Three aspects of labor dynamics. W. S. Woytinsky. 249p $2.50 Committee on social security, Social science research council, Washington, D.C. '42

See also

Employment management

Employment systems

LABOR unions. See Trade unions

LABORATORIES

Research laboratories building; new Bell telephone laboratory. il diag Eng N 128:344-7 F 26 '42

Research laboratories in industries. O. E. Buckley. Science 96:100-2 Jl 31 '42

Role of science institutions in our civilization. W. D. Coolidge. Science 96:411-17 N 6 '42

Survey of scientific and industrial laboratories in Canada. 89p Canada. Dominion bur. of statistics, Ottawa '41

Timber arches for a laboratory; building for the Army Signal corps. il diag Eng N 128: 416-17 Mr 12 '42

See also

Biological laboratories
Chemical engineering laboratories
Chemical laboratories
Electric laboratories
Engineering laboratories
Food laboratories
Foundry laboratories
Highway departments—Laboratories
Hydraulic laboratories
Industrial research
Laundry laboratories
Metallurgical laboratories
Moving picture laboratories
Petroleum laboratories
Radio corporation of America—Laboratories
Radio laboratories
Sewage disposal plants—Laboratories
Testing laboratories

also American gas association—Appliance testing laboratory; Bell telephone laboratories

Air conditioning

Air conditioned chemistry laboratory does its part in winning the war; Columbia chemical div. of the Pittsburgh plate glass co. L. T. Avery. il diag Heating-Piping 14:295-7 My '42

Air treated death house for flies; laboratory of Sinclair refining co. for testing insecticides. il Sheet Metal Worker 33:114+ Ja '42

Microfilm photography; air conditioning in the Photographic laboratory, Brown university. Science 96:266 S 18 '42

See also

Biological laboratories—Air conditioning

Directories

Directory of commercial testing and college research laboratories. A. E. Rapuzzi, comp. U S Nat Bur Stand Misc Pub M171:1-63; pa 15c Supt. of doc. '42

Equipment

Laboratory flowmeter with interchangeable precision-bore capillaries. F. C. Croxton. diag Ind & Eng Chem Anal ed 14:69-70 Ja 15 '42

Laboratory temperature and humidity cabinet for studying the hygroscopic properties of tobacco. L. H. Davis, A. W. Petre and C. F. Bailey. il diag Ind & Eng Chem Anal ed 14:587-90 Jl 15 '42

Pressure regulating and indicating apparatus for vacuum systems. B. Ferguson, jr. diags Ind & Eng Chem Anal ed 14:164-5 F 15 '42

Regulations concerning laboratory equipment; War production board. J. S. Knowlson. Science 95:652-4 Je 26 '42

War production board regulations relating to the purchase of scientific and laboratory equipment and supplies. R Sci Instr 13:325-32 Ag '42

See also

Electric furnaces, Laboratory
Washing apparatus, Laboratory

LABORATORIES, Foundry. See Foundry laboratories

LABORATORIES, Hydraulic. See Hydraulic laboratories

LABORATORIES, Testing. See Testing laboratories

LABORATORIES, Traveling

Mud control of vital importance to drilling technique; portable mud-testing laboratory. W. A. Sawdon. il Pet Eng 13:52, 54, 56 Je '42

Traveling laboratory control of bottlers' operation; Coca-Cola company. B. Wells. il Am Water Works Assn J 34:1035-41 Jl '42; Same. Water & Sewage 80:23-4+ Jl '42

LABORATORY furnaces. See Electric furnaces, Laboratory; Furnaces, Laboratory

LABORATORY work

Importance of laboratory work in general chemistry at the college level. C. S. Adams. J Chem Educ 19:226-70 Je '42

LABORATORY workers

Training apprentices in the laboratory. H. R. McCoy. il Foundry 70:58-60, 157-9 F; 72-3, 153-7 Mr '42

LAC

India's industrial insects; they produce shellac. D. R. Crone. il For Comm W 8:4-7+ S 26 '42

Lac reactions with metallic oxides; abstract. N. R. Kamath and R. Bhattacharya. Chem Age (Lond) 46:180 Ap 4 '42

Stick-lac production in French Indochina. For Comm W 6:24 F 21 '42

Story of lac. A. J. Gibson. Chem Age (Lond) 46:123 Mr 7 '42

See also

Shellac

LACCOLITH

New interpretation of some laccolithic mountains and its possible bearing on structural traps for oil and gas. C. B. Hunt. bibliog diags Am Assn Pet Geologists Bul 26:197-203 F '42

LACE fabrics

Apparel laces boom. G. H. Arris. il Textile World 92:70 Ag '42

New mesh designs for cotton hosiery. il Rayon 23:404 Jl '42

LACE leather. See Leather—Testing

LACLEDE gas light company

Amendment to plan filed; reorganization tied in with sale of electric properties. Comm & Fin Chr 156:80 Jl 6 '42; Excerpt. Elec W News ed 118:20 Jl 4 '42

Few serious maturity problems in 1942; $13 million Laclede Gas obligations due next year involves recapitalization. A. Jansen. Barron's 21:19 D 29 '41

Files amendment to reorganization plan. Comm & Fin Chr 156:1240 O 5 '42

Laclede Gas in improved position. A. Jansen. Barron's 22:19 N 2 '42

Listing of certificates of deposit; income account, 1939-1941. Comm & Fin Chr 155: 1409 Ap 6 '42

SEC approval of proposed Laclede maturity extensions advances big utility reorganization. Comm & Fin Chr 155:1122 Mr 16 '42

To refund $1,479,301 to customers. Comm & Fin Chr 155:540 F 3 '42

LACLEDE power and light company

Sells properties to Union electric co. of Missouri. Comm & Fin Chr 155:1921 My 18 '42

LACQUER and lacquering

Cellulose lacquers; abstract. E. H. Davies. Chem Age (Lond) 47:365 O 24 '42

Corrosion-inhibiting additive for clear lacquers, nitrocellulose solutions, and alcoholic shellacs. J. M. Crowe. Chem Ind 50:792 Je '42

Corrosion inhibitor for lacquers. Metal Finishing 40:450-1 Ag '42

Finishing defense products. F. V. Faulhaber. il Metal Finishing 40:279-80, 283 My '42

Finishing of Greyhound coaches. W. A. Duvall. il Metal Finishing 40:163-4 Mr '42

How the coating industry is using the nitroparaffins. C. Bogin. Paint Oil & Chem R 104:9-11+ Ag 27; 9-11, 26-8 S 10; 9-10, 24-9 S 24 '42

Infra-red drying cuts process costs; Sessions clock company. il Elec W 117:532 F 7 '42

Lacquer inhibitor; eliminates need for shipping tin-lined drums. Chem & Met Eng 49:140 Je '42

Lacquer plasticizers. Oil Paint & Drug Rep 142:46-7 O 26 '42

Lactic acid lacquer for milk cans tested. Food Ind 14:87-8 Jl '42

LACQUER and lacquering—*Continued*

New lacquer additive is rust inhibiting. Steel 110:88 My 18 '42

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42; Same cond. Chem Age (Lond) 47:377-80 O 31 '42

Nitroparaffins as solvents in the coating industry; abstract. H. L. Wampner and C. Bogin. Paint Oil & Chem R 104:10 My 7 '42; Same. Chem Ind 50:640 My '42; Same. Chem & Met Eng 49:156 Jl '42

Print lacquering. D. D. Nibbelink. diags Photo Tech 3:34-6 D '41

Protective coatings for German war machine. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ap 13 '42

Synthetic coatings. O. P. Clipper. Paint Oil & Chem R 104:9-12, 28-32 F 12; 11-12, 14, 38-9, 51-2 F 26 '42

Textile printing by pigmented lacquers. E. A. Ellis. Textile Col 64:38-9 Ja '42

See also

Shellac

Varnish and varnishing

LACTAMIDE

Apparent molal heat capacities and volumes of the amino acids and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42

Densities and specific heats of aqueous solutions of *dl*-α-alanine, β-alanine and lactamide. F. T. Gucker, jr. and T. W. Allen. bibliog Am Chem Soc J 64:191-9 F '42

LACTATION

Lactational performance and body weight. S. Brody. Science 95:485-6 My 8 '42

LACTIC acid

Lactic acid in textile and laundry work. G. S. Ranshaw. Textile Col 64:356-9 Jl '42

Lactic acid lacquer for milk cans tested. Food Ind 14:87-8 Jl '42

Non-utilization of lactic acid by the lactating mammary gland. R. C. Powell, jr. and J. C. Shaw. Science 96:403 O 30 '42

Pyrolysis of lactic acid derivatives; conversion of methyl *a*-acetoxypropionate to methyl acrylate. L. T. Smith and others. bibliog Ind & Eng Chem 34:473-9 Ap '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

LACTOBACILLUS acidophilus

Domestic water and dental caries; effect of increasing the fluoride content of a common water supply on the lactobacillus acidophilus counts of the saliva. F. A. Arnold, jr., H. T. Dean and E. Elvove. bibliog Pub Health Rep 57:773-80 My 22 '42

LACTOBACILLUS casei

Growth stimulants in the microbiological assay for riboflavin and pantothenic acid. J. C. Bauernfeind, A. L. Sotier and C. S. Boruff. Ind & Eng Chem Anal ed 14:666-71 Ag 15 '42

Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

LACTOFLAVIN. See Riboflavin

LACTOGLOBULIN. See Globulins

LACTONES

Application of the dropping-mercury electrode to the investigation of the polyhydroxy acids and lactones. H. Matheson, H. S. Isbell and E. R. Smith. bibliog diags J Research Nat Bur Stand 28:95-131 Ja '42

LACTOSE

Ethyl alcohol from fermentation of lactose in whey. H. H. Browne. bibliog News Ed 19:1272+ N 25 '41

Hudson announces first synthesis of lactose. F. C. Whitmore. Chem & Eng N 20:750 Je 10 '42

Syntheses of epi-lactose and lactose. W. T. Haskins, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1852-6 Ag '42

Syntheses of lactose and its epimer. W. T. Haskins, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:1490 Je '42

LADDERS

Low-cost ladder attachment for truck. il diags Elec W 117:1372 Ap 18 '42

Safety measures

Check up on ladders. Safety Eng 82:23 D '41

Ladder accidents. Nat Safety N 45:38, 40 Ja '42

Ladders; suggestions for selection and use. il diags Nat Safety N 45:79-80 Mr '42

LADLES

See also

Foundry ladles

LA GRANDE, Oregon

Water supply

Constructing the La Grande reservoir. E. H. Ford. il diags Pub Works 73:19-20 O '42

LAHEY, Edwin A.

Navy hires a labor relations man. por Business Week p7 Jl 4 '42

LAIRD, John Melvin, 1885-1942

Sketch. por Nat Underw (Life ed) 46:1+ Je 26 '42; East Underw 43:3 Je 26 '42

LAKE colors

Lakes, toner output, 1941; tabulation. Oil Paint & Drug Rep 142:27 S 14 '42

LAKE sulphite pulp company, limited

Brompton co. offers to buy Lake Sulphite. Paper Tr J 113:7 D 11 '41

LAKE water. See Water supply

LAKES

General law of diminution of light intensity in natural waters and the percent of diffuse light at different depths. L. V. Whitney. diags Opt Soc Am J 31:714-22 D '41

Sediments of Grassy lake, Vilas county, a large bog lake of northern Wisconsin. W. H. Twenhofel, S. L. Carter and V. E. McKelvey. bibliog diag map Am J Sci 240:529-46 Ag '42

Studies on Connecticut Lake sediments; the biostratonomy of Linsley pond. E. S. Deevey, jr. diags Am J Sci 240:233-64, 313-24 bibliog(p322-4) Ap-My '42

Underflow studies at Lake Issaqueena. J. W. Johnson. il Civil Eng 12:513-16 S '42

Water conservation in New Hampshire. R. S. Holmgren. N E Water Works Assn J 56:1-7 Mr '42

LAKES, Extinct

Tilted postglacial lake beds in Ohio. G. D. Hubbard and R. C. Rockwood. bibliog maps Geol Soc Bul 53:227-66, pl 1-2 F '42

LALOR foundation

Fellowships of the Lalor foundation. Science 96:421-2 N 6 '42

LAMB, Arthur Becket, 1880-

Nichols medal won by Lamb. Oil Paint & Drug Rep 142:5 N 9 '42

LAMB (meat). See Mutton

LAMINARIN

New method of end-group assay for laminarin and similarly constituted polysaccharides. V. C. Barry. Chem Soc J p578-81 S '42

LAMINATED glass. See Glass, Laminated

LAMINATED plastics. See Plastic materials, Laminated

LAMINATED wood. See Wood, Laminated

LAMME, Benjamin E., medals

Forrest E. Ricketts, 1941 Lamme medalist; with address by N. Stahl and response by F. E. Ricketts. il Elec Eng 61:396-401 Ag '42

Lamme award, Roy Andrew Seaton. J Eng Educ 33:1-4 S '42

LA MONT boiler. See Boilers, Water tube—La Mont boiler

LAMP shades

Plastics competition award to Rosenstein bros.; Tenite II. il Mod Plastics 19:92-3 N '41

LAMPBLACK

Changes in spectral transmission of soda silicate glass caused by the addition of lampblack and graphite. W. M. Cohn. bibliog il Glass Ind 23:95-8 Mr '42

See also

Carbon black

LAMPS

Lightolier teaches dealers to link lamps with accessories; new designs of non-priority materials, women in the factory, steady national advertising. il Sales Management 51:42+ Ag 15 '42

See also

Electric lamps

LAND, Emory Scott, 1879-

Key men of the Maritime commission. por Marine Eng 47:164-6 O '42

Portrait. Business Week p42 F 21 '42

LAND

See also

Agriculture
Drainage
Eminent domain
Irrigation
Land banks
Land tenure
National parks and reserves
Oil lands
Public lands
Real estate business
Real property
Recreation areas
Rent

Classification

Classification of irrigable lands. W. W. Johnston. map Am Soc C E Proc 68:667-82 My '42; Discussion. 68:781-2, 1452-4 My, O '42

National resources board on land classification. W. F. Musbach and V. W. Johnson. J Land & Pub Util Econ 17:489-93 N '41

Quantitative test of the significance of land-use areas. D. L. MacFarlane. maps J Land & Pub Util Econ 18:293-8 Ag '42

Sampling errors of systematic and random surveys of cover-type areas. J. G. Osborne. charts Am Statis Assn J 37:256-64 Je '42

Sampling with transverse traverse lines. M. J. Proudfoot. Am Statis Assn J 37:265-70 Je '42

Taxation

Land-tax illusion; fiscal factor in rise and fall of municipal empires. R. L. Hoguet. Trusts & Estates 75:115-18 '42

Subsurface resources and surface land economics. J. Salisbury, jr. and L. A. Salter, jr. bibliog J Land & Pub Util Econ 17: 385-93 N '41

Bibliography

Tax delinquency on rural real estate, 1928-1941. H. E. Hennefrund, comp. 314p U.S. Bur. of agricultural economics, Library, Washington '42

California

See also

Central Valley project, California

Mexico

See also

Mexico—Expropriation policy

LAND, Public. See Public lands

LAND banks

Commerce chamber report on farm mortgage legislation. Comm & Fin Chr 156:286 Jl 23 '42

Land bank borrowers pay. Comm & Fin Chr 155:1036 Mr 12 '42

Land bank loan rate extended by President. Comm & Fin Chr 156:109 Jl 9 '42

Mortgage bankers plan to insure farm loans. Comm & Fin Chr 156:725 Ag 27 '42

Oppose more government capital for land banks. W. I. Myers. Comm & Fin Chr 155: 1230 Mr 26 '42

LAND grants, Railroad. See Railroad land grants

LAND settlement

Land settlement in Argentina. Int Labour R 45:199-201 F '42

New settlement in the delta of the lower Mississippi valley. P. E. Jones, J. E. Mason and J. T. Elvove. J Land & Pub Util Econ 17:465-76 N '41

Subsurface resources and surface land economics. J. Salisbury, jr. and L. A. Salter, jr. bibliog J Land & Pub Util Econ 17: 385-93 N '41

LAND surveying. See Surveying

LAND tenure

Problems of range land tenure. C. W. Loomer. J Land & Pub Util Econ 18:214-17 My '42

See also

Agricultural colonization
Farm tenancy
Land titles
Landlord and tenant
Leases
Oil lands
Real property
Rent

Great Britain

Programme for agriculture. B. S. Vesey-FitzGerald, ed. 206p 10s 6d M. Joseph, London '41

Wisconsin

Future of private forest land ownership in the northern lake states. C. H. Stoddard, jr. bibliog J Land & Pub Util Econ 18: 267-83 Ag '42

LAND titles

Ohio real property titles, practice, outlines and forms. K. Wright and E. R. McNeill. 424p $8 Haynes pub. co, 510 Auditorium bldg, Cleveland '41

Principles of land law under the Land registration act, 1925. H. Potter. 121p 10s Sweet & Maxwell, London '41

LAND trust certificates

Little-known type of security. W. J. Mericka. Comm & Fin Chr 155:551 F 5 '42

LAND utilization

Dilemma of land use; comparison of sales booklet and Experiment station bulletin. A. L. Bertrand. J Land & Pub Util Econ 18:220-2 My '42

Economic survey of the Pacific area; pt. 1, Population and land utilization. K. J. Pelzer. 215p $2 Inst. of Pacific relations, New York '41

Future of private forest land ownership in the northern lake states. C. H. Stoddard, jr. bibliog J Land & Pub Util Econ 18:267-83 Ag '42

Geographic aspects of land utilization in Hungary. O. Kuthy. 26p bibliog(p25-6) pa 75c New York univ, New York '42

Land economics in transition. V. W. Johnson. J Land & Pub Util Econ 18:85-7 F '42

Land-use clinics aid cities in utilization of tax-reverted property in Michigan. Eng N 129:414 S 24 '42

Land use planning in relation to highways, with specific reference to Delta county, Colorado. W. J. Keller. maps Pub Roads 23:5-13 Mr '42

Land; Uthwatt committee report on system of land ownership. Economist 143:352-3 S 19 '42

Post-war planning; the Uthwatt committee and public utilities. Elec R (Lond) 131:373-4 S 18 '42

Progress in Arkansas land policy. W. J. Coleman. J Land & Pub Util Econ 18:87-90 F '42

Quarter century of land economics. C. A. Dykstra. J Land & Pub Util Econ 18:1-3 F '42

Sampling with transverse traverse lines. M. J. Proudfoot. Am Statis Assn J 37:265-70 Je '42

State rural land use legislation in 1941. A. B. Jebens. bibliog J Land & Pub Util Econ 18:328-38 Ag '42

Subsurface resources and surface land economics. J. Salisbury, jr. and L. A. Salter, jr. bibliog J Land & Pub Util Econ 17: 385-93 N '41

Tax-reverted land for city expansion. Eng N 128:787 My 7 '42

LAND utilization—*Continued*

To stop urban blight; partnership between private and public effort is proposed. A. W. Binns. il Tech R 44:130+ Ja '42

Transition in the northern Lake states. L. A. Salter, jr. J Land & Pub Util Econ 18:92-6 F '42

Use of land. Economist 142:30-1 Ja 10 '42

See also

Agriculture
Drainage
Farm management
Forest management
Irrigation
Land—Classification
Land settlement
National parks and reserves
Parkways
Ranges
Recreation areas
Regional planning
Soil conservation
Zoning

Bibliography

Planning bibliography. 3d ed 13 numb l pa 25c Am. soc. of planning officials, 1313 E. 60th st, Chicago '41

Classification of lands

See Land—Classification

LAND values

Farm real estate market in war time. M. M. Regan. J Land & Pub Util Econ 18:140-5 My '42

Land-tax illusion; fiscal factor in rise and fall of municipal empires. R. L. Hoguet. Trusts & Estates 75:115-18 Ag '42

Patterns and recent trends of Chicago's outlying business centers. H. M. Mayer. maps J Land & Pub Util Econ 18:4-16 F '42

Signs of a farm land boom. R. P. Crawford. Barron's 22:3 S 21 '42

What of farm prices? possible trends in farm land values. A. G. Black. Bankers Mo 59:341-2+ Ag '42

LANDLORD and tenant

Cases and materials on the law of landlord and tenant. A. C. Jacobs. 2d ed 815p $6 West '41

Hotelkeeper's liability distinguished from landlord's liability; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:26-8 Jl 23 '42

Landlord and tenant; government requisitioning. Economist 142:250-1 F 21 '42

Landlord and tenant in Eire. Economist 141:751-2 D 20 '41

Tenant-right valuation in history and modern practice. D. R. Denman. 270p bibliog(p229-30) 15s W. Heffer & sons, Cambridge, Eng. '42

Tenants and war damage; effects of new amending act. F. E. Sugden. Elec R (Lond) 130:47-8 Ja 9 '42; Same. Mech Handling 29:33-4 F '42

To halt evictions and unwarranted house sales. Comm & Fin Chr 156:1556 O 29 '42

War damage; new arrangement for conditional notice. F. J. Tebbutt. Chem Age (Lond) 45:233 N 1 '41

War damaged premises; procedure for settling rent disputes. F. E. Sugden. Elec R (Lond) 131:202 Ag 14 '42

See also

Apartment houses
Leases
Real estate business
Rent

LANDS, Public. See Public lands

LANDSCAPE

Landscape as developed by the processes of normal erosion. C. A. Cotton. 301p $7 Macmillan (Toronto) '41

LANDSCAPE architecture

Accent on space; critique of residence of T. S. Holden, Darien, Connecticut. J. Labatut. il plans Arch Rec 92:55-62 Jl '42

LANDSCAPE gardening

Contourscaping. R. R. Root. 246p $10 Ralph F. Seymour, 410 S. Michigan av, Chicago '41

Right in your own backyard. H. W. Steck 76p $1.75 G. W. Stewart, New York '42

See also

Parkways
Roadside planting

LANDSLIDES

Cables by-passed around a landslide; relaid on surface in wooden casing. il Elec W 118:617 Ag 22 '42

Draining to prevent slippage of a road fill. il Pub Works 73:23-4+ Jl '42

Fort Peck slide. T. A. Middlebrooks. il diags Am Soc C E Proc 66:1729-48 D '40; Discussion. 67:488-90, 723-6, 891-8, 1242-4, 1887-8; 68:152-6 Mr-My, S, D '41-Ja '42

Pipe drains stop an earth slide; St Mary's playground in San Francisco. il Eng N 128:539-40 Ap 9 '42

Problems connected with landslides; abstract. T. H. Dennis and R. J. Allan. Roads & Bridges 80:79-80 Ja '42

Soil mechanics studies and reconstruction work; protecting pumping station from slides; Grapevine grade on U.S. 99 in California. V. J. Brown. il diags plan Roads & Sts 85:25-32 Mr '42

LANGLEY, Samuel Pierpont, 1834-1906

Aide in aerodromics; Charles Matthews Manly, assistant to Samuel Langley. S. P. Johnston. pors il Tech R 44:218-20+ Mr '42

LANGMUIR, Irving, 1881-

Portrait. Fortune 23:64 Ap '42

LANGUAGE and languages

Gift of tongues. M. Schlauch. 342p bibliog (p299-306) $3.50 Modern age books, New York '42

LANGUAGES, Modern

See also

English language
Proofreading
Spanish language

LANITAL. See Wool, Artificial

LANSBURGH, Richard H. 1893-1942

Sketch. V. S. Karabasz. Advanced Management 7:141 Jl-S '42

LANSING, Michigan

Sewerage

Operating results in Lansing's combined garbage-sewage disposal. W. R. Drury. il Pub Works 73:24-6 Ja '42

LANTERN projection

Illustrating the technical lecture. E. S. Tompkins. Engineering 153:474-5, 495 Je 12-19 '42

Picture projection on blackboards in illuminated rooms. H. E. Dance. il Engineering 153:421-2 My 29 '42

Some new uses for the 2 x 2 projector. P. H. Pope. Science 96:46 Jl 10 '42

See also

Slide film projectors

LANTERN slides

Investment review on the screen; aids trust committee and reduces costs. D. Munro. Trusts & Estates 74:511-12 My '42

Lantern slides of actual crystals. H. H. Fillinger. il J Chem Educ 19:369-71 Ag '42

New kodachrome slide series of the American museum of natural history. Science 95:295 Mr 20 '42

Preparation of lantern-slide copy. C. A. Moore. maps charts Am Assn Pet Geologists Bul 26:1656-71 O '42

Typescript for lantern slides used in illustrating the technical lecture. H. E. Dance. il Engineering 154:15 Jl 3 '42

See also

Slide films

LANTERNS, Electric. See Electric lanterns

LANTHANUM hydroxide

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

LAOTIRA cambria Walcott

Laotirid from the upper Cambrian of Wyoming. K. E. Caster. bibliog Am J Sci 240:104-12, pl 1 F '42

LAPLAND

Necessity's Arctic children. N. James. il Tech R 44:69-71, 86+ D '41

LAPPING

Method of working metal flats. S. J. Needs. Sci Am 167:190-2 O '42

LAPPING—*Continued*

Optically flat surfaces on mass production basis; using stones made with microbond. Automotive Ind 85:46 D 1 '41

Slotter set-up for lapping operation. il Mach 49:229 N '42

See also
Polishing

LARAMIE, Wyoming

Water supply

Capacity tests of ground-water sources. R. D. Goodrich. Am Water Works Assn J 34: 1629-34 N '42

LARAMIE valley

Structure of the upper Laramie River valley, Colorado-Wyoming. R. H. Beckwith. bibliog map fold pl Geol Soc Bul 53:1491-1532 O '42

LARCH

Constitution of arabo-galactan. E. V. White. bibliog Am Chem Soc J 63:2871-5; 64:302-6 N '41, F '42

LARD

Explosion of lard cooling roll kills 2, injures 12. Locomotive 44:113+ O '42

Lard-cooled ships; fats as insulation for perishable foods makes refrigeration unnecessary. Business Week p54 N 29 '41

Ships use lard as refrigerant. Food Ind 14:77 Ja '42

Wanted: fats, oils. Business Week p100+ D 6 '41

LARMOR, Sir Joseph, 1857-1942

Sketch. Engineering 153:414 My 22 '42

LARYNX

Diseases and injuries of the larynx. C. Jackson and C. L. Jackson. 2d ed rev 633p bibliog(p593-8) $7.50 Macmillan '42

Laryngeal ventricle considered as an acoustical filter. A. Pepinsky. bibliog Acoustical Soc Am J 14:32-5 Jl '42

Some aspects of model larynx function. R. Carhart. il Acoustical Soc Am J 14:36-40 Jl '42

LASSITER, Robert Gilliam, 1881-

Sketch. por Explosives Eng 20:220-1 Ag '42

LATENT heat of vaporization. See Vaporization, Heat of

LATENT image. See Photography—Latent image

LATEX. See Rubber latex

LATHES

Accuratool 7¾-in. swing high-speed capstan lathe. il Engineering 154:306 O 16 '42

Attachment duplicates contour. J. J. O'Wril. diag Am Mach 86:956 S 3 '42

Axelson heavy-duty screw-cutting lathe. il Engineering 153:407 My 22 '42

Axelson 32-in. lathe has two-speed tailstock. il diags Product Eng 13:432-5 Ag '42

Bench lathe converted for turret work. F. S. McGibbon. il Am Mach 86:883-4 Ag 20 '42

Blount ball bearing headstock motor-in-leg lathes. il Am Mach 86:1196 O 15 '42

Bradford Metalmaster geared-head lathe. il Mach 48:161-2 F '42

Carbide tooling of large machines. F. W. Lucht. diags Steel 111:84-6 Ag 24 '42

Cemented carbide gun drills. W. R. Meyer and W. A. Kimsey. il diags Iron Age 150: 53-7 Ag 13 '42

Converted lathes win war work. B. Darcy. il Am Mach 86:826-8 Ag 6 '42

Denham's heavy-duty engine lathe. il Automobile Eng 31:411-12 N '41

Edgwick six-inch three-operation lathe. il Engineer 174:283-4 O 2 '42

Engine lathe operations. G. G. Whipple and A. C. Baudek. 147p pa $1.60 McKnight & McKnight, 109 W. Market st, Bloomington, Ill. '42

Expanding arbors for lathe work. J. G. Jergens. diags Am Mach 86:438-9 My 14 '42

Foster turret lathe with automatic speed changes. il Engineering 154:147-8 Ag 21 '42

Foster universal ram-type turret lathe. il Am Mach 86:1256+ O 29 '42

Frankel lathe. il Am Mach 85:1343 D 24 '41

Gisholt saddle-type turret lathes. il Ry Mech Eng 116:224-5 My '42

Herbert heavy-duty combination turret lathe. il diag Engineer 174:59-60 Jl 17 '42

Herbert motor-driven capstan lathe. il Engineer 172:322 N 7 '41; Engineering 152:386 N 14 '41

Herbert multi-speed capstan lathe. il Automobile Eng 31:409-10 N '41

Herbert 6-in. centre three-operation lathe. A. Herbert. il Engineering 154:326 O 23 '42

Herbert 22½-in. swing combination turret lathe. il Engineering 154:86-7 Jl 31 '42; Automobile Eng 32:317-18 Ag '42

How to run a lathe. J. J. O'Brien and M. W. O'Brien. 41st ed 128p 25c; lea'tte 75c South Bend lathe works, South Bend, Ind. '41

Individual motors drive ball lathes. il Elec W 117:1379 Ap 18 '42

Jones & Lamson nos. 9A and 10A turret lathes. il Am Mach 86:975 S 3 '42; Mach 49:195 S '42

Lathe adapted for over-size work. P. C. Wiegandt. il Am Mach 86:445 My 14 '42

Lathe operator's manual. B. R. Hilton. 132p $2.40 Pitman '41

Libby no. 4 universal ram type turret lathe. il Automobile Eng 32:189-91 My '42

Libby universal ram type turret lathe. il Mach 48:163-4 My '42; Aviation 41:137 Je '42

Locomotive bolts machined quickly on Gisholt 1L turret lathes. J. E. Carroll. il Am Mach 86:500-1 My 28 '42

Machines to build machines; lathes and planers forerunners of machine tools of today. L. L. Thwing. il diags Tech R 44: 175-7+ F '42

Merritt no.4 turret lathe has automatic chuck, bar feed; master collet takes bushings. il Am Mach 85:1287 D 10 '41

Movie training now available for lathe operators. Sci Am 166:14-15 Ja '42

New equipment. il Iron Age 150:61-4 Ag 20 '42

Norwood hydraulically operated automatic shell-turning lathe. il Mach 48:237 Jl '42

Sparks semi-automatic cylinder turning lathe. il Am Mach 86:1193 O 15 '42

Special chucks for lathe work. J. G. Jergens. diags Am Mach 86:220-1 Mr 19 '42

Special turret lathe tooling speeds up defense production; landing gear struts; Lockheed hydraulic brake co. T. J. Hudson. il diags Mach 48:152-3 Ja '42

Stanley 6⅝-in. centres general purpose lathe. il Engineering 154:167 Ag 28 '42

Turret lathe operation in a submarine plant. il Mach 48:156 F '42

Turret lathe operator's manual. J. R. Longstreet and W. K. Bailey. 240p $2.50 Operators' service bur, Warner & Swasey co, Cleveland '40

Two devices for simplifying lathe work. J. R. Phelps. il diags Ry Mech Eng 116:386-7 S '42

Wickman C.V.A. second-operation bench lathe. il Engineering 153:66 Ja 23 '42

Wide speed range drive for Monarch toolroom lathe. il Mach 48:165 Mr '42

See also
Machine shop practice
Machine tools
Screw machines
Turning

Control

Cross-slide stops speed lathe production. F. C. Hudson. il Am Mach 85:1321-2 D 24 '41

Hydraulic actuation; application to lathe operation; Hydratol lathe. il Automobile Eng 32:186 My '42

Quick-stop device for light lathe. il diag Elec W 117:1024+ Mr 21 '42

Manufacture

Double-end machine for headstocks. il Am Mach 86:878-80 Ag 20 '42

How we doubled production; standardized parts, rearranged equipment, better production control system; Monarch machine tool company. P. A. Abe. il Factory Management 100:50-2+ Ap; 85-8+ My '42

Lodge & Shipley completes fifty years of lathe-building. Mach 49:189 O '42

LATHES—Manufacture—*Continued*

Machine tool maker's dilemma. il Fortune 26:104-7+ O '42

Making machine tools more efficiently; Monarch machine tool co. F. J. Oliver. il Iron Age 149:58-62 Je 18 '42

Turret lathe castings must be perfect; Sterling foundry company for Warner & Swasey co. P. Dwyer. il Foundry 70:58-61+ Ja '42

Temperature effects

Influence of temperature on lathes; compensation for misalignments essential when parts must be finished to close tolerances. G. Schlesinger. diags Am Mach 86:379-81 Ap 30 '42

LATIN AMERICA

ABC of Latin America. F. Henius, ed. 134p $1.50 David McKay co, Washington sq, Philadelphia '42

Busy war week; U.S. tightening of hemisphere economic controls. Business Week p29-30+ My 16 '42

Hemisphere push; Washington initiates long-term projects to strengthen economies of hard-pressed Latin American neighbors. Business Week p34 Mr 21 '42

Hispanic American essays; a memorial to James Alexander Robertson. A. C. Wilgus, ed. 391p bibliog(p18-27) $5 Univ. of North Carolina press, Chapel Hill '42

Latin America. P. E. James. 908p bibliog (p869-86) $6 Lothrop, Lee and Shepard co, New York '42

Latin America; its place in world life. S. G. Inman. rev ed 466p bibliog(p427-49) $3.75 Harcourt '42

Latin American republics; a history. D. G. Munro. 650p bibliog(p619-33) $5 Appleton-Century '42

Latin film fare; motion pictures enlisted in job of selling the U.S.A. to hemisphere neighbors and vice versa. Business Week p20+ Ja 10 '42

Mineral map of Latin America. Eng & Min J 143:supp Ag '42

National planning in selected countries. L. L. Lorwin. 173p U.S. Nat. resources planning board, Washington; pa 40c Supt. of doc. '41

Nazi underground in South America. H. F. Artucio. 311p $3 Farrar '42

South America and hemisphere defense. J. F. Rippy. 101p $1.50 Louisiana state univ. press, Baton Rouge '41

South America, with Mexico and Central America. J. B. Trend. 128p $1 Oxford '42

South American handbook, 1942. [earlier editions not available] H. Davies, ed. 19th ed 696p bibliog(p614-21) $1 Wilson, H.W. '42

Unknown continent; review of Inside Latin America, by J. Gunther. map Economist 142:561-2 Ap 25 '42

See also

Advertising—Latin America
Aeronautics, Commercial—Latin America
Cement industry and trade—Latin America
Credit—Latin America
Cuba
Investments, Foreign (in Latin America)
Mexico
Mines and mineral resources—Latin America
Newspapers—Latin America
Pan American conferences
Pan Americanism
Radio broadcasting—Latin America
Rubber industry and trade—Latin America
Shoe industry and trade—Latin America
South America
World war, 1939—Latin America

Antiquities

Recent archeological research in Latin America. W. D. Strong. Science 95:179-83 F 20 '42

Bibliography

Background readings on Latin America; a reading list for high school students. S. M. Galván, comp. 61p pa 35c Wilson, H.W. '42

Books of Latin American interest in public libraries of the United States. W. C. Haygood and others. 26p pa 50c Am. lib. assn, Chicago '42

Business man looks at Latin America. J. Sabine, comp. (Business literature v 14, no 3) 2p Business branch, Newark public lib, Newark, N.J. N '41

Latin America. R. A. Humphreys, comp. 36p pa 10c Oxford '41

Latin America; list of recent bibliographies. G. H. Fuller, comp. 16p U.S. Lib. of Congress, Division of bibliography, Washington [free to institutions only] '42

Necessary stock items for three important bookstore departments. Publishers' Weekly 141:1644-6 My 2 '42

Our neighbors to the South; an informal list of books on Latin America for diverse interests and tastes. R. M. Gurin. Booklist [ALA] 39:81-93 pt 2 N 1 '42

Preliminary listing of publications dealing with Latin America issued by the agencies of the United States government during the past five years. 27 numb l U.S. Office of the coordinator of inter-American affairs, Washington '41

Selected list of books (in English) on Latin America. (Bibliographic ser. 4) 6th ed rev & enl 69p pa 25c Pan American union, Columbus memorial lib, Washington, D.C. '42

Theses on Pan American topics prepared by candidates for degrees in universities and colleges in the United States. 3d ed rev & enl 170 numb l pa 75c Columbus memorial lib, Pan American union, Washington, D.C. '41

Biography

Builders of Latin America. W. Stewart and H. F. Peterson. 343p $1.68 Harper '42

Commerce

Attitude of U.S. firms toward Latin America is threat to future trade; Export-import bank's transactions. W. L. Pierson. Comm & Fin Chr 154:1333 D 4 '41

Bargaining for Latin America. Business Week p30 Ja 24 '42

Economic front of the western hemisphere during the war and after. V. L. Horoth. il Mag of Wall St 70:323-6 Jl 11 '42

Filling export gap; U.S. Rubber to handle rayon yarn through Latin outlets. Business Week p32+ My 2 '42

Financing U.S. exports under war conditions. W. L. Pierson. For Comm W 9:13+ O 17 '42

Handicraft imports from the other American republics. S. L. Bull. il For Comm W 5:10-11 N 15 '41

Hemispheric trade. (Law and contemporary problems, v. 8, no. 4) p655-804 pa $1 School of law, Duke univ, Durham, N.C. '41

Import trade balance with Latin America for 1941 reverses trend. For Comm W 6:40 Mr 28 '42

Importance of exports to Latin American economies; studies by country. W. LaVarre. il For Comm W 7:3-7+ Ap 11; 3-5 Ap 18 '42

Inter-Latin trade; with old markets cut off by war, hemisphere republics turn to each other. Business Week p50-2 Jl 18 '42

Latin allocations. Business Week p34-5 Ja 24 '42

Latin America and the Export-import bank. W. L. Pierson. For Comm W 5:7+ D 6 '41; Excerpt. Comm & Fin Chr 154:1333 D 4 '41

Latin America as a credit risk. A. O. Stanley. il Dun's R 50:16-19 Jl '42

Latin America as a source of strategic and other essential materials. 397p U.S. Tariff commission, Washington; 50c Supt. of doc. '41

Latin America now trades with itself. R. C. Beyer. il For Comm W 7:3-5+ Je 27 '42

Latin America, the next large industrial market. C. Carroll. Ind Marketing 27:38, 40 Ap '42

Latin-American credit survey; 28th semi-annual report on collections. P. J. Gray. Credit & Fin Management 44:17-18 Ag '42

LATIN AMERICA—Commerce—*Continued*

Latin-American credits continue up-turn; semi-annual survey. K. H. Campbell. Credit & Fin Management 44:19-20 F '42

Latin American foreign trade; a general survey, 1940. 27p Pan American union, Washington, D.C. '42

Latin American handicrafts. il For Comm W 6:8-9 Ja 24 '42

Latin America's depressed foreign trade. Manuf Rec 110:57 D '41

Latin trade fairs; two traveling exhibits organized, one by Peru, one by Macy's. Business Week p68 N 22 '41

Neighborhood trade: hemisphere version. J. C. Rovensky. il Am Inst Banking Bul 24:3-4 Ap '42

Pan American trade, with special reference to fruits and vegetables. J. W. Lloyd. 354p bibliog(p336-8) $2.25 The interstate, Danville, Ill. '42

Pan-Americanism; over-the-counter; R. H. Macy & co.'s Latin American fair. Barron's 22:5 Ja 5 '42

Potential of inter-American economics. C. A. McQueen. map Elec Eng 61:25-30 Ja '42

Proclaimed list of certain blocked nationals. 3d rev ed 230p U.S. Dept. of state, Washington '42

Prosperity returns to Latin America; trade balance reversed by U.S. armament program. F. M. Stern. map Barron's 21:3 N 24 '41

Red tape cut in regulations on exports of petroleum equipment to Latin-American countries. H. D. Ralph. Oil & Gas J 40:75+ D 25 '41

Shipping priorities adopted on goods for Latin America. Oil Paint & Drug Rep 141:3+ My 11 '42

Smoking out enemy business abroad. E. E. Schnellbacher. For Comm W 7:5+ Je 6 '42

Standardization and its effect on Latin American trade. C. T. Brady, jr. Ind Stand 12:293-4 N '41

Treasure hunt in Latin America. F. M. Stern. Bankers M 145:285-90 O '42

Trials and errors; memorandum on our southern front. E. Janeway. Fortune 25:182-5 My '42

U.S. challenges Hitler's new world order. V. L. Horoth. il map Mag of Wall St 69:188-90+ N 29 '41

Who sells to Latin America; graphs. Business Week p45 Ap 25 '42

Women of Americas knit "good neighbor" ties. J. D. Harding. il For Comm W 8:3-5, 33-5 Ag 1 '42

Wood, wind, and sail, the coffee fleet; with table giving ports of call, time and cargo of the sailing fleet. W. C. Taylor. il map For Comm W 7:3-5, 41-2 My 23 '42

Commercial policy

Coffee; volatile brew of cooperation or competition. W. LaVarre. il For Comm W 5:4-6+ N 15 '41

Trade policies of foreign countries during 1941. H. Chalmers. For Comm W 6:8-9, 33-4 Ja 31 '42

Cultural relations

Spain

Relations between Spain and South America. Economist 142:41-2 Ja 10 '42

United States

Books of Latin American interest in public libraries of the United States. W. C. Haygood and others. 26p pa 50c Am. lib. assn, Chicago '42

Center of the problem; cultural relations are vital to victory. R. G. Caldwell. il Tech R 45:19-21+ N '42

Librarian looks at the inter-American program. M. M. Cressaty. Special Lib 32:381-3 D '41

Defenses

See America—Defenses

Economic conditions

Business conditions in Latin America and the West Indies. 34p Royal bank of Canada, Montreal '42

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Good neighbors' progress. il For Comm W 7:27-8 My 16; 34-5 Je 6; 9:10-11 O 3 '42

Importance of exports to Latin American economies; studies by country. W. LaVarre. il For Comm W 7:3-7+ Ap 11; 3-5+ Ap 18 '42

Latin America: credit, economic and exchange conditions, 1942. 51p Foreign banking dept, First nat. bank of Chicago, Chicago '42

Latin America faces new economic problems. Nat City Bank p77-81 Jl '42

Prosperity returns to Latin America; trade balance reversed by U.S. armament program. F. M. Stern. map Barron's 21:3 N 24 '41

South America beckons to U.S. advertisers, why and what and how to advertise, now, in the countries to the south. H. R. Webel. il Ptr Ink 198:18-19+ F 6 '42

South American investments and hemisphere defense. J. F. Rippy. J Business 14:345-55 O '41

U.S. challenges Hitler's new world order. V. L. Horoth. il map Mag of Wall St 69:188-90+ N 29 '41

Economic history

Pan-Americana—past tense; contributions of U.S. citizens to cultural and economic development of Latin America. G. M. Jones. For Comm W 7:6+ Ap 25 '42

Economic policy

Economic nationalism in Latin America. R. F. Behrendt. 22p pa 20c Univ. of New Mexico, Albuquerque '41

Foreign relations

Far East

Trans-Pacific relations of Latin America. A. Bradley. 120p bibliog(p83-108, 114-20) pa $1 Inst. of Pacific relations, New York '42

United States

Building our fences in Latin America. J. A. de Haas. 32p pa 10c Oxford '41

International role of science in time of war and peace. C. P. Coe. Textile Col 64:20 Ja '42

History

History of Latin America. D. R. Moore. rev ed 942p bibliog(p891-928) $5.65; college ed $4.25 Prentice-Hall '42

Bibliography

Books on Latin American history; a study of collections available in colleges and universities of the United States. G. J. Finney. 51p pa 75c Am. lib. assn, Chicago '42

Histories and historians of Hispanic America. A. C. Wilgus. 2d ed 144p bibliog(p113-27) pa $1.75 Wilson, H.W. '42

Industries and resources

American fibers, another material binding the Americas together. S. L. Bull. il For Comm W 6:6-7, 31-2 F 7 '42

Good geologists make good neighbors. W. E. Pratt. Am Assn Pet Geologists Bul 26:1207-13 Jl '42; Same. Oil & Gas J 40:44-5+ Ap 23 '42

Hemisphere aid. Business Week p96-9 S 26 '42

Looking south for supplies. Barron's 22:6 Mr 9 '42

Strategic materials in hemisphere defense. M. S. Hessel, W. J. Murphy and F. A. Hessel. 235p bibliog(p225-35) $2.50 Hastings house, 67 W. 44th st, New York '42

Treasure hunt in Latin America. F. M. Stern. Bankers M 145:285-90 O '42

Intellectual life

Latin America and the enlightenment. A. P. Whitaker, ed. 130p $1.25 Appleton-Century '42

LATIN AMERICA—*Continued*

Officials

See Labor officials—Directories

LATIN AMERICAN literature

See also
Libraries—Latin American collections

LATIN AMERICAN students in the United States

International graduate school exchange. Science 95:570 Je 5 '42

LATIN AMERICAN workers' conference

First congress, Mexico City, Nov. 21-26. Int Labour R 45:211-13 F '42

LATIN AMERICANS in the United States

Latin American in wartime United States. W. R. Crawford. Ann Am Acad 223:123-31 S '42

LAUNCHING

Champagne tradition for christening vessels at launching. Marine Eng 47:142 S '42
Composite launching curves. F. Wilson. Marine Eng 47:112-14 F '42

LAUNDERS

When designing launders; how to eliminate bottom-wear and insure against clogging. W. E. Wilson. bibliog diags Eng & Min J 143:56-7 Ap '42

LAUNDRIES

Bleach shortage in the washroom; abstract. J. W. Chamberlain. Soap & San Chem 18:55-6 My '42
Comparison of the efficiencies of home and commercial laundry processes. E. Lovell, J. Roberts and J. Brodie. bibliog Am Dyestuff Rep 31:301-6+ Je 22 '42
Conserving laundry bleach. J. F. Oesterling. Soap & San Chem 18:59 F '42
Wash room practice. Soap & San Chem 18:55-6 My '42

Accounting

Help for your laundry customers. Bankers Mo 59:115 Mr '42
System of physical cost analysis. R. A. Brandt. 155p $15 J. S. Swift & co, Chicago '40

Equipment

See Laundry equipment

Waste

Chemical treatment of trade waste. F. D. Snell and J. M Fain. plan Ind & Eng Chem 34:970-2 Ag '42
Role of chemicals in industrial waste treatment; canneries, paper mills, beet sugar factories, slaughter-houses, laundries, etc. E. F. Eldridge. il Water Works & Sewerage 89:345 Ag '42
Study of laundry waste treatment; Lawrence experiment station. J. A. McCarthy. Pub Works 73:13-15+ Jl '42
Water for re-use; process perfected for army cleanses laundry waste. Business Week p42+ S 19 '42

LAUNDRY

Chemical engineering in the laundry industry. F. C. Harwood. Chem Age (Lond) 47:73-5 Jl 25 '42; Abstract and discussion. Chem & Ind 61:257 Je 6 '42; Excerpt. Soap & San Chem 18:57 S '42
Comparison of the efficiencies of home and commercial laundry processes. E. Lovell, J. Roberts and J. Brodie. bibliog Am Dyestuff Rep 31:301-6+ Je 22 '42
Lactic acid in textile and laundry work. G. S. Ranshaw. Textile Col 64:356-9 Jl '42
Laundry techniques; short course manual. L. A. Bradley, comp. 226 numb l Extension division, State univ. of Iowa, Iowa City '41
Physical properties of cotton, linen and rayon-mixed fabrics with all-linen and all-rayon fabrics. H. M. Fletcher, M. G. Shelden and C. E. Zink. Rayon 22:735-7; 23:29-30 D '41-Ja '42
Rubbing and bleeding of dyestuffs in printing and dyeing of textiles. Textile Col 64:373-6, 411-12, 424-8, 467-71+ Ag-O '42 (to be cont)
Serviceability of a dish towel fabric; rayon-cotton-linen mixture. M. B. Hays and R. E. Rogers. bibliog Rayon 23:289-90 My '42
Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog(80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42
Washington Palm Beach suits; abstract. Soap & San Chem 18:69 Ag '42
Water softening in the laundry industry. F. C. Harwood. Chem & Ind 60:760-3 O 25 '41

See also
Soap

LAUNDRY equipment

Chemical engineering in the laundry industry; abstract and discussion. F. C. Harwood. Chem & Ind 61:257 Je 6 '42
Laundry produces bleach electrolytically. il Elec W 118:820+ S 5 '42
Steam requirements of process equipment; data sheet. Heating-Piping 14:675 N '42
System of circulating soap in commercial laundries; abstract. D. I. Day. Soap & San Chem 18:55 My '42

See also
Laundry machinery

LAUNDRY laboratories

Dry cleaning, laundering, cotton textiles. C. H. Bayley. il Can Chem & Process Ind 26:47-50 Ja '42

LAUNDRY machinery

Used equipment now under control of WPB. Comm & Fin Chr 156:901 S 10 '42
Within 60 days salesmen were all at work in factory on war jobs; Troy Laundry machinery. il Ptr Ink 200:22+ Ag 21 '42

See also
Pressing machines
Washing machines

LAUNDRY research

Comparison of the efficiencies of home and commercial laundry processes. E. Lovell, J. Roberts and J. Brodie. bibliog Am Dyestuff Rep 31:301-6+ Je 22 '42

LAUNDRY workers

Effect of minimum wage on annual earnings in New York laundries. Monthly Labor R 54:1404-7 Je '42

LAUNDRYOWNERS' national association. See American institute of laundering

LAUREL gneiss. See Pseudomigmatite

LAURIC acid

Coconut oil. map Soap & San Chem 18:21-4+ Mr '42
Seed fat of litsea longifolia Bth. & Hk. R. Child and W. R. N. Nathanael. Am Chem Soc J 64:1079-81 My '42

LAVA

Structural features of the Keewatin volcanic rocks of western Quebec. M. E. Wilson. bibliog diags map Geol Soc Bul 53:53-69, pl 1-5 Ja '42

See also
Volcanoes

LAVATORIES

How to conserve towels and tissue; campaign by Scott paper company. il Factory Management 100:120 My '42
Interior details: recessed lavatory unit in a powder room. il plans Arch Rec 92:60 S '42
Micro-cleanliness in the washroom. C. R. Whittington. il Nat Safety N 44:54+ D '41
Modern facilities for health and safety. il Safety Eng 84:68-71 O '42
Washrooms and lockers. il Nat Safety N 45:161+ Mr '42

LAVENDER, Harrison Morton, 1890-

Sketch. por Explosives Eng 20:68-9 Mr '42

LAVIS, Fred, 1871-

Sketch. por(p50) Civil Eng 12:52 Ja '42

LAVOISIER, Antoine Laurent, 1743-1794

Torch & crucible; the life and death of Antoine Lavoisier. S. J. French. 285p bibliog(p271-5) $3.50 Princeton univ. press '41

LAW

Anglo-American legal system. H. J. Rathbun. 131p pa $1.35 The author, Stanford University, Calif. '41

Brief survey of the law. G. L. Clark. 384p $5 Johnson & Hardin co, Cincinnati '42

How to keep out of trouble. W. S. Weiss. 258p $2 Doubleday '42

Law's letter is not necessarily the law. E. M. Baker. Credit & Fin Management 44:28-9 My '42

Pastor's legal adviser. N. F. Brand and V. M. Ingram. 237p $2 Abingdon-Cokesbury press, New York '42

Popular guide to modern legal principles. F. W. Marshall. 620p $2.95 W. H. Wise & co, New York '42

U.S. Supreme court business law decisions, 1941-1942. 261p pa $1 Commerce clearing house '42

Your legal and business matters and how to take care of them. H. E. Ashmun. 179p $1.75 Day '42

See also

Accounting—Laws and regulations
Administrative law
Advertising—Laws and regulations
Automobile laws and regulations
Banking law
Bankruptcy
Building laws and regulations
Commercial law
Copyright
Corporation law
Damages
Debtor and creditor
Drugs—Laws and legislation
Easements
Food laws and legislation
Fraud
Government regulation of industry
Husband and wife
Income tax
Insecticides—Laws and regulations
Insurance companies —Legal service
Insurance law
Jurisprudence
Labor laws and legislation
Lawyers
Legal aid
Liability
Limitation of actions
Liquor laws
Maritime law
Medical jurisprudence
Mining law
Mortgages
Motor bus lines—Laws and regulations
Municipal government
Municipal liability
Parent and child (law)
Partnership
Patent laws and legislation
Patents
Petroleum laws and regulations
Probate law
Public health laws
Public utilities—Law
Railroad law
Real property
Salesmen—Law
Securities—Law
Social security act, 1935
State laws
Taxation
Trade marks—Law
Trusts, Industrial—Law
Trusts and trustees
Wages—Law
Wills
Workmen's compensation

Bibliography

Catalog for a law library of 15,000 volumes. M. O. Price, comp. 305p School of lib. service, Columbia univ, New York '42

Lawyer's library. S. G. Greenwood. 212p $3 Sam G. Greenwood, Champaign, Ill. '42

Examinations

Attorney junior legal assistant. R. D. Weinberg. pa $1.50 Arco pub. co, 480 Lexington av, New York '42

Indexes

Index to state bar association reports and proceedings. D. A. Dooley, ed. 640p $40 Baker, Voorhis & co, New York '42

Philosophy

Awakening of western legal thought. M. Hamburger. 167p bibliog(p160-7) $3.25 Norton '42

Mysterious science of the law; an essay on Blackstone's Commentaries. D. J. Boorstin. 257p bibliog(p193-238) $3 Harvard univ. press '41

Social control through law. R. Pound. 138p $2 Yale univ. press '42

Sociology of law. G. D. Gurvich. 309p $3.75 Philosophical lib, New York '42

Germany

Threat of Nazi law to all fundamental legal principles. H. Lunau. 11p Foreign & international book co, 110 E. 42d st, New York '42

LAW enforcement

Treasury agents active in law enforcement. Comm & Fin Chr 156:463 Ag 6 '42

LAWN mowers

Mower drive is designed for minimum maintenance. E. Jacobsen. diag Machine Design 14:115-16 Ap '42

LAWRENCE, Ernest Orlando, 1901-

Portrait. Fortune 25:65 Ap '42

LAWRENCE, Kansas

Industries

Industrial history of a midwestern town. K. A. Middleton. 91p bibliog(p90-1) 50c Univ. of Kansas, School of business, Lawrence '41 [Free to residents of state]

LAWRENCE college

Institute of paper chemistry

Plan for research. W. Steele. Am Dyestuff Rep 31:55-6, 75-6 F 2 '42; Abstract. Textile World 91:58-9 D '41

LAWYERS

C.P.L.—the certified probate lawyer. Trusts & Estates 72:582-3 Je '41; Reply. N. W. Baker. 74:274 Mr '42

City lawyer; the autobiography of a law practice. A. G. Hays. 482p $3 Simon & Schuster '42

Organizing the lawyers. Business Week p77 Ap 25 '42

Should appearances before state commissions be restricted? Pub Util 28:834-6 D 18 '41

See also

Insurance companies —Legal service
Trust companies—Lawyers' cooperation

also American bar association

Fees

Limit legal fees; Surrogate's court of New York county acts on collection of seamen's insurance. Weekly Underw 147:131 Jl 18 '42

LAYOUT. See Advertisements—Layout; Airplane factories—Layout; Factories—Layout; Offices—Layout; Retail trade—Store layout; Workplace layout

LAZO, Hector, 1899-

New strategist for independents. por Business Week p44 F 28 '42

LEACHING

Dissolving and leaching as diffusional operations. J. R. Callaham. bibliog diags Chem & Met Eng 49:120-4 My '42

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

See also

Extraction processes

LEAD

Absorption of extensive atmospheric showers of cosmic rays in air and lead. P. Auger and J. Daudin. Phys R 61:91-2 Ja 1 '42

Anodic oxidation of lead; suggested investigation method. Chem Age (Lond) 45:224 O 25 '41

Artificial radioactive isotopes of thallium, lead, and bismuth. K. Fajans and A. F. Voigt. Phys R 60:619-25 N 1 '41

Conservation of lead and its substitution. Metal Prog 41:82-4 Ja '42

Development of leadless glazes containing fluorides. P. M. Corbett and N J. Kreidl. bibliog Cer Ind 39:46, 48+ Ag '42

Easy metal; conservation of lead gets results. Business Week p96-8 Jl 25 '42

Elasticity and creep of Pb single crystals. I. H. Swift and E. P. T. Tyndall. Phys R 61:359-64 Mr 1 '42

Electrical and anomalous scattering of mesotrons. R. P. Shutt. bibliog il diag Phys R 61:6-13 Ja 1 '42

LEAD—*Continued*

Electrochemical behavior of the lead-tin couple in carbonate solutions; abstract. G. Derge, H. Markus and A. Grobe. Iron Age 149:59 F 19 '42

Electrolytic behavior of ferrous and nonferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:60 My 18; 58 My 25 '42

Large scale extraction of polonium from active lead and formation of radioactive electrode alloys. J. H. Dillon and J. N. Street. bibliog il J Ap Phys 13:189-98 Mr '42

Lead from skeet grounds. Business Week p36 Je 6 '42

Lead supplies. Economist 142:441 Mr 28 '42

Multiple secondary effects of the penetrating cosmic radiation at sea level. P. Auger and J. Daudin. diags Phys R 61:549-56 My 1 '42

New lead-screen X-ray technique. H. R. Isenburger. il diag Steel 110:81+ Je 15 '42

Over-all linear expansion of three face-centered cubic metals (Al, Cu, Pb) from —190 degrees cent. to near their melting points. J. W. Richards. diags Am Soc for Metals Trans 30:326-34 bibliog(45 references, p333-4); Discussion. 334-6 Je '42

Passivating lead; abstract. B. N. Kabanov. Chem & Met Eng 49:163 Je '42

Scattering of fast neutrons by lead. H. F. Dunlap and R. N. Little. bibliog diag Phys R 60:693-701 N 15 '41

Studies in superconductivity; evaporated lead films. W. F. Brucksch, jr. and W. T. Ziegler. bibliog Phys R 62:348-53 O 1 '42

Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

Transition curves for electron and photon produced showers. N. Nereson. bibliog diag Phys R 61:111-15 F 1 '42

Use of uranium lead in the assignment of artificial radioactive isotopes. K. Fajans and A. F. Voigt. bibliog Phys R 60:626-7 N 1 '41

Vanishing lead? Business Week p66 N 29 '41

See also
Steel—Lead content

Analysis

Analytical use of sodium rhodizonate. F. Feigl and H. A. Suter. bibliog Ind & Eng Chem Anal ed 14:840-2 O 15 '42

Calcium in calcium-lead alloys. E. E. Schumacher and G. M. Bouton. il diag Metals & Alloys 14:865-7 D '41; Same. Bell System Tech J 20:434-8 O '41

Chemistry of group 1: silver, mercury, lead; summary of results of recent research. A. B. Garrett, M. V. Noble and S. Miller. bibliog J Chem Educ 19:485-9 O '42

Determination by the dropping-mercury-electrode procedure of lead, cadmium, and zinc in samples collected in industrial-hygiene studies. F. L. Feicht, H. H. Schrenk and C. E. Brown. bibliog pls U S Bur Mines Rep of Invest 3639:1-20 '42

Determination of lead content of commercial ciders and vinegars by spectrographic methods. C. W. Schroeder and H. C. Lythgoe. Ind & Eng Chem Anal ed 13:829-30 N 15 '41

Determination of lead in silicate rocks. I. T. Rosenqvist. bibliog Am J Sci 240:356-62 My '42

Determination of lead in sugars and sugar products; an adaptation of the diphenylthiocarbazone reaction. T. D. Gray. bibliog il Ind & Eng Chem Anal ed 14:110-14 F 15 '42

Extraction of metals from aqueous solutions with dithizone lead. L. P. Biefeld and T. M. Patrick. bibliog Ind & Eng Chem Anal ed 14:275-8 Mr 15 '42

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

Rapid method for the microanalysis of lead. L. T. Fairhall and R. G. Keenan. bibliog Am Chem Soc J 63:3076-9 N '41

Rapid polarographic estimation of lead in urine. G. Reed and V. A. Gant. bibliog Ind Med 11:107-9 Mr '42

Rapid spectrographic determination of minute amounts of arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

Separation and determination of lead with salicylaldoxime. W. B. Ligett and L. P. Biefeld. Ind & Eng Chem Anal ed 13:813-15 N 15 '41

Separation of bismuth from lead with ammonium formate. S. Kallmann. bibliog Ind & Eng Chem Anal ed 13:897-900 D 15 '41

Separation of copper, lead, and zinc with salicylaldoxime. L. P. Biefeld and W. B. Ligett. bibliog Ind & Eng Chem Anal ed 14:359-61 Ap 15 '42

Physiological effect

See also
Lead poisoning

Prices

Lead at New York, monthly, 1929-1941; tabulation. Iron Age 149:186 Ja 1 '42

Lead ceiling set. Oil Paint & Drug Rep 141:3+ Ja 19 '42

Premium price plan for copper, lead, and zinc. Eng & Min J 143:63 Mr '42

Rules established for payment for over-quota nonferrous production. Steel 110:44 F 16 '42

Testing

Soil-corrosion studies, 1939: ferrous and nonferrous corrosion-resistant materials. K. H. Logan. J Research Nat Bur Stand 28:398-9 Mr '42

LEAD, Powdered

Lead lubricant combined in a rubber gasket; swing joint for low-pressure steam lines. diag Sci Am 166:66 F '42

LEAD acetates

Absorption of liquids by coal; application of radiographic methods to the problem. G. W. Land. bibliog il Ind & Eng Chem 34:1078-82 S '42

Alkylation of α-naphthoquinones with esters of tetravalent lead. L. F. Fieser and F. C. Chang. bibliog Am Chem Soc J 64:2043-52 S '42

Methylation of aromatic nitro compounds with lead tetraacetate. L. F. Fieser, R. C. Clapp and W. H. Daudt. bibliog Am Chem Soc J 64:2052-60 S '42

Oxidative cleavage of cyclic α-keto alcohols by means of lead tetraacetate. E. Baer. Am Chem Soc J 64:1416-21 Je '42

Plumbic acetate-anhydrous acetic acid solutions. A. W. Davidson, W. C. Lanning and M. M. Zeller. bibliog Am Chem Soc J 64:1523-7 Jl '42

LEAD alloys

Babbitt; lead-base for tin-base. A. H. Levy. Iron Age 150:49-50 N 5 '42

Bearing metals for the new wartime conditions. diag Automotive & Aviation Ind 86:39 Ap 15 '42

Bearings and lubrication; copper-lead bearings. R. J. S. Pigott. il Mech Eng 64:265-8 Ap '42

Calcium in calcium-lead alloys. E. E. Schumacher and G. M. Bouton. il diag Metals & Alloys 14:865-7 D '41; Same. Bell System Tech J 20:434-8 O '41

Experiments with Tube-Loy pipe. R. S. Weston. N E Water Works Assn J 56:174-83 Je '42

Hardening of tellurium-lead alloys. Engineer 172:sup[Metallurgist] 47-8 D 26 '41

Hurbenium, new nontoxic lead alloy coating for iron and steel. A. H. Allen. Steel 111:97-8 S 14 '42

LEAD alloys—*Continued*

Lead alloys to replace tin for engine bearings; abstract. R. Boyer. Am Gas J 157:40 Ag '42

Lead-arsenic bearing metal is making successful test; car motor bearings. F. E. Uhl. il Transit J 86:215-16 Je '42

Lead-base bearing babbitt. il Transit J 86: 291 Ag '42

Lead plating. A. G. Gray and W. Blum. bibliog Electrochem Soc Trans 80 (paper 39): 537-48 O '41

Properties of certain lead-bearing alloys. A. J. Phillips, A. A. Smith, jr. and P. A. Beck. il diag Am Soc T M Proc 41:886-93; Discussion. 894-6 '41

Railway bearing metals; their control and recovery. J. N. Bradley and H. O'Neill. il diag Engineering 154:298-300, 318-20, 339-40 O 9-23 '42; Same cond. Engineer 174:324-6, 347-8 O 16-23 '42

Use high-lead solders and conserve tin; correlated abstract. Steel 110:74-5+ My 18 '42

See also

Steel—Lead content

Type metal

Analysis

Determination of antimony in lead-antimony alloys. L. A. Wooten and C. L. Luke. bibliog Ind & Eng Chem Anal ed 13:771-3 N 15 '41

LEAD arsenate

Analysis

Polarograph reading directly in percentage; analysis of lead arsenate. B. P. Caldwell and S. Reznek. bibliog diag Ind & Eng Chem Anal ed 14:187-9 F 15 '42

LEAD azide

Commercial detonators; manufacture of lead styphnate and lead azide. S. G. Hill. Can Chem & Process Ind 26:18+ Ja '42

LEAD bromide

Thermodynamics of bi-univalent electrolytes; the activity coefficients of lead bromide from 5 to 40°. R. G. Bates. bibliog Am Chem Soc J 64:1136-9 My '42

LEAD carbonates

Study of solubility of two lead salts in dilute solutions with special reference to the lead hazard in drinking water. C. C. Ruchhoft and J. F. Kachmar. Am Water Works Assn J 34:85-93 Ja '42

LEAD chloride

Large scale extraction of polonium from active lead and formation of radioactive electrode alloys. J. H. Dillon and J. N. Street. bibliog il J Ap Phys 13:189-98 Mr '42

LEAD chromate

Electrolytic chrome yellow; abstract. A. G. Arend. Chem & Met Eng 49:170 Jl '42

Studies on aging and coprecipitation; aging of lead chromate in the colloidal state; thermal aging. I. M. Kolthoff and F. T. Eggertsen. J Phys Chem 46:458-63 Ap '42

Studies on aging and coprecipitation; mixed-crystal formation of lead molybdate with colloidal and flocculated lead chromate. I. M. Kolthoff and F. T. Eggertsen. bibliog J Phys Chem 46:616-20 Je '42

X-ray investigation of the structure of lead chromate. S. B. Brody. bibliog J Chem Phys 10:650-2 O '42

LEAD coating

Hurbenium, new nontoxic lead alloy coating for iron and steel. A. H. Allen. Steel 111: 97-8 S 14 '42

Lead and tin undercoats for silver plating. A. Bregman. il Iron Age 149:47-52 Mr 5 '42

Lead coatings; properties, uses. Product Eng 13:41 Ja '42

New lead coating researches which have reached commercial stage. il Steel 111:47-8 O 19 '42

Soil-corrosion studies, 1939; coatings for the protection of metals underground. K. H. Logan. J Research Nat Bur Stand 28:57-71 Ja '42

LEAD compounds

Diazotization of an aminoaryllead compound. H. Gilman and C. G. Stuckwisch. Am Chem Soc J 64:1007-8 Ap '42

Disproportionation of R_6Pb_2 compounds. G. Calingaert, H. Soroos and H. Shapiro. Am Chem Soc J 64:462-3 F '42

See also

Tetraethyl lead

LEAD fluoborate

Lead plating. A. G. Gray and W. Blum. bibliog Electrochem Soc Trans 80 (paper 39): 537-48 O '41; Abstract. Chem & Met Eng 49:199-200 My '42

LEAD fluosilicate

Lead plating. A. G. Gray and W. Blum. bibliog Electrochem Soc Trans 80 (paper 39): 537-48 O '41; Abstract. Chem & Met Eng 49:199-200 My '42

LEAD foil

OPM's order hits lead and tin foil. Mod Packaging 15:42A-42B D '41

Prunes ready to eat; packaged in lead foil. il Mod Packaging 15:78, 80, 82+ Ag '42

LEAD industry and trade

Non-ferrous metals at war. T. E. Lloyd. il Iron Age 149:116-17 Ja 1 '42

Position of lead. F. E. Wormser. il Min Cong J 48:36-9 F '42

Statistics

Lead and zinc ores in the United States; census report. Eng & Min J 142:46 D '41

Lead, 1941. F. E. Wormser. Eng & Min J 143:45+ F '42

Lead output up 9% in 1941. Oil Paint & Drug Rep 142:49 Jl 20 '42

Supply of lead. Survey of Cur Business 22: 10-11 Ja '42

United States

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Earnings in the smelting and refining of nonferrous metals, August 1941. H. Ober and J. Loft. Monthly Labor R 55:129-47 Jl '42

Lead and zinc groups formed to advise WPB. Oil Paint & Drug Rep 142:4+ Jl 27 '42

LEAD metallurgy

All-flotation process for galena; abstract. M. A. Mawby. Chem & Met Eng 49:168 Jl '42

Lead metallurgy, 1941. G. L. Oldright. Eng & Min J 143:85-7 F '42

Making a three-metal separation at the Duquesne group; Callahan Zinc-Lead's flotation plant. J. B. Huttl. flowsheet il Eng & Min J 142:56-8 N '41

Metallurgy of lead, 1941. R. G. Bowman. il Min & Met 23:77-9 F '42

LEAD mines and mining

Bureau of mines develops instruments to aid in reclaiming zinc, lead ores. R. R. Sayers. Steel 111:38 Jl 27 '42

Colorado

Revived Rico mines aid war effort. A. S. Park. il Comp Air M 47:6782-6 Jl '42

Kansas-Oklahoma-Missouri district

Determining pressure zones in mine pillars. il Min Cong J 28:36-7 Ag '42; Excerpts. Can Min J 63:672 O '42

Spain

Mining lead ore in Spain. F. W. Cannaday. Eng & Min J 143:49-52 O '42

United States

Lead and zinc ores in the United States; census report. Eng & Min J 142:46 D '41

LEAD molybdate

Studies on aging and coprecipitation; mixed-crystal formation of lead molybdate with colloidal and flocculated lead chromate. I. M. Kolthoff and F. T. Eggertsen. bibliog J Phys Chem 46:616-20 Je '42

LEAD ores

Genesis of some ore deposits of southeastern Maine. C. Li. maps Geol Soc Bul 53:15-51 bibliog(p46-7) pl 1-5 Ja '42

See also
Galena

LEAD oxalate

Solubility of lead sulfate and of lead oxalate in various media. I. M. Kolthoff, R. W. Perlich and D. Weiblen. bibliog J Phys Chem 46:561-70 My '42

LEAD oxides

Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42

Heat capacities of red and yellow lead monoxides at high temperatures. H. M. Spencer and W. M. Spicer. bibliog diags Am Chem Soc J 64:617-21 Mr '42

Lead and zinc pigments, 1941. Chem & Met Eng 49:103-4 F '42

Studies of lead oxides; the effect of grinding on the X-ray diffraction patterns of mixtures containing lead oxides. G. L. Clark and S. F. Kern. Am Chem Soc J 64:1637-41 Jl '42

X-ray studies of storage battery pastes. J. N. Mrgudich. il diag Electrochem Soc Trans 81 (preprint 1):1-9 Ap '42

LEAD plating

Lead plating. A. G. Gray and W. Blum. bibliog Electrochem Soc Trans 80 (paper 39): 537-48 O '41; Abstract. Chem & Met Eng 49:199-200 My '42

Sulfamate lead plating; abstract. E. W. Schweikher. Iron Age 150:69 Jl 2 '42

LEAD poisoning

Control of a lead hazard. J. B. Littlefield. Ind Med 11:504-6 O '42

Effect of calcium and phosphorus on the metabolism of lead. J. B. Shields and H. H. Mitchell. J Ind Hygiene 24:sup55 Mr '42

Evaluation of the lead hazard in the decorating department of a glass plant; relation of urinary and atmospheric lead determinations. C. A. Smucker and J. B. Kistler. J Ind Hygiene 24:1-4 Ja '42

Experiments with Tube-Loy pipe. R. S. Weston. N E Water Works Assn J 56:174-83 Je '42

Lead exposures in the printing industry in Virginia. R. T. Homewood and H. J. Worsham. Ind Med 11:186-8 Ap '42

Lead poisoning held accidental injury; Supreme court of Oklahoma decision. Monthly Labor R 54:129 Ja '42

Lead poisoning resulting from inhalation of vaporized lead paint discharged by spray gun held accidental injury. Weekly Underw 145:1165 N 15 '41

Milestones in industrial medicine; acts and laws of His Majesty's Province of the Massachusetts-Bay in New-England. A. H. Whittaker. il Ind Med 10:532-5 D '41

Preventing heavy metal poisoning in industrial operations. W. M. Pierce. bibliog il Chem & Met Eng 49:141-3 S '42

LEAD styphnate

Commercial detonators; manufacture of lead styphnate and lead azide. S. G. Hill. Can Chem & Process Ind 26:18+ Ja '42; Abstract. Chem & Met Eng 49:152-3 Je '42

LEAD sulfate

Lead and zinc pigments, 1941. Chem & Met Eng 49:103-4 F '42

Solubility of lead sulfate and of lead oxalate in various media. I. M. Kolthoff, R. W. Perlich and D. Weiblen. bibliog J Phys Chem 46:561-70 My '42

Spectrographic studies of coprecipitation; fourth-period elements with barium sulfate, and copper and zinc with lead sulfate. L. Waldbauer, F. W. Rolf and H. A. Frediani. bibliog Ind & Eng Chem Anal ed 13:888-9 D 15 '41

Study of solubility of two lead salts in dilute solutions with special reference to the lead hazard in drinking water. C. C. Ruchhoft and J. F. Kachmar. Am Water Works Assn J 34:85-93 Ja '42

X-ray studies of storage battery pastes. J. N. Mrgudich. il diag Electrochem Soc Trans 81 (preprint 1):1-9 Ap '42

LEAD sulfide

Bender lead sulfide treating process proves economical. L. Eaby. bibliog il diag Oil & Gas J 40:25-7 Ja 22 '42

See also
Galena

LEAD tetraacetate. See Lead acetates

LEAD tetraethyl. See Tetraethyl lead

LEAD work

Welding of lead. R. Dick. il Dom Eng 160: 42-4+ Ag '42

LEADERSHIP

Merchant marine on the alert for safety; human failure in leadership and in the chain of command. E. C. Holden, jr. Weekly Underw 146:484-6 F 28 '42

Pattern for leadership. Business Week p99 S 19 '42

Training for leadership in distributive education. K. B. Haas. J Retailing 18:26-31 F '42

LEADSCREWS

Automatic control of boring mills obtained by accurately cut screws; Selsyn thyratron and amplidyne apparatus. R. Hillner and K. K. Bowman. il diags Mach 48:138-42 D '41

LEADVILLE, Colorado

Leadville's comeback. Business Week p22 Ag 22 '42

LEAGUE of nations

Administrative problems of international organization. F. P. Walters. 20p pa 1s Oxford '41

Greatest man in Canada; an appreciation of editor of Winnipeg Free press; advocate of League of nations. B. Hutchison. il Fortune 25:106-11, 114, 116+ Je '42

League of nations and raw materials, 1919-1939. K. W. Kapp. (Geneva studies v. 12 no. 3) 64p pa 40c Columbia univ. press '41

Lost peace; a personal impression. H. Butler. 246p $2.75 Harcourt '42; Review. Int Labour R 45:408-13 Ap '42

Organization of peace. F. C. Nájera. Ann Am Acad 222:60-73 Jl '42

Postwar political organization of the world. C. J. Hambro. Ann Am Acad 222:109-16 Jl '42

World organization, 1920-1940; the technical and non-political activities of the League of nations, the Permanent court of international justice, and the International labor organization described with particular reference to the future. 39p Secretary, Inst. for advanced study, Princeton, N.J. '41

World's destiny and the United States; a conference of experts in international relations. 309p pa 50c World citizens assn, 84-86 E. Randolph st, Chicago '41

Covenant

Article XIX of the covenant of the League of nations; a study in the problem of international government. P. B. Potter. 98p bibliog(p97-8) pa 40c Columbia univ. press '41

Loans

League loans in default. Comm & Fin Chr 155:1639 Ap 23 '42

Statistical work

Statistical work of the League of nations in economic, financial and related fields. C. K. Nichols. Am Statis Assn J 37:336-42 S '42

LEAHY, William D. 1875-

Aide to FDR. Comm & Fin Chr 156:276 Jl 23 '42

Portrait. Business Week p7 Jl 25 '42

Resigns as ambassador; now chief of staff to the President. Comm & Fin Chr 156: 468 Ag 6 '42

LEARNED institutions and societies

Handbook of scientific and technical societies and institutions of the United States and Canada; United States section, comp. by C. Hull and M. Paddock; Canadian section, comp. by S. J. Cook and P. A. Howard. (Bul. 106) 4th ed 389p $4 National research council '42

See also

Scientific societies

Technical societies

Directories

American agencies interested in international affairs. R. Savord. 200p $2 Council on foreign relations, 45 E. 65th st, New York '42

LEARNING, Psychology of

Development and learning; the psychology of childhood and youth in a democratic society. W. F. Bruce and F. S. Freeman. 552p $2.75 Houghton '42

Effects of praise and blame as incentives to learning. H. O. Schmidt. 56p bibliog(p53-6) pa $1 Am. psychological assn, Northwestern univ, Evanston, Ill. '42

Forty-first yearbook of the National society for the study of education; pt. 2, The psychology of learning. N. B. Henry, ed. 502p $3.25; pa $2.50 Public school pub co, Bloomington, Ill. '42

Instructor's responsibilities in the learning process. B. V. Moore. J Eng Educ 32:812-18 Je '42

Psychology of human learning; an introduction. J. A. McGeoch. 633p $4 Longmans '42

Rest pauses in motor learning as related to Snoddy's hypothesis of mental growth. H. M. Bell. 38p bibliog(p37-8) pa 95c Am. psychological assn, Northwestern univ, Evanston, Ill. '42

Retroactive inhibition; a review of the literature. E. J. Swenson. 59p bibliog(p57-9) pa $1 Univ. of Minnesota press, Minneapolis '41

LEASES

Effect of government restrictions on leases. A. M. Riggs. Trusts & Estates 75:323-5 S '42

LEAST motion, Principle of

Decomposition of cyclohexene oxide and 1,4-cyclohexadiene from the standpoint of the principle of least motion. F. O. Rice and A. L. Stallbaumer. Am Chem Soc J 64:1527-30 Jl '42

LEAST squares

Approximate solution of Schrödinger equations by a least squares method. A. A. Frost. J Chem Phys 10:240-5 Ap '42

Fitting the exponential function and the Gompertz function by the method of least squares. P. M. Stoner. Am Statis Assn J 36:515-18 D '41

LEAST work, Principle of

Solving a frame of multiple redundancy by method of least work. W. H. M. Laughlin. diags Civil Eng 12:394-5 Jl '42; Discussion. 12:573 O '42

LEATHER

Care of leather shoes. Consumers' Research Bul 9:25-6 My '42

Leather. K. E. Bell. il map J Chem Educ 19:340-3 Jl '42

200 ways to make leather belts & packings last longer. F. A. Annett. il diags Power 86:466-71 Jl '42

See also

Baggage

Belting

Hides and skins

Shark leather

Shoes

Tanning

also American leather chemists association

Cleaning

Saddle soaps. P. I. Smith. il Soap & San Chem 18:30-1+ Je '42

Dictionaries

Shoe and leather lexicon. A. D. Anderson, comp. 11th rev ed 108p 50c Boot & shoe recorder pub. co, 100 E. 42d st, New York '41

Manufacture

Colonial tanning company air conditions warehouse to prevent damage to patent leather. il Heat & Ven 39:52-4 Ja '42

Leather production; conversion from oil-engine to electric driving. il Elec R (Lond) 130:195-8 F 13 '42

See also

Tanneries

Tanning materials

Prices

New OPA order. For Comm W 7:23-4 Ap 25 '42

Testing

Accelerated aging of lace leathers. J. R. Kanagy and P. E. Tobias. J Research Nat Bur Stand 29:51-6 Jl '42

LEATHER, Artificial

Replacements for latex in fiber products manufacture. R. T. Nazzaro. India Rubber W 106:345-6+ Jl '42

LEATHER, Substitutes for

Substitutes for shoe leather. M. Estabrook. Science 96:sup9-10 Ag 21 '42

LEATHER industry and trade

Leather footwear outlook through 1943. J. G. Schnitzer. Survey of Cur Business 22:7-12 S '42

News by commodities. Published in Foreign commerce weekly

See also

Hides and skins

Shoe industry and trade

Tanners' council of America

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 22:19 My '42

Taxation

Tanners get some tax relief. Barron's 22:12 O 26 '42

Great Britain

General conditions in United Kingdom's leather industry. For Comm W 9:27-8 O 31 '42

Leather in the war. Economist 142:198-9 F 7 '42

India

News by commodities (cont). For Comm W 5:35 N 15 '41

Paraguay

Hides and skins; Paraguay's trade during 1941. For Comm W 8:21 S 19 '42

Turkey

Activity in the leather and leather-products trade in 1941. For Comm W 5:26-7 D 20 '41

United States

Business behavior, 1919-1922. W. F. Payne. bibliog J Business 15:sup55-81 Jl-O '42

Supply and demand; abstract. I. R. Glass. Oil Paint & Drug Rep 142:37 O 19 '42

LEATHER research

Meeting of British section of the International society of leather trades chemists, London, June 5-6. Can Chem & Process Ind 26:341+ Jl '42

LEATHER work

Applied leathercraft. C. H. Groneman. 210p bibliog(p182-3) $2.50 Manual arts press '42

LEATHER workers

Potential health hazards of the leather industry. W. J. McConnell, J. W. Fehnel and J. J. Ferry. J Ind Hygiene 24:93-108 My '42

LEAVES

Autumn colors. F. Thone. Science 96:sup8+ O 9 '42

Direct use of leaf protein in human nutrition. N. W. Pirie. bibliog Chem & Ind 61:45-8 Ja 24 '42

Green leaves as a source of protein and other nutrients; abstract. A. C. Chibnall and others. Chem & Ind 61:112-13 F 28 '42

Lipid fraction of lucerne leaf. H. S. Jefferies. Chem & Ind 61:324-5 Jl 25 '42

LEAVES, Fossil

Study of arborescent lycopod leaves associated with lepidodendron selaginoides Sternberg stems in Iowa coal balls. L. R. Wilson and I. Tillapaugh. diags Am J Sci 240:394-402 Je '42

LEBANON

Statement concerning Syria and Lebanon issued by the Department of state. For Comm W 5:33 D 20 '41

LEBLOND machine tool company

LeBlond's second war-time distinction; Army-Navy E award. il Steel 111:85 S 14 '42

LECITHIN

Use of soya lecithin will save scarce fats. J. Stanley. bibliog Food Ind 14:69-71 Jl '42

LE CREUSOT. See Creusot, France

LECTURE method

Students' lecture notes. H. Necheles. Science 96:297 S 25 '42

LECTURES and lecturing

Accustomed as I am. J. M. Brown. 201p $2 Norton '42

Illustrating the technical lecture. E. S. Tompkins. Engineering 153:474-5, 495 Je 12-19 '42

Typescript for lantern slides used in illustrating the technical lecture. H. E. Dance. il Engineering 154:15 Jl 3 '42

LEDLOY

Lead-bearing steels. Automobile Eng Extra no 31:386-8 N 6 '41

New standard steels; samples analysed. Chem Age (Lond) 47:112 Ag 1 '42

LEE rubber and tire corporation

Annual report. Comm & Fin Chr 155:191 Ja 13 '42

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 1 '41

Outstanding stocks for income and profit. Mag of Wall St 70:441-2 Ag 8 '42

Special situations for income and appreciation. H. F. Travis. Mag of Wall St 71:31 O 17 '42

Stocks in a strong earnings position for 1942. Mag of Wall St 70:142 My 16 '42

LEEDS, England

Water supply

Sorocold's waterworks at Leeds, 1694. F. Williamson and W. B. Crump. bibliog map Engineer 172:352, 372-3 N 21-28 '41

LEGAL advertising

Notice by newspaper publication in Louisiana, a digest of laws. B. F. Denbo, comp. 60p $2.50 Louisiana state univ. press, Baton Rouge '42

LEGAL aid

New social service; furnishing information, advice, and legal opinion. Economist 143:5-6 Jl 4 '42

LEGAL forms. See Forms (law)

LEGAL photography. See Photography, Legal

LEGAL responsibility

See also
Liability

LEGAL service

See also
Insurance companies
—Legal service

LÉGER, Fernand, 1881-

Twelve artists in U.S. exile. Fortune 24:104 D '41

LEGERDEMAIN. See Conjuring

LEGISLATION

See also
Law
State laws

LEGISLATIVE bodies

Limits of legislative delegation. J. Hart. bibliog Ann Am Acad 221:87-100 My '42

See also
State legislatures

LEGISLATURES, State. See State legislatures

LEGUMES

Economic importance of the legume plants of the Southwest and Mexico. C. D. Mell. Textile Col 64:332-3 Jl '42

LEHIGH university

New curriculum in electrical engineering at Lehigh university. L. V. Bewley. J Eng Educ 32:434-51 Ja '42

Seventy-five years of chemistry at Lehigh university. R. D. Billinger. il J Chem Educ 19:82-5 F '42

LEHIGH Valley railroad

Continued uncertainty. A. Jansen. Barron's 22:19 F 2 '42

LEHMAN corporation

Asset value at $26.74. Comm & Fin Chr 155:157-8 Ja 10 '42

Asset value $24.74 per share; nine months report. Comm & Fin Chr 155:1513 Ap 13 '42

Earnings for years ended June 30, 1939-1942. Comm & Fin Chr 156:163 Jl 13 '42

Reports higher asset value. Comm & Fin Chr 156:1329 O 12 '42

LEHRS. See Glass furnaces

LEISURE

See also
Recreation

LEMON grass

Experiment pays; five-year-old planting of lemon grass, yielding essential perfume oil. il Business Week p58 Mr 28 '42

LEMON peel

Isolation of a new oxidation-reduction enzyme from lemon peel (vitamin P). C. Z. Wawra and J. L. Webb. bibliog Science 96:302-3 S 25 '42

Analysis

Determination of certain quercetinlike substances using a Klett-Summerson photoelectric colorimeter. C. W. Wilson, L. S. Weatherby and W. Z. Bock. Ind & Eng Chem Anal ed 14:425-6 My 15 '42

LEND-lease operations. See World war, 1939—United States—Lend-lease operations

LENGTH measurement

Conversion tables for lengths. C. Hering. Metal Prog 42:522V O '42

Measuring the length of drilled core specimens. L. W. Teller. Concrete 50:33-5 O '42

LENO weaving. See Weaving

LENSES

Binda patent gives plastic lenses a tough glass surface. diag Glass Ind 23:309 Ag '42

Converting for Uncle Sam; Allied plastics company gas-mask lenses. E. F. Lougee. il Mod Plastics 19:58-9+ Jl '42

Development and testing of new glass at American optical company. il Glass Ind 23:140-2 Ap '42

Develops Burt-weld lens for aluminum welders. Steel 111:109 Ag 17 '42

Eye protection for arc welders; metallic films on lenses. J. A. Neuman. Iron Age 149:56 Ap 2 '42

Harmonic vibration breaking point of glass. E. L. Hettinger. il Glass Ind 23:20-2 Ja '42

Lens grinding machines. il R Sci Instr 12:556-7 N '41

New lenses eliminate glare in welding aluminum. il Iron Age 150:62C Jl 30 '42

New type of variable focus lens. il diags J Ap Phys 13:481-2 Ag '42

Night vision goggles. il Mod Plastics 19:55 Je '42

Optical unit for obtaining variable magnification in ophthalmic use. K. N. Ogle. il diags Opt Soc Am J 32:143-6 Mr '42

Plastic lenses. Business Week p61-2 S 26 '42

Protection for welding operators. B. C. Tracey. il Iron Age 149:67-8 Mr 26 '42

See also
Goggles
Optical instruments
Spectacles
Telescope

LENSES, Contact

Contact lenses. T. E. Obrig. 470p bibliog (p452-8) $5.50 Obrig laboratories, 7 E. 48th st, New York '42

LENSES, Photographic

Anti-reflection coatings for amateur lenses. M. A. Durand. Am Phot 36:28 N '42

Buying a used lens intelligently. K. Schadlich. diag Am Phot 36:41 Ag '42

Characteristics of wide-angle airplane-camera lenses. F. E. Washer. diags J Research Nat Bur Stand 29:233-46 S '42

Color correction of lenses. M. I. Schwalbe. Am Phot 36:12-13 N '42

Image sharpness. J. Deschin. il Sci Am 165: 352-3 D '41

Lenses for aerial photography. R. Kingslake. bibliog diags Opt Soc Am J 32:129-34 Mr '42

New Deflaro lenses. C. E. Barnes. il Am Phot 36:26-8 N '42

Performance of optical instruments with coated lens systems. J. E. Tyler, R. S. Morse and F. B. Jewett, jr. diag Opt Soc Am J 32:211-13 Ap '42

LEPIDINE

Nitration of lepidine and 2-chlorolepidine. S. E. Krahler and A. Burger. bibliog Am Chem Soc J 64:2417-19 O '42

Syntheses in the quinoline series; some derivatives of 4-methylquinoline and a study of their structures. O. H. Johnson and C. S. Hamilton. bibliog Am Chem Soc J 63:2864-7 N '41

LEPIDODENDRON selaginoides Sternberg

Study of arborescent lycopod leaves associated with lepidodendron selaginoides Sternberg stems in Iowa coal balls. L. R. Wilson and I. Tillapaugh. diags Am J Sci 240:394-402 Je '42

LEPIDOLITE

Lithium chloride from lepidolite. G. O. G. Löf and W. K. Lewis. bibliog diags Ind & Eng Chem 34:209-16 F '42

Use of the photronic cell and spectrophotometer for measuring translucency of whiteware. F. C. Arrance. il diags Am Cer Soc J 25:116-22 F 15 '42

Analysis

Blank and background effect on photographed spectral lines. L. W. Strock. bibliog Opt Soc Am J 32:103-11 F '42

LEPIDYLAMINE

Antiplasmodial action and chemical constitution; compounds related to lepidylamine. T. S. Work. Chem Soc J p426-9 Jl '42

LEPROSY

Diphtheria toxoid treatment of leprosy. G. H. Faget and F. A. Johansen. Pub Health Rep 57:249-53 F 20 '42

Leprosy. L. Rogers and E. Muir. 2d ed rev 260p $4.50 Williams & Wilkins '40

Story of the National leprosarium (U.S. marine hospital), Carville. La. G. H. Faget. Pub Health Rep 57:641-52, pl 1-2 My 1 '42

LEPTOSCOPE

Method for investigating the thickness, chemical properties, and surface structure of thin biological objects. D. F. Waugh. bibliog il diag Opt Soc Am J 32:495-502 S '42

LEPTOSPERMUM citratum

Tea-tree oils. E. S. Guenther. Soap & San Chem 18:26-7 S '42

LEPTOSPIRA icterohemorrhagiae. See Weil's disease

LESS-than-carload freight. See Freight car service—Car load

LETHANE

Pyrethrum analysis; the effect of certain aliphatic thiocyanates in the determination of pyrethrin I in mineral oil extracts by the mercury reduction method. J. J. T. Graham. Soap & San Chem 18:101+ Ap '42

LETTERING

Alphabet and elements of lettering. F. W. Goudy. rev & enl ed 101p $6 Univ. of California press, Berkeley '42

Design of sign letter sizes. A. Mitchell and T. W. Forbes. diags Am Soc C E Proc 68:95-104 Ja '42; Discussion. 68:839-40, 1073-4 My-Je '42

Hand lettering tells a story for advertisers. C. N. Allen. il Ptr Ink 198:16-17 F 27 '42

Lettering of today. W. B. Hunt and E. C. Hunt. rev ed 80p $1 Bruce pub. '41

Speedball text book; lettering, poster design for pen and brush. R. F. George. 14th ed 88p pa 50c C. Howard Hunt pen co, Camden. N.J. '41

LETTERS, Business. See Commercial correspondence; Sales letters

LETTERS, Collection. See Collecting of accounts

LETTERS of credit

Letters of credit as independent contracts. C. R. Rosenberg, jr. Burroughs Clearing House 27:44 O '42

Letters of credit in wartime. S. Stern. Banking 35:23 O '42

Special letter of credit. C. R. Rosenberg, jr. Burroughs Clearing House 27:29+ O '42

LEUCEMIA

Spontaneous and experimental leukemia in animals. J. Engelbreth-Holm. 245p Oliver and Boyd, London WC 1 '42; Review by J. Furth. Science 96:136-8 Ag 7 '42

LEUCOCYTES

Physiological fatigue from exposure to hot environments. M. B. Ferderber, F. C. Houghten and W. L. Fleisher. bibliog Heating-Piping 14:139-42 F '42

LEUCOISONAPHTHAZARIN

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

Condensation of β-cyclogeraniol with leucoisonaphthazarin. M. D. Gates and F. Misani. Am Chem Soc J 64:1979-80 Ag '42

LEUCONOSTOC mesenteroides

Studies on reactions relating to carbohydrates and polysaccharides; structure of the dextran synthesized by the action of leuconostoc mesenteroides on sucrose. I. Levi. W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 64:1959-62 Ag '42

LEUCOPENIA

Prevention and treatment of agranulocytosis and leukopenia in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. S. S. Spicer and others. bibliog Pub Health Rep 57:1559-66 O 16 '42

LEVEES

Drainage of leveed areas in mountainous valleys. G. R. Williams. Am Soc C E Proc 68:3-16 Ja '42; Discussion. 68:143-4, 612-14, 827-36, 1009-12, 1619-22 Ja, Ap-Je, N '42

LEVELING

Spirit leveling in Michigan, 1896-1938. J. G. Staack. map U S Geol S Bul 919:1-523, pl 1-2; pa 65c Supt. of doc. '41

See also

Surveying

LEVER brothers company

Study of Geoffrey Heyworth. L. Cotton. Soap & San Chem 18:28-9+ My '42

Suds make news; latest legal clash of Lever and P.&G. Business Week p62-3 Je 20 '42

LEVINE, Samuel

War hysteria in Canada; case of Dr Samuel Levine. H. Grundfest. Science 94:461-2 N 14 '41; Reply. E. F. Burton. 95:97-8 Ja 23 '42

LEVOGLUCOSAN

Influence of lyotropic substances on the specific rotation of β-levoglucosan. J. R. Katz and J. Seiberlich. J Phys Chem 46: 640-1 Je '42

LEVULINIC acid

Bibliography

Levulinic acid; a literature reference. 38p A. E. Staley mfg. co, Decatur, Ill. '41

LEWIS, Floyd Albert, 1903-

Acting editor of Electric Engineering. por Elec Eng 61:574 N '42

LEWIS, John Llewellyn, 1880-

C.I.O. schism. por Business Week p14 Je 6 '42

Lewis takes walk. Business Week p87-8 O 17 '42

Meany deal; Lewis's bid for unity seen as scheme to scuttle Murray and Hillman. Business Week p15-16 Ja 24 '42

LEWIS, Sir Thomas, 1881-
Award of the Copley medal of the Royal society. Science 95:92-3 Ja 23 '42

LEWISITE
Effects of Lewisite and mustard warfare gases; abstract. G. L. McCoy. Chem & Met Eng 49:186 My '42
War gas identification sets. F. C. Hickey and J. J. Hanley. J Chem Educ 19:361-2 Ag '42

LEXINGTON water power company
First mortgage 5s, 1968. Comm & Fin Chr 156:618 Ag 20 '42

LIABILITY
British writer studies black-out liability. Spectator (Property ed) 7:9 Je 25 '42
Defective service line; explosion liability of gas company. L. Childs. Am Gas J 156: 27-8 F '42
Directors' indemnity; corporate policy or public policy? G. E. Bates and E. M. Zuckert. Harvard Business R 20 no2:244-64 [Ja] '42; Abstract. Management R 31:141-2 Ap '42
Hero Smith on Father's day; liability and defense of department stores in negligence cases. H. S. Moser. Nat Underw 46:17+ Ag 27 '42
Hotelkeeper's liability distinguished from landlord's liability; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8: 26-8 Jl 23 '42
Law of overflow; abstract. L. T. Parker. Am Water Works Assn J 34:1275-6 Ag '42
Law on liability for property damage caused by fire. F. W. Davies. East Underw 43:22 S 4 '42
Liability for repaired goods. Elec R (Lond) 131:182 Ag 7 '42
Liability of individuals and municipalities regarding blackout accidents; English experience. E. C. Stiefel. Weekly Underw 146:1151+ My 23 '42
Liability of private home owner; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:28-9+ O 15 '42
Liability of property owner to public officers; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:22-4 Jl 9 '42
Liability under blackouts; symposium at American transit claims association meeting. Mass Transportation 38:304-5 O '42

See also
Damages
Employers' liability
Insurance, Liability
Manufacturers' liability
Municipal liability
Negligence
State liability
Workmen's compensation

LIABILITY (term)
Terminology of the balance-sheet. A. C. Kelley. J Account 72:510-13 D '41

LIABILITY, Municipal. See Municipal liability

LIABILITY insurance. See Insurance, Liability

LIBBEY-OWENS-FORD glass company
Annual report. Comm & Fin Chr 155:1214-15 Mr 23 '42
Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 8 '41

LIBBY, McNeill and Libby
Annual report. Comm & Fin Chr 155:1513-14 Ap 13 '42

LIBERALISM
Whose revolution? a study of the future course of liberalism in the United States. I. D. Talmadge, ed. 296p $2.50 Howell, Soskin, New York '41

See also
Democracy

LIBERIA
Liberia and the United States. Economist 143:513-14 O 24 '42

Commerce

Imports and exports, 1941. For Comm W 8: 21 S 12 '42

Economic history

Economic history of Liberia. G. W. Brown. 366p bibliog(p310-23) $3 Associated publishers, Washington, D.C. '41

LIBERTY, New York

Sewerage

First year of operation of the Liberty biofilter plant. J. Lawrence and H. Eichenauer. plan Pub Works 72:14-15+ D '41
Operating results of the biofilter plant for the summer of 1942. il Pub Works 73:23-4 O '42

LIBERTY
American destiny. A. P. Davies. 120p $1.50 Beacon press, 25 Beacon st, Boston '42
American rights, civil and political. D. Hutchison and R. T. Hill. 84p pa 30c American viewpoint soc, 883 Broadway, Albany, N.Y. '41
Anti-dictator. E. de la Boétie. 54p $1 Columbia univ. press '42
Democracy, liberty, and property; readings in the American political tradition. F. W. Coker, ed. 881p $4.25 Macmillan '42
Fair play; an introduction to race and group relations. H. N. MacCracken and C. G. Post. 43p bibliog(p43) pa 20c Charles Gordon Post, Vassar college, Poughkeepsie, N.Y. '42
Flickering torch; an appraisal of what we call freedom. W. W. Tomlinson. 132p $1.50 Putnam '42
Fountainheads of freedom; the growth of the democratic idea. I. Edman and H. W. Schneider. 576p $3.75 Reynal & Hitchcock, New York '41
New objectives. Advanced Management 7:50 Ap-Je '42
Our Bill of rights—1941. A. V. Keliher. Special Lib 33:21-2 Ja '42
Our economic freedom. J. M. Clark. Ann Am Acad 220:178-85 Mr '42
Our heritage of liberty; its origin, its achievement, its crisis. S. Leacock. 86p $1.25 Dodd '42
Political scientist and world problems. D. W. Brogan. Ann Am Acad 222:13-20 Jl '42
Presidency; its tradition is leadership in freedom; will Franklin Roosevelt preserve that tradition? il Fortune 25:37-41+ Ja '42
Symbols of national solidarity; four freedoms. H. F. Gosnell. bibliog Ann Am Acad 223: 157-61 S '42
Thus be it ever; a heritage of freedom. C. A. Molendyk and B. C. Edwards, eds. 474p $2 Harper '42
Warns U.S. is again facing terrible danger; Armistice day address. F. D. Roosevelt. Comm & Fin Chr 154:1227 N 27 '41
What is freedom? for the individual, for society? D. L. Bolinger. 30p 50c Cooperative books, Norman, Okla. '41

See also
Democracy
Free speech
Freedom of the press
Religious liberty

LIBERTY, Statue of. See Statue of Liberty

LIBERTY aircraft products corporation
Financial analysis. Comm & Fin Chr 156:92 Jl 9 '42

LIBERTY bell
Liberty bell in vault. Comm & Fin Chr 155: 772 F 19 '42
North America to defray cost of bomb-shelter for Liberty bell. East Underw 43:21 Ja 30 '42
Philadelphia accepts vaults from North America for Liberty bell. il East Underw 43:18 F 6 '42

LIBRARIANS

See also
Library service

Salaries

Salaries of library employees, 1941. Monthly Labor R 55:356-60 Ag '42

LIBRARIANS, Special
Employment opportunities for special librarians. H. O. Oille. Special Lib 33:45-9 F '42
Inspiring message; President Roosevelt's message to Special libraries association. Special Lib 33:217 Jl-Ag '42

LIBRARIANS, Special—*Continued*

Librarian's responsibility. R. L. Vormelker. Special Lib 33:281-3 O '42

Directories

Directory of the Science-technology group of the Special libraries association. R. Hanlon and E. Portman, comps. 50p pa 75c; to members 35c Special lib. assn, Science-technology group, New York '40

Handbook, supplement to Special libraries; membership list, committees, constitution and by-laws, general information. Special Lib 33:1-78 pt 2 F '42

Training

S.L.A. local institutes; an experiment in training. Special Lib 33:56 F '42

LIBRARIES

Guide to libraries and archives in Central America and the West Indies, Panama, Bermuda, and British Guiana. A. E. Gropp. 721p bibliog(p685-704) pa $5 Middle American research inst, Tulane univ. of Louisiana, New Orleans '41

Philadelphia libraries; a survey of facilities, needs and opportunities. 95p, 46p $3.50 Univ. of Pennsylvania press, Philadelphia '42

See also

College libraries
Highway departments—Libraries
International labor office—Library
Library architecture
Library buildings
Library science
School libraries
Taxpayers' associations—Libraries

also subdivision Libraries under names of cities, e.g. New York (city)—Libraries; Philadelphia—Libraries

Circulation, loans, etc.

Comparative cost of loan service and of microfilm copying in libraries. A. Seidell. Science 94:515-16 N 28 '41

Directories

American library directory, 1942; a classified list of 11,764 libraries with names of librarians and statistical data. K. Brown, comp. 567p $15 R. R. Bowker, 62 W. 45th st, New York '42

Directory of libraries and informational sources. C. Griffin, ed. 6th ed 120p pa $1.60; to members $1.35 Special libraries council of Philadelphia and vicinity, Philadelphia '42

History

Chronology of librarianship; an introduction to the history of libraries and book-collecting. J. L. Thornton. 254p bibliog(p221-8) 12s 6d Grafton & co, London '41

Instruction in use

Library in action. F. D. Cleary. 62p pa 50c Wayne univ, Detroit '41

Practical library instruction; classification, Readers' guide, card catalog. M. Minster. 35p pa 50c Maud Minster, 1504 5th av, Altoona, Pa. '41

Use of a technical library. W. E. Jorgensen. (Circ. ser. 6) 21p pa 25c Oregon state engineering exp. station, Corvallis '42

Insurance requirements

Insuring and placing insurable values on your library collection. W. G. Rich. Special Lib 33:49-52 F '42

Planning a library insurance program. J. R. Page and D. K. Campbell. ALA Bul [Chicago] 36:508-13 Ag '42

Latin American collections

Librarian looks at the inter-American program. M. M. Cressaty. Special Lib 32:381-3 D '41

Microfilm service

Comparative cost of loan service and of microfilm copying in libraries. A. Seidell. Science 94:515-16 N 28 '41

Use of microfilms in the library of the American philosophical society. G. T. Garver, jr. Special Lib 33:76-8 Mr '42

Moving picture collections

Educational motion pictures and libraries. G. D. McDonald. 183p bibliog(p173-6) $2.75 Am. lib. assn, 520 N. Michigan av, Chicago '42

Phonograph records

Recording laboratory in the Library of Congress. J. B. Wiesner. il Acoustical Soc Am J 13:288-93 Ja '42

Reference work

Frozen assets. B. A. Soule. Special Lib 33:286-8 O '42

Practical hints for reference librarians. T. E. Keys. Special Lib 33:15-17 Ja '42

Special collections

Glimpse of some special collections in the National library, Brazil. O. C. Rodrigues. Special Lib 32:370-4 D '41

Library specialization. R. B. Downs, ed. 48p bibliog(p47-8) pa $1 Am. lib. assn, Chicago '41

Technology departments

Tulsa public library's petroleum collection. B. A. Osborne. Special Lib 33:126-7 Ap '42

Valuation

Insuring and placing insurable values on your library collection. W. G. Rich. Special Lib 33:49-52 F '42

War information centers

Public library war information centers. E. M. Danton. ALA Bul [Chicago] 36:500-7 Ag '42

Brazil

Glimpse of some special collections in the National library, Brazil. O. C. Rodrigues. Special Lib 32:370-4 D '41

Libraries in the state of São Paulo. J. A. Wysling. Special Lib 32:375-7 D '41

Latin America

Preliminary list of libraries in the other American republics. R. O. Rivera, comp. 181p bibliog(pix) Publications section, Office of the coordinator of Inter-American affairs Washington, D.C. '42

See also

Libraries, Special—Latin America

Virginia

Survey of research materials in Virginia libraries, 1936-37. H. Clemons, comp. 100p Alderman library, Charlottesville, Va. '41

LIBRARIES, County. See County libraries

LIBRARIES, Employees'

Employee libraries. M. Scherer. J Retailing 18:22-3 F '42

LIBRARIES, Government. See Government libraries

LIBRARIES, Museum. See Museum libraries

LIBRARIES, Private

Private libraries and dealers have Kingsley's great library. East Underw 43:5 My 8 '42

LIBRARIES, Regional

Regional and district libraries. J. W. Merrill, comp. rev ed 41p bibliog(p23-30) pa 75c Am. lib. assn, 520 N. Michigan av, Chicago '42

LIBRARIES, Special

Research needs and special library facilities. H. F. Kriege. Special Lib 33:41-4 F '42

Special libraries after the war; eight-point war aims as affecting special libraries. E. T. Evans. Special Lib 32:333-6 N '41

Special libraries and the needs of the future. L. A. Woodward. Special Lib 33:17-20 Ja '42

LIBRARIES, Special—*Continued*

What special libraries can do for civilian defense. R. Savord. Special Lib 33:11-14 Ja '42

See also

Bank libraries
Business libraries
College libraries—Departmental libraries
Gas companies—Libraries
Government libraries
Insurance libraries
Librarians, Special
Museum libraries
Petroleum libraries
Pharmaceutical libraries
Taxpayers' associations—Libraries
Technical libraries

also International labor office—Library; Marine biological laboratory, Woods Hole, Massachusetts—Library

Public relations

How can a public relations program best fit into the defense service of S.L.A.? E. Cavanaugh. Special Lib 32:386-7 D '41

National defense as a challenge to our Public relations committee. W. F. Jacob. Special Lib 32:345-7 N '41

Service

Co-operative abstracting service for the benefit of the U.S. Bureau of industrial conservation, War production board. Special Lib 33:176-7 My-Je '42

Role of the technical librarian in the paper industry. A. C. Davies. bibliog Paper Tr J 115:32-6 O 29 '42

What special libraries can do for civilian defense. R. Savord. Special Lib 33:11-14 Ja '42

War problems

Special librarian in wartime. I. M. Striebv. Special Lib 33:283-5+ O '42

Special libraries and the war. E. S. Cavanaugh. Special Lib 33:84-8 Mr '42

Specialized libraries and the war. L. W. Bass. ALA Bul [Chicago] 36:486-91 Ag '42

Latin America

Committee on cooperation with special libraries in Latin America. L. Ash, jr. Special Lib 32:383-5 D '41

LIBRARIES, Technical. See Technical libraries

LIBRARIES and Negroes

Southern Negro and the public library; a study of the government and administration of public library service to Negroes in the South. E. A. Gleason. 218p bibliog (p199-202) $2.50 Univ. of Chicago press '41

LIBRARIES and readers

Alexander library experiences, for use with the second edition of How to locate educational information and data. C. Alexander. 158p pa $1.50; Instructor's manual. 15 numb l Teachers college '41

LIBRARIES and research

Library-laboratory research. J. W. Kushing. Roads & Sts 84:46-7 D '41

Research for flood control data; guide to printed material. G. E. Larson. il map Civil Eng 12:131-4 Mr '42

Research needs and special library facilities. H. F. Kriege. Special Lib 33:41-4 F '42

LIBRARIES and schools

Library guidance for teachers. M. K. Walraven and A. L. Hall-Quest. 308p $2.75 Wiley '41

LIBRARIES and war

Activities of the Library of Congress in wartime. D. Mearns. Special Lib 33:295-9 O '42

Cementing Sino-American friendship; American library association committee on aid to libraries in war areas. W. M. Hartwell. Science 96:158 Ag 14 '42

Message from Elmer Davis to American librarians. Special Lib 33:305 O '42

Periodicals for libraries in war areas. J. R. Russell. Library Journal 67:650-3 Ag '42

War and libraries. R. A. Beals and others. ALA Bul [Chicago] 36:476-99 Ag '42

See also

Libraries, Special—War problems

LIBRARY administration

Librarian and his committee. E. A. Savage. 254p 12s 6d Grafton & co, Coptic house, 51 Great Russell st, London, WC 1 '42

Small public library; organization, administration, service. L. M. Moshier and H. S. LeFevre. 142p bibliog(p130-4) pa $1.50 Am. lib. assn, Chicago '42

See also

Libraries—Insurance requirements

LIBRARY architecture

Tropico branch library and fire station no. 2, Glendale, Calif. il plans Arch Rec 90:58-9 D '41

LIBRARY associations

Council of library associations. L. A. Woodward. Special Lib 32:391 D '41

Council of national library associations. Special Lib 33:25 Ja '42

Unity among library organizations. C. H. Brown. Special Lib 33:213-15 Jl-Ag '42

LIBRARY buildings

See also

Library architecture

Air conditioning

Harvard air conditions rare book library. Heat & Ven 39:24 Ap '42

Heating and ventilation

New England deposit library provides cooperative storage for dead books. G. K. Saurwein. il Heating-Piping 14:486 Ag '42

Lighting

Light for libraries; Mechanics institute, San Francisco. il Elec West 89:76 O '42

LIBRARY cooperation

Committee on cooperation with special libraries in Latin America. L. Ash, jr. Special Lib 32:383-5 D '41

Development of university centers in the South. A. F. Kuhlman, ed. 128p $1 Peabody press, Nashville, Tenn. '42

Librarian looks at the inter-American program. M. M. Cressaty. Special Lib 32:381-3 D '41

New England deposit library provides cooperative storage for dead books. G. K. Saurwein. il Heating-Piping 14:486 Ag '42

LIBRARY costs

Elementary costing for libraries. V. G. Pintress. 47p pa 5s Alex J. Philip, Lodgewood, Gravesend, England '42

LIBRARY employees

See also

Librarians

LIBRARY finance

Unit costs in a selected group of high-school libraries. M. E. Crookston. diag U S Office of Educ Bul 1941, no 11:1-36 bibliog(p24-6) '42

LIBRARY insurance. See Libraries—Insurance requirements

LIBRARY laws and legislation

Regional and district library laws. J. W. Merrill, comp. 67p pa 75c Am. lib. assn, 520 N. Michigan av, Chicago '42

LIBRARY loans. See Libraries—Circulation, loans, etc.

LIBRARY of Congress

Activities of the Library of Congress in wartime. D. Mearns. Special Lib 33:295-9 O '42

Fortress of freedom; the story of the Library of Congress. L. Salamanca. 445p $4 Lippincott '42

Library of Congress as a point of contact in dealing with technical libraries in Washington and various government agencies. L. H. Evans. Special Lib 32:341-2 N '41

Recording laboratory

Recording laboratory in the Library of Congress. J. B. Wiesner. il Acoustical Soc Am J 13:288-93 Ja '42

LIBRARY schools and training
Graduate study in librarianship in the United States. H. F. Pierce. 87p bibliog(p71-6) Am. lib. assn, Chicago '41
See also
Librarians, Special—Training

LIBRARY science
How to organize a library. Z. K. Miller. 10th ed rev 46p bibliog(p38-46) Remington Rand, Library bur. div, Buffalo, N.Y. '41
Small public library; organization, administration, service. L. M. Moshier and H. S. LeFevre. 142p bibliog(130-4) pa $1.50 Am. lib. assn, 520 N. Michigan av, Chicago '42
Standardization in library practices; a postwar reconstruction project. R. M. Lane. Special Lib 33:160-2 My-Je '42
See also
Bibliography
Cataloging
Classification
Libraries

Bibliography

Library literature, 1941. M. Shaw, ed. 469p Wilson, H.W. '42

Dictionaries, vocabularies, etc.

Library science glossary; defining and explaining nearly a thousand technical words, phrases, and abbreviations used in the profession of librarianship. L. E. Tomlinson. 132p pa $1.40 Laurence Elliott Tomlinson, Baylor univ. lib, Waco, Tex. '42

LIBRARY service
National defense and the public library. N. A. Unger and K. Shorey. 47p pa 35c Am. lib. assn, Chicago '42
See also
Libraries—Microfilm service
Libraries, Special—Service

LIBRARY standards
Standardization in library practices; a postwar reconstruction project. R. M. Lane. Special Lib 33:160-2 My-Je '42

LIBYA
Fourth shore; Italy's mass colonization of Libya. M. Moore. 233p $4 Musson book co, 480 University av, Toronto, 2 '40

LICANIC acid
Isomerizations of polyene acids and carotenoids; preparation of β-eleostearic and β-licanic acids. H. H. Strain. bibliog Am Chem Soc J 63:3448-52 D '41

LICE
Army louse powder. Soap & San Chem 18:105 N '42
Flea and louse control. il Soap & San Chem 17:115-17 D '41

LICENSES
Licensing dangers. J. E. Young. Water Works & Sewerage 89:180-1 Ap '42
Licensing of Canadian retail trades. Monthly Labor R 53:1396 D '41
Wholesalers, retailers licensed under all price ceilings. Oil Paint & Drug Rep 142:3 Ag 10 '42
See also
Engineers—Registration

LICHENS
Lichen colors. A. E. Karr. Textile Col 64:431-6 S '42

LICHNOWSKY, Karl Max, prince, 1860-1928
Prince Lichnowsky, ambassador of peace; a study of prewar diplomacy, 1912-1914. E. F. Willis. 318p bibliog(p304-6) pa $2.75 Univ. of California press, Berkeley '42

LIE, Sophus, 1842-1899
Group theory dilemma of Sophus Lie and Felix Klein. G. A. Miller. Science 95:353-4 Ap 3 '42

LIE detectors
Honesty test in employment; abstract. W. D. Scott and others. Management R 30:445-6 D '41

LIEBIG, Justus von, 1803-1873
Liebig and proteins. H. B. Vickery. por J Chem Educ 19:73-9 F '42

LIFE
Reckoning with life. G. A. Wilson. 311p $2.75 Yale univ. press '42

LIFE (biology)
Dr Carrel's immortal chicken heart. A. H. Ebeling. il Sci Am 166:22-4 Ja '42
New theory of the origin and nature of life; that emanations from volcanoes, sulfurous, cyanic and ammoniacal, produce microorganisms by chemical synthesis. A. L. Herrera. Science 96:14 Jl 3 '42; Discussion. J. Alexander. 96:252-3 S 11 '42
See also
Biological chemistry
Biology
Botany
Physiological chemistry
Physiology
Zoology

LIFE boats. See Lifeboats

LIFE in other worlds
Is there life on the other worlds? J. Jeans. Science 95:589-92 Je 12 '42

LIFE insurance. See Insurance, Life

LIFE insurance advertisers association (formerly Life advertisers association)
Eastern round table meeting, New York, March 26-27. East Underw 43:14 Ap 3 '42; Ins Field (Life ed) 71:20-1 Ap 3 '42; Spectator (Life ed) 148:6-9 Ap 9 '42; Weekly Underw 146:736 Mr 28 '42; Nat Underw (Life ed) 46:4+ Ap 3 '42
North central round table, Excelsior Springs, Mo., April 23-24. East Underw 43:16 My 1 '42; Nat Underw (Life ed) 46:3+ My 1 '42
Southern round table meeting, Chattanooga, Tenn. May 14-15. Ins Field (Life ed) 71:5+ My 22 '42: Nat Underw (Life ed) 46:2+ My 22 '42

LIFE insurance presidents, Association of. See Association of life insurance presidents

LIFE insurance sales research bureau
Joint meeting with Association of life agency officers, 20th, Toronto, Nov. 3-5. East Underw 42:1+ N 7 '41; Ins Field (Life ed) 70:5-6+ N 7 '41; Nat Underw (Life ed) 45:1+ N 7 '41; Spectator (Life ed) 147:12-13+ N 6; 17+ N 20 '41; Weekly Underw 145:1094, 1096-1105 N 8 '41

LIFE office management association
Annual meeting, New York, Sept. 30. Nat Underw (Life ed) 46:3+ O 2 '42
Committee setup. Nat Underw (Life ed) 45:5 D 26 '41
Executive staff careers. East Underw 42:13 D 12 '41
Spring conference, Greensboro, N.C. Nat Underw (Life ed) 46:4-6 My 8 '42; Spectator (Life ed) 148:18-19+ My 7 '42
War forces home office changes; report at annual meeting. F. L. Rowland. Weekly Underw 147:781+ O 3 '42

LIFE rafts
Cellular rubber is light in weight, used in life rafts. Sci Am 167:28-9 Jl '42; Mach 48:219 Jl '42
Dealers' life rafts; auto agencies of Denver bid for navy contract. Business Week p20 F 21 '42
Goodyear builds inflated boats for Uncle Sam's armed forces. il Rubber Age 51:61 Ap '42
New balsa wood reversible life raft. il Marine Eng 47:111 Ja '42
War and merchant seamen; life-saving appliances. Int Labour R 45:647-51 Je '42

LIFE savers corporation
F.T.C. hits special discount list. Oil Paint & Drug Rep 141:5+ Ja 5 '42

LIFE saving
See also
First aid in illness and injury
Respiratory apparatus
Safety devices and measures
Safety movement

LIFE tenants and remaindermen
Apportionment of proceeds of mortgage foreclosures; rule where life tenant dies before sale for cash and mortgage. Trusts & Estates 74:532 My '42

LIFE tenants and remaindermen—*Continued*
Apportionment on foreclosure of mortgage where salvage operation is incomplete. Trusts & Estates 75:194-5 Ag '42
Construction of statute declaring stock dividends to be principal; Disposition of dividends when life beneficiary dies after declaration but before record date. Trusts & Estates 74:333-4 Mr '42
Disposition of income earned pending contingent beneficiaries attaining majority; income earned before life tenant's death; stock dividends belong to corpus. Trusts & Estates 75:428-9 O '42
Liability of executor-trustee for exhaustion of corpus by legal life tenant. Trusts & Estates 73:571 N '41

LIFE underwriters association of Canada
Annual meeting, Toronto. Nat Underw (Life ed) 46:4 Ja 30 '42

LIFEBOATS
Abandon-ship necessities; ship and lifeboat equipment. il Nat Safety N 45:22, 58 Ap '42
Lifeboat transmitters; regulations of the Federal communications commission. Electronics 15:96 Jl '42
Shift to plywood. Business Week p68 O 24 '42
War and merchant seamen; life-saving appliances. Int Labour R 45:632-61 Je '42

See also
Life rafts

Manufacture

From stoves and ranges to steel lifeboats; Globe American corporation. il Am Business 12:14-15 F '42
From stoves to lifeboats. A. Chester. il Factory Management 100:66-8 Mr '42
Stove manufacturer builds lifeboats; Globe American corp. il Iron Age 149:66-7 Mr 12 '42
Stove plant turns out life boats on a production-line basis. il Cer Ind 39:35-6 Jl '42

LIFEBOATS, Rubber
Parachute boat carries much equipment, yet is light in weight. il(cover) Sci Am 167:178-9 O '42

LIFTING magnets
Crane locomotive with lifting magnet. il Engineering 153:467-8 Je 12 '42
40-ton electro-magnet on the L.M.S. railway. il Engineer 172:341 N 14 '41
Lifting magnets for the steel industry. H. L. Wilcox. il Steel 110:82, 85-6 Ja 26 '42
Metal handling with magnets in steel plants. A. E. Lillquist. il Steel 109:58, 61+ D 22 '41

See also
Roads—Magnetic sweeping

LIGGETT and Myers tobacco company
Liggett & Myers in war and peace. F. Dezendorf. Barron's 22:18 Jl 6 '42

LIGHT
Color of light on the projection screen. M. R. Null, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:219-28 Mr '42
Engineering fundamentals. diags Diesel Power 20:758+ S '42
Experimental heat, sound and light; an analytical college text. H. B. Lemon and M. Ference. 5th ed 361 numb l pa $3.50 Univ. of Chicago bookstore, Chicago '42
General law of diminution of light intensity in natural waters and the percent of diffuse light at different depths. L. V. Whitney. diags Opt Soc Am J 31:714-22 D '41
New application of light to meter testing. M. W. Hime. Light & Lighting 35:86 Jl '42
Transmission of light in the atmosphere with applications to aviation. H. G. Houghton. bibliog J Aeronautical Sci 9:103-7 Ja '42

See also
Absorption of rays
Brightness
Color
Daylight
Depolarization (light)
Dyes, Fastness of
Eye
Fluorescence
Glass—Light transmission
Insects, Effect of light on
Interference (light)
Light projection
Lighting
Luminescence
Optics
Paint—Light reflection
Photochemistry
Photoelasticity
Photoelectric cells
Photography
Photometry
Photophoresis
Polarization (light)
Radiation
Radioactivity
Reflection (optics)
Refractive index
Spectrum
Stroboscopic instruments
Ultraviolet rays
Visibility
X rays

Physiological effect

Syntonic principle. H. R. Spitler. 217p $10; to libs $5 College of syntonic optometry, Eaton, Ohio '41
What effect do light rays from arc welding or flame cutting have on eyes? H. F. Ingersoll. Welding J 21:320-1 My '42

LIGHT, Colored
Blue light undesirable for blackouts. M. Luckiesh. Illum Eng 37:113-14 F '42
Interpretation of spectral distribution data in practical color applications. R. L. Oetting and C. L. Amick. bibliog diags Illum Eng 36:1369-90; Discussion. 1390-6 D '41
Night vision and day vision; abstract. S. Hecht. Science 95:sup8 My 15 '42; Same. Sci Am 167:25 Jl '42
Poetry of light; abstract. R. Gillespie Williams. Light & Lighting 35:102 Ag '42
Wartime lighting. C. E. Ferree and G. Rand. diag Personnel J 21:107-17 S '42; Same. Illum Eng 37:587-95 N '42

LIGHT, Polarization of. See Polarization (light)

LIGHT, Scattering of
Depolarization of the Tyndall-scattered light of bentonite and ferric oxide sols. C. R. Hoover, F. W. Putnam and E. G. Wittenberg. bibliog il diag J Phys Chem 46:81-93 Ja '42
Diffusion of light by plastics. il diags Mod Plastics 19:68-9, 102+ My '42
Polarization of light scattered by isotropic opalescent media. F. Perrin. bibliog J Chem Phys 10:415-27 Jl '42
Scattering of light by an aggregate of small dielectric particles. R. Landshoff. J Phys Chem 46:778-81 Je '42

See also
Raman effect

LIGHT filters
Blue filter glass for aluminum and bronze welding. Mach 48:158 Ja '42
Exaggerate; using filters to obtain contrast. D. W. Pease. il Am Phot 36:10-12 F '42
Measurement of visibility; Luckiesh-Moss visibility meter. M. Luckiesh and F. K. Moss. il diag J Aeronautical Sci 9:100-2 Ja '42
Test charts for filters. D. M. Bender. il Am Phot 36:24-6 Ag '42

LIGHT projection
Airport lighting. H. J. C. Pearson. il diags plan Elec Eng 61:119-25 Mr '42
Airport lighting in the United States and Europe. F. C. Breckenridge. il diags Illum Eng 36:1157-77; Discussion. 1177-83 D '41
Emergency lighting for line repair jobs. il Elec W 117:320 Ja 24 '42
Flat-rate floodlights earn $155 per kw; Blackstone Valley gas & electric system. il Elec W 116:1748 N 29 '41
Floodlighting for shipbuilding; Mare Island navy yard. H. J. Prosser. diags Elec West 89:53-4 O '42
Portable floodlighting unit, Nite-hawk. il Roads & Bridges 80:50 F '42
Portable floodlights for emergency use. il Ry Age 112:861 My 2 '42

See also
Airports—Lighting
Moving picture projection

LIGHT signals
Coast and geodetic survey develops new signal lamp. L. O. Colbert. il Civil Eng 12:458 Ag '42

LIGHT signals—*Continued*

Electrification of the Chicago airport. H. W. Baumer. Elec Eng 61:345-8 Jl '42

Signal lamps for night surveying. D. L. Parkhurst. il diags Eng N 128:184 Ja 29 '42

Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

Visual A.R.P. system. il diag Engineer 173:147 F 13 '42; Elec R (Lond) 130:291 F 27 '42

LIGHTERS

Bureau of supplies and accounts receives bids for 100 lighters of various types. Marine Eng 47:166+ Mr '42

LIGHTHOUSES

Sentries of the sea. J. J. Floherty. 220p $2 Lippincott '42

LIGHTING

Advance planning in lighting reconstruction; proceedings at I.E.S. sessional meeting. Light & Lighting 35:33 Mr '42

Anatomy of visual efficiency. H. L. Logan. bibliog il Illum Eng 36:1057-83; Discussion. 1083-1108 D '41

Brightness and brightness meters. A. H. Taylor. bibliog il Illum Eng 37:19-30 Ja '42

Comfortable lighting. W. Harrison and M. Luckiesh. bibliog il diags Illum Eng 36:1109-24; Discussion. 1125-8 D '41

Full color talking motion picture presented by Better light-better sight bureau. Edison Elec Inst Bul 9:500+ D '41

Future expansion of the lighting field; abstracts. W. J. Jones. Electrician 127:221-2 O 17 '41; Elec R (Lond) 129:403-4 O 17 '41; Light & Lighting 34:144, 146 O '41

Glare and lighting design; direct glare. E. W. Fowler and C. L. Crouch. bibliog diag Illum Eng 36:897-916 N '41; Discussion. 37:171-81 Mr '42

Illumination engineering. W. B. Boast. 274p $3 McGraw-Hill '42

Interpretation of spectral distribution data in practical color applications. R. L. Oetting and C. L. Amick. bibliog diags Illum Eng 36:1369-90; Discussion. 1390-6 D '41

Light for skating rink, restaurant and night club; illustrations. Elec West 87:58 N '41

Light furniture and surroundings. Light & Lighting 35:109 S '42

Light must live. il Elec West 89:46-53 S '42

Lighting experts vs. buyer's desires. J. L. Kamm. Elec West 87:49-50 D '41

Modern lighting practice. il Illum Eng 37:206-9 Ap '42 [cont monthly]

Portable lighting equipment on a rush job for the army. il Eng N 128:21 Ja 1 '42

Problems in illuminating engineering; summary of proceedings of sessional meeting of I.E.S. Light & Lighting 35:21-3 F '42

Seeing is believing. R. O. Ackerley. Electrician 129:408 O 16 '42

Steps of progress; report of the I.E.S. committee. il diag Illum Eng 36:990-1029 D '41

Twentieth century evolution of lighting practice. P. S. Millar. Illum Eng 36:1030-44; Discussion. il 1044-56 D '41

Ultraviolet illumination. J. H. Nelson. Light & Lighting 34:109-17 Ag '41

Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

Whither lighting? J. B. Harris. il Elec R (Lond) 129:466-8 O 31 '41

See also

Airports—Lighting
Automobiles—Lighting
Bridges—Lighting
Brightness
Canals—Lighting
Car lighting
Daylight
Drafting rooms—Lighting
Electric lamps
Electric lighting
Electric railroads—Lighting
Factories—Lighting
Factories—Yards—Lighting
Gas lighting
House lighting
Light projection
Lighting fixtures
Machine shops—Lighting
Moving picture photography—Lighting
Office lighting
Paint—Light reflection
Photography—Lighting
Photometry
Printing offices—Lighting
Railroads—Lighting
Roads—Lighting
School buildings—Lighting
Store buildings—Lighting
Street lighting
Textile mills—Lighting
Windows

Bibliography

Current articles on lighting. Published in monthly numbers of Illuminating engineering

Literature on lighting. Light & Lighting 35:12 Ja '42 [cont monthly]

Competitions

11th I.E.S. prize competition; lighting a super food market. W. I. Knapp. il plans Illum Eng 37:519-28 S '42

Cost

Choosing the right lamp for industrial lighting; with cost comparisons. H. S. Broadbent. Mach 48:148-51 F '42

Lighting maintenance in war industry plants. A. K. Gaetjens. Illum Eng 37:403-10 Jl '42

Exhibitions

Portable show boosts industrial lighting; Public service company of northern Illinois. il Elec W 116:2029+ D 27 '41

Psychological aspects

Illuminating engineer and the architect. N. A. Owings. il Illum Eng 37:369-76 Je '42

Lighting and well-being; factory and workshop; psychological effect. Electrician 127:266 N 7 '41

Psychology of lighting; low illumination values applied to effective decoration schemes. il Electrician 127:217-18 O 17 '41

Standards

American recommended practice of industrial lighting. il diags Illum Eng 37:275-321 bibliog(p320-1) My '42

Let's evaluate present day seeing requirements, footcandles. W. Sturrock. il Illum Eng 37:347-57 Je '42

Lighting of industrial plants; time-saver standards. Arch Rec 92:73 S '42

Recommended minimum standards of illumination for industrial interiors; tabulation. W. H. Kahler. Mach 48:141 Ja '42

Recommended practice of office lighting. bibliog il diags Illum Eng 37:449-89 S '42

Steelworks lighting; need for raising minimum standards. M. C. Toner. Elec R (Lond) 130:699-700 My 29 '42

Tentative specification for standard illuminants in textile color matching. Am Dyestuff Rep 31:267-8 My 25 '42; Same. Rayon 23:388 Jl '42

Tables, calculations, etc.

Calculation of illumination from triangular sources. D. E. Spencer. diags Opt Soc Am J 32:274-81 My '42

Graphical method of computing street lighting illumination charts. J. H. Dean. bibliog Illum Eng 37:417-22 Jl '42

Illumination from arrays of rectangular sources. D. E. Spencer. diags Opt Soc Am J 32:539-51 S '42

Lighting and seeing in the drafting room. W. G. Darley and L. S. Ickis. bibliog il diags Illum Eng 36:1462-87; Discussion. 1487-91 D '41

Performance evaluation of fluorescent units. K. Franck. diags Illum Eng 37:217-28 Ap '42

Terminology

Illumination terminology revised. E. C. Crittenden. Ind Stand 13:189-90 Jl '42

Testing

Wartime lighting. C. E. Ferree and G. Rand. diag Personnel J 21:110-17 S '42; Same. Illum Eng 37:589-95 N '42

LIGHTING—*Continued*

War measures

Blackout light uses glass refractor. diag Elec W 117:525 F 7 '42

Blackout lighting calculation. G. S. Merrill and G. F. Prideaux. Illum Eng 37:134-5 Mr '42

Blackout lighting control. il Elec West 88: 33-4 Mr '42

Blackout lighting improvisations. il Elec W 117:1195 Ap 4 '42

Blackouts and the electric industry. Edison Elec Inst Bul 10:1-4 Ja '42; Excerpts. Am Water Works Assn J 34:434-7 Mr '42

Classified sources of defense blackout devices; producers making equipment and materials. Elec W 117:74-7 Ja 10 '42

Complete city blackouts considered unnecessary. S. G. Hibben. Elec W News ed 116: 1965-6 D 20 '41

Dim out. A. Maxwell. Edison Elec Inst Bul 10:369-70 O '42

Dim-out order on Pacific coast. il diags Elec West 89:60-1 Jl '42

Dim-out tests on highways. Roads & Bridges 80:129 O '42

Do's and don'ts in protective lighting; abstract. P. L. Marble. Elec W 118:496 Ag 8 '42

England, its lighting in wartime. D. M. De Bard. Illum Eng 37:411-16 Jl '42

Frequency blackout control. Elec West 88:59 Ap '42

Light for protection. E. P. Coffey. Edison Elec Inst Bul 10:143-4 Ap '42

Lighting engineers study sky-glow. il Elec W 118:930-1 S 19 '42

Lighting in war time. J. S. Dow. Light & Lighting 34:162 N '41

Outdoor lighting problems in war time; precautions involved in compliance with the Lighting (restrictions) order, 1940. Light & Lighting 34:128-34 S '41

Pacific Coast dimout ordered. Elec W 118: 458 Ag 8 '42

Problems in A.R.P. lighting. E. W. Murray. Light & Lighting 34:147-50 O '41

Street light control for air raids. diags Elec W 117:1684 My 16 '42

Street lighting in war time; abstract. J. S. Dow. Pub Works 73:24 S '42

Street lighting under wartime conditions. J. S. Low. Roads & Bridges 80:90-1 Ap '42

This once bright world; Pacific coast obeys new dimout order. il diags Elec West 89: 43-4 S '42

Utility operating problems during blackouts. F. M. Starr. Power Pl Eng 46:66-7 Ap '42

Visual aids to traffic movement under blackouts. W. S. Everett and K. M. Reid. diags map Illum Eng 36:1184-1203 bibliog(p1201-3); Discussion. 1203-4 D '41

Wartime lighting. C. E. Ferree and G. Rand. diags Personnel J 21:68-77, 107-17 Je-S '42; Same. Illum Eng 37:579-95 N '42

Weak illumination for use in blackouts. C. S. French. Chem & Eng N 20:300 F 25 '42

What constitutes waste of light? action taken against certain hotels and theatres under the Waste of fuel order. Light & Lighting 35:112+ S '42

See also Blackouts in war

LIGHTING, Architectural

Illuminating engineer and the architect. N. A. Owings. il Illum Eng 37:369-76 Je '42

LIGHTING, Decorative

See also
Light, Colored

LIGHTING, Electric. See Electric lighting

LIGHTING, Gas. See Gas lighting

LIGHTING, Indirect

Filament indirect lighting in an office; case study in approved conversion lighting. diag Elec W 118:115 Jl 11 '42

Indirect fluorescent for drafting room. il Elec W 116:2072 D 27 '41

LIGHTING, Industrial

American recommended practice of industrial lighting. il diags Illum Eng 37:275-321 bibliog(p320-1) My '42

Better lighting means better work in all plant departments. C. N. Everett. il Inland Ptr 108:36-9 N '41

Carbon arc, a valuable industrial tool. W. C. Kalb. bibliog il Elec Eng 61:Trans 581-5 Ag '42

Ceiling repainting schedules for maximum lighting efficiency. Nat Safety N 45:74-5 Ja '42

Color-conditioning in modern industry. F. Birren. il Dun's R 50:13-15+ Jl '42; Abstract. Management R 31:261-2 Ag '42

Color for production, an analysis of the part of paint and other pigments in providing a better seeing environment in industrial buildings, by Faber Birren. il Arch Forum 77:85-8 Jl '42

Comfortable lighting. W. Harrison and M. Luckiesh. bibliog il diags Illum Eng 36: 1109-24; Discussion. 1125-8 D '41

Continuous reflector troughing; fluorescent tubular discharge lamps. il Electrician 128: 608-9 Je 19 '42

Glass blocks bend light; daylight conservation achieved by refraction of incoming light to ceilings and sidewalls. il Sci Am 166: 62-3 F '42

Good lighting will help us win. il Factory Management 100:101-6 Mr '42

How to light spray booths. il Elec W 118: 312 Jl 25 '42

Industrial lighting in reconstruction. H. C. Weston. Light & Lighting 34:160-1 N '41

Let's evaluate present day seeing requirements, footcandles. W. Sturrock. il Illum Eng 37:347-57 Je '42

Light for a show room, sorting table and banking office. il Elec West 88:88 F '42

Light must live; for war production and for peacetime hometown industry. il Elec West 89:48-9 S '42

Lighting for production. J. O. Kraehenbuehl. il Edison Elec Inst Bul 10:139-42 Ap '42

Lighting of industrial plants; reference studies on design and planning; with timesaver standards. il diags Arch Rec 92: 63-79 S '42

Lighting on colliery picking belts. C. S. Chubb. Mech Handling 29:50 Mr '42

Lo-vo-lite; low voltage transformer switch fuse unit for industrial lighting. il Electrician 129:365-6 O 2 '42

Maintenance hints for industrial lighting; program for incandescent and fluorescent lamps. il Power 86:545 Ag '42

Outdoor lighting problems in war time; precautions involved in compliance with the Lighting (restrictions) order, 1940. Light & Lighting 34:128-34 S '41

Portable show boosts industrial lighting; Public service company of northern Illinois. il Elec W 116:2029+ D 27 '41

Recommended minimum standards of illumination for industrial interiors; tabulation. W. H. Kahler. Mach 48:141 Ja '42

Salvaging waste light for victory. A. A. Brainerd and R. A. Massey. il diag Edison Elec Inst Bul 10:341-3+ S '42; Abstract. Iron Age 150:53 O 15 '42

Small illuminating device; lamp designed for surgeons useful in industry. C. Cleveland. il Metal Finishing 40:419 Ag '42

Spotlighting. Chem & Met Eng 49:144 Je '42

Steps of progress; report of the I.E.S. committee. il diag Illum Eng 36:990-1029 D '41

Wartime lighting. C. E. Ferree and G. Rand. diag Personnel J 21:73-7 Je '42; Same. Illum Eng 37:579-83 N '42

Why good lighting will help win the war. H. F. Barnes. il Edison Elec Inst Bul 10: 13-15 Ja '42

See also
Drafting rooms—Lighting
Factories—Lighting
Factories—Yards—Lighting
Machine shops—Lighting
Steel works—Lighting
Textile mills—Lighting

Advertising

GE shows lighting industry how it can help to win the war. H. F. Barnes. il Sales Management 51:18-20 Jl 1 '42

LIGHTING, Industrial—*Continued*

Standards

American recommended practice of industrial lighting. 51p bibliog(p50-1) pa 25c Illuminating engineering soc, 51 Madison av, New York '42

Industrial lighting standard helps maintain efficiency. H. B. Dates. il Ind Stand 13:191-3 Jl '42

LIGHTING, Natural. See Daylight

LIGHTING fixtures

Big market for ceramic coated glass seen in new fluorescent fixtures. il Cer Ind 38:68, 70 Mr '42

Don't be caught with your lumens down; a discussion of maintenance and its problems. P. R. Holmes and H. W. Conklin. Illum Eng 37:358-68 Je '42

How public relations minded association staged comeback; American lighting equipment association. J. Markel. il Ptr Ink 197:17-20 D 19 '41

Illumination distribution from linear strip and surface sources. E. H. Wakefield and C. McCord. bibliog il diags Illum Eng 36:1330-8; Discussion. 1338-9 D '41

Indoor, outdoor blackout fixtures. il diags Elec W 117:682 F 21 '42

Industrial light hood made of pressboard. E. D. Tillson. il Elec W 118:797+ S 5 '42

Lighting fittings; Electric light fittings association's report for year 1941. Electrician 128:429-30 My 1 '42

Lighting of industrial plants; fixtures for filament and mercury lamps. diags Arch Rec 92:74 S '42

Maintenance of protective lighting. G. A. Eddy. il plan Power Pl Eng 46:73-6 N '42; Same. Blast F & Steel Pl 30:1251-4 N '42

Opal glass lighting fittings; abstracts. S. English. Elec R (Lond) 130:722 Je 5 '42; Light & Lighting 35:78 Je '42

Outdoor lighting problems in war time; precautions involved in compliance with the Lighting (restrictions) order, 1940. Light & Lighting 34:128-34 S '41

Outlook for supply of lamps and lighting equipment. D. M. Julien. Edison Elec Inst Bul 10:145-8 Ap '42

Planning for maintenance; fluorescent lamps. E. W. Beggs. il Illum Eng 36:1354-65 D '41; Abstract. Nat Safety N 45:26-7+ Je '42; Discussion. Illum Eng 36:1366-8 D '41

Plastics competition award to Ivan T. Johnson co.; glare shield for fluorescent lamp reflector, Plastacele. il Mod Plastics 19:104-5 N '41

Plastics competition award to Leader electric mfg. corp.; Zephyrlite, plastic lamp shield. il Mod Plastics 19:102-3 N '41

Protective lighting of boundaries around defense areas. R. M. Swetland and J. E. Bock. il diags Gen Elec R 45:152-7 Mr '42

Protective lighting of industrial plants; General Electric luminaires. R. M. Swetland. il diags Blast F & Steel Pl 30:325-30 Mr '42

Spreading the light. il Mod Plastics 19:51+ Mr '42

Substitute materials in war-plant lighting. E. D. Tillson. il diags Elec Eng 61:458-60 S '42

Urea plastics in lighting fixtures. R. B. Barnes and C. R. Stock. il diag Mod Plastics 19:61-5, 96, 98+ F '42; Same. Illum Eng 37:89-102 F '42

Used fixtures help build lighting load. M. S. Gilbert. Elec W 117:1226-7 Ap 4 '42

War production board lighting fixture questionnaire. Illum Eng 37:437-8 S '42

What's what in fixtures. il diags Factory Management 100:111-13 Mr '42

See also
Electric lamps

Cleaning

Cleaning increases light output 30 per cent. il Steel 111:52 Ag 31 '42

How to get the most out of electrical equipment. R. H. Rogers. il Factory Management 100:125-6 O '42

Lighting maintenance in war industry plants. A. K. Gaetjens. Illum Eng 37:403-10 Jl '42

Design

Fundamental facts of fluorescent fixture design. F. C. Winkler. diags Illum Eng 37:229-47 Ap '42

Glare and lighting design; direct glare. E. W. Fowler and C. L. Crouch. bibliog diag Illum Eng 36:897-916 N '41; Discussion. 37:171-81, 423-4 Mr, Jl '42

Manufacture

Flexible infra-red for fixture drying. il Elec W 117:1679-80 My 16 '42

Temperature

Heating of factory and office lighting fittings and their connecting leads. H. G. Taylor, W. Lethersich and P. D. Morgan. Light & Lighting 34:118 Ag '41

LIGHTING research

Glare and lighting design; direct glare. E. W. Fowler and C. L. Crouch. bibliog diag Illum Eng 36:897-916 N '41; Discussion. 37:171-81 Mr '42

Illumination distribution from linear strip and surface sources. E. H. Wakefield and C. McCord. bibliog il diags Illum Eng 36:1330-8; Discussion. 1338-9 D '41

Progress in engineering knowledge during 1941; seeing, indoor and outdoor lighting. P. L. Alger. bibliog il diags Gen Elec R 45:114-19 F '42

Reflection factors of floor materials. P. Moon. Opt Soc Am J 32:238-42 Ap '42

Suggested research problems in illumination. Illum Eng 37:52-4 Ja '42

Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

LIGHTNING

Abnormal currents in distribution transformers due to lightning. J. M. Bryant and M. Newman. il diag Elec Eng 61:Trans 564-8 Ag '42

Direct measurement of lightning current. J. W. Flowers. bibliog il diags Franklin Inst J 232:425-50 N '41

Effect of lightning on thin metal surfaces. K. B. McEachron and J. H. Hagenguth. il diag Elec Eng 61:Trans 559-64 Ag '42

Electric shock induced by lightning stroke. E. C. Starr. Elec Eng 61:227-8 Ap '42

Field investigation of the characteristics of lightning currents discharged by arresters. I. W. Gross, G. D. McCann and E. Beck. il diags Elec Eng 61:Trans 266-71 My '42

Hot and cold lightning. Dun's R 49:41 D '41

Lightning causes two generator burnouts. il Locomotive 44:46-8 Ap '42

Lightning charted to provide defense for power lines. il Sci Am 167:169 O '42

Lightning discharge. C. E. R. Bruce and R. H. Golde. il diags Inst E E J 88 pt 2:487-505 bibliog(80 references, p504-5) D '41; Excerpts. Elec R (Lond) 128:596 Ap 25 '41; Discussion. Inst E E J 88 pt 2:505-20 D '41

Lightning; fulchronograph studies; Westinghouse electric & manufacturing co. Sci Am 166:287-8 Je '42

Lightning investigation at high altitudes in Colorado. L. M. Robertson, W. W. Lewis and C. M. Foust. bibliog il diag Elec Eng 61:Trans 201-8 Ap '42; Abstract. Power Pl Eng 46:67 Ap '42

Lightning investigation on 132-kv transmission system of the American gas and electric company. I. W. Gross and G. D. Lippert. bibliog il diags Elec Eng 61:Trans 178-85 Ap '42

Lightning investigation on Wallenpaupack-Siegfried 220-kv line of Pennsylvania power and light company. E. Bell and F. W. Packer. bibliog diags Elec Eng 61:Trans 196-201 Ap '42

LIGHTNING—*Continued*

Measurement of lightning voltages and currents in Nigeria, 1938-1939. F. R. Perry, G. H. Webster and P. W. Baguley. bibliog diags Inst E E J 89 pt 2:185-203, pl 1-4 Je '42; Abstract. Elec R (Lond) 129:703-4 D 19 '41; Discussion. Inst E E J 89 pt 2: 203-9 Je '42

Measurement of lightning voltages and currents in South Africa and Nigeria, 1935 to 1937. F. R. Perry. bibliog diags pl Inst E E J 88 pt 2:69-87 Ap '41; Discussion. 88 pt 2: 521-4 D '41

Phenomena of lightning. K. B. McEachron. il diags W Soc E J 47:43-58 Ap '42

Progress in engineering knowledge during 1941. P. L. Alger. Gen Elec R 45:106-7 F '42

Recorder measures lightning current; photographic surge-current recorder. G. D. McCann. il diag Elec W 117:1374 Ap 18 '42

Surge propagation. T. F. Wall. diags Engineering 154:281-3, 321-3, 361-2 O 9, 23, N 6 '42

When lightning strikes; applied research has reduced damage. G. D. McCann. il Sci Am 167:23-5 Jl '42

See also

Airplanes—Lightning effects

Lightning protection

LIGHTNING, Artificial

Fulgurites made artificially, using hot lightning. P. L. Bellaschi. il Sci Am 166:290+ Je '42

LIGHTNING arresters

Distribution-type lightning-arrester performance characteristics. Elec Eng 61:Trans 132 Mr '42

Effects of pole end bonding in lightning arrester protected cable installations. N. B. Walsh. il diags Edison Elec Inst Bul 10: 53-6+ F '42

Field investigation of the characteristics of lightning currents discharged by arresters. I. W. Gross, G. D. McCann and E. Beck. il diags Elec Eng 61:Trans 266-71 My '42

How lightning and surges can be rendered innocuous by two sets of arresters working in tune. F. W. Richart. il diag Coal Age 47:51, 54-5 My '42

Oxide-film arresters readied for service. il Elec W 117:1850-1 My 30 '42

Testing

Modern cathode-ray oscillograph for testing lightning arresters. E. J. Wade, T. J. Carpenter and D. D. MacCarthy. bibliog il diags Elec Eng 61:Trans 549-53 Ag '42

Modern impulse generators for testing lightning arresters. T. Brownlee. bibliog il diags Elec Eng 61:Trans 539-44 Ag '42

LIGHTNING conductors

Surge propagation; measurement of the currents in lightning conductors and transmission-line towers; use of buried earth line. T. F. Wall. diags Engineering 154:321-3 O 23 '42

LIGHTNING protection

Design of 33,000 volt wood pole line. C. H. Lindell. bibliog diags Edison Elec Inst Bul 10:273-81 Jl '42; Same cond. Elec W 117: 2055-8 Je 13 '42

Expulsion tubes greatly reduce 66-kv. outages. W. O. Smith. diags map Elec W 118: 932-4 S 19 '42

Gaps can be used instead of arresters. B. E. Ellsworth. diag Elec W 118:472 Ag 8 '42

Influence of towers and conductor sag on transmission-line shielding. R. W. Sorensen and R. C. McMaster. il diags Elec Eng 61: Trans 159-65 Mr '42

Lightning protection of buildings. E. H. W. Banner. Engineer 174:48-51, 66-7 Jl 17-24 '42

Pick-up and resistance of counterpoise systems. W. W. Lewis. Elec W 116:1720-1+ N 29 '41

Practical design of counterpoise for transmission-line lightning protection. E. Hansson and S. K. Waldorf. bibliog diags Elec Eng 61:Trans 599-603 Ag '42

Practical lightning protection at mine substations. C. C. Ballard. il Min Cong J 27: 35-7 D '41

Protection from lightning. W. S. Sholl. Electrician 128:532-4 My 29 '42

Protection from lightning. W. S. Sholl. Electrician 129:243-4 S 4 '42

Shielding of substations. C. F. Wagner, G. D. McCann and C. M. Lear. bibliog diags Elec Eng 61:Trans 96-100 F '42

Study of driven rods and counterpoise wires in high-resistance soil on Consumers power company 140-kv system. J. G. Hemstreet, W. W. Lewis and C. M. Foust. Elec Eng 61:Trans 628-33 S '42

Ten years of progress in lightning protection. bibliog(64 titles) diags Elec Eng 61:187-92 Ap '42

When lightning strikes; applied research has reduced damage. G. D. McCann. il Sci Am 167:23-5 Jl '42

See also

Electric transient phenomena

Lightning arresters

LIGHTSHIPS

Sentries of the sea. J. J. Floherty. 220p $2 Lippincott '42

LIGNANS

Chemistry of the lignan group of natural products. R. D. Haworth. Chem Soc J p448-56 Jl '42

LIGNIN

Behavior of some lignin preparations in the molecular still. J. F. Hechtman. bibliog il diag Paper Tr J 114:45-50 My 28 '42; Abstract. Pulp & Pa of Can 43:380 Ap '42

Effect of initial drying temperature on the apparent lignin content of plant tissues; abstract. D. MacDougall and W. A. DeLong. Food Ind 14:109 Je '42

Hydrolytic derivatives of lignin volatile compounds. A. Bailey. Am Chem Soc J 64:22-3 Ja '42

Lignin-enriched filler, a non-critical extender for phenolic molding compositions. J. G. Meiler. il Mod Plastics 20:64-6+ S '42

Lignin plastics development. Mod Plastics 19: 46-7 My '42

Lignins isolated in the presence of butanol. H. Y. Charbonnier. bibliog Paper Tr J 114: 31-6 Mr 12 '42

Lucrative lignin; once wasted by-product of sulphite pulp. A. Abrams. il Tech R 44: 449-50+ Jl '42; Same. Pulp & Pa of Can 43:686-8 Ag '42

Mechanism of the chlorination of lignin. E. V. White and others. bibliog Paper Tr J 113:33-43 D 11 '41

Nature of lignin residues in unbleached and partially bleached sulphite pulp. L. L. Larson. Paper Tr J 113:25-31 N 20 '41

Relation of lignin content to the strength of paper and paperboards. W. F. Fowler, jr. and W. M. Harlow. il Paper Tr J 114:29-30 Ap 2 '42

Relation of lignin content to the strength of paper and paperboards; pulpsheets and boards prepared from groundwood delignified by chlorine dioxide, sulphate, and soda processes. E. C. Jahn and C. V. Holmberg. bibliog Paper Tr J 114:33-8 Ap 23 '42

Some of the recent developments in lignin chemistry. H. Erdtman. bibliog(55 references) Pulp & Pa of Can 43:253-9 F '42; Same cond. Chem Age (Lond) 46:231-2, 243-4, 253-4 My 2-16 '42

Studies on lignin and related compounds; aromatic aldehydes from plant materials. R. H. J. Creighton, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3049-52 N '41

Studies on lignin and related compounds; high pressure hydrogenation of wood using copper chromite catalyst. H. P. Godard, J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3061-6 N '41

Studies on lignin and related compounds; hydrogenation of wood. J. R. Bower, jr., J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3066-8 N '41

LIGNIN—*Continued*

Studies on lignin and related compounds; hydrogenation studies on maple ethanolysis products. L. M. Cooke, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3052-61 N '41

Studies on lignin and related compounds; mechanism of the ethanolysis reaction. W. B. Hewson, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3041-5 N '41

Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

Studies on lignin and related compounds; synthesis and properties of glycosides related to lignin. J. H. Fisher, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 63:3031-5 N '41

Studies on lignin and related compounds; synthesis and properties of β-hydroxypropioveratrone. K. A. West, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 63:3035-8 N '41

Studies on lignin and related compounds; the mechanism of the ethanolysis of maple wood at high temperatures. W. B. Hewson, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3045-8 N '41

Vanillin from lignin materials. I. A. Pearl. bibliog Am Chem Soc J 64:1429-31 Je '42

Wood hydrolysis; a continuous process. R. Katzen and D. F. Othmer. bibliog flow sheet il Ind & Eng Chem 34:314-22 Mr '42

See also
Paper mills—Waste

LIGNIN sulfonic acid

Control of sulphite cooking process; application of the reaction between aniline and lignin sulphonic acid. J. Seiberlich. Pulp & Pa of Can 43:260 F '42

LIGNITE

Burning low grade coals. W. F. Schaphorst. Heat & Ven 39:27 Ap '42

Hydrogen from lignite; other products from char produced by low temperature carbonization. W. B. Pratt. Min Cong J 28:16-17 Mr '42

Lignite a source of hydrogen. F. Thone. Science 95:sup8 Mr 27 '42

Louisiana lignite. D. P. Meagher and L. C. Aycock. 56p bibliog(p55-6) Louisiana geological survey, Dept. of conservation, Baton Rouge '42

Technical and economic study of drying lignite and subbituminous coal by the Fleissner process. L. C. Harrington, V. F. Parry and A. Koth. il diags U S Bur Mines Tech Pa 633:1-84; pa 20c Supt. of doc. '42

Texas lignite mine develops method of briquetting. il Coal Age 46:51 N '41

See also
Coal

LIGNOCELLULOSE

Molding with non-critical materials; redwood and lignocellulose fibers and resins, Colemorite 2-L. C. P. Morgan. il Mod Plastics 20:60-1 N '42

Plastics from hydrolyzed lignocellulose. R. Katzen, A. O. Reynolds and D. F. Othmer. flow sheet bibliog il Am Inst Chem Eng Trans 38:735-60 Ag '42; Same. Mod Plastics 20:91-7+ O '42; Excerpts. Chem & Met Eng 49:161-2 Jl '42; Same. Can Chem & Process Ind 26:393 Jl '42

Wood hydrolysis; a continuous process. R. Katzen and D. F. Othmer. bibliog flow sheet il Ind & Eng Chem 34:314-22 Mr '42

LIGNUM vitae

Saponin from the species of the lignum vitae trees. C. D. Mell. Textile Col 63:662-3 D '41

LILLY, Josiah K.

Awarded Remington medal. por Oil Paint & Drug Rep 142:7+ Ag 31 '42

LILLY, Scott Barrett, 1885-

Sketch. por Civil Eng 11:737 D '41

LIMA, Peru

Lima. 22p pa 5c Pan American union, Washington, D.C. '42

LIMA beans, Frozen

Brief summaries of grade standards issued by the Agricultural marketing administration. Food Ind 14:66-7 N '42

LIMA locomotive works, inc.

Annual report. Comm & Fin Chr 155:827 F 24 '42

LIME

Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42

Desulphurizing pig iron; report of German research. il Iron Age 149:45-8 Ap 9 '42

Increasing lime plasticity by electro-osmosis. F. C. Mathers and H. S. Wilson. Rock Prod 45:73-4 Mr '42

Jacobs continuous clarifier for phosphoric acid and lime clarification of melted sugar solutions used for white sugar manufacture. J. P. Greven. flow sheet il diags Ind & Eng Chem 34:633-7 My '42

Lime as a chemical raw material. W. E. Wing. il diags Chem Ind 50:612-17, 760-7 My-Je '42

Lime for petroleum industry; corrosion control in refineries. Rock Prod 45:90 Je '42

Lime; properties, uses, statistics, etc. O. Bowles and D. M. Banks. diag U S Bur Mines Information Circ 6884R:1-48 bibliog (p46-8) '41

Magnesium from lime. N. C. Rockwood. il Rock Prod 45:50-1 S '42

Pressure filtration of phosphoric-acid-and lime-defecated refinery and whole raw sugar liquors. C. A. Frankenhoff. il Ind & Eng Chem 34:742-4 Je '42

Some basic slag systems. R. Hay and J. White. bibliog Blast F & Steel Pl 30:446-8+ Ap '42

Strength of cement-lime mortars and concretes. W. F. Cassie. Engineering 152:301-3 O 17 '41

Useful properties of lime. R. W. McAllister. il Rock Prod 45:48-51+ O '42

See also
Cement

Manufacture

Calcining rates of limestone. R. Gibbs. Rock Prod 45:66-8 My '42

Lime as a chemical raw material. W. E. Wing. il diags Chem Ind 50:612-17 My '42

Lime experimentation. V. J. Azbe. diag Rock Prod 45:72+ F; 62-3 Mr; 49 Ap '42

Lime production; extensive use of electricity. il Elec R (Lond) 130:647-50 My 22 '42

Refractories for lime recovery kilns. C. A. Brashares. il diags Paper Ind 23:1200-3+ Mr '42

See also
Lime kilns

Testing

Properties of limes and lime mortars. H. R. Staley. Am Soc T M Proc 41:975-85; Discussion. 986 '41

Uses

Hydrated lime for thermal insulation. F. C. Mathers and H. S. Wilson. Rock Prod 45:58+ S '42

Lime as a chemical raw material. W. E. Wing. flow sheet il diag Chem Ind 50:760-7 Je '42

LIME as fertilizer

Assignments vs. grant-of-aid contracts; Hopkinsville stone co. finances agricultural limestone sales through farmer assignments under A.A.A. il Rock Prod 45:52-4 Je '42

Distributing plant sells agstone. il Rock Prod 45:38+ My '42

How Middle West built up market for liming material; producer, farmer, and government cooperate through activities of Midwest agricultural limestone institute. J. R. Bent. il Rock Prod 45:33-5 My; 49+ Je; 56 S '42

Meeting specifications in three states. il Rock Prod 45:54-5+ My '42

LIME as fertilizer—*Continued*
OPA forms policy for liming materials. Oil Paint & Drug Rep 142:5+ S 21 '42
Recover agstone from stone sand. il Rock Prod 45:60-1 My '42
Selling the agstone market. B. Nordberg. il Rock Prod 45:47-50 My '42
Shooting at 28 million ton market; selling and distribution problems of agricultural liming material in Ohio. W. H. Margraf. Rock Prod 45:44 My '42
Spreading sells agstone; brightly painted trucks, sales-minded drivers, and spreading equipment. B. Nordberg. il Rock Prod 45:36-7+ My '42
War and soil liming. H. A. Huschke. Rock Prod 45:53+ My '42

LIME dust
Making limestone dust. R. S. Torgerson. il diag Rock Prod 45:42-3 My '42

LIME industry
Agstone. il Rock Prod 45:33-84 My '42
How priorities serve lime industry. W. A. Nelson. Rock Prod 45:48+ Jl '42
Lime; properties, uses, statistics, etc. O. Bowles and D. M. Banks. diag U S Bur Mines Information Circ 6884R:1-48 bibliog (p46-8) '41
Maximum price regulation as applied to lime industry. A. F. Meyers. Rock Prod 45:76-8 Jl '42
Open new opportunities for lime; National lime association has developed research program. Rock Prod 45:44-7 Jl '42

LIME kilns
Carbon dioxide from lime kilns. V. J. Azbe. diag Rock Prod 45:57+ S '42
Kiln design for alternate fuels. V. J. Azbe. diag Rock Prod 45:59 O '42
Lime experimentation. V. J. Azbe. Rock Prod 45:49 Ap '42
Pre-heater modernizes rotary kiln; Harefield lime co. H. Andrews. il Rock Prod 45:55-7 Je '42
Refractories for lime recovery kilns. C. A. Brashares. il diags Paper Ind 23:1200-3+ Mr '42
Revolutionary type of lime kiln. T. R. Ellerbeck and W. E. Heffernan. il diag Rock Prod 44:53-5+ D '41

Firing

Gas producer with wood fuel fires rotary kiln. V. J. Azbe. il diag Rock Prod 45:60, 62 Je '42

LIME oil
Limes and lime oil in Colima, Mexico. For Comm W 7:23 Je 6 '42
Mexico's lime oil. For Comm W 7:17 My 16 '42

LIME plants

Electric equipment

Lime production; extensive use of electricity. il Elec R (Lond) 130:647-50 My 22 '42

Equipment

Lime putty; Rockwell lime company. il Rock Prod 45:64-5+ F '42
Magnesia hydrated at Kelley Island's plant. R. J. Schumacher. il plan Rock Prod 45:50-1+ Je '42
Making limestone dust. R. S. Torgerson. il diag Rock Prod 45:42-3 My '42
Pre-heater modernizes rotary kiln; Harefield lime co. H. Andrews. il Rock Prod 45:55-7 Je '42
Using two systems of grinding; production of aggregates for Pennsylvania Turnpike. il diag Rock Prod 45:56-8 My '42
See also
Lime kilns

Safety measures

Why executives are interested in safety work. B. L. McNulty. Concrete (mill sec) 49:286 D '41

LIME putty
Birmingham likes lime putty; new plant of Standard building material co. il Rock Prod 44:65-6 D '41
Control the quality of masonry; Brisch brick co. sells both mortar and brick. il Brick & Clay Rec 100:28-9 F '42
Lime putty; Rockwell lime company. il Rock Prod 45:64-5+ F '42

LIME sulfur
Substitutes for copper and zinc in fungicidal sprays. J. W. Roberts. il Ind & Eng Chem 34:497-8 Ap '42

LIMES
Limes and lime oil in Colima, Mexico. For Comm W 7:23 Je 6 '42

LIMESTONE
Agstone. il Rock Prod 45:33-84 My '42
Alkaline and carbonate intrusives near Bancroft, Ontario. F. Chayes. diag map Geol Soc Bul 53:449-511, pl 1-5 bibliog(p510-11) Mr '42
All crushing by impact; Melvin stone co., Melvin, Ohio. B. Nordberg. flow diag il Rock Prod 45:26-7+ Ag '42
Calcining rates of limestone. R. Gibbs. Rock Prod 45:66-8 My '42
Change over from quarry to mine; Central rock co. opens shaft type limestone mine. B. Nordberg. il diag Rock Prod 45:36-9 S '42
Drilling on a 45-degree slope; New Enterprise stone and lime co. B. Nordberg. il Rock Prod 45:37-9 Jl '42
Lateral gradation in the Seven Rivers formation, Rocky Arroyo, Eddy county, New Mexico. R. L. Bates. bibliog il maps Am Assn Pet Geologists Bul 26:80-99 Ja '42
Limestone consumed in the United States in 1940, by uses; table. Rock Prod 45:61 Mr '42
Limestone in process industries, 1941. Chem & Met Eng 49:105 F '42
Mississippi agricultural limestone. F. F. Mellen. 20p State geological survey, University, Miss. '42
Moving mountain to mill; semi-trailer and trailer combination haul rock from quarry to railway cars. W. H. Cleary. il Rock Prod 45:46-7+ F '42
Neutron logs find porous zones in western Kansas limestones. W. L. Russell and R. B. Downing. Oil & Gas J 41:66 Ag 6 '42
Primary limestone structures of West Virginia. P. H. Price and J. B. Lucke. bibliog map Am J Sci 240:601-16, pl 1 S '42
Selective quarrying; Ohio marble co. il Rock Prod 45:61 F '42
Stratigraphy and insoluble residues of Madison group (Mississippian) of Montana. L. L. Sloss and R. H. Hamblin. bibliog il pls diags map Am Assn Pet Geologists Bul 26:305-35 Mr '42
Tertiary limestones of Pulaski and Saline counties, Arkansas. M. W. Corbin and G. R. Heyl. 28 numb l Arkansas geological survey, Little Rock '41
Usable rock made of soft Miami oolite. il Eng N 129:60-1 Jl 9 '42
See also
Dolomite

LIMITATION of actions
Disposal of old books and papers; effect of Statute of limitations and other enactments in requiring retention of office records. Engineering 153:475 Je 12 '42
Government not barred by time. C. R. Rosenberg, jr. Burroughs Clearing House 26:30 Ap '42

LIMITATION of production. See Production, Limitation of

LIMNOLOGY. See Lakes

LINCOLN, Abraham, 1809-1865
Lincoln's secretary of war, Edwin M. Stanton understood the first rule of war leadership: get tough. Fortune 26:114-15 O '42

LINCOLN, James F., arc welding foundation
Awards. Science 96:397-8 O 30 '42

LINCOLN, James Finney, 1883-
Portrait. Sci Am 167:154 O '42
To keep free enterprise free. Business Week p99 Je 13 '42

LINCOLN electric company
Lincoln defends bonus system; tells how co-operative effort reduced costs; testimony before House naval affairs committee. il Steel 110:36 Je 1 '42
Management-labor cooperation plan that has proved successful. Mach 48:146-7 Ag '42
Wage incentive plan explained. Iron Age 149:102-3 Je 25 '42

LINDE, Carl von, 1842-1934
Sketch. Engineering 153:454 Je 5 '42

LINEMEN
Lineman's handbook. E. B. Kurtz. 2d ed 650p $4 McGraw-Hill '42

LINEMEN'S equipment
Clamp adapted to line, substation use. il Elec W 117:506 F 7 '42
Conservation of linemen's rubber protective equipment. R. M. Godwin. Edison Elec Inst Bul 10:256+ Jl '42
Patch in time; linemen's protective equipment must be conserved; gloves, sleeves and blankets can be repaired. C. A. Coutts. il Nat Safety N 45:26-7+ My '42

LINEN
Flax and its products. Textile Col 64:167-72+ Ap '42
Flax and its products, production and utilization. 30p pa 10c Textile foundation, Washington, D.C. '42
Progress report on the process and utilization of domestic flax. H. Bunger, J. L. Taylor and C. A. Jones. flow diag il Am Dyestuff Rep 30:673-8 D 8 '41
Promoting the linen, domestics, and blanket department. V. M. Putter. J Retailing 17:105-8 D '41
See also
Flax

Testing

Physical properties of cotton, linen and rayon-mixed fabrics with all-linen and all-rayon fabrics. H. M. Fletcher, M. G. Shelden and C. E. Zink. Rayon 22:735-7; 23:29-30 D '41-Ja '42

LINES, Charles William, 1920-1942
Sketch. Science 95:186 F 20 '42

LINING fabrics
Fabrics for military purposes; twill and silesia uniform linings used by the army, navy and marine corps. il Textile World 92:65 Jl '42
Fabrics for national defense; elastiques, silesia lining cloth and woolen suiting. Textile World 91:86 N '41
Fabrics for national defense; wool lining fabric, unbleached cotton drill, and pressed wool felt. il Textile World 91:78 D '41
Finishing O.D. lining cloth; pointers on fulling, scouring, and other operations for this wool-cotton blend. D. Welsh. il Textile World 92:66 Jl '42

LINK-BELT company
Another look. il Mag of Wall St 71:132-3 N 14 '42

LINKS and link-motion
Acceleration in linkwork. W. R. Thomson. 108p $7 Pitman '40
Simplifying graphical solution of linkages. H. A. Bolz. Machine Design 14:68-70 My '42

LINOLEIC acid
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
Solid 10,12-octadecadienoic acid-1; a new conjugated linoleic acid melting at 57°. J. D. von Mikusch. bibliog Am Chem Soc J 64:1580-2 Jl '42

LINOLENIC acid
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
Polymerization of drying oils; comparative rates of polymerization of esters of isomeric octadecatrienoic acids at 275°C. in vacuum. W. C. Ault and others. bibliog Ind & Eng Chem 34:1120-3 S '42

LINOLEUM
Armstrong's handbook for linoleum mechanics. 199p Armstrong cork co, Floor division, Lancaster, Pa. '41

LINOLEUM block printing
Linoleum block printing with color. H. Frankenfield. 2d ed 47p pa 50c C. Howard Hunt pen co, Camden, N.J. '41

LINOTYPE operators
To make keyboards hum, get rhythm! B. N. Fryer. Inland Ptr 108:58 Ja '42

LINSEED. See Flaxseed

LINSEED oil
Argentine linseed. For Comm W 8:25 Ag 15 '42
Conjugated drying oil developed by Woburn. Oil Paint & Drug Rep 141:7+ Ja 26 '42
Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42
Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
How concrete pavements are protected by linseed oil treatments. H. D. Metcalf and C. W. Allen. diag Concrete 50:36-7 Ag '42
Ultraviolet absorption spectra of linseed oil; determination of bodied-*in-vacuo* and blown linseed oil in mixtures with raw linseed oil. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Ind & Eng Chem Anal ed 13:765-8 N 15 '41

Analysis

Component glycerides of linseed oil; segregation by chromatography. F. T. Walker and M. R. Mills. bibliog Soc Chem Ind J 61:125-8 Ag '42; Abstract. Paint Oil & Chem R 104:12 D 3 '42

Prices

Fifty-three years of linseed oil prices, 1889-1941; tabulation. Paint Oil & Chem R 104:14 Ja 1 '42

Statistics

Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter

LINSLEY pond
Studies on Connecticut Lake sediments; the biostratonomy of Linsley pond. E. S. Deevey, jr. diags Am J Sci 240:233-64, 313-24 bibliog(p322-4) Ap-My '42

LINTELS
Construction of smaller buildings; data on lintel loading; with time-saver standards. W. H. Hayes. Arch Rec 91:79-81 My '42

LINTON, Robert, 1870-
Sketch. por Explosives Eng 20:284-5 O '42

LIPE-ROLLWAY corporation
Stock offered. Comm & Fin Chr 155:1839 My 11 '42

LIPIDES
Apparatus for extraction of lipoids from wet tissues. F. E. Holmes. bibliog diags Ind & Eng Chem Anal ed 13:918-22 D 15 '41
Effect of vitamin E on the blood plasma lipids of the chick. H. Dam and E. M. Kelman. Science 96:430 N 6 '42
Lipid fraction of lucerne leaf. H. S. Jefferies. Chem & Ind 61:324-5 Jl 25 '42
Some aspects of algal chemistry. I. M. Heilbron. Chem Soc J p79-89 F '42; Abstract. Soc Dyers & Col J 58:97-8 My '42

Analysis

Electrophotometric microdetermination of phosphorus in lipide extracts. W. M. Sperry. bibliog Ind & Eng Chem Anal ed 14:88-90 Ja 15 '42

LIPOIDS. See Lipides

LIPSTICKS
Paper lipsticks and compacts. il Mod Packaging 15:56-7 My '42

Rating

Lipstick, cosmetic or costume accessory? il Consumers' Research Bul 9:7-8 D '41

LIQUEFACTION of gases. See Gas, Natural—Liquefaction; Gases—Liquefaction

LIQUEFIED petroleum gas
Alternative and auxiliary gases from liquefied petroleum products. C. G. Segeler. Am Gas Assn Proc 1941:100-21 bibliog(p110-11); Same. Am Gas J 155:49-53 N; 25-8, 52-4 bibliog(p53-4) D '41

Approved tables of volume-temperature correction factors for liquefied petroleum gases. Nat Pet N 34 pt2:R240-3 Jl 29 '42

Bottled gas users increasing despite appliance restrictions. il Nat Pet N 34:20-1 Ja 21 '42

Characteristics of liquefied petroleum gas that affect its fire hazard. M. B. Anfenger and O. W. Johnson. Am Pet Inst Proc 22(1):50-3 '41

Complete extraction of liquefied petroleum gases. J. C. Albright. flow diag il Pet Eng 13:131-2 F '42

Demand for liquefied gases continues sharp expansion. Oil & Gas J 41:72 Je 25 '42

Densities of liquefied petroleum gases. bibliog diags Ind & Eng Chem 34:1240-3 O '42

Increasing recovery of liquefied petroleum gas in natural-gasoline plants. J. W. Wilson. bibliog Oil & Gas J 41:66-8+ My 14 '42; Same. Pet Eng 13:40+ Jl '42; Excerpts. il Nat Pet N 34:R170-2+ My 27 '42

Liquefied gas installations banned by WPB's order L-86. Nat Pet N 34:18 Ap 15 '42

Liquefied petroleum gas in 1941. G. G. Oberfell. il Gas Age 89:34-5+ Ja 15 '42; Same. Oil & Gas J 40:22, 24 Ja 15 '42; Excerpts. Chem & Eng N 20:214+ F 10 '42; Chem & Met Eng 49:125 F '42

Natural-gasoline plants are reflecting influence of war. H. S. Norman. il Oil & Gas J 41:30-1+ My 14 '42

Optimum power and economy air-fuel ratios for liquefied petroleum gas. W. H. Paul and M. N. Popovich. (Bul. ser. no. 14) 23p bibliog(p19) Oregon state college, Engineering exp. station, Corvallis '41

Power from butane. J. F. Maher. il Power 86:132 F '42

See also
Gas, Natural—Liquefaction

Bibliography

Selected bibliography on use of LP-gases by gas utility companies. C. G. Segeler. Am Gas J 155:53-4 D '41

Safety measures

American blackout; safety measures in transporting liquefied petroleum gas. F. A. Page. Safety Eng 82:30-1 N '41

Statistics

Sales of liquefied petroleum gases continued gains in 1941. A. T. Coumbe. Ry Age 90:17-19 Ag 27 '42

Transportation

ICC puts OK on conversion of tank cars for haulage of liquefied petroleum gases. Nat Pet N 34:19 Mr 11 '42

LIQUID air
Compressed-air plant and air liquefaction. J. Creevey. Chem Age (Lond) 46:301 Je 20 '42

New process for liquefying air; abstract. J. H. Awbery. Mech Eng 63:913 D '41

LIQUID carbonic company
Preferred stock offered. Comm & Fin Chr 155:921 Mr 2 '42

LIQUID coal. See Coal liquefaction

LIQUID fuel
Liquid pitch fuel. E. B. Davies. diags Engineering 152:398-400 N 14 '41; Same cond. Chem Age (Lond) 45:267-9 N 22 '41

See also
Acetylene
Airplane engines—Fuel
Alcohol as fuel
Automobile engines—Fuel
Automotive fuel
Benzol (commercial benzene)
Coal liquefaction
Diesel engines—Fuel
Fuel, Colloidal
Gas and oil engines—Fuel
Gasoline
Kerosene
Liquefied petroleum gas
Motor bus engines—Fuel
Motor truck engines—Fuel
Naphthalene
Oil burners
Oil fuel

LIQUID hydrogen. See Hydrogen, Liquid

LIQUID level control
Automatic level controllers. M. F. Behar. il diags Instruments 14:326-80 N '41

Lectralevel floatless liquid level control. diag Engineer 174:306 O 9 '42

Liquid level control. H. Seymour. Electrician 129:331-4 S 25 '42

LIQUID level indicators
Corrects for temperature and voltage; patent device for electrical liquid level gages. diag Machine Design 14:138+ F '42

Determination of well capacities from liquid-level data. C. Rodd. bibliog Oil & Gas J 40:47 F 12 '42

Five practical ways to measure liquid level. diags Power 86:553-6 Ag '42

Liquid level gauge. W. H. MacLean. il Pulp & Pa of Can 43:435 My '42

Measure for measure; lever and multiple float type oil gages. il Mod Plastics 19:49 Ja '42

LIQUID meters

See also
Flow meters
Water meters

LIQUID oxygen. See Oxygen, Liquid

LIQUID soap. See Soap, Liquid

LIQUIDS
Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

Crystalline solids and liquids; abstract. J. G. Kirkwood. Science 95:sup10 Mr 13 '42

Determine liquid flow without a meter. W. F. Schaphorst. diag Am Gas J 156:25 Je '42

Determining liquid and vapor densities in closed systems; a precise method. G. H. Wagner, G. C. Bailey and W. G. Eversole. diag Ind & Eng Chem Anal ed 14:129-31 F 15 '42

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Discontinuities in properties of liquid systems. G. Antonoff, M. Chanin and M. Hecht. bibliog J Phys Chem 46:486-91 Ap '42

Energy of immersion of crystalline powders in water and organic liquids. G. E. Boyd and W. D. Harkins. bibliog diags Am Chem Soc J 64:1190-4 My '42

Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

Flow of liquids in the critical region. A. H. Nissan. Instruments 15:197-8 Je '42

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Frictional phenomena; liquids. A. Gemant. bibliog J Ap Phys 12:827-36; 13:22-9 D '41-Ja '42

Ice ghosts; difference between solids and liquids is not sharp. Sci Am 166:246-7 My '42

LIQUIDS—*Continued*

Nomograph for the angles of liquid lenses. D. S. Davis. Ind & Eng Chem 34:442-3 Ap '42

Partition function of a simple liquid. O. K. Rice. J Chem Phys 10:654 O '42

Pressure-area-temperature and energy relations of monolayers of octadecanenitrile. L. E. Copeland and W. D. Harkins. Am Chem Soc J 64:1600-3 Jl '42

Radial distribution function in liquids. J. G. Kirkwood and E. M. Boggs. bibliog J Chem Phys 10:394-402 Je '42

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

Region of critical solution of binary liquids, evidence for an anomalous first-order transition in the system triethyl amine-water. L. D. Roberts and J. E. Mayer. bibliog diags J Chem Phys 9:852-8 D '41

Simplified heat transfer correlation for semiturbulent flow of liquids in pipes. R. H. Norris and M. W. Sims. bibliog diags Am Inst Chem Eng Trans 38:469-90; Discussion. 490-2 Je '42

Superliquid in two dimensions and a first-order change in a condensed monolayer. L. E. Copeland, W. D. Harkins and G. E. Boyd. bibliog J Chem Phys 10:357-65 Je '42

Superliquid in two dimensions and a first-order change in a condensed monolayer. W. D. Harkins and L. E. Copeland. J Chem Phys 10:272-86 My '42

Thermodynamic theory of solutions of two liquids at all concentrations. J. L. Finck. Franklin Inst J 233:51-70 Ja '42

Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

Vapor-liquid equilibria of the system acetone—acetic acid—water. R. York, jr. and R. C. Holmes. bibliog diags Ind & Eng Chem 34:345-50 Mr '42

See also

Boiling points
Emulsions
Equation of state
Evaporation
Films
Fluids
Hydraulics
Hydrodynamics
Inflammable liquids
Liquid fuel
Solution (chemistry)
Solvents
Surface tension
Viscosity
Water
Wetting

LIQUOR laws

Advertising regulations for liquor in monopoly states. il Adv & Sell 35:48+ N '42

Liquor antitrust case. Business Week p47 Ag 8 '42

See also

Alcohol—Laws and regulations

Pennsylvania

Labels to the wall. il Business Week p38 D 20 '41

LIQUOR problem

See also

Alcoholism

LIQUOR traffic

Bonded strategy. Business Week p43 O 24 '42

Fair trade upset; liquor industry's misuse of price maintenance contracts. Business Week p90 O 24 '42

Is liquor allied? all-industry association, started by wholesalers. Business Week p48 N 22 '41

No peace in liquor; efforts of wholesalers to unite industry. Business Week p53 F 28 '42

See also

Beer
Brewing industries
Distilling industries
Liquor laws
Whisky
Wine

Advertising

Liquor industry plans joint campaign to fight dry forces. Sales Management 51:51 Ag 15 '42

Taxation

Bottoms up. Business Week p40-1 N 7 '42

Taxes on alcoholic beverages could pay salaries of 5,000,000 soldiers; pictograph. Sales Management 50:29 Mr 15 '42

LIQUORS

Absorption of various alcoholic beverages. H. Newman and M. Abramson. Science 96:43-4 Jl 10 '42

See also

Apple brandy
Beer
Brandy
Gin
Rum
Whisky
Wine

Analysis

Determination of alcohol by volume in distilled liquors. L. C. Cartwright. Ind & Eng Chem Anal ed 14:237-9 Mr 15 '42

Photometric determination of copper and iron in distilled liquors. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:364-6 Ap 15 '42

LISSAJOUS curves

Cathode-ray method of wave analysis. V. O. Johnson. bibliog il Elec Eng 60:Trans 1032-6 D '41; Abstract. Electronics 15:84-6 Ja '42

Cathode-ray oscillograph for frequency comparisons. diags Electronics 15:94+ Ap '42

LISTERINE

Listerine test; Federal trade commission action against Lambert pharmacal co. Business Week p50, 52 Ap 18 '42

LITHARGE. See Lead oxides

LITHIUM

Fine structure of nuclear energy levels on the alpha-model. C. Kittel. bibliog Phys R 62:109-17 Ag 1 '42

Lithium-bearing silver solder. F. R. Hensel, E. I. Larsen and E. F. Swazy. diags Metals & Alloys 15:962-5 Je '42

Lithium chloride from lepidolite. G. O. G. Löf and W. K. Lewis. bibliog diags Ind & Eng Chem 34:209-16 F '42

Nuclear levels of the compound Li_8. G. Beck and S. Tsien. Phys R 61:379 Mr 1 '42

See also

Lepidolite

Analysis

Polarographic determination of potassium, sodium, and lithium. I. Zlotowski and I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:473-7 Je 15 '42

Separation of lithium from potassium and sodium by treatment of the chlorides with higher aliphatic alcohols. E. R. Caley and H. D. Axilrod. Ind & Eng Chem Anal ed 14:242-4 Mr 15 '42

LITHIUM aluminum silicates

See also

Spodumene

LITHIUM aluminum sulfate

Hydrated lithium aluminum sulfate (lithium alum). H. A. Horan and J. J. Duane. il Am Chem Soc J 63:3533-4 D '41

LITHIUM chloride

Lithium chloride from lepidolite. G. O. G. Löf and W. K. Lewis. bibliog diags Ind & Eng Chem 34:209-16 F '42

Separation of lithium from potassium and sodium by treatment of the chlorides with higher aliphatic alcohols. E. R. Caley and H. D. Axilrod. Ind & Eng Chem Anal ed 14:242-4 Mr 15 '42

Ternary system lithium chloride-dioxane-water. C. C. Lynch. bibliog diag J Phys Chem 46:366-70 Mr '42

LITHIUM compounds

t-Butyllithium. P. D. Bartlett, C. G. Swain and R. B. Woodward. Am Chem Soc J 63:3229-30 N '41

Effect of metallic halides on the reaction of organolithium compounds with alkyl and aryl halides. M. S. Kharasch and W. B. Reynolds. Am Chem Soc J 63:3239 N '41

LITHIUM fluoride
Cartwright-Turner anti-reflection films. Glass Ind 23:228 Je '42

LITHIUM ores
See also
Lepidolite
Spodumene

LITHOGRAPHERS
Chemical poisoning from ammonium bichromate. Inland Ptr 108:69 Mr '42

LITHOGRAPHS
Currier & Ives, printmakers to the American people. H. T. Peters. 41p, 192pl $5 Doubleday '42

LITHOGRAPHY
Substitute for metal printing plates; plastic lithographic mats, Lithomat and Photomat. Pulp & Pa of Can 43:806 S '42
See also
Printing, Offset

LITHOPONE
Industrial uses of chemicals. Oil Paint & Drug Rep 141:60 My 18 '42

Lithopone sales up 16 percent in 1941. Oil Paint & Drug Rep 142:49 Jl 20 '42

Prices

Lithopone prices formally ceiled. Oil Paint & Drug Rep 141:3+ F 2 '42

LITHUANIA

Economic conditions

Economic reconstruction of Lithuania after 1918. A. Simutis. 148p bibliog(p135-8) $1.50 Columbia univ. press '42

Economic history

Economic reconstruction of Lithuania after 1918. A. Simutis. 148p bibliog(p135-8) $1.50 Columbia univ. press '42

LITSEA longifolia
Seed fat of litsea longifolia Bth. & Hk. R. Child and W. R. N. Nathanael. Am Chem Soc J 64:1079-81 My '42

LITTAUER, Lucius Nathan, 1859-
Lucius N. Littauer fund of New York university. Science 95:13 Ja 2 '42

LITTELL, Robert, 1896-
Careless listening or did you see that piece about radio in Reader's Digest by Robert Littell? P. Hollister. Adv & Sell 35:17-18+ S '42

LITVINOV, Maksim Maksimovich, 1876-
Litvinov, he capitalizes a failure. por Business Week p28 N 15 '41

LIVE stock
Is the farm problem ended? war needs bring prosperity to livestock producers. R. P. Crawford. Barron's 22:3 O 12 '42

Livestock production. W. H. Peters. 450p $3.50 McGraw-Hill '42

Preventable disease of animals; 1942 Department of agriculture yearbook. F. Thone. Science 96:sup8-9 Ag 14 '42

Reduction in livestock in Switzerland. For Comm W 7:22 My 9 '42
See also
Agriculture
Cattle industry
Partido system
Poultry
Sheep
Swine

Feeding

See Feeding and feeding stuffs

Statistics

Barnyard census; nation's flocks and herds show spectacular gains. Business Week p73-4 F 28 '42

Transportation

Finds livestock pick-up is okay; I.C.C. approves tariffs. Ry Age 112:266+ Ja 24 '42

South's livestock rates readjusted. Ry Age 113:381+ S 5 '42

LIVE stock fly sprays. See Fly sprays and repellents

LIVER
Diminution in ability of the liver to inactivate estrone in vitamin B complex deficiency. M. S. Biskind and G. R. Biskind. Science 94:462 N 14 '41
Increased liver arginase on administration of adrenocortical and corticotropic hormones. H. Fraenkel-Conrat and H. M. Evans. bibliog Science 95:305-6 Mr 20 '42
Isolation of a new carotenoid from rat liver. C. Carruthers and F. Urban. Science 96:279-80 S 18 '42
Significance of choline as a dietary factor. C. H. Best. bibliog Science 94:523-7 D 5 '41

Cirrhosis

Histogenesis and repair of the hepatic cirrhosis in rats produced on low protein diets and preventable with choline. R. D. Lillie and others. bibliog Pub Health Rep 57:502-8 Ap 3 '42
Possible cure for liver cirrhosis. J. Stafford. Science 94:sup 10 D 5 '41
Treatment of dietary liver cirrhosis in rats with choline and casein. J. V. Lowry and others. bibliog Pub Health Rep 56:2216-19 N 14 '41

LIVER extracts
Chemical composition of liver preparations. J. Erdos. bibliog Science 96:141-2 Ag 7 '42
Microbiologic assay of natural pantothenic acid in yeast and liver; influence of clarase digestion. E. Willerton and H. W. Cromwell. bibliog Ind & Eng Chem Anal ed 14:603-4 Jl 15 '42

LIVER oils. See Cod liver oil; Fish oil; Shark liver oil

LIVING rooms
What tenants want in the living room; study by E. Coit. plans Arch Rec 91:76 Ap '42

LLOYDS, London
Move against Lloyds is made in Tennessee. Nat Underw 46:7 Jl 16 '42
Position of Lloyds on war covers. Nat Underw 45:29 D 18 '41
Selling insurance in Lloyds of London to Utah citizens. Weekly Underw 146:219 Ja 24 '42
War risks discontinued by Lloyd's nonmarine. Weekly Underw 145:1392 D 20 '41

LLOYDS bank
Address of the chairman posted to the shareholders. J. W. B. P. Wardington. Economist 142:121-3 Ja 24 '42

LOAD (electric plants). See Electric plants (central stations)—Load

LOAD (mechanics)
Bending settlement of a slab resting on a consolidating foundation. M. A. Biot and F. M. Clingan. J Ap Phys 13:35-40 Ja '42
Concrete under sustained working loads; evidence that shrinkage dominates time yield. G. A. Maney. bibliog Am Soc T M Proc 41:1021-30; Discussion. 1031-7 '41
Deflection of beams under simultaneous axial and transverse loads. A. G. Strandhagen. diags Product Eng 13:396-8 Jl '42
Design charts for tubes subjected to axial loads and combined stresses. W. C. Clayton. Aviation 41:169-70, 175 Jl '42
Design of eccentrically loaded concrete columns. J. C. Spotts. diags Civil Eng 12:275-6 My '42
Design of sections for low loads. H. A. Illing. Machine Design 14:75-6 Ja '42
Electric strain gages for measuring loads on machine parts. F. Mittelberger. il diags Product Eng 13:337-9 Je '42
Fatigue and static load tests of a high-strength cast iron at elevated temperatures. W. L. Collins and J. O. Smith. il diags Am Soc T M Proc 41:797-807; Discussion. 808-10 '41
How to figure beams. P. Swain. diags Power 86:513, 588, 668, 746, 826 Jl-N '42
Load-bearing characteristics of landfills. R. Eliassen. il diag Eng N 129:369-71 S 10 '42
Load imposed on derrick. G. M. Stearns. diags Oil & Gas J 41:47 Jl 23 '42

Load relations in bolted joints. T. J. Dolan. diags Mech Eng 64:607-11 Ag '42

LOAD (mechanics)—*Continued*

Loads and deflections of phosphor-bronze round-wire helical springs; data sheets. J. I. Hommel, comp. Mach 49:155 O; 213 N '42

Notch sensitivity of welds under repeated loading. H. L. Daasch. bibliog il diags Welding J 21:sup60-4 Ja '42

Numerical procedure for computing deflections, moments, and buckling loads. N. M. Newmark. bibliog diags Am Soc C E Proc 68:691-718; Discussion. B. Johnston. 783-7 My '42; reprinted without discussion Ill U Eng Exp Sta Reprint Ser 23 pa 15c

Pneumatic loading of soil samples. E. J. Kilcawley. il Civil Eng 12:393-4 Jl '42

Proposed live-load reduction formula for buildings. C. W. Barber. Civil Eng 12:194-5 Ap '42; Discussion. J. Jones. 12:278 My '42

Resistance of soft fill to static wheel loads. W. W. Pagon. il map Am Soc C E Proc 68:237-54 F '42

Static load tests for bearing piles. V. Hansen and F. N. Kneas. il Civil Eng 12:545-7 O '42

Stress concentrations in plates loaded over small areas. H. M. Westergaard. bibliog Am Soc E Proc 68:509-34 Ap '42; Discussion. 68:1225-31, 1433-8, 1629-45 S-N '42

Stresses in, and the deflexion of, circular flat plates, with a central hole, under normal forces. S. Labrow. diags Inst Mech Eng J & Proc 145:Proc 115-25 Je '41; Discussion. 146:Proc 136-40 Ja '42

Study of some of the factors affecting the resistance of cast iron to deflection under load at high temperatures. L. W. Bolton. diag Iron & Steel Inst J 144:89-104, pl 9-14 no 2 '41; Same, without pls. Engineer 172:172-4 S 12 '41; Same cond. Engineering 152:97-100 Ag 1 '41; Abstract. Metal Prog 40:966+ D '41

Table of fixed-end moments. C. J. Posey. Eng N 127:671 N 6 '41; Discussion. 128:502 Mr 26 '42

Timber friction pile foundations. F. M. Masters. il diags Am Soc C E Proc 67:1657-82 N '41

Transfer of load due to braking in tractor-trailer combinations. P. M. Heldt. diag Automotive Ind 85:40-1 D 15 '41

Universal joints; how to determine loads by vectorial analysis. L. D. Hagenbook and J. H. Holstein. il diags Product Eng 13:334-6 Je '42

When springs are statically loaded. A. M. Wahl. il charts Machine Design 14:67-71 Jl '42

LOAD factor

Control of the domestic load. P. Schiller. diags Inst E E J 88 pt 2:373-89; Discussion. 389-411 O '41

Domestic load development; maximum demand and load factor. P. Schiller. Elec R (Lond) 129:509-11 N 7 '41

Idle electric generating capacity; put it to work in war production. Edison Elec Inst Bul 10:249-55+ Jl '42

See also

Demand meters

Electric plants (central stations)—Load

LOAD line

Draft correction chart. A. R. Anderson. Marine Eng 47:117-18 My '42

LOADING and unloading

Border lines of automobile liability coverage, loading and unloading claims. R. Alexander. Weekly Underw 147:460-3 Ag 29 '42

Materials handling with industrial trucks. W. S. McCann. il Paper Ind 24:152-5 My '42

See also

Coal loading machines

Conveying machinery

Freight handling

Mechanical handling

Cars

Floating load is used to eliminate shock in shipping. il Ry Age 112:1054-5 My 23 '42

Floating the load; cuts handling and shipping damage. F. E. Stemm. il Steel 110:70 Je 29 '42

40-ton electro-magnet on the L.M.S. railway. il Engineer 172:341 N 14 '41

Handling time cut 96 per cent; receiving and storing sheet steel at plant of A. S. Campbell co. il Steel 110:82+ Ap 6 '42

How to stack and load corrugated shipping boxes. diags Steel 111:81+ O 19 '42

Increasing box car payloads; Evans utility loader. il Manuf Rec 111:45+ O '42

Increasing coal car capacity by shaking down the load; experiments with loading bin subjected to vibration. G. F. MacGowan. Ry Age 112:1149-50 Je 13 '42

New loader increases freight car utilization; Evans utility loader. il Iron Age 149:51 Je 18 '42

Unitloader used in moving war products. il Ry Age 112:488 Mr 7 '42

Motor trucks

Loading gravel by tractor; with cost data. D. R. Stevens. il Pulp & Pa of Can 43:319-22 Mr '42

Truck trade served at Jefferson no. 20 mine by 4-compartment storage and loading plant. il Coal Age 47:57 My '42

Ships

Cold weather ore and coal handling safeguarded by electric strip heaters. M. Greenler. diags Steel 110:82+ Mr 16 '42

Draft correction chart. A. R. Anderson. Marine Eng 47:117-18 My '42

Loading pulpwood ships by conveyor on scow. il Pulp & Pa of Can 43:525-6 Je '42

Ship-loading by ropeway. il diags plan Mech Handling 29:43-5 Mr '42

Ship loading plant. il Mech Handling 29:107-8 Je '42

Unloading loose material from ships; patent specification. diags Mech Handling 29:93-4 My '42

See also

Stowage

LOADING machines

Mechanical loaders help solve a war problem; Tri-state zinc mining district. W. F. Netzeband. il diags Min Cong J 28:18-20 N '42

See also

Coal loading machines

LOANS

Automobile loan business. W. Luftig. 173 numb l pa $3.50 Business information service bur, New York '41

Fixed value loans in Germany; an experiment during the runaway inflation. K. Koranyi. Comm & Fin Chr 155:2034-5 My 28 '42

See also

Building loans

Credit

Debts, Public

Government loans and grants

Government loans to industry

Insurance, Life—Policy loans

Interest

Investments

Reconstruction finance corporation

Securities

LOANS, Bank

Age limit on loans. R. B. Stewart. Banking 34:25 D '41

Basic wartime credit problems; symposium, New York bank credits clinic of March 4-6. Banking 34:80-3 Mr; 70 Ap '42

Charged off loans collected by systematic handling. J. L. Reese. Bankers Mo 58:552-3 D '41

Credit policies in a war economy. G. K. Morris. Burroughs Clearing House 26:16-18+ My '42

Current credit outlook. W. B. French. Banking 34:83 Je '42

Diversified loans as credit solution. J. F. Cover. Bankers M 144:549-50 Je '42

Don't turn away good loans; provisions of Regulation W. Bankers Mo 59:468 O '42

Farm credit policy under present conditions. S. Nirdlinger. il Burroughs Clearing House 26:13-15+ Ja '42

Fewer new loans. Business Week p63+ N 29 '41

LOANS, Bank—*Continued*
Financing food-for-freedom; credit clinic of the American bankers association. Burroughs Clearing House 26:11 Ap '42
Food for freedom gets ABA support. Comm & Fin Chr 155:1154 Mr 19 '42
Four factors influencing credit; conditions brought about by the war. C. M. Flora. Bankers M 144:551 Je '42
Four rights; competition in consumer loans. C. W. Phelps. Banking 35:32 O '42; Reply. A. A. Friedrich. 35:27+ N '42
How Regulation W will affect banking. C. W. Flora. Bankers M 144:26-31 Ja '42
How we successfully compete with other credit agencies. E. W. Rossiter. Bankers Mo 58:566-7+ D '41
Industrial banking. Economist 141:sup5-6 S 20 '41; Same abr. Bankers M 143:442 N '41
Lending operations under Regulation W discussed at N.Y. state bankers meeting. L. B. Allen. Comm & Fin Chr 155:2136 Je 4 '42
Let's teach people to borrow—at the banks. F. L. O'Hair. Bankers Mo 58:544+ D '41
Loans for soldiers and sailors. W. F. Kelly. Banking 35:47 S '42
Local banks and farm business. S. J. Linck. Bankers M 143:535 D '41
Many advantages in participation credits. W. S. Woods. Bankers M 144:410-12 My '42
May 6th revisions of Regulation W. S. Koptis. Bankers M 145:36-40 Jl '42
Mortgage loans in the emergency; clinic sponsored by Savings division, American bankers association. Banking 34:84-6 D '41
Must study borrowers business problems; abstract. A. L. Moler. Bankers M 144:454-5 My '42
Nebraska bankers study competing agencies. E. W. Rossiter. Bankers Mo 59:205-7 My '42
New real estate loans. H. R. Templeton. Banking 35:22 O '42
NY savings banks made many more mortgage loans in 1941. Comm & Fin Chr 155:565 F 5 '42
Official information on current FHA loans. T. Zener. Bankers Mo 59:456-7 O '42
Practical operation of a small bank's credit function. J. Wetzel. 113p bibliog(p109-11) pa $1.75 Bankers pub. co, Cambridge, Mass. '41
Prospects for loans to shirt manufacturers. W. V. Stegman. Bankers Mo 59:396-8+ S '42
Small business needs a friend. T. H. Reed. Banking 35:17-19, 50 Jl '42
Use of credit for accumulation of inventories. M. S. Eccles. Fed Res Bul 28:645-6 Jl '42
War modifies old credit ratios; abstract. C. M. Smits. Bankers M 145:270-1 S '42
We lend farmers money to buy machinery. J. G. Edmiston. Bankers Mo 59:116+ Mr '42
We tell our customers—get out of debt! preventing the trouble that followed the first World war; Bank of Huntington, Hartington, Neb. E. W. Rossiter. Bankers Mo 59:155-6 Ap '42
Winning address; banker's credit responsibility in the present war economy. J. W. Clay. Am Inst Banking Bul 24:18 Jl '42
See also
Agricultural credit
Brokers' loans
Credit, Bank
Insurance—Credit aspects
Morris plan banks

Collateral

Accounts receivable. R. L. Redheffer. Banking 35:56-7 S '42; Excerpts. Bankers M 145:344-5 O '42
Additional loans allowed with field warehouse protection. J. Y. Beaty. map Bankers Mo 59:258-60+ Je '42
Advantage in accounts receivable financing; abstracts. H. C. Culshaw. Comm & Fin Chr 155:1711 Ap 30 '42; Bankers M 144:453-4 My '42
Aids in financing war goods. C. Djorup. Banking 34:27 Je '42
ABA manual on accounts receivable loans. Comm & Fin Chr 156:1711 N 12 '42
Assigned accounts borrowing. H. C. Culshaw. Banking 35:57-8 S '42
Bank factoring of accounts receivable. C. B. Wilber. Bankers M 144:471-6 Je '42
Bank lends twice cash value—for a consideration. Nat Underw (Life ed) 46:3+ S 18 '42
City bank helps correspondent set up field warehouse loan. F. M. Horton. Bankers Mo 59:162+ Ap '42
Collateral of third party. C. R. Rosenberg, jr. Burroughs Clearing House 26:27 Jl '42
Court decisions; must bank sell collateral? take note, but not contract. C. R. Rosenberg, jr. Burroughs Clearing House 26:29+ F '42
Defaulted insurance loans. Banking 34:47 Ap '42
Field warehouse financing. C. Djorup. Banking 35:59-60+ S '42; Excerpts. Bankers M 145:341-2 O '42
Financing coal dealers. Banking 35:54 Jl '42
Hitch develops in insurance loans at banks; restrictions on consumer credit. Nat Underw (Life ed) 46:3 Je 26 '42
How warehousemen are serving industry. S. H. Cooke. Bankers M 144:20-5 Ja '42
Larger inventories with field warehousing. Bankers Mo 59:448-9 O '42
Law for the layman; pledged collateral. M. L. Hayward. Barron's 22:20 Ja 26 '42
Loans on accounts receivable; abstract. R. B. Cox. Bankers M 144:458 My '42
Sale of pledged collateral. C. R. Rosenberg, jr. Burroughs Clearing House 26:29+ S '42
There may be some new loans in your credit files; stored commodities. Bankers Mo 59:58-9+ F '42

Defense loans

All-out credit strategy. O. McKee. Banking 34:23+ F '42
ABA issues manual on war loan procedure. Comm & Fin Chr 155:2408 Je 25 '42
Bank loans for war production increase. Comm & Fin Chr 156:723 Ag 27 '42
Bank stocks; General Motors credit, largest bank loan ever obtained by a private corporation. Comm & Fin Chr 156:1622 N 5 '42
Bank stocks; Regulation V loans and credit expansion. Comm & Fin Chr 156:1070 S 24 '42
Banks must furnish large part of defense funds; abstract. L. D. Edie. Bankers M 143:458-60 N '41
Cause: national defense; effect: bank loans. K. B. Morrish. Am Inst Banking Bul 24:9-10 Ja '42
Cutting credit corners. H. Bratter. Banking 34:19-21, 68-9 My '42
Defense leadership; how a 108-year-old Boston bank has pioneered in helping clients obtain defense work. R. B. Cox. il Burroughs Clearing House 26:11-13+ D '41
Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42
Financing defense contracts; abstract. B. D. Nash. Bankers M 143:461-2 N '41
Financing war production. M. A. Brown. il Banking 35:14-15, 154-5 S '42; Excerpts. Bankers M 145:342-4 O '42
Funds for war; Chrysler open credit with 175 banks. Business Week p71 F 28 '42
Government-guaranteed loans to war plants; four months. Comm & Fin Chr 156:526 Ag 13 '42
Information from banks on Regulation V. Burroughs Clearing House 26:4-5 Je '42
Keep small manufacturers in business; abstract. R. O. Byerrum. Bankers M 144:457 My '42
Limitations on national bank loans. Fed Res Bul 28:534 Je '42
New York state banking board relaxes restrictions on bank financing defense. Comm & Fin Chr 155:425 Ja 29 '42
Opportunity in Regulation V. H. V. Odle. il Burroughs Clearing House 26:20-2+ Je '42
Our move; guaranteed war loans. W. R. Kuhns. Banking 34:75 Je '42

LOANS, Bank—Defense loans—*Continued*

Our powerful credit weapon. R. A. Foulke. il Banking 34:19-22+ F '42

Producers' loans; War Department program uses government guarantee to extend credit. Business Week p77+ Ap 18 '42

Raising V funds; U.S.-guaranteed loans aid growing number of contractors. Business Week p93-5 Jl 25 '42

RFC revises rates on defense loans made in conjunction with banks. Comm & Fin Chr 155:485 Ja 29 '42

Regulation V gets started. H. Bratter. Banking 34:24-6 Je '42

Small business should get bank financing to fill defense contracts. C. B. Henderson. Comm & Fin Chr 155:1154 Mr 19 '42

This husky infant, Regulation V. K. R. Cravens. Banking 35:26+ N '42

War finance; factory production. Banking 35:12-16 sec 2 Jl '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:306-42 O '42

Income tax loans

Another income tax plan; Morris plan bank of Virginia. Bankers M 144:178 F '42

Bank offers plan for paying 1942 income tax month by month; Peoples-Pittsburgh trust company. Comm & Fin Chr 155:124 Ja 8 '42; Same. Bankers M 144:156 F '42

Bankers see new opportunities in Title II; loans for coal purchases and insulation. G. Dumars. Bankers Mo 59:208-9+ My '42

Borrowing to pay income taxes. Bankers M 144:360 Ap '42

Borrowing to pay taxes; economic aspect. Bankers M 144:282+ Ap '42

Criticizes borrowing to pay income taxes. Comm & Fin Chr 155:1048 Mr 12 '42

Instalment payment

Consumer credit and the war. J. Burgess. Bankers M 144:266-9 Mr '42

Instalment loans of insured banks, Dec. 31, 1941. Fed Res Bul 28:438-40 My '42

Reserves; balance in differential account set up upon purchase of instalment paper. Fed Res Bul 28:302-3 Ap '42

Slow payments on note. C. R. Rosenberg, jr. Burroughs Clearing House 26:27 Mr '42

Statistics of consumer loans at commercial banks. Fed Res Bul 28:992-4 O '42

Small loans

Advantages of separate personal loan department. il Burroughs Clearing House 26:11 My '42

Banks getting larger share in consumer credit financing; abstract. C. E. Cochran. Bankers M 144:367 Ap '42

Central Trust advertises a budget control plan. Bankers M 144:439-40 My '42

Clear price tags for small loans. W. B. French. Banking 35:96+ N '42

Code of consumer credit principles. Bankers M 145:256 S '42

Consumer credit an important banking function; abstract. J. Burgess. Bankers M 144:174-5 F '42

Consumer credit and the war. J. Burgess. Bankers M 144:266-9 Mr '42

Consumer credit phantasia. R. Steffan. Banking 34:68-9 Ap '42

Don't turn away good loans; provisions of Regulation W. Bankers Mo 59:468 O '42

Further contraction of credit to individuals. H. D. Ralph. il Burroughs Clearing House 26:18-19 Je '42

Instalment loans today. C. A. Bimson. Banking 35:50 S '42

Keeping abreast of consumer credit. H. H. Christensen. il Burroughs Clearing House 26:22-4+ Ag '42

Millions who handle billions; consumer credit and budgeting service. R. H. Whitehead. Bankers M 144:208-10 Mr '42

Monthly interest charges on small credits. H. Haines. Bankers M 143:377-9 N '41

New consumer credit rules. W. B. French. Banking 34:83 D '41

New installment loan regulations explained to customers. B. S. DuVal. Bankers M 144:538 Je '42

Personal credit's dramatic story; National city bank of New York venture in democratic finance. Bankers M 144:162-3 F '42

Personal loans and retail instalment paper of insured banks, June 30, 1942. Fed Res Bul 28:995-6 O '42

Personal loans in wartime. R. Steffan. Banking 35:54 S '42; Excerpts. Bankers M 145:348-9 O '42

Small town bank makes profits on consumer financing. G. A. Haven. il Bankers Mo 59:10-11 Ja '42

Statistics of consumer loans at commercial banks. Fed Res Bul 28:992-4 O '42

Today's consumer credit hazards. K. R. Wells. Banking 34:61-2 Ja '42

War's effects on consumer lending. J. H. Lucas. Bankers M 144:389-96 My '42

We make loans for car repairs. E. G. Barcome. Bankers Mo 59:394-5 S '42

Statistics

All banks in the United States, loans and investments. Published in monthly numbers of Federal reserve bulletin

Business loans steadily increasing; loans outstanding of weekly reporting member banks in 101 leading cities, June 1937-Sept. 1941; chart. Dun's R 49:36-7 O '41

Condition of all member banks, classification of loans and investments. Published in monthly numbers of Federal reserve bulletin

Instalment loans of insured banks, Dec. 31, 1941. Fed Res Bul 28:438-40 My '42

Personal loans and retail instalment paper of insured banks, June 30, 1942. Fed Res Bul 28:995-6 O '42

Regional distribution of commercial loans. Fed Res Bul 28:882-91 S '42

Statistics of consumer loans at commercial banks. Fed Res Bul 28:992-4 O '42

Survey of commercial loans at member banks. Fed Res Bul 28:768-73 Ag '42

LOANS, Compulsory

Compulsory loans in war financing; England, Canada, and New Zealand may have set an example. A. G. Buehler. Harvard Business R 21 no 1:115-23 [S] '42

LOANS, Foreign

China aid to be reserve for notes and bond backing. Comm & Fin Chr 155:1348 Ap 2 '42

Congress votes China loan; FDR pledges aid. Comm & Fin Chr 155:671 F 12 '42

Cuban tax schedule for amortization of Export-Import loan. Comm & Fin Chr 154:1660 D 25 '41

Great Britain pays RFC. Comm & Fin Chr 156:453 Ag 6 '42

Highway loan of $30,000,000 to Mexico. For Comm W 5:18 D 6 '41

How British loan collateral has been handled; performance of insurance stocks. F. L. Brokaw. Weekly Underw 147:263 Ag 8 '42

Loan of Brazilian government to Paraguay. For Comm W 9:21 O 3 '42

Loan provisions of the Neutrality act. Comm & Fin Chr 155:746+ F 19 '42

President Roosevelt reports first year's lend-lease aid totaled $2½ billion. Comm & Fin Chr 155:1152 Mr 19 '42

Text of U.S.-China financial aid pact. Comm & Fin Chr 155:1545 Ap 16 '42

U.S.-Brazil sign pacts on strategic materials. Oil Paint & Drug Rep 141:3 Mr 9 '42

U.S.-China accord on aid. Comm & Fin Chr 155:1260 Mr 26 '42

United States-Chinese agreement concerning economic and financial aid. Int Labour R 45:534-5 My '42

See also

Debts, Public
Export-import bank
  of Washington
Investments, Foreign

LOANS, Small

Consumer credit phantasia. R. Steffan. Banking 34:68-9 Ap '42

LOANS, Small—*Continued*

FHA helping in change-over to coal. Am Bld 64:14 S '42

Personal finance loans turn down. Barron's 22:1 Jl 20 '42

Should savings and loan associations make personal loans? S. Stern; R. R. Glenn. Bankers M 144:539-40 Je '42

Small loan problem of the Carolinas; with a commentary on regulation in Virginia. W. H. Simpson. 154p bibliog(p115-20) $2 P C press, Clinton, S.C. '41

Surveying installment loan possibilities in 1942. M. R. Bone. Burroughs Clearing House 26:3-4 Ap '42

See also

Credit unions

Household finance corporation

Loans, Bank—Small loans

Morris plan banks

Laws and regulations

Combating the loan shark. P. H. Sanders, ed. (Law and contemporary problems, v. 8, no. 1) 206p pa $1 School of law, Duke univ, Durham, N.C. '41

Consumer credit; interpretations of Regulation W. Fed Res Bul 28:532 Je '42

May 6th revisions of Regulation W. S. Koptis. Bankers M 145:36-40 Jl '42

Regulation of consumer credit. Fed Res Bul 28:399-409 My '42

Regulation W as revised effective May 6, 1942: consumer credit. Fed Res Bul 28:410-23 My '42

Small loan acts and automobile insurance; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:26-8 F 5 '42

Small loan laws of the United States. 4th ed 24p bibliog(p23-4) pa 10c Pollak foundation for economic research, Newton, Mass. '41

LOBBYING

Politics, parties and pressure groups. V. O. Key, jr. 814p $3.75 Crowell '42

LOBSTERS

Cuba's lobster exports, 1938-1940. For Comm W 8:22 Jl 25 '42

LOCAL anesthetics. See Anesthetics, Local

LOCAL government

Economies noted in survey of local government operations. Comm & Fin Chr 156:1704 N 12 '42

Municipal news; only a small decrease in units of local government in 10 years. Comm & Fin Chr 156:976 S 17 '42

See also

County government

Municipal government

State governments

Great Britain

Regional economics. Economist 142:816-17 Je 13 '42

LOCATING (machine work)

Die-shoe with adjustable stops. J. Schlinger. diags Mach 49:168-9 S '42

Gage for checking eccentric location of a hole. diags Mach 48:145-6 Je '42

Locating holes with gage-blocks and indicator. P. J. Adrian. diags Mach 48:146-7 Je '42

See also

Centering (machine work)

Dividing (machine work)

LOCATION in business

See also

Factories—Location

LOCKERS, Public

See also

Cold storage lockers

LOCKHEED aircraft corporation

Annual report. Comm & Fin Chr 155:1409 Ap 6 '42

Final steps in Lockheed-Vega merger. Comm & Fin Chr 155:158 Ja 10 '42

Listing of additional stock. Comm & Fin Chr 154:1493 D 13 '41

Record output, etc. Comm & Fin Chr 156:1053 S 21 '42

LOCKING devices

Lever mechanism for operating a locking pin and clamping bolts in one movement. F. Server. diags Mach 48:132 Je '42

Locks for index mechanisms. J. J. Jergens. diags Am Mach 85:1312-13 D 24 '41

LOCKS (hydraulic engineering)

Hydraulic conditions at approach to a lock and dam; model-prototype conformity. W. J. Hopkins. il diags Am Soc C E Proc 68:1369-77 O '42

Interesting lock construction; model-prototype conformity. M. E. Nelson and J. J. Hartigan. diags Am Soc C E Proc 68:1301-24 O '42; Discussion. 68:1840-2 D '42

Lock work at Panama modified by order. Eng N 128:885 My 28 '42

Panama Canal hydraulics laboratory. F. W. Edwards. il plan Civil Eng 12:137-9 Mr '42

LOCKS and keys

Manual of locksmithing. S. A. McLean. 425p $10 Stanley A. McLean, Mercantile bldg, Denver '41

Unlocking adventure. C. Courtney and T. Johnson. 335p $2.50 McGraw-Hill '42

LOCOMOTIVE boilers

Boiler feed water and the locomotive engineer. J. F. S. MacDonald. Engineer 173:539-41 Je 26 '42

Locomotive boiler questions and answers. G. M. Davies. Published in monthly numbers of Railway mechanical engineer

Prevention of cinder cutting in locomotive boilers; master boiler makers' assn. committee report. Ry Mech Eng 116:447-50 N '42

Treating boiler feedwater chemically. F. B. Horstmann. il Ry Mech Eng 116:458-61 N '42

Treatment of locomotive boiler feed water reduce demands for repair materials. W. A. Pownall. Ry Mech Eng 116:165-6 Ap '42

Control

Electric control for steam boilers on Diesel-electric and straight electric locomotives. E. H. Burgess. il diag Elec Eng 61:Trans 604-6 Ag '42

Failure

Boiler makers' association report on effect of high temperatures. R. McBrian. il Ry Mech Eng 115:513-15 D '41

Boiler of track locomotive explodes while train is in tunnel. il Locomotive 44:79 Jl '42

Study of defects in high-pressure boilers; Master boiler makers' assn. committee report. diags Ry Mech Eng 116:450-3 N '42

Track locomotive boiler explosions take heavy toll. Locomotive 44:107-8 O '42

Firing

Combustion train of the steam locomotive; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:483-4 N '42

Conditions required to burn screenings successfully. F. P. Roesch. Ry Age 111:950-1; Discussion. J. W. Hulson. 951 D 6 '41

Firing practice on coal-burning and on oil-burning locomotives; Railway fuel and traveling engineers' assn. committee reports. Ry Mech Eng 116:484-6 N '42

Relation of coal sizes to fuel economy; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:489-91 N '42

Manufacture

Master boiler makers association report on application of rivets. il diags Ry Mech Eng 116:101-4 Mr '42

What about the all-welded boiler? Delaware & Hudson boiler approaches end of five-year trial. il Ry Mech Eng 116:258-60 Je '42

Repair

Application and maintenance of flues and tubes; Master boiler makers' assn. committee report. diags Ry Mech Eng 116:453-6 N '42

LOCOMOTIVE boilers—Repair—*Continued*
Boiler patch calculation. L. R. Haase. diags Ry Mech Eng 116:385-6 S '42
Boiler patching requires care and good workmanship. W. N. Moore. diag Ry Mech Eng 116:223-4 My '42

LOCOMOTIVE engineers
Control of locomotive management. J. F. S. MacDonald. Engineer 173:350-1 Ap 24 '42
Factors affecting locomotive operation; how the engineman can help. O. E. Allen. Ry Mech Eng 116:155-6 Ap '42

LOCOMOTIVE fireboxes
Boiler makers' association report on effect of high temperatures. R. McBrian. il Ry Mech Eng 115:513-15 D '41
Prevention of cinder cutting in locomotive boilers; master boiler makers' assn. committee report. Ry Mech Eng 116:447-50 N '42
Simplified method of firebox repair. E. H. Heidel and H. W. Chandler. il diags Ry Mech Eng 116:177-9 Ap '42

LOCOMOTIVE firemen
Eastern railroads refuse firemen's wage bid. Ry Age 113:381 S 5 '42
Firemen propose pay base change. Ry Age 113:33 Jl 4 '42

LOCOMOTIVE industry

Finance

Baldwin Locomotive dividend expected. Barron's 22:4 O 5 '42

Securities

Baldwin locomotive bonds; interesting for income and appreciation. Comm & Fin Chr 154:1120 N 20 '41
Speculative possibilities in Baldwin 6s. Barron's 22:19-20 F 9 '42

Statistics

Estimate steel needs for 1942; railroads and car locomotive builders. Ry Age 112:262-3 Ja 24 '42

Great Britain

Engineering outlook. Engineering 153:244 Mr 27 '42

LOCOMOTIVE inspection, Bureau of. See Interstate commerce commission—Bureau of locomotive inspection

LOCOMOTIVE maintenance officers' association
Officers and reports. pors Ry Mech Eng 116:470-1 N '42

LOCOMOTIVE shops
Substitution and conservation of materials in locomotive shops; Master boiler makers' assn. committee report. Ry Mech Eng 116:457-8 N '42
Time and material saving ideas in the field of railroad practice. H. H. Moor and others. il diags Ry Mech Eng 116:171-84 Ap '42
See also
Locomotives—Repair
Railroads—Shops

Equipment

Air-operated flue-testing machine. il Ry Mech Eng 116:356-7 Ag '42
B & O concentrates production in one shop. W. S. Eyerly. il Mach 48:184-8 Ap; 117-18 My '42
Convenient equipment for magnaflux testing. il Ry Mech Eng 115:535-6 D '41
Grinding, a practical aid to war production; analysis of comparative cost of finishing locomotive parts. H. H. Moor. il Ry Mech Eng 116:171-5 Ap '42
Horizontal driving-box press. il Ry Mech Eng 116:383-4 S '42
Keeping the New York Central's 4000 locomotives in running order. C. O. Herb. il Mach 48:150-7 Ap; 121-5 Ag; 49:137-41 S '42
Locomotive bolts machined quickly on Gisholt 1L turret lathes. J. E. Carroll. il Am Mach 86:500-1 My 28 '42
Louisville & Nashville equips Diesel repair shop. il Ry Mech Eng 116:352-4 Ag '42
Milwaukee machine shop devices. il diags Ry Mech Eng 116:76-7 F '42
Practical ideas from practical men that make hard jobs easy. J. R. Phelps. il diags Ry Mech Eng 116:180-3 Ap '42
Sacramento locomotive shop kinks. il Ry Mech Eng 116:427-31 O '42
Santa Fe prepares for wartime traffic. il Mach 48:172-3 Ap '42
Sedalia locomotive shop kinks. il Ry Mech Eng 116:318-19 Jl '42
Shoe and wedge milling fixtures. il Ry Mech Eng 116:226-7 My '42
Shop tool wagon. il Ry Mech Eng 116:389 S '42
Small power driven hydraulic press. il diag Ry Mech Eng 116:387-8 S '42
Tool storage in metal cabinets. il Ry Mech Eng 116:31 Ja '42

LOCOMOTIVE terminals
Cut down engine-terminal time; suggestions. A. A. Raymond and others. Ry Mech Eng 116:167-70 Ap '42
Modern sand plant incorporates many new features; Western Maryland engine terminal. il Ry Age 112:255-6 Ja 24 '42
Pere Marquette has rehabilitated its Canadian division; new engine terminal at St Thomas, Ont. plan Ry Age 113:369-71 S 5 '42
See also
Locomotive shops

Layout

Streamlining the engine terminal. A. A. Raymond. Ry Mech Eng 116:167-70 Ap '42

LOCOMOTIVE works
From locomotives to tanks; American locomotive co. F. J. Oliver. il Iron Age 149:64-8 My 7 '42

Equipment

Baldwin locomotives for long hauls and switching service. A. G. Cole. il Mach 48:166-71 Ap; 148-52 Je '42
Building huge locomotives to help win the war; American locomotive co. R. B. McColl. il Mach 48:126-33 Ap '42
Diesel-electric switchers for war-production industries. F. H. Craton. il Mach 48:158-65 Ap '42

LOCOMOTIVES
Australian railway builds own locomotives. il Ry Age 113:701 O 31 '42
Can more locomotive hours be made serviceable? Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:486-7 N '42
Canadian locomotive experiences. E. H. Livesay. diags Engineer 174:198-200, 210-13, 230-3, 250-3, 272-5, 293-5 S 4-O 9 '42
Chemical engineering for transport; scientific methods for railways. D. Brownlie. Chem & Ind 60:859-62 D 6 '41
Diesel versus steam locomotives. R. Aldag. il Nat Pet N 34:R156, R158-60 My 13 '42
Express locomotive for Iraqi state railways. il Engineering 153:150 F 20 '42; Engineer 173:127-8 F 6 '42
Factors affecting locomotive operation. O. E. Allen and others. il diags Ry Mech Eng 116:155-66 Ap '42
Locomotives in 1941. il Engineer 173:14-15+ Ja 2 '42
Locomotives without classification signals. Ry Age 111:795 N 15 '41
London and north eastern railway locomotives for overseas. il Engineering 152:455 D 5 '41; Engineer 172:402 D 5 '41
More freight power required for fall traffic peak. il Ry Age 112:1004-7 My 23 '42
Motive power for higher speeds. il Ry Age 111:858-61 N 22 '41
New C.N.R. locomotives. il Engineer 174:51 Jl 17 '42
Progress in railway mechanical engineering, 1940-1941. il Mech Eng 63:879-92 D '41
Railroad motive power of the future. F. B. Powers. Ry Age 112:702-4 Ap 4 '42
Railroads on spot; limit on new freight cars and locomotives. Business Week p17-18 Ap 18 '42

LOCOMOTIVES—*Continued*

Southern railway 0-6-0 freight engines. il Engineer 173:327 Ap 17 '42

Steam locomotive; its theory, operation and economics, including comparisons with Diesel-electric locomotives. R. P. Johnson. 502p $3.50 Simmons-Boardman '42

See also

Electric locomotives
Motor cars (railroad)
Steam engines
Stokers, Mechanical
Tractors

Bearings

Curtailment of the use of copper; modified design of journal bearing. V. R. Hawthorne. diags Ry Age 112:264 Ja 24 '42

Railway bearing metals; their control and recovery. J. N. Bradley and H. O'Neill. il diag Engineering 154:298-300, 318-20, 339-40 O 9-23 '42; Same cond. Engineer 174:324-6, 347-8 O 16-23 '42; Discussion. Engineering 154:275-6 O 2 '42

Roller bearings and national defense. T. V. Buckwalter. il diags S A E J 50:29-36 Ja '42

Timken tapered roller bearings speed up railway transportation. W. C. Sanders. il Mach 48:174-9 Ap '42

Cost of operation

How to study requirements for Diesel switchers; cost comparison; typical application report. A. H. Candee. Ry Age 112:1235-9 Je 27 '42

Design

Articulated locomotives for the Union Pacific railroad. il Engineering 154:261-3, 270 O 2 '42

Balancing of locomotive reciprocating parts. E. S. Cox. diags Inst Mech Eng J & Proc 146:Proc 148-62, pl 1-2 F '42; Same abr. Engineering 153:36-9, 58-60 Ja 9-16 '42; Abstract. Engineer 172:458-9 D 26 '41; Discussion. Engineering 152:513-14 D 26 '42

Can locomotive hammerblow be abolished? H. N. Colam and J. D. Watson. diags Engineering 153:77-8, 136-8 Ja 23, F 13 '42; Same cond. Inst Mech Eng J & Proc 146: Proc 163-6 F '42; Excerpts. Engineer 172: 457-8 D 26 '41

C. & O. Allegheny locomotives first of 2-6-6-6 type. il Ry Age 112:478-83 Mr 7 '42; Same, with diags. Ry Mech Eng 116:199-207+ My '42

Chesapeake & Ohio buys 4-6-4 passenger locomotives; many parts of eight Baldwin-built engines fabricated by flame cutting and welding. il diags Ry Mech Eng 116: 330-5 Ag '42; Same cond. Ry Age 113:333-6 Ag 29 '42

0-6-0 goods locomotive for the Southern railway. il diag Engineering 153:336-7 Ap 24 '42

Locomotive design details improved. il Ry Mech Eng 116:79-80 F '42

New York Central locomotives. E. C. Poultney. il diags Engineer 173:380-2, 400-2 My 8-15 '42

Outlook for steam motive power. R. M. Ostermann. diag Ry Age 113:299-301 Ag 22 '42

Position of the locomotive in mechanical engineering. W. A. Stanier. diag Inst Mech Eng J & Proc 146:Proc 50-61, pl 1-4 D '41; Same abr. Engineering 152:357-60, 376-80 O 31-N 7 '41; Same. Engineer 172:290-3, 309-12, 328-9 O 31-N 14 '41; Same cond. Ry Age 112:415-18, 445-8+ F 21-28 '42

Progressive changes in Santa Fe 4-8-4 locomotives. il diags Ry Mech Eng 116:367-71 S '42

Southern (England) mixed traffic locomotives. il Ry Mech Eng 116:377-8 S '42

Union Pacific gets 20 more 4-6-6-4 steam locomotives. il Ry Mech Eng 116:413-17 O '42; Same. Ry Age 113:516-19 O 3 '42

Dictionaries

Locomotive cyclopedia of American practice [1941]. R. V. Wright and others, eds. 11th ed 1312p $5 Simmons-Boardman '41

Drawing

How to draw locomotives. P. B. Mann. 63p $1 Studio publications, 381 4th av, New York '42

Driving boxes

Horizontal driving-box press. il Ry Mech Eng 116:383-4 S '42

Efficiency

Position of the locomotive in mechanical engineering. W. A. Stanier. diag Inst Mech Eng J & Proc 146:Proc 50-61, pl 1-4 D '41; Same abr. Engineering 152:357-60, 376-80 O 31-N 7 '41; Same. Engineer 172:290-3, 309-12, 328-9 O 31-N 14 '41; Same cond. Ry Age 112:415-18, 445-8+ F 21-28 '42

Weight per effective horsepower, steam vs Diesel-electric locomotive. A. I. Lipetz. Diesel Power 20:656 Ag '42

Equipment

Chesapeake & Ohio buys 4-6-4 passenger locomotives; many parts of eight Baldwin-built engines fabricated by flame cutting and welding. il diags Ry Mech Eng 116: 330-5 Ag '42; Same cond. Ry Age 113:333-6 Ag 29 '42

Redesigned compressed air radiation unit. il Ry Age 112:820 Ap 25 '42; Same, with diags. Ry Mech Eng 116:341-2 Ag '42

See also

Locomotive boilers

Failures

Bureau of locomotive inspection annual report. il Ry Mech Eng 116:56-61 F '42; Same cond. Ry Age 112:208-10 Ja 17 '42

Equipment serviceability aided by eliminating failures. H. P. Hass. il diags Ry Mech Eng 116:157-65 Ap '42

Front ends

Fabricating all steel front end parts by welding. il diag Ry Mech Eng 116:80-1 F '42

Fuel

Chemical engineering for transport; scientific methods for railways. D. Brownlie. Chem & Ind 60:859-62 D 6 '41

Conditions required to burn screenings successfully. F. P. Roesch. Ry Age 111:950-1; Discussion. J. W. Hulson. 951 D 6 '41

Firing practice on coal-burning and on oil-burning locomotives; Railway fuel and traveling engineers' assn. committee reports. Ry Mech Eng 116:484-6 N '42

Is fuel economy a legitimate war-time objective? T. Olson. Ry Age 113:96-9 Jl 18 '42

Locomotive fuel figures accurately compared; statistics of fuel and power consumption of locomotives and motor cars. E. E. Ramey. Ry Age 112:786-91+ Ap 18 '42; Discussion. C. E. Day. 112:1117-18 Je 6 '42

Relation of coal sizes to fuel economy; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:489-91 N '42

What coal equivalents do to fuel performance records; report of Fuel and traveling engineers' committee. Ry Age 113:692-3+ O 31 '42; Same. Ry Mech Eng 116:487-9 N '42

See also

Locomotive boilers—
Firing

History

Commentary on Ahrons' The British steam locomotive, 1825-1925. C. F. D. Marshall. il diag Engineer 174:310-12 O 16 '42

Inspection

Albuquerque locomotive inspection pit. il Ry Mech Eng 116:111-12 Mr '42

Locomotive inspection law as amended March 4, 1915, June 7, 1924, June 27, 1930, and April 22, 1940. 127p Interstate commerce commission, Bur. of locomotive inspection, Washington; fabrikoid 40c Supt. of doc. '42

See also Interstate commerce commission—Bureau of locomotive inspection

Manufacture

Accurate machining of chafing plates. il Ry Mech Eng 116:222-3 My '42

LOCOMOTIVES—Manufacture—*Continued*

Baldwin locomotives for long hauls and switching service. A. G. Cole. il Mach 48: 166-71 Ap; 148-52 Je '42

Building huge locomotives to help win the war; American locomotive co. R. B. McColl. il Mach 48:126-33 Ap '42

Fabrication by welding in the railroad shop. il Ry Mech Eng 116:262-5 Je '42

High dynamic steel parts for locomotives; operations in machining; Timken roller bearing co. W. C. Sanders. il Mach 48:113-19 Je '42

Welding as applied to locomotives. J. Partington. il Welding J 21:90-3 F '42

See also

Locomotive works

Performance

French locomotive performances. O. S. Nock. il diags map Engineer 173:110-13, 132-4 F 6-13 '42; Discussion. 173:186, 266, 289-90, 329, 369-70, 430-1, 495-6; 174:33-4, 73-4, 115-16, 154-5 F 27, Mr 27-Ap 3, 17, My 1, 22, Je 12, Jl 10, 24, Ag 7, 21 '42

Greater use from locomotives. il Ry Age 113: 23-5 Jl 4 '42

Utilization of steam passenger locomotives. A. A. Raymond. Mech Eng 63:870-4 D '41; Same cond. Ry Age 111:444-8 S 20 '41

What coal equivalents do to fuel performance records; report of Fuel and traveling engineers' committee. Ry Age 113:692-3+ O 31 '42; Same. Ry Mech Eng 116:487-9 N '42

See also

Locomotives—Efficiency

Reconstruction

Locomotive modernisation in Uruguay. il diags Engineering 154:245-6 S 25 '42

Reconstructed locomotives on the L.N.E.R. il Engineering 154:7 Jl 3 '42; Engineer 174: 18 Jl 3 '42

United Kingdom converts old locomotives. For Comm W 8:29 S 12 '42

Victory locomotive is christened; Missouri Pacific converts 2-8-4 type into 4-8-4. il Ry Age 113:366-7 S 5 '42

Repair

B & O concentrates production in one shop. W. S. Eyerly. il Mach 48:184-8 Ap; 117-18 My '42

Bushing puller with thrust bearing. N. Deering. il diag Am Mach 86:163-4 Mr 5 '42

Can it be welded? locomotive and car parts on which welding of cracks and fractures is not permitted. Ry Mech Eng 116:257 Je '42

Depression experience of value in present emergency. L. M. Westerhouse. Ry Mech Eng 116:184 Ap '42

Eliminate lost-motion in throttle levers. A. Havens. diags Am Mach 86:1093-4 O 1 '42

Facing locomotive packing rings. A. H. Carroll. il diags Am Mach 86:1171 O 15 '42

Flame hardening in the railroad shop. il Ry Mech Eng 116:268-9 Je '42

Greater equipment capacity secured by increasing availability. N. M. Trapnell and J. B. Blackburn. Ry Mech Eng 116:133-5 Ap '42

Grinding, a practical aid to war production; analysis of comparative cost of finishing locomotive parts. H. H. Moor. il Ry Mech Eng 116:171-5 Ap '42

Improved method for checking alignment of running gear. diags Ry Mech Eng 115:528-31; 116:28-30 D '41-Ja '42

Keeping the New York Central's 4000 locomotives in running order. C. O. Herb. il Mach 48:150-7 Ap; 121-5 Ag; 49:137-41 S '42

Locomotive cylinder heads welded; with cost data. L. W. Sagle. il diags Am Mach 86: 937-9 S 3 '42

Machine gas cutting in the railroad shop. il Ry Mech Eng 116:266-7 Je '42

Questions and answers on welding practices (cont). il diags Ry Mech Eng 116:31-3, 114-15, 227, 260, 317-18, 388-9, 432 Ja, Mr, My-Jl, S-O '42

Repairs of locomotive parts by welding; L.M.S. railway. il Engineering 154:30 Jl 10 '42

Schedules, wrong kind or right kind? T. E. Hickey. Ry Mech Eng 116:176 Ap '42

Study the job more intensely. H. G. Miller. Ry Mech Eng 116:175-6 Ap '42

Substitution and conservation of materials in locomotive shops; Master boiler makers' assn. committee report. Ry Mech Eng 116: 457-8 N '42

What do the railroads weld? list of locomotive parts repaired by welding. il Ry Mech Eng 116:253-5 Je '42

See also

Locomotive shops

Rods

Progressive changes in Santa Fe 4-8-4 locomotives. il diags Ry Mech Eng 116:367-71 S '42

Sand supply

Modern sand plant incorporates many new features; Western Maryland engine terminal. il Ry Age 112:255-6 Ja 24 '42

Smoke problem

Diesel-electric locomotive and smoke prevention. Ry Age 113:139-40 Jl 25 '42

Protecting the bridges on the Queen Elizabeth Way; blast-plate protection against locomotive stack blasts and gases. A. Sedgwick. il diag Roads & Bridges 80:28-30 Ja '42

Statistics

Has capacity of motive power reached the limit? H. C. Wilcox. Ry Age 112:46-8 Ja 3 '42

Locomotive orders in 1941 greatest since 1923. A. J. McGinnis. Ry Age 112:113-20+ Ja 3 '42

Role of rail equipments vital; supply and character of locomotive supply. S. Altschul. Barron's 21:8 N 24 '41

Testing

Determining counter-balancing effects by rail-stress measurements. diags Engineering 154:301-4, 341-4 O 16, 30 '42

Status of the steam locomotive in Great Britain. W. A. Stanier. Ry Age 112:445-8+ F 28 '42

Valves and valve gear

Bronze replaces babbitt on valve crossheads. N. Deering. il Am Mach 85:1231-2 N 26 '41

Gage for reconditioning locomotive cranks. A. H. Carroll. diag Am Mach 86:112 F 19 '42

Simplifying repairs to radius-rod extensions. A. H. Carroll. diag Am Mach 85:1320 D 24 '41

Spacer blocks speed valve-gear repairs. A. Havens. diag Am Mach 86:58 F 5 '42

Step-cut valve crosshead pin. A. H. Carroll. diag Am Mach 86:1093 O 1 '42

Weight

Weight per effective horsepower, steam vs Diesel-electric locomotive. A. I. Lipetz. Diesel Power 20:656 Ag '42

Wheels

Balancing of locomotive reciprocating parts. E. S. Cox. diags Inst Mech Eng J & Proc 146:Proc 148-55, pl 1-2 F '42; Same. Engineering 153:36-9 Ja 9 '42

Determining counter-balancing effects by rail-stress measurements. diags Engineering 154:301-4, 341-4 O 16, 30 '42

Handling wheels of locomotives. P. C. Ziemke. diag Eng & Min J 143:119-20 Ag '42

Locomotive wheel notation. E. H. Livesay. Engineer 172:356 N 21 '41; Discussion. 172: 396 D 5 '41

War maintenance; tires and wheels. il Coal Age 47:99-102 O '42

Wearing qualities of road locomotive tires. C. P. Brooks. Ry Mech Eng 116:185-6 Ap '42

LOCOMOTIVES, Diesel

Annual report of the Explosives division, fiscal year 1941; investigation of hazards in the use of Diesel locomotives in mines. M. A. Elliott. bibliog U S Bur Mines Rep of Invest 3602:16-22 '42

Delaware aqueduct; Diesel locomotives underground. il Engineer 174:290-2 O 9 '42

Diesel possibilities envisioned for haulage power in mines, etc. Diesel Power 20:592-3 Jl '42

Diesel vs. steam for railways; with cost data. B. W. Reynolds. il Diesel Power 20:205-6+ Mr '42

Future of the railway oil engine. B. Reed. Engineering 153:145-6, 218-20 F 20, Mr 13 '42; Same cond. Engineer 173:104-6 Ja 30 '42

Influence on atmospheric pollution of the exhausts from Diesel automotive vehicles and locomotives. R. J. Bender. Diesel Power 20:646-9 Ag '42

Orders for Diesel power set new record in 1941. Ry Mech Eng 116:68-9 F '42

Fire protection

Fire protection for Diesel locomotives. diags Diesel Power 20:940+ N '42

LOCOMOTIVES, Diesel-electric

Alco-G.E. 1,000-hp. Diesel-electric road switchers. il Ry Age 112:291-3 Ja 31 '42; Same. Ry Mech Eng 116:62-4 F '42

Alcoa Terminal gets new Whitcomb Diesel-electric switcher. il Ry Age 112:375-6+ F 14 '42

Atlas 65-ton Diesel-electric locomotive. il Blast F & Steel Pl 30:564 My '42

Atlas 65-ton Diesel-electric switcher. il Ry Age 112:953-4 My 16 '42

Atlas 65-ton switcher. il Diesel Power 20:602 Jl '42

C.N.R. oil-electric shunting locomotives. il Engineer 173:513-14 Je 19 '42

Diesel electric locomotive. il Blast F & Steel Pl 30:160 Ja '42

Diesel-electric locomotive and smoke prevention. Ry Age 113:139-40 Jl 25 '42

Diesel-electric problems of the road foreman; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:493-4 N '42

Diesel-electric switchers are doing a real job. F. H. Craton. il Diesel Power 20:404-5 My '42

Diesel-electrics for freight and passenger service; New York, New Haven & Hartford. il Ry Age 112:749-52 Ap 11 '42; Same. Ry Mech Eng 116:208-11+ My '42

Diesel locomotive battery maintenance vital during wartime. il Diesel Power 20:573-4 Jl '42

Diesel locomotive comes of age. Diesel Power 20:419-21 My '42; Discussion (Weight per effective horsepower, steam vs Diesel-electric locomotive). A. I. Lipetz. 20:656 Ag '42

Diesel versus steam locomotives. R. Aldag. il Nat Pet N 34:R156, R158-60 My 13 '42

Electric control for steam boilers on Diesel-electric and straight electric locomotives. E. H. Burgess. il diag Elec Eng 61:Trans 604-6 Ag '42

Electrical developments of 1941; railroad equipment. G. Bartlett. il Gen Elec R 45:38-9 Ja '42

Handling Diesel-electric freight trains; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:480-2 N '42

Modern electrical equipment for industrial Diesel-electric locomotives. L. Greer. il diag Elec Eng 61:Trans 229-32 Ap '42; Same cond. Diesel Power 20:210-11+ Mr '42; Abstract. Ry Age 112:339-40 F 7 '42

Orders for Diesel power set new record in 1941. Ry Mech Eng 116:68-9 F '42

Push-pull application of industrial Diesel-electric locomotives. Diesel Power 20:601 Jl '42

Railroad motive power of the future. F. B. Powers. Ry Age 112:704 Ap 4 '42

Susquehanna works its Diesel 24 hours a day. il Ry Age 113:101 Jl 18 '42

Switching at small industrial centers on the B. & M. il Ry Age 113:558-9 O 10 '42

Control

How Diesel-electric locomotive controls work. T. L. Weybrew. il diags Diesel Power 20:823-5, 832, 834, 915-16+ O-N '42

Cost of operation

How to study requirements for Diesel switchers; cost comparison; typical application report. A. H. Candee. Ry Age 112:1235-9 Je 27 '42

Design

New 2000-bhp Diesel-electric road locomotives for the N.Y., N.H. & H.R.R. F. Guillot. il diag Gen Elec R 45:326-30 Je '42

Progress in design of electrical equipment for large Diesel-electric locomotives. G. F. Smith. Elec Eng 61:Trans 130-1 Mr '42; Same cond. Ry Age 112:338 F 7 '42

History

Development of the Diesel locomotive in America. W. P. Munger, jr. il Diesel Power 20:906-8 N '42

Manufacture

Diesel-electric switchers for war-production industries. F. H. Craton. il Mach 48:158-65 Ap '42

Producing Westinghouse equipment for electric and Diesel locomotives. R. H. Timmons and J. A. Dorsner. il Mach 48:142-9 Ap '42

Repair

Louisville & Nashville equips Diesel repair shop. il Ry Mech Eng 116:352-4 Ag '42

LOCOMOTIVES, Electric. See Electric locomotives

LOCOMOTIVES, Gas and oil

See also

Locomotives, Diesel

LOCOMOTIVES, Gas turbine

Combustion-gas turbines for locomotives; recent developments, Europe and United States; proposals for hydraulic transmission; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:491-3 N '42

Combustion turbine; successful gas turbo-electric locomotive by Brown-Boveri. il diag Automobile Eng 32:227-9 Je '42

Gas turbine locomotive. il diags Engineer 174:346-7 O 23 '42

LOCOMOTIVES, Industrial

Crane locomotive with lifting magnet. il Engineering 153:467-8 Je 12 '42

Delaware aqueduct; Diesel locomotives underground. il Engineer 174:290-2 O 9 '42

Diesel electric locomotive. il Blast F & Steel Pl 30:160 Ja '42

Diesel-electric switchers are doing a real job. F. H. Craton. il Diesel Power 20:404-5 My '42

Diesel-electric switchers for war-production industries. F. H. Craton. il Mach 48:158-65 Ap '42

Electric locomotives for industrial purposes. il Electrician 129:409-10 O 16 '42

Modern electrical equipment for industrial Diesel-electric locomotives. L. Greer. il diag Elec Eng 61:Trans 229-32 Ap '42; Same cond. Diesel Power 20:210-11+ Mr '42

Push-pull application of industrial Diesel-electric locomotives. Diesel Power 20:601 Jl '42

LOCOMOTIVES, Mine

Annual report of the Explosives division, fiscal year 1941; investigations of hazards in the use of Diesel locomotives in mines. M. A. Elliott. bibliog U S Bur Mines Rep of Invest 3602:16-22 '42

Can rebuilding make old locomotives efficient? with cost data. E. Prudent. il Coal Age 47:57 Mr '42

LOCOMOTIVES, Mine—*Continued*
Diesel possibilities envisioned for haulage power in mines, etc. Diesel Power 20:592-3 Jl '42
See also
Electric locomotives, Mine

LOCOMOTIVES, Oil-electric. See Locomotives, Diesel-electric

LOCOMOTIVES, Steam turbine
Railroad motive power of the future. F. B. Powers. Ry Age 112:703-4 Ap 4 '42
Turbine locomotive; abstract. W. A. Stanier. Mech Eng 64:228 Mr '42

LOCUSTS. See Grasshoppers

LODGE and Shipley machine tool company
Lodge & Shipley completes fifty years of lathe-building. Mach 49:189 O '42

LOELLINGITE
Löllingite from the Philippine Islands. J. Murdoch and D. L. Gardner. il diag Econ Geol 37:69-75 Ja '42

LOESS
Loess asphalt mix used for army airport paving. il diag Eng N 127:875-8 D 18 '41

LOEW'S, incorporated
Arranges $18,000,000 financing. Comm & Fin Chr 154:1700 D 27 '41
High yield stocks. S. Devlin. Mag of Wall St 69:658 Mr 21 '42
Holders of called preferred stock, and debentures may receive immediate payment. Comm & Fin Chr 155:191-2 Ja 13 '42
Loew's in war and peace. Barron's 22:13 Jl 20 '42
Thumbnail stock appraisal. Mag of Wall St 69:147 N 15 '41

LOG marks
Michigan log marks, their function and use during the great Michigan pine harvest. C. Allen, ed. 89p Michigan agricultural exp. station, East Lansing '41

LOGAN, Cyrus Field, 1858-
Reminiscences of an old-timer. por Paper Ind 24:503-5 Ag '42

LOGAN, William Newton, 1869-1941
Memorial. E. R. Cumings. por(pl) Geol Soc Proc 1941:177-86 bibliog(p182-6) Mr '42

LOGARITHMS
Logarithms, trigonometry, statistics; first year college mathematics. H. R. Cooley and others. 280p $2 McGraw-Hill '42
New manual of logarithms to seven places of decimals. K. C. Bruhns, ed. rev ed 610p $2.50 Charles T. Powner co, box 796, Chicago '41
Slide rule and logarithmic tables. J. J. Clark. 3d ed 219p $1.50 Drake '41
Smoley's tables. C. K. Smoley. 10th ed 403p, 184p $4.50 C. K. Smoley & sons, 415 Vine st, Scranton, Pa. '41

LOGGING. See Lumbering

LOGS
Barking of long logs in saw-log form. diags Pulp & Pa of Can 42:776 D '41
Four methods of scaling logs. Pulp & Pa of Can 43:776 S '42
Ridding reservoirs of floating logs. Eng N 128:420 Mr 12 '42

LOGS of wells. See Petroleum—Well logging

LOGWOOD
Natural dyewoods and their present position in defense economy. H. R. Tisdale. il Chem Ind 49:784-6 D '41

LOIS river

Power utilization

Excavation and concreting methods; Scanlon dam on the Lois river, British Columbia. W. Jamieson. il Can Eng R & B 79:16-18 D '41

LÖLLINGITE. See Loellingite

LOMAN, Harry James, 1896-
Dean of American institute for property and liability underwriters, inc. por Nat Underw 46:4 My 7 '42; East Underw 43:17 My 8 '42

LONDON, England
London triumphant. S. R. Jones. 278p $4.50 Studio publications, 381 4th av, New York '42
New York, London lay post-war plans. Eng N 129:272 Ag 27 '42
Replanning London; exhibition at Burlington house. Engineer 174:341-2 O 23 '42
To rebuild London on decentralization plan. H. U. Nelson. Comm & Fin Chr 156:732 Ag 27 '42
Totalitarian war remakes civilian London in its own image. il Arch Forum 75:sup10, 12 D '41

Bridges

Waterloo bridge. il plan Engineer 174:55-7 Jl 17 '42
Waterloo bridge. il Engineering 154:131-2, 150 Ag 14-21 '42

Politics and government

Government and misgovernment of London. W. A. Robson. 484p $4.50 Norton '39

Rapid transit

Plan for handling London transport announced. For Comm W 5:18 N 22 '41
Staggered hours help in London. Transit J 86:162 My '42

Subways

London utilizes deepest tunnels as super air raid shelters. il Eng N 129:457 O 1 '42
Railways and air raids. il diags Engineer 173:322-5, 340-2 Ap 17-24 '42

Water supply

Water service in wartime London. H. Berry. Am Water Works Assn J 34:1298-1327, 1689-91 S, N '42

LONDON brick company
Ordinary general meeting, 42d, London. Economist 142:406 Mr 21 '42

LONDON guarantee and accident company
Observes 50th anniversary in United States. W. L. Clapp. East Underw 43:36 O 9 '42

LONDON, Midland and Scottish railway
Annual general meeting, London. Economist 142:371-2 Mr 14 '42

LONDON passenger transport board
How London transport board works. Gas J (Lond) 239:352, 355 S 2 '42

LONDON stock exchange
London active security prices and yields. Published bi-weekly in the Economist
London's stock market and ours. J. S. Lawrence. il Banking 35:32-3 N '42
Manpower and the stock markets. Economist 142:686-7 My 16 '42
Opposing war markets in similar trends; German stock prices, like those of Britain, reflecting stabilized earnings and favorable yields. B. Ravits. Barron's 22:5 My 25 '42
Stock exchange in total war. Economist 142:545 Ap 18 '42
Stock exchanges. Published in weekly numbers of the Economist
Stock exchanges, 1941. Economist 142:sup5-6 Mr 14 '42
Stock prices in England. Barron's 22:1 O 12 '42
Suggested marking reform. Economist 141:693 D 6 '41
What's ahead for U.S. securities? does Britain's market forecast recovery here? A. T. Miller. Mag of Wall St 70:628-31+ O 3 '42

LONE star cement corporation
High yield stocks. S. Devlin. Mag of Wall St 69:659 Mr 21 '42
Investment audit. H. J. Nelson. Barron's 22:13 Ap 6 '42
Thumbnail stock appraisal. Mag of Wall St 69:205 N 29 '41

LONE star gas corporation
Financial status. O. Ely. Pub Util 29:298-9 F 26 '42
Group files reorganization proposal with SEC. Comm & Fin Chr 155:1014 Mr 9 '42
SEC approved simplification. Comm & Fin Chr 156:1609 N 2 '42

LONE star gas corporation—*Continued*
To file amendment to reorganization plan. Comm & Fin Chr 155:1409 Ap 6 '42

LONG BEACH, California
Surveys show Long Beach is moving up, down and sideways. diag map Eng N 128: 477 Mr 26 '42

LONG distance telephone. See Telephone—Long distance

LONG ISLAND lighting company
Annual report. Comm & Fin Chr 155:1122 Mr 16 '42
Debentures placed privately. Comm & Fin Chr 155:1922 My 18 '42
P.S. commission approves bond issue of $30,205,000. Comm & Fin Chr 156:607 Ag 17 '42
Refunding authorized. Comm & Fin Chr 155: 53 Ja 3 '42
$10,000,000 debenture issue authorized. Comm & Fin Chr 155:1839 My 11 '42
$30,205,000 bonds placed privately. Comm & Fin Chr 156:1329 O 12 '42

LONGEVITY
Average length of life in America among wage-earners and their families almost doubled during past 60 years. Science 95: sup 13 Je 19 '42
Expectation of life. Science 96:sup8+ S 18 '42
Lengthened life span of printers. Monthly Labor R 55:527-9 S '42
What price glory; death age of physicians according to degree of prominence. C. A. Mills. Science 96:380-1 O 23 '42

LONGSHOREMEN
Organisation of the employment of dockers in France. Int Labour R 44:686-8 D '41
Peace in the West Coast shipping industry. P. Eliel. Ann Am Acad 224:147-51 N '42
U.S. takes over; relations between Bridges and waterfront employers on the Coast now up to six-man board. Business Week p77-8 Mr 21 '42
Wartime regulation of port labor in Habana, Cuba, 1942. L. R. Lutkins. Monthly Labor R 55:229-30 Ag '42
Work of the Waterfront control commission in New Zealand. Int Labour R 45:402-7 Ap '42

LOOMS
Army blankets on carpet looms. J. N. Dow. il Textile World 92:70-2 Je '42
Axminster loom conversion; substitute for duck in military and essential civil uses. H. E. Reed. il Textile World 92:68-9 Je '42
Boosts mechanical impulse; device used in conjunction with counter on loom; patent assigned to Veeder-Root company. diags Machine Design 14:128+ My '42
Calculating rayon loom production. H. R. Mauersberger. Rayon 23:279-80 My '42
Center filling stop motion defects. H. E. Wenrich. il Rayon 23:283-4, 335-7 My-Je '42
Converting to cotton osnaburgs; suggestions to weavers. Textile World 92:67 Je '42
Cotton loomfixers' manual. I. Moberg. 197p $2.50 McGraw-Hill '42
Evolution of a rayon warp section beam. R. U. Thornton. il Rayon 23:274-5 My '42
How to make cotton duck; adapting various types of looms. diag Textile World 92:61-4 Ap '42
Loomfixers' manual; cotton (cont). I. Moberg. diags Textile World 91:108 D '41; 92: 98-9 Ja; 107-8 Mr; 115-16 Ap; 133 S '42
Loomfixers' manual; rayon and silk section (cont). H. E. Wenrich. diags Textile World 92:99 Ja; 108 Mr; 114-15 My; 93 Je; 82 Jl; 103 Ag; 98 O '42
Loomfixers' manual; wool section (cont). E. P. Schremp. diags Textile World 91:107-8 D '41; 92:128-9 F; 116 Ap; 115 My; 92-3 Je; 81-2 Jl '42
Stephenson improved filling mix attachment. il Textile World 92:99 Ap '42
Weaving duck on carpet looms. il Textile World 92:69+ My '42
See also
Weaving

LORAIN, Ohio

Lighting

Street lighting in Lorain follows progressive plan. E. J. Burger. il plan Elec W 116: 1710-11+ N 29 '41

LORENTZ-FITZGERALD contraction
Interference phenomena with a moving medium. H. E. Ives and G. R. Stilwell. il diags Opt Soc Am J 31:14-24; 32:25-31 Ja '41, Ja '42

LORENTZ transformation
Is space-time flat? W. Band. bibliog Phys R 61:698-701 Je 1 '42

LORILLARD, P., company
Consolidated income account, 1938-1941. Comm & Fin Chr 155:2368 Je 22 '42

LOS ANGELES
Plan for pedestrians; C. B. Troedsson's Safety town. il plans Arch Forum 76:sup10 Mr '42
See also
Labor and laboring classes—Los Angeles
Motor bus lines—Los Angeles

Industries

Los Angeles's plea fails; WPB decides to build new rolling mill in Middle West. Business Week p18 My 2 '42
Los Angeles's war pool. Business Week p68 F 7 '42
Why we scrapped our war production plan. H. W. Wright. il Am Business 12:34-6, 42-3 Ap '42

Lighting

Los Angeles street lights equipped for quick blackout. O. W. Holden. il Elec W 117: 1898, 1900+ My 30 '42
Los Angeles tests show sharp reduction in after-dark collisions; abstract. R. T. Dorsey. Illum Eng 37:198 Ap '42

Rapid transit

Horse trades in steel rails in war time; rails are being swapped for franchise releases. J. H. Collins. Pub Util 29:745-9 Je 4 '42
Hour-staggering halves Los Angeles peaks. L. S. Flint. il Transit J 86:209-11 Je '42
How Los Angeles tackled the war-worker transit problem. L. S. Flint. il Bus Transportation 21:302-5 Jl '42
New subsidy plan solves ride-to-work problem; buses and streetcars subsidized by Lockheed. il Factory Management 100:92-4 O '42
Staggering to work. J. H. Collins. Pub Util 29:795-802 Je 18 '42

Sewerage

Ventilation of large sewers; abstract. H. G. Smith. Water Works & Sewerage 89:443 O '42

Streets

Los Angeles' street traffic problem; curb parking of motor vehicles. E. E. East. il Civil Eng 12:435-8 Ag '42

Surplus materials exchange

Lend-lease pooling for frozen equipment; Los Angeles free exchange, operated by the chamber of commerce. J. H. Collins. Pub Util 30:287-91 Ag 27 '42

Water supply

Guarding water works property. W. W. Hurlbut. Am Water Works Assn J 34:1169-72 Ag '42
Investigation of an unusual natural water softening. D. W. Graham. bibliog Am Water Works Assn J 34:589-94 Ap '42
Steel siphon rehabilitation on the Los Angeles aqueducts. W. W. Hurlbut, B. S. Grant and H. A. Price. il diags map Am Water Works Assn J 34:1635-66 N '42
Unusually elaborate water treatment; softening and filtration plant serving Los Angeles area. il Water & Sewage 80:11+ Ja '42

LOS ANGELES aircraft times
Plane paper published for workers. Business Week p64+ O 10 '42

LOS ANGELES river

Rolled-fill methods at Sepulveda dam. J. G. Morgan. il diags Eng N 129:170-2 Jl 30 '42

LOS ANGELES stock exchange

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

LOSS leaders. See Price cutting

LOST articles

Just like finding money; possession of money found by customer of safety deposit company. M. L. Hayward. Barron's 22:5 Je 22 '42

LOST wax process

Precision castings; modification of the lost-wax process. W. A. Phair. il Iron Age 150:39-41 Jl 9 '42

LOTIONS

1942 sunburn lotions. L. Stambovsky. Consumers' Research Bul 9:17-18 Je '42

LOTTERIES

Sees lottery way to raise war billions. J. R. Crawford. Comm & Fin Chr 156:1431 O 22 '42

LOUD speaking apparatus

All-purpose public address amplifier. A. Besse. il diag Radio N 27:10-11+ Ap '42

Audio frequency compensating circuits. S. Cutler. diags Electronics 15:63, 66+ S '42

Centralized sound in a naval station. S. Harman. il diags Radio N 28:20-2+ Ag '42

Centralized sound systems aid war production. S. Harman and H. Blair. il Radio N 28:30-2 Jl '42

Designing a public address amplifier. L. M. Dezettel. il diags Radio N 27:26-7+ Ap '42

Experiments with the noise analysis method of loudspeaker measurement. B. Olney. diags Acoustical Soc Am J 14:79-83 Jl '42

Flexible equalizing amplifier; used for equalizing loudspeakers, recording heads, playback equipment, or telephone lines. E. G. Cook. il diags Electronics 15:36-41+ Jl '42

How to keep the loudspeaker system working. H. Paro. il Factory Management 100:64-6 Ap '42

Impedance matching on a sound basis. B. E. Philippsen. diags Radio N 27:18-19+ Ap '42

Public address systems. S. Hill. bibliog diags Inst E E J 89 pt 3:124-34; Discussion. 134-8 S '42

Selecting speakers for specified sound levels. R. P. Glover. diag plan Radio N 27:24-5+ Ap '42

Sound and the victory program; use of loudspeakers for intercommunication, air raid warning, music, etc. S. C. Milbourne. il Radio N 27:9+ Ap '42

Sound for defense plants. R. P. Turner. il diags Radio N 27:16-17+ Ap '42

Sound systems for war plants. S. Harmon. il plan Radio N 28:22-4+ S '42

Trouble-shooting sound systems. H. Paro. Factory Management 100:136, 138, 140 S '42

Vocational acoustics. R. L. Leadbetter. il W Soc E J 47:59-69 Ap '42

See also

Microphones

Radio loud speakers

Testing

Quarter-wave method of speaker testing. S. L. Reiches. diags Soc Motion Picture Eng J 38:457-67 My '42

LOUDNESS. See Sound—Measurement

LOUISIANA

See also

Petroleum industry and trade—Louisiana

Economic conditions

Measures of business variation in Louisiana. C. T. Devine. 51p bibliog(p40-2) Louisiana state univ. press, Baton Rouge '41

Industries and resources

Louisiana's attractions to industry are difficult to duplicate. J. A. Lee. map Chem & Met Eng 49:96-7 Je '42

LOUISVILLE, Kentucky

Effect of defense projects on city plan of Louisville. C. Berg. il Civil Eng 12:446-8 Ag '42

Rapid transit

How mass transportation is conducted. il Mass Transportation 38:34-42 F '42

Sewerage

Performance tests of large pumping plant; sewage pumping station. C. F. Johnson. il diag plan Civil Eng 11:703-6 D '41

LOUISVILLE and Nashville railroad

Status of bonds. A. Jansen. Barron's 22:14 S 21 '42

LOUISVILLE gas and electric company

Earnings, years ended Nov. 30, 1940-1941; hearings on transmission lines proposed transactions. Comm & Fin Chr 155:192 Ja 13 '42

Getting dealers or protecting investors? the Louisville gas & electric company case. Comm & Fin Chr 154:1643+ D 25 '41

Standard gas and electric co. to purchase unsubscribed common shares. Comm & Fin Chr 155:~~602 F~~ 7 '42

LOUISVILLE transmission corporation

Northwestern mutual life gets $3,850,000 issue. Comm & Fin Chr 155:1215 Mr 23 '42

LOW temperature. See Temperature, Low

LOWY, Alexander, 1889-1941

Sketch. Chem & Eng N 20:54 Ja 10 '42

Sketch. A. Silverman. Science 95:62 Ja 16 '42

LOYALTY

Psychopolitics. I. A. Richards. Fortune 26:108-9, 114, 116 S '42

LUBRICATING greases

Consistency of lubricating greases and oils at low temperatures; abstract. G. Kaufman. Nat Pet N 34:R126 Ap 15 '42

Development of ball bearing and roller bearing greases. H. M. Fraser. diags Nat Pet N 34:R22, R24, R26+ Ja 21 '42

Grease removes blind bushings. J. E. Hyler. diag Am Mach 86:835 Ag 6 '42

Lubrication of under-water bearings; flocculator in water works plant; abstract. W. Yegen. Pub Works 73:18 O '42

Testing

Performance tests for greases. R. C. Adams and H. E. Patten. il diags Am Soc T M Proc 41:1095-1104 '41; Same abr. Nat Pet N 33:R218-21 Jl 9 '41; Same cond. Power Pl Eng 46:82-3 Mr '42; Discussion. Am Soc T M Proc 41:1105-7 '41

LUBRICATING oil industry

All-America package competition; award to Shell oil co. il Mod Packaging 15:178-9 Ap '42

Fewer 1-quart cans for oil seen as war hits tin supply. Nat Pet N 33:9 D 24 '41

Independent jobbers urged to go after farm business; abstract. C. H. Linn. Nat Pet N 34:35 Mr 18 '42

Lubricating-oil stock plentiful despite increased demands. J. P. O'Donnell. Oil & Gas J 40:15 N 20 '41

Ratio of oil to gasoline sales depends on sales effort and local conditions. map Nat Pet N 33:34+ D 3 '41

Socony-Vacuum; fights the war from Kokomo (Ind.) to Kirkuk (Iraq). il Fortune 26:110-15+ N '42

Service

Chek-Chart's package service keeps cars rolling profitably; putting former free services into a paid-for group. R. Shaw. Sales Management 50:42-3 My 15 '42

Pennsylvania

Demand for heavier lube oils aids Pennsylvania refiners. J. P. O'Donnell. il Oil & Gas J 41:15+ Jl 2 '42

LUBRICATING oils

Abstracts of research papers on lubricating oils, Petroleum division, American chemical society. Nat Pet N 34 pt 2:R322 S 30 '42
Additive for increasing viscosity index. W. L. Nelson. Oil & Gas J 41:50 O 15 '42
Aircraft lubricating oils for the war effort. C. M. Larson. il Nat Pet N 34 pt2:R223-4, R226, R228 Jl 29 '42
Centralized oil distribution; Union drawn steel division of Republic steel corp. il diag plan Iron Age 150:56-62 O 22 '42
Centralized steel mill lubrication. G. H. Kauffeld. il diags Blast F & Steel Pl 30:59-63 Ja '42
Changing concepts of petroleum lubricants. J. W. Poole. bibliog Pet Eng 13:140-5 My '42
Consistency of lubricating greases and oils at low temperatures; abstract. G. Kaufman. Nat Pet N 34:R126 Ap 15 '42
Diesel engine lubrication; report of symposium at National oil and gas power conference. P. M. Heldt. Automotive & Aviation Ind 87:26-8+ Ag 1 '42
Evaluating petroleum lubricants. J. W. Poole. bibliog Pet Eng (Annual no) 13:175-8 [Jl] '42
Hydrocarbon-water solubilities at elevated temperatures and pressures. J. Griswold and J. E. Kasch. bibliog Ind & Eng Chem 34:804-6 Jl '42
Increased toxicity with rotenone dusts; addition of SAE10 lubricating oil. E. J. Campau, H. F. Wilson and R. L. Janes. Soap & San Chem 18:100-1, 103 Ag '42
Lubricant salvage. Rayon 23:487-8 Ag '42
Lubricating-oil experiments in Sweden; pine-tar-oil distillate. For Comm W 9:28 O 10 '42
Lubrication of high speed Diesel engines. H. G. Vesper. Diesel Power 20:217+ Mr '42; Same cond. Power Pl Eng 46:66-7+ F '42; Same cond. Roads & Sts 85:62, 64-5 Mr '42
Maintenance and conservation forum; lubrication. Paper Ind 24:622+ S '42
Mineral lubricating oils; derivation, production and properties; use in refrigerating system compressors. E. S. Ross. Refrig Eng 44:27-33 Jl '42
New oil additive; Loosite. S. G. Harris. Diesel Power 19:1051-2 D '41
Optical rotation of petroleum fractions. M. R. Fenske and others. bibliog Ind & Eng Chem 34:638-46 My '42
Oxidation characteristics of lubricating oils; relation between stability and chemical composition. G. H. von Fuchs and H. Diamond. bibliog il diag Ind & Eng Chem 34:927-37 Ag '42
Oxidation characteristics of pure hydrocarbons. R. G. Larsen, R. E. Thorpe and F. A. Armfield. il diag Ind & Eng Chem 34:183-93 F '42
Palm oil substitutes; roll oils and coolants for the cold mill; abstract. M. Reswick. Iron Age 150:53-4 O 8 '42
Proper oil prolongs life of pumping unit speed reducer. K. N. Mills. il diag Oil & Gas J 40:161+ Ap 30 '42
Reclamation of used lubricants. E. M. Leahey. Pulp & Pa of Can 43:37-8 Ja '42
Recovery of lubricating oil; economical filtration system. Chem Age (Lond) 46:302 Je 20 '42
Refinoil method of lubricant treatment. flow chart il Diesel Power 20:929+ N '42
Rock-drill lubricants. F. R. Anderson. il Eng & Min J 143:49-51 S '42
Tamperproof bottles taking place of cans for lube oil. J. P. O'Donnell. il Oil & Gas J 41:76 Je 25 '42

See also
Castor oil
Lubrication and lubricants

Analysis

Determination of free sulfur in lubricating oil. H. Levin and E. Stehr. bibliog diags Ind & Eng Chem Anal ed 14:107-9 F 15 '42
Determination of phosphorus in lubricating oil. H. Levin, F. P. Farrell and A. J. Millendorf. bibliog diag Ind & Eng Chem Anal ed 14:122-3 F 15 '42
Examination of used engine crankcase oil; abstract. L. L. Davis. Nat Pet N 34:R88+ Mr 18 '42
Extraction of metallic constituents from oils. E. P. Rittershausen and R. J. DeGray. Ind & Eng Chem Anal ed 14:806-7 O 15 '42
Proposed method of test for neutralization number of new and used crankcase oils. Am Soc T M Proc 41:348-50 '41

Color

Photoelectric color; description and mensuration of the color of petroleum products. I. M. Diller, R. J. De Gray and J. W. Wilson, jr. bibliog Ind & Eng Chem Anal ed 14:607-14 Ag 15 '42
Photoelectric color test proposed for lubricating and refined oils. Nat Pet N 34 pt 2: R369-70, R372-3 O 28 '42

Manufacture

Filtration of oils by the use of prepared magnesium silicate. H. E. Bierce. il Oil & Gas J 41:47-8 S 10 '42
Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38:891-930 O '42
Metal reclaimed from junk piles built a war lube oil plant. il Nat Pet N 34 pt2:R204-5 Jl 29 '42
New lubricating-oil-decolorizing and clay-reactivating process. W. B. Chenault and A. E. Miller. flow diag il Am Pet Inst Proc 22(3):59-68 '41; Same cond. Nat Pet N 33:R374, R376-8, R380 N 26 '41; Discussion. Am Pet Inst Proc 22(3):68-9 '41
New lubricating oil extraction solvent reported to American institute of chemical engineers; abstracts of papers. Nat Pet N 34: R146 My 13 '42
Refinery practice for the operating man; manufacture of lubricating oils. Pet Eng 13: 123-4 My; 104, 106, 108 Je; 29-30 Jl; 36, 38, 40 Ag; 74, 76, 78+ S; 14:60, 62+ O; 98, 100 N; 72, 75, 78 D '42
Refining methods available for wartime demands. J. F. Thornton and W. C. Dickerman, jr. Oil & Gas J 40:80 F 26 '42
Solvent extraction of Pennsylvania lubricating oils with dimethylformamide. H. T. Ward. bibliog diags Am Inst Chem Eng Trans 38:931-46 O '42
Two types of filtration are combined in Valvoline plant. J. P. O'Donnell. il diag Oil & Gas J 40:40-1 D 18 '41

Rating

Household lubricating oils. Consumers' Research Bul 9:10 Je '42
Saving automobile oil and money; with additional listings of winter oils. Consumers' Research Bul 9:21-2 Mr '42
Winter oils. Consumers' Research Bul 9:19-21 F '42

Specifications

Lubricating oil specifications of British petroleum mission. Nat Pet N 34:R10, R12-13 Ja 7 '42

Testing

Changes occurring in oils and engines from use. F. A. Suess and others. S A E J 50: 196-208 My '42; Abstract. Nat Pet N 33: R351-2 O 29 '41
Co-operative engine wear studies; abstract. F. L. Miller and others. Nat Pet N 34:R45+ F 4 '42
Correlation of lube tests. Nat Pet N 34:26 O 28 '42
Development of heavy duty motor oils; tests on tractor, General Motors Diesel and Chevrolet. H. C. Mougey. il R Sci Instr 13: 89-90 F '42
Durability of gears; abstracts. H. D. Mansion. Engineer 173:522-4 Je 19 '42; Automobile Eng 32:351-6 S '42

LUBRICATING oils—Testing—*Continued*

How to judge used Diesel lube oil. S. S. Hansen. il diags Power 86:14-17 Ja '42

Motor-car gear lubricants. H. D. Mansion. il Engineering 154:138-40, 158-9 Ag 14-21 '42; Same cond. Automobile Eng 32:327-30 Ag '42

New A.S.T.M. test for rust-preventing characteristics of turbine oils. Nat Pet N 34 pt2:R216, R218 Jl 29 '42

Oil corrosion tester; a simplified apparatus for testing corrodibility of bearings and corrosiveness of lubricants. N. MacCoull, E. A. Ryder and A. C. Scholp. il diags S A E J 50:338-45 Ag '42; Abstract. Automotive & Aviation Ind 86:35-6 F 1 '42

Standard engine test for heavy-duty crankcase oils proposed by A.S.T.M. diags Nat Pet N 34 pt2:R214-16 Jl 29 '42

Standard method is proposed for testing crankcase oils for varnish deposits. Nat Pet N 34 pt 2:R324, R326+ S 30 '42

Testing of heavy-duty motor oils. H. C. Mougey and J. A. Moller. il Am Pet Inst Proc 22(3):100-21 '41; Same cond. Nat Pet N 33:R387-8+ D 10 '41; Discussion. Am Pet Inst Proc 22(3):122-3 '41

Testing of heavy-duty motor oils. H. C. Mougey and J. A. Moller. il S A E J 50:417-37; Discussion. 437-8 O '42

LUBRICATION and lubricants

Adequate lubrication keeps anti-friction bearings rolling. J. I. Clower. il diags Power 86:38-40 Ja '42

All-out machine lubrication. R. Trautschold. Rayon 23:485-7 Ag '42

Bearings and lubrication. R. J. S. Pigott. il diags Mech Eng 64:259-69 Ap '42

Dimensional value of lubricants in gear design. J. O. Almen. il diags S A E J 50:373-80 S '42

Dry lubrication; metallic and non-metallic surfaces treated with dag colloidal graphite. Engineer 173:356 Ap 24 '42

Dry lubrication; use of colloidal graphite. Engineering 153:447-8 Je 5 '42

Extreme-pressure lubricants for industrial use. H. A. McConville. Mach 48:143-5 F '42

Frictional phenomena; lubrication. A. Gemant. bibliog diags J Ap Phys 13:355-60 Je '42

Gear lubrication problems. H. R. Wolf. il Nat Pet N 34:28-9, 32+ Ja 14 '42

Getting the most from shovels and cranes. Eng N 129:178 Jl 30 '42

Graphite as a lubricant for high speed tool drives. R. C. Newbury. il diag Iron Age 149:44-6 Mr 5 '42

Guide for relubricating ball bearings developed by bearing engineers. Coal Age 47:66+ My '42

High temperature lubrication; graphite deposited by evaporation of carrier oil. Automobile Eng 32:377 S '42

How smooth should a bearing surface be? E. L. Hemingway. il Iron Age 149:40-5 Ja 8 '42

Industrial lubricating recommendations. H. R. Peterson and J. W. Peterson. Mach 48:152-3 Ag '42

Lubricants for ball bearings; data sheet. Heating-Piping 14:177-8 Mr '42; Iron Age 149:57-8 F 26 '42; Machine Design 14:82+ Mr '42; Coal Age 47:66+ My '42; Am Mach 86:681, 683 Je 25 '42

Lubrication keeps production rolling; Warner & Swasey company. N. Swenson. il Am Mach 85:1138-40 N 12 '41

Lubrication; safety measures. Nat Safety N 45:99-100+ Mr '42

Maintenance of ring lubricated bearings. W. M. Halliday. Mech Handling 29:73-4 Ap '42

Making production equipment last longer; Pratt & Whitney aircraft, East Hartford, Conn. il Factory Management 100:151-2 Ag '42

Modern wick lubrication. V. Huff. Power Pl Eng 46:75 Ap '42

New mathematical method for the solution of film lubrication problems. D. G. Christopherson. bibliog Inst Mech Eng J & Proc 146:Proc 126-35 Ja '42

Part of correct lubrication in equipment maintenance. S. S. Hansen. il Power Pl Eng 46:85-7 Jl; 73-5 S '42

Practical aspects of bearing design. E. B. Etchells and A. F. Underwood. il Machine Design 14:84-7+ S '42

Proper handling and storing keeps good lubricants good. J. I. Clower. il diags Power 86:309-11 My '42

Proper lubrication is step no. 1 in preparedness. Rayon 23:44-7 Ja '42

Pump and bearing lubrication practice. V. M. Palmer and C. L. Pope. Power Pl Eng 46:72-3 Ja '42

Random remarks on plain, ball and roller bearings. E. Ingham. Mech Handling 28:259-60 D '41

Resistance to the uniform motion of a solid through a viscous liquid; reply to J. T. Burwell, jr. R. B. Block. bibliog J Ap Phys 13:56-65 Ja '42

Role of surface chemistry and profile in boundary lubrication. J. T. Burwell. S A E J 50:450-7 O '42; Excerpts. Automotive & Aviation Ind 86:24 Ap 1 '42; Abstract. Nat Pet N 34:R90 Mr 18 '42

Roller bearings and national defense. T. V. Buckwalter. S A E J 50:22-3 Ja '42

Scheduled lubrication saves oil, machinery, and time; American maize-products company. J. L. Looney. il diag Factory Management 100:115-17 My '42

Sleeve bearings; factors that govern their design and performance. B. Sachs. diags Product Eng 13:248-52, 384-7 My, Jl '42

Society of automotive engineers, Mid-west fuels and lubricants division meeting, Tulsa, Oct. 22-23. Oil & Gas J 41:16, 38-40, 44 O 29 '42

SAE national fuels and lubricants meeting, Tulsa, Oct. 23-24. S A E J 49:sup24+ D '41

Some aspects of industrial lubrication. W. J. Hund and others. il diags Mech Eng 64:525-30 Jl '42

Trends in lubrication. S. J. M. Auld and C. Lawrie. il diag Blast F & Steel Pl 30:758-62 Jl '42

Wanted; bearing-lubrication data; abstract. M. D. Hersey. Power 85:982 Mid-D '41

War maintenance; lubrication methods. il Coal Age 47:75-7 O '42

What you can use; addition agents for extreme pressure lubricants. Oil Paint & Drug Rep 140:40 D 15; 61 D 22 '41

Wool felt wicking plays important part in lubrication. E. F. Korbel and W. Colwell. Rayon 23:554-5 S '42

See also

Airplane engines—Lubrication
Automobile engines—Lubrication
Automobiles—Lubrication
Bearings
Electric motors—Lubrication
Graphite
Lubricating greases
Lubricating oil industry
Lubricating oils
Lubricators
Oil reclamation
Rolling mills—Lubrication
Steam engines—Lubrication
Wire rope—Lubrication

Patents

Patents on lubricants and lubrication. Inst Pet J 27:470A-3A; 28:46A-7A N '41, Ja '42

Testing

Zinc oxide in machine lubrication. Engineering 152:468 D 12 '41

See also

Lubricating oils—Testing

LUBRICATION and lubricants (cutting and grinding)

Castor oil now speeds cutting operations. Steel 110:63 Mr 23 '42

Centralized oil distribution; Union drawn steel division of Republic steel corp. il diag plan Iron Age 150:56-62 O 22 '42

Chemico-physical role of the cutting fluid. M. C. Shaw. il diags Metal Prog 42:85-8 Jl '42

Coolant clarification for grinding, honing, or superfinishing machines. Mach 48:151-2 Mr '42

LUBRICATION and lubricants (cutting and grinding)—*Continued*
- Cutting fluid; sulfloid oil. Automobile Eng 32:29-30 Ja '42
- Cutting oil disinfectants. J. C. Varley. il Soap & San Chem 18:88-90 O '42
- Cutting oil sanitation. N. D. Duffett. Ind Med 11:88-9 F '42
- Dermatitis from cutting oils. L. Schwartz. Ind Med 11:228+ My '42
- DoAll band-saw lubricator. il Mach 48:219 Ap '42
- Effect of cutting oils on insulating varnishes and chlorinated rubber paint. Engineering 152:319-20 O 17 '41
- Grinding coolants. G. R. Hersam. Power Pl Eng 45:67 D '41
- Machinability ratings and cutting fluids. W. L. Nelson. Oil & Gas J 40:66 My 7 '42
- Metered lubrication improves automatic tapping. il Am Mach 85:1311 D 24 '41
- New cutting oil for non-ferrous metals. Iron Age 150:67 S 17 '42
- Occupational dermatitis; the use of cutting oils. Nat Safety N 45:168+ Mr '42
- Persistent problem; dermatitis most prevalent occupational disease. C. A. Weslager. bibliog il Nat Safety N 46:26, 58 S '42
- Study of cutting oils with and without added sulphur. O. W. Boston and J. C. Zimmer. Am Soc for Metals Trans 30:793-808 S '42; Excerpts. Metals & Alloys 14:770+ N '41; Same. Oil & Gas J 41:46 Je 18 '42; Discussion. Am Soc for Metals Trans 30:808-16 S '42
- Working with cutting fluids. diags Am Mach 86:225-32 Mr 19 '42

LUBRICATION and lubricants (metal drawing)
- Centralized oil distribution; Union drawn steel division of Republic steel corp. il diag plan Iron Age 150:56-62 O 22 '42
- Drawing die equipped with automatic lubricating device. G. Wilson. diags Mach 48:139-40 F '42
- Interprocess cleaning of cartridge and shell cases employs drawing lubricants which emulsify or are soluble in water. G. R. Hersam. il diags Steel 110:86+ Je 15 '42
- New drawing compound for nickel alloys; Diglycol stearate S. Iron Age 149:63 My 7 '42

LUBRICATORS
- Alemite portable service station. il Refrig Eng 44:36 Jl '42
- Automatic lubrication saves labor and cost, makes machines last. F. M. Hewitt and M. N. Ripley. il diag Food Ind 14:41-4 S '42
- Automatic oilers fit all needs. diags Product Eng 13:142-3 Mr '42
- Centralized steel mill lubrication. G. H. Kauffeld. il diags Blast F & Steel Pl 30:59-63 Ja '42
- Emergency lubricator keeps pump running. C. E. Foster. diags Power 86:667 S '42
- Incorporates built-in controls; pump for supplying lubricants to transmissions; patented by Mack mfg. corp. diags Machine Design 14:134 My '42
- Lubricator mounted on wheel head. il Product Eng 13:12 Ja '42
- Maintaining lubricators. Oil & Gas J 40:181 Ap 30 '42
- Manufacture of mobile lubricating equipment employs arc process of welding. A. F. Davis. il Welding J 21:331 My '42
- Metered lubrication improves automatic tapping. il Am Mach 85:1311 D 24 '41
- Oil-Rite constant level lubricator prevents waste. diag Blast F & Steel Pl 30:692-3 Je '42; Steel 110:113 My 18 '42; Rock Prod 45:74 S '42
- Oil-Rite loose pulley oiler. diag Paper Tr J 115:42 Ag 6 '42; Blast F & Steel Pl 30:924-5 Ag '42
- Reinstallation improves lubricator operation. A. Gray. diags Power 86:743 O '42
- Review of power and mechanical equipment; lubricating equipment. il diag Power 85:950-1 Mid-D '41
- Roto sight-feed lubricator for air-driven equipment. Marine Eng 46:82 D '41
- Sharvania atomising device for steam cylinder lubrication. il diag Engineering 152:497 D 19 '41

LUCERNE (plant). See Alfalfa

LUCITE
- Blackout reflector disks. il Mod Plastics 19:49 Je '42
- Design information on lucite. W. C. Wall. il diags Aero Digest 41:122+ O '42
- New lucite gas gage. il diag Bus Transportation 21:330 Jl '42
- Plastics competition award to Lumelite corp.; lawn-stake sign. il Mod Plastics 19:80-1 N '41
- Plastics competition award to Russell & Erwin mfg. co.; push and pull bars for entrance doors. il Mod Plastics 19:68-9 N '41
- Plastics competition award to Swedlow aeroplastics corp. il Mod Plastics 19:128-9 N '41
- Synthetics; recent developments. C. P. Kidder. Automobile Eng 31:457-8 D '41

See also

Methyl methacrylate
Plastic materials, Transparent

LUCRETIUS Carus, Titus, c.98-55B.C.
- Milestones in industrial medicine; T. Lucretii Cari De natura rarum. A. H. Whittaker. il Ind Med 11:214-16 My '42

LUGGAGE. See Baggage

LUKENS steel company
- Debentures offered. Comm & Fin Chr 156:1329 O 12 '42
- Navy department to expend approximately $20,000,000 for expansion. Comm & Fin Chr 155:363 Ja 24 '42
- Wage agreement approved. Comm & Fin Chr 156:1505 O 26 '42

LUMARITH
- Molded sign alphabet. il Mod Plastics 19:48 Je '42
- Plastics competition award to J. M. Gordon & co.; fluorescent Christmas tree ornaments. il Mod Plastics 19:118-19 N '41
- Plastics competition award to Leader electric mfg. corp; Zephyrlite, plastic lamp shield. il Mod Plastics 19:102-3 N '41
- Plastics competition award to Philco radio & television corp.; microphone. il Mod Plastics 19:136-7 N '41
- Shipping and storing extrusions. il Mod Plastics 19:44 My '42

LUMBER
- NHA on shortage. Arch Rec 92:14+ S '42
- Pre-cut lumber speeds defense housing; Rahway River Park (N.J.); staff report with comments by C. F. MacEvoy. il plan Eng N 127:798-801 D 4 '41
- Softwood factory, finish and common grading sketches. 64p $6 A. J. Kehoe, box 92, Modoc point, Ore. '41

See also

Mine timber
Pine
Wood
Wood construction

Prices
- Prices fixed on lumber for cars. Ry Age 111:924 N 29 '41

Transportation
- Hauling logs by small tractor. W. H. McKinley. Pulp & Pa of Can 43:384 Ap '42
- Modern logging operations at Clarke City. J. R. Samson. il Pulp & Pa of Can 43:316-18 Mr '42
- Track wagons on swampy land. Pulp & Pa of Can 43:324 Mr '42
- Tractors make all-year logging possible. il Pulp & Pa of Can 43:458 My '42

LUMBER camps
- Prefabricated camp buildings. Pulp & Pa of Can 43:842 O '42

Equipment
- Loggers lengthen life of equipment. Pulp & Pa of Can 43:778+ S '42

LUMBER drying
- Air seasoning of green timber. Engineering 154:100 Jl 31 '42

LUMBER drying—*Continued*

Improvement of reversible dry kiln fans. A. D. Hughes. (Bul. ser. no. 16) 56p bibliog (p52-3) Oregon state college, Engineering exp. station, Corvallis '41

Treatment of timber in a drying kiln. Engineering 152:417-18, 476 N 21, D 12 '41

Urea treatment of lumber. J. F. T. Berliner. bibliog il Mech Eng 64:181-6 Mr '42; Discussion. 64:678-80 S '42

Wood-drier. Business Week p85 O 17 '42

See also

Lumber kilns

LUMBER handling

Flow at high velocity in a curved rectangular flume; log chute. J. B. Macphail. diag plan Civil Eng 12:158-9 Mr '42

Loading pulpwood ships by conveyor on scow. il Pulp & Pa of Can 43:525-6 Je '42

Pre-hauling eight-foot wood. F. L. Flatt. il diags Pulp & Pa of Can 42:788-93 D '41

Progress of the study of efficiency of pulpwood skidding technique. A. Koroleff. Pulp & Pa of Can 43:265-6 F '42

LUMBER kilns

Bearings in kiln construction. Chem Age (Lond) 47:283 S 26 '42

LUMBER mills

See also

Sawmills

Accidents

Causes and prevention of accidents in logging and lumber mills, 1940. M. D. Kossoris and F. S. McElroy. Monthly Labor R 53:1465-85 D '41

LUMBER trade

Lumber in a jam; U.S. scans means of diverting orders to portable sawmills. Business Week p36-7 O 31 '42

New lumber order. Arch Rec 92:10+ S '42

News by commodities. Published in Foreign commerce weekly

22 years of hustling; a story of successful retail lumber yard management. O. Lieber, jr. 86p pa $4.50 Otto Lieber, jr., 133 Lake st., Neenah, Wis. '41

See also

Pine

also National hardwood lumber association

Advertising

Promotion to hold customer interest; Hines lumber company. F. C. Minaker. il Am Business 12:40, 42 Mr '42

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:23-4 D '41

Statistics

Lumber industry under wartime conditions. J. L. Muller and C. W. Slifko. Survey of Cur Business 22:18-23 Ag '42

Alaska

Alaska's pulp producing possibilities. L. C. Mann. il Paper Ind 23:1195-7+ Mr '42

Australia

News by commodities. For Comm W 8:23 Ag 29 '42

Brazil

Timber resources of Para. For Comm W 9:39 O 17 '42

British Columbia

Interest in B.C. log exports. Paper Tr J 115:28 S 17 '42

Canada

Crisis in lumber; Canada's new speedup program. Business Week p99-100 S 26 '42

Lumber industry, 1938-1939. 81p pa 50c Canada. Dominion bur. of statistics, Ottawa '42

Timber shortage grave. Pulp & Pa of Can 43:768 S '42

Use of lumber to be curtailed. Roads & Bridges 80:78+ O '42

Cuba

Cuban lumber imports. For Comm W 6:16-17 Mr 7 '42

Europe

European lumber situation. For Comm W 7:28-9 Je 6 '42

Great Britain

Commissioners' memoranda; economy in the use of timber. Electrician 128:543-4 My 29 '42

Japan

News by commodities. For Comm W 5:28 N 22 '41

Malaya, British

News by commodities. For Comm W 5:27-8 D 20 '41

Michigan

Michigan log marks, their function and use during the great Michigan pine harvest. C. Allen, ed. 89p Michigan agricultural exp. station, East Lansing '41

Nigeria

News by commodities. For Comm W 6:24 F 28 '42

Nigerian lumber industry. For Comm W 7:22-3 Je 13 '42

Norway

Underpaid, lacking food, Norwegians now turn out less lumber. For Comm W 7:30 Je 20 '42

South Africa

South Africa seeks replacements. For Comm W 8:26 S 12 '42

United States

Lumber decree; national and 22 regional groups to follow rules imposed by the government. Business Week p24+ Ja 10 '42

Lumber industry under wartime conditions. J. L. Muller and C. W. Slifko. Survey of Cur Business 22:18-23 Ag '42

LUMBER workers

Causes and prevention of accidents in logging and lumber mills, 1940. M. D. Kossoris and F. S. McElroy. Monthly Labor R 53:1465-85 D '41

Drastic manpower control in lumbering and mining is indication of what may be done generally. Am Mach 86:1024f S 17 '42

Hazards of logging and sawmilling employments for young workers. 111p U.S. Children's bur, Industrial div, Washington '41

Help for lumber; WPB-NWLB attempt to stabilize conditions in mills and forests of Pacific Northwest. Business Week p29-30 S 19 '42

Manpower and efficiency in woods operations. A. Koroleff. il Pulp & Pa of Can 43:830-2 O '42

New Brunswick's wage scale for streamdriving, booming, sorting. Pulp & Pa of Can 43:394 Ap '42

One shipload a day; a tale of the Canadian forestry corps; cutting timber in Scotland to relieve wood shortage. Q. Reynolds. il Pulp & Pa of Can 43:451-5 My '42

Practical application of Woodlands section's studies; instruction of lumberjacks. E. R. Goulet. Pulp & Pa of Can 43:25-9 Ja '42

Unrest in woods. Business Week p74-6 D 13 '41

Wages in logging industry in Germany, 1941. Monthly Labor R 54:1020 Ap '42

WMC bars job shifting in western lumber-metal industries. Comm & Fin Chr 156:992 S 17 '42

LUMBERING

Cutting based upon economic increment. S. O. Heiberg. bibliog Pulp & Pa of Can 43:833-8 O '42

Johnson boom. il Pulp & Pa of Can 43:716 Ag '42

Literal log jam; Coast lumbermen changing production techniques. Business Week p64 Ag 15 '42

LUMBERING—*Continued*

Logging tools are greatly improved; forty years of progress. J. A. McNally. Pulp & Pa of Can 43:627+ Jl '42

Logs from the fire; Oregon's Tillamook burn. Business Week p56 S 5 '42

Mechanical woods operations for log lengths; with cost data. H. M. Wilson. il Pulp & Pa of Can 43:30-1+ Ja '42

Modern logging operations at Clarke City. J. R. Samson. il Pulp & Pa of Can 43:316-18 Mr '42

One shipload a day; a tale of the Canadian forestry corps; cutting timber in Scotland to relieve wood shortage. Q. Reynolds. il Pulp & Pa of Can 43:451-5 My '42

Over pine mountain trails; making moving picture of lumbering for Dierks lumber company. L. Thompson. il Am Phot 36:36-7 F '42

Pulpwood cutting; efficiency of technique. A. Koroleff. 122p $3.50; to members and schools $2 Canadian pulp and paper assn, A. E. Cadman, sec, 3420 University st, Montreal '41

Speeding up the river drive. O. A. Fitzgerald. il Explosives Eng 20:269-71 S '42

Woodcutter's handbook. il diags Pulp & Pa of Can 43:623+ Jl '42

Accidents

Causes and prevention of accidents in logging and lumber mills, 1940. M. D. Kossoris and F. S. McElroy. Monthly Labor R 53:1465-85 D '41

Accounting

Case problem in lumber costs. E. S. Rittler. N A C A Bul 23:599-613 Ja 1 '42

Time and cost analysis in sulky logging. G. Godwin. Pulp & Pa of Can 42:794-6 D '41

Costs

Cost control in the logging industry. D. M. Matthews. 374p $4 McGraw-Hill '42

Hauling logs by small tractor; with cost data. W. H. McKinley. Pulp & Pa of Can 43:384 Ap '42

Safety measures

Felling timber and accident costs; Edward Hines lumber company. C. L. Irving. il Nat Safety N 45:18-19, 64+ Ja '42

Study and teaching

Better cutting methods demonstrated; short course for instructors. D. R. Stevens. il Pulp & Pa of Can 43:709-14 Ag '42

LUMINESCENCE

Electromagnetic mechanism of the beta phosphorescence of fluorescein in acid solution. S. I. Weissman and D. Lipkin. bibliog il diags Am Chem Soc J 64:1916-18 Ag '42

Fatigue effect in luminescent materials. N. C. Beese and J. W. Marden. bibliog diags Opt Soc Am J 32:317-23 Je '42

Luminescence for war and black-outs. H. E. Millson and C. C. Candee. Textile Col 64:454 S '42; Same cond. Paper Ind 24:494 Ag '42

Luminescent coatings; report of subcommittee no. 43 of the New York paint and varnish production club. Paint Oil & Chem R 104:32-5 F 26 '42; Same abr. Can Chem & Process Ind 26:406-7+ Jl '42

Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

Luminous characteristics of two phosphorescent materials. A. H. Taylor. Opt Soc Am J 32:506-9 S '42

Luminous pigment may revolutionize outdoor advertising; many other uses. Comm & Fin Chr 156:90 Jl 9 '42

Luminous signs. Can Min J 63:89 F '42

Old light in the new dark. M. A. Weil. il Mod Plastics 20:64+ O '42

Persulphate test with luminol and luminescence inductions with sulphurous acid. A. Steigmann. Soc Chem Ind J 61:68 Ap '42

Polarization of luminescence in crystals. B. V. Thosar. bibliog J Chem Phys 10:246-7 Ap '42

Preparation and properties of some phthiocol inner complexes. B. P. Geyer and G. M. Smith. bibliog Am Chem Soc J 63:3071-5 N '41

Properties of luminescent materials. C. E. Barnett. bibliog il Chem & Eng N 20:1006-9 Ag 25 '42

Recent uses for luminescent pigments. R. W. Joerger. Am Dyestuff Rep 31:183-5, 190 Ap 13 '42

Report of committee no. 43 of New York. Paint Oil & Chem R 104:83 N 5 '42

Reversible photochemical processes in rigid media; a study of the phosphorescent state. G. N. Lewis, D. Lipkin and T. T. Magel. bibliog Am Chem Soc J 63:3005-18 N '41

Synthesis of 5-aminocoumarone-2,3-dicarboxylic acid cyclohydrazide; a heterocyclic analog of 4-aminophthalhydrazide. E. H. Huntress and W. M. Hearon. bibliog Am Chem Soc J 64:86-90 Ja '42

Textiles that glow in the dark. il Textile World 92:71 O '42

See also

Fluorescence

Luminol

Paint, Luminous

LUMINESCENCE, Biological

Basic mechanism in the biological effects of temperature, pressure and narcotics. F. H. Johnson, D. Brown and D. Marsland. Science 95:200-3 F 20 '42

Method of recording low intensity flashes of light; intensity changes in light given off by luminous animals. C. Butt and R. S. Alexander. bibliog il diag R Sci Instr 13:151-3 Ap '42; Abstract. Electronics 15:108+ O '42

Phosphorescence microscope. E. N. Harvey and A. M. Chase. bibliog diags R Sci Instr 13:365-8 Ag '42

LUMINOL

Luminol as reagent for hydrogen peroxide, copper, iron, and cyanide. A. Steigmann. Soc Chem Ind J 61:36 F '42

Luminol light reactions. A. Steigmann. Chem & Ind 60:889-90 D 20 '41

Persulphate test with luminol and luminescence inductions with sulphurous acid. A. Steigmann. Soc Chem Ind J 61:68 Ap '42

LUMINOUS materials

Blackout materials and window protection; use of blackout paints and luminescent materials. il Power Pl Eng 46:71-2 N '42

LUMINOUS paint. See Paint, Luminous

LUNCH counters

Spaghetti bar, New York city; restaurant; conveyor brings the food direct to waitresses. il plan Arch Forum 76:176 Mr '42

LUNCH wagons, Employees'

Providing nutritious food; Northern pump company navy ordnance plant. J. B. Hawley, jr. il Factory Management 100:78-9 Ag '42

Rolling restaurants; trailer food trucks. il Business Week p78 Ap 11 '42

LUNCHES, Employees'

Better lunch box; drive to improve diet of worker. il Business Week p39-40, 42+ S 12 '42

Nutrition programs in industrial plants; Servel, Westinghouse electric & manufacturing co., General electric co. and Wisconsin alumni research foundation. Management R 31:379-80 N '42

Pack a lunch a man can work on; nutrition, theme of Bridgeport gas light company's campaign. il Am Gas Assn Mo 24:168-72 My '42

Right food for war workers; pioneering experiment in employee nutrition at Servel. L. K. Urquhart. il Factory Management 100:86-9 O '42

Servel and gas companies unite for nutrition in industry. il Gas Age 90:11-14+ S 24 '42; Same cond. Am Gas J 157:40-2 O '42

Teaching wives to pack good lunches; an industry-community project, Bridgeport. il Factory Management 100:80-1+ Ag '42

Victory lunch aids vitamin intake. F. M. Gatto. il Nat Safety N 46:93-4 S '42

LUNCHES, Employees'—*Continued*

Victuals for victory; nutrition program for workers. V. R. Skogland. il Nat Safety N 46:75+ O '42

LUNCHROOMS and cafeterias

Mass catering; all-electric equipment at a Coventry communal feeding centre. il Elec R (Lond) 130:779-81 Je 19 '42

LUNCHROOMS and cafeterias, Employees'

Air conditioned plant restaurants keep busy war workers up to par; unusual building design, Chicago bridge and iron co. S. R. Lewis. il plan Heating-Piping 14:279-81 My '42

Chicago restaurant building; Chicago bridge and iron co. windowless, air-conditioned restaurant and recreation building. il diag plan Arch Forum 76:173-5 Mr '42

Feeding employees in a small bank. W. H. Kniffin. il Burroughs Clearing House 26:24-5+ Jl '42

Gas cookery in the Douglas Aircraft plants. L. S. Flint. il Am Gas J 157:21-3+ O '42

Gas kitchens feed a production army at Douglas Aircraft. il Am Gas Assn Mo 24:323 S '42

Modern canteen. il Electrician 129:307-8 S 18 '42

Operating a company cafeteria; abstracts. R. Nauman. Management R 31:17-18 Ja '42; Bankers M 144:160-1 F '42

Right food for war workers; pioneering experiment in employee nutrition at Servel. L. K. Urquhart. il Factory Management 100:86-9 O '42

Springfield armory cafeteria heated by unit ventilators. il Heat & Ven 39:41 S '42

Well-equipped canteen Brush electrical engineering co. il Elec R (Lond) 129:640 D 5 '41

Works canteen; electrical features of industrial unit. il Electrician 128:91-2 F 6 '42

LUNCHROOMS and cafeterias, Roadside

Restaurants; food-for-travelers industry; Howard Johnson restaurant and Dutchland Farms restaurant. il plans Arch Rec 91:66-9 F '42

LUNCHROOMS and cafeterias, School

School cafeteria managers are good contacts. A. R. Carter. Am Gas J 156:23 Mr '42

LUND, Richard Jacob, 1905-

Sketch. por Am Cer Soc Bul 21:91-2 Je 15 '42

LUND, Wendell

Nelson gets an A.F.L.-C.I.O. man. por Business Week p7 My 2 '42

LUNDEGÄRDH burner

Lundegärdh apparatus; its construction and use. J. A. C. McClelland and H. K. Whalley. il diags Soc Chem Ind J 60:288-91 N '41

LUNDING, Franklin Jerome, 1906-

Jewel Tea's new president. por Barron's 22:5 Ag 3 '42

LUNGS

Gas exchange in the lungs at high altitudes. D. B. Dill and F. G. Hall. J Aeronautical Sci 9:220-3 Ap '42

Diseases

Limestone formations in the lungs and tuberculosis; abstract. B. J. Olson, W. H. Wright and M. O. Nolan. Science 94:sup12 N 28 '41

See also
Pneumonia
Tuberculosis

Dust diseases

Dust hazards and their effects; abstracts. Published in monthly numbers of Journal of industrial hygiene and toxicology

Tuberculosis in industry; report of the symposium held at the Saranac laboratory for the study of tuberculosis, Saranac Lake, N.Y., June 9-14, 1941. L. U. Gardner, ed. 374p pa $3 Nat. tuberculosis assn, New York '42

See also
Silicosis

LUPANE

Surface films of lupane derivatives. P. Bilham, E. R. H. Jones and R. J. Meakins. Chem Soc J p761-6 N '41

LUPEOL

Constitution of lupeol. E. R. H. Jones and R. J. Meakins. Chem Soc J p757-61 N '41

LYCOPENE

Prolycopene. A. L. LeRosen and L. Zechmeister. bibliog diag Am Chem Soc J 64:1075-9 My '42

LYCOPODIUM saururus

Studies on Argentine plants; alkaloids from lycopodium saururus. V. Deulofeu and J. De Langhe. bibliog Am Chem Soc J 64:968-9 Ap '42

LYCOPODS. See Club mosses

LYLE, J. Irvine, 1874-1942

Sketch. por Heating-Piping 14:457-8 Jl '42

LYMAN continuum

Improved source for the Lyman continuum in the vacuum ultraviolet. R. E. Worley. bibliog il diag R Sci Instr 13:67-71 F '42

LYMPHATICS

Lane medical lectures. C. K. Drinker. 101p bibliog(p99-101) $2.25; pa $1.50 Stanford univ. press '42

Lymphatics, lymph, and lymphoid tissue; their physiological and clinical significance. C. K. Drinker and J. M. Yoffey. 406p bibliog(p315-60) $4 Harvard univ. press '41

LYON metal products, inc.

Adaptation to war; Lyon metal products plants are busy as result of effort to bring in high-priority business. Business Week p22+ Ap 25 '42

But what's to become of all the salesmen? let them dig for war orders. il Fortune 25:84-7+ My '42

How one company is successfully tackling the war-production problem. Steel 110:74-6 My 4 '42

How we go get war work. E. D. Power. il Factory Management 100:68-71+ My '42

In selling war business, easy picking days are gone; 15-point program for landing sub-contracts. P. H. Erbes, jr. il Ptr Ink 200:15-16+ Ag 14 '42

Lyon Metal's all-out effort for war business gets results. L. Rhodes. il Ind Marketing 27:20-1+ My '42

LYONS, J., and company

Ordinary general meeting, 48th, London. Economist 142:904-5 Je 27 '42

LYOTROPIC series

Influence of lyotropic substances on the specific rotation of β-levoglucosan. J. R. Katz. and J. Seiberlich. J Phys Chem 46:640-1 Je '42

LYSYLGLUTAMIC acid

Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

LYTTELTON, Oliver, 1893-

Portrait. Business Week p36 F 28 '42; Fortune 25:102 Ap '42

M

MACARONI

Argue standards for spaghetti and macaroni; F&DA hearing. Food Ind 13:75-6 D '41

Macaroni makers plan war efforts. Food Ind 14:72 Ag '42

MACARTHUR, Douglas, 1880-

General Douglas MacArthur, fighter for freedom. F. T. Miller. 280p $1.35 John C. Winston co, Philadelphia '42

MacArthur of Bataan. H. Nicolay. 188p $1.75 Appleton-Century '42

MacArthur, the workman. Business Week p79 Ap 4 '42

MACARTHUR, Douglas—*Continued*

Bibliography

List of references on General Douglas MacArthur. F. S. Hellman, comp. 30p U.S. Lib. of Congress, Division of bibliography, Washington '42

MACAULAY, Thomas Bassett, 1860-1942
Sketch. por East Underw 43:6 Ap 10 '42; Weekly Underw 146:850 Ap 11 '42

MACAULEY, Edward, 1875-
Key men of the Maritime commission. Marine Eng 47:166-7 O '42

MCAULIFFE, Eugene, 1866-
President A.I.M.E. 1942. por Min & Met 22:577-8 D '41
Sketch. por Explosives Eng 20:36-7 F '42

MCCALL'S magazine
Demand for color, bleed, and speed requires new equipment; McCall printing plant. C. C. Westland. il diags Inland Ptr 108:40-4 N '41
Women's war; McCall's magazine turns February cover to a pledge button. Business Week p58 Mr 7 '42

MCCORMICK, George, 1872-
George McCormick, D. Eng. pors Ry Mech Eng 116:15-18 Ja '42

MCCRORY stores corporation
Income account, 1938-1941. Comm & Fin Chr 155:2368 Je 22 '42

MCCULLOCH, Carleton Buel, 1871-
Litterateur, bon vivant and connoisseur. J. W. Thomson. East Underw 43:3 O 16 '42

MCDONALD, Angus D. 1878-1941
Sketch. por Ry Age 111:883-4 N 22 '41

MCDONALD, Stewart
New president of Maryland Casualty. por Nat Underw 45:23+ D 11 '41

MACEDONIAN question
American symposium on the Macedonian problem. 49p Central committee of the Macedonian political organization of the U.S, Canada, and Australia, 20 S. West st, Indianapolis '41

MCFARLAND, Earl, 1883-
Portrait. Mech Eng 64:337 My '42

MCGEOGH, John Alexander, 1897-1942
Sketch. C. E. Seashore. Science 95:293-4 Mr 20 '42

MCGRAW electric company
Outstanding stocks for income and profit. Mag of Wall St 70:440 Ag 8 '42

MACHETES. See Knives

MACHINE guns
Cartridge links for machine guns and automatic rifles. F. C. Duston. il diags plan Mach 49:123-38 O '42
Compressed air helps clean machine-gun barrels. il Comp Air M 47:6721 Ap '42
Machine guns; development of Colt's patent fire arms, the Gatling gun, the Maxim and Vickers, the Browning; modern example of Colt machine gun, MG 40 aircraft weapon. A. F. Macconochie. il diags Steel 109:58-60, 62+ N 17 '41
Rifle company weapons, U.S. army. P. S. Bond. 70p 25c P. S. Bond pub. co., Washington, D.C. '41
Small arms manual. J. A. Barlow. 216p 2s J. Murray, London '42

Manufacture

Aircraft machine guns replace automotive accessories at Brown-Lipe-Chapin plant. J. Geschelin. il Automotive & Aviation Ind 87:18-21+ Jl 1 '42
Famous Tommy gun made by self-contained plant. il Iron Age 150:54-60 Jl 2 '42
How Savage Arms makes the Browning machine gun. J. B. Nealey. il Iron Age 149:60-4 Mr 12 '42
Machine guns from task operations; Canadian war emergency training system. il Am Mach 86:404-8 Ap 30 '42
Making the Bren breech block. il diags Am Mach 86:290-2 Ap 2 '42
Rifling machine-gun barrels by broaching. il Mach 49:157-9 O '42
Schools pre-train workers; cooperation between the Saginaw steering wheel division of General Motors and the local schools. il diags Am Mach 85:1335-8 D 24 '41

MACHINE guns, Aircraft. See Guns, Aircraft

MACHINE parts
Alternate materials in product design; heavy machinery. H. L. Day. Metals & Alloys 15:71-2 Ja '42
Carbon offers solution to materials problems. F. W. Korfmann. il diags Machine Design 14:61-5+ My '42
Consider glass in meeting materials shortage. C. Carmichael. il diags Machine Design 14:85-9+ Ag '42
Cost factors governing design for plastics. J. Delmonte. il diags Machine Design 14:70-3 Mr '42
Deep drawing may answer your production problems. K. D. Moslander. diags Machine Design 13:64-8+ D '41
Does centrifugal casting offer the alternative? K. D. Moslander. il diags Machine Design 14:74-7+ Je '42
Drilling square and hexagon holes; Watts method for aircraft engine and other machine parts. O. K. Parmiter. il Iron Age 150:54-5 S 10 '42
Electric strain gages for measuring loads on machine parts. F. Mittelberger. il diags Product Eng 13:337-9 Je '42
Facts and fallacies of stress determination. J. O. Almen. il diags S A E J 50:52-61 F '42
Heat treating tips. G. B. Berlien. Iron Age 149:68-9 Mr 12 '42
Honing tools and related equipment. L. S. Martz. diags Mech Eng 63:865-9 D '41; Same cond. Steel 109:50-2 D 29 '41; Excerpts. Machine Design 13:66-7 N '41
How stampings may replace forgings in design. H. Chase. il Metals & Alloys 15:635 Ap '42
How to avoid overstress in machine parts; use of the electric strain gage. M. W. Hively. il diags Gen Elec R 44:621-3 N '41; Same. Steel 110:90+ My 18 '42
New parts and materials. Published in monthly numbers of Machine design
Powdered metals in machine design. il Mach 48:111-18 Ag; 49:148-52 S '42
Salvage specifications; summarizing methods of reclaiming defective parts. il diags Product Eng 13:78-80 F '42
Saving material by using tubing. W. A. Cather. diag Mach 48:125 F '42
Sintered parts; progress in fabrication from compressed porous powders. Automobile Eng 32:266-8 Jl '42
Small-part rapid dynamic-balancing machine. il diag Engineering 153:25-7 Ja 9 '42
Specification plating; recovery of over and under machined parts as well as worn parts: Platex, inc. T. E. Lloyd. il diag Iron Age 150:58-60 Jl 16 '42
Stopping a run; Caterpillar perfects plan to anticipate contractors' parts needs. Business Week p66 Ap 18 '42
Subcontracting helps speed the defense job. il Am Mach 85:1215-16 N 26 '41
Suggestions on the design of threaded parts. Mach 48:134 My '42
Surface hardening of highly stressed machine parts; abstract. H. Wiegand. Metals & Alloys 14:930 D '41
Welded construction; suggestions for typical machine parts. E. W. P. Smith. diags Product Eng 13:388-9 Jl '42

See also
Bearings
Bolts and nuts
Cams
Gearing

MACHINE shop management
Bullard's new reclamation system. R. D. Bullard. flow diag il diag Automotive & Aviation Ind 87:44-5+ Jl 15 '42; Same, without diags. Factory Management 100:107-8 Ag '42
Cannon mass produced ahead of schedule brings in more navy contracts for Pontiac Motor. il Am Mach 86:592-4 Je 11 '42
Contracts, prime and sub. G. T. Trundle, jr. Am Mach 86:151-3 Mr 5 '42

MACHINE shop management—*Continued*

Conversion without confusion. G. Hubbard. il Steel 110:82-3+ My 11 '42

Expands customary changeover methods to build many unfamiliar products; Ford motor company. il Am Mach 86:562-72 Je 11 '42

First auto plant converted goes in for diversification; Willys-Overland. il Am Mach 86:609-12 Je 11 '42

Flexibility features reorganized; manufacturing operations of the Pump engineering service corp. J. Geschelin. il Automotive & Aviation Ind 87:38-41+ Jl 15 '42

Gage and cutter conservation in Canada. il Am Mach 86:233-44 Mr 19 '42

Gets into gun production rapidly by subcontracting 462 out of 471 parts; Oldsmobile. il Am Mach 86:588-91 Je 11 '42

How one large company uses carbide tools on small-lot production. Mach 48:145 My '42

How to operate seven days per week. E. Caldwell. Iron Age 148:47-51 D 25 '41

How we subcontract; Westinghouse electric & manufacturing company. G. P. Longabaugh. il Am Mach 86:271-4 Ap 2 '42

Incentive for production; Ohio steel foundry co, roll turning and machine operations. J. M. Dugan and G. D. Griffiths. il Iron Age 150:56-60 Ag 20 '42

Increasing production without increasing facilities. Engineering 154:24-5 Jl 10 '42; Same cond. Engineer 174:8-9 Jl 3 '42

Making best use of the maintenance personnel; Monarch machine tool co., Sidney, Ohio. il Factory Management 100:135-6+ Ag '42

Planned to speed a war product; Ohio crankshaft plant. H. W. Sellers. il Factory Management 100:64-8 Ja '42

Practical wage incentive plan; Sullivan machinery co. H. F. Blake and F. A. Westbrook. Iron Age 148:51-5 D 4 '41

Salvaging worn tools; International harvester co. H. E. Fleming. il Steel 110:58-9+ F 23 '42

Using machines to fullest extent; Walter Kidde & company. C. A. Woodhall. il Factory Management 100:96-7+ Ag '42

War-production bottlenecks broken by brainwork. il Steel 110:38-41 Ap 13 '42

Weigh to get quick counts; scales determine output of screw machine operators on piece work. R. F. Nortman and W. S. Hansen. il Factory Management 100:65-6 Jl '42

See also

Assembling methods
Automobile engines—Manufacture
Foremen
Industrial management
Inspection
Machine shop practice
Machine shops—Employees
Machinery, Replacement of
Mechanical handling
Steel works
Tool rooms
Tools

MACHINE shop practice

Aircraft bomb fuzes; Westinghouse electric & manufacturing company. il diags Am Mach 85:1323-33 D 24 '41

Aircraft engines by Buick. il diags Am Mach 86:394-403 Ap 30 '42

Allison set for peak production; with layout. il diags Am Mach 86:165-77 Mr 5 '42

American industry shares its "know how" to reveal production shortcuts; demonstration by Westinghouse electric & mfg. co. il diags Steel 111:70-4 Jl 20 '42

Audels machinists and tool makers handy book. F. D. Graham. 1660p lea'tte $4 T. Audel & co, 49 W. 23d st, New York '42

Automotive methods on Oerlikon guns; Pontiac motor division of General Motors. il diags Am Mach 86:65-78 F 5 '42

Bench work and fitting. W. J. Peck. 74p $1.40 Pitman '41

Building turbines for ships in our permanent merchant fleet; Merchant marine division, Westinghouse electric & mfg. co. E. L. Spray. il Mach 49:172-9 N '42 (to be cont)

Cannon for aircraft; International harvester company. il diags Am Mach 86:715-29 Jl 9 '42

Carburettor production; specialised methods as applied to aircraft components. il diag Automobile Eng 32:218-24 Je '42

Cartridge links for machine guns and automatic rifles. F. C. Duston. il diags plan Mach 49:123-38 O '42

Combat trainers from Texas plains; North American aviation, inc. H. F. Schwedes. il Mach 48:188-97 Jl '42

Consolidated specializes on heavy bombers. H. Ezard. il Mach 48:205-14 Jl '42

Contour sawing of naval gun mounts. H. J. Chamberland. il Iron Age 150:46-9 Jl 9 '42

Control of tool shapes. J. C. Hinton. il diags Iron Age 148:67-72 D 18 '41

Converted lathes machine high explosive shell. il Am Mach 86:335-47 Ap 16 '42

Converted lathes win war work. B. Darcy. il Am Mach 86:826-8 Ag 6 '42

Crankshafts for the Wright Cyclone; Ohio crankshaft company. J. Geschelin. il Automotive & Aviation Ind 86:8-15 Mr 1 '42

Curtiss-Wright produces famous fighting planes. P. N. Jansen. il Mach 48:178-86 Jl '42

Developing an efficient procedure for machining motor shafts. C. J. Andersen. il Mach 48:136-8 Mr '42

Develops improved tooling to obtain greater war output at lower cost; Chevrolet motor division, General motors corporation. il Am Mach 86:581-5 Je 11 '42

Diesel engines for the seaways of the world; Nordberg manufacturing co. il Mach 49:188-91 N '42

Douglas blackout plant builds for victory. R. A. Steinbauer. il Mach 48:168-76 Jl; 49:170-2 O '42

Factory training manual. R. Pugh, ed. 286p 5s Management publications trust, Bath, Eng. '41

Fordson tractors; production of transmission units. il Automobile Eng 32:303-9 Ag '42

From printing presses to gun mounts; Goss printing press co. C. O. Herb. il Mach 48:121-30 Mr '42

Good tooling speeds jacks; illustrations and text. Am Mach 86:212-13 Mr 19 '42

Guns to arm our merchant marine; plant set up by the Pontiac motor division. C. O. Herb. il Mach 48:107-22 Ja '42

Hall-Scott marine engines aid invasion and defense. C. O. Herb. il Mach 49:121-34 S '42

Henry Ford trade school; shop theory. 265p $1.25 McGraw-Hill '42

High dynamic steel parts for locomotives; operations in machining; Timken roller bearing co. W. C. Sanders. il Mach 48:113-19 Je '42

High-speed compression molding; ignition systems of military cars. H. Chase. il Am Mach 86:154-6 Mr 5 '42

How Savage Arms makes the Browning machine gun. J. B. Nealey. il Iron Age 149:60-4 Mr 12 '42

How to get ahead in a defense plant. K. C. Hawthorne. 270p $2.50 Crowell '42

How to improve machine tool performance; electric tool-pressure gage. A. R. Hand. il diag Gen Elec R 44:605-7 N '41

Koppers propellers for driving the victory merchant fleet. S. W. Randolph. il Mach 49:158-63 N '42

Landing gear for fighting planes. J. Bemb. il diags Am Mach 86:115-26 F 19 '42

Large gears cut with a slotter. S. Koffsky. diags Iron Age 148:52-3 D 25 '41

Liberty ships are driven by triple-expansion steam engines; production methods employed by Hooven, Owens, Rentschler division of General machinery corporation. T. Gilmore and J. Mulcahy. il Mach 49:144-53 N '42

McCulloch superchargers in the making. J. Geschelin. il Automotive Ind 86:18-24+ Ja 1 '42

Machine shop mathematics. A. Axelrod. 368p $2.50 McGraw-Hill '42

Machine shop operations. J. W. Barritt. enl ed $6 Am. technical soc, Drexel av. & 58th st, Chicago '42

MACHINE shop practice—*Continued*

Machine shop practice. S. B. Hagberg, M. S. Corrington and R. M. Biehler. 311p $2.50 Harper '42

Machine shop work. J. T. Shuman and others. 499p $3.50 Am. technical soc, Drexel av, at 58th st, Chicago '42

Machine tools at work. C. O. Herb. 552p $4 Industrial press, New York '42

Machinery's handbook; for machine shop and drafting-room. E. Oberg and F. D. Jones. 11th ed 1815p $6 Industrial press, New York '42

Machining oil ring forgings. il Aviation 41: 125, 128, 131 S '42

Making the Bren breech block. il diags Am Mach 86:290-2 Ap 2 '42

Manufacturing processes. M. L. Begeman. 579p $4.50 Wiley '42

Manufacturing rivets for airplanes. M. W. Seavey. il diags Mach 48:105-12 My; 135-9 Je '42

Mass production of anti-aircraft gun carriages. J. B. Nealey. il Iron Age 149:52-7 Je 18 '42

Mathematics of the shops. F. J. McMackin and J. H. Shaver. 444p $2.50 Van Nostrand '42

Measuring gear tooth thickness. C. A. Young. il diags Am Mach 86:278-9 Ap 2 '42

New methods meet today's demands. il Am Mach 85:1193-7 N 26 '41

New methods on new motors; General electric company. C. J. Andersen. il Am Mach 86: 50-1 F 5 '42

Operations on 37-mm. high explosive shell. il diags Am Mach 86:837-48 Ag 6 '42

Pack howitzer production; General electric co. il diags Steel 109:50-2+ D 22 '41

Percussion fuze for small shell; Canadian plant. il diags Am Mach 86:447-62 My 14 '42

Pierce governor co. surmounts production problems due to war. J. Geschelin. il Automotive & Aviation Ind 87:36-9+ S 15 '42

Piston manufacture; Specialloid, ltd. il Automobile Eng 32:140-8 Ap '42

Pontiac concentrates on Oerlikon anti-aircraft guns. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ Ag 1 '42

Popular mechanics shop notes and mechanics guide. v39 216p pa 50c Popular mechanics co, 200 E. Ontario st, Chicago '42

Practical mechanics handbook. F. J. Camm. 4th ed rev 393p $4 Chemical pub. co. '42

Precision machining operations on the Cyclone 14 crankshaft. J. F. McCarthy. il plans Aero Digest 39:198, 201-2+ D '41

Production of jeeps, shells, and forgings at the Willys plant. J. Geschelin. il Automotive & Aviation Ind 87:20-5+ S 15 '42

Propeller plant workers devise means to utilize tools to utmost. il Steel 111:46-7+ S 28 '42

Ratefixing and estimating for engineers. J. C. Freeman. 128p $3 Pitman '41

Revolutionary changes; Spicer mfg. co. J. Geschelin. il Automotive Ind 85:36-41+ N 15 '41

Seventeen ways to speed production suggested by Westinghouse electric and manufacturing company. il Marine Eng 47:250-3 O '42

Shell for British 75-mm. guns; S. A. Woods machine company. L. E. Blood. il Am Mach 85:1217-30 N 26 '41

Shell fuzes by the million. il diags Am Mach 86:775-94 Jl 23 '42

Shop mathematics and shop theory. J. M. Amiss, G. K. Shurtleff and H. G. Moltzau. 372p $1.50 Dept. of industrial education, Chrysler corp, Detroit '42

Shop shots from aircraft plants. il Am Mach 86:770-1 Jl 23 '42

Shop theory. rev ed 267p pa $1.25 McGraw-Hill '42

Short cuts for the small shop (cont). A. H. Waychoff. il Am Mach 86:53, 211 F 5, Mr 19 '42

Simplified industrial mathematics. J. H. Wolfe, W. F. Mueller and S. D. Mullikin. 281p $2 McGraw-Hill '42

Special turret lathe tooling speeds up defense production; landing gear struts; Lockheed hydraulic brake co. T. J. Hudson. il diags Mach 48:152-3 Ja '42

Tank engines made on converted equipment. T. F. Rogan. il diags Am Mach 86:1236-43 O 29 '42

Tanks ahead of schedule; Chrysler corporation. il diags Am Mach 85:1267-80 D 10 '41

Tanks for the democracies roll from Chrysler's arsenal. C. O. Herb. il Mach 48:107-22 D '41

Tooling equipment in a machine tool plant; time-saving fixtures and set-ups; Delta mfg. co. il Mach 48:137-42 Ag '42

Tooling; strip it for action. G. Hubbard. il Steel 110:54-7 Ja 12 '42

Turning out 37-mm. shells on automatics. il diags Iron Age 150:50-4 Jl 9 '42

Units in the machining of metal. R. E. Smith. 127p bibliog(p127) pa $1 McCormick-Mathers pub. co. Wichita, Kan. '42

War-winning suggestions. diags Am Mach 86: 1228-31, 1292-5 O 29-N 12 '42

We ask why?—and save; work simplification, International industries, Ann Arbor. H. H. Kroll. il Factory Management 100:100-1 O '42

Working of high-nickel alloys; machining practice for high-nickel alloys. diags Am Mach 86:897-901 Ag 20 '42

Workshop practice; a practical work for the draughtsman, the mechanic, the pattern-maker, and the foundryman. W. H. Atherton, ed. 2d ed v 1-2 ea $3 Pitman '42

Workshop ways; a trainee's introduction to general workshop practice. A. C. Kelsall and A. E. Morgan. 64p 50c Longmans (Toronto) '41

See also

Airplane engines—Manufacture
Automobile engines—Manufacture
Bearings—Manufacture
Broaching
Chucks
Cylinders (engines, etc.)—Manufacture
Dies
Drafting room practice
Drilling and boring (metal working, etc.)
Electric driving
Forging
Foundry practice
Gages
Grinding
Guns (ordnance)—Manufacture
Hard facing
Indexing (machine work)
Lapping
Lathes
Locomotive shops
Machine shop management
Machine tools
Machinery
Metal cutting
Metal finishing
Milling
Railroads—Shops
Riveting
Rolling mills
Sheet metal work
Welding

Bibliography

Machine trades [folder]. Public library, Business and industrial dept, 120 W. Wayne st, South Bend, Ind.

Study and teaching

Bench power press; a war production training job. C. J. Starr. Board of vocational education, Springfield, Ill. '42

How to teach shopwork in vocational schools for war production industries. P. T. McHenry. 45p bibliog(p45) pa 25c McKnight & McKnight, Bloomington, Ill. '42

Instructor's guide. 39p bibliog(p39) Am. technical soc, Chicago '42

Lathe; job training units. 143p; Job checksheet answers for The lathe. 7p Am. technical soc, Drexel av. at 58th st, Chicago '42

Small drill vise; a war production training job. C. J. Starr. Board of vocational education, Springfield, Ill. '42

Training within industry; Westinghouse labor training trades courses. C. D. Moore. il Am Mach 86:79-80 F 5 '42

MACHINE shops

Five-man shop tackles precision work, develops into important sub-contractor. A. W. Jessup. Am Mach 86:466h My 14 '42

Idle tools work for Hitler; many small shops can make war products. J. Haydock. Am Mach 86:105-6 F 19 '42

MACHINE shops—*Continued*

It can be done! Scott aviation corporation, formerly part-time basement machine shop, now producing aircraft instruments. il Aviation 41:217+ Jl '42

Machine shop pools on Pacific coast. C. F. Berry. Barron's 21:5 D 22 '41

New practices aid reclaiming of used oil-field equipment; oil-country machine shops. N. Williams. il Oil & Gas J 41:29-30 S 3 '42

War story: two men and a dog. il Business Week p38 S 5 '42

See also

Automobile factories
Electric driving
Locomotive shops
Machine shop management
Machine shop practice
Machine tools
Railroads—Shops

Accounting

See Factories—Accounting

Electric equipment

How to avoid overstress in machine parts; use of the electric strain gage. M. W. Hively. il diags Gen Elec R 44:621-3 N '41; Same. Steel 110:90+ My 18 '42

Increase visibility with underfloor duct; McCulloch engineering company. il Elec W 117:505 F 7 '42

Employees

Calling all men; Warner & Swasey co. training of specially skilled workmen. il Business Week p66-7 Je 27 '42; Same cond. Management R 31:306-8 S '42

Effective way of instructing machine shop operators. W. L. Bond. il Mach 49:162-4 S '42

Hiring and training women for war work; Ford bomber plant, Willow Run, Mich. il Factory Management 100:72-3 Ag '42; Same. Management R 31:309-10 S '42

Machine guns from task operations; Canadian war emergency training system. il Am Mach 86:404-8 Ap 30 '42

Make use of the experience and skill of older men to speed war work. G. T. Trundle, jr. Mach 48:189 Ap '42

Making best use of the maintenance personnel; Monarch machine tool co., Sidney, Ohio. il Factory Management 100:133-6+ Ag '42

Movies without stroboscopic action; training machine operators. il Am Mach 86:699-700 Je 25 '42

New war workers assimilated through paid advertising; Gisholt machine co. il Ptr Ink 199:26 Je 19 '42

Schools pre-train workers; cooperation between the Saginaw steering wheel division of General Motors and the local schools. il diags Am Mach 85:1335-8 D 24 '41

Sound film shows proper grinding, setting of tools. il Steel 110:70 Ap 13 '42

Thompson Products training programs. R. W. Bender. il Iron Age 150:74-8 O 22 '42

Training for the future; Landis tool company. F. A. Firnhaber. Am Mach 86:282-4 Ap 2 '42

Training in a job shop. H. Boyar. il Am Mach 86:329-30 Ap 16 '42

Woman in the shop; Vultee aircraft. G. S. Hastings. il Factory Management 100:90-1 Je '42

Women's factory; Republic drill & tool co. has adapted plant processes and redesigned its machines. Business Week p20+ Jl 4 '42

Equipment

Boeing builds Flying Fortresses to bomb the enemy. C. O. Herb. il Mach 48:198-204 Jl '42

Carburettor production; specialised methods as applied to aircraft components. il diag Automobile Eng 32:218-24 Je '42

Combat trainers from Texas plains; North American aviation, inc. H. F. Schwedes. il Mach 48:188-97 Jl '42

Consolidated specializes on heavy bombers. H. Ezard. il Mach 48:205-14 Jl '42

Crankshafts for the Wright Cyclone; Ohio crankshaft company. J. Geschelin. il Automotive & Aviation Ind 86:8-15 Mr 1 '42

Curtiss-Wright produces famous fighting planes. P. N. Jansen. il Mach 48:178-86 Jl '42

Douglas blackout plant builds for victory. R. A. Steinbauer. il Mach 48:168-76 Jl; 49:170-2 O '42

Finds adequate tooling costs no more than makeshift or dirt-floor methods; Buick division, General motors corporation. il diags Am Mach 86:574-7 Je 11 '42

Hall-Scott marine engines aid invasion and defense. C. O. Herb. il Mach 49:121-34 S '42

Machine-shop operations; reclamation of waste. R. Bullard. flow diag il plan Mech Eng 64:457-8 Je '42

Machinery-plant salvage system. R. D. Bullard. flow diag plan Metals & Alloys 16:260-1 Ag '42

Monorail handling system saves time and money in die shop; I. J. Frindt co. il plan Steel 110:90+ My 25 '42

New equipment; presses and press room accessories. il Iron Age 150:65-8 Ag 6 '42

Operations on 37-mm. high explosive shell. il diags Am Mach 86:837-48 Ag 6 '42

Piston manufacture; Specialloid, ltd. il Automobile Eng 32:137-48 Ap '42

Pontiac concentrates on Oerlikon anti-aircraft guns. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ Ag 1 '42

Shop shots; illustrations with text. Am Mach 86:6-7, 324-5, 1168-9 Ja 8, Ap 16, O 15 '42

Timken tapered roller bearings speed up railway transportation. W. C. Sanders. il Mach 48:174-9 Ap '42

29th buyers reference number. il diags Am Mach 86:81-356 Ja 22 '42

See also

Locomotive shops—Equipment
Machine tools

Heating and ventilation

Balloons in reading temperatures; raising thermometers to various levels, in testing gas heaters in machine shop. diags Sheet Metal Worker 33:42+ O '42

Gas heat aids windowless machine shop. G. H. Watson. il Gas Age 90:24-5 Ag 27 '42

Layout

Planned to speed a war product; Ohio crankshaft plant. H. W. Sellers. il Factory Management 100:64-8 Ja '42

Lighting

Improved vision in machine tool operations by color contrast. A. A. Brainerd and M. Denning. il diags Illum Eng 36:1397-1409 D '41; Excerpts. Elec W 117:324+ Ja 24 '42; Discussion. Illum Eng 36:1409-13 D '41

Records

Gage and cutter conservation in Canada. il Am Mach 86:233-44 Mr 19 '42

Safety measures

Built-in safety; modern machine tools. T. Berna. il Safety Eng 83:16-19 My '42

Camouflage in reverse; painting machine tools improve vision and decrease hazard. il Safety Eng 84:9-10+ S '42

Paint marks the spot; painting machine tools in bright contrasting colors to improve vision. A. Perry. il Nat Safety N 45:12-13+ My '42

Setting up and removing power press dies; hazards and safety measures. Nat Safety N 46:52, 54 S '42

Strategy for safety. A. M. Cooper. il Am Mach 86:819-21 Ag 6 '42

Tetragonal martensite, or Don't lose your eye; danger in striking hardened steel with hammer. il Safety Eng 83:31 My '42

Unsung heroes; safety cartoons. Am Mach 86:648-9 Je 25 '42

MACHINE tool dealers of America, Associated. See Associated machine tool dealers of America

MACHINE tool industry

Healthy, prosperous, strong, this company faces ruin; case study of tool manufacturer dramatizes how 94 per cent excess profits tax menaces numerous small businesses. G. A. Nichols. Ptr Ink 200:21+ Jl 10 '42

Machine tool maker's dilemma; Warner & Swasey has boosted turret-lathe production 700 per cent; what happens to W. & S. while they are wearing out? il Fortune 26:104-7+ O '42

Tool industry keeps its salesmen: they've become bottleneck busters. il Sales Management 50:62-4 F 15 '42

Tools over top? Business Week p19-20 Ag 15 '42

Advertising

Frozen action photos gain attention for Pratt & Whitney in lieu of case studies. E. C. Shultz. il Ind Marketing 27:28-9+ Jl '42

Post-war markets being built with human industrial advertising; R. K. LeBlond machine tool co. il Ptr Ink 198:22-3, 56-7 F 27 '42

Finance

Record volume ahead for machinery and equipment. il Mag of Wall St 69:487-91+ F 7 '42

SEC issues industry reports on manufacturers of machine tools, metal working machinery, etc. Comm & Fin Chr 154:1342 D 4 '41

Service

Tool conservation control plan; Henry Disston & sons. Business Week p44 Ja 3 '42

Used machines

Rebuilt machine tools vital today; J. L. Lucas & son. il Iron Age 148:43-6 D 25 '41

Great Britain

Annual economic review of the British engineering industry. A. M. de Neuman. Engineer 173:46 Ja 16 '42

Engineering outlook; machine tools. Engineering 153:223 Mr 20 '42

India

India's manufacture of machine tools. For Comm W 9:28-9 O 31 '42

United States

All-out operation; Monarch's 3-shift program. Business Week p85-6 Jl 25 '42

Changing pattern of industry. il Adv & Sell 35:34, 37 Ag '42

Machine tool industry's 1941 output to surpass goal of $750,000,000. Steel 109:37 D 29 '41

Machine-tool job. Business Week p14-15 D 27 '41

Machine tool production 61 per cent ahead of first six months in 1941. Steel 111:25 Ag 24 '42

Machine tool situation. Barron's 22:12 Ap 6 '42

Machine tools an arms bottleneck. Survey of Cur Business 22:4-5 Ja '42

Machine tools and aircraft. T. Berna. il Aero Digest 40:183-4, 187 F '42

Machine tools behind the war. F. J. Oliver. Iron Age 149:94-101+ Ja 1 '42

Machine tools fight the battle of production. il Am Mach 85:sup1-16, 1185-1216 N 26 '41

Machine tools in this war; how our shops are turning to war production. A. H. Tuechter. Credit & Fin Management 44:21-2 Je '42

Machine tools; output will exceed billion dollars in next 12 months. il Steel 110:234-5+ Ja 5 '42

OPA establishes machine tool price ceiling at level of Oct. 1. Am Mach 86:84e F 5 '42

Order E-1-b amended to add new groups of service purchasers; controls production and delivery of new critical machine tools. Iron Age 150:136 S 17 '42

Record volume ahead for machinery and equipment. il Mag of Wall St 69:487-91+ F 7 '42

Redealing tools; stamp plan for allocation of output. Business Week p16-17 Ap 18 '42

Subcontracting helps speed the defense job. il Am Mach 85:1215-16 N 26 '41

Today's machine tools, machinery and mechanized war. R. E. W. Harrison. Engineer 172:259-61 O 17 '41

Tooling up for victory; automotive, aircraft, and machine tool industries join. G. H. Johnson. il Automotive & Aviation Ind 87:88-91+ O 1 '42

Tools beget tools. Business Week p19-20 F 28 '42

War production problems. G. H. Johnson. Mach 48:154-5 My '42

See also Associated machine tool dealers of America

MACHINE tools

All tools seizable. Business Week p34 D 20 '41

American machine tools have big role producing British single sleeve valve aircraft engines. il Automotive & Aviation Ind 86:18-22+ Mr 1 '42

Automatic tooling speeds production in the new Wright aero plant. H. E. Linsley. il Mach 48:109-18 F '42

Barney machinery offers complete line of heavy machines for shell production. il Am Mach 86:249-50 Mr 19 '42

Converting single-spindle automatics to speed up bearing production; Timken roller bearing co. il Mach 48:136-8 F '42; Automotive & Aviation Ind 86:41 F 1 '42; Steel 110:70 F 2 '42

Day after tomorrow; interview with F. W. Curtis. A. P. Peck. Sci Am 167:206 N '42

Dry machining of magnesium alloys; British practice. H. M. Garner. diags Iron Age 150:52-4 Jl 23 '42

Engineering tools and processes; a study of production technique. H. C. Hesse. 627p bibliog(p559-77) $4.50 Van Nostrand '41

Excess machine capacity offers an opportunity for service; idle hours of machine tools in railroad shops can be used in defense work. H. C. Wilcox. Ry Age 112:49 Ja 3 '42

Foundation of production; plastic machine tools. L. T. Bordner. il diags Mod Plastics 20:68-72 S '42

Giddings & Lewis completes large machine with 4 heads for boring, drilling, milling. il Am Mach 85:1237 N 26 '41

Hints on hydraulics. J. Sasso. il Am Mach 86:326-8 Ap 16 '42

How can we accelerate the armament program? R. T. Kent. Mach 48:127-30 D '41

Iron Age critical tool locating chart. Iron Age 150:143 O 22 '42

Jigs, tools and fixtures. P. Gates. 2d ed enl 209p $4 Chemical pub. co. '41

Large percentage of old machines used despite radical difference in parts; Cadillac motor car division of General motors corporation. il Am Mach 86:578-80 Je 11 '42

Machine tools at work. C. O. Herb. 552p $4 Industrial press, New York '42

Machine tools for production of small arms. il Engineer 172:379-80 N 28 '41

Machine tools, old and new, in defense production; abstract. F. C. Dull. Mach 48:145 D '41

Machining, 1941 and current trend. N. E. Woldman. il Metals & Alloys 15:56-7 Ja '42

Mars rules metal-working trends. il Am Mach 86:77-8 Ja 22 '42

Mobilizing tools; problem WPB is attacking through CTS. Business Week p83-5 O 17 '42

Modern machine tools; their hydraulic, electrical, and mechanical transmission and operation. H. C. Town. 196p $10 Pitman '41

More work from existing tools to increase production. C. J. Stillwell. Sci Am 166:64 F '42

New equipment. il Iron Age 148:54-8 D 25 '41; 149:52-4 Ja 8; 52-3 Ja 22; 65-8 Ap 2; 69-73 Ap 9; 150:61-4 Ag 20; 66-9 S 3; 65-8 N 12 '42

Ohio universal superfinishing machine. il Engineering 154:226-7 S 18 '42

MACHINE tools—*Continued*

Production research; third annual report of executive committee of Research department of Institution of production engineers. Engineering 154:335-6 O 23 '42

Propeller plant workers devise means to utilize tools to utmost. il Steel 111:46-7+ S 28 '42

Seventy-seven machining operations performed by automatic multiple-station equipment. il Mach 48:155 D '41

Sharing the tools; yield of surplus equipment from the auto plants falls below expectations. Business Week p26+ S 19 '42

Shell fuzes by the million. il diags Am Mach 86:775-94 Jl 23 '42

Shop theory. rev ed 267p pa $1.25 McGraw-Hill '42

Shutters and cutters; high-speed motion-picture photography used in study of machine-tool cutting edges. B. L. McKenzie. il Sci Am 166:60-2 F '42

Single spindle automatics adapted for larger work; Timken roller bearing co. il Iron Age 149:63 F 26 '42

Small-arms barrel-finishing machines. il Engineering 152:506 D 26 '41

Small but mighty; light-duty power tools. Business Week p82+ S 19 '42

Solving the huge machine tool problem of conversion. E. L. Warner, jr. Automotive & Aviation Ind 86:17+ Ap 1 '42

Some applications of hydraulic operation to machine tools. il diags Mach 47:127-8 Ag; 48:141-3 S; 146-9 D '41

Stamets bomb boring, facing, and tapping machine. il Mach 49:196 S '42

Successful method of putting idle equipment to work on munitions. Mach 48:204 Ap '42

Technical progress paces victory march. Steel 110:331-2+ Ja 5 '42

Timken builds single-spindle automatic which handles parts 10 inches in diameter. il Am Mach 86:533 My 28 '42

Tool engineer and national defense. I. A. Swidlo. il Am Mach 86:209-10 Mr 19 '42

Tooling up for victory; automotive, aircraft, and machine tool industries join. G. H. Johnson. il Automotive & Aviation Ind 87: 88-91+ O 1 '42

Tools sub for skill; Jacobs aircraft engine co. makers of aircraft engines devise machines enabling green hands to do work of expert mechanics. il Business Week p48-50 N 15 '41

20-mm. shells made on improvised machine tools. diags Iron Age 149:44-7 Je 25 '42

29th buyers reference number. il diags Am Mach 86:81-120 Ja 22 '42

Using carbides on large machines. F. W. Lucht. diags Iron Age 149:60-1 Je 11 '42; Same. Aero Digest 41:156+ Ag '42; Same. Ry Mech Eng 116:357-8 Ag '42; Same. Steel 111:84-6 Ag 24 '42

Wickman high-speed precision automatic. il Mach 48:163 F '42

See also

Bending machines
Broaching machines
Chucks
Cutting tools
Drilling and boring machinery
Feed mechanism
Gear cutting machines
Grinding machines
Lathes
Machine shop practice
Machine tool industry
Metal cutting
Milling cutters
Milling machines
Planing machines
Pneumatic tools
Polishing machines
Reamers
Saws, Metal working
Screw machines
Shears (machines)
Tool steel

Color

Improved vision in machine tool operations by color contrast. A. A. Brainerd and M. Denning. il diags Illum Eng 36:1397-1409; Discussion. 1409-13 D '41

Control

Build in controls for wartime economy! R. S. Elberty. il Machine Design 14:103-5 Ap '42

Electro-hydraulic unit gives sensitive control. il diags Machine Design 13:70-1 D '41

Hydraulic remote control. diag Mach 48:192-3 Ap '42

Design

Alternate materials in product design. T. Berna. Metals & Alloys 15:70-1 Ja '42

Built-in safety; modern machine tools. T. Berna. il Safety Eng 83:16-19 My '42

Drafting for machine trades. 5v $19.80 Am. technical soc, Chicago '41

Mass production for the aircraft-engine industry; Greenlee automatic transfer machines; Wright aeronautical corporation. H. E. Linsley. il diags Mech Eng 64:100-5 F '42

Production engineering; jig and tool design. E. J. H. Jones. 304p $5 Chemical pub. co. '41

Single-purpose machine tools for war-time production. il Engineering 153:265-7, 326-7, 330 Ap 3, 24 '42

Tool design; fundamental principles of design as applied to tooling for production. C. B. Cole. 498p $4.50 Am. technical soc, Chicago '42

War broadens scope of designers. K. D. Moslander. il Machine Design 14:53-4+ My '42

Electric driving

A-c drive simplifies speed control; metal cutting band saws. L. W. Herchenroeder. diags Machine Design 14:162+ Ap '42

Build in controls for wartime economy! R. S. Elberty. il Machine Design 14:103-5 Ap '42

Continuous power for marine gear cutting. A. A. Ross. il diag Elec W 116:1742, 1744 N 29 '41

Delta-star starting. W. Acton. Elec R (Lond) 131:296 S 4 '42

Electrical drives for wide speed ranges; addition of rotating regulator called Rototrol. G. A. Caldwell and W. H. Formhals. bibliog il diag Elec Eng 61:Trans 54-6 F '42

Electricity in the engineering industry. H. H. Sennett. Inst E E J 89 pt 1:193-7 Ap '42

Electronic motor control changes cutter feed in mid-cycle. il diags Product Eng 13:626-8 N '42

Electronic rectifiers applied to machine tools. il Iron Age 150:49 Ag 6 '42

Eliminating power wastage; the value of foot-switch control. D. T. Naylor. Elec R (Lond) 131:305 S 4 '42

Emergency power supply for continuous machining; DeLaval turbine co. H. M. Martin. il diag Power Pl Eng 46:82-3 N '42

Graphite as a lubricant for high speed tool drives. R. C. Newbury. il diag Iron Age 149: 44-6 Mr 5 '42

Holds surface speed constant; patent assigned to Doran brothers. diag Machine Design 14:148+ Je '42

Machine-tool driving; applications to aero-engine production. il Elec R (Lond) 131: 197-201 Ag 14 '42

Machine tool electrical standards; reference book sheets. diags Am Mach 85:1283, 1285, 1339, 1341; 86:31, 33 D 10 '41-Ja 8 '42

Machine-tool motors; choosing most suitable type. il Elec R (Lond) 129:735-6 D 26 '41

Machine tool motors; types for various drives. Electrician 128:28 Ja 9 '42

Machine tools completely wired before installation. Mach 49:190 O '42

Metal-cutting forces and power requirements for machine tools. O. W. Boston. Automotive & Aviation Ind 86:30-4 My 15 '42; Same. Machine Design 14:79-83 Je '42

Norfolk shop modernizes; individual machine drive instead of belt drive. il Transit J 86: 30-1 Ja '42

Progress of machine electrification; abstract. C. E. Greene. Am Mach 86:488-90 My 14 '42

Reducing break-down rate. H. Greaves. Electrician 129:163-4 Ag 14 '42

Rejuvenating an old miller; applying all-electric, adjustable-speed drive. il Iron Age 149:62 Ap 30 '42

Save time by machining turbine shaft in position; using 25-cycle power to motor a 60-cycle generator at low speed. F. I. Morgan. il Power 86:390-1 Je '42

Simple feed for multiple-tool drive; Jacobs manufacturing company. il Elec W 117:668 F 21 '42

Watch that motor! W. W. McCullough. il Am Mach 86:431-3 My 14 '42

MACHINE tools—Electric driving—*Continued*

Westinghouse holds seventh machine tool electrification forum, April 6-7. Iron Age 149:57-60 Ap 16 '42

Which drive serves best for speed control? G. A. Caldwell. diags Machine Design 14: 71-6 My '42

Fixtures

Adaption of Castaloy fixtures to airplane production requirements. H. G. Groehn. il Aero Digest 41:197-8, 201-2, 207+ S '42

Boring bars, pilots, special tools. J. G. Jergens. diags Am Mach 86:280-1 Ap 2 '42

Boring fixture for small part. D. A. Baker. diag Mach 49:168 S '42

Castaloy fixtures unify aircraft production; tools, fixtures and gages made from Cerrobend. C. S. Ricker. il Aviation 41:106-9 Ag '42

Equalizing fixture for multiple work. D. Baker. diags Am Mach 86:12 Ja 8 '42

Equalizing multiple clamping device for milling and grinding fixtures. C. Golosman and D. Golosman. diags Mach 48:140-1 F '42

Fixture for angle grinding dies. J. Lock. diags Am Mach 86:835-6 Ag 6 '42

Fixture for detecting concentricity. J. Kautsky. diags Am Mach 86:1229-30 O 29 '42

Fixture for holding round stock while milling or drilling. P. Veraa. diags Mach 49: 167 S '42

Fixture for offset turning. F. H. Colvin. diag Am Mach 85:1265 D 10 '41

Fixture helps tap vulcanized fiber washers. C. H. Willey. diags Am Mach 86:446 My 14 '42

Fixture rotates on hydraulic lift. J. A. Raught. diag Am Mach 86:656 Je 25 '42

Gaging set-ups of the fixture type. F. Server. diag Mach 49:168-9 O '42

Giant fixtures speed tank output; illustrations. Steel 111:55 Ag 3 '42

Holder handles heavy-duty boring. W. A. Rowell. diags Am Mach 86:445 My 14 '42

How to avoid special shoulder screws. E. Grosz. diags Am Mach 86:223 Mr 19 '42

Jig and fixture details. J. G. Jergens. diags Am Mach 86:704-5, 768-9, 824-5, 876-7 Jl 9-Ag 20 '42

Modern machines produce Vega's jigs and fixtures; illustrations. Mach 48:136-7 D '41

Planing tool for undercuts. F. H. Colvin. diag Am Mach 86:58 F 5 '42

Plastic assembly jigs and fixtures. W. D. Lewis. il Iron Age 150:78-81 O 1 '42

Pneumatic holding fixtures speed tapping operations. il Comp Air M 47:6717 Ap '42

R. G. Haskins develops air-controlled holding fixtures for clamping work in air-controlled tapping machines. il Am Mach 86:540+ My 28 '42

Relieving tooling bottlenecks with plastics; Formrite method of making dies, jigs and fixtures. L. Weiss. il diags Aviation 41: 114-21 O '42

Shaper fixture for machining special cams. L. Kasper. diags Mach 48:153-4 Mr '42

Tank engines made on converted equipment. T. F. Rogan. il diags Am Mach 86:1236-43 O 29 '42

Tool and holder for form-turning copper band on shells. D. A. Baker. diags Mach 48:137 My '42

Universal drilling fixture for light work. J. R. Henderson. diags Mach 48:137-8 Ja '42

History

Machines to build machines; lathes and planers forerunners of machine tools of today. L. L. Thwing. il diags Tech R 44: 175-7+ F '42

Lubrication

Lubrication keeps production rolling; Warner & Swasey company. N. Swenson. il Am Mach 85:1138-40 N 12 '41

Manufacture

Billion dollar business. il Mod Plastics 19: 50-1 Jl '42

Earnings in the manufacture of machine tools, 1942. H. R. Hosea. Monthly Labor R 55:802-9 O '42

Machine tools fight the battle of production. il Am Mach 85:sup 1-16, 1185-1216 N 26 '41

Make machine tool castings in highly modern foundry; Cincinnati milling machine co. P. Dwyer. il Foundry 70:66-8+ N; 76-9+ D '42

New plants of 1941; machine tools. il Factory Management 100:B70-B71 Ap '42

Precise heat treating enables carbon steel parts to meet critical machine tool requirements. F. W. Curtis. il diags Steel 111:72-4, 76+ Ag 3 '42

Precision measurements; E. H. Jones (machine tools) ltd. standards room. il Automobile Eng 32:179-81 My '42

Seamless steel tubing in light machine tools. R. G. Schaaf, jr. il diags Iron Age 150:46-50 S 24 '42

Speeding machine tool production; skid-lift-truck system at Kearney & Trecker's. flow chart il Iron Age 148:59-62 N 20 '41

Speeding up the seasoning of castings. Mach 49:147 S '42

Tooling equipment in a machine tool plant; time-saving fixtures and set-ups; Delta mfg. co. il Mach 48:137-42 Ag '42

War demands speed pouring of machine tool castings. il Foundry 70:58-62 Ag '42

Women on production at Monarch. W. E. Whipp. il Iron Age 150:59-63 N 5 '42; Same cond. Am Mach 86:1213-15 O 29 '42; Same cond. Mach 49:222-5 N '42

Painting

See Machinery—Painting

Prices

OPA establishes machine tool price ceiling at level of Oct. 1. Am Mach 86:84e F 5 '42

Price schedule; second hand machine tools. Iron Age 149:124 Ja 1 '42

Reconstruction

Converted lathes win war work. B. Darcy. il Am Mach 86:826-8 Ag 6 '42

Didn't wait for new machines; revamped the ones they had; Chrysler corporation. il Am Mach 86:549-61 Je 11 '42

Harvester salvages worn machines in special shop. il Steel 110:38 Je 8 '42

How Chrysler rebuilt 44 machines assigned to storage; gear finishes made into milling machines. il Automotive & Aviation Ind 86: 32-3 Je 1 '42

New machines from old; Simmons machine tool corporation. il Am Mach 86:942-3 S 3 '42

Old machines rebuilt for war work; International harvester company. H. E. Fleming. il Am Mach 86:1224-6 O 29 '42

Rebuilt machine tools vital today; J. L. Lucas & son. il Iron Age 148:43-6 D 25 '41

Standard tools speed conversion. D. M. Pattison. il Am Mach 86:1003-5 S 17 '42

Standards

Machine tool electrical standards; reference book sheets. diags Am Mach 85:1283, 1285, 1339, 1341; 86:31, 33 D 10 '41-Ja 8 '42

Special electrical specifications for machine tools banned by WPB. Steel 111:55 Jl 20 '42

War standard coordinates requirements for machine tool electrical connections. B. P. Graves. il Ind Stand 13:185-8 Jl '42

MACHINE work

Fabrication of polystyrene; machinability. H. E. Griffith. il diag Mod Plastics 20:79+ N '42

Generating flat surfaces. E. V. Wait. diags Engineering 152:381-3 N 14 '41

Grinding and machining cast resins. C. E. Holmes. diags Mod Plastics 20:76-7+ S '42

Machining acrylic plastics. W. J. Antener. il Mod Plastics 20:72-3, 76+ O '42

Machining forged A.P. shot; centerless grinding forged bar stock. J. B. Nealey. il diags Iron Age 150:39-44 Jl 30 '42

Machining laminated plastics. H. Chase. il Am Mach 86:434-7 My 14 '42

Machining 37-mm. gun barrels; illustrations with text. Iron Age 149:42-5 Mr 19 '42

MACHINE work—*Continued*

Materials handling emphasized in automatic machining line; General electric co. frame for watt-hour meter. il Steel 109:64, 67 N 17 '41

Seamless tube or bar stock? Am Mach 86: 767 Jl 23 '42

Technical progress paces victory march. Steel 110:331-2+ Ja 5 '42

See also

Automobiles—Manufacture
Broaching
Centering (machine work)
Dividing (machine work)
Drilling and boring (metal working, etc.)
Grinding
Indexing (machine work)
Machine guns—Manufacture
Machine shop practice
Metal cutting
Milling
Polishing
Time study (of machinery)

Tables, calculations, etc.

Draft in inches for die clearance angles; reference book sheet. W. J. Woodworth and P. T. Woodworth. Am Mach 86:1189, 1191, 1251 O 15-29 '42

MACHINE works

Concrete and laminated wood framing; machine shop, built by the Defense plant corp. il diags Eng N 129:566-8 O 22 '42

Machine tool companies build bigger plants. il Am Mach 85:1185-9 N 26 '41

New plants of 1941; machine tools. il Factory Management 100:B70-B71 Ap '42

Rebuilt machine tools vital today; J. L. Lucas & son. il Iron Age 148:43-6 D 25 '41

Sterling engine production for war boats. il Automotive & Aviation Ind 86:26-30 Ap 1 '42

Typical American free enterprise celebrates its fiftieth anniversary; Axelson manufacturing co. il Mach 48:194-5 Ap '42

Window design saves critical materials; Simmons machine tool corp. S. Koffsky. il Eng N 129:353 S 10 '42

See also

Diesel engines—Manufacture
Machine shops
Rolling mills

Electric equipment

Capacitors aid machine plant; Geometric tool company. il Elec W 117:1497-9 My 2 '42

Employees

Earnings in manufacture of miscellaneous industrial machinery, 1942. H. R. Hosea, O. C. Clark and G. E. Votava. Monthly Labor R 55:306-13 Ag '42

Earnings in manufacture of oil-field machinery, February-March 1942. O. C. Clark and G. E. Votava. Monthly Labor R 55: 578-84 S '42

Earnings in the agricultural-machinery industry, 1942. H. R. Hosea and others. Monthly Labor R 54:1177-86 My '42

Earnings in the construction-machinery industry. H. R. Hosea and others. Monthly Labor R 55:117-23 Jl '42

Earnings in the manufacture of machine tools, 1942. H. R. Hosea. Monthly Labor R 55:802-9 O '42

Earnings in the mining machinery and equipment industry, 1942. H. R. Hosea, O. C. Clark and G. E. Votava. Monthly Labor R 54:1367-73 Je '42

Earnings in the textile-machinery industry, 1942. H. R. Hosea and others. Monthly Labor R 55:107-16 Jl '42

New men trained for production. il Am Mach 85:1204-8 N 26 '41

Tests for personnel selection; R. G. LeTourneau co. G. B. Arthur, jr. il Am Mach 86: 101-4 F 19 '42

Vestibule school for greater war production; Warner & Swasey co. W. Seeley. il Iron Age 150:60-2 S 10 '42

Wages in military-tank assembly shops, August 1942. H. M. Douty and W. H. Weidowke. Monthly Labor R 55:697-9 O '42

Women on production at Monarch. W. E. Whipp. il Iron Age 150:59-63 N 5 '42; Same cond. Am Mach 86:1213-15 O 29 '42; Same cond. Mach 49:222-5 N '42

See also

Machine shops—Employees

Equipment

Automobile-body stamping plant builds boring mills for tank production. il Mach 49: 149-54 O '42

Building turbines for ships in our permanent merchant fleet; Merchant marine division, Westinghouse electric & mfg. co. E. L. Spray. il Mach 49:172-9 N '42 (to be cont)

Builds machine tools faster with modern mechanical materials handling aids; Warner & Swasey co. C. L. Peterson. il Steel 110: 73-4+ F 9 '42

Clark equipment co.; new manufacturing facilities; axle and transmission divisions. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ S 1 '42

Fordson tractors; production methods. il Automobile Eng 31:435-42 D '41

From printing presses to gun mounts; Goss printing press co. C. O. Herb. il Mach 48: 121-30 Mr '42

Improved facilities air production. il Am Mach 85:1212-14 N 26 '41

Liberty ships are driven by triple-expansion steam engines; production methods employed by Hooven, Owens, Rentschler division of General machinery corporation. T. Gilmore and J. Mulcahy. il Mach 49:144-53 N '42

McCulloch superchargers in the making. J. Geschelin. il Automotive Ind 86:18-24+ Ja 1 '42

Mechanized handling speeds tractor manufacture; International harvester company. il Steel 109:67-8 D 22; 70-2 D 29 '41

New methods meet today's demands. il Am Mach 85:1193-7 N 26 '41

Old machines rebuilt for war work; International harvester company. H. E. Fleming. il Am Mach 86:1224-6 O 29 '42

Pierce governor co. surmounts production problems due to war. J. Geschelin. il Automotive & Aviation Ind 87:36-9+ S 15 '42

Precision measurements; E. H. Jones (machine tools) ltd. standards room. il Automobile Eng 32:179-81 My '42

Producing Westinghouse equipment for electric and Diesel locomotives. R. H. Timmons and J. A. Dorsner. il Mach 48:142-9 Ap '42

Reclamation process proves valuable; Caterpillar tractor co. il Foundry 70:99+ Jl '42

Speeding machine tool production; skid-lift-truck system at Kearney & Trecker's. flow chart il Iron Age 148:59-62 N 20 '41

Tank engines made on converted equipment. T. F. Rogan. il diags Am Mach 86:1236-43 O 29 '42

Tanks for the democracies roll from Chrysler's arsenal. C. O. Herb. il Mach 48: 107-22 D '41

Tooling equipment in a machine tool plant; time-saving fixtures and set-ups; Delta mfg. co. il Mach 48:137-42 Ag '42

Well planned materials handling in manufacture of steam steering engines; Webster-Brinkley co. il Steel 110:83-4 Mr 9 '42

See also

Machine shops—Equipment
Machine tools

Layout

Factories laid out to produce larger lots. il Am Mach 85:1190-2 N 26 '41

Speeding machine tool production; skid-lift-truck system at Kearney & Trecker's. Iron Age 148:60 N 20 '41

Management

Falk substitution record. il Product Eng 13: 246 Ap '42

Handling war material sub-contracts efficiently; American machine and foundry co. H. L. Horton. Mach 48:147-50 Ja '42

MACHINE works—Management—*Continued*

How one manufacturer meets increased wartime demands; American engineering company manufactures marine auxiliaries. J. S. Bennett. il Marine Eng 47:243 O '42

How we doubled production; standardized parts, rearranged equipment, better production control system; Monarch machine tool company. P. A. Abe. il Factory Management 100:50-2+ Ap; 85-8+ My '42

Lubrication keeps production rolling; Warner & Swasey company. N. Swenson. il Am Mach 85:1138-40 N 12 '41

Making machine tools more efficiently; Monarch machine tool co. F. J. Oliver. il Iron Age 149:58-62 Je 18 '42

Multiple shifts sharply increase output. il Am Mach 85:1209-11 N 26 '41

Panning pay dirt from your factory floor; reclamation department of Caterpillar tractor co. il Steel 110:66-7, 70+ Ja 19 '42

Salvaging scarce metals; Caterpillar tractor co. R. W. Hughes. il Factory Management 100:70-1+ Ja '42

Simplification and standardization increase availability of products; Worthington pump and machinery corporation. Marine Eng 47:253 O '42

Straight-line production speeds assemblies. il Am Mach 85:1198-1203 N 26 '41

Time out for meals only; Monarch machine tool company goes on 3 shift schedule. il Am Mach 86:641-3 Je 25 '42

Power

Emergency power supply for continuous machining; DeLaval turbine co. H. M. Martin. il diag Power Pl Eng 46:82-3 N '42

Storage battery takes over when power fails; DeLaval steam turbine co. il Power 86:389 Je '42

Safety measures

On guard; plant guard force, Joshua Hendy iron works. C. J. Voris. il Nat Safety N 45:17-18+ Je '42

MACHINERY

See also

Assembling methods
Balancing machines
Balancing of machinery
Ball bearings
Bearings
Belting
Bolts and nuts
Bottling machines
Broaching machines
Calculating machines
Clamps
Clutches
Coal mining machinery
Conveying machinery
Cotton machinery
Cotton picking machines
Couplings
Cranes, derricks, etc.
Crankshafts
Crushing machinery
Cylinders (engines, etc.)
Diesel engines
Dredges
Drilling and boring machinery
Dyeing machines
Electric machinery
Engineering
Excavating machinery
Fans, Mechanical
Feed mechanism
Fits (machinery)
Forging machinery
Friction
Gas and oil engines
Gearing
Hoisting machinery
Hosiery machines
Hydraulic machinery
Hydraulic presses
Inventions
Jigs
Knitting machines
Labeling machines
Locomotives
Looms
Lubrication and lubricants
Machine shop practice
Machine tools
Machinery in industry
Machinery industry
Mechanical drawing
Mechanical engineering
Mechanical handling
Mining machinery
Packaging machinery
Packing
Paper making machinery
Patents
Pneumatic machinery
Power transmission
Presses
Printing presses
Pulleys
Pumping machinery
Pumps
Rayon machinery
Refrigeration and refrigerating machinery
Road making machinery
Rock drills
Roller bearings
Rubber machinery
Screw machines
Shafts
Shoveling machines
Sintering machines
Spinning machinery
Springs (mechanism)
Steam engines
Steam turbines
Testing machines
Textile machinery
Tools
Tractors
Turbines
Valves
Woodworking machinery

Bases

Baseplates of welded steel. M. L. Murdock. il Iron Age 148:50-1 N 20 '41

Marked economy of welded construction in production of machine bases. R. A. Gast. diags Mach 49:165-6 S '42

Rubber in vibration. S. D. Gehman. bibliog il diags J Ap Phys 13:402-13 Je '42

Cleaning

Steam plant for cleaning machinery; portable or stationary generators. il Chem Age (Lond) 46:147 Mr 14 '42

Color

See Machinery—Painting

Design

Alternates for light metals. il diags Product Eng 13:186-91 Ap '42

Applying mobility method to linear vibrations. R. C. Binder. diags Machine Design 14:57-60+ Mr '42

Charts aid in determining plate thickness. J. Marin. Machine Design 14:66-9 Mr '42

Conversion for war; design's great opportunity! K. D. Moslander. il Machine Design 14:43-4 Ap '42

Cost factors governing design for plastics. J. Delmonte. il diags Machine Design 14:70-3 Mr '42

Critical speeds; how to calculate equivalent speeds and inertias. C. R. Freberg and E. N. Kemler. diags Product Eng 13:439-42 Ag '42

Design of sections for low loads. H. A. Illing. Machine Design 14:75-6 Ja '42

Designing for bending, twisting and axial loads. J. Marin. il diags Machine Design 14:79-83 S; 78-80+ O '42

Designing short beams. J. Marin. diags Machine Design 14:69-72+ F '42

Difference calculus simplifies computation of shaft deflections. A. H. Church. Product Eng 13:13-15 Ja '42; Discussion. R. E. Bruckner. 13:169-70 Mr '42

Eliminating surging in helical springs. A. M. Wahl. il diags Machine Design 14:47-51+ Ap '42

Handbook of mechanical design. G. F. Nordenholt, J. Kerr and J. Sasso. 277p $4 McGraw-Hill '42

Honing tools and related equipment. L. S. Martz. diags Mech Eng 63:865-9 D '41; Same cond. Steel 109:50-2 D 29 '41; Excerpts. Machine Design 13:66-7 N '41

Increasing design tempo through model analysis. J. N. Goodier. il Machine Design 14:62-5+ S '42

Investigations on shaft fillets. P. Grodzinski. diags Engineering 152:321-4 O 24 '41

Plastics in engineering. J. Delmonte. 2d ed 601p $7.50 Penton pub. co. '42

Powdered metals in machine design. il Mach 48:111-18 Ag; 49:148-52 S '42

Primary considerations in selecting fittings. J. W. Greve. il diags Machine Design 14:58-60+ My '42; Abstract. Metals & Alloys 15:1050+ Je '42

Safe speeds for flywheels! J. Marin. diags Machine Design 14:41-4+ Ja '42

Selecting size and number of bolts in tension; charts. J. P. Doolan. Machine Design 14:87-8 F '42

Simplifying design of rubber mountings. C. W. Kosten and C. Zwikker. bibliog diags Machine Design 14:66-71 Ja '42

Simplifying graphical solution of linkages. H. A. Bolz. Machine Design 14:68-70 My '42

Sleeve bearings; factors that govern their design and performance. B. Sachs. diags Product Eng 13:248-52, 322-5, 365-6, 384-7, 462-4 My-Ag '42

Stepped-diameter shafts; procedures for calculating deflections. A. F. Puchstein. Product Eng 12:652-6 D '41

Substitutes, replacements, alternatives! R. C. Osborn. il Machine Design 14:73-6 F '42

MACHINERY—Design—*Continued*

Temper theory with experience; stress and fatigue testing. J. O. Almen. Machine Design 13:72-6 D '41

Toggle design; calculations for effects of frame deformation. H. A. Illing. diags Product Eng 13:68-70 F '42

War substitutions can be permanent! R. E. Orton. il diags Machine Design 14:55-9 Je '42

Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. bibliog il diags Machine Design 14:63-7+ Ag; 70-4+ S; 69-73 O; 82-6 N; 91-5 D '42 (to be cont)

Welded strap ends; simplified design for brake and clutch bands. G. Johansson. diags Product Eng 13:262-5 My '42

Welding design saves steel. A. F. Davis. il Welding J 21:266-70 Ap '42

When springs are statically loaded. A. M. Wahl. il charts Machine Design 14:67-71 Jl '42

See also

Cams
Fits (machinery)
Gearing—Design
Machine tools—Design
Springs (mechanism)
Tolerance

Drawing

Engineering drawing and mechanism. H. J. Brodie. 241p $2.25 Harper '42

Notes and problems in blue print reading of machine drawings. D. E. Hobart. 105p pa $1 Harper '41

Erection

Erecting and installation work. E. Molloy, ed. 128p $2.50 Chemical pub. co. '42

Erecting unit in dust-proof quarters; installation of Diesel-generating unit at plant of Ipswich (Mass.) municipal lighting department. il Elec W 116:2070 D 27 '41

Unique floor speeds erection; American electric fusion corp. il diag Factory Management 99:92 D '41

Failures

Applying theory of elasticity in practical design. R. E. Orton. bibliog diags Machine Design 13:58-63+ D '41

Foundations

Crow foot anchor bolts stay put; use of molten sulfur. B. H. Whitehouse. diags Power Pl Eng 46:112-13 My '42

Eliminating drop hammer vibrations. G. Laidler. diag Iron Age 149:54-5 Ap 2 '42

Felt mountings for machines. Mech Eng 64: 307-8 Ap '42

Foundation studs threaded down. diag Elec W 118:1143 O 3 '42

Foundations. R. R. Minikin. diags Engineer 172:428-30 D 19 '41

Grouting checks foundation vibration; gas compressor station of the Cities service gas co. at Wichita. il Eng N 129:561-2 O 22 '42

How to install foundation bolts. A. H. Korn. diags Power 86:415-16 Je '42

Impact vibrations; isolating their effects in machinery foundations. L. M. Dekanski. diags Product Eng 13:458-61, 515-18 Ag-S '42

Idleness

See Idleness, Industrial

Maintenance and repair

Arc welders work out method for removing broken stud bolts. A. F. Davis. il Welding J 21:177 Mr '42

Broken stud removal simplified by welding. il Mass Transportation 38:79 Mr '42

Building up bearing surfaces that are worn; practices of three companies. il Factory Management 100:145-6 Ag '42

Diamalloy for rebuilding worn machinery parts. Roads & Bridges 80:46+ Ag '42

Getting along with obsolete machinery. J. B. Hess. diags Eng & Min J 143:67-8 S; 67-8 O; 67-8 N; 73 D '42

Hard facing to reduce wear; value of the electric arc process. Chem Age (Lond) 47:13 Jl 4 '42

How to get longer life from antifriction bearings. G. Palmgren. il Factory Management 100:109-12 Jl '42

Making production equipment last longer; Pratt & Whitney aircraft, East Hartford, Conn. il Factory Management 100:151-2+ Ag '42

Metallizing, a modern aid in maintenance. il diags Min Cong J 28:17-21 S '42

Metallizing pump rods and other machine parts. Oil & Gas J 41:44 O 29 '42

New lease of life for wearing parts by gas welding; quick summary of resurfacing processes. Power 86:398-9 Je '42

New practices aid reclaiming of used oilfield equipment; oil-country machine shops. N. Williams. il Oil & Gas J 41:29-30 S 3 '42

Salvage specifications; summarizing methods of reclaiming defective parts. il diags Product Eng 13:78-80 F '42

Watch your step when making welded repairs. E. MacDermod. Power 86:760c+ O '42

Welding saves loss of two months on slab mill. il Blast F & Steel Pl 30:459-60 Ap '42

Manufacture

Welded structures; causes of deformation and their correction. G. Johansson. il Product Eng 13:390-1 Jl '42

See also

Assembling methods
Cylinders (engines, etc.)—Manufacture
Machine shops
Machine works
Tolerance

Noise

Recording machinery noise characteristics. H. D. Brailsford. il diags Electronics 15:46-51+ N '42

Painting

Bright colors on machinery. A. Perry. il Mod Packaging 15:88+ F '42

Bright paint on machines increases production. il Marine Eng 47:266 O '42

Camouflage in reverse; painting machine tools improve vision and decrease hazard. il Safety Eng 84:9-10+ S '42

Castings are painted before machining; American type founders inc. il Steel 111:100+ Jl 13 '42

Color for efficiency. M. Denning and A. A. Brainerd. il Product Eng 13:19-22 Ja '42

Color makes machines safer. il Factory Management 100:119-120 N '42

Improved vision in machine tool operations by color contrast. A. A. Brainerd and M. Denning. il diags Illum Eng 36:1397-1409 D '41; Excerpts. Elec W 117:324+ Ja 24 '42; Discussion. Illum Eng 36:1409-13 D '41

Make-up for better seeing; study of colors for machinery. A. P. Peck. il Sci Am 165:318-21 D '41

New machine tool gray; standard color for machine tools. W. E. Whipp. Am Mach 86: 52 F 5 '42

Paint marks the spot; painting machine tools in bright contrasting colors to improve vision. A. Perry. il Nat Safety N 45:12-13+ My '42

Pre-assembly painting eliminates need for masking, saves 16 manhours in finishing induction heating machines. A. Pittaway. il Steel 111:66 Jl 27 '42

Patents

Noteworthy patents. Published in monthly numbers of Machine design

Prices

Direct control of machinery prices. J. Dean. Harvard Business R 20 no 3:277-89 [Ap] '42

Machinery price schedule, no. 136, extensively changed; operative on July 22. Iron Age 150:108-14 Jl 9 '42

New machinery price schedule to give aid on subcontracts. Iron Age 149:108-10 My 21 '42

MACHINERY—Prices—*Continued*

Parts repriced. Business Week p28+ Jl 18 '42

Safety devices

Effective safety device; interlocked guard for power-driven guillotines. il Elec R (Lond) 131:493 O 16 '42

Guard that proved its worth; leather embossing machine. il Nat Safety N 45:54 Ap '42

Guarding the machine. il Nat Safety N 45:90+ Mr '42

Man or machine. R. P. Blake. il Safety Eng 82:20-2 D '41

Safety telltale on radial-drill arm. T. E. Jarnigan. diag Am Mach 85:1322 D 24 '41

See also

Machinery—Painting

Winding machines—Safety devices

Standards

American mechanical standards made and in the making. J. Gaillard. il Ind Stand 12:321-39 D '41

Testing

New gage measures machine strain. Iron Age 149:49 Ja 29 '42

Vibration

Applying mobility method to linear vibrations. R. C. Binder. diags Machine Design 14:57-60+ Mr '42

Applying mobility method to shaft vibration. R. C. Binder. diags Machine Design 14:62-5+ F '42

Calculation of vibrations in multi-mass systems. C. R. Freberg. diags Product Eng 13:588-90 O '42

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. diags Engineering 153:478-80, 498-500, 519 Je 12-26 '42; Excerpts. Engineer 173:477-80 Je 5 '42

Dynamic unbalance, its cause, effects and correction. G. C. Lawrie. il diags Instruments 15:357-9+ S '42

Eliminating drop hammer vibrations. G. Laidler. diag Iron Age 149:54-5 Ap 2 '42

Eliminating surging in helical springs. A. M. Wahl. il diags Machine Design 14:47-51+ Ap '42

Felt meets wartime demands; mounting for vibration insulation. C. Carmichael. diags Machine Design 14:67-8 O '42

General observations on vibration. J. Calderwood. Engineering 152:344-5 O 31 '41

Grouting checks foundation vibration; gas compressor station of the Cities service gas co. at Wichita. il Eng N 129:561-2 O 22 '42

Impact vibrations; isolating their effects in machinery foundations. L. M. Dekanski. diags Product Eng 13:458-61, 515-18 Ag-S '42

Isolating machine vibration. il diags Power Pl Eng 46:56-8 Ja '42

Isolating vibration through use of rubber. W. C. Keys. diags Machine Design 14:77-81+ F '42; Same. Mech Eng 64:175-80 Mr '42; Abstract. India Rubber W 105:380 Ja '42; Discussion. E. T. P. Neubauer. Mech Eng 64:808 N '42

Synthetic material for isolating vibration and shock; Keldur. Mach 48:160 Je '42

Vibration control by means of flexible mountings. L. Wallerstein, jr. il diags Product Eng 13:62-7 F '42

See also

Printing presses—Vibration

Weight

Machinery weights; data for estimating weights of ship machinery. E. A. Stevens, jr. Marine Eng 47:134-7, 156-9 Ag-S '42 (to be cont)

MACHINERY, Automatic

Automatic lathes and screw machines. E. T. Westbury. 90p 2s P. Marshall & co, Maidenhead, Berkshire, Eng. '40

Automatic machinery lowers costs in newly patented batch house; weighing, conveying, mixing, discharging and delivery to furnace. diag Cer Ind 38:80+ F '42

Mass production for the aircraft-engine industry; Greenlee automatic transfer machines; Wright aeronautical corporation. H. E. Linsley. il diags Mech Eng 64:100-5 F '42

MACHINERY, Kinematics of

Engineering fundamentals. diags Diesel Power 20:657, 668-70 Ag '42

What is wrong with kinematics and mechanisms? A. E. R. de Jonge. bibliog Mech Eng 64:273-8 Ap '42; Discussion. 64:744-51 O '42

See also

Mechanical movements

MACHINERY, Replacement of

Depreciation problems; relationship to competitive industry. E. L. Grant. Am Soc C E Proc 67:1622-3 N '41

Equipment replacement at proper time saves money. Oil & Gas J 41:67 S 10 '42

Plant values and their effect on costs and inventory valuations; productive replacement value. N. H. Foley. N A C A Bul 24:57-64 S 15 '42

Replacement calculation using sinking fund depreciation. Oil & Gas J 40:233 Mr 26 '42

Replacing worn equipment saves operator money. Oil & Gas J 41:67 My 28 '42

MACHINERY, Used

Inventory of second-hand machines inaugurated by OPA. Iron Age 150:104B Ag 13 '42

Survey of used machinery held for sale is launched by OPA. Steel 111:53 Ag 17 '42

Take a good look at secondhand turbines; have it inspected by expert and get manufacturer's data. G. Gregg. il Power 86:579-80 Ag '42

MACHINERY in industry

80 points about technological changes; digest and commentary on report by J. W. Riegel. Personnel J 21:122-30 O '42

How to use machines as a tool for greater production. il Factory Management 100:88-103 Ag '42

Machine has man trouble. G. T. Reich. flow sheet Food Ind 13:48-9 D '41

Management, labor and technological change. J. W. Riegel. 187p $2.50 Univ. of Michigan press, Ann Arbor '42; Review, by W. R. Maclaurin. Mech Eng 64:805-6 N '42

168-hr. work week for machines. Iron Age 150:37 Jl 23 '42

Union-management cooperation in full-fashioned hosiery industry; wage concessions to unionized employers in return for commitments for purchase of new machinery. F. Joiner. Monthly Labor R 53:1180-5 N '41

See also

Coal mining machinery

Control equipment

Machinery, Replacement of

MACHINERY industry

Earnings in manufacture of miscellaneous industrial machinery, 1942. H. R. Hosea, O. C. Clark and G. E. Votava. Monthly Labor R 55:306-13 Ag '42

Machinery ceiling set; price regulation by OPA. Iron Age 149:147-50 My 7 '42

OPA abandons single controls on prices; adopts sweeping price fixing regulation. R. Colborn. Am Mach 86:466g My 14 '42

War's effects on heavy machinery makers. Barron's 22:12 Mr 9 '42

See also

Agricultural machinery industry

Automobile industry and trade

Construction equipment—Manufacture

Food machinery

Locomotive industry

Machine tool industry

Motor truck industry

Printing machinery industry

Textile machinery industry

Tractor industry and trade

MACHINERY industry—*Continued*

Advertising

Gets direct mail sales at 8% cost; machine vises. W. P. Woodall. il Ind Marketing 27:42+ Jl '42

High speed war production brings strong industrial copy theme. il Ptr Ink 198:21-2+ Ja 16 '42

Human hand visualizes functions of Denison "Hydroilics." C. E. Brown. il Ind Marketing 27:22-3 N '42

Directories

Manufacturers of aircraft and engine machinery; directory of the sources of supply. Aero Digest 40:196-212 Ja '42

29th buyers reference number. il diags Am Mach 86:81-356 Ja 22 '42

Finance

SEC issues industry reports on manufacturers of machine tools, metal working machinery, etc. Comm & Fin Chr 154:1342 D 4 '41

SEC issues reports 20 and 21 on more listed corporations. Comm & Fin Chr 156:376 Jl 30 '42

Securities

Position of leading machinery and electrical equipment stocks. Mag of Wall St 69:490-1 F 7 '42

Profit and dividend outlook for machinery and equipments; position of leading stocks. J. C. Harrington. il Mag of Wall St 70:444-9+ Ag 8 '42

Service

Willcox & Gibbs break plant bottlenecks; help customers qualify for war orders; sewing machine manufacturer helps garment factories. il Sales Management 51:42+ Jl 15 '42

Statistics

New orders and shipments of producers' machinery and equipment, monthly, 1940-1941; chart. Survey of Cur Business 21:2 D '41

Great Britain

Annual economic review of the British engineering industry. A. M. de Neuman. Engineer 173:22-5, 44-6, 66-8 Ja 9-23 '42

Engineering outlook. Engineering 153:64-5, 84, 102-4, 143-4, 163-4, 183-4, 203-4, 223, 244, 264, 284 Ja 23-F 6, 20-Ap 10 '42

Post-war disposal of redundant machinery and plant. D. A. Bremner. Engineer 173: 492-3 Je 12 '42

Uruguay

Uruguayan market; effect of new agreement. For Comm W 8:21-2 S 19 '42

MACHINISTS

Machinists at work. A. V. Keliher, ed. 56p $1 Harper '41

See also

Machine shop practice—Study and teaching

Machine shops—Employees

MACINNES, Duncan Arthur, 1885-

Award of the William H. Nichols medal. Science 94:434 N 7 '41

MACINTOSH, Charles, 1766-

John Maclean, Charles Macintosh, and an early chemical society in Glasgow. J. A. V. Butler. J Chem Educ 19:43-4 Ja '42

MACK, Pauline Beery

Two new members are elected to ASA board of directors. por Ind Stand 13:36-7 F '42

MACK trucks, incorporated

Another look at your company. il Mag of Wall St 70:234 Je 13 '42

Stocks with high quick assets and good earnings. F. R. Walters. Mag of Wall St 70: 89 My 2 '42

Thumbnail stock appraisal. Mag of Wall St 69:206 N 29 '41

MCKELLAR, Kenneth Douglas, 1869-

Federals are coming; background of feud between Senator McKellar and the TVA directors. H. Corey. Pub Util 29:729-36 Je 4 '42

MCKESSON & Robbins, inc.

Files motion in drug trust suit. Oil Paint & Drug Rep 141:4+ Ap 27 '42

Happy ending for McKesson. Business Week p93 Jl 25 '42

McKesson & Robbins reorganization. W. H. Baldwin. Harvard Business R 20 no 4:473-81 [Jl] '42

Reorganization completed. Comm & Fin Chr 156:344 Jl 27 '42

MCKIBBEN, Paul Stilwell, 1886-1941

Sketch. J. M. Brown. Science 95:242 Mr 6 '42

MACLEAN, John, 1771-

John Maclean, Charles Macintosh, and an early chemical society in Glasgow. J. A. V. Butler. J Chem Educ 19:43-4 Ja '42

MCLEOD gage

Use of a McLeod gauge in measuring small volumes; applications to determination of small quantities of helium. N. B. Keevil, R. F. Errington and L. T. Newman. diags R Sci Instr 12:609-11 D '41

MCNAUGHTON, Andrew George Latta, 1887-

I.E.E. presentations; distinctions for General McNaughton and Dr Kapitza. Electrician 128:414-15 My 1 '42

MCNEAR, George Plummer, Jr. 1891-

One-man railroad; fight of T.P. & W. owner-president against the brotherhoods. por Business Week p20+ Ja 31 '42

MCNEW, John Thomas Lamar, 1895-

Sketch. por Civil Eng 11:738 D '41

MCNUTT, Paul Vories, 1891-

McNutt takes over labor, and vice versa. por Business Week p7 Ap 25 '42

MACY, R. H., and company

Debentures offered. Comm & Fin Chr 155: 2095-6 Je 1 '42

Experiment fails; Macy drops branch in Syracuse. Business Week p52-3 Ja 10 '42

Macy's explores; buyer makes a circuit of middle western markets. Business Week p52 N 22 '41

Macy's Parkchester, New York city; views, plans and construction outline. Arch Forum 76:126-8 F '42

Pan-Americanism; over-the-counter; Latin American fair. Barron's 22:5 Ja 5 '42

MADAGASCAR

Madagascar. Economist 142:682 My 16 '42

Industries and resources

Madagascar. A. F. Waddel and E. M. Schwarztrauber. il For Comm W 7:6-9+ Je 6 '42

MADDEN, James L. 1892-

To head U.S. Chamber of commerce insurance committee. por East Underw 43:4 Jl 10 '42

MADISON, Wisconsin

Water supply

Madison's new watersphere. L. A. Smith. il Am Water Works Assn J 34:601-5 Ap '42

MADRID, New Mexico

Christmas comes to Madrid; colorful celebration by coal mining camp. C. Holbrook. il diag Comp Air M 46:6603-6 D '41

MAGDEBURG, Germany

Air force targets in Germany. il maps Engineer 172:437-8 D 19 '41

MAGNAFLUX testing. See Magnetic testing

MAGNAVOX company, limited

Changes name; financial statements. Comm & Fin Chr 156:1240 O 5 '42

MAGNESIA

Electric furnace study of the $MgO-SiO_2$ system. R. R. Ralston and G. T. Faust. bibliog il diag Am Cer Soc J 25:294-310 Jl 1 '42

Electron reflections in MgO crystals with the electron microscope. R. D. Heidenreich. il Phys R 62:291-2 S 1 '42

MAGNESIA—*Continued*

Long-time volume changes in portland cement bars; effects of fineness and added magnesia. A. H. White and H. S. Kemp. Concrete (mill sec) 50:249-51 O '42 (to be cont)

Magnesium from lime. N. C. Rockwood. il Rock Prod 45:50-1 S '42

Modern hearth refractory practice; Ramix and Ramix 82. H. N. Barrett, jr. il diags Blast F & Steel Pl 29:1218-20 D '41; Same. Steel 110:80, 82, 84 Mr 23 '42

New developments in magnesium compounds; abstract. M. Y. Seaton. Chem & Met Eng 49:173-5 F '42

Olivine; potential source of magnesia. G. W. Pawel. il map Min & Met 23:331-3 Je '42

Production and properties of commercial magnesias; abstract. M. Y. Seaton. Rock Prod 44:77 D '41

Some basic slag systems. R. Hay and J. White. bibliog Blast F & Steel Pl 30:446-8+ Ap '42

See also

Periclase

MAGNESITE

Chrome and magnesite; abstract. J. W. Craig. Chem & Ind 61:62 Ja 31 '42

Concentration of magnesitic dolomite from Kilmar, Quebec. il diag Can Min J 63:157-65 Mr '42

Conversion of magnesite to periclase. B. L. Bailey. Electrochem Soc Trans 81 (preprint 28):423-9 Ap '42

Magnesite to be manufactured on New Jersey coast. Blast F & Steel Pl 29:1252 D '41

Magnesium-bearing minerals in the Boulder Dam area for the production of magnesium metal. J. Schlocker. bibliog U S Bur Mines Information Circ 7216:1-16 '42

Preliminary report on magnesite deposits of Stevens county, Washington. W. A. G. Bennett. (Report of investigations 5) 25p Dept. of conservation and development, Division of geology, Olympia, Wash. '41

Production and properties of commercial magnesias; abstract. M. Y. Seaton. Rock Prod 44:77 D '41

Production of magnesite at Chewelah. L. X. Magney. Blast F & Steel Pl 30:704+ Je '42

Progress reports, Metallurgical division; study of methods for producing magnesium metal from magnesite. R. S. Dean. pls U S Bur Mines Rep of Invest 3600:30-2 '41

Synthetic magnesite plant under way at Cape May Point, N.J.; Chesny process. News Ed 19:1434 D 10 '41; Same. Chem & Met Eng 48:111 D '41; Same. Min & Met 23:17 Ja '42

MAGNESITE brick

See also

Chromite magnesite brick

MAGNESIUM

Aircraft metals; with table giving production of aluminium and magnesium, by country, 1929-1941. Economist 142:361-2 Mr 14 '42

Alternates for light metals. il diags Product Eng 13:186-91 Ap '42

Aluminum output reaches for new power. T. N. Sandifer. Pub Util 29:490-4 Ap 9 '42

America turns pro; huge program for production of airplane metals designed to overcome lead of Axis powers. H. F. Lee. Barron's 22:8 Mr 16 '42; Correction. 22:8 Ap 13 '42

Basic magnesium, inc. profit charges denied; magnesite refinery at Las Vegas, Nev. Oil Paint & Drug Rep 141:3+ Ap 13 '42

Basic magnesium, inc. starts production. Oil Paint & Drug Rep 142:5 S 7 '42

Coming revolution in metals. J. J. Hipple. il Mag of Wall St 69:245-7+ D 13 '41

Determination of calcium in the presence of magnesium by standard soap solution; a rapid titration method. J. W. Polsky and others. bibliog Ind & Eng Chem Anal ed 14:644-6 Ag 15 '42

Down to the sea for metal; extraction of magnesium from brine. Sci Am 166:282 Je '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Enlarging magnesium output a hundredfold. P. D. Wilson. il Min & Met 23:201-3 Ap '42; Abstract. Chem & Met Eng 49:189-91+ My '42

Expansion of aluminum and magnesium production. il Manuf Rec 111:20-1 Mr '42

Finishing magnesium die castings. H. W. Schmidt. Am Soc T M Proc 41:941-8 '41; Abstract. Chem & Met Eng 48:164-5 S '41

Growth prospects of magnesium; war expansion will reduce price, increase peacetime uses. M. Pescatello. il Barron's 22:13 Mr 30 '42

Light metals in America; enormous expansion of production. Chem Age (Lond) 47:302-3 O 3 '42

Light metals, 1941. H. A. Franke. Eng & Min J 143:46-7+ F '42

Magnesium-bearing minerals in the Boulder Dam area for the production of magnesium metal. J. Schlocker. bibliog U S Bur Mines Information Circ 7216:1-16 '42

Magnesium for victory; summary of processes and plants designed to produce 200,000 tons annually. il Eng & Min J 143:35-7 Ja '42

Magnesium foundry; photographed by H. B. Cornelius. Metal Prog 41:491-8 Ap '42

Magnesium from sea water; abstracts. R. H. Harrington. Nat Safety N 44:71 D '41; Power 86:148c F '42

Magnesium from the sea. D. H. Killeffer. flow sheet il News Ed 19:1189-93 N 10 '41; Excerpt. Rock Prod 45:44-5 Ja '42

Magnesium from the sea. S. D. Kirkpatrick. flow sheet(p130-3) il Chem & Met Eng 48:76-84 N '41; Excerpt. Chem Age (Lond) 46:64-6 Ja 31 '42

Magnesium from the sea; Dow plant. W. J. Murphy. flow chart il map Chem Ind 49:618-28 N '41

Magnesium production from the sea aided by ignitron. il Sci Am 166:235 My '42

Magnesium production to be 725,000,000 lbs. Oil Paint & Drug Rep 141:5+ Mr 2 '42

Magnesium push. Business Week p55-7 Ja 10 '42

More light metal; WPB asks another huge increase in production. Business Week p22+ Mr 7 '42

Non-ferrous metals at war. T. E. Lloyd. il Iron Age 149:117-20 Ja 1 '42

Nuclear photo-effect on sulphur, aluminum, and magnesium. O. Huber and others. Phys R 60:910 D 15 '41

Olivine as a source of magnesium; abstract. E. C. Houston. Chem & Met Eng 49:149-50 Ap '42

Ranges of secondary electrons in magnesium. R. Truell. diags Phys R 62:340-8 O 1 '42

Salvage of aluminum and magnesium castings. Product Eng 13:355-6 Je '42

Secondhand juice; using equipment that's mostly old, Velasco power plant to speed output of magnesium. Business Week p32+ F 21 '42

Some experiments on chlorophyll and photosynthesis using radioactive tracers. S. Ruben, A. W. Frenkel and M. D. Kamen. bibliog J Phys Chem 46:710-14 Je '42

South's war effort and private industry; magnesium from sea water. S. A. Lauver. Manuf Rec 111:31 F '42

Surface treatments for magnesium; abstract. H. K. DeLong and W. H. Gross. Iron Age 150:68-9 Jl 2 '42

Treatment of burns of the skin due to molten magnesium. J. A. Wilson and B. Egeberg. Ind Med 11:436-7 S '42

WPB plans added 24-hour loads on generators; new aluminum and magnesium production program. Elec W 117:823-4 Mr 7 '42

Analysis

Estimation of magnesium with 8-hydroxyquinoline; microtitration and photometric procedures. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:658-61 Ag 15 '42

See also Magnesium alloys—Analysis

MAGNESIUM—*Continued*

Cleaning

New cleaning method for aluminum and magnesium. Aviation 41:137+ Ag '42

Fire hazards

Control today's fires; Dowmetal hazards. T. A. Fleming. il Safety Eng 83:35-6 Mr '42
Extinguishing magnesium fires; abstract. Am Mach 86:813-14+ Jl 23 '42
Laboratory testing of magnesium incendiary bomb extinguishers. M. Fleischer and J. J. Fahey. Chem & Eng N 20:1110 S 10 '42
Magnesium alloys; hazards and precautions. Nat Safety N 45:56, 58 Je '42
Magnesium fire extinguisher. il Aero Digest 40:210 F '42
Magnesium fire prevention and control. R. I. Thrune. Nat Underw 46:3+ Ja 22 '42
Petroleum pitch is found effective in combating magnesium fires. H. R. Brown, I. Hartmann and H. P. Greenwald. Nat Pet N 34 pt 2:R307+ S 30 '42
Pitch black; coal tar pitch for extinction of magnesium fires and incendiary bombs. il Safety Eng 83:17-18 F '42
Pitch extinguishes magnesium fires. R. R. Sayers. Foundry 70:96 Mr '42

Patents

Magnesium patents opened to industry. Oil Paint & Drug Rep 141:5+ Ap 20 '42

Physiological effects

Chemical gas gangrene from metallic magnesium. C. P. McCord and others. bibliog il Ind Med 11:71-6 F '42; Excerpts. Mech Eng 64:309 Ap '42
Gas gangrene; caused by magnesium in cuts and wounds. Science 95:sup10 Ja 9 '42; Same. Safety Eng 84:72 O '42
Health hazards in handling magnesium; gas gangrene and other industrial health hazards. W. Schweisheimer. il Iron Age 150:56-7 Jl 16 '42
Magnesiogenous pneumagranuloma. R. Z. Schulz and C. W. Walter. bibliog il J Ind Hygiene 24:148-53 Je '42
Physiologic action of metallic magnesium. S. F. Meek and others. il J Ind Hygiene 24:142-7 Je '42

Protection

Anodic and surface conversion coatings on metals. J. D. Edwards. il Electrochem Soc Trans 81 (preprint 18):251-67 bibliog (42 titles, p265-7) Ap '42; Excerpt. Chem & Met Eng 49:202-4 S '42
Utility enamel finishes for light alloy castings. Iron Age 150:49-52 O 29 '42

Welding

Arc welding magnesium possible by new method developed by Northrop. Iron Age 149:125 Je 25 '42
Fusion welding of magnesium; Heliarc process. T. E. Piper. il Metal Prog 42:404+ S '42
Heliarc, a process for magnesium welding. Mach 49:188 O '42; Aeronautical Eng R 1:97+ O '42
Helium shielded arc welding; Heliarc process. H. V. Pavlecka. il diags Iron Age 150:74-6 S 17 '42; Same cond. Automotive & Aviation Ind 87:40-1+ S 15 '42; Same cond. Metals & Alloys 16:451-2+ S '42; Same cond. Aero Digest 41:218+ O '42; Same cond. Aviation 41:147, 323-4 N '42; Abstract. Am Mach 86:1043-4 S 17 '42
Magnesium use broadened by new welding process. Product Eng 13:604 O '42
Welding method makes all-magnesium planes possible; abstract. T. E. Piper. Chem & Eng N 20:930 Jl 25 '42

MAGNESIUM acetate

Magnesium acetate as an ashing agent in fluorine analysis. W. E. Crutchfield, jr. bibliog Ind & Eng Chem Anal ed 14:57-8 Ja 15 '42

MAGNESIUM alloys

Aluminum-magnesium alloys resist attack. L. J. Benson and R. B. Mears. bibliog Chem & Met Eng 49:88-91 Ja '42
Better materials handling triples casting output; sand-molded magnesium-alloy castings. R. Trautschold. il Steel 111:64 Jl 27 '42
Care of flux in light alloy welding. diags Iron Age 150:49-52 Jl 16 '42
Control today's fires; Dowmetal hazards. T. A. Fleming. il Safety Eng 83:35-6 Mr '42
Deep drawing and pressing of magnesium alloy sheet; abstract. R. G. Wilkinson and D. B. Winder. Metals & Alloys 14:774 N '41
Dry machining of magnesium alloys; British practice. H. M. Garner. diags Iron Age 150:52-4 Jl 23 '42; Excerpts. Metals & Alloys 16:490+ S '42
Economic design for magnesium alloy construction; abstract. M. Schonberg. Metals & Alloys 15:333+ F '42
Effect of antimony on magnesium. W. R. D. Jones and L. Powell. Engineering 152:338-9 O 24 '41
Ford magnesium alloy foundry. E. F. Cone. il Metals & Alloys 15:396-402 Mr '42
Ford makes magnesium. G. E. Stedman. flow sheet il Chem & Met Eng 49:134-7 S '42; Same cond. Metals & Alloys 16:926+ N '42
German recovery of light metal scrap in two piston manufacturing plants. il Iron Age 149:56-8 Je 4 '42
Light alloy castings in aircraft. Foundry 70:70-1+ Ag '42
Magnesium alloy processing. J. P. ApRoberts. bibliog diags Metal Finishing 40:84-7 F '42
Magnesium alloys, cast and fabricated; illustrations. Metals & Alloys 16:429-36 S '42
Magnesium alloys; hazards and precautions. Nat Safety N 45:56, 58 Je '42
Magnesium alloys; technique of pressure die-casting. diag Automobile Eng Extra no 31: 389-90 N 6 '41
Melting technique in the magnesium foundry; abstract. Metals & Alloys 15:474+ Mr '42
Molding sands for magnesium alloys; abstract. Metals & Alloys 15:136+ Ja '42
New magnesium alloy. Automobile Eng 32:178 My '42
Nickel plating magnesium alloys. W. S. Loose. il Electrochem Soc Trans 81 (preprint 6): 51-67 Ap '42; Excerpts. Iron Age 149:68 My 7 '42; Abstracts. Chem & Met Eng 49:186 My '42; Metals & Alloys 16:146+ Jl '42
Production and fabrication of some nonferrous metals and their alloys in wartime. M. A. Hunter and others. Min & Met 23:112-16 F '42
Radiography of magnesium; abstract. R. S. Busk. Iron Age 150:60-1 Jl 9 '42
Rolling of a magnesium alloy. W. R. D. Jones and L. Powell. Engineering 152:345-6, 405-6 O 31, N 21 '41; Abstract. Metal Prog 41:72+ Ja '42
Some calibration data and scatter measurements for the radiography of magnesium aircraft castings; abstract. L. W. Ball. Metals & Alloys 16:84+ Jl '42
Some corrosion characteristics of high purity magnesium alloys. R. E. McNulty and J. D. Hanawalt. diags Electrochem Soc Trans 81 (preprint 12):135-44 Ap '42
X-ray inspection and supplementary technique. H. M. Muncheryan. il Aviation 41:84, 184+ Ja '42

Analysis

Gravimetric determination of aluminum in magnesium alloys; benzoate-oxine method. V. A. Stenger, W. R. Kramer and A. W. Beshgetoor. Ind & Eng Chem Anal ed 14:797-8 O 15 '42
Rapid determination of aluminium in magnesium alloys by means of 8-hydroxyquinoline (oxine). C. H. Wood. Soc Chem Ind J 61:29-31 F '42
Routine quantitative spectrographic analysis of magnesium alloys. F. A. Fox and J. Nelson. il diags Soc Chem Ind J 60:278-86 N '41

Testing

Divider method in tension testing of magnesium-base alloys. H. W. Schmidt. Am Soc T M Proc 41:219-21 '41

MAGNESIUM alloys—Testing—*Continued*

Preliminary static test of a magnesium alloy wing. E. W. Conlon and J. C. Mathes. il diags J Aeronautical Sci 9:284-9 Je '42; Same cond. Automotive & Aviation Ind 86: 36-9 Je 1 '42

MAGNESIUM aluminate

See also
Spinel

MAGNESIUM carbonate

See also
Dolomite

MAGNESIUM compounds

New developments in magnesium compounds; abstract. M. Y. Seaton. Chem & Met Eng 49:173-5 F '42

MAGNESIUM dust

Dust collector for magnesium alloy dust. il Metal Finishing 40:207-8 Ap '42; Iron Age 149:58 Ap 9 '42; Nat Safety N 45:66 Je '42

General Electric motors for magnesium dust locations; polyphase induction motors. il Gen Elec R 45:540 S '42; Same. Chem Ind 51:81 Jl '42

MAGNESIUM hydroxide

Effect of method of preparation upon the activity of coprecipitated copper hydroxide-magnesium hydroxide catalysts. J. W. Holmes and E. H. Taylor. Am Chem Soc J 63:2911-15 N '41

Inhomogeneity in coprecipitated copper hydroxide-magnesium hydroxide catalysts and its effect upon their activity. E. H. Taylor. Am Chem Soc J 63:2906-11 N '41

Magnesia hydrated at Kelley Island's plant. R. J. Schumacher. il plan Rock Prod 45: 50-1+ Je '42

MAGNESIUM metallurgy

Copper saved to make magnesium; busbar and feeder system for the electrolytic plant located at Basic magnesium, inc. il Elec West 89:48-50 O '42

Dolomite to become important source of magnesium; reports, A.I.M.E. meeting in New York. N. C. Rockwood. Rock Prod 45:61 Mr '42

Electrical developments of 1941; chemical industry; aluminum and magnesium. G. Bartlett. il Gen Elec R 45:31-3 Ja '42

Electrometallurgy, 1941. A. A. Center. Eng & Min J 143:94 F '42

Enlarging magnesium output a hundredfold. P. D. Wilson. il Min & Met 23:201-3 Ap '42; Abstracts. Metal Prog 41:339-41 Mr '42; Mech Eng 64:394 My '42; Chem & Met Eng 49:189-91+ My '42

Ford makes magnesium. G. E. Stedman. flow sheet il Chem & Met Eng 49:134-7 S '42; Same cond. Metals & Alloys 16:926+ N '42

Hansgirg hiatus; inventor in hands of FBI. Business Week p67 Ap 25 '42

Hansgirg process. Business Week p35-6 N 22 '41

Magnesium by electrothermic reduction. H. A. Doerner. il Min Cong J 28:35-7+ Ja '42

Magnesium for victory; summary of processes and plants designed to produce 200,000 tons annually. il Eng & Min J 143:35-7 Ja '42

Magnesium from dolomite by ferrosilicon reduction. D. H. Killeffer. Chem & Eng N 20: 369 Mr 25 '42; Same. Iron Age 149:55 Ap 9 '42; Same, with additional data. Rock Prod 45:65+ My '42

Pidgeon ferro-silicon process for magnesium. F. A. Breyer. Chem & Met Eng 49:87 Ap '42

Process to expand magnesium supply; abstract. L. Velie. Franklin Inst J 233:390 Ap '42

Production of magnesium from dolomite. Engineering 154:59-60 Jl 17 '42

Progress reports, Metallurgical division; magnesium by electrothermic reduction. H. A. Doerner and others. pls U S Bur Mines Rep of Invest 3635:1-47 '42; Excerpts. diags Chem & Met Eng 49:85-6 Ag '42

Progress reports, Metallurgical division; study of methods for producing magnesium metal from magnesite. R. S. Dean. pls U S Bur Mines Rep of Invest 3600:30-2 '41

Pumps for magnesium reduction plant. Power Pl Eng 46:59 Mr '42

Thermal production of magnesium. M. F. Landge. Can Min J 63:296 My '42

Warns industry to end trusts or be drafted. T. Arnold. Comm & Fin Chr 155:1710 Ap 30 '42

MAGNESIUM nitrate

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

MAGNESIUM oxide. See Magnesia

MAGNESIUM silicates

Binary system $CaSiO_3$—diopside and the relations between $CaSiO_3$ and akermanite. J. F. Schairer and N. L. Bowen. Am J Sci 240:725-42 O '42

Constitution of steatite. H. Thurnauer and A. R. Rodriguez. bibliog il Am Cer Soc J 25:443-50 N 1 '42

Filtration of oils by the use of prepared magnesium silicate. H. E. Bierce. il Oil & Gas J 41:47-8 S 10 '42

Insulator manufacture; use of various materials. C. S. Garland. Elec R (Lond) 130: 431-2 Ap 3 '42

See also

Forsterite	Soapstone
Magnesol	Talc

MAGNESIUM sulfate

Drying Epsom salt. Eng & Min J 143:73 Ap '42

Strong plaster for paperless wallboard; new process of gypsum manufacture involves cooking raw gypsum in Epsom salts solution. W. A. Cunningham. flow sheet il Rock Prod 45:50-3 Ap '42

MAGNESOL

New lubricating-oil-decolorizing and clay-reactivating process. W. B. Chenault and A. E. Miller. flow diag il Am Pet Inst Proc 22(3):59-68 '41; Same cond. Nat Pet N 33: R374, R376-8, R380 N 26 '41; Discussion. Am Pet Inst Proc 22(3):68-9 '41

MAGNETIC field

Change in the electric resistance of a single crystal of magnetite by magnetic field at low temperatures. H. Masumoto and Y. Shirakawa. Phys R 60:835 D 1 '41

Device unscrambles metal parts which have different effects on a magnetic field. C. S. Williams. il diag Elec W 117:1694 My 16 '42

Effect of magnetic field distribution in magnetic inspection. F. L. Fuller. il diags J Aeronautical Sci 9:202-6 Ap '42

Electric and magnetic effects of cosmic rays. F. Evans. bibliog Phys R 61:680-3 Je 1 '42

Fluxgraph; machine for plotting the magnetic fields of coils. P. G. Weiller. il diag Electronics 15:52-3 My '42

Formulas for the magnetic-field strength near a cylindrical coil. H. B. Dwight. bibliog diags Elec Eng 61:Trans 327-33 Je '42

Hysteresis torque in elliptically polarized fields. F. J. Beck, jr. and J. G. Clarke. diags J Ap Phys 12:860-6 D '41

Internal diamagnetic fields. W. E. Lamb, jr. bibliog Phys R 60:817-19 D 1 '41

Loss-of-field protection for generators. G. C. Crossman, H. F. Lindemuth and R. L. Webb. il diag Elec Eng 61:Trans 261-6 My '42

Magnetic field measurement in beta-ray spectroscopy. J. M. Cork and W. G. Wadey. diag R Sci Instr 13:369 Ag '42

Magnetic ion. F. Ehrenhaft and L. Banet. bibliog Science 96:228-9 S 4 '42

More magnetic fallacies. diags Wireless Eng 19:239-42 Je '42

Photophoresis and its interpretation by electric and magnetic ions. F. Ehrenhaft. Franklin Inst J 233:235-56 bibliog(p254-6) Mr '42

Physics of a transmission line. W. M. Thornton. bibliog Inst E E J 88 pt 2:561-7 D '41

Powerful magnetic field discovered in sunspots that blacked-out radio communications. Science 95:sup 10 Mr 20 '42

MAGNETIC field—*Continued*

Propagation of electromagnetic waves in a space charge rotating in a magnetic field. J. P. Blewett and S. Ramo. diag J Ap Phys 12:856-9 D '41

Statistical analysis of the earth's internal magnetic field. W. M. Elsasser. Phys R 60:876-83 D 15 '41

Studies in superconductivity; evaporated lead films. W. F. Brucksch, jr. and W. T. Ziegler. bibliog Phys R 62:348-53 O 1 '42

See also

Cyclotron

Zeeman effect

MAGNETIC induction

Eddy currents in a rotating disk. W. R. Smythe. diags Elec Eng 61:Trans 681-4 S '42

See also

Magnetostriction

MAGNETIC instruments

Electromagnetic densitometer. A. R. Richards. diags Ind & Eng Chem Anal ed 14:595-6 Jl 15 '42

See also

Recording instruments, Magnetic

MAGNETIC materials

Alnico; properties and equipment for magnetization and test. B. M. Smith. il Gen Elec R 45:210-13 Ap '42

Cobalt alloy magnets; substitutes and their properties. J. Koster and H. W. Davis. Product Eng 13:399-402 Jl '42

Delayed jump of strip to magnet demonstrates atomic change. il Sci Am 166:226 My '42

Harmonic distortion in audio-frequency transformers; silicon steel as core material. N. Partridge. diags Wireless Eng 19:394-400 S '42

Hysteresis torque in elliptically polarized fields. F. J. Beck, jr. and J. G. Clarke. diags J Ap Phys 12:860-6 D '41

Magnetic delay in stainless steel; abstract. H. H. Uhlig. Gen Elec R 45:245-6 Ap '42

Magnetic materials for electrical indicating instruments. A. J. Corson. bibliog il diags Gen Elec R 45:573-5 O '42

Magnetostriction in electrical sheet steels. F. Brailsford and R. G. Martindale. bibliog Inst E E J 89 pt 1:225-31 My '42

Measurement of core loss and a.c. permeability with the 25-cm. Epstein frame. S. L. Burgwin. il diags Am Soc T M Proc 41:779-95 '41

New magnetic materials. W. E. Ruder. bibliog Inst Radio Eng Proc 30:437-40 O '42

Permanent magnets. J. H. Goss. il Metals & Alloys 15:576-82 Ap '42

Quenched austenitic 18-8 (nitrogen free) changes to ferrite at 70°F.; magnetic delay. H. H. Uhlig. Metal Prog 42:391 S '42

Scattering of polarized X-rays by ferromagnetic substances. E. Rodgers. Phys R 61:35-8 Ja 1 '42

See also

Iron

Magnetic properties

Magnets

Nickel

Steel

MAGNETIC measurements

Apparatus for determining magnetic constants of mineral powders. V. H. Gottschalk and C. W. Davis. diags In U S Bur Mines Bul 425:58-72 '41

Demagnetizing factors of rods. R. M. Bozorth and D. M. Chapin. charts J Ap Phys 13:320-6 My '42

Eddy currents in a rotating disk. W. R. Smythe. diags Elec Eng 61:Trans 681-4 S '42

Ferromagnetic gold-iron alloys. S. T. Pan, A. R. Kaufmann and F. Bitter. il J Chem Phys 10:318-21 Je '42

Formulas for the magnetic-field strength near a cylindrical coil. H. B. Dwight. bibliog diags Elec Eng 61:Trans 327-33 Je '42

Magnetic methods for determining carbon in steel. B. A. Rogers, K. Wentzel and J. P. Riott. bibliog il diags Am Soc for Metals Trans 29:969-84; Discussion. 984-6 D '41

Magnetization near boundaries. J. H. Wakelin, jr. bibliog diag J Ap Phys 13:227-35 Ap '42

New method for the rapid determination of carbon in samples of plain carbon open-hearth steel. B. A. Rogers, K. Wentzel and J. P. Riott. pl diag In U S Bur Mines Bul 425:345-53 '41

Simultaneous measurement of magnetic and dilatometric changes. O. Zmeskal and M. Cohen. il diag R Sci Instr 13:346-8 Ag '42

Tri-*o*-tolyltin and the instability of organometallic free radicals. H. Morris, W. Byerly and P. W. Selwood. bibliog Am Chem Soc J 64:1727-9 Jl '42

See also

Magnetic testing

MAGNETIC moment

Alpha-model of nuclear structure, and nuclear moments. D. R. Inglis. bibliog Phys R 60:837-51 D 15 '41

Anisotropy of ferromagnetic powder particles. E. T. Benedikt. diag J Ap Phys 13:105-9 F '42

Internal diamagnetic fields. W. E. Lamb, jr. bibliog Phys R 60:817-19 D 1 '41

Magnetic moments at high frequencies. L. Page. Phys R 60:675-84 N 1 '41

Meson theory and the magnetic moments of protons and neutrons. H. Fröhlich. bibliog Phys R 62:180 Ag 1 '42

Nuclear spin and magnetic moment of K^{40}. J. R. Zacharias. bibliog diag Phys R 61:270-6 Mr 1 '42

Pseudoscalar meson field with strong coupling. W. Pauli and S. M. Dancoff. bibliog Phys R 62:85-108 Ag 1 '42

Recent work in molecular beams; nuclear moments. W. H. Bessey and O. C. Simpson. Chem R 30:254-68 Ap '42

MAGNETIC permeability

Demagnetizing factors of rods. R. M. Bozorth and D. M. Chapin. charts J Ap Phys 13:320-6 My '42

Magnetic moments at high frequencies. L. Page. Phys R 60:675-84 N 1 '41

Measurement of the initial inner permeability of iron over a wide radiofrequency range. R. W. Woods. bibliog diag J Ap Phys 13:314-19 My '42

Vector potential and inductance of a circuit comprising linear conductors of different permeability. T. J. Higgins. diags J Ap Phys 13:390-8 Je '42

MAGNETIC properties

Absorption spectra of para- and diamagnetic nickel complexes. J. E. Mills and D. P. Mellor. Am Chem Soc J 64:181-2 Ja '42

Alnico; properties and equipment for magnetization and test. B. M. Smith. il Gen Elec R 45:210-13 Ap '42

Anisotropy of ferromagnetic powder particles. E. T. Benedikt. diag J Ap Phys 13:105-9 F '42

Fast sorting of mixed pieces by their magnetic characteristics. P. E. Cavanagh. il Metal Prog 42:394-5 S '42

Geological significance of magnetic properties of minerals. C. W. Davis. In U S Bur Mines Bul 425:362-6 '41

Magnetic methods for determining carbon in steel. B. A. Rogers, K. Wentzel and J. P. Riott. bibliog il diags Am Soc for Metals Trans 29:969-84; Discussion. 984-6 D '41

Magneto-optical properties of ferromagnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42

Measurement of core loss and a.c. permeability with the 25-cm. Epstein frame. S. L. Burgwin. il diags Am Soc T M Proc 41:779-95 '41

Physical properties of magnetite and its possible uses as an industrial mineral. R. S. Dean and C. W. Davis. In U S Bur Mines Bul 425:354-61 '41

Recent work in molecular beams. W. H. Bessey and O. C. Simpson. Chem R 30:239-79 bibliog(279 references, p273-9) Ap '42

Statistical mechanics of nearest neighbor systems; general theory and application to two-dimensional ferromagnets. E. W. Montroll. J Chem Phys 10:61-77 Ja '42

MAGNETIC properties—*Continued*

Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

Unique magnetic property in 18-8 demonstrated. Metals & Alloys 15:629 Ap '42

Work-hardening and ageing of steel; abstract. J. H. Andrew and H. Lee. Elec R (Lond) 130:593-4 My 8 '42

See also

Magnetic permeability

Magnetic susceptibility

Magnetostriction

MAGNETIC rotation. See Optical rotation

MAGNETIC separation of ores

Magnetic separation of ores. R. S. Dean and C. W. Davis. flow sheets pls diags U S Bur Mines Bul 425:1-417 bibliog(371 titles, p367-80) patents(p169-92); pa $1 Supt. of doc. '41

MAGNETIC separators

Concentration of blast furnace flue dusts. S. M. Shelton and F. D. Lamb. flow sheet il Iron Age 149:54-9 Je 11 '42

Failure of magnetic separator. C. G. Clark. diag Power 86:430-1 Je '42

Magnetic percolators; cleaning clay for pottery. il diags Elec R (Lond) 130:203-4 F 13 '42

Magnetic separation of non-ferrous scrap. R. L. Manegold. il diags Iron Age 150:56-8 N 5 '42

Magnetic tools and appliances in engineering production. E. Molloy. 116p $2.50 Chemical pub. co. '42

Recovery and preparation of steel scrap. F. E. Ullman. il Steel 110:75-6, 78 Je 29 '42

See also

Magnetic separation of ores

MAGNETIC storms

Correlation between atmospheric potential gradient anomalies and solar eruptions. F. L. Cooper. bibliog Am J Sci 240:584-93 Ag '42

Cosmic rays and the magnetic disturbance of September 18, 1941. V. F. Hess and E. B. Berry. Phys R 60:746 N 15 '41

Intensity of the light of the night sky; magnetic disturbances; behaviour of the F_2 layer; abstract. G. Leithäuser. Wireless Eng 19:366-7 Ag '42

MAGNETIC susceptibility

Change in magnetic susceptibility of nickel disalicylaldehyde on hydrogenation. M. A. Fobes and G. N. Tyson, jr. Am Chem Soc J 63:3530 D '41

Configuration of complex kojates formed with some transition elements as determined by magnetic susceptibility measurements. J. W. Wiley, G. N. Tyson, jr. and J. S. Steller. Am Chem Soc J 64:963-4 Ap '42

Configuration of organic coördination compounds of nickel, with especial reference to bis-formylcamphor-ethylenediamine-nickel. H. S. French, M. Z. Magee and E. Sheffield. bibliog Am Chem Soc J 64:1924-8 Ag '42

Heats of dissociation of some hexaarylethanes. R. Preckel and P. W. Selwood. bibliog diag Am Chem Soc J 63:3397-403 D '41

Magnetic susceptibilities of *cis* and *trans* decalin. W. Byerly and P. W. Selwood. Am Chem Soc J 64:717-18 Mr '42

Temperature variation of the magnetic susceptibilities of antimony-tin alloys. S. H. Browne and C. T. Lane. diag Phys R 60:899-905 D 15 '41

Variation of the magnetic properties of antimony with electron concentration. S. H. Browne and C. T. Lane. bibliog Phys R 60:895-9 D 15 '41

MAGNETIC testing

Convenient equipment for magnaflux testing. il Ry Mech Eng 115:535-6 D '41

Effect of magnetic field distribution in magnetic inspection. F. L. Fuller. il diags J Aeronautical Sci 9:202-6 Ap '42

Effect of normal elements and alloy elements on the rate of austenite transformation in cast iron at constant temperature. C. Nagler and W. P. Wood. il diags Am Soc for Metals Trans 30:491-512; Discussion. 512-15 Je '42

Magnaflux aircraft inspection manual. F. B. Doane and W. E. Thomas. 193p $1.75 Magnaflux corp, 5908 Northwest highway, Chicago '41

Magnafluxing procedures. F. B. Doane and M. Mages. il Iron Age 149:47-52 Mr 12; 56-8 Mr 19 '42

Magnetic crack detectors; examination of motor and aero-engine parts. il Elec R (Lond) 131:267-8 Ag 28 '42

Magnetic inspection of aircraft steels. R. L. Fitch. diags Aero Digest 41:178+ Jl '42

Magnetic inspection of arc welds; abstract. C. H. Hastings. Iron Age 150:48-9 O 22 '42

Magnetic powder method of crack detection. J. F. Kayser. diags Engineer 174:241 S 18 '42

Magnetic tools and appliances in engineering production. E. Molloy. 116p $2.50 Chemical pub. co. '42

New test shows flaws in heat-treated steel. Product Eng 13:604-5 O '42

Principles of Magnaflux inspection. F. B. Doane. 2d ed 288p bibliog(p275-83) $2.50 Magnaflux corp, 5908 Northwest highway, Chicago '42

Rate of formation of tin-iron alloy during hot dip tinning as measured by a magnetic method. A. U. Seybolt. diag Am Soc for Metals Trans 29:937-46; Discussion. il 946-52 D '41

Residual method of magnaflux testing. M. L. Mages. il Aviation 41:118-20+ Ag '42

Testing for under-surface flaws. Iron Age 150:67 Jl 2 '42; Same. Blast F & Steel Pl 30:902 Ag '42

Testing of welds. H. N. Pemberton. Engineer 173:315-16 Ap 10 '42

MAGNETIC units

M.K.S. system; simplifying electro-magnetic measurement. R. O. Kapp. Elec R (Lond) 129:737-9 D 26 '41

MAGNETISM

Engineering fundamentals. diags Diesel Power 20:927-8 N '42

Gyromagnetic effects in ferromagnetic substances. C. J. Gorter. Phys R 60:836 D 1 '41

Increase of residual magnetism caused by a current flowing through an iron bar. H. A. Perkins and H. D. Doolittle. diag Phys R 60:811-17 D 1 '41

Magnetism and molecular structure. P. W. Selwood. bibliog il diags J Chem Educ 19:181-8 Ap '42

Magnetism and the third law of thermodynamics; the heat capacity of manganous fluoride from 13 to 320°K. J. W. Stout and H. E. Adams. bibliog Am Chem Soc J 64:1535-8 Jl '42

See also

Electricity

Electromagnetism

Magnetic separation of ores

Magnetization

MAGNETISM, Solar

Solar magnetism; abstract. J. A. Fleming. Science 95:sup 10 Mr 6 '42

MAGNETISM, Terrestrial

Electric and magnetic effects of cosmic rays. F. Evans. bibliog Phys R 61:680-3 Je 1 '42

Results of a high altitude cosmic-ray survey near the magnetic equator. H. V. Neher and W. H. Pickering. Phys R 61:407-13 Ap 1 '42

Some fallacies about the magnetic compass. H. H. Howe. maps Aero Digest 41:84-6+ S '42

Statistical analysis of the earth's internal magnetic field. W. M. Elsasser. Phys R 60:876-83 D 15 '41

See also

Magnetic storms

MAGNETITE

Change in the electric resistance of a single crystal of magnetite by magnetic field at low temperatures. H. Masumoto and Y. Shirakawa. Phys R 60:835 D 1 '41

MAGNETITE—*Continued*

Coercive force of magnetite powders. V. H. Gottschalk. In U S Bur Mines Bul 425:88-95 '41

Eastern magnetite, 1941. R. E. Crockett. Min & Met 23:106 F '42

Future possibilities of Mesaba magnetite sinter. G. W. Hewitt. Blast F & Steel Pl 30:753-7+ Jl '42

Magnetization curves for magnetite powders. V. H. Gottschalk and F. S. Wartman. In U S Bur Mines Bul 425:73-87 '41

Magneto-optical properties of ferromagnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42

Physical properties of magnetite and its possible uses as an industrial mineral. R. S. Dean and C. W. Davis. In U S Bur Mines Bul 425:354-61 '41

Preparation and use of iron ores for high hot metal heats. R. W. Tindula. Blast F & Steel Pl 30:763-8 Jl '42

Swedish sponge iron plant used magnetite concentrates. F. F. Foss. Iron Age 150:136 Ag 13 '42

Titaniferous magnetite deposits of the Laramie range, Wyoming. R. A. Diemer. (Geol. survey bul. 31) 23p bibliog(p23) Univ. of Wyoming, Laramie '41

Vanadium pig iron from titaniferous magnetite. F. E. Lathe. Eng & Min J 143:77 Ap '42

MAGNETIZATION

Alnico; properties and equipment for magnetization and test. B. M. Smith. il Gen Elec R 45:210-13 Ap '42

Correction for saturation. T. C. McFarland. Elec Eng 61:Trans 233-5 My '42

Magnetization curves for magnetite powders. V. H. Gottschalk and F. S. Wartman. In U S Bur Mines Bul 425:73-87 '41

Magnetization near boundaries. J. H. Wakelin, jr. bibliog diag J Ap Phys 13:227-35 Ap '42

Saturated synchronous machines under transient conditions in the pole axis. R. Rüdenberg. bibliog diags Elec Eng 61:Trans 297-306 Je '42

Simultaneous measurement of magnetic and dilatometric changes. O. Zmeskal and M. Cohen. il diag R Sci Instr 13:346-8 Ag '42

Statistical mechanics of nearest neighbor systems; general theory and application to two-dimensional ferromagnets. E. W. Montroll. J Chem Phys 10:61-77 Ja '42

MAGNETO-OPTICAL rotation. See Optical rotation

MAGNETO-OPTICS

Magneto-optical properties of ferromagnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42

MAGNETOS

Affords vernier adjustment in coupling magnetos to multicyclinder engines; patent. diag Machine Design 14:130+ F '42

Magnetos; dealing with the maintenance and repair of the Scintilla, Rotax, and the British Thomson-Houston types of magnetos. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub co. '41

Two 4-cylinder magnetos fire 8-cylinder engine. J. T. McKinley. diags Power 86:487-8 Jl '42

Unavailable compressor parts fabricated by pipe-line employees; distributor heads and collector rings made for magnetos of foreign manufacture. M. M. Heller. il diag Pet Eng 13:134-6 Mr '42

MAGNETOSTRICTION

Causes and characteristics of transformer noise. J. Swaffield. diags Inst E E J 89 pt 1:212-24 My '42

Magnetostriction in electrical sheet steels. F. Brailsford and R. G. Martindale. bibliog Inst E E J 89 pt 1:225-31 My '42

Magnetostriction phenomena. W. D. Williams. bibliog Gen Elec R 45:161-3 Mr '42; Same abr. Electrician 128:570-2 Je 5 '42

MAGNETRON

Magnetrons with grids [for amplitude modulation] abstract. L. Müller. Wireless Eng 19:121-2 Mr '42

Theory of the magnetron; oscillations in a split-anode magnetron. L. Brillouin. Phys R 62:166-77 Ag 1 '42

Ultra high frequency technique; ultrahigh frequency generators. I. E. Mouromtseff, R. C. Retherford and J. H. Findley. diags Electronics 15:48-9 Ap '42

MAGNETS

Magnetic protractor for assembling machinery. G. J. Murdock. diag Am Mach 86:657 Je 25 '42

Magnetic tools and appliances in engineering production. E. Molloy. 116p $2.50 Chemical pub. co. '42

New moving-magnet instrument for direct current. H. T. Faus and J. R. Macintyre. il diags Elec Eng 61:Trans 586-8 Ag '42

Permanent magnet β-ray spectrograph. E. H. Plesset, G. P. Harnwell and F. G. P. Seidl. il diag R Sci Instr 13:351-61 Ag '42

Permanent magnets. J. H. Goss. il Metals & Alloys 15:576-82 Ap '42

Permanent magnets. G. W. O. Howe. Wireless Eng 19:287-9 Jl '42

Quality control in the manufacture of permanent magnets cuts rejects 90 per cent. J. H. Goss. il diags Steel 111:92-4+ O 26 '42

Road magnet picks up 5,715 lbs. of metal. R. M. Whitton. il Roads & Sts 85:43 Jl '42

Sorting high- and low-carbon steel parts. R. H. Grace. Metals & Alloys 15:833-4 My '42

See also

Electromagnets

Magnetization

MAGNETS, Lifting. See Lifting magnets

MAGNIFICATION. See Optical instruments; Optics

MAGNUS, Percy Cecil, 1893-

Recalled to head N.Y. Board of trade. por Oil Paint & Drug Rep 140:5+ D 29 '41

MAHOGANY

Mahogany trees grown in Florida; abstract. S. J. Lynch and H. S. Wolfe. Science 96:sup10 O 23 '42

Sources of U.S. mahogany imports, 1939 and 1940. For Comm W 7:22 Je 13 '42

MAIL

See also

Postal service

MAIL advertising. See Advertising, Mail

MAIL banking. See Banks and banking—Mail service

MAIL conventions. See Sales conventions—Mail conventions

MAIL handling

See also

Air mail service

MAIL order business

Cutting inventory; Sears and Ward reverse policy of heavy forward buying. Business Week p17 D 27 '41

Mail houses hit. Business Week p89-90 S 19 '42

Mail order entry; Firestone launches catalog business designed to keep retail outlets alive. il Business Week p68+ O 31 '42

Sears's war; world's greatest merchant sees sales falling and problems mounting, and makes the best of it. il Fortune 26:78-83, 119-20+ S '42

Successful mail selling. H. P. Preston. 228p bibliog(p222-4) $3 Ronald press '41

X marks the price; mail-order and chain-store organizations and three-weeks-old price-freezing order. Business Week p71-3 My 23 '42

See also

Advertising, Mail

Catalogs

Chain stores—Mail order stores

Mailing lists

Montgomery Ward and company

Sears, Roebuck and company

MAIL order business—*Continued*

Advertising

Catalog time. Business Week p50+ Ag 1 '42

How to increase profits from catalog sales; use of small type and light paper and listing more items. A. Constantine, jr. Ptr Ink 198:48-9 F 20 '42

Mail-order houses make bid for more urban business. il Ptr Ink 200:20, 22+ Jl 31 '42

Mail-order houses step up sales power of catalogs. il Ptr Ink 198:13 Ja 23 '42

New mail order catalogs. Adv & Sell 35:44 S '42

Prize-winning mail campaign: it switched a market to alternate products; Southern States Iron Roofing converts to asphalt. il Ptr Ink 201:76, 78+ N 6 '42

Shopping by mail; special edition of Merced sun-star for Japanese evacuees. Business Week p29 Ag 15 '42

Finance

Investment audit of Sears, Roebuck. H. J. Nelson. Barron's 21:8 D 8 '41

Sears, Roebuck in war and peace. R. P. Stewart. Barron's 22:7-8 Je 1 '42

MAIL orders

See also

Advertising, Mail

MAILING

Ten commandments of mailing. E. N. Mayer, jr. Inland Ptr 108:69 N '41

MAILING lists

Checking mailing lists. Management R 31:102-3 Mr '42

Cost and results of Cochrane's direct mail for sales promotion; campaigns for building prestige, prestige plus inquiries, and for inquiries alone. S. D. Distelhorst. il Ind Marketing 26:21-3+ D '41

How to sell bank service by direct mail. R. E. Doan. Bankers M 145:303-13 O '42

This direct mail is geared to industrial selling; Ferranti electric limited. G. A. Brace. il Ptr Ink 198:16-17+ Ja 9 '42

MAIN, Charles Reed, 1885-1942

Sketch. por Boston Soc C E J 29:364-5 O '42

MAINE

Maine being dotted with defense airports. il Comp Air M 46:6596-7 N '41

See also

Water supply—Maine

MAINE central railroad

Maturity problem ahead. A. Jansen. Barron's 22:19 Je 1 '42

MAINTENANCE of membership, Trade union. See Trade unions—Maintenance of membership

MAIZE. See Corn

MAKE-ready. See Printing, Practical—Presswork

MAKE-up. See Printing, Practical—Make-up

MAKE-UP, Theatrical

Stage makeup. R. Corson. 176p bibliog(p159) $2.50 Crofts '42

MALARIA

5-Amino- and 1-aminobenzo(f)quinolines and derivatives. E. R. Barnum and C. S. Hamilton. bibliog Am Chem Soc J 64:540-2 Mr '42

Antiplasmodial action and chemical constitution; compounds related to lepidylamine. T. S. Work. Chem Soc J p426-9 Jl '42

Attempts to find new antimalarials; derivatives of *m*-phenanthroline. W. O. Kermack and W. Webster. Chem Soc J p213-18 Mr '42

Cinchona drug doses must be adequate. Oil Paint & Drug Rep 142:7+ Ag 31 '42

Derivatives of 4-amino-6-methoxyquinaldine. W. F. Holcomb and C. S. Hamilton. bibliog Am Chem Soc J 64:1309-11 Je '42

Disease in wartime. Science 95:530 My 22 '42

Malaria; lessons on its cause and prevention, for use in schools. H. R. Carter. (Public health reports supp. 18) rev ed 17p U.S. Public health service, Washington; pa 10c Supt. of doc. '42

Malaria medicine monopolies assailed by Representative Gearhart. Oil Paint & Drug Rep 142:3+ Ag 17 '42

Malaria medicines probe to be sought in Congress. Oil Paint & Drug Rep 142:7+ Ag 24 '42

Mosquitoes, malaria and the war in the Pacific. E. P. Mumford. map Science 96:191-4 Ag 28 '42

New standards adopted for totaquine; abstract. E. F. Cook. Science 96:sup10 O 16 '42

Observations on experimental malaria control drainage ditch linings. J. L. Robertson, jr, and others. Pub Health Rep 57:451-643, pl 1-8 Mr 27 '42

Pigment of the malaria parasite. D. B. Morrison and W. A. D. Anderson. bibliog Pub Health Rep 57:90-4 Ja 16 '42

Reconnaissance of anopheline larval habitats and characteristic desmids of the Okefenokee swamp, Georgia. W. C. Frohne. bibliog Pub Health Rep 57:1209-17 Ag 14 '42

Relation of plants to malaria control, with special reference to impounded waters. W. T. Penfound. Pub Health Rep 57:261-8 F 20 '42

Role of parasite pigment in the malaria paroxysm. D. B. Morrison and W. A. D. Anderson. bibliog Pub Health Rep 57:161-74 Ja 30 '42

Symposium on human malaria, with special reference to North America and the Caribbean region. F. R. Moulton, ed. 398p bibliog(p371-98) $5 Am. assn. for the advancement of science, Washington, D.C. '41

Syntheses in the quinoline series; some derivatives of 4-methylquinoline and a study of their structures. O. H. Johnson and C. S. Hamilton. bibliog Am Chem Soc J 63:2864-7 N '41

MALAY archipelago

Wealth of the Indies. map Economist 142:32-3 Ja 10 '42

MALAYA, British

British rule in eastern Asia; a study of contemporary government and economic development in British Malaya and Hong Kong. L. A. Mills. 581p bibliog(p514-48) $5 Univ. of Minnesota press, Minneapolis '42

News by countries. For Comm W 5:8 N 29 '41

See also

Engineering—Malaya, British

MALAYSIA. See Malay archipelago

MALEANILIC acid

Reactions of anils; the reversibility of the reaction with acid anhydrides. H. R. Snyder and J. C. Robinson, jr. Am Chem Soc J 63:3279-80 D '41

MALEATES

Copolymerization of alkyl acrylates and alkyl maleates; some kinetic studies on copolymerization. C. S. Marvel and R. L. Frank. Am Chem Soc J 64:1675-8 Jl '42

MALEIC anhydride

Addition of maleic anhydride and ethyl maleate to substituted styrenes. B. J. F. Hudson and R. Robinson. Chem Soc J p715-22 N '41

Content of *l*-pimaric acid in pine oleoresin; improved methods for its determination. E. E. Fleck and S. Palkin. bibliog Ind & Eng Chem Anal ed 14:146-7 F 15 '42

Preparation and isolation of 4-methyl-1,3-pentadiene. G. B. Bachman and C. G. Goebel. bibliog Am Chem Soc J 64:787-90 Ap '42

MALLEABLE cast iron. See Cast iron

MALLORY, Frank Burr, 1862-1941

Sketch. F. Parker, jr. Science 94:430-1 N 7 '41

MALONIC acid

Analysis

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

MALONIC esters

Acid amides as hypnotics; barbituric acids. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2991-3 N '41

α-Alkoxyvinyl- and α-alkoxyethylbarbituric acids. S. M. McElvain and H. Burkett. Am Chem Soc J 64:1831-6 Ag '42

Alkyl carbonates in synthetic chemistry; alkylation of malonic esters by alkyl carbonates. V. H. Wallingford and D. M. Jones. bibliog Am Chem Soc J 64:578-80 Mr '42

Condensation reactions; alkylidene cyanoacetic and malonic esters. A. C. Cope and others. bibliog diag Am Chem Soc J 63:3452-6 D '41

MALT

Determination of starch by the A.O.A.C. malt-diastase method; effect of pretreatment of samples. R. T. Balch and J. K. Phillips. Ind & Eng Chem Anal ed 13:815-18 N 15 '41

MALTOSE

Preparation of maltose monohydrate by the deacetylation of maltose octaacetate with barium methylate. W. A. Mitchell. Am Chem Soc J 63:3534 D '41

Analysis

Determination of moisture in sugar products; maltose and dextrose. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:27-30 Ja 15 '42

MALVA blanca

Malva blanca; new hemisphere substitute for jute. For Comm W 9:26 N 7 '42

MAMMALOGISTS, American society of. See American society of mammalogists

MAMMALS, Fossil

Analysis of merycoidodon skulls. F. B. Phleger, jr. and W. S. Putnam. bibliog Am J Sci 240:547-66 Ag '42

Occurrence of the tertiary marine mammal Cornwallius in lower California. V. L. Vanderhoof. diags Am J Sci 240:298-301 Ap '42

MAMMOTH. See Mastodon

MAN

How man became a giant. M. Ilin and E. Segal. 270p $2 Lippincott '42

Man and the vertebrates. A. S. Romer. 3d ed 405p $4.75; educ ed $3.50 Univ. of Chicago press '41

Man's biological future. A. M. Woodbury. Science 95:121-2 Ja 30 '42

Speaking of man; a biologist looks at man. M. F. Guyer. 321p $3.50 Harper '42

What man can make of man. W. E. Hocking. Fortune 25:90-3+ F '42

See also

Anthropology

Influence of environment

Climate makes the man. C. A. Mills. 320p $3 Harper '42

Discipline of peace. K. E. Barlow. 214p 8s 6d Faber & Faber, London '42

Environment and education; a symposium held in connection with the fiftieth anniversary celebration of the University of Chicago. E. W. Burgess and others. 66p pa $1 Univ. of Chicago, Chicago '42

MAN, Prehistoric

Lost civilization discovered at Point Hope, Alaska. Sci Am 165:336-7 D '41

See also

Anthropology

Indians of North America—Antiquities

MANAGEMENT

Forgotten function. **Business Week p75 N 29 '41**

Management in family living. P. Nickell and J. M. Dorsey. 477p $3 Wiley '42

Role of management in the organization of resources for production. L. C. Sorrell. J Business 14:27-41 pt 2 O '41

See also

Administration, Public
Business management
Efficiency, Industrial
Employment management
Factory management
Farm management
Forest management
Foundry management
Industrial management
Machine shop management
Mine management
Office management
Organization in industry
Planning
Retail trade—Store management
Sales management

also subdivision Management under various headings, e.g.

Department stores
Power plants
Public utilities
Railroads
Sheet metal shops
Textile mills
Waterworks

MANAGERIAL revolution

Managerial revolution; what is happening in the world. J. Burnham. 285p $2.50 Day '41; Review (Shifting control of industry) by D. L. Palmer. Mech Eng 63:904-5 D '41

MANCHESTER, New Hampshire

Water supply

Cleaning, sterilizing, and incorporating the Amoskeag mills water system into the Manchester, N.H. city system. P. A. Shaw. N E Water Works Assn J 56:212-20 Je '42

MANCHURIA

Manchuria; storm center. C. K. Moser. il map For Comm W 9:4-9, 38-40 O 10 '42

MANDATORY governments

Operation of the mandate system in Africa, 1919-1927. R. W. Logan. 50p pa 75c Foundation publishers, box 1382, Washington, D.C. '42

MANDATORY hearings. See Administrative law—Mandatory hearings

MANDELIC acid

Preparation of substituted mandelic acids and their bacteriological effects. J. L. Riebsomer and others. Am Chem Soc J 64:2080-1 S '42

MANDELOHYDRAZONE

Isomeric mandelohydrazones of benzoin. E. M. Luis and A. McKenzie. Chem Soc J p647-52 O '41

MANDIOCA. See Cassava

MANDRELS. See Arbors and mandrels

MANGANESE

America self-sufficient in manganese. E. E. Thum. il Metal Prog 41:645-6 My '42

Apparent relations between manganese and segregation in steel ingots. J. H. Whiteley. diag Iron & Steel Inst J 144:63-77 no 2 '41; Summaries. Engineering 152:454 D 5 '41; Steel 109:56 D 22 '41; Discussion. Iron & Steel Inst J 144:78-87 no 2 '41; Engineering 152:454 D 5 '41; Steel 109:56+ D 22 '41

Bureau of mines proposes domestic manganese program to fill all needs. Steel 110:58 F 16 '42

Conservation of manganese by steel makers. Metal Prog 41:647-50+ My '42

Depolymerization of cellulose in viscose production; effect of manganese on depolymerization rate. F. E. Bartell and H. Cowling. bibliog Ind & Eng Chem 34:607-12 My '42

Domestic output of manganese will be increased. R. R. Sayers. Blast F & Steel Pl 29:[1136+] N '41

East Mountain manganese; ore treatment by the thermite process. S. M. Bancroft. diags Can Min J 63:361-3 Je '42

Effect of manganese on the desulphurizing power of calcium silicates. F. W. Scott and T. L. Joseph. bibliog Blast F & Steel Pl 30:425-30, 532-5+ Ap-My '42

Emergency conservation of manganese. il Metal Prog 40:888-93 D '41

Ferro-alloy metals, 1941. N. B. Melcher. Eng & Min J 143:48-9 F '42

MANGANESE—*Continued*

Fluorescence of manganese in glasses and crystals. S. H. Linwood and W. A. Weyl. bibliog Opt Soc Am J 32:443-53 Ag '42

Heat of formation and high-temperature heat content of manganous oxide and manganous sulfate; high-temperature heat content of manganese. J. C. Southard and C. H. Shomate. bibliog Am Chem Soc J 64:1770-4 Ag '42

Latin-American manganese. For Comm W 8:34-5 Ag 8 '42

Manganese plants for the South. Manuf Rec 111:48 Ap '42

Problem of Allied supplies of manganese. Economist 142:370 Mr 14 '42

Race for metals. il map Fortune 25:84-7+ Mr '42

Ten to twenty per cent reduction in manganese consumption possible. Steel 110: 43-4+ Ja 12 '42

United States to develop country's manganese resources. Blast F & Steel Pl 30:sup62 Ap '42

See also
Ferromanganese
Water supply—Manganese content

Analysis

Colorimetry in metallurgical analysis. R. W. Silverthorn and J. A. Curtis. il Metals & Alloys 15:245-8 F '42

Determination of cobalt and manganese by photometric methods. L. Waldbauer and N. M. Ward. bibliog Ind & Eng Chem Anal ed 14:727-8 S 15 '42

Direct spectrographic determination of copper and manganese in dyestuffs. G. L. Buc, G. L. Royer and A. R. Norton. Opt Soc Am J 32:454-6 Ag '42

Ozone as an analytical reagent; determination of vanadium, cerium, and manganese. H. H. Willard and L. L. Merritt, jr. bibliog diag Ind & Eng Chem Anal ed 14: 486-9 Je 15 '42

Silicon, manganese, chromium, iron, and copper in a nickel-base alloy; an aliquot method for routine analysis of an electrical heat-resisting alloy. L. Silverman. Ind & Eng Chem Anal ed 14:554-5 Jl 15 '42

Stability of the permanganate-periodate color system. J. P. Mehlig. Ind & Eng Chem Anal ed 13:819 N 15 '41

Prices

See Manganese ores—Prices

MANGANESE alloys

Alloys of manganese and copper; micro-structure. R. S. Dean, C. T. Anderson and J. H. Jacobs. bibliog il Am Soc for Metals Trans 29:881-98 D '41

Alloys of manganese-nickel and copper; the coefficient of thermal expansion. R. S. Dean, C. T. Anderson and E. V. Potter. il Am Soc for Metals Trans 29:907-12 D '41

Alloys of manganese-nickel and copper; the electrical resistance and temperature coefficient of electrical resistance. R. S. Dean and C. T. Anderson. Am Soc for Metals Trans 29:899-906 D '41

Electrolytic manganese. J. M. Parks. Min & Met 23:114 F '42

See also
Ferromanganese
Manganese steel

MANGANESE bronze

Analysis

Determination of aluminum in manganese and aluminum bronzes using the mercury cathode cell. A. C. Holler and J. P. Yeager. bibliog il Ind & Eng Chem Anal ed 14:719-20 S 15 '42

MANGANESE carbide

High-temperature heat content of Mn_3O_4, $MnSiO_3$ and Mn_3C. J. C. Southard and G. E. Moore. bibliog Am Chem Soc J 64:1769-70 Ag '42

MANGANESE carbonate

Manganese carbonate in the Batesville district, Arkansas. H. D. Miser. diags fold maps U S Geol S Bul 921-A:1-97, pl 1-10; pa 60c Supt. of doc. '41

MANGANESE chromium molybdenum steel

Study of dimensional and other changes in various die steels due to heat treatment. G. M. Butler, jr. il Am Soc for Metals Trans 30:191-221; Discussion. 221-4 Mr '42

MANGANESE chromium steel

High manganese austenitic steels. R. Franks, W. O. Binder and C. M. Brown. bibliog Iron Age 150:51-7 O 1 '42

MANGANESE compounds

Action of sodium silicate on manganous salts in solution. E. A. Dancaster. Chem Soc J p581 S '42

High-temperature heat content of Mn_3O_4, $MnSiO_3$ and Mn_3C. J. C. Southard and G. E. Moore. bibliog Am Chem Soc J 64:1769-70 Ag '42

MANGANESE fluorides

Magnetism and the third law of thermodynamics; the heat capacity of manganous fluoride from 13 to 320°K. J. W. Stout and H. E. Adams. bibliog Am Chem Soc J 64:1535-8 Jl '42

MANGANESE hydrates

Temperature-composition relations of the binary system manganous nitrate-water. W. W. Ewing and H. E. Rasmussen. Am Chem Soc J 64:1443-5 Je '42

MANGANESE hydroxide

Autoxidation of manganous hydroxide. A. R. Nichols, jr. and J. H. Walton. bibliog Am Chem Soc J 64:1866-70 Ag '42

MANGANESE in water. See Water supply—Manganese content

MANGANESE industry

Domestic manganese situation. F. Laist. Min Cong J 28:48-50 F '42

Manganese picture in 1941; growth in importance of Cuba as source of supply. M. B. Gentry. Comm & Fin Chr 155:454-5 Ja 29 '42

Manganese program offered by Bureau of mines. Oil Paint & Drug Rep 141:4+ F 16 '42

MANGANESE metallurgy

Cartersville manganese ores studied in T.V.A. laboratory; magnetic roasting tests. diags Eng & Min J 143:54 Ap '42

Concentrating manganese ores from Drum Mountain district. S. R. Zimmerley, J. D. Vincent and C. H. Schack. U S Bur Mines Rep of Invest 3606:1-12 '42; Same cond. Eng & Min J 143:149-50, 152-4 Ap '42

Controlling flotation reagents automatically; Cuban-American manganese plant. F. Trotter. il plan Eng & Min J 142:45-6 N '41

Domestic manganese from Butte helps in emergency; Anaconda's plant producing concentrates of ferro grade by flotation and nodulizing. J. B. Huttl. flow sheets Eng & Min J 143:56-8 Ja '42

Domestic manganese program to produce 600,000 tons annually. Steel 110:56 Mr 9 '42

East Mountain manganese; ore treatment by the thermite process. S. M. Bancroft. diags Can Min J 63:361-3 Je '42

Electric furnace for smelting manganese ores. U.S. Bureau of mines, Salt Lake City; utilization data sheet. il Elec West 89:45 Jl '42

Electrolytic manganese. J. M. Parks. Min & Met 23:114 F '42

Electrolytic manganese of high purity. F. T. Sisco. Min & Met 23:34 Ja '42

Magnetic roasting tests on Cartersville manganese ores. L. L. McMurray, S. D. Broadhurst and M. T. Pawel. 43p bibliog(p42-3) Georgia. Dept. of natural resources. Division of mines, mining and geology, Atlanta '41

Manganese for emergency use on the Cuyuna range. F. F. Grout. Eng & Min J 143:43-4 Jl '42

MANGANESE metallurgy—*Continued*

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores. C. E. Wood and others. flow sheet pl U S Bur Mines Rep of Invest 3609:1-30; 3626:1-30; 3649:1-38; 3651:1-28 '42

Manganese investigations, Metallurgical division; ore-dressing studies of manganese ores. S. R. Zimmerley and others. U S Bur Mines Rep of Invest 3606:1-12; 3608:1-32; 3613:1-21; 3614:1-18; 3620:1-9; 3623:1-13; 3624:1-13; 3632:1-18; 3633:1-14; 3637:1-10; 3647:1-25; 3652:1-17 '42

Manganese investigations, Metallurgical division; pyrometallurgical studies of manganese ores; sintering or nodulizing of ferrograde manganese mill products and fine ores for smelting purposes. V. Miller and others. pl U S Bur Mines Rep of Invest 3625:1-14 '42

Manganese investigations, metallurgical; pyrometallurgical studies of manganese ores. R. G. Knickerbocker and V. Miller. pl U S Bur Mines Rep of Invest 3659:1-23 '42

Progress reports, Metallurgical division; annual report of the Metallurgical division, fiscal year 1941. R. S. Dean. bibliog flow sheets pls U S Bur Mines Rep of Invest 3600:1-70 '41

MANGANESE mines and mining

Arkansas

Manganese carbonate in the Batesville district. H. D. Miser. diags fold maps U S Geol S Bul 921-A:1-97, pl 1-10; pa 60c Supt. of doc. '41

Brazil

Brazil; exceptional reserves of iron, manganese, and nickel. E. A. Teixeira. il maps Eng & Min J 143:89-93 Ag '42

California

Manganese deposits in California. Blast F & Steel Pl 29:[1123] N '41

Nevada

Manganese deposits in the Nevada district, White Pine county. R. J. Roberts. maps U S Geol S Bul 931-M:295-318, pl 49-51; pa 25c Supt. of doc. '42

Nova Scotia

East Mountain manganese; ore treatment by the thermite process. S. M. Bancroft. diags Can Min J 63:361-3 Je '42

United States

America self-sufficient in manganese. E. E. Thum. il Metal Prog 41:645-6 My '42

Washington (state)

Unusual occurrence of manganese ore; Crescent mine of the Sunshine mining company, Washington, yields hausmannite and bementite. R. King. il Eng & Min J 143:52-4 S '42

MANGANESE molybdenum steel

New data for evaluating manganese-molybdenum steels. R. M. Parke, J. R. Blanchard and A. J. Herzig. il diag Metal Prog 40: 906-10 D '41

MANGANESE nitrate

Temperature-composition relations of the binary system manganous nitrate-water. W. W. Ewing and H. E. Rasmussen. Am Chem Soc J 64:1443-5 Je '42

Vapor pressure-temperature relations and heats of solution and dilution of the binary system manganous nitrate-water. W. W. Ewing, C. F. Glick and H. E. Rasmussen. Am Chem Soc J 64:1445-9 Je '42

MANGANESE ores

Autoradiography of ores. C. Goodman and D. C. Picton. il Phys R 60:688 N 1 '41

Cartersville manganese ores studied in T.V.A. laboratory; magnetic roasting tests. diags Eng & Min J 143:54 Ap '42

Concentrating manganese ores from Drum Mountain district. S. R. Zimmerley, J. D. Vincent and C. H. Schack. U S Bur Mines Rep of Invest 3606:1-12 '42; Same cond. Eng & Min J 143:149-50, 152-4 Ap '42

Domestic manganese situation. F. Laist. Min Cong J 28:48-50 F '42; Abstract. Chem & Met Eng 49:144-5 Ja '42

Manganese-bearing veins in southwestern Virginia. A. I. Jonas. bibliog map Econ Geol 37:408-23 Ag '42

Manganese carbonate in the Batesville district, Arkansas. H. D. Miser. diags fold maps U S Geol S Bul 921-A:1-97, pl 1-10; pa 60c Supt. of doc. '41

Manganese deposits in the Nevada district, White Pine county, Nevada. R. J. Roberts. maps U S Geol S Bul 931-M:295-318, pl 49-51; pa 25c Supt. of doc. '42

Manganese deposits of Cuba. C. F. Park, jr. Eng & Min J 143:48 O '42

Manganese for emergency use on the Cuyuna range. F. F. Grout. Eng & Min J 143:43-4 Jl '42

Manganese in Oregon. F. W. Libbey and others. (Bul. 17) 78p bibliog(p73-4) State dept. of geology and mineral industries, Portland, Ore. '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores. C. E. Wood and others. flow sheet pl U S Bur Mines Rep of Invest 3609:1-30; 3626:1-30; 3649:1-38; 3651:1-28 '42

Manganese investigations, Metallurgical division; ore-dressing studies of manganese ores. S. R. Zimmerley and others. U S Bur Mines Rep of Invest 3606:1-12; 3608:1-32; 3613:1-21; 3614:1-18; 3620:1-9; 3623:1-13; 3624:1-13; 3632:1-18; 3633:1-14; 3637:1-10; 3647:1-25; 3652:1-17 '42

Manganese investigations, Metallurgical division; pyrometallurgical studies of manganese ores; sintering or nodulizing of ferrograde manganese mill products and fine ores for smelting purposes. V. Miller and others. pl U S Bur Mines Rep of Invest 3625:1-14 '42

Manganese investigations, metallurgical; pyrometallurgical studies of manganese ores. R. G. Knickerbocker and V. Miller. pl U S Bur Mines Rep of Invest 3659:1-23 '42

Manganese resources of east Tennessee. S. O. Reichert. (Bul. 50) 204p bibliog(p194-6) Dept. of conservation, Division of geology, Nashville, Tenn. '42

Metals Reserve formulates standard contracts for manganese and chrome ores. Min Cong J 27:60-1 D '41

Metals Reserve offers guidance to domestic manganese ore producers. Min Cong J 28: 63-4 Je '42

Progress reports, Metallurgical division; annual report of the Metallurgical division, fiscal year 1941. R. S. Dean. bibliog flow sheets pls U S Bur Mines Rep of Invest 3600:1-70 '41

Progress reports, Metallurgical division; ore-testing studies of the ore-dressing section, fiscal year, 1941. A. L. Engel and S. M. Shelton. flow sheets U S Bur Mines Rep of Invest 3628:3-17 '42

Source beds of manganese ore in the Appalachian valley. G. W. Stose. Econ Geol 37:163-72 My '42

Unusual occurrence of manganese ore; Crescent mine of the Sunshine mining company, Washington, yields hausmannite and bementite. R. King. il Eng & Min J 143:52-4 S '42

World's manganese ore deposits and the Atlantic charter. L. L. Fermor. Engineer 174: 111-12 Ag 7 '42

Prices

Domestic manganese ores under price ceiling Nov. 9. Iron Age 150:93-4 O 29 '42

Manganese ore sales ceiled by OPA. Oil Paint & Drug Rep 142:5+ N 2 '42

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:359 Ja 5 '42

Reform asked in manganese ore pricing. A. G. Betts. Min & Met 23:341-2 Je '42

MANGANESE oxides
Heat of formation and high-temperature heat content of manganous oxide and manganous sulfate; high-temperature heat content of manganese. J. C. Southard and C. H. Shomate. bibliog Am Chem Soc J 64:1770-4 Ag '42
High-temperature heat content of Mn_3O_4, $MnSiO_3$ and Mn_3C. J. C. Southard and G. E. Moore. bibliog Am Chem Soc J 64:1769-70 Ag '42

MANGANESE poisoning
Manganese standard protects health of war workers. Ind Stand 13:221-2 S '42

MANGANESE silicates
High-temperature heat content of Mn_3O_4, $MnSiO_3$ and Mn_3C. J. C. Southard and G. E. Moore. bibliog Am Chem Soc J 64:1769-70 Ag '42
Manganese-bearing veins of southwestern Virginia. A. I. Jonas. bibliog map Econ Geol 37:408-23 Ag '42

MANGANESE steel
Conservation of manganese by steel makers. Metal Prog 41:647-50+ My '42
Hadfield manganese steel as hard bearing metal. V. R. Farlow and L. H. McCreery. il Metals & Alloys 14:692-7 N '41
High manganese austenitic steels. R. Franks, W. O. Binder and C. M. Brown. bibliog Iron Age 150:51-7 O 1 '42
Manganese steel renewal-bushings. J. I. Capps. diag Metals & Alloys 16:470 S '42
Pearlitic manganese steels; properties and other data. Product Eng 13:343-4 Je '42
Study of dimensional and other changes in various die steels due to heat treatment. G. M. Butler, jr. il Am Soc for Metals Trans 30:191-221; Discussion. 221-4 Mr '42
Taylor-Wharton started making iron before United States was born; pioneered high-manganese steel in this country. il Steel 111:55+ O 19 '42
Ten to twenty per cent reduction in manganese consumption possible. Steel 110:43-4+ Ja 12 '42
Weldability of carbon-manganese steels; report of subcommittee II, Industrial research division, welding research committee of the Engineering foundation. Welding J 21:sup448-50 O '42
Weldability of carbon-manganese steels: weld-bead hardness and weld-bead bend tests. O. E. Harder and C. B. Voldrich. il diags Welding J 21:sup450-66 O '42
See also
Manganese chromium steel
Manganese molybdenum steel

Testing

Jominy end-quench hardenability tests on carbon-manganese steels. G. A. Timmons. il Welding J 21:sup467-77 O '42
Report of tee-bend tests on carbon-manganese steels. L. C. Bibber and J. Heuschkel. il diags Welding J 21:sup485-90 O '42
Weldability tests of carbon-manganese steels. C. E. Jackson, M. A. Pugacz and G. G. Luther. il Welding J 21:sup477-84 O '42

MANGANESE sulfates
Heat of formation and high-temperature heat content of manganous oxide and manganous sulfate; high-temperature heat content of manganese. J. C. Southard and C. H. Shomate. bibliog Am Chem Soc J 64:1770-4 Ag '42

MANHOLE covers
Precast concrete shower bases; Badger concrete co., Oshkosh, Wis. also making concrete manhole fittings and milk cooling tanks. il Rock Prod 45:82-3+ O '42; Discussion. C. G. Walker. 45:107 D '42
Precast concrete manhole covers to help keep your products plant busy. diags Concrete 50:10-11 My '42

Standards

American Standard manhole frames and covers for subsurface structures. diags Am Water Works Assn J 34:1075-1101 Jl '42

MANHOLES
Duration manhole design uses wood cover and concrete ring. J. M. Smith. il diag Eng N 129:501 O 8 '42
Investigations during 1938, 1939, and 1940 of combustibles in manholes in Boston. G. W. Jones and others. U S Bur Mines Rep of Invest 3604:1-33 '42

MANIFOLDS
Fabricating piping systems by electric-arc welding. A. M. Hill. il diags Oil & Gas J 41:41-3+ Jl 16 '42
How to design a materials-saving war refinery manifold. il diags Nat Pet N 34 pt 2:R260-1 Ag 26 '42
Modified coupling ties lines of different sizes together. il Oil & Gas J 41:59 Ag 6 '42
See also
Airplane engines—Manifolds
Gas and oil engines—Manifolds

MANILA copals. See Copals

MANILA elemi
Triterpene group; the constitution of breïn and maniladiol. I. M. Morice and J. C. E. Simpson. Chem Soc J p198-203 Mr '42

MANILA hemp
Identification of various types of tendering in manila and sisal. V. Castle and W. A. S. White. bibliog pls Textile Inst J 33:T17-32 Mr '42
U.S. rope trick; United Fruit will expand plantings in Panama. Business Week p81-2 Ap 18 '42

MANILA rope. See Rope

MANILADIOL
Triterpene group; the constitution of breïn and maniladiol. I. M. Morice and J. C. E. Simpson. Chem Soc J p198-203 Mr '42

MANITOBA
See also Mines and mineral resources—Manitoba

MANLY, Charles Matthews, 1876-1927
Aide in aerodromics; Charles Matthews Manly, assistant to Samuel Langley. S. P. Johnston. pors Tech R 44:218-20+ Mr '42

MANNANS
Constitution of yeast mannan. W. N. Haworth, R. L. Heath and S. Peat. Chem Soc J p833-42 D '41

MANNICH reaction
Preparation of β-keto amines by the Mannich reaction. F. F. Blicke and J. H. Burckhalter. Am Chem Soc J 64:451-4 F '42

MANNING tables
Manning tables, job and labor inventory. Business Week p18-19 N 7 '42
Manning tables to help you plan orderly withdrawals and replacements in working force. map Factory Management 100:74-82 N '42; Abstract. Chem & Met Eng 49:91-2 D '42

MANNOGALAHEPTOSE
Crystalline modifications of D-manno-D-galaheptose, and the preparation of some of its derivatives. E. M. Montgomery and C. S. Hudson. bibliog Am Chem Soc J 64:247-54 F '42

MANNOSAN
Anhydro derivative of D-mannosan <1,5>β<1,6> (presumably 3,4-anhydro-D-talosan <1,5>β<1,6>). R. M. Hann and C. S. Hudson. Am Chem Soc J 64:925-8 Ap '42
D-Mannosan <1,5>β<1,6> from β-phenyl-D-mannoside. E. M. Montgomery, N. K. Richtmyer and C. S. Hudson. bibliog Am Chem Soc J 64:1483-4 Je '42
Syntheses of epi-lactose and lactose. W. T. Haskins, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1852-6 Ag '42

MANNOSE
Crystalline modifications of D-manno-D-galaheptose, and the preparation of some of its derivatives. E. M. Montgomery and C. S. Hudson. bibliog Am Chem Soc J 64:247-54 F '42

MANOMETERS

Determination of water in insulating oil; manometric procedure. R. N. Evans and J. E. Davenport. diag Ind & Eng Chem Anal ed 14:732-3 S 15 '42

Electrical capacitance diaphragm manometer. J. C. Lilly. bibliog il diags R Sci Instr 13:34-7 Ja '42

Flow or liquid level manometer. il Paper Tr J 115:32 Jl 30 '42

Improved manometer design. W. G. Small and A. F. G. Drake. diag Ind & Eng Chem Anal ed 14:244 Mr 15 '42

Manometric test for oxygen absorption by vulcanized rubber. R. H. Johnson. bibliog diag Rubber Age 50:109-13 N '41

Membrane interferometer manometer. J. M. Tobias. diags R Sci Instr 13:232-3 My '42

Oil manometer-manostat to control column throughput. S. A. Hall and S. Palkin. bibliog diags Ind & Eng Chem Anal ed 14:652-4 Ag 15 '42

Photoelectric membrane manometer. W. E. Gilson. diag Science 95:513-14 My 15 '42

Pressure regulating and indicating apparatus for vacuum systems. B. Ferguson, jr. diags Ind & Eng Chem Anal ed 14:164-5 F 15 '42

Simple projection manometer for lecture demonstrations. J. W. Moore and C. M. Furgason. diags J Chem Educ 19:513 N '42

MANOSTATS. See Pressure regulators

MANSFIELD, Ohio

Railroads

Making a 72-year old passenger station look like new. il plans Ry Age 111:903-7+ N 29 '41

MANSLAUGHTER. See Homicide

MANUFACTURERS

Memo to manufacturers, from a public relations counselor on the grand jury. R. W. Riis. Steel 110:57-8+ Mr 2 '42

Directories

Alphabetical directory of manufacturers of aircraft and engine machinery. Aero Digest 40:212-40 Ja '42

See also

Trade directories

MANUFACTURERS' booklets. See Advertising literature

MANUFACTURERS' casualty insurance company

Company analysis. Spectator (Property ed) 7:28-9, 36 Ap 2 '42

MANUFACTURERS' demonstrations. See Department stores—Manufacturers' demonstrations

MANUFACTURERS' liability

Manufacturer of bakery products held not liable in action based on illness resulting therefrom. Pub Health Rep 57:959-60 Je 19 '42

MANUFACTURERS trust company

Annual report to stockholders. H. D. Gibson. Comm & Fin Chr 155:337 Ja 22 '42

MANUFACTURES

Changing pattern of industrial output. Survey of Cur Business 21:3-5 N '41

Energy cost under 1% of product value; ratio of purchased electric energy cost to value of manufactured product; census of manufactures, 1939. Elec W 117:819 Mr 7 '42

Labor turn-over in manufacturing, 1930-41. Monthly Labor R 54:1193-1205 My '42

Productivity and unit labor cost in manufacturing industries. Monthly Labor R 54:1071-2 My '42

Symbols of products manufactured under PRP; alphabetical list of products and industries. Iron Age 149:116-19 Je 25 '42

Work planning in industry [development and promotion of a product principle]. J. K. Louden. Advanced Management 7:98-101+ Jl-S '42

See also

Brickmaking
Catalogs
Chemistry, Technical
Coke manufacture
Commerce
Competition
Cost accounting
Cotton manufacture
Equipment industries
Factories
Factory management
Factory system
Foundries
Fuel
Gas manufacture
Glass manufacture
Industrial mobilization
Industry
Inspection
Junior achievement movement
Knit goods
Labor and laboring classes
Machine shops
Machinery
Metal work
Metals
Paper making
Patents
Prices
Priorities and allocations, Industrial
Production
Products, New
Quality of products
Rayon manufacture
Textile fabrics
Trade marks
Waste products

also subdivision Manufacture under names of manufactured articles, e.g. Automobiles—Manufacture; Cement—Manufacture; Rubber—Manufacture

Statistics

Business inventories in the war period. F. C. Murphy and L. J. Paradiso. Survey of Cur Business 22:6-12+ Je '42

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:19-26 D '41; 22:14-23 My '42

Capital investment in manufacturing increased at new record rate in 1941. Comm & Fin Chr 156:824 S 3 '42

Changes in distribution of manufacturing wage earners, 1899-1939. H. D. Kube and R. H. Danhof. 268p maps U.S. Bur. of the census, Washington; pa 30c Supt. of doc. '42

Crucial inventory; tabulation showing inventory, cash, and net working capital for some 60 large companies. Business Week p72-3 Mr 28 '42

Expansion of shipments in 1941. Survey of Cur Business 22:6-7 Mr '42

Fourteen important financial ratios, for 36 manufacturing industries. R. A. Foulke. Dun's R 49:5-6 D '41

How use of scarce materials affected civilian goods in 1941. W. Hayes. il Dun's R 50:10-12+ My '42

Indexes of the value of manufacturers' inventories at the end of each month; revised series, Dec. 1938-Nov. 1941. Survey of Cur Business 22:22 Ja '42

Industrial production, 1941. Survey of Cur Business 22:18-27 F '42

Manufacturing facilities more effectively employed than ever, Conference board finds. Comm & Fin Chr 156:812 S 3 '42

Relation between factory employment and output since 1899. S. Fabricant. 40p pa 25c Nat. bur. econ. research '42

Will take 1941 census of manufactures; S.1627 lies dormant. Ind Marketing 27:36+ Ja '42

See also

Production—Statistics

Canada

Canadian trade index, annual issue of 1942. 842p $6 Canadian manufacturers' assn, 67 Yonge st, Toronto, 2 '42

Manufacturing industries of Canada, 1939; summary report. 131p pa 50c Canada. Dominion bur. of statistics. Ottawa '42

Puerto Rico

Wage earners and wages in Puerto Rico, 1939. Monthly Labor R 53:1572-4 D '41

United States

Fewer goods, more dollars; with chart showing factory production in the United States, for civilian and other uses. Barron's 22:1 Jl 13 '42

Wartime casualties in marketing; abstract. Management R 31:278-9 Ag '42

Wartime shortages; their effect on civilian industries. R. L. Leger. il Dun's R 50:13-17 Ap '42

Whither industry in democracy's arsenal. D. M. Nelson. Mech Eng 64:7-9 Ja '42

MANUFACTURING chemists association of the United States
Annual meeting, 70th, June 4. Oil Paint & Drug Rep 141:3+ Je 8 '42
Annual report, executive committee. Chem & Eng N 20:782-3 Je 25 '42

MANURES
Manure dehydrator a profitable specialty; James G. Clark, sheet metal contractor. il diags Sheet Metal Worker 33:53-5 Ja '42
See also
Fertilizers

MANUSCRIPTS
Manuscripts live. E. B. Morrison. Special Lib 32:388-90 D '41

MAP projection
Cartographic solution of great circle problems. A. J. Dilloway. diags Roy Aeronautical Soc J 46:4-31 Ja '42

MAPLE
Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41
Studies on lignin and related compounds; high pressure hydrogenation of wood using copper chromite catalyst. H. P. Godard, J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3061-6 N '41
Studies on lignin and related compounds; hydrogenation of wood. J. R. Bower, jr., J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3066-8 N '41
Studies on lignin and related compounds; hydrogenation studies on maple ethanolysis products. L. M. Cooke, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3052-61 N '41
Studies on lignin and related compounds; mechanism of the ethanolysis reaction. W. B. Hewson, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3041-5 N '41
Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41
Studies on lignin and related compounds; the mechanism of the ethanolysis of maple wood at high temperatures. W. B. Hewson, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3045-8 N '41
Supposed extinct maples; may be plane-tree or sycamore. R. W. Brown. Science 96:15 Jl 3 '42

MAPLE sirup
Calcium and manganese in maple sirup; abstract. E. Bois, L. C. Dugal and M. Lessard. Food Ind 14:107 S '42

MAPPING
Control surveys for military mapping; U.S. Coast and geodetic survey speeds the establishment of important reference network. C. L. Garner. il Civil Eng 12:554-5 O '42
Importance of surveys and maps in public work programs; part the WPA has played. M. Y. Poling. il Civil Eng 12:385-8 Jl '42
See also
Geological maps
Photographic surveying

MAPPING, Aerial
Adding third dimension to aerial photos. V. V. Colby. il diags Eng N 128:426-8 Mr 12 '42
Map and aerial photo reading simplified. W. F. Heavey. 4th ed 104p $1 Military service pub. co, 100 Telegraph bldg, Harrisburg, Pa. '42
Stereoscopic projection and map reading. D. J. Fisher. diags Am J Sci 240:642-8 S '42

MAPS
Airplane remakes world geography. G. T. Renner. maps Aero Digest 41:107, 109-10+ S '42
Map reading and avigation. R. M. Field and H. T. Stetson. 129p bibliog(p117) $2.50 Van Nostrand '42
Mineral map of Latin America. Eng & Min J 143:supp Ag '42
Stereoscopic projection and map reading. D. J. Fisher. diags Am J Sci 240:642-8 S '42
See also
Far East—Maps
Geological maps
Relief maps

Bibliography

Bibliography of Pacific area maps. C. H. MacFadden. 107p $1.50 Am. council, Inst. of Pacific relations, San Francisco '41

MAPS, Geological. See Geological maps

MAPS, Military
Control surveys for military mapping; U.S. Coast and geodetic survey speeds the establishment of important reference network. C. L. Garner. il Civil Eng 12:554-5 O '42
Map and aerial photo reading simplified. W. F. Heavey. 4th ed 104p $1 Military service pub. co, Harrisburg, Pa. '41
Military topographic mapping. H. B. Loper. il maps Civil Eng 12:509-12 S '42

MARACAIBO, Lake, Venezuela
Lake exploration extends seven miles from shore. Oil & Gas J 40:152 D 25 '41

MARCH
Month of March; turbulence of March weather. Science 95:sup10 Ap 3 '42

MARCHANT calculating machine company
Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 8 '41

MARGARIN manufacturers, National association of. See National association of margarin manufacturers

MARGARINE. See Oleomargarine

MARIHUANA
Cannabis indica; the essential oil from Egyptian hashish. J. L. Simonsen and A. R. Todd. Chem Soc J p188-91 Mr '42
Tetrahydrocannabinol homologs and analogs with marihuana activity. R. Adams and others. Am Chem Soc J 64:694-7 Mr '42

Analysis

Analytical classes of cannabinol compounds in marihuana resin. C. C. Fulton. bibliog Ind & Eng Chem Anal ed 14:407-12 My 15 '42

MARINE associations
Marine societies. Published in monthly numbers of Marine engineering and shipping review

MARINE biological laboratory, Woods Hole, Massachusetts
Woods Hole marine biological laboratory; meetings of the corporation and trustees. C. Packard. Science 96:253-4 S 11 '42

Library

Library of the Marine biological laboratory at Woods Hole. Science 95:14 Ja 2 '42

MARINE biological station, Port Erin
Marine biological station. Science 95:473 My 8 '42

MARINE biology
Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; diatomaceae. K. E. Lohman. il U S Geol S Professional Pa 196-B:55-86, pl 11-17; pa 45c Supt. of doc. '41
Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; ostracoda. W. L. Tressler. il U S Geol S Professional Pa 196-C:95-104, pl 18-19; pa 15c Supt. of doc. '41
Symposium on hydrobiology. J. G. Needham and others. 405p $3.50 Univ. of Wisconsin press, Madison '41
Wonders of the sea. G. P. Freund. 36p $1 Random house, New York '41

MARINE boilers. See Boilers, Marine

MARINE corps. See United States—Marine corps

MARINE deposits. See Ocean bottom

MARINE engineering

Blue book of facts of marine engineering. E. R. Glass, ed. 16th ed 187p $3 Ocean pub. co, Baltimore '42

Conservation and substitution in marine engineering. J. L. Kimberley. Marine Eng 47: 257-9 O '42

From stationary steam to marine engineer. F. V. Smith. il Power 86:737-9 O '42

Marine engineering. H. L. Seward, ed. v 1 353p $6 Soc. of naval architects and marine engineers, 29 W. 39th st, New York '42

Modern marine engineer's manual. A. Osbourne and others, eds. v 1 1696p $3.50 Cornell maritime press, 350 W. 23d st, New York '41

Modern marine pipefitting. E. M. Hansen. 434p $3 Cornell maritime press, 350 W. 23d st, New York '41

Questions and answers for marine engineers. Published in monthly numbers of Marine engineering and shipping review

Recent towboat developments, with particular reference to Kort nozzle propulsion. A. J. Dawson. il Marine Eng 47:115-20; Discussion. 105, 120 Je '42

Shipbuilding and marine engineering in 1941. il Engineer 173:6-9, 35-7 Ja 2-9 '42

Shop notes for marine engineers. S. M. Elonka. diags Marine Eng 47:186+ S '42

Testing our battlecraft before building them; David W. Taylor model basin. R. G. Skerrett. il diags Comp Air M 47:6651-7 F '42

Twenty-five years of marine progress. W. A. Woodeson. Engineer 172:270-3 O 24 '41

Welding applications in naval machinery. H. W. Hiemke and J. D. Bert. il diags Welding J 21:157-64 Mr '42

See also

Boilers, Marine
Diesel engines, Marine
Gas and oil engines, Marine
Motor ships
Naval architecture
Propellers
Ship model tanks
Shipbuilding
Ship propulsion
Ships—Electric equipment
Steam turbines, Marine
Steamboats
Warships

also Society of naval architects and marine engineers

Study and teaching

His hobby helped the navy; A. E. Banks collection of steam equipment used in training engineers of Naval reserve. il diag Power 86:727-8 O '42

Tables, calculations, etc.

Machinery weights; data for estimating weights of ship machinery. E. A. Stevens, jr. Marine Eng 47:134-7, 156-9 Ag-S '42 (to be cont)

MARINE engineers

Engineers wanted, for fast geared-turbine cargo ships. il Power 86:557-9 Ag '42

Navy's need for engineers. J. W. Barker. J Eng Educ 33:33-6; Discussion. 47-8 S '42

Who will man the Liberty ships? description of power equipment; increasing demand for skilled, experienced engineers. il diag Power 86:461, 463 Jl '42

MARINE engines

General observations on vibration. J. Calderwood. Engineering 152:344-5 O 31 '41

Marine power plant. L. B. Chapman. 2d ed 401p $4 McGraw-Hill '42

Running and maintenance of marine machinery. 2d ed 164p bibliog(p159-62) $2.50 Inst. of marine engineers, London '41

Turbine-electric ships speed oil to mechanized armies; engineers needed. il Power 86: 792-4 N '42

See also

Boilers, Marine
Diesel engines, Marine
Gas and oil engines, Marine
Marine engineering
Motor ships
Ship propulsion
Steam turbines, Marine

Manufacture

Joshua Hendee iron works, Sunnyvale, California retools and expands. Business Week p22 My 2 '42

Liberty ships are driven by triple-expansion steam engines; production methods employed by Hooven, Owens, Rentschler division of General machinery corporation. T. Gilmore and J. Mulcahy. il Mach 49:144-53 N '42

Repair

Sabotaged Italian ship repaired. A. F. Davis. il Welding J 21:184 Mr '42

MARINE fauna

Volumetric microrespirometer for aquatic organisms. P. F. Scholander and G. A. Edwards. diag R Sci Instr 13:292-5 Jl '42

MARINE fauna, Fossil

See also

Foraminifera, Fossil

MARINE flora

See also

Diatoms

MARINE hospitals. See Hospitals, Naval and marine

MARINE insurance. See Insurance, Marine

MARINE midland corporation

Annual report. Comm & Fin Chr 155:603 F 7 '42

MARINE pumps. See Pumps

MARINE sediments. See Ocean bottom

MARINE structures

See also

Concrete construction, Subaqueous
Docks
Piers
Piles and pile driving

MARINE workers

Maritime labor force in the United States. Monthly Labor R 55:435-40 S '42

See also

Longshoremen
Seamen

MARION, Indiana

Sewerage

Sewage sludge digestion; nine months' operation of activated sludge, digestion, vacuum filtration plant. D. Backmeyer. il plan Pub Works 72:12-14+ N '41

MARIONETTES

Masks and puppets. D. S. Green. 83p $3.50 Studio publications, 381 4th av, New York '42

Puppet rodeo that sold Levi Strauss work clothes now boosts war bonds. R. P. Cronin. il Sales Management 50:28, 31+ My 1 '42

MARITAIN, Jacques, 1882-

Portrait. Fortune 25:106 Ap '42

MARITIME commission. See United States—Maritime commission

MARITIME labor board, Federal. See Federal maritime labor board

MARITIME law

Abandonment of ship by master did not dissolve contract of service. Weekly Underw 147:862-3 O 10 '42

Dutch maritime courts installed in Great Britain. Weekly Underw 145:1337 D 13 '41

Official's acts in foreign countries presumed lawful in U.S. courts. East Underw 43:27 Jl 10 '42

Salvage award denied crew of Albionic; members bound to render services with no compensation beyond contract of employment. Weekly Underw 146:899 Ap 18 '42

Sit-down strikes on vessels ruled mutiny. Comm & Fin Chr 155:1633 Ap 23 '42

See also

Admiralty
Insurance, Marine
Mutiny
Shipping—Claims

MARKET, Farm. See Farm market

MARKET, Industrial. See Industrial market

MARKET, Institutional. See Institutional market

MARKET, Military. See Military market

MARKET areas

Boom towns, and others; factual reports from 750 communities as to the impact of increased war expenditures. map Dun's R 49:15-28, 55-81 N '41

Local business charts, '40 and '41. A. Livingston. Adv & Sell 35:36-7 Ja '42

Localities affected by the defense program, by states and towns. Dun's R 49:55-81 N '41

Major trading areas, their sales and income. Sales Management 50:28, 30, 32 Ap 10 '42

Regional market outlook. Published in Business week

Regional trade barometers. L. D. H. Weld. map Dun's R 50:32-7 Ja '42 [cont monthly]

Retail sales index for all cities where increases are expected for year ending February 28; rate of change. Sales Management 50:52-3 Ja 1 '42 [cont monthly]

Sales Management high-spot cities. Published in semi-monthly numbers of Sales management

See also

Metropolitan districts

MARKET research

Allocating interviews by metropolitan districts. D. E. Robinson. Adv & Sell 35:28 S '42

Applied psychology and defense. Barron's 21: 5 D 8 '41

Approach to postwar planning. R. P. Gustin and S. A. Holme. Harvard Business R 20 no 4:459-72 [Jl] '42

Coffee and shoes rank high in wartime needs of males; P.I. survey. P. H. Erbes, jr. Ptr Ink 200:15-16+ Jl 10 '42

Consumers' brand preferences; Milwaukee journal consumer analysis. Ptr Ink 199:38 Ap 3 '42

Dayton workers largely debt-free; future spending plans highly uncertain. P. Salisbury. Sales Management 51:62-4 Jl 1 '42

Dealer, consumer education takes sag out of cigar sales curve. il Sales Management 49:50, 52 D 15 '41

Face powder and lipstick, tops among indispensables; 1,000 women tell P. I. investigators what they can and can't get along without. Ptr Ink 199:13-14 Ap 24 '42

Farmer is nation's top beneficiary from expanding war program. Sales Management 50:24-6+ Ja 1 '42

General Electric's post-war planning. W. M. Timmerman. Refrig Eng 44:162-5+ S '42

How to lick the problem of interview cheating; research's field worker dilemma. R. N. King. Adv & Sell 35:46 O '42

How to measure brand loyalty; four important factors are basis of coffee preference study. H. L. Churchill. Adv & Sell 35:24+ Ag '42

Industry's search for industrial markets; abstract and discussion. E. Roper. Mech Eng 64:212 Mr '42

Market that lives upside down; quick picture of the night-shift worker, his buying habits, needs and complaints. G. Bijur. diag Adv & Sell 35:13-15+ Ap '42; Abstract. Management R 31:135-7 Ap '42

Research for post-war planning; a practical five-point program. L. O. Brown. Sales Management 51:23-4 O 10 '42

Research today for tomorrow's markets. V. D. Reed. Ind Marketing 27:25-7+ Ap '42

Scientific sampling in business. T. H. Brown. Harvard Business R 20 no 3:358-68 [Ap] '42

Six ways of using market research now to aid post-war sales. D. R. G. Cowan. Ptr Ink 197:63-5 D 26 '41

This is Dayton: a 1942 boom town that retains its sense of values. D. Martin. il Sales Management 51:53-4, 56, 61 Jl 1 '42

What happens to sales after the merchandise gets to wholesaler? Gary, Ind. check-up revealed that 80% of wholesale buying was done outside of city. Sales Management 51:60, 62 N 1 '42

What the consumer thinks; expenditure channels. Adv & Sell 34:30-1 D '41

What type and quality of goods do soldiers buy at post exchanges? L. B. Colby. il Sales Management 51:22-4 Ag 1 '42

Working manual for sales control of the New York market; New York Journal-American research. Ptr Ink 199:71 My 22 '42

Works toward standardized research. Ptr Ink 198:56 F 20 '42

See also

Market statistics

MARKET statistics

After "X" day we must sell twice as much as ever before, or else! P. Salisbury. Sales Management 51:16-18 O 10 '42

Boom towns, and others; factual reports from 750 communities as to the impact of increased war expenditures. map Dun's R 49:15-28, 55-81 N '41

Business uses of data by census tracts and blocks. V. D. Reed. Am Statis Assn J 37: 238-44 Je '42

Figures behind the man-power problem. Business Week p58 N 29 '41

40 billion dollars for discretionary spending. E. R. Smith. Ptr Ink 199:13-15+ Je 12 '42

Index to markets. Business Week p76+ O 17 '42

Industrial Marketing 1942 market data book number. il maps Ind Marketing 26:1-394 O 25 '41

Journal-American tells how to control sales in N.Y. Sales Management 50:74 Je 15 '42

Local business charts, '40 and '41. A. Livingston. Adv & Sell 35:36-7 Ja '42

Marketing pictographs. Sales Management 50: 33+ Ja 15 '42 [cont monthly]

Our hundred billion dollar income and how it's divided by cities and areas; estimates up to Sept. 30, 1942, together with current population estimates for 229 major cities; with pictograph. Sales Management 51:25, 27-30 O 10 '42

Quarter-ahead effective buying income; tabulation. map Sales Management 50:48 Ja 1 '42

Regional market outlook; a guide to regional sales trends. Business Week p46-7 D 27 '41; 54-5 Mr 28; 58-9 Je 27; 44-5 Ag 29; 66-7 O 3; 62-3 N 7; 78-9 D 5 '42

Retail sales index for all cities where increases are expected for year ending February 28; rate of change. Sales Management 50:52-3 Ja 1 '42 [cont monthly]

Sales Management high-spot cities. Published in semi-monthly numbers of Sales management

Sales Management survey of buying power, 1942; retail sales, effective buying income and other indices of buying power, with census data on population, families, farms, owner-occupied dwellings, rental value. il maps Sales Management 50:9-268 Ap 10 '42

13 states have most buyers. Credit & Fin Management 44:31-2 Ja '42

Tip on where to find war boom towns; increased tea and coffee rations; tabulation. Business Week p24 Je 6 '42

War between the states (as measured by bond sales and new-home building); pictograph. Sales Management 51:34 S 15 '42

See also

Consumption (economics)—Statistics

MARKET stores

11th I.E.S. prize competition; lighting a super food market. W. I. Knapp. il plans Illum Eng 37:519-28 S '42

Expanded sales volume expected for supermarkets. M. M. Zimmerman. il Ptr Ink 198: 22-4 Mr 27 '42

First study of super markets published by Sherman K. Ellis & co. Adv & Sell 35:32 S '42

Self-service pricing; white spot for price-marking. il Mod Packaging 16:48-50 N '42

Super-market man sees growing peril for national brands. L. A. Johnson. Ptr Ink 197:15-17 D 5 '41

Supers carry on. Business Week p60+ O 3 '42

MARKET surveys

Better sampler; Magazine marketing service tries out testing answers against census data. Business Week p48+ My 2 '42

Boom towns, and others; factual reports from 750 communities as to the impact of increased war expenditures. map Dun's R 49:15-28, 55-81 N '41

Changing pattern of industry. il Adv & Sell 35:34+ Ag; 34, 36, 39-40 S; 38+ O; 40, 43-4+ N '42

How Binghamton is making customer survey. Gas Age 89:12-14 F 26 '42

New sales methods; A.G.A. subcommittee report. Am Gas Assn Proc 1941:262-96

Sixty best test markets evaluated on an efficiency basis. Sales Management 50:37-8 Mr 15 '42

U.S. Chamber sees post-war demand for appliances. Pub Util 30:671-2 N 5 '42

U.S. Chamber survey probes post-war market. East Underw 43:38 Ag 21 '42

Vast post-war demand for goods expected; Chamber of commerce of the United States survey. Bankers M 145:227-8 S '42

War turns markets upside down and some will stay that way. F. G. Hubbard. Sales Management 51:92 O 10 '42

Why the gas industry needs detailed market studies. H. O. Loebell. Gas Age 89:15-18+ Ap 23 '42

See also

Consumption (economics)
Market research
Market statistics

MARKETING

Consumers and the market. M. G. Reid. 3d ed 617p bibliog(p582-600) $3.85 Crofts '42

Daring change in distribution pattern caused by war conditions; advertising and selling chewing gum to war plants. P. K. Wrigley. il Ptr Ink 200:13-15+ Jl 31 '42

Department stores start fight on fake wholesale and retail sales outlets. Ptr Ink 197:33-4+ N 14 '41

Effects of the war on British marketing; a guide for American business. E. R. Hawkins. U S Bur For & Dom Com Economic Ser 18:1-74; pa 15c Supt. of doc. '42

Industrial Marketing 1942 market data book number. Ind Marketing 26:1-394 O 25 '41

Literature crashes mass market; Pocket-BOOKS, inc. has used over-the-counter merchandising methods. il Ptr Ink 200:59-60 Jl 17 '42

Market guide, 1942; complete market information for 1485 cities and towns of the U.S., Canada and Philippines. v48 264p $2 Editor & publisher, 1475 Broadway, New York '41

Marketing; functions, mediums, practices, variations, and appraisal. F. L. Vaughan. 639p $3.50 Farrar '42

Marketing management. J. F. Pyle. 405p pa $3 John Freeman Pyle, Ypsilanti, Mich. '42

Marketing of petroleum products in the defense program. J. W. Frey. Am Pet Inst Proc 22(1):74-7; Discussion. 77-84 '41

Marketing under war conditions. E. H. Gault, ed. 52p pa $1 Univ. of Michigan, School of business administration, Bur. of business research, Ann Arbor '42

Outlines of marketing. H. E. Agnew, R. B. Jenkins and J. C. Drury. 2d ed 410p $3 McGraw-Hill '42

Place of credit in marketing available civilian supplies. J. H. Stehman. Credit & Fin Management 44:19-20 Je '42

Report of the twenty-third annual convention of the National association of marketing officials, St Louis, Mo., Oct. 28-30, 1941. 77p Nat. assn. of marketing officials, 1030 State office bldg, Richmond, Va. '41

This packaged sales story sells jobbers on pushing full line; Manning, Maxwell & Moore's visual presentation. L. H. Brendel. il Sales Management 50:36-9 Ja 1 '42

This sales control plan keeps tabs on a line of 45,000 items; United Motors Service operates a perpetual inventory system on stocks clearing through its twenty branches. Sales Management 50:52+ Ap 20 '42

Tire ban reduces jobber calls and deliveries, but orders are larger; interviews with grocery and hardware wholesalers. P. Salisbury. Sales Management 50:36, 40-1 Mr 1 '42

U.S. lose peace? easy enough if distribution stays unsolved. V. D. Reed. Ptr Ink 198:13-15 F 27 '42

What to do about civilian selling in wartime. P. T. Cherington. Adv & Sell 35:13-15, 64-5 Ag '42

When to use a store-door distributor. P. F. Leach. il Mod Packaging 15:36-9+ D '41

Who gets goods? rationing reduced civilian output to customers. Business Week p19-20 N 29 '41

Why Heinz and Sun-Maid merged their selling. H. L. Scott. Adv & Sell 35:22 N '42

See also

Advertising
Brokers
Chain stores
Containers
Dealer helps
Dealer relations
Display of merchandize
Distribution (economics)
Exchanges
Exhibits
Farm market
Farm produce—Marketing
Industrial market
Institutional market
Jobbers
Jobbers, Wagon
Mail order business
Market stores
Merchandizing
Military market
Post exchanges
Price policies
Private brands
Products, New
Retail trade
Sales management
Sales policies
Salesmanship
Salesmen
Salesmen, Retail
Securities—Marketing
Warehouses
Warehousing

Accounting

Case studies in distribution cost accounting for manufacturing and wholesaling. 215p U.S. Federal trade commission, Washington; 25c Supt. of doc. '41

Bibliography

Marketing management; abstracts. Published in monthly numbers of Management review

Chain store outlets

How to promote the sale of your wares through the dime stores. F. W. Nye. il Sales Management 51:22-4 S 15 '42

How variety stores evaluate sales helps. il Mod Packaging 15:69-73 F '42

How will the war affect the five & dime business? J. Reiss. il Sales Management 51:18-20 Ag 1 '42

Cost

Distribution costs, an international digest. M. P. McNair and others, eds. 652p bibliog(p627-52) $10 Harvard univ. Bur. of business research, Boston '41

Distribution costs; wasting at the bunghole. E. G. Nourse. 25p pa 25c Brookings institution, 722 Jackson pl, NW, Washington, D.C. '42

Marketing costs and efficiency. N. H. Engle. Trusts & Estates 75:211-14 S '42

1941 marketing expenses of 305 industrial concerns; pictograph. Sales Management 50:36 Mr 15 '42

Department store outlets

Today's sales opportunities in the department store market. J. C. Cumming. il Sales Management 50:18-19 Mr 15 '42

Direct selling

See also

Canvassing

Small town outlets

Small towns become market for branded fashion lines. Ptr Ink 200:34 Jl 17 '42

Zoning regulations

Closely confined distribution zones seem to be on way; sugar as an illustration. C. J. Swan. maps Ptr Ink 201:19-21, 56-7 O 30 '42

MARKETING, Cooperative

Farmers' marketing and purchasing cooperatives, 1863-1939. R. H. Elsworth and G. Wanstall. Monthly Labor R 54:692-5 Mr '42

MARKETS, New

Markets shot, materials short, but Gardner ingenuity comes through. G. W. Roland, jr. il Sales Management 49:62+ D 1 '41

MARKING

Markers for a wide range of machine uses. il Sci Am 165:344-5 D '41

See also

Labels

MARKS and Spencer, limited

Ordinary general meeting, 16th, London. Economist 142:844 Je 13 '42

MARL

Edisto river, Goose Creek tunnel aqueduct, Charleston, S.C.; tunnel driven thru marl. J. E. Gibson. il diags plan map N E Water Works Assn J 56:102-22 Mr '42

MARMATITE

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

MARMON-HERRINGTON company

Stock offered. Comm & Fin Chr 154:1379-80 D 6 '41

MARRIAGE

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

MARRIAGE law

Presumption of validity of subsequent ceremonial marriage held superior to presumption that prior marriage continues in force. Weekly Underw 146:1310 Je 6 '42

MARS (planet)

Temperature estimates of the planet Mars, 1924 and 1926. W. W. Coblentz. bibliog J Research Nat Bur Stand 28:297-309 Mr '42

MARSHALL, J. Howard, 1905-

OPC's chief counsel. por Nat Pet N 34:10 S 30 '42

MARSHALL Field and company

Decking a Wave; how Marshall Field does it. il Business Week p48 O 31 '42

Public offering planned of 230,000 shares of common stock. Comm & Fin Chr 154:1055 N 15 '41

Stock sold. Comm & Fin Chr 154:1265-6 N 29 '41

MARSHES

Building airports on New England's bogs. il diags Eng N 129:153-5 Jl 30 '42

Ditching with dynamite. il diags Explosives Eng 20:255-61 S '42

Drilling in swamp area of Louisiana Gulf coast simplified by use of barges. C. C. Pryor. il diags Pet Eng (Annual no) 13: 122, 124, 126 [Jl] '42

Marsh buggy important in Louisiana development. Oil & Gas J 40:51 Ja 1 '42

Safe jobs save time; building transmission line through swampy, heavily wooded country; safety measures put into operation by engineer of casualty insurance company. A. W. Meinke. il Eng N 128:868-70 My 21 '42

Swamp buggy at work; laying natural gas line. H. Miller. il Gas Age 89:44-5+ My 7 '42

Track wagons on swampy land. Pulp & Pa of Can 43:324 Mr '42

See also

Drainage

MARSHMALLOW cream

How to make better marshmallow cream. T. Cordero and C. Shackelford. il Food Ind 14:58-9 O '42

MARTENSITE

Formation and properties of martensite on the surface of rope wire. E. M. Trent. Iron & Steel Inst J 143:401-12, pl 50-3 no 1 '41; Discussion. 143:413-19, pl 53a no 1; 144: 295-308 no 2 '41

Martensite thermal arrest in iron-carbon alloys and plain carbon steels; helium gas as quenching medium. A. B. Greninger. bibliog il diag Am Soc for Metals Trans 30:1-26 Mr '42

Tetragonal martensite, or Don't lose your eye; danger in striking hardened steel with hammer. il Safety Eng 83:31 My '42

MARTIN, Glenn L., company

Builder of bombers. S. Altschul. Barron's 22:7 Ja 26 '42

Connecticut General underwrites large group case for Glenn L. Martin co. East Underw 43:6 Mr 27 '42

MARTIN, Glenn Luther, 1886-

Gift to Institute of the aeronautical sciences. por Aeronautical Eng R 1:10-11 Jl '42

MARTIN, Homer

Investors, arise! H. Martin organizing corporate stockholders. Business Week p82-3 Jl 11 '42

MARTINIQUE

Black Martinique, red Guiana. N. Smith. 312p $3.50 Bobbs '42

Showdown on Martinique. Business Week p29-30 My 16 '42

U.S. and Martinique conclude agreement. Comm & Fin Chr 155:8 Ja 1 '42

MARTINS bank, limited

Statement to shareholders. F. A. Bates. Economist 142:127-8 Ja 24 '42

MARYLAND

Maryland main and the eastern shore. H. Footner. 331p $5 Appleton-Century '42

See also

Geology—Maryland

Sanitary affairs

Controlling pollution of oyster-growing waters of Chesapeake bay. G. L. Hall. il maps Civil Eng 11:715-17 D '41

MARYLAND casualty company

Invitation of tenders. Comm & Fin Chr 156:344 Jl 27 '42

New financing plans. Weekly Underw 147: 562+ S 12 '42; Nat Underw 46:25 S 17 '42

Proposed loan from RFC, to expand. Comm & Fin Chr 156:697 Ag 24 '42

RFC loan approved, etc. Comm & Fin Chr 156:961-2 S 14 '42

MARYLAND drydock company

Common stock offered. Comm & Fin Chr 154:1596-7 D 20 '41

MASARYK, Tomáš Garrigue

Bibliography

Tomáš Garrigue Masaryk; a list of works by and about the first president of Czecho-Slovakia in the New York public library. A. Yarmolinsky, ed. N Y Public Lib Bul 45: 989-96, 1029-44 N-D '41; Reprint. 27p New York public lib, New York '41

MASHES. See Fermentation

MASKS

Masks and puppets. D. S. Green. 83p $3.50 Studio publications, 381 4th av, New York '42

MASONITE

Save metals with light substitutes, for drilling jigs in aircraft manufacture. il Steel 111:62 Ag 3 '42

MASONITE corporation

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 8 '41

High court upsets patent price pact. Comm & Fin Chr 155:1922 My 18 '42

Masonite corp. improves mill at Laurel to increase output 20 per cent. il Paper Tr J 113:53-4 N 27 '41

Masonite distributes seedlings. Paper Tr J 115:23 S 10 '42

Masonite's operations. B. Alexander. Barron's 21:5 N 17 '41

MASONRY

Brickwork and masonry. E. Molloy, ed. 140p $2.50 Chemical pub. co. '42

C.N.R. uses new method of repairing concrete and masonry structures. E. J. Napier. il Roads & Bridges 80:25-7+ S '42

MASONRY—*Continued*
Doweled masonry. F. Heath, jr. plans Am Cer Soc Bul 21:165-6 Ag 15 '42
Good practice in concrete masonry wall construction. K. C. Tippy. il diags Am Concrete Inst J 13:317-28 F '42; Discussion. 13:sup 328^1-328^{15} N '42
Possibilities of masonry engineering. F. Heath, jr. Am Cer Soc Bul 21:142-5 Jl 15 '42
Relative value of masonry wall types in ability to resist rain. diags Concrete 50: 18+ S '42
Rubble masonry for road culverts and retaining walls. L. M. Winsor. il Civil Eng 12:36-7 Ja '42
Rubble masonry to save critical materials. L. M. Winsor. il diags Eng N 128:482-4 Mr 26 '42
Southwest does real job in all clay masonry. il Brick & Clay Rec 100:50+ My '42
Specification for mortar for concrete masonry. Concrete 50:17-18 Ag '42
Specification standards for government work. H. R. Sleeper. Arch Rec 91:62-4 Ja '42
What causes volume changes in masonry? F. O. Anderegg. bibliog Rock Prod 44:90 D '41

See also
Brick construction
Bricks
Bridges—Foundations and piers
Building
Cement
Concrete
Concrete blocks
Dams
Foundations
Mortar
Plaster and plastering

Testing

Properties of Speedbrik wall construction. Franklin Inst J 234:386 O '42

MASS (chemistry)
Mass differences of the fundamental doublets used in the determination of the isotopic weights C^{12} and N^{14}. E. B. Jordan. diags Phys R 60:710-13 N 15 '41
Mass of the meson by the method of momentum loss. J. A. Wheeler and R. Ladenburg. bibliog Phys R 60:754-61 D 1 '41

MASS spectrograph. See Spectrograph, Mass

MASS spectrometers. See Spectrometers, Mass

MASSACHUSETTS

See also
Geology—Massachusetts

Commerce

Maritime history of Massachusetts, 1783-1860. S. E. Morison. 420p bibliog(p399-410) $4 Houghton '41

Economic conditions

Massachusetts in a defense economy. A. P. Comstock, ed. 47p bibliog(p47) pa 25c Dept. of economics and sociology, Mount Holyoke college, South Hadley, Mass. '41

MASSACHUSETTS institute of technology
Adjustments in the educational program. Science 95:90-1 Ja 23 '42
M.I.T. at war. K. T. Compton. il Tech R 45:17-18 N '42
New mineral dressing curriculum and laboratories at M.I.T. A. M. Gaudin. il Min & Met 23:376-7+ Jl '42
Progress at the Massachusetts institute of technology. K. T. Compton. Science 94:587-8 D 19 '41
Will it help to win? Institute's record in war work and education. K. T. Compton. Tech R 45:31-4 N '42

Dard Hunter paper museum

Hunter museum to be open for TAPPI. Paper Tr J 115:13 S 10 '42

MASSACHUSETTS mutual life insurance company
Annual statement to directors. B. J. Perry. East Underw 43:3+ F 20 '42
Massachusetts Mutual Life made marked gains in 1941, Pres. Perry reveals in report to policyholders. Comm & Fin Chr 155:764 F 19 '42

MASSON, André, 1896-
Twelve artists in U.S. exile. Fortune 24:107 D '41

MASTER and servant
Liability of private home owner; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:28-9+ O 15 '42

See also
Apprentices
Employers' liability
Servants

MASTER boiler makers' association
Reports and papers. Ry Mech Eng 116:446-61 N '42

MASTODON
Earliest account of the Association of human artifacts with fossil mammals in North America; article by A. C. Koch printed in 1839. M. F. A. Montagu. Science 95:380-1 Ap 10 '42

MATCH plates. See Pattern making

MATCHES
Hold that light! supply assured by industry's far-sightedness. Business Week p20 Jl 25 '42
Match shortage. Economist 141:561 N 8 '41

MATÉ
Yerba mate to be used as source of caffeine. Oil Paint & Drug Rep 142:7+ Ag 31 '42

MATERIA medica
Introduction to materia medica and pharmacology. H. A. McGuigan and E. E. Krug. 3d ed 779p $3.50 C. V. Mosby co, St Louis '42
Synopsis of materia medica, toxicology, and pharmacology, for students and practitioners of medicine. F. R. Davison. 2d ed 695p $5.75 C. V. Mosby co, St Louis '42
Textbook of materia medica, pharmacology and therapeutics. H. N. Wright and M. Montag. 2d ed rev 647p $3 Saunders '42

See also
Anesthetics
Anesthetics, Local
Antispasmodics
Drugs
Hypnotics
Medicine
Mydriatics
Narcotics
Pharmacology

MATERIA medica, Dental
Pharmacology and dental therapeutics. H. Prinz and U. G. Rickert. 8th ed rev 507p bibliog(p464) $6.50 C. V. Mosby co, St Louis '41
Textbook of dental pharmacology, materia dentica and pharmaco-therapeutics. W. H. O. McGehee and M. W. Green. 2d ed 462p $5 Blakiston '41

MATERIAL control

See also
Inventories
Purchasing
Stores systems

MATERIALISM
Philosophy in a world at war; ultimate nature of the ideal and of the real. W. P. Montague. Fortune 25:102-4+ Mr '42

MATERIALS
Alternate materials in product design; a symposium. H. W. Gillett and others. il Metals & Alloys 15:67-79 Ja '42
Benefits of material standardization. F. G. Jenkins. bibliog Mech Eng 64:545-8+ Jl '42
Condensed review of some recently developed materials, arranged alphabetically by trade names. Mach 49:174-84 O '42
Conservation and reclamation of materials; papers read at 1941 A.S.M.E. annual meeting. Mech Eng 64:25-32 Ja '42
Critical materials, their conservation by the use of alternates. J. Horn. il Gen Elec R 45:407-14 Jl '42; Excerpt. Steel 110:34-5, 59-62 Je 8 '42; Abstracts. Elec Eng 61:318-19 Je '42; Chem & Eng N 20:957-9 Ag 10 '42
Designing for materials conservation. il diags Product Eng 13:181-246 Ap '42
Directory of materials. Machine Design 14: 121-96 O '42

MATERIALS—*Continued*

How to use materials as a tool for greater production. il Factory Management 100: 104-15+ Ag '42

Materials for the construction of chemical engineering equipment. il Chem & Met Eng 49:85-128 S; 99-100 O '42

New materials. il Automotive & Aviation Ind 87:94-5+ O 1 '42

New materials and finishes of 1941; with reference table. F. P. Peters. Metals & Alloys 15:82-90 Ja '42

Reference table of alternates and substitutes. Metals & Alloys 15:80-1, 403-4; 16:68, 437, 1089-90 Ja, Mr, Jl, S, D '42

Repairing roofs without priority materials; two sprayed on coatings of transparent mastic and slate granules. il Sheet Metal Worker 33:27-8+ O '42

Substitutes, replacements, alternatives! R. C. Osborn. il Machine Design 14:73-6 F '42

Textbook of the materials of engineering. H. F. Moore. 6th ed 454p $4 McGraw-Hill '41

See also

Airplanes—Materials
Automobiles—Materials
Bleaching materials
Building materials
Ceramic materials
Electric industries—Materials
Glass making materials
Granular materials
Insulating materials
Paint materials
Paper making materials
Plastic materials
Printing materials
Raw materials
Refractory materials
Refrigerating and refrigerating machinery—Materials
Road materials
Shipbuilding—Materials
Soap materials
Strength of materials
Tanning materials

MATERIALS, Strength of. See Strength of materials

MATERIALS handling. See Handling of materials; Mechanical handling

MATERNAL mortality. See Mortality—Statistics

MATERNAL welfare

Maternal and child-health services under the Social security act; development of program, 1936-39. maps U S Children's Bur Pub 259:1-109; pa 15c Supt. of doc. '41

New maternity protection act in Germany. Int Labour R 46:598-601 N '42

MATHEMATICAL instruments

See also

Calculating machines
Integrators
Slide rule

MATHEMATICAL physics

Calculation of axially symmetric fields. S. Bertram. J Ap Phys 13:496-502 Ag '42

Elliptic cylinder and spheroidal wave functions; including tables of separation constants and coefficients. J. A. Stratton and others. 127p bibliog(px-xii) pa $1 Wiley '41

See also

Aerodynamics
Elasticity
Electricity
Gases
Hydrodynamics
Impact
Magnetism
Sound
Statistical mechanics
Thermodynamics

MATHEMATICAL statistics

Accumulating cubes with punch cards. M. M. Sandomire. Am Statis Assn J 36:507-14 D '41

Classification of the problems of statistical inference. W. E. Deming. diag Am Statis Assn J 37:173-85 Je '42

See also

Statistical methods

MATHEMATICIANS

Mathematicians and the war. A. Kolmogorov. Science 96:248 S 11 '42

Training of mathematicians. R. S. Burington. J Eng Educ 32:346-52 D '41

MATHEMATICS

Aircraft mathematics. S. A. Walling and J. C. Hill. 189p 2s 9d Cambridge univ. press, Cambridge, Eng. '41

Airmen's mathematics. M. J. G. Hearley and R. L. Smith. 115p 3s 6d Pitman '41

Aviation mathematics. A. F. Buchan, R. Borthwick and W. R. Wadden. 136p 88c Houghton '42

Basic college mathematics; a general introduction. C. W. Munshower and J. F. Wardwell. 612p $3.20 Holt '42

Basic mathematics. W. Betz. 502p $1.48 Ginn '42

Basic mathematics; a survey course. W. W. Hart. 456p $1.52 Heath '42

College course in business mathematics. H. Smithline and C. O. Thompson. 317p $1.40; school ed $1.05 Prentice-Hall '42

Draftsman's mathematical manual. E. V. Oberg, ed. 2d ed 265p $2 Industrial press, New York '41

Elementary aircraft mathematics; a revision course. J. B. Channon and A. M. Smith. 97p pa 60c Longmans '42

Elementary mathematics for wireless operators. W. E. Crook. 63p $1.40 Pitman '41

Elementary mathematics in artillery fire. J. M. Thomas. 256p $2.50 McGraw-Hill '42

First course in mathematics; for students of engineering and the physical sciences. E. Baker. 295p $3 Van Nostrand '42

First year college mathematics. C. C. Richtmeyer and J. W. Foust. 461p $3.25 Crofts '42

General mathematics; a third course in the new mathematics. E. I. Edgerton and P. A. Carpenter. new ed 467p $1.40 Allyn and Bacon, New York '41

General trade mathematics. E. P. Van Leuven. 575p $3.50 McGraw-Hill '42

Gist of mathematics. J. H. Moore and J. A. Mira. 726p; Tables. 16p $5.35; school ed $4 Prentice-Hall '42

Imaginary in engineering mathematics. G. W. Stubbings. Electrician 127:331 D 12 '41; Discussion. R. Feinberg. 128:10 Ja 2 '42

Imaginary in mathematics. C. Turnbull. Electrician 128:93-4, 336 F 6, Ap 10 '42

Logarithms, trigonometry, statistics; first year college mathematics. H. R. Cooley and others. 280p $2 McGraw-Hill '42

Machine shop mathematics. A. Axelrod. 368p $2.50 McGraw-Hill '42

Mathematical operations with punched cards. J. C. McPherson. Am Statis Assn J 37:275-81 Je '42

Mathematical refresher. A. Hooper. 306p $2.75 Oxford (Toronto) '41

Mathematics for A.T.C. E. H. Chapman and E. E. Mount. rev & enl ed 80p pa 1s 9d A. Wheaton & co, Exeter, Eng. '41

Mathematics for electricians and radiomen. N. M. Cooke. 604p $4 McGraw-Hill '42

Mathematics for everyday use. W. L. Schaaf. 363p 69c Garden City pub. co, 14 W. 49th st, New York '42

Mathematics for the aviation trades. J. Naidich. 267p $1.80 McGraw-Hill '42

Mathematics in action. W. W. Hart and L. D. Jahn. alternate ed bk 3 442p $1.32 Heath '42

Mathematics in agriculture. R. V. McGee. 189p $4; school ed $3 Prentice-Hall '42

Mathematics in daily use. W. W. Hart, C. Gregory and V. G. Schult. 376p $1.32 Heath '42

Mathematics in human affairs. F. W. Kokomoor. 754p $5.35; school ed $4 Prentice-Hall '42

Mathematics of air and marine navigation. A. D. Bradley. 103p $1 Am. book co. '42

Mathematics of business and finance. W. B. Dyess and R. O. Gilmore. 221p, 214p $3.50 McGraw-Hill '42

Mathematics of modern engineering; v. 2, Mathematical engineering. E. G. Keller. 309p $4 Wiley '42

Mathematics of the shops. F. J. McMackin and J. H. Shaver. 444p $2.50 Van Nostrand '42

Mathematics of wireless. R. Stranger. rev & enl ed 215p $3 Chemical pub. co. '42

Mathematics refresher. A. Hooper. 342p $2.50 Holt '42

Papers in mathematics. (Circ. 177) pa 10c Lehigh univ, Bethlehem, Pa. '42

Polish up your mathematics. R. C. Fawdry. 194p $1.50 Oxford (Toronto) '42

MATHEMATICS—*Continued*

Practical mathematics for home study; being the essentials of arithmetic, geometry, algebra and trigonometry. C. I. Palmer and S. F. Bibb. 3d ed 697p $4 McGraw-Hill '42

Practical mathematics for shipfitters and other shipyard workers. L. Q. Moss. 108p $1.50 Pitman '41

Shop mathematics and shop theory. J. M. Amiss, G. K. Shurtleff and H. G. Moltzau. 372p $1.50 Dept. of industrial education, Chrysler corp, Detroit '42

Shop mathematics at work. P. L. Welton and W. W. Rogers. 204p pa $1.56 Silver Burdett co, 45 E. 17th st, New York '42

Simplified industrial mathematics. J. H. Wolfe, W. F. Mueller and S. D. Mullikin. 281p $2 McGraw-Hill '42

To discover mathematics. G. M. Merriman. 435p $3 Wiley '42

Vocational mathematics. v. 1, Shop arithmetic; v. 2, Shop geometry, algebra, trigonometry. H. G. Schumacher. 132p; 158p; v 1 $1.50; pa $1; v2 $2; pa $1.50 Goodheart-Willcox co, 2009 S. Michigan av, Chicago '40-'41

What is mathematics? an elementary approach to ideas and methods. R. Courant and H. Robbins. 521p bibliog(p511-14) $5 Oxford '41

See also

Algebra
Arithmetic
Calculus
Charts (calculating)
Differential equations
Errors, Theory of
Fourier's series
Functions
Graphic methods
Groups, Theory of
Integration
Least squares
Mathematical physics
Matrices
Probabilities
Statistical methods
Trigonometry
Vector analysis

also Putnam, William Lowell, mathematical competition

Dictionaries

Mathematics dictionary. G. James and R. C. James, eds. 259p $3 Digest press, Van Nuys, Calif. '42

Philosophy

Consistency of the axiom of choice and of the generalized continuum-hypothesis with the axioms of set theory. K. Gödel. 66p pa $1.25 Princeton univ. press '40

Study and teaching

Training of mathematicians. R. S. Burington. J Eng Educ 32:346-52 D '41

Bibliography

Bibliography of mathematical education. W. L. Schaaf. 144p pa $1.50 Stevinius press, box 33, Forest Hills, N.Y. '41

Tables, calculations, etc.

Barlow's Tables of squares, cubes, square roots, cube roots and reciprocals of all integer numbers up to 12,500. L. J. Comrie, ed. 4th ed 258p $3 Chemical pub. co. '41

Mathematical tables from Handbook of chemistry and physics. C. D. Hodgman, comp. 7th ed 354p $1.25; pocket ed 75c Chemical rubber pub. co, Cleveland '41

New York mathematics tables project. R. C. Archibald. Science 96:294-6 S 25 '42

Ten tables available thru National bureau of standards. J Research Nat Bur Stand 28:cover p3-4 F '42

Thirteen tables available thru National bureau of standards. J Research Nat Bur Stand 29:cover p3-4 O '42

MATHEWSON, Champion Herbert

Sketch. por Metal Prog 41:184-6 F '42

MATHIESON alkali works, inc.

Another look at your company. il Mag of Wall St 70:129-30 My 16 '42

Basic producer of heavy chemicals to make magnesium. Barron's 22:22 S 21 '42

50 years of pioneering. il Manuf Rec 111:28-9 Mr '42

Marks 50 years. il Oil Paint & Drug Rep 141: 5+ F 16 '42

Mathieson Alkali observes 50th birthday. il Chem & Eng N 20:270, 272-3 F 25 '42

Mathieson right to oyster-shell burning process upheld. Chem & Eng N 20:328 Mr 10 '42

Mathieson's 50th year. Soap & San Chem 18: 37 F '42

Saga of salt. flow charts il Chem Ind 50: 184-93 F '42

Upheld in patent dispute. Comm & Fin Chr 155:827 F 24 '42

MATHIEU equation

Stability of oscillations in systems obeying Mathieu's equation. J. G. Brainerd. Franklin Inst J 233:135-42 F '42

MATRICES

Matrix theorem. A. Pen Tung Sah. Elec Eng 60:615-16 D '41

Matrix theory of torsional oscillations. L. A. Pipes. J Ap Phys 13:434-44 Jl '42

New method for obtaining the inverse matrix. M. D. Bingham. Am Statis Assn J 36:530-4 D '41

MATTER

Large scale distribution of matter in the universe. F. Zwicky. bibliog il Phys R 61: 489-503 Ap 1 '42

Matter, energy and radiation. J. R. Dunning and H. C. Paxton. 668p $3.50 McGraw-Hill '41

See also

Adsorption
Atoms
Chemistry
Colloids
Compressibility
Diffusion
Dissociation
Elasticity
Electrons
Gases
Hardness
Ions
Molecules
Physics
Quantum theory
Radioactivity
Solids
Solution (chemistry)
Specific gravity
Viscosity
Wave mechanics

MATTRESSES

Uneasy bedding; makers of mattresses see difficult days ahead. Business Week p32+ D 13 '41

MAUDSLAY, Henry, 1771-1831

Henry and Joseph Maudslay. front Inst Mech Eng J & Proc 147:53 Je '42

MAUDSLAY, Joseph, 1801-1861

Henry and Joseph Maudslay. front Inst Mech Eng J & Proc 147:53 Je '42

MAURITIUS hemp

Colombian fique fiber. For Comm W 7:33 Je 27 '42; Same. Textile Col 64:386 Ag '42

MAXIMUM demand meters. See Demand meters

MAYAS

Civilization of the Mayas. J. E. S. Thompson. 4th ed 105p bibliog(p98-9) pa 60c Field museum of natural history, Chicago '42

Antiquities

Maya temple grows up; archeologists in Guatemala reveal evidences of five-times-reconstructed temple. L. Satterthwaite, jr. il diags Sci Am 167:18-19 Jl '42

MAYER, Julius Robert, 1814-1878

Julius Robert Mayer. R. E. Oesper. por (front) J Chem Educ 19:134 Mr '42

MAYO, Charles Horace, 1865-1939

Doctors Mayo. H. Clapesattle. 712p $3.75 Univ. of Minnesota press, Minneapolis '41

The Mayos, pioneers in medicine. A. Regli. 248p bibliog(p233-40) $2.50 Julian Messner, New York '42

MAYO, William James, 1861-1939

Doctors Mayo. H. Clapesattle. 712p $3.75 Univ. of Minnesota press, Minneapolis '41

The Mayos, pioneers in medicine. A. Regli. 248p bibliog(p233-40) $2.50 Julian Messner, New York '42

MAYO, William Worrall, b. 1819

Doctors Mayo. H. Clapesattle. 712p $3.75 Univ. of Minnesota press, Minneapolis '41

MAYO clinic, Rochester, Minnesota

Mayo clinic. L. Wilder. 4th rev ed 86p $1.50 Harcourt '41

MEAD corporation

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1601-2 Ap 20 '42

MEAD corporation—*Continued*
Proposed acquisition of Escanaba Paper. Comm & Fin Chr 156:697 Ag 24 '42

MEAD Johnson and company
Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 15 '41

MEALEY, Carroll E. 1893-
Key man in administering New York safety-responsibility act. East Underw 42:30 N 28 '41

MEANS test. See Insurance, Social—Great Britain

MEANY, George, 1894-
Meany deal; Lewis's bid for unity seen as scheme to scuttle Murray and Hillman. por(cover) Business Week p15-16 Ja 24 '42

MEASLES
Measles. (Public health rep supp 148) 3p U.S. Public health service, Washington; pa 5c Supt. of doc. '41

See also
Rubella

MEASUREMENT
Angles in space; their measurement on a direction diagram. H. H. Stevens, jr. Product Eng 13:392-4, 443-5 Jl-Ag '42
Cross-sectioning clogged drainage ditches. J. F. Mollenkopf. diag Eng N 128:875-6 My 21 '42
Measuring soil-sample volume by improved methods. A. S. Carey and H. T. Harstad. diag Eng N 128:419-20 Mr 12 '42
National standards of measurement. L. J. Briggs. bibliog Rs Mod Phys 11:111-20 Ap '39; Same. Engineering 153:304-5, 334-5 Ap 17-24 '42

Units of measurements used by the production engineer. G. M. Stearns. Oil & Gas J 40:51 Mr 12 '42

See also
Area measurement
Calorimeters and calorimetry
Color measurement
Colorimeters and colorimetry
Electric measurements
Gages
Gas flow
Gas measurement
Gearing—Measurement
Magnetic measurements
Measuring instruments
Meters
Micrometers
Photometry
Pressure measurement
Printing, Practical—Measurements
Pyrometers and pyrometry
Radio measurements
Sound—Measurement
Statistical methods
Stream measurement
Surveying
Tanks—Measurement
Temperature—Measurement
Thermometers and thermometry
Vibration—Measurement
Viscosity—Measurement
Volume
Water flow
Water meters
Weights and measures

MEASURING instruments
Connecting-rod bearing clearance indicator. diags Engineering 153:6 Ja 2 '42

Precision measurements; E. H. Jones (machine tools) ltd. standards room. il Automobile Eng 32:179-81 My '42

See also
Dilatometers
Electric instruments
Flow meters
Gages
Interferometers
Micrometers
Oscillographs
Physical instruments
Pressure gages
Slide rule
Surveying instruments
Timing devices

Manufacture

Precise weather needed for precision work; underground laboratory for manufacture of measuring instruments. W. S. Bodinus. il plan Heating-Piping 14:544-5 S '42

MEASURING instruments, Electric
Electric gages. H. P. Kuehni. il diags Gen Elec R 45:533-6 S '42

Quick methods for measuring thickness; electric gages. E. S. Gallagher. il diags Am Mach 86:1155-7 O 15 '42

MEASURING instruments, Optical
Center scope tool-positioning device. il Engineering 152:485 D 19 '41
Dynamic balancing of propellers; Escher Wyss balancing device. E. Kronauer. il diags Aviation 41:119, 121+ My '42
Hoover Lumigage. il(p412) Automobile Eng 32:413 O '42
Measuring microscope for use in creep-rate analysis. il diag Machine Design 14:60 Jl '42
O.M.T. omtimeter. il Engineering 153:387 My 15 '42
Optics in engineering. M. H. Taylor. Automobile Eng 32:19-22 Ja '42
Optigage optical comparator. il diag Engineering 153:486 Je 19 '42
Some developments in electrical and optical instruments. il Engineer 173:124-5 F 6 '42
Wickman form grinder with pantograph-controlled optical checking instrument. il Mach 48:236-7 Jl '42; Am Mach 86:743 Jl 9 '42

See also
Interferometers
Optical flats
Stroboscopic instruments

MEAT
All-America package competition; award to the Cudahy packing co.; meat loaves and cooked hams in transparent rubber hydrochloride casings. il Mod Packaging 15:144-5+ Ap '42
Animal production in the post-war world. J. Hammond. Chem & Ind 61:283-4 Je 27 '42
Army needs 13 new foods. J. H. White. il Food Ind 14:38-9 Mr '42; Same. Mod Packaging 15:48-9 Mr '42
Food group discusses meat as food. Chem & Ind 61:224-5 My 16 '42
Hogs or beer? which is the more economical source of food? Sci Am 167:170+ O '42
Meat scramble. il Business Week p17-18 O 24 '42
Nation's food; meat as food; factors influencing the composition and properties of meat. J. Hammond. Chem & Ind 61:334-5 Ag 1 '42
Nation's food; meat as food; the chemical composition of mammalian and avian meat. E. C. Bate-Smith. bibliog Chem & Ind 61:373-7 S 5 '42
Nation's food; meat as food; the fat, protein, and water contents of meat. E. H. Callow. Chem & Ind 61:381-2 S 12 '42
Nation's food; meat as food; the mineral and vitamin content of meat. A. L. Bacharach. Chem & Ind 61:404-6 O 3 '42
Science sells meat; Institute's campaign to tell of vitamins et al. succeeds. Business Week p63-4 D 13 '41
WPB suggests meat saving plan for eating places. Comm & Fin Chr 156:1551 O 29 '42

See also
Bacon
Beef
Packing houses
Sausages

Analysis

Nation's food; meat as food; the chemical composition of mammalian and avian meat. E. C. Bate-Smith. bibliog Chem & Ind 61:373-7 S 5 '42
Nation's food; meat as food; the fat, protein, and water contents of meat. E. H. Callow. Chem & Ind 61:381-2 S 12 '42

Preservation

Stabilization of fats. H. S. Mitchell and H. C. Black. Oil Paint & Drug Rep 142:65 S 21 '42

Prices

Armour & co. and other packers will refund overcharges. Comm & Fin Chr 156:510 Ag 10 '42
OPA warns meat industry against price evasion. Comm & Fin Chr 155:2119 Je 4 '42
Three-point program to relieve meat shortage. Comm & Fin Chr 156:367 Jl 30 '42

Rationing

Authorized to ration meat. Comm & Fin Chr 156:1090 S 24 '42

MEAT—Rationing—*Continued*

Civilian meat supply to be 2½ lbs. weekly. Comm & Fin Chr 156:1192 O 1 '42

Meat rationing and quota sales proposed. Comm & Fin Chr 156:894 S 10 '42

OPA limits meat deliveries for civilian use. Comm & Fin Chr 156:1357 O 15 '42

Rationing economics. Business Week p14 S 5 '42

Shrinkage

Meat shrinkage not affected by fuel; gas and electric cooking compared. L. Ayers. Am Gas Assn Mo 24:214 Je '42

Research reveals how meat shrinks. W. Heller. Food Ind 14:50-3 F '42

Storage

Cooperative cold storage in Mississippi. H. H. Slawson. Refrig Eng 43:213-14 Ap '42

MEAT, Canned. See Canned meat

MEAT, Dried

Dehydrated meat. Business Week p69-70 Jl 11 '42

Dehydrated meat and eggs; abstract. Bate-Smith. Chem & Ind 61:342 Ag 8 '42

Dehydration of meat; abstract. H. R. Kraybill. Can Chem & Process Ind 26:587 O '42

Dehydration of meat in U.S. For Comm W 8:23 Jl 25 '42

Method developed for dehydrating meat. Food Ind 14:46 Jl '42

Push dried pork. Business Week p58-60 S 5 '42

Swift develops meat dehydrater. Food Ind 14:72 S '42

Swift puts meat dehydration on a production basis. E. S. Stateler. il diags Food Ind 14: 47-9 O '42

See also

Pork, Dried

MEAT, Frozen

Argentina improves method of freezing beef. For Comm W 8:27 Ag 1 '42

MEAT, Smoked

See also

Fish, Smoked

MEAT cutting

Ready-cut meat. il Business Week p48+ Mr 28 '42

Redesigned meat; developed by industry for army. il (p38) Business Week p39-40 N 15 '41

MEAT industry and trade

See also

Beef
Meat, Dried
Meat, Frozen
Meat cutting
Packing industry
Poultry

Advertising

Identified hamburger. il Ptr Ink 197:67-8 N 21 '41

Lights! camera! action! sell better health; motion picture, paid for by Swift & co, sponsored by government. il Ptr Ink 199:16-17 Ap 24 '42

Meat industry, not scared by rationing, will invest $2 million in advertising. P. H. Erbes, jr. il Ptr Ink 201:17-19 O 16 '42

Science sells meat; Institute's campaign to tell of vitamins et al. succeeds. Business Week p63-4 D 13 '41

What sound cooperative advertising has done for America's meat industry. L. B. Colby. il Sales Management 50:18-21 Ja 1 '42

Regulation

Domestic meat sales limited. Food Ind 14: 73 N '42

Holds meat allocation shortage preventive. Comm & Fin Chr 156:723 Ag 27 '42

Oil, meat rations; distribution control set on meat. Business Week p14 S 5 '42

Trouble in meat; showdown with Wickard on control near. Business Week p24+ Ag 22 '42

Bolivia

Fresh beef delivered by plane in Bolivia. For Comm W 7:34 Je 6 '42

Great Britain

Meat prices and ration. Economist 142:479 Ap 4 '42

Illinois

Retailer and consumer reaction to graded and branded beef. R. C. Ashby and others. il diags maps Ill U (Urbana) Agric Exp Sta Bul 479:339-91 '41

New Zealand

Dehydrated-meat production. For Comm W 8:20 S 19 '42

United States

Meat on the table; slaughter sure to hit a new high. Business Week p60+ Mr 14 '42

Meat shortage. Business Week p28-31 Ag 1 '42

Pigs to the rescue; meat packers expect big hog runs this fall. Business Week p20+ Ag 29 '42

Push dried pork. Business Week p58-60 S 5 '42

Three-point program to relieve meat shortage. Comm & Fin Chr 156:367 Jl 30 '42

War time demand for meat causes shortage. Comm & Fin Chr 156:464 Ag 6 '42

Why meat may have to be rationed. Barron's 22:6 Ag 24 '42

Uruguay

Cattle slaughterings in Uruguay, 1937 to 1941 and exports of cattle and cattle products, November 1940 to October 1941. For Comm W 7:18 Ap 11 '42

MEAT loaf

All-America package competition; award to Kingan & co.; Tasti-square meat package. il Mod Packaging 15:146-7 Ap '42

MECHANICAL analogies. See Electric circuits—Mechanical analogies; Electric waves—Mechanical analogies

MECHANICAL draft

Better draft layouts improve operation. J. Cassie. diags Elec W 118:759 S 5 '42

Contracts commanding priorities; installation details, forced draft duct, insulation and covering of smokestack breechings; Kings Park state hospital. il diags Sheet Metal Worker 32:28-30 D '41

Draft-fan power supply circuits simplified. J. S. Brown. diags Elec W 117:1666-7 My 16 '42

Draft system improvements cut drying time 6 hours, burning time, 1½ days; Lansdale brick company. il Brick & Clay Rec 101: 26-7 Ag '42

Fly ash erosion in steel mill boilers. J. H. Reid. il diags Steel 111:68, 70+ Ag 24 '42

How friction and forced draft affect stratification in kilns and dryers. E. Ledoux. diags Chem & Met Eng 49:92-5 Ja '42

How to determine forced draft air requirements. E. M. Sims. chart(p108) Power Pl Eng 46:94 F '42; Discussion (Forced draft requirements get Joe steamed up). 46:86-8 Ag; 104, 106+ N '42

Mechanical draught; fundamental considerations regarding fans. V. Smith. Elec R (Lond) 130:433-4 Ap 3 '42

More capacity with little additional equipment; improving plant outputs by eliminating sources of combustion difficulties. J. Cassie. diags Elec W 117:1164-7 Ap 4 '42

More power from existing equipment; draft systems. diags Power 86:75-8 F '42

New fans, more steam, no cinder; relocation of breechings to accommodate new fans and cyclones. J. E. Watson. il diag Power 86: 262 Ap '42

Refrigeration requirements affect design of water cooling equipment; mechanical draft towers. L. T. Mart. il diags Refrig Eng 43:17-21 Ja '42

See also

Blowers
Fans, Mechanical

MECHANICAL drawing

Airplane drawing. J. W. Giachino and H. A. Sonsmith. 64p $1.50 Goodheart-Willcox, 2009 S. Michigan av, Chicago '41

MECHANICAL drawing—*Continued*

Applied drawing and design. E. H. Mattingly and E. Scrogin. rev ed 232p bibliog(p229-30) $1.28 McCormick-Mathers pub. co, Wichita, Kan. '41

Engineering drawing and mechanism. H. J. Brodie. 241p $2.25 Harper '42

Technical drawing. F. E. Giesecke, A. Mitchell and H. C. Spencer. 2d ed 687p bibliog(p651-6) $3 Macmillan '40

See also

Drafting room practice

Engineering drawing

Machinery—Design

MECHANICAL engineering

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. diags Engineering 153:478-80, 498-500, 519 Je 12-26 '42; Excerpts. Engineer 173: 477-80 Je 5 '42

Draftsman's mathematical manual. E. V. Oberg, ed. 2d ed 265p $2 Industrial press, New York '41

Engineering mechanics; a textbook for engineering students. B. B. Low. 252p $4.50 Longmans '42

Engineering tools and processes; a study of production technique. H. C. Hesse. 627p bibliog(p559-77) $4.50 Van Nostrand '41

How it works; an encyclopedia of mechanical knowledge. E. Hawks. 512p $1.98 Garden City pub. co, Garden City, N.Y. '41

Models and analogues for solving design problems. E. N. Kemler. il diags Product Eng 13:660-1 N '42

Position of the locomotive in mechanical engineering. W. A. Stanier. diag Inst Mech Eng J & Proc 146:Proc 50-61, pl 1-4 D '41; Same abr. Engineering 152:357-60, 376-80 O 31-N 7 '41; Same. Engineer 172:290-3, 309-12, 328-9 O 31-N 14 '41; Same cond. Ry Age 112:415-18, 445-8+ F 21-28 '42

Progress in railway mechanical engineering, 1940-1941. il Mech Eng 63:879-92 D '41

Some aspects of industrial lubrication. W. J. Hund and others. il diags Mech Eng 64: 525-30 Jl '42

Some refinements in methods of graphical integration. L. H. Donnell. il diag Franklin Inst J 233:331-48 Ap '42

See also

Aeronautic engineering

Aeronautics

Automobiles

Balancing of machinery

Boilers

Chemical engineering

Electric engineering

Fuel

Hydraulic machinery

Locomotives

Lubrication and lubricants

Machine shop practice

Machine tools

Machinery

Machinery—Design

Marine engineering

Mechanical handling

Mechanical models

Motor trucks

Packing

Power (mechanics)

Power transmission

Pumping

Standardization

Steam engines

Tolerance

Trucks

also American society of mechanical engineers

Bibliography

Additions to the library. Inst Mech Eng J & Proc 146:9-12 Ja '42 [cont monthly]

Brief subject and author index of papers in the Proceedings, 1847-1941 and in the Journal, March 1939-March 1942. 182p Institution of mechanical engineers, Storey's Gate, St. James's park, London, S.W. 1 '42

Reviews of books and notes on books received in the Engineering societies library. Published in monthly numbers of Mechanical engineering

Handbooks

Audels millwrights & mechanics guide for plant maintainers, builders, riggers, erectors, operators, construction men, and engineers. E. P. Anderson. 1167p $4 Theo. Audel & co, New York '40

Handbook of mechanical design. G. F. Nordenholt, J. Kerr and J. Sasso. 277p $4 McGraw-Hill '42

Machinery's handbook; for machine shop and drafting-room. E. Oberg and F. D. Jones. 11th ed 1815p $6 Industrial press, New York '42

History

Development of mechanisms in ancient China. H. Chatley. Engineering 153:175-6 F 27 '42

Study and teaching

Suggested design for mechanical engineering curricula. F. L. Wilkinson, jr. Mech Eng 63:581-4+ Ag '41; Discussion. 64:141-5 F '42

Teaching dynamics. S. Timoshenko. J Eng Educ 32:463-6 Ja '42

Thermodynamics for graduate students of mechanical engineering. J. H. Keenan. J Eng Educ 32:353-60 D '41

What is wrong with kinematics and mechanisms? A. E. R. de Jonge. bibliog Mech Eng 64:273-8 Ap '42; Discussion. 64:744-51 O '42

See also Machine shop practice—Study and teaching; Steam engineering—Study and teaching

Tables, calculations, etc.

Critical speeds; how to calculate equivalent speeds and inertias. C. R. Freberg and E. N. Kemler. diags Product Eng 13:439-42 Ag '42

Introduction to works practice; a practical guide to procedure in engineering production, how to read blue-prints, micrometers, etc., and how to make workshop calculations. E. Molloy, ed. 104p $2 Chemical pub. co. '41

Investigations on shaft fillets. P. Grodzinski. diags Engineering 152:321-4 O 24 '41

See also

Vibration—Measurement

MECHANICAL engineers

Mechanical engineer in war. E. McFarland. Mech Eng 64:337-9 My '42

Mechanical engineering section of the central register in wartime. J. Tams. Engineer 173:325-6 Ap 17 '42; Same. Engineering 153:375-6 My 8 '42; Same. Inst Mech Eng J & Proc 147:Proc 75-8 My '42

Mobilizing the graduate into war work. C. Carmichael. Machine Design 14:52-4 Ap '42

See also American society of mechanical engineers

MECHANICAL equipment of buildings

Compressed air provides twenty-one flexible services for office building; piped to all parts of the Metropolitan Life building; actuates radiator valves, powers dampers, blows soot, etc. il Power 86:180-2 Mr '42

Training for maintenance. R. C. Oberdahn. il diags plan Factory Management 100:81-8 Mr '42

See also

Air conditioning

Air conditioning equipment

Cooling

Electric wiring, Interior

Elevators

Heating

Hot water supply

Lighting

Pipe fitting

Plumbing

Power plants

Steam fitting

Ventilation

MECHANICAL fans. See Fans, Mechanical

MECHANICAL handling

Automatic machinery lowers costs in newly patented batch house; weighing, conveying, mixing, discharging and delivery to furnace. diag Cer Ind 38:80+ F '42

Automatic turning device for handling long tubes. W. M. Halliday. diags Mech Handling 29:163-4 S '42

Better handling broke a bottleneck; parts ride portable elevators right into the box that carries them to the next operation; King-Seeley corporation, Ann Arbor. W. J. Pearse. il Factory Management 100:84-5 Je '42

Better handling facilities reduce processing time; bonderizing steel enclosures for switchgear and control equipment; Westinghouse electric & mfg. co. il Steel 109:85-6 D 1 '41

MECHANICAL handling—*Continued*

Brass foundry material handling. J. M. Monroe. il Iron Age 149:52 Ap 16 '42

Builds machine tools faster with modern mechanical materials handling aids; Warner & Swasey co. C. L. Peterson. il Steel 110:73-4+ F 9 '42

Casting racks speed production; Lynn river works of General electric co. il Iron Age 149:45 F 19 '42

Crane-conveyor team keeps castings on the move. C. B. Gordy. il Factory Management 100:102-4 S '42

Depreciation and maintenance of mechanical handling plant. S. H. Withey. Mech Handling 29:90-1, 109-10, 132-4, 153-4, 171-2 My-S '42

Drawbridge platform saves handling costs. E. H. Trick. il Factory Management 100:94 Je '42

Factories laid out to produce larger lots. il Am Mach 85:1190-2 N 26 '41

Flexible production with machines on wheels; St Joseph laboratories, Memphis, Tenn. R. A. Latimer. il Mod Packaging 15:91-3+ My '42

Flying Fortress; materials handling equipment and layout. il Steel 110:73, 76+ Ja 26 '42

Forty years progress in material handling. F. F. Dority. Pulp & Pa of Can 43:616-17 Jl '42

Furnaces for production heat-treating; material handling. R. Le Grand. il diags Am Mach 85:1027-30, 1084-6, 1131-3, 1256-9 O 15-N 12, D 10 '41

Great Northern car-shop devices. P. P. Barthelemy. il Ry Mech Eng 116:306-11 Jl '42

Handling castings through the cleaning room. J. M. Munroe. il Foundry 70:69+ Jl '42; Same. Steel 111:95+ Jl 13 '42

Handling equipment for speeding aircraft production. L. V. Spencer. il Aero Digest 41:197-8+ Ag '42

Handling materials. il plan Elec R (Lond) 130:423-7, 455-9, 492-5 Ap 3-17 '42

Handling materials in iron and steel foundry; Sullivan machinery co. F. A. Westbrook. il plan Steel 110:80+ Ja 19 '42

Improving the handling job; from the experiences of nine companies. il Factory Management 100:93-6 Ag '42

Large deliveries from stock; equipment for stockpiling and handling rock products. il plan Rock Prod 45:60-3+ Ja '42

Lift-truck-skid materials handling system; Barrett-Cravens co. il Steel 110:94+ Je 8 '42

Material handling at Buick. H. C. Chase. il Aviation 41:148-9, 151, 309 Jl '42

Material handling at shell loading plants; Auto-Railer used both on roadways and rails. W. F. Sherman. il Iron Age 149:62-6 Mr 26 '42

Materials handling emphasized in automatic machining line; General electric co. frame for watt-hour meter. il Steel 109:64, 67 N 17 '41

Materials handling equipment. il Automotive & Aviation Ind 87:96+ O 1 '42

Materials handling; illustrations with text. Factory Management 100:89-96 Jl '42

Mechanical handling aids plant expansion; Florence stove co. H. H. Slawson. il diag Steel 110:58, 60, 69 Ja 12 '42

Mechanical handling devices speed cleaning of shell and bombs. il Steel 110:88+ Je 1 '42

Mechanical handling in the foundry. D. C. Paterson. il diags plan Mech Handling 29:123-9 Jl '42

Monorail handling system saves time and money in die shop; I. J. Frindt co. il plan Steel 110:90+ My 25 '42

New equipment; material handling. il Iron Age 148:68-72 D 4 '41; 149:79-83 My 7 '42

Planned materials handling improves foundry operation; Golden foundry co. S. F. Swain. il Steel 109:80+ D 15 '41

Pneumatic transfer expedites plating operations. il Comp Air M 47:6872 O '42

Review of power and mechanical equipment; mechanical transmission and materials handling. il diags Power 85:951-4 Mid-D '41

Smoothing the scrap cycle; handling system, General electric company. J. L. Lare. il Am Mach 86:881 Ag 20 '42

South District filtration project, Chicago; chemical handling facilities. diags Eng N 128:1014-16 Je 18 '42

Southern tobacco plant adopts mechanical transport. il Manuf Rec 110:38+ D '41

Speeding deliveries by use of unit packages and mechanized handling equipment. C. M. Godfrey. il Steel 111:94+ Ag 10; 88, 90 Ag 17 '42

Spring making facilitated by mechanized handling. C. W. Bartlett. il diags plan Steel 110:85, 88+ F 16; 66, 68+ F 23 '42

Steel plant cars; their design, application and features. G. P. Astrom. il Steel 109:82, 85, 88 D 8 '41

Steelworks plant; the influence of mechanical handling. il Elec R (Lond) 131:3-6 Jl 3 '42

Swivel top table handles heavy dies. J. E. Hyler. diag Am Mach 86:164 Mr 5 '42

Technical progress paces victory march. Steel 110:295-6+ Ja 5 '42

Trucks and pallets bring handling costs to earth; General electric co., Bridgeport. C. H. Barker, jr. il Factory Management 99:60-2 D '41

29th buyers reference number; plant service equipment; parts and materials. il Am Mach 86:313-17 Ja 22 '42

Upender for heavy objects. diags Comp Air M 47:6671 F '42

Well planned materials handling in manufacture of steam steering engines; Webster-Brinkley co. il Steel 110:83-4 Mr 9 '42

See also

Ash handling
Assembling methods
Cableways
Cargo handling
Coal handling
Coal loading machines
Coke handling
Conveying machinery
Cranes, derricks, etc.
Electric trucks, Industrial
Freight handling
Gasoline handling
Grain elevators
Gravel handling
Hoisting machinery
Loading and unloading
Lumber handling
Mine haulage
Mine hoisting
Motor trucks, Industrial
Oil handling
Ore handling
Paper handling
Sand handling
Sheet metal handling
Steel handling
Trucks

Bibliography

Abstracts. Published in monthly numbers of Mechanical handling and conveying

Patents

Abstracts of patent specifications. Published in monthly numbers of Mechanical handling and conveying

Handling of minerals, etc. diags Mech Handling 29:13-15 Ja '42

Safety measures

Mechanical equipment; handling materials. il Nat Safety N 45:66-8+ Mr '42

MECHANICAL laboratories. See Engineering laboratories

MECHANICAL models

Hobbing machine his hobby; W. W. Dickover builds miniature. il Am Mach 86:372 Ap 16 '42

Model tests and laws for predicting performance. H. O. Fuchs. il diag Product Eng 13:556-9 O '42

Models and analogues for solving design problems. E. N. Kemler. il diags Product Eng 13:660-1 N '42

Rigby's Book of models; 15 scale models; W. Rigby. bk 1 29p pa $1 David McKay co, 604 S. Washington sq, Philadelphia '41

Visual experimentation with centrifugal pumps. H. L. Cooper. il diags Engineer 172:278-81 O 24 '41; Discussion. 172:395-6 D 5 '41

See also

Airplanes—Models

MECHANICAL movements

Cam drive with variable-stroke mechanism. P. Grodzinski. diag Mach 48:144 D '41

MECHANICAL movements—*Continued*

Eccentric has variable throw; patent assigned to United shoe machinery corp. diag Machine Design 14:144 Ag '42

Ingenious mechanical movements. Published in monthly numbers of Machinery

Latching system provides method of friction-load reduction in rotary bottle-filling machine. il Machine Design 14:61 Je '42

Lever mechanism for operating a locking pin and clamping bolts in one movement. F. Server. diags Mach 48:132 Je '42

Locking and releasing mechanism for traveling carriage; machine used for stitching wire through fabric. L. Kasper. diags Mach 48:127-8 F '42

Mechanism for adjusting throw or radial position of blocks on rotating arm. diags Mach 48:131 Ag '42

Mechanism for inserting and heading tubular rivets; Chobert magazine riveting machine. diags Mach 48:131-2 Je '42

Mechanism for producing variable reciprocating movement; wire weaving machine. L. Kasper. diags Mach 48:125-6 Ja '42

Power thrust linkages and their applications. diags Product Eng 13:326-7 Je '42

Variable-throw compound eccentric. W. M. Halliday. diags Mech Handling 29:68-9 Ap '42

See also

Cams
Gearing
Links and link-motion
Pulleys

MECHANICS

Applied science. C. W. Banks. 212p $1.75 Wiley '42

Contact of colliding surfaces. F. P. Bowden and D. Tabor. Engineer 172:380-2 N 28 '41

Determination of the static and dynamic constants by means of response curves. R. K. Bernhard. il J Ap Phys 12:866-74 D '41

Engineering mechanics. F. L. Brown. 2d ed 503p $4 Wiley '42

Mechanical impedance of damped vibrating systems. R. G. Manley. diags Roy Aeronautical Soc J 45:342-8 N '41

Principles of mechanics. J. L. Synge and B. A. Griffith. 514p $4.50 McGraw-Hill '42

Standards for letter symbols; mechanics and hydraulics. Civil Eng 12:58-61 Ja '42

See also

Acceleration
Aerodynamics
Aeronautics
Deformations (mechanics)
Dynamics
Elasticity
Engineering
Falling bodies
Fluids
Friction
Gases
Hydraulics
Hydrodynamics
Hydromechanics
Liquids
Load (mechanics)
Machinery
Mechanical movements
Power (mechanics)
Steam engines
Strains and stresses
Strength of materials
Structures, Theory of
Thermodynamics
Torsion
Vibration
Viscosity
Wave mechanics

Electric analogy

Models and analogues for solving design problems. E. N. Kemler. il diags Product Eng 13:660-1 N '42

Operational theory of longitudinal impact. L. A. Pipes. diags J Ap Phys 13:503-11 Ag '42

Study and teaching

Advanced instruction and research in mechanics at Brown university. Science 95:217 F 27 '42

Arms maintenance program offered army, navy by GM. il Steel 110:32-3 Mr 23 '42

Minimum acceptable achievement in mechanics. G. N. Cox. J Eng Educ 32:341-5 D '41

Preliminary results from experiments in teaching mechanics. J. O. Draffin and F. B. Seely. J Eng Educ 32:573-82 Mr '42

Terminology

New American standard letter symbols for mechanics. R. E. Peterson. Ind Stand 13:195-6 Jl '42

MECHANICS (persons)

Training

Training craftsmen for the engineering industry. F. H. Reid. Engineering 153:75-6 Ja 23 '42

Training for maintenance. R. C. Oberdahn. il diags plan Factory Management 100:81-8 Mr '42

MECHANICS, Applied

See also

Disks, Rotating
Mechanical engineering

MECHANICS, Celestial

Principles of stellar dynamics. S. Chandrasekhar. 251p $5 Univ. of Chicago press '42

MECHANICS, Statistical. See Statistical mechanics

MECHANICS educational society of America

New union? meeting called by Mechanics educational society of America viewed as effort to unite independents. Business Week p86 Jl 25 '42

MECHANICS' liens

Court interprets bond law; rules Pitcher act in New York protects materialmen. Credit & Fin Management 44:22-3 S '42

MEDALS

Award of medals of the Royal Society. Science 94:482 N 21 '41

Bessemer medal presented to E. G. Grace by British steel institute. Steel 110:40 My 25 '42

Daniel Guggenheim medal for 1941 awarded to Juan T. Trippe. J Aeronautical Sci 9:142, 144 F '42

David Arnott awarded Miller memorial medal. Marine Eng 46:156 N '41; Power 85:997a-997c Mid-D '41

Dr F. E. Giesecke gets Paul Anderson medal. Power 86:295c+ Ap '42

Employees of three gas companies awarded McCarter medals. Am Gas Assn Mo 23:439 D '41

Franklin Institute medal day meeting. Franklin Inst J 234:167-90 Ag '42

Medal day at the Franklin institute. Science 95:402-3 Ap 17 '42

Medal to General Doolittle. Aeronautical Eng R 1:84-5 Je '42

Robert H. Aborn; recipient of the Lincoln gold medal. Power 85:997c Mid-D '41

TAPPI medal award to Robert B. Wolf; presentation by R. A. Hayward, reply by R. B. Wolf. Paper Tr J 114:104-6 F 19 '42

TAPPI medal to Robert B. Wolf. Paper Ind 23:800 N '41

See also

Chandler medal
Chemical industry medal
Edison electric institute medal
Edison medal
Fritz, John, medal
Hyatt medal
Penrose medal
Perkin medal

MEDIATION board, National. See National mediation board

MEDICAL advertising

This advertising is social, as well as selling, force; Mennen antiseptic oil. J. H. Miller. il Ptr Ink 198:15, 70-1 Ja 9 '42

MEDICAL botany. See Botany, Medical

MEDICAL buildings

First aid decontamination stations. il plans Arch Forum 76:61-2 Ja '42

See also

Clinics
Physicians' offices

MEDICAL care. See Medical service

MEDICAL centers

See also

Clinics
Health centers

MEDICAL colleges

Accelerated program of medical schools. Science 95:497-8 My 15 '42

Research activity and the quality of teaching in medical schools. A. E. Casey. Science 96:110-11 Jl 31 '42

MEDICAL colleges—*Continued*
State board statistics as a basis for comparison of medical schools. T. E. Boyd. Science 96:380 O 23 '42
Summer session of New York medical schools. Science 95:165 F 13 '42
See also New York university—College of medicine

MEDICAL education
Instruction in industrial medicine for medical students. T. L. Hazlett. Ind Med 11:115-16 Mr '42
Psychiatry in medical education. F. G. Ebaugh and C. A. Rymer. 619p $3.50 Commonwealth fund, New York '42
Responsibilities of medicine in wartime. F. W. Rankin. Science 95:611-12 Je 19 '42
See also
Medical colleges
Ophthalmology—Study and teaching

MEDICAL indemnity corporations
Blames lag in medical care plans on doctors. L. H. Pink. Nat Underw 46:17 Je 25 '42

MEDICAL instruments and apparatus
See also
Cardiograph
Kymograph
Surgical instruments and apparatus

MEDICAL jurisprudence
Status of medicolegal testimony. R. T. Johnstone. Ind Med 11:104-6 Mr '42
Testimony before commission and court. W. A. Bishop. bibliog J Ind Hygiene 24:159-62 Je '42

Dictionaries

Simplified medical dictionary for lawyers. B. S. Maloy. 451p $8 Callaghan '42

MEDICAL libraries
Union index to medical lore; Boston medical catalog and other indexing of Work projects administration. E. Minderman. Special Lib 33:162-3+ My-Je '42

MEDICAL literature
Union index to medical lore; Boston medical catalog and other indexing of Work projects administration. E. Minderman. Special Lib 33:162-3+ My-Je '42
See also
Current list of medical literature

MEDICAL museums
Medical museum of the Rochester academy of medicine. Science 95:14 Ja 2 '42

MEDICAL research
Abbott laboratories' medical research. Barron's 22:19 S 21 '42
Advancing front of medicine. G. W. Gray. 425p bibliog(p399-402) $3 McGraw-Hill '41
Analysis of human tumors diagnosed at the National institute of health, 1920-39. R. D. Lillie. bibliog Pub Health Rep 56:2284-307 N 28 '41
Endowment of an institute of social medicine at Oxford. Science 96:128-9, 159 Ag 7-14 '42
Fellowships in the medical sciences of the National research council. Science 94:580 D 19 '41
Furtherance of medical research. A. Gregg. 129p $2 Yale univ. press '41
Grants-in-aid of the committee on scientific research of the American medical association. Science 95:218 F 27 '42
Grants made by the Banting research foundation. V. E. Henderson. Science 95:329-30 Mr 27 '42
High-vacuum still in medicine. K. C. D. Hickman. bibliog il diags Ind & Eng Chem Anal ed 14:250-4 Mr 15 '42
Investigations at Mellon institute 1941-42; medical research. Chem & Eng N 20:455-6 Ap 10 '42
Physics scores an assist; particle detector, with cyclotron, gives medicine a powerful tool. J. V. Sheppard. il Sci Am 165:315-17 D '41
Problems of aging and of vascular diseases. H. S. Simms. Science 95:183-6 F 20 '42
Transmission of rubella to Macacus mulatta monkeys. K. Habel. bibliog Pub Health Rep 57:1126-39 Jl 31 '42
See also
Banting research foundation
Cold (disease)
also American federation for clinical research; National research council

MEDICAL service
Basic principles of medical economics. 101p pa 20c Am. medical assn, Bur. of medical economics, Chicago '42
Directory of non-profit hospital service plans approved by the American hospital association. 157p pa $1 Hospital service plan commission, Am. hospital assn, Chicago '41
Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57: 1195-1209, 1235-75 Ag 14-21 '42
Future of the hospitals; partnerships between local authorities and voluntary hospitals. Economist 141:470-1 O 18 '41
Importance of hospital morbidity data for the community. M. Fraenkel. Am Statis Assn J 37:213-19 Je '42
Location and movement of physicians, 1923 and 1938; general observations. J. W. Mountin, E. H. Pennell and V. Nicolay. bibliog map Pub Health Rep 57:1363-75 S 11 '42
Medical benefit in New Zealand. Int Labour R 45:207-8 F '42
Medical care; economic and social aspects of health service. $3 Published quarterly by Williams & Wilkins
Medical needs and care of the aged clients known to the Jewish social service bureau. B. L. Grossman. 18p Jewish social service bur, 15 Fernando st, Pittsburgh '42
Medical reconstruction; making services available to every individual. Economist 142:888-9 Je 27 '42
Social security in the United States, 1941. 187p $2 Am. assn. for social security, 22 E. 17th st, New York '41
When doctors are rationed. D. Anderson and M. Baylous. 255p $2 Coward-McCann, 2 W. 45th st, New York '42
See also
Dental service
Hospitals—Statistics
Insurance, Health
Physical examinations
Workmen's compensation—Medical care
World war, 1939—Medical and sanitary affairs

Group plan

A.M.A. trust guilt confirmed on appeal. Oil Paint & Drug Rep 141:3+ Je 22 '42
Anti-trust charges upheld against A.M.A. Comm & Fin Chr 156:111 Jl 9 '42
Contrast offered in social programs; Rhode Island Senate passes state health bill; New York health service offers socialized medicine. East Underw 43:34 My 1 '42
Intelligent consumer's guide to hospital and medical plans. H. Maslow. 32p bibliog(p31-2) pa 15c League for industrial democracy, New York '42
Organization and administration of group medical practice. D. A. Clark and K. G. Clark. 109p pa 25c Good will fund, 31 Milk st, Boston '41
Prepayment plans for medical care. F. Goldmann. 60p pa 25c Medical administration service, New York '41

Accounting

Business procedures. P. R. Taylor. 109p pa 25c Good will fund, 31 Milk st, Boston '41

MEDICAL service, Cost of
See also
Insurance, Health

MEDICAL service, Industrial
Bandage is not enough; nurse in industry; abstract. T. O. Armstrong. Safety Eng 82: 35 N '41
Calling the doctor; industry's output depends increasingly on plant physicians. Business Week p60+ My 23 '42

MEDICAL service, Industrial—*Continued*

Chrysler girds for war. J. J. Prendergast. il Nat Safety N 45:10-11+ Ap '42

Company doctor; his opportunity. R. M. Shea. Ind Med 10:546-7 D '41

Cross country; safe transmission line construction. H. Hughes. il Nat Safety N 45:22-3+ Je '42

Diagnosis of source of hematuria associated with industrial injuries. J. J. Crane. il Ind Med 11:476-9 O '42

Dispensary door always open; Reliance electric & engineering company. S. B. Taylor. il Factory Management 100:76-8 Ja '42

Everybody wins here; Visking corporation, health program. A. G. Hewitt. il Factory Management 100:74-6 Ja '42; Abstract. Management R 31:239-40 Jl '42

Field of industrial ophthalmology; report by committee of American medical association. A. C. Snell, A. Culler and H. S. Kuhn. Advanced Management 7:91-4 Ap-Je '42

First aid for the industrially injured; by whom, with what, and how much? C. Leggo. Ind Med 11:481-2 O '42

Foot wear and tear. W. S. Greer. il Nat Safety N 45:27, 62 Ja '42

General Motors medical conference, Pontiac, Michigan, April 24-25. Ind Med 11:245-85 Je '42

Guarding employee health; Pepperell manufacturing company's new health clinic. il Am Business 12:18-19 My '42

Handbook for physicians on industrial health and medicine in war industries to be prepared by Division of industrial hygiene, National institute of health. Science 96:34 Jl 10 '42

Industrial health as related to licensure. C. O. Sappington. Ind Med 11:292-4 Je '42

Industrial health service. il Nat Safety N 45:150+ Mr '42

Industrial health; symposium at Medical college of Virginia, Richmond. Ind Med 10:537-42 D '41

Industrial man hours; how Caterpillar conserves them. H. A. Vonachen. il Ind Med 11:381-3 Ag '42

Industrial medical problems; distribution in California. H. T. Castberg. Ind Med 11:464-6 O '42

Industrial medicine and the workmen's compensation system. J. B. Lauricella. Ind Med 11:415-18; Discussion. H. V. Spaulding. 418-19 S '42

Industrial medicine in aviation; treatment, prevention, maintenance. F. E. Poole. Ind Med 11:330-3 Jl '42

Industrial medicine's present and future responsibility. R. T. Johnstone. Ind Med 11:316-18 Jl '42

Industrial nurse. R. J. Webster, ed. Published in monthly numbers of Safety engineering

Industrial surgery, principles, problems and practice. W. W. Lasher. enl ed 472p $6.50 bibliog(p443-53) Harper '42

Industry on guard against syphilis. Safety Eng 83:39 F '42

Instruction in industrial medicine for medical students. T. L. Hazlett. Ind Med 11:115-16 Mr '42

Keep 'em rolling; medical department of Radford ordnance works. A. McCausland. il Safety Eng 83:34-8 Ja '42

Keeping them on the job; medical department's contribution to manpower conservation. il Nat Safety N 46:82, 84 O '42

Medical and surgical service in a large plant. J. H. Chivers. Ind Med 11:208-11; Discussion. 211 My '42

Medical aspects of industrial training. W. A. Sawyer. Nat Safety N 46:56+ Jl '42

Medical care plan expected to cut compensation claims. Nat Underw 46:19+ O 8 '42

Medical service for employees; East River savings bank. G. O. Nodyne. Bankers M 144:251-3 Mr '42

Need for reducing illness among workers; abstract. P. A. Brehm. Safety Eng 82:36 N '41

New Haven industrial medical service. Science 95:187 F 20 '42

Now it can be done; chest X-ray examination. J. A. Goldberg. il Safety Eng 83:37-9+ Je '42

Outlines of industrial medical service. H. E. Collier. 440p bibliog(p426-31) $5 Wood '41

Policies and procedures of an industrial medical department. I. D. Jenkins. il Ind Med 11:47-55 F '42

Postgraduate course in industrial medicine at the Long Island college of medicine. A. H. Crawford. Science 96:353 O 16 '42

Prevention first; plant medical departments. F. W. Barden. il Safety Eng 83:37-8 My '42

Representative features of a factory health program. Concrete (mill sec) 50:107-8 Ja '42

Safeguarding worker health; Westinghouse electric & mfg. co., East Pittsburgh. T. L. Hazlett. il Factory Management 100:76-7+ Ag '42

Syphilis control program for industry and its integration with the community program. F. G. Gillick and J. Buxell. bibliog Ind Med 10:548-53 D '41

Thieves of health; venereal diseases. J. L. Stenek. il Nat Safety N 45:34, 38 F '42

To guard employee health; medical offices of Commonwealth Edison company. il Am Business 11:32 N '41

Training in health; company physician prepares articles for employee publication; Consolidated Edison co. of N.Y. N. E. Eckelberry. il Nat Safety N 44:26-7 D '41

Tuberculosis in industry; Eastman kodak co. control procedure. Safety Eng 83:39-40 Mr '42

Utility installs model health facilities; Commonwealth Edison company. il plan Elec W 117:651 F 21 '42

Utility's new medical service department; Public service co. of Colorado. il Elec West 89:55 O '42

Venereal disease slows defense. W. S. Knudsen. il Safety Eng 82:39-40 N '41

Whither industrial medicine? A. S. Leven. bibliog Ind Med 11:58-61 F '42

Wiped out dermatitis; J. Greenebaum tanning company. A. B. Schoofs. il Factory Management 100:78-80 Ja '42

See also

Dental service, Industrial
Diseases, Industrial
Eye—Examination
Hospitals, Industrial
Hygiene, Industrial
Nurses and nursing, Industrial
Physical examinations

Directories

Industrial establishments conducting medical services which are approved by the American college of surgeons. Ind Med 11:79-84 F '42

Great Britain

Industrial health; British medical association report. Economist 142:65 Ja 17 '42

Industrial medicine in Britain; summary of recommendations. Ind Med 11:120 Mr '42

MEDICAL service, Trade union

Periodic health examinations; important findings among garment workers. L. Price. Ind Med 11:369-73 Ag '42

MEDICAL statistics

Coding and tabulation of medical and research data for statistical analysis. T. I. Edwards. bibliog il Pub Health Rep 57:7-20 Ja 2 '42

See also

Diseases—Statistics
Mortality—Statistics

MEDICAL students

Medical administration corps of the army; commissions to medical students. Science 95:269 Mr 13 '42

MEDICINE

Art of the healer. B. Aschner. 306p $2.75 Dial press, 432 4th av, New York '42

Doctors at work. A. V. Keliher, ed. 55p $1; school ed 80c Harper '41

Fundamentals of internal medicine. W. M. Yater. 3d rev ed 1021p 250il $9 Appleton-Century '42

MEDICINE—*Continued*

Hughes' Practice of medicine. D. E. Hughes. 16th ed rev 791p $5.75 Blakiston '42
March of medicine. 154p $2 Columbia univ. press '41
Medicine and mankind. A. Sorsby. 236p $3.75 Ryerson press '41
Medico-surgical tributes to Harold Brunn. 571p $6 Univ. of California press, Berkeley '42
Milestones in industrial medicine; T. Lucretii Cari De natura rarum. A. H. Whittaker. il Ind Med 11:214-16 My '42
Physician's handbook. J. Warkentin and J. Lange. 2d ed 281p $1.50 University medical publishers, box 5067, Chicago '42
Responsibilities of medicine in wartime. F. W. Rankin. Science 95:611-14 Je 19 '42
Textbook of medicine. J. J. Conybeare, ed. 5th ed 1131p $7.50 Wood '41

See also
Anesthetics
Antiseptics
Bacteria, Pathogenic
Bacteriology
Chemistry, Medical and pharmaceutical
Diseases
Drugs
Hospitals
Hygiene
Infectious diseases
Mental diseases
Nurses and nursing
Pharmacology
Physicians
Physiology
Public health
Shock
Surgery

Bibliography

Quarterly cumulative index medicus, v.30, July-December, 1941. 1111p Am. medical assn, 535 N. Dearborn st, Chicago '41
Quarterly cumulative index medicus, v.31, January-June, 1942. 933p Am. medical assn, 535 N. Dearborn st, Chicago '42

Dictionaries

American pocket medical dictionary. W. A. N. Dorland, ed. 17th ed rev 1037p $2; thumb indexed $2.50 Saunders '42
Simplified medical dictionary for lawyers. B. S. Maloy. 451p $8 Callaghan '42
Stedman's Practical medical dictionary. S. T. Garber. 15th rev ed 1257p $7.50 Williams & Wilkins '42
Stedman's Shorter medical dictionary. T. L. Stedman. rev & enl ed 635p $2.50 Follett pub. co, 1255 S. Wabash av, Chicago '42
Taber's Cyclopedic medical dictionary, including a digest of medical subjects. C. W. Taber and others. 2d ed 1487p $2.50; indexed $3 Davis '42

Examinations

Medical state and national board summary. W. H. Kupper. 369p $4.50 Colt press, Paterson, N.J. '42

History

Modern medicine, its progress and opportunities. N. W. Wilson and S. A. Weisman. 218p bibliog(p209-14) $2 George W. Stewart, New York '42
Source book of medical history. L. Clendening, ed. 685p $10 Harper '42

International aspects

See also New York academy of medicine —Inter-America division

Periodicals

See also
British medical journal

Study and teaching

Postgraduate course in industrial medicine at the Long Island college of medicine. A. H. Crawford. Science 96:353 O 16 '42
Tropical medicine at Tulane university. Science 96:399 O 30 '42

Terminology

Medical orthoepy. B. N. Craver. Science 96:272-3 S 18 '42

Brazil

Work of the Rockefeller foundation in Brazil. Science 95:19-20 Ja 2 '42

China

Chinese lessons to western medicine; a contribution to geographical medicine from the clinics of Peiping union medical college. I. Snapper. 380p $5.50 Interscience publishers, New York '41

Germany

Public health in Germany. Science 96:17-18 Jl 3 '42

Japan

Mataro Nagayo, president of the Japanese foundation for cancer research. W. Nakahara. Science 94:479-80 N 21 '41

Russia

Russian interchange; Anglo-Soviet medical committee. Science 95:456-7 My 1 '42

Siberia

Achievements of medicine in Siberia. Science 96:265 S 18 '42

MEDICINE, Clinical

Laboratory manuals

Technical methods for the technician. A. L. Brown. 2d ed 379p $4 College book co, 1836 N. High st, Columbus, Ohio '41

MEDICINE, Military

Biologicals in war; abstract. C. C. Hillman. Oil Paint & Drug Rep 141:63 My 11 '42
Biology and medicine in the war. J. E. Hawkins, jr. Science 95:507-8 My 15 '42
Chemical warfare course, University of Cincinnati college of medicine. Science 95:400-1 Ap 17 '42
Dried serum for military use. W. H. Pitcher. il Can Chem & Process Ind 26:234, 236 Ap '42
Impact of modern warfare viewed by medical men. Nat Underw (Life ed) 46:2+ O 30 '42
Medical care of the fighting forces of the United States. A. N. Richards. Science 96:sup8 Ag 28 '42
Medical organisation and surgical practice in air raids. P. H. Mitchiner and E. M. Cowell. 2d ed 296p $3.25 Blakiston '42
Memoranda on medical diseases in tropical and sub-tropical areas. 282p $4.75 Chemical pub. co. '42
Vitamin C in the war. H. N. Holmes. Science 96:384-6 O 23 '42
War medicine; a symposium. W. S. Pugh, ed. 565p $7.50 Philosophical lib, 15 E. 40th st, New York '42

See also
United States—Army—Medical and sanitary affairs
World war, 1939—Medical and sanitary affairs

MEDICINE, Naval

Short history of nautical medicine. L. H. Roddis. 359p bibliog(p355-9) $3 Harper '41

MEDICINE, Popular

Family book of medicine. D. Polowe. 370p 49c World pub. co, Cleveland '41

MEDICINE, Preventive

Aims and achievements of the Chilean preventive medicine act. M. de Viado. Int Labour R 46:123-35 Ag '42
Preventive medicine in modern practice, edited, under the auspices of the Committee on public health relations of the New York academy of medicine. 3d ed 851p $10 Harper '42
Social medicine; closer study of relation of external factors and disease promised. Economist 143:105 Jl 25 '42

See also
Bacteriology
Hygiene
Immunity
Physical examinations
Public health administration

MEDICINES, Proprietary

Fight for life. Business Week p56+ Ap 4 '42
Packaged medicine advisory body formed. Oil Paint & Drug Rep 141:7+ Je 1 '42

MEDITERRANEAN sea

Mediterranean. E. Ludwig. 632p $3.75 McGraw-Hill '42

MEDITERRANEAN sea—*Continued*
Sea of memories; the story of Mediterranean strife past and present. C. Moran. 320p $3.50 Scribner '42

MEEHANITE
Brake drums; dynamometer tests on grey cast-iron and meehanite. O. Smalley. il Automobile Eng 32:23-7 Ja '42
Manufacture of high test cast iron crankshafts. E. M. Currie and R. B. Templeton. il Iron Age 149:42-6 My 21 '42; Excerpts. Metals & Alloys 16:308 Ag '42
Meehanite a substitute material for gear cases and propellers. Marine Eng 47:261 O '42
Meehanite castings. Product Eng 12:667-9 D '41
Micro and macro structures of gray iron and meehanite. C. R. Austin and M. M. Lipnick. il Iron Age 149:72-4 My 7; 58-61+ My 14 '42

MEES, Charles Edward Kenneth, 1882-
Portrait. Fortune 25:65 Ap '42

MEGALAGUS turgidus
Skull of Megalagus turgidus (Cope). E. C. Olson. il Am J Sci 240:505-11 Jl '42

MEIKLEJOHN, Alexander
Portrait. Business Week p50 S 26 '42

MELALEUCA alternifolia. See Tea tree oils

MELAMINE resins
Amino resins for coatings. R. W. Auten. Mod Plastics 19:188+ N '41
Melamine resin patent. News Ed 19:1408 D 10 '41
Melamine resins for coatings; abstract. J. R. Alexander. Chem & Ind 61:72 F 7 '42
Reducing breakage in the navy; melamine tableware. il Mod Plastics 20:80-1+ N '42

MELIBIASE
Determination of melibiase activity. P. P. Gray and H. Rothchild. bibliog Ind & Eng Chem Anal ed 13:902-5 D 15 '41

MELLON institute of industrial research. See Pittsburgh university. Mellon institute of industrial research

MELTING points
Ammonium salts of aliphatic carboxylic acids. S. Zuffanti. bibliog Am Chem Soc J 63:3123-4 N '41
Effect of soft glass on melting point of rotenone. H. A. Jones. Ind & Eng Chem Anal ed 13:819 N 15 '41
Melting point of impure organic compounds. E. Allen. J Chem Educ 19:278-81 Je '42
Melting points of toxicarol and of related compounds. S. H. Harper. Chem Soc J p878 D '41
Metal melting temperatures; melting points keyed to color scale; data sheet. Power 86:521 Jl '42
Molal volumes of aliphatic hydrocarbons at their melting points. G. Egloff and R. C. Kuder. bibliog J Phys Chem 46:296-304 F '42
New medium for melting-point baths; Dowtherm A. J. Kamlet. Science 95:308 Mr 20 '42
Properties of cellulose esters of acetic, propionic, and butyric acids. C. J. Malm, C. R. Fordyce and H. A. Tanner. Ind & Eng Chem 34:430-5 Ap '42
Refractive index measurements at and above the melting point of solids. H. A. Frediani. bibliog il Ind & Eng Chem Anal ed 14:439-41 My 15 '42
Structural investigations upon a substituted dipyrrylmethane; an unusual melting point-symmetry relationship. A. H. Corwin, W. A. Bailey, jr. and P. Viohl. bibliog Am Chem Soc J 64:1267-73 Je '42
Temperature data; chart includes melting points, temperature color scale, conversion data. G. Sykes. Welding J 21:178 Mr '42
Use of phenylhydrazine to characterize organic acids. G. H. Stempel, jr. and G. S. Schaffel. Am Chem Soc J 64:470-1 F '42
Variation with temperature of the principal elastic moduli of NaCl near the melting point. L. Hunter and S. Siegel. bibliog il diag Phys R 61:84-90 Ja 1 '42

MELVILLE shoe corporation
Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 15 '41

MEMBRANES
Acoustic filtration by membranes. L. W. Labaw. il Acoustical Soc Am J 13:353-9 Ap '42
Criticism of the Teorell-Meyer-Sievers theory of membrane permeability. E. S. Fetcher, jr. bibliog J Phys Chem 46:570-4 My '42
Electrochemical properties of mineral membranes; beidellite membranes and the determination of sodium. C. E. Marshall and C. A. Krinbill. bibliog Am Chem Soc J 64:1814-19 Ag '42
Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42
Electrochemical properties of mineral membranes; the estimation of ammonium-ion activities; the measurement of ammonium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. J Phys Chem 46:325-34 F '42
Electrokinetic equations for gels and the absolute magnitude of electrokinetic potentials. J. J. Bikerman. bibliog J Phys Chem 46:724-30 Je '42
Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42
Membrane curing method is successful in concrete highway construction. Concrete 50:35 O '42

See also
Films
Osmosis

MEMPHIS, Tennessee
Memphis, down in Dixie. il Chem & Eng N 20:111-14 Ja 25 '42
Story of a river town. il Chem & Eng N 20:317-20 Mr 10 '42
Travel to Memphis. il Chem & Eng N 20:161-4 F 10 '42

Industries

Defense industry in Memphis. il Chem & Eng N 20:437 Ap 10 '42
Industrial Memphis. il Chem & Eng N 20:361-5 Mr 25 '42

Rapid transit

How mass transportation is conducted. M. A. Jarrow. il Mass Transportation 38:278-84 O '42

MEN as purchasers
Coffee and shoes rank high in wartime needs of males; P.I. survey. P. H. Erbes, jr. Ptr Ink 200:15-16+ Jl 10 '42

MÉNIÈRE'S disease
Anti-pellagra vitamin; remedy for Ménière's disease; abstract. M. Atkinson. Science 95:sup13 My 8 '42

MENINGITIS
Possible epidemic of meningitis; abstract. J. H. Dingle and M. Finland. Science 95:sup8 F 20 '42
Studies on bactericidal and phagocytic activity of normal human blood on meningococci in relation to the skin test with meningococcus toxins. S. E. Branham, A. P. Hitchens and M. B. Root. bibliog Pub Health Rep 57:1021-31 Jl 10 '42
Study of the skin test with meningococcus toxins in a group of boys. A. P. Hitchens, S. E. Branham and M. B. Root. bibliog Pub Health Rep 57:1015-21 Jl 10 '42

MEN'S furnishing goods
See also
Clothing trade

MEN'S stores
Man's shop; Neiman Marcus specialty shop, Dallas, Texas. il diags plans Arch Forum 75:443-5 D '41
Men's store remodeled for modern merchandising; Wallach's, Brooklyn, N.Y. il plan Arch Rec 92:60-1 O '42

MEN'S suiting fabrics

Indigo blue and alizarine; dyeing men's suitings and overcoating cloths. Textile Col 63:645, 656 N '41

Minimizing inventory losses in the men's wear division of the wool-textile industry. R. B. Armstrong. 40p pa 50c Textile foundation, Washington, D.C. '41

Spun rayon summer suits popular this season. il Rayon 23:462-3 Ag '42

Tropical topic; summer suitings. Business Week p35-6 Je 6 '42

MEN'S suits

Rating

Another suit tested. Consumers' Research Bul 9:16 Ap '42

MENSCHUTKIN reaction

Study of the Menschutkin reaction using radioactive hydrogen as a tracer. D. Harman, T. D. Stewart and S. Ruben. bibliog Am Chem Soc J 64:2294-6 O '42

MENSURATION

Solid geometry and mensuration. D. T. Sigley and W. T. Stratton. 163p $1.60 Dryden press, 103 Park av, New York '42

See also

Gages
Measurement
Measuring instruments
Surveying
Weights and measures

MENTAL diseases

Crazy drivers may actually be insane; abstract. L. S. Selling. Sci Am 165:334 D '41

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1195-1209 Ag 14 '42

Just what is insanity? L. J. Pankow. Sci Am 165:330-2; 166:9-11 D '41-Ja '42

Mental breakdowns and the war; abstract. R. D. Gillespie. Science 94:sup12-13 N 28 '41

Mentally ill and public provision for their care in Illinois. S. K. Jaffary. 214p pa $1.25 Univ. of Chicago press '42

Psychiatry and medical education. F. G. Ebaugh and C. A. Rymer. 619p $3.50 Commonwealth fund, New York '42

Refrigeration for insanity; hibernation at lowered temperatures promises value as a treatment. B. M. Newman. il Sci Am 167:160-2 O '42

MENTAL hygiene

Administrative organization for mental hygiene. V. H. Vogel. Pub Health Rep 57:537-42 Ap 10 '42

The answer is, your nerves. A. S. Jackson. 197p $2 Kilgore printing co, 117 E. Mifflin st, Madison, Wis. '42

Application of mental hygiene. M. Brown. Ind Med 11:97-100 F '42

Directory of psychiatric clinics in the United States, 1940. M. E. Kirkpatrick, comp. 41p pa 50c Nat. committee for mental hygiene, 1790 Broadway, New York '40

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1195-1209 Ag 14 '42

Health for body and mind. W. F. Cobb. rev ed 534p $1.60 Appleton-Century '41

Help yourself to happiness. D. Seabury. 345p $1 Garden City pub. co, Garden City, N.Y. '42

How to be your best. J. G. Gilkey. 166p $1.75 Macmillan '42

How to find happiness and keep it. A. Montagu. 298p $2.95 Doubleday '42

In search of sanity. A. S. Gibb. 546p $5 Farrar '42

Mental health in time of war; sixth yearbook of the Texas society for mental hygiene. H. T. Manuel, ed. 63p pa 20c Univ. of Texas, Austin '42

Mental hygiene for community nursing. E. K. Clarke. 262p bibliog(p251-7) $3.50 Univ. of Minnesota press, Minneapolis '42

Mental hygiene in school and home life for teachers, supervisors, and parents. L. D. Crow and A. Crow. 474p $3 McGraw-Hill '42

Mental hygiene services in rural areas; the program of the Mental hygiene division, Suffolk County Department of health, New York. G. M. Lott. Pub Health Rep 57:1115-26 Jl 31 '42

Psychiatric examinations of naval recruits; abstract. U. H. Helgesson. Science 95:sup 12+ My 22 '42

See also

Personality

MENTAL hygiene, Industrial

Industrial psychiatry in wartime; employability of certain mental cases. L. S. Selling. Ind Med 11:407-11 S '42

Psychiatry in personnel management. J. Haskins. Personnel J 20:338-45 Ap '42

See also

Fatigue

MENTAL tests. See Ability tests

MENTHOL

Menthol from thymol by a new process; abstract. A. L. Barney and H. B. Hass. Chem & Met Eng 49:154-5 Je '42

Thymol to racemic menthol; abstract. H. B. Hass and A. L. Barney. Chem Ind 50:640 My '42

Vick Chemical seeks American-made menthol. Oil Paint & Drug Rep 141:4+ Mr 30 '42

Analysis

Determination of menthol in oil of peppermint; acetyl chloride as a reagent. B. E. Christensen and L. Pennington. Ind & Eng Chem Anal ed 14:54-5 Ja 15 '42

MERCANTILE buildings

See also

Commercial buildings
Department stores
Store buildings
Warehouses

MERCANTILE system

Politics of mercantilism. P. W. Buck. 240p bibliog(p195-226) $2 Holt '42

MERCAPTANS

Heat capacity, entropy, heats of fusion, transition, and vaporization and vapor pressures of methyl mercaptan. H. Russell, jr., D. W. Osborne and D. M. Yost. bibliog Am Chem Soc J 64:165-9 Ja '42

Kinetic study of the reactions of *n*-butyl bromide with the sodium salts of phenol, thiophenol and *n*-butyl mercaptan. O. R. Quayle and E. E. Royals. bibliog Am Chem Soc J 64:226-30 F '42

Malodorous mercaptans; caustic-methanol process, Atlantic refining company. H. W. Field. flow diag il Sci Am 166:12-14 Ja '42

Naphtha treating pays its way. C. F. Mason, R. D. Bent and J. H. McCullough. il diag Am Pet Inst Proc 22(3):45-9 '41; Same. Oil & Gas J 40:114, 116+ N 6 '41; Discussion. Am Pet Inst Proc 22(3):49-51 '41

See also

Ethyl mercaptan

Analysis

New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

MERCAPTOACETIC acid

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. bibliog il Ind & Eng Chem 34:1398-1402 N '42

MERCAPTOBENZOTHIAZOLE

Reactions of benzthiazole derivatives; the interaction of 1-thiolbenzthiazoles and alcohols. W. H. Davies and W. A. Sexton. Chem Soc J p304-7 Ap '42

Review of methods used to reduce internal corrosion of gasoline pipe lines. W. A. Schulze, L. C. Morris and R. C. Alden. Am Pet Inst Proc 22(4):22-9 '41; Same. Oil & Gas J 40:172-5 N 6 '41; Discussion. Am Pet Inst Proc 22(4):39-45 '41

MERCERIZING

Hydrolysis and catalytic oxidation of cellulosic materials; hydrolysis of mercerized cottons. R. F. Nickerson. bibliog Ind & Eng Chem 34:85-8 Ja '42

MERCERIZING—*Continued*

Mercerising. J. T. Marsh. 458p $9 Van Nostrand '42

MERCHANDIZING

Aircastles of '42; banks should help promote sound merchandising and advertising methods. J. O. Peckham. Banking 34:22-3+ Mr '42

Continental Coffee develops new lines to beat shortage threat. Sales Management 51:43 N 1 '42

Effective grocery wholesaling. W. H. Meserole and C. H. Sevin. (Economic ser. 14) 241p U.S. Bur. of foreign and domestic commerce, Washington; pa 40c Supt. of doc. '41

Effects of the war on distributors and retailers; abstract. K. B. Morrish. Bankers M 145:173-4 Ag '42

Fundamentals of selling; meeting consumer demand. R. G. Walters and J. W. Wingate. 4th ed 562p $1.68 South-western pub. co. '42

Manufacturers in many fields pool opinions on 1942 sales planning. Sales Management 49:30-2 D 15 '41

Quality goods, quality merchandising; Jacques Kreisler jewelry. C. J. Swan. il Ptr Ink 197:17-19 N 21 '41

Quick turnover in diamonds. il Ptr Ink 197: 21-3 D 26 '41

Regular products banned by war, Thor finds and sells substitutes; washers and ironers replaced by Health cabinet and other products. il Sales Management 51:38 S 1 '42

Sales contest technique to speed service to user; Westinghouse service opportunity contest. E. J. Hegarty. Ptr Ink 200:26+ Jl 31 '42

Selling what you've got, when you haven't got it; not so much leg work for salesmen but head work is needed more than ever. J. H. Van Deventer. Ptr Ink 199:17-18, 65-8 Ap 17 '42

Trend is toward fewer calls, larger orders, in general merchandise jobbing field. P. Salisbury. Sales Management 50:42-4 Mr 15 '42

What to do about civilian selling in wartime. P. T. Cherington. Adv & Sell 35: 13-15, 64-5 Ag; 16+ S '42

See also

Advertising
Buying habits
Catalogs
Chain stores
Christmas business
Consignment selling
Delivery of goods
Department stores—Management
Display of merchandize
Electric apparatus and appliances—Merchandizing
Exhibits, Traveling
Fashion
Gas appliances—Merchandizing
Gas industry—Merchandizing
Guaranty of products
Jobbers
Mail order business
Marketing
Package goods
Premiums (merchandizing)
Price cutting
Price policies
Products, Improved
Purchasing
Retail trade—Store management
Returned goods
Sales management
Sales policies
Salesmanship
Samples (merchandizing)

Study and teaching

Classes in distributive education ask selling helps from manufacturers. Sales Management 49:24-6, 28+ D 15 '41

Laboratory materials for selling classes. C. A. Nolan. J Retailing 17:123-5 D '41

MERCHANT marine

Merchant service to-day. L. Howe. 159p $1.50 Oxford (Toronto) '41

War and merchant seamen; unemployment indemnities and compensation for loss of effects in the event of loss of the ship; detention and family allowances. Int Labour R 45:493-511 My '42

See also

Insurance, Marine
Maritime law
Seamen
Shipping
Steamboat lines

Officers

Merchant marine officers' handbook. E. A. Turpin and W. A. MacEwen. 740p $5 Cornell maritime press, New York '42

France

Axis shipping bottleneck; control of French merchant-marine would greatly relieve German transport problem. P. Wohl. Barron's 22:9 Ap 20 '42

Great Britain

Heroes of the Atlantic; the British merchant navy carries on! I. Halstead. 235p $2.50 Dutton '42

Merchant marine. Economist 142:416-17 Mr 28 '42

Merchant marine. Lord Mottistone. Engineer 174:253-4 S 25 '42

Merchant navy at war. A. C. Hardy. 72p $1.80 Transatlantic arts, Forest Hills, New York '41

My name is Frank. F. Laskier. 96p $1 Norton '42

Twenty years of British mercantile sea power. Engineering 152:371-2 N 7 '41

Japan

See also
Shipbuilding—Japan

Netherlands

Insurance men study royal decree regarding requisitioning of Netherlands fleet. Weekly Underw 147:275-6 Ag 8 '42

Sweden

Swedish merchant marine at the close of 1940 and 1941. For Comm W 7:17 My 30 '42

Swedish merchant marine during 1941. For Comm W 6:20 Mr 28 '42

United States

Ghost fleet; ships sunk or damaged repaired for merchant marine. il Marine Eng 47: 150-2 S '42

Guns to arm our merchant marine; plant set up by the Pontiac motor division. C. O. Herb. il Mach 48:107-22 Ja '42

Maritime labor force in the United States. Monthly Labor R 55:435-40 S '42

Men and ships, today's unbeatable team. E. S. Land. For Comm W 9:3+ O 24 '42

Merchant marine training functions transferred. Comm & Fin Chr 156:470 Ag 6 '42

Merchant ships for victory. H. L. Vickery. il Mach 49:126-131 N '42

No.1 bottleneck now is lack of ships. il Fortune 25:64-71+ My '42

Sees much enlargement of the merchant marine. H. L. Vickery. Nat Underw 46:1 O 29 '42

Shipbuilding for defense; merchant vessels completed and under construction, 1941. Marine Eng 47:86-104 Ja '42

War problems of the merchant marine. E. S. Land. Marine Eng 47:95-7 Je '42

War shipping administration takes over training of officers and seamen. Marine Eng 47:166+ Ag '42

Youth and the sea. J. J. Floherty. 237p $2 Lippincott '41

See also

Shipping—United States
United States—Maritime commission

MERCHANTS

Merchants and trade of the Connecticut River valley, 1750-1820. M. E. Martin. 284p bibliog(p269-74) pa 75c Dept. of history, Smith college, Northampton, Mass. '39

MERCHANTS association of New York city. See Commerce and industry association of New York, inc.

MERCHANTS fire insurance company, Denver

Company analysis. Spectator (Property ed) 8:34-5 O 15 '42

MERCIER, Armand Theodore, 1881-

Elected president of Southern Pacific. por Ry Age 111:999-1000 D 13 '41

Southern Pacific's wartime president. por Barron's 22:13 Mr 2 '42

MERCK and company

Common stock offered. Comm & Fin Chr 154:1597 D 20 '41

Growth stocks and the investor. E. N. Chapman. Barron's 21:13 D 15 '41

Preferred stock offered. Comm & Fin Chr 154:1494 D 13 '41

Proposes $5,369,000 additional preferred stock. Comm & Fin Chr 154:1055 N 15 '41

MERCURATION

Monomercuration of benzene. K. A. Kobe and P. F. Lueth, jr. bibliog il diag Ind & Eng Chem 34:309-13 Mr '42

MERCURY

Accommodation coefficient of mercury on platinum and the heat of vaporization of mercury. L. B. Thomas and F. G. Olmer. diags Am Chem Soc J 64:2190-5 S '42

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

Dissolved oxygen recordings with the dropping mercury electrode. R. S. Ingols. bibliog il Ind & Eng Chem Anal ed 14:256-8 Mr 15 '42

Electrolytic cell recovers mercury. il Elec W 116:1920 D 13 '41

Interference phenomena with a moving medium. H. E. Ives and G. R. Stilwell. il diags Opt Soc Am J 31:14-24; 32:25-31 Ja '41, Ja '42

Investigation of the scattering of positive alkali ions at an angle of 90° in mercury vapor. Sister John Baptist Macelwane. diag Phys R 60:762-5 D 1 '41

Mechanism of processes initiated by excited atoms; photosensitization by excited mercury and cadmium. K. J. Laidler. bibliog J Chem Phys 10:43-50 Ja '42

Mercury arc cathode. C. G. Smith. bibliog diags Phys R 62:48-54 Jl 1 '42

Mercury; empire resources are quite inadequate. L. Sanderson. Can Min J 63:445-6 Jl '42

Mercury for process heating; efficient operation at high temperatures. H. Seymour. diag Chem Age (Lond) 47:157-60 Ag 15 '42

Mercury photosensitized reactions of ethylene. D. J. LeRoy and E. W. R. Steacie. bibliog diags J Chem Phys 9:829-39 D '41

Mercury sensitization and the optical and X-ray latent images. A. May. Opt Soc Am J 32:219-23 Ap '42

Mercury vapor made visible. H. C. Froelich. diag J Chem Educ 19:314 Jl '42

Minor metals, 1941. H. M. Meyer. Eng & Min J 143:51 F '42

Pure mercury. E. Wichers. Chem & Eng N 20:1111-12 S 10 '42

Quenching and depolarization of mercury resonance radiation by the rare gases. L. O. Olsen. Phys R 60:739-42 N 15 '41

Resonance level of Hg at negative energy. M. Kimura. Phys R 60:688-9 N 1 '41

Use of mercury in contact with ammonia; explosive hazard. R. G. Roberts. Science 94:591-2 D 19 '41

See also

Amalgams

Electric lamps, Mercury vapor

Polarography

Analysis

Absorption spectrum as a quantitative test for mercury vapor in air. K. C. Clark and O. Oldenberg. bibliog J Chem Phys 9:786-8 N '41

Chemistry of group 1: silver, mercury, lead; summary of results of recent research. A. B. Garrett, M. V. Noble and S. Miller. bibliog J Chem Educ 19:485-9 O '42

Detection of bivalent mercury; abstract. G. Veselskaya. Chem Age (Lond) 46:319 Je 27 '42

Detection of the mercuric ion in semimicro qualitative analysis. M. G. Burford and A. F. Wichrowski. bibliog J Chem Educ 19:333-6 Jl '42

Determination of mercury in organic compounds; an iodometric procedure based upon the method of Rupp. H. A. Sloviter, W. M. McNabb and E. C. Wagner. bibliog diags Ind & Eng Chem Anal ed 13:890-3 D 15 '41

Field test for quicksilver; abstract. G. R. Fansett. Min Cong J 28:28 N '42

Herman's method for the determination of mercury; ultraviolet lamp and fluorescent screen used. J. M. Samuel. il Eng & Min J 143:58-9 Je '42

Iodine reaction and a mercury reaction of photographic importance. A. Steigmann. Soc Chem Ind J 61:82-4 My '42

Photographic emulsions as specific reagents for traces of mercury and copper. A. Steigmann. Soc Chem Ind J 61:51-2 Mr '42

Photometric method for estimation of minute amounts of mercury. A. E. Ballard and C. D. W. Thornton. bibliog il diags Ind & Eng Chem Anal ed 13:893-7 D 15 '41

Season cracking test for cartridge brass; saving mercury. H. Gisser. Metals & Alloys 16:238-40 Ag '42

Significance of urinary mercury. E. D. Storlazzi and H. B. Elkins. bibliog diags J Ind Hygiene 23:459-65 D '41

Isotopes

Radioactive isotopes of mercury. C. S. Wu and G. Friedlander. bibliog Phys R 60:747-8 N 15 '41

Spectra of Hg II and Hg III. S. Mrozowski. il Phys R 61:605-13 My 1 '42

Prices

Lid on mercury. Business Week p85-6 F 14 '42

Mercury price ceiling applies to every grade. Oil Paint & Drug Rep 142:3+ Jl 13 '42

Mercury quivers. Business Week p95 Je 13 '42

Quicksilver, sweat, and tears; high lights of the past four years. W. Bradley. il Min & Met 23:378-80 Jl '42

MERCURY acetate

Monomercuration of benzene. K. A. Kobe and P. F. Lueth, jr. bibliog il diag Ind & Eng Chem 34:309-13 Mr '42

MERCURY arc rectifiers. See Electric rectifiers

MERCURY boilers. See Boilers, Mercury

MERCURY compounds

Electric polarisation of mercurous trichloroacetate. N. R. Davidson and L. E. Sutton. Chem Soc J p565-7 S '42

Identification of amides through the mercury derivatives. J. W. Williams, W. T. Rainey, jr. and R. S. Leopold bibliog Am Chem Soc J 64:1738-9 Jl '42

Mildewproofing military fabrics; phenyl mercuric acetate effective. W. S. Marsh and A. E. Duske. bibliog il Textile World 92:58-60 Ag '42

Monomercuration of benzene. K. A. Kobe and P. F. Lueth, jr. bibliog il diag Ind & Eng Chem 34:309-13 Mr '42

Phenyl mercuric oleate; skin irritant properties. C. P. McCord, S. F. Meek and T. A. Neal. J Ind Hygiene 23:466-9 D '41

Reactions between *sym*-diphenyltriazene and mercury(II) salts. C. M. Knowles and G. W. Watt. bibliog Am Chem Soc J 64:935-7 Ap '42

See also

Mercuration

MERCURY electrode. See Polarography

MERCURY fulminate

Dead-pressing mercury fulminate; abstract. K. K. Andreev. Chem & Met Eng 49:164-5 Ap '42

Fulminate of mercury; hazards and precautions. bibliog Nat Safety N 44:38, 40+ D '41

MERCURY halides

Electric moments of some organomercuric halides in dioxane. B. C. Curran. bibliog Am Chem Soc J 64:830-3 Ap '42

MERCURY industry and trade

Mercury brokerage clarified by OPA. Oil Paint & Drug Rep 141:7+ Mr 23 '42

MERCURY industry and trade—*Continued*

Position of the quicksilver industry. G. I. Gould. il Min Cong J 28:41-3 F '42

Quicksilver, sweat, and tears; high lights of the past four years. W. Bradley. il Min & Met 23:378-80 Jl '42

MERCURY metallurgy

Mining quicksilver in Nevada. S. H. Williston. il diag Min Cong J 28:24-8 N '42

New Almaden; an old mine being modernized. C. N. Schuette. il Min Cong J 28:25-8 My '42

Progress reports, Metallurgical division; cinnabar-reduction plants of the southwestern Arkansas quicksilver district. S. M. Shelton and W. A. Calhoun. pls map U S Bur Mines Rep of Invest 3627:1-24 '42

MERCURY mines and mining

Mercury poisoning as a mining hazard. S. J. Davenport and D. Harrington. U S Bur Mines Information Circ 7180:1-27 bibliog (p26-7) '41; Excerpts. Eng & Min J 143: 119-20+ Mr '42

New process for controlling mercury vapor. M. Randall and H. B. Humphrey. bibliog U S Bur Mines Information Circ 7206:1-10 '42

Salivation hazard lessened in quicksilver mining; spraying with lime sulphur solution. T. Soule. il Eng & Min J 143:51-3 Ap '42

Arkansas

Progress reports, Metallurgical division; cinnabar-reduction plants of the southwestern Arkansas quicksilver district. S. M. Shelton and W. A. Calhoun. pls map U S Bur Mines Rep of Invest 3627:1-24 42

California

Great Western quicksilver mine. W. Bradley. il Comp Air M 47:6644-6 Ja '42

New Almaden; an old mine being modernized. C. N. Schuette. il Min Cong J 28:25-8 My '42

Quicksilver and antimony deposits of the Stayton district. E. H. Bailey and W. B. Myers. map U S Geol S Bul 931-Q:405-34, pl 64-7; pa 40c Supt. of doc. '42

Quicksilver deposits in San Luis Obispo county and southwestern Monterey county. E. B. Eckel, R. G. Yates and A. E. Granger. diags fold maps U S Geol S Bul 922-R:515-80, pl 78-87; pa 75c Supt. of doc. '41

Idaho

Geology of the Idaho Almaden quicksilver mine near Weiser. A. L. Anderson. (Idaho Bur. mines and geology pamphlet 55) 9 numb l Univ. of Idaho, Moscow '41

Nevada

Investigation as to the presence of commercial quantities of mercury and gold in the dry lakes of Nevada. J. A. Carpenter. (Geology and mining ser. 35) 22p Univ. of Nevada, Reno '41

Mining quicksilver in Nevada. S. H. Williston. il diag Min Cong J 28:24-8 N '42

Quicksilver deposits of the Opalite district, Malheur county, Oregon, and Humboldt county, Nevada. R. G. Yates. map U S Geol S Bul 931-N:319-48, pl 52-8; pa 60c Supt. of doc. '42

Oregon

Quicksilver deposits in the Steens and Pueblo mountains, southern Oregon. C. P. Ross. map U S Geol S Bul 931-J:227-58, pl 39-44; pa 40c Supt. of doc. '42

Peru

Transport difficulties in Peru; Panaminas inc.'s new four ton equipment moved by 85 natives. il Eng & Min J 143:55 Jl '42

United States

Mercury mining today in the United States. C. P. Ross. il Eng & Min J 143:55-8 S '42

Western states

Some quicksilver prospects in adjacent parts of Nevada, California, and Oregon. C. P. Ross. maps U S Geol S Bul 931-B:23-37; pa 25c Supt. of doc. '41

MERCURY nitrate

Effect of catalysis upon the oxidation products of hydroxylamine. T. H. James. bibliog Am Chem Soc J 64:731-4 Ap '42

Influence of external stresses on tendency of brass wires to stress-corrosion crack, as indicated by the mercurous nitrate test. H. P. Croft. diag Am Soc T M Proc 41:905-17; Discussion. 928-30 '41

Mercury cracking test, procedure and control. H. Rosenthal and A. L. Jamieson. il Am Soc T M Proc 41:897-904; Discussion. 927-30 '41

Season cracking test for cartridge brass; saving mercury. H. Gisser. Metals & Alloys 16:238-40 Ag '42

Titration of bromide and iodide ions with mercuric nitrate solution using diphenyl carbazide indicator. H. R. McCleary. bibliog Ind & Eng Chem Anal ed 14:31-2 Ja 15 '42

MERCURY oleate

See also
Phenyl mercury oleate

MERCURY ores

Herman's method for the determination of mercury; ultraviolet lamp and fluorescent screen used. J. M. Samuel. il Eng & Min J 143:58-9 Je '42

Quicksilver and antimony deposits of the Stayton district, California. E. H. Bailey and W. B. Myers. map U S Geol S Bul 931-Q:405-34, pl 64-7; pa 40c Supt. of doc. '42

Quicksilver deposits in San Luis Obispo county and southwestern Monterey county, California. E. B. Eckel, R. G. Yates and A. E. Granger. diags fold maps U S Geol S Bul 922-R:515-80, pl 78-87; pa 75c Supt. of doc. '41

Quicksilver deposits in the Steens and Pueblo mountains, southern Oregon. C. P. Ross. map U S Geol S Bul 931-J:227-58, pl 39-44; pa 40c Supt. of doc. '42

Some concepts on the geology of quicksilver deposits in the United States. C. P. Ross. map bibliog(40 titles) Econ Geol 37:439-65 S '42

MERCURY oxides

Solubility relations of mercuric oxide in aqueous solutions of hydrogen chloride. A. B. Garrett and J. Lemley. bibliog Am Chem Soc J 64:2380-3 O '42

MERCURY poisoning

Elimination of mercury hazard in the felt hat industry. G. D. Beal, R. R. McGregor and A. W. Harvey. bibliog il News Ed 19:1239-44 N 25 '41

Mercury poisoning. C. E. Johnson. Nat Safety N 45:34+ Ap '42

Mercury poisoning as a mining hazard. S. J. Davenport and D. Harrington. U S Bur Mines Information Circ 7180:1-27 bibliog (p26-7) '41; Excerpts. Eng & Min J 143: 119-20+ Mr '42

Mercury poisoning from the use of anti-fouling plastic paint. L. J. Goldwater and C. P. Jeffers. J Ind Hygiene 24:21-3 F '42

Method of control. Business Week p48 Jl 18 '42

New process for controlling mercury vapor. M. Randall and H. B. Humphrey. bibliog U S Bur Mines Information Circ 7206:1-10 '42

Salivation hazard lessened in quicksilver mining; spraying with lime sulphur solution. T. Soule. il Eng & Min J 143:51-3 Ap '42

Significance of urinary mercury. E. D. Storlazzi and H. B. Elkins. bibliog diags J Ind Hygiene 23:459-65 D '41

See also
Mercury fulminate

MERCURY turbines

Binary-fluid cycle. W. A. Webster. Elec R (Lond) 130:487-91 Ap 17 '41

MERCURY turbines—*Continued*

Mercury cycle given go-sign at power session, American society of mechanical engineers, New York, Dec. 1-4. Elec W 116:1875 D 13 '41

MERCURY vapor electric lamps. See Electric lamps, Mercury vapor

MERRIAM, Clinton Hart, 1855-1942

Sketch. Z. M. Talbot and M. W. Talbot. Science 95:545-6 My 29 '42

MERRYMOUNT press

Genius of Daniel Berkeley Updike is a priceless heritage. L. C. Gandy. il Inland Ptr 108:43-7 Mr '42

MERYCOIDODON

Analysis of merycoidodon skulls. F. B. Phleger, jr. and W. S. Putnam. bibliog Am J Sci 240:547-66 Ag '42

MESABI ores. See Iron ores—Minnesota

MESITOIC acid

Reaction of the Grignard reagent with esters of highly hindered acids. R. C. Fuson, E. M. Bottorff and S. B. Speck. bibliog Am Chem Soc J 64:1450-3 Je '42

MESITYLALDEHYDE

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

MESITYL compounds

ortho Alkylation and arylation of mesityl aryl ketones. R. C. Fuson and S. B. Speck. Am Chem Soc J 64:2446-8 O '42

MESITYL group

Mechanism of oxidative fission of the furan nucleus; furans with steric hindrance by one α-aryl group. R. E. Lutz and W. P. Boyer. Am Chem Soc J 63:3189-92 N '41

See also

Enols

MESITYL oxide

Hydration of unsaturated compounds; the oxonium complex constant of mesityl oxide. D. Pressman, L. Brewer and H. J. Lucas. bibliog Am Chem Soc J 64:1117-22 My '42

Hydration of unsaturated compounds; the role of the oxonium complexes in the hydration of mesityl oxide and the dehydration of diacetone alcohol. D. Pressman, L. Brewer and H. J. Lucas. Am Chem Soc J 64:1122-8 My '42

Response of guinea pigs and rats to repeated inhalation of vapors of mesityl oxide and isophorone. H. F. Smyth, jr., J. Seaton and L. Fischer. bibliog J Ind Hygiene 24:46-50 Mr '42

MESOCESTOIDES. See Tapeworms

MESOMERISM

Mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents; the aldehydecyanohydrin reaction: evidence for the mesomeric effects of alkyl groups. J. W. Baker and M. L. Hemming. diags Chem Soc J p191-8 Mr '42

MESONS. See Mesotrons

MESOTRONS

Cloud-chamber study of collision electrons in equilibrium with mesons. L. Seren. bibliog il diags Phys R 62:204-14 S 1 '42

Cloud-chamber track of a mesotron stopped by gas. T. H. Johnson and R. P. Shutt. bibliog il Phys R 61:380-1 Mr 1 '42; Same. Franklin Inst J 234:86-9 Jl '42

Cosmic-ray electrons of low energy in the atmosphere. B. Rossi and S. J. Klapman. Phys R 61:414-21 Ap 1 '42

Decay of slow mesons. M. D. de Souza Santos. Phys R 62:178-9 Ag 1 '42

Differential measurements of the meson's lifetime at different elevations. G. Bernardini and others. Phys R 60:910-11 D 15 '41

Direct method for the evaluation of the lifetime of the meson. P. V. Auger, R. Maze and R. Chaminade. diag Phys R 62:307-8 O 1 '42

Electromagnetic properties of nuclei in the meson theory. S. T. Ma and F. C. Yu. bibliog Phys R 62:118-26 Ag 1 '42

Further measurements of the mesotron lifetime. B. Rossi and others. bibliog diag Phys R 61:675-9 Je 1 '42

Life of the mesotron. M. Mott-Smith. Science 95:sup10 My 8 '42

Mass of the meson by the method of momentum loss. J. A. Wheeler and R. Ladenburg. bibliog Phys R 60:754-61 D 1 '41

Meson theory and nuclear forces. H. Wergeland. Phys R 60:835-6 D 1 '41

Meson theory and the magnetic moments of protons and neutrons. H. Fröhlich. bibliog Phys R 62:180 Ag 1 '42

Mesotron component of cosmic rays. H. D. Rathgeber. bibliog Phys R 61:207-11 Mr 1 '42

Mesotron studies with dual telescope. F. A. Benedetto, G. O. Altmann and V. F. Hess. bibliog diags Phys R 61:266-9 Mr 1 '42

Nature of the soft component of cosmic rays at 3500 meters altitude. P. V. Auger. Phys R 61:684-5 Je 1 '42

Origin of the soft component of cosmic rays. B. Rossi and K. Greisen. bibliog Phys R 61:121-8 F 1 '42

Physics in 1941. T. H. Osgood. il J Ap Phys 13:11-13 Ja '42

Pseudoscalar meson field with strong coupling. W. Pauli and S. M. Dancoff. bibliog Phys R 62:85-108 Ag 1 '42

Pseudoscalar mesotron theory of β-decay. E. C. Nelson. bibliog Phys R 60:830-3 D 1 '41

Tensor forces and heavy nuclei. G. M. Volkoff. bibliog Phys R 62:126-33 Ag 1 '42

Scattering

Anomalous scattering of mesons. W. Heitler and H. W. Peng. bibliog Phys R 62:81-2 Jl 1 '42

Electrical and anomalous scattering of mesotrons. R. P. Shutt. bibliog il diag Phys R 61:6-13 Ja 1 '42

MESSERSMITH, George S. 1883-

Portrait. Business Week p62 D 6 '41

METABOLISM

Dynamic state of body constituents. R. Schoenheimer. 78p bibliog(p67-78) $1.75 Harvard univ. press '42

Lipidoses; diseases of the cellular lipid metabolism. S. J. Thannhauser. 370p $6 Oxford '40

Metabolism of mononitroparaffins; recovery of nitroethane from the animal organism. W. Machle, E. W. Scott and J. Treon. J Ind Hygiene 24:5-9 Ja '42

Metabolism of mononitroparaffins; the metabolic products of nitroethane. E. W. Scott. bibliog J Ind Hygiene 24:226-8 O '42

Relation of urinary citric acid excretion to the menstrual cycle and the steroidal reproductive hormones. E. Shorr, A. R. Bernheim and H. Taussky. bibliog Science 95:606-7 Je 12 '42

Steroid hormone excretion by normal and pathological individuals. K. Dobriner and others. bibliog Science 95:534-6 My 22 '42

See also

Nutrition

METAL cleaning

Advertises to share technical knowledge in all-out effort; MacDermid, incorporated. W. D. MacDermid. il Ptr Ink 198:21 Mr 6 '42

Changes occurring in a cleaner bath during use. J. M. Zander. il Am Cer Soc Bul 20:434-7 D '41

Clean? simple test for metal parts. il Sci Am 166:298 Je '42

Cleaning Alclad for production. F. Morris. il Aviation 41:85+ Ap '42; Same abr. Welding J 21:sup197 Ap '42

Cleaning and burring cartridge belt links. il Iron Age 150:47 S 10 '42

Cleaning and finishing. Metal Prog 42:773-8 O '42

Cleaning small bearings. M. Steinhardt. il Mach 49:179-80 S '42

Cleans pipe; tank made from scrap. W. R. Tierce. diags Metals & Alloys 16:707 O '42

Compressed air helps clean machine-gun barrels. il Comp Air M 47:6721 Ap '42

Continuous feed dry scouring of rods and strip. il Iron Age 149:51 Je 25 '42

METAL cleaning—*Continued*

Dry-cleaning fluids speed arms production; solvent degreasing. Iron Age 149:64-5+ Je 18 '42

Evaluation of a surface active agent for metal cleaning; Nacconol NR alone and with alkalies. O. M. Morgan and J. G. Lankler. il Ind & Eng Chem 34:1158-61 O '42

Evaluation of metal-cleaning compounds; a quantitative method. O. M. Morgan and J. G. Lankler. il diag Ind & Eng Chem Anal ed 14:725-6 S 15 '42

Hanson-Van Winkle-Munning wire and Tampico brushes. il Metal Finishing 40:424-5 Ag '42

How to clean enameling stock more thoroughly and quickly. D. J. Benoliel. Cer Ind 38:62+ F '42

Interprocess cleaning of cartridge and shell cases employs drawing lubricants which emulsify or are soluble in water. G. R. Hersam. il diags Steel 110:86+ Je 15 '42

Low temperature bearing lubrication; high speed equipment cleans and re-lubricates anti-friction bearings. il Aviation 41:135, 138 S '42

Magnesium alloy processing. J. P. ApRoberts. bibliog diags Metal Finishing 40:84-7 F '42

Mechanical handling devices speed cleaning of shell and bombs. il Steel 110:88+ Je 1 '42

Metal cleaning and ordnance production. R. W. Mitchell. diags Steel 109:90, 94+ D 8; 86+ D 15; 54+ D 29 '41

Metal cleaning as of today; possible shortage of chlorinated solvents. Automotive & Aviation Ind 86:44+ Ap 1 '42

Metal cleaning; using emulsifiable solvents, Emulso-dip or Emulso-spray. R. W. Mitchell. diags Iron Age 149:49-51 My 14 '42

Methods for cleaning ball bearings. H. C. Park. Elec West 89:55 S '42

Methods of cleaning corrosion coupons. C. E. Lee and A. C. Alter. diag Pet Eng (Annual no) 13:92, 94, 96 [Jl] '42

New cleaning method for aluminum and magnesium. Aviation 41:137+ Ag '42

New emulsion cleaning concentrate; Macosol. Metal Finishing 40:139 Mr '42

Paraffin wash equipment. il Engineer 174:159 Ag 21 '42; Engineering 154:206-7 S 11 '42

Penetrating agent replaces chlorinated solvents. Mach 48:158-9 My '42

Reclaiming used refinery equipment. A. P. Schulze. il Pet Eng 13:107-9, 112, 114 My '42

Removing stains on cartridge cases. J. J. Healy, jr. Metals & Alloys 15:460 Mr '42

Simple metal cleaning check. Iron Age 149:61 Mr 26 '42

Solventol gives clean corrosive-resistant surface. Am Mach 86:1202-3 O 15 '42

Stabilization of chlorinated solvents for metal degreasing. C. F. Dinley. il Metal Finishing 40:448-9 Ag '42

29th buyers reference number. il Am Mach 86:298-9 Ja 22 '42

Wringer removes cleaning oil. Elec W 118:1303 O 17 '42

See also

Aluminum—Cleaning
Castings—Cleaning
Pickling (metals)
Sand blast
Steel—Cleaning

METAL cleaning, Electrolytic

Electrolytic cleaning of cold rolled steel; abstract. E. H. Lyons, jr. Chem & Met Eng 49:168+ F '42

Electrolytic cleaning of metals. H. R. Hanley. il Metal Prog 41:179-83 F '42

Hydrogen embrittlement produced by commercial cleaning and plating solutions; Bullard-Dunn process. H. J. Noble. il Iron Age 148:45-52 N 27 '41; Same. Metal Finishing 40:121-7+ Mr '42

Reclaiming tin, used in the Bullard-Dunn process. F. F. Martin. il Iron Age 150:52-3 S 10 '42

METAL coating

Alloy-sprayer company's metal sprayer. il Metal Finishing 40:480-1 S '42

Building-up and hardfacing in mill maintenance. S. D. Baumer. il diags Steel 111:170, 172 S 14; 70, 72 S 21 '42

Building up bearing surfaces that are worn; practices of three companies. il Factory Management 100:145-6 Ag '42

Building up of worn parts. W. J. Cumming. S A E J 50:139-40 Ap '42; Same. Automobile Eng 32:313-14 Ag '42; Abstracts. Automotive & Aviation Ind 86:21 F 1 '42; Metals & Alloys 15:1038+ Je '42

Economy in maintenance by metallizing; repairing drum shaft of hoist. W. H. Schacht. il Eng & Min J 143:44 Mr '42

Finishing sprayed metals. W. C. Reid. il diags Am Mach 86:1084-7 O 1 '42

How worn parts are rebuilt by metallizing; abstracts. J. E. Wakefield; G. A. Peabody. il S A E J 50:sup47 Je '42

Incorrectly ground tools produce desired results; preparation of surfaces prior to metal spraying. il diags Ry Mech Eng 116:384 S '42

Low temperature metal for proof-casts and protective coating; Cerrosafe. il Iron Age 150:64 N 12 '42

Metal coating of automotive parts; abstract and discussion. H. S. Ingham and J. E. Wakefield. S A E J 50:sup59+ N '42

Metal-spray machine works automatically. il Comp Air M 47:6672 F '42

Metal spraying repairs hydro turbine runners. E. A. Woodhead. il Elec W 117:116 Ja 10 '42

Metallizing, a modern aid in maintenance. il diags Min Cong J 28:17-21 S '42

Metallizing and the conservation of metals. B. W. Deane. il Can Min J 62:837-9 D '41

Metallizing as a method of water works maintenance. C. E. Palmer. il Water Works & Sewerage 89:391-6 S '42; Same cond. Am Water Works Assn J 34:1374-80 S '42; Excerpts. Water & Sewerage 80:20+ D '42; Abstract. Eng N 129:102 Jl 16 '42

Metallizing in paper mill maintenance. W. C. Reid. il diags Paper Ind 23:663-5 O '41; Same. Pulp & Pa of Can 43:282-4 F '42

Metallizing of milk can washing equipment. il Metal Finishing 40:301+ Je '42

Metallizing pump rods and other machine parts. Oil & Gas J 41:44 O 29 '42

Metallizing restores packing journal. il Elec W 117:1838 My 30 '42

Metallizing saves time loss. il Paper Tr J 114:22 Ja 8 '42

Metallizing; some applications in gas plant maintenance. G. B. Johnson. il Am Gas J 157:16-18 Jl '42

Metallizing techniques for engine parts. il diags Diesel Power 20:739-42 S '42

New lease of life for wearing parts by gas welding; quick summary of resurfacing processes. Power 86:398-9 Je '42

New parts for old! New Orleans Public Service adapts metallizing process. il Transit J 86:284-6 Ag '42

Production metallizing; aluminum alloy airplane engine parts. H. E. Linsley. il Aero Digest 40:154, 159+ Ja '42

Rebuilt shaft on turbine. E. T. Parkinson. il Power 86:731-2 O '42

Reclamation helps the war effort; Philadelphia transportation company, Metal spray department. il Transit J 86:88-90 Mr '42

Roughening surfaces for metallizing. il diags Iron Age 150:50 N 12 '42

Rust protection; abstract. H. Silman. Metals & Alloys 16:776+ O '42

Salvage specifications; summarizing methods of reclaiming defective parts. il Product Eng 13:79-80 F '42

Shaft repaired with metal spray. L. E. Kunkler. il Power 86:269-70 Ap '42

Sprayed metal bearings. il Iron Age 149:52-3 Je 25 '42

Spraying of metals. W. E. Ballard. il Iron Age 149:50-4 My 21 '42

Surface treatment by diffusion; abstract. Metals & Alloys 15:306+ F '42

Turbine shaft repaired by metal spray process. il Power Pl Eng 46:91 Ag '42

METAL coating—*Continued*

Wartime care of mine equipment; repaired by electric and acetylene welding and metallizing. E. Schweitzer. il Min Cong J 28:20-2 Jl '42

Welding and metallizing mine equipment. E. Schweitzer. Coal Age 47:52+ Je '42

See also

Electroplating
Enamel and enameling
Galvanizing
Metal protection
Pipe coating
Plating

Cost

What about metal spray! rebuilding motor bus parts; with cost data. E. F. Theisinger. il Bus Transportation 21:266-8 Je '42

METAL coloring

Black rustproof finish for copper-plated parts; Electro-jetal process. Mach 48:159 D '41

Blackening copper; Ebonol C. Chem & Met Eng 49:142 Je '42

Direct blackening process for copper and copper alloys. Metal Finishing 40:139 Mr '42; Mach 48:160 Je '42

How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42

See also

Steel—Color

METAL construction

See also

Sheet metal work, Architectural
Steel construction

METAL containers. See Containers, Metal

METAL cutting

Abrasive cut-off wheels; where and how to use them. F. A. Upper. il Iron Age 150:48-51 S 10; 68-73 S 17 '42

Abrasive-disk cutting. A. F. Macconochie. il diags Steel 110:88+ Mr 9 '42

Cemented carbide tools; German practice. Automobile Eng 32:91-4 Mr '42

Coated abrasives, a tool. E. B. Gallaher. Metal Finishing 40:51-4+ Ja '42

Cutter research; abstract. O. W. Boston. Iron Age 149:71 Ap 2 '42

Dry machining of magnesium alloys; British practice. H. M. Garner. diags Iron Age 150:52-4 Jl 23 '42; Excerpts. Metals & Alloys 16:490+ S '42

Friction disks and hot saws; reference book sheet. diags Am Mach 86:351 Ap 16 '42

General shop gas and a.c. arc welding and cutting. R. F. Jennings. 84p bibliog(p82) $1 Grosset & Dunlap, New York '42

Get the most from carbide tools. R. B. Weeks. il diags Am Mach 86:158-61 Mr 5 '42

Hand fixture cuts fastener slots; North American Aviation. il Am Mach 86:675 Je 25 '42

How to use abrasive cutting. H. G. Robinson. il Am Mach 86:275-7 Ap 2 '42

Machinability; metallurgical factors that affect production. D. Taylor. il Automobile Eng 32:51-6 F '42

Machinability of cast iron, steel. E. K. Smith. Metals & Alloys 15:858 My '42

Machinability of ferrous castings. E. K. Smith. Mach 48:129-31 F '42

Machinability of steel and malleable-iron castings. E. K. Smith. il Mach 48:131-3 Mr '42

Machinability ratings and cutting fluids. W. L. Nelson. Oil & Gas J 40:66 My 7 '42

Machining non-ferrous alloys. il diags Engineer 173:412-14 My 15 '42

Manual of instructions in welding and cutting. B. E. Rossi. 99p $1 McGraw-Hill '41

Metal cutting forces; abstract. O. W. Boston. Iron Age 149:60 Ap 16 '42

Metal working. Metal Prog 42:736-40 O '42

One way to machine angular surfaces. F. H. Colvin. diags Am Mach 86:114 F 19 '42

Practical kinks on how to make it. G. Sykes. il Welding J 20:800-1 N '41

Recommended tool angles for carbide tools; data sheets. Mach 48:223 Jl; 119 Ag '42

Results from abrasive cutting. H. G. Robinson. il Am Mach 86:332-4 Ap 16 '42

Save time by machining turbine shaft in position; using 25-cycle power to motor a 60-cycle generator at low speed. F. I. Morgan. il Power 86:390-1 Je '42

Shutters and cutters; high-speed motion-picture photography used in study of machine-tool cutting edges. B. L. McKenzie. il Sci Am 166:60-2 F '42

Tipped high speed steel tools give improved performance. L. J. St Clair. diags Iron Age 150:52-5 Ag 6 '42

Why use abrasive cutting? H. G. Robinson. il Am Mach 86:206-8 Mr 19 '42

Working of high-nickel alloys; machining practice for high-nickel alloys. diags Am Mach 86:897-901 Ag 20 '42

See also

Broaching
Cutting tools
Drilling and boring (metal working, etc.)
Gear cutting
Lubrication and lubricants (cutting and grinding)
Machine tools
Machine work
Milling
Milling cutters
Oxyacetylene cutting
Saws, Metal working
Screw machines
Shears (machines)
Steel cutting
Thread cutting
Tool steel

Tables, calculations, etc.

Calculation of milling feeds and speeds; calculator devised to correlate large number of factors. il Iron Age 149:62 My 14 '42

Metal-cutting forces and power requirements for machine tools. O. W. Boston. Automotive & Aviation Ind 86:30-4 My 15 '42; Same. Machine Design 14:79-83 Je '42

Tool loads and carbide tools. P. H. Miller. Ry Mech Eng 116:110-11 Mr '42

METAL drawing

Aluminum can be deep drawn. C. C. Misfeldt. il diags Am Mach 86:285-9 Ap 2 '42

Brass cartridge cases drawn with cemented carbide dies. F. J. Oliver. il diags Iron Age 150:41-8 Jl 2 '42

Carbide dies for drawing and sinking metal tubing. E. Glen. diags Iron Age 150:64-5 Ag 27 '42

Cold-finishing steel bars and shafting. il Blast F & Steel Pl 30:568-9+ My '42

Deep drawing and pressing of magnesium alloy sheet; abstract. R. G. Wilkinson and D. B. Winder. Metals & Alloys 14:774 N '41

Deep drawing brasses. R. A. Wilkins and E. S. Bunn. charts Product Eng 13:102-4 F '42

Deep drawing may answer your production problems. K. D. Moslander. diags Machine Design 13:64-8+ D '41

Effect of some mill variables on the earing of brass in deep drawing; abstract. E. W. Palmer and C. S. Smith. Metal Prog 41:832-4+ Je '42

Evaluation of the drawability of thin metals. T. F. Mika. il Metal Prog 41:192-7 F '42

Forming-by-drawing; new mass-production process for producing compound curved surfaces in sheet metals. F. Anderson. il diags Aviation 41:82-5 Je; 162-3, 165-6 Jl '42

How metallurgy affects deep-drawing. K. D. Moslander. il Machine Design 14:60-5+ Ja '42

Measurement of drawing properties of aluminum sheet. G. A. Brewer and M. M. Rockwell. il diags Metal Prog 41:663-8 My '42

Mechanics of deep drawing sheet metal parts. G. Brewer and M. M. Rockwell. il diags Aero Digest 40:126+ F '42

Novel cold reducing mill; involving use of both rolling and drawing action. W. A. Phair. il diags Iron Age 149:76-7 My 7 '42

Problems in the drawability of deep drawing sheets. M. Asimow and J. N. Crombie. diags Am Soc for Metals Trans 30:639-89 bibliog(248 titles, p674-89); Discussion. 689-94 S '42

Some factors affecting the drawability of aluminum sheet. G. A. Brewer, V. N. Krivobok and M. M. Rockwell. il diags Metal Prog 42:62-5 Jl '42

METAL drawing—*Continued*

Speeding up deep drawing of aircraft parts; Misfeldt process, Vega airplane company. C. C. Misfeldt. il Aviation 41:64-5+ Mr '42

Standard drawing dies (carbide) for small ammunition. E. Glen. il diags Metal Prog 42:229-32 Ag '42; Same. Mach 49:172-4 S '42

Stress-strain relationships in the drawing of metals. G. A. Brewer and M. M. Rockwell. il diags Metal Prog 41:806-10 Je '42

Use of carbide dies for drawing special shapes. J. R. Longwell. diags Steel 110:80, 82 F 2 '42

Wedge-draw vs. tension test to determine drawability. G. A. Brewer. il Metal Prog 42:216-17 Ag '42

See also

Wire drawing

METAL finishing

Aircraft engine and metal finishes. M. A. Coler. 128p bibliog(p123-4) $1.50 Pitman '42

Aircraft metal finishing; abstract. E. R. Irwin and J. Teres. Iron Age 149:66, 123 Je 25 '42

Castings are painted before machining; American type founders inc. il Steel 111: 100+ Jl 13 '42

Chemical finishes for aluminum alloys. Iron Age 150:47-51 Jl 23 '42

Cleaning and finishing. Metal Prog 42:773-8 O '42

Coated abrasives, a tool. E. B. Gallaher. Metal Finishing 40:51-4+ Ja '42

Coating by the electric spray method. H. Ransburg. Metal Finishing 40:621-3 N '42; Abstract. Iron Age 149:62-3 Je 25 '42

Conveyors save space in aircraft plant; finishing operations on sheet-metal parts. F. M. Bates. il diags Am Mach 86:1244-9 O 29 '42

Dipping questionnaire. F. J. Manning. Metal Finishing 40:627-8 N '42

Engineering liaison and production control. D. U. Kudlich. S A E J 50:171-2 My '42

Finishes for aluminum die castings. A. E. Keskulla and J. D. Edwards. bibliog Am Soc T M Proc 41:931-40 '41; Same. Metal Finishing 40:220-4+ Ap '42; Abstract. Metals & Alloys 16:318+ Ag '42

Finishing and finishes, 1941 and current trend. R. M. Burns. bibliog il Metals & Alloys 15:60-2 Ja '42

Finishing defense products. F. V. Faulhaber. il Metal Finishing 40:228-30, 279-80, 283, 339-41 Ap-Je '42

Finishing magnesium die castings. H. W. Schmidt. Am Soc T M Proc 41:941-8 '41

Finishing of washing machines. C. Cleveland. il Metal Finishing 40:112, 114 F '42

Finishing of zinc-base alloy die castings. E. A. Anderson. Am Soc T M Proc 41:949-52 '41

Finishing sprayed metals. W. C. Reid. il diags Am Mach 86:1084-7 O 1 '42

Fixed burnishing. W. H. Young. il diags Iron Age 149:48-51 Ja 22 '42

Foster general-purpose superfinishing machines for cylindrical work. il Mach 49:234 N '42

Generating flat surfaces. E. V. Wait. diags Engineering 152:381-3 N 14 '41

Hanson-Van Winkle-Munning wire and Tampico brushes. il Metal Finishing 40:424-5 Ag '42

How smooth should a bearing surface be? E. L. Hemingway. il Iron Age 149:40-5 Ja 8 '42

How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42

Influence of temperature on lathes; compensation for misalignments essential when parts must be finished to close tolerances. G. Schlesinger. diags Am Mach 86:379-81 Ap 30 '42

Machined surfaces; superfinishing. diags Automobile Eng 32:319-20 Ag '42

Metal finish to substitute for plating; Platelustre. Sci Am 167:8 Jl '42

Near infra-red and metal finishing. P. H. Krupp. il Metal Finishing 40:389-93 Jl '42

New equipment; finishing apparatus. il Iron Age 149:64-8 F 26; 60-2 My 28; 72-4 Je 4 '42

New materials and finishes of 1941; with reference table. F. P. Peters. Metals & Alloys 15:82-90 Ja '42

Ohio universal superfinishing machine. il Engineering 154:226-7 S 18 '42

Optically flat surfaces on mass production basis; using stones made with micro-bond. Automotive Ind 85:46 D 1 '41

Plating and finishing guidebook. W. R. Meyer, ed. 11th ed 129p Metal industry pub. co, New York '42 [gratis to subscribers to Metal finishing]

Problems in finishing. Metal Finishing 40:508-9, 571, 623 S-N '42

Role of surface chemistry and profile in boundary lubrication. J. T. Burwell. S A E J 50:450-7 O '42

Shop problems. Published in monthly numbers of Metal finishing

Special shapes of coated abrasives speed production. il Aero Digest 41:170, 176, 178+ O '42

Surface finish of journals. R. W. Dayton, H. R. Nelson and L. H. Milligan. bibliog il diags Mech Eng 64:718-26 O '42

Surface roughness controlled by use of aircraft standard. J. W. Borgquist. il diags Product Eng 13:638-40 N '42

Surface treatments for magnesium; abstract. H. K. DeLong and W. H. Gross. Iron Age 150:68-9 Jl 2 '42

Technical developments of 1941. N. Hall. Metal Finishing 40:3-11 bibliog(246 references, p10-11) Ja '42

Technical progress paces victory march. Steel 110:326-9 Ja 5 '42

29th buyers reference number. il Am Mach 86:297-301 Ja 22 '42

Utility enamel finishes for light alloy castings. Iron Age 150:49-52 O 29 '42

Vague specifications for surface quality hamper aircraft production. C. F. Nagel, jr. il Metal Prog 41:323-9+ Mr '42

See also

Bonderizing
Grinding
Honing
Lacquer and lacquering
Lapping
Metal cleaning
Metal coating
Metal coloring
Metal protection
Pickling (metals)
Polishing
Sand blast
Steel—Finishing

Patents

Patent digest (cont). Metal Finishing 39: 676; 40:89, 136-7, 200, 256, 317, 368, 423, 444, 471, 532, 573, 603 D '41, F-N '42

Technical developments of 1941. N. Hall. Metal Finishing 40:3-11 bibliog(246 references, p10-11) Ja '42

Standards

Development of standards for army ordnance finishes. M. R. Norton. bibliog il Mech Eng 64:703-17 O '42

Surface roughness standards set by samples at General Electric. W. Mikelson. il diags Iron Age 150:56-8 S 10 '42

METAL foils

Behaviour of some metal foils in contact with milk. R. Kerr. Soc Chem Ind J 61:128-32 Ag '42

Changeover from foil to a substitute material for packaging photographic films; abstract. A. H. Livingston. Mod Packaging 15:80 My '42

Ross filter foils by evaporation. J. C. Clark and R. H. Esling. il R Sci Instr 13:383-6 S '42

Wrappers tested for moisture loss. G. W. McBride. Food Ind 14:46-7 Ap '42

See also

Aluminum foil
Gold leaf
Lead foil
Potassium foil
Tin foil

METAL fume fever

Health hazards in handling magnesium; gas gangrene and other industrial health hazards. W. Schweisheimer. il Iron Age 150:56-7 Jl 16 '42

METAL handling

See also
Sheet metal handling

METAL powders

Bessemer's start; producing powdered metals. Comp Air M 46:6624 D '41
Bounceless ball points way toward improved electrical units. il Sci Am 167:207 N '42
Coffee search fails, but points to better Diesel filter; made from powdered metal. Sci Am 166:176 Ap '42
Coming revolution in metals. J. J. Hipple. il Mag of Wall St 69:245-6 D 13 '41
Designing versatile press for powder metal parts. J. J. Kux. il diags Machine Design 14:59-62 O '42
Electrical contact problems. il Engineer 174:146-9 Ag 21 '42
Heavy alloy developed by the British General electric co. G. H. S. Price, S. V. Williams and G. J. O. Garrard. Metal Prog 41:337+ Mr '42
High-production high-economy methods for metal parts. D. Basch. il Gen Elec R 44:694-5 D '41
Homogenization of copper-nickel powder alloys. F. N. Rhines and R. A. Colton. bibliog diag Am Soc for Metals Trans 30:166-88; Discussion. 188-90 Mr '42
Industrial powder metallurgy. P. R. Kalischer. il diags Iron Age 149:41-6 F 5; 46-51 F 12 '42
Manufacture of articles from powdered metals. W. D. Jones. Engineering 152:515-16 D 26 '41
Metal powders; Moraine products division of General Motors; iron and steel scrap converted into iron powder; illustrations. Iron Age 149:49-53 F 19 '42
Metal working. Metal Prog 42:734-6 O '42
1941 conference on powder metallurgy. Metal Prog 40:785-8+ N '41
Powder metallurgy. W. J. Baëza. Metals & Alloys 15:263-4 F '42
Powder metallurgy. F. C. Kelley. il diags Elec Eng 61:468-75 S '42; Same cond. Automotive Ind 85:34, 56+ D 15 '41
Powder metallurgy; a composite of abstracts. bibliog Metals & Alloys 15:1025-6+ Je '42
Powder metallurgy assumes an important role. Mach 48:138 Mr '42
Powder metallurgy; 1941 model; report of the M.I.T. summer conference. Metals & Alloys 14:721-2, 724+ N '41
Powder metallurgy of tin; manufacture and uses of tin and tin alloy powders; with list of patents. H. C. Watkins. bibliog il Metals & Alloys 15:751-7 My '42
Powder metallurgy; rapid expansion and importance in war economy. J. Geschelin. il Automotive & Aviation Ind 86:28-31+ Je 1 '42
Powder metallurgy; some developments. Automobile Eng 32:401-2 O '42
Powder, pressure, and heat; powder metallurgy. il Fortune 25:44-7+ Ja '42
Powdered metal particle size quickly measured. il Iron Age 150:45 Ag 20 '42
Powdered metal product used for filtration and flow control; Porex. il Mach 48:155 F '42
Powdered metals in machine design. il Mach 48:111-18 Ag; 49:148-52 S '42
Practical aspects of bearing design; basic materials. E. B. Etchells and A. F. Underwood. il diag Machine Design 14:76-7 O '42
Production of high-density parts by powder metallurgy increases. C. Hardy and G. D. Cremer. il Min & Met 23:509-11 O '42
Sintered metals in friction devices. E. F. Cone. bibliog il diag Metals & Alloys 14:843-50 D '41
Sintered parts; progress in fabrication from compressed porous powders. Automobile Eng 32:266-8 Jl '42
Some properties of sintered and hot-pressed copper-zinc powder compacts. C. G. Goetzel. bibliog il Am Soc for Metals Trans 30:86-117 Mr '42; Abstract. Metals & Alloys 15:158+ Ja '42; Discussion. Am Soc for Metals Trans 30:117-23 Mr '42
Vacuum aids formation of powder metallurgical compacts. C. Hardy. diag Steel 110:84+ Ja 19 '42

See also
Bronze powders
Iron, Powdered

Terminology

Glossary of powder metallurgy. C. Hardy. Eng & Min J 143:69 Ja '42
Terms used in powder metallurgy. il Metal Prog 41:44-6 Ja '42

METAL products

Production of high-density parts by powder metallurgy increases. C. Hardy and G. D. Cremer. il Min & Met 23:509-11 O '42

See also
Castings
Forgings

METAL progress (periodical)

Metal progress in high schools. E. G. Mahin. Metal Prog 42:397 S '42

METAL protection

Aircraft metal finishing; abstract. E. R. Irwin and J. Teres. Iron Age 149:66, 123 Je 25 '42
All-American package competition; award to General vault products co.; metal protective equipment. il Mod Packaging 15:176-7 Ap '42
Anodic and surface conversion coatings on metals. J. D. Edwards. il Electrochem Soc Trans 81 (preprint 18):251-67 bibliog (42 titles, p265-7) Ap '42
Automatic Parkerizing machine. il Metal Finishing 39:678 D '41
Cathodic protection. R. H. Brown and R. B. Mears. il diags Electrochem Soc Trans 81 (preprint 19):269-95 bibliog (73 references, p294-5) Ap '42
Chrome-hardening of cylinder bores. H. Van der Horst. diag Mech Eng 63:536-9+ Jl '41; Discussion. 64:395-6 My '42
Coating protects metal or refractory parts against ravages of extreme heat. Concrete (mill sec) 50:259 O '42
Corrosion study of bolting materials and coatings. O. A. Halvorson. Am Water Works Assn J 34:76-84 Ja '42
Denmark discovers rust-proofing treatment. For Comm W 7:22 Je 6 '42
For better paint; methods of testing surface coatings for metals. il Sci Am 166:76-8 F '42
Hard chromium plating. A. Fletcher. Metal Finishing 40:355-8 Jl '42
How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42
Magnesium alloy processing. J. P. ApRoberts. bibliog diags Metal Finishing 40:84-7 F '42
Metal shortages and their effect on line hardware; report of the line hardware subcommittee, EEI. E. H. Kendall. Edison Elec Inst Bul 9:459-61 N '41
Oil versus rust; castor oil as preventive. Nat Safety N 46:76 S '42
Protective coating, Chempruf. Gen Elec R 45:596 O '42
Protective coatings; abstract. R. R. Rogers. Can Chem & Process Ind 26:316 My '42
Protective coatings for metal. Sheet Metal Worker 33:27-8 Ap; 24 My '42
Protective coatings in steam plants. A. K. Ingraham. Elec W 117:676+ F 21 '42
Repairing roofs without priority materials; two sprayed on coatings of transparent mastic and slate granules. il Sheet Metal Worker 33:27-8+ O '42
Rust protection studied; abstract. E. A. Gulbransen. il Blast F & Steel Pl 30:461 Ap '42
Soil-corrosion studies, 1939; coatings for the protection of metals underground. K. H. Logan. J Research Nat Bur Stand 28:57-71 Ja '42
Technical developments of 1941. N. Hall. Metal Finishing 40:3-11 bibliog(246 references, p10-11) Ja '42
Thin but tough, Marlox. R Sci Instr 13:90 F '42

METAL protection—*Continued*

Transparent coating protects metal items; Protektol stripping lacquer. il Steel 111:82 Ag 10 '42

Two layers of plated metals to replace galvanizing; corronizing process. Sci Am 166: 63-4 F '42

Zinc tetroxy chromate; a rust-inhibitive primer pigment. W. W. Kittelberger. bibliog il Ind & Eng Chem 34:363-72 Mr '42

See also

Aluminum—Protection
Bonderizing
Chromium plating
Corrosion and anticorrosives
Electroplating
Enamel and enameling
Galvanizing
Ihrigizing process
Metal coating
Paint, Protective
Pipe coating
Pipe lines—Protection
Rubber lining
Steel—Protection

METAL spinning

50 metal-spinning projects for craftsmen, instructors, and students. J. E. Reagan and E. E. Smith. 110p $1.75 Bruce pub. '41

Industrial metal spinning. G. F. Sullivan. il diags Iron Age 150:43-8 Jl 16 '42

Spinning of monel and nickel sheet. Engineering 153:430 My 29 '42

Spinning tool uses ball bearings. J. H. Burkam. diag Am Mach 86:1020 S 17 '42

METAL spraying. See Metal coating

METAL trade

See also

Aluminum industry and trade
Copper industry and trade
Hardware industry and trade
Iron industry and trade
Lead industry and trade
Mercury industry and trade
Metal workers
Metals—Prices
Metals, Non-ferrous
Scrap metal
Sheet metal trade
Steel industry and trade
Tin industry and trade
Tin plate
Zinc industry and trade

Directories

Metal finishing buyers directory, 1942. rev ed 126p Metal industry pub. co, New York '42

Finance

Appraising the metal companies. Barron's 22:13 Je 29 '42

Measuring profits for metals under today's conditions. J. C. Clifford. il Mag of Wall St 70:72-4+ My 2 '42

Mixed outlook for metals; position of leading stocks. Mag of Wall St 69:549-51+ F 21 '42

Profit and dividend drop expected in mining group; position of leading metal stocks. il Mag of Wall St 70:497-9 Ag 22 '42

SEC issues two industry reports; oil refining and non-ferrous metals industries. Comm & Fin Chr 155:118 Ja 8 '42

Statistics

Ferro-alloy metals, 1941. F. Betz, jr. and others. Eng & Min J 143:47-9 F '42

Metal statistics, 1942. 35th annual ed 736p $2 Am. metal market co, 111 John st, New York '42

Minor metals, 1941. Eng & Min J 143:50-2 F '42

See also

Metals, Non-ferrous—Statistics

Australia

Metal production in Australia. Economist 143:174 Ag 8 '42

Canada

Canadian metal supplies. Engineering 153:472 Je 12 '42

Report on miscellaneous metals in Canada, 1940. 34p pa 50c Canada. Dominion bur. of statistics, Ottawa '41

What! no sundials? Roads & Bridges 80: 31+ S '42; Same cond. Water & Sewage 80: 21+ S '42

Great Britain

Development of Britain's metal resources. Economist 142:118 Ja 24 '42

Economy in the use of non-ferrous metals; following statement prepared by the non-ferrous metals control. Engineer 174:235 S 18 '42; Same. Metal Prog 42:1094+ D '42

Non-ferrous metals in 1941. Economist 142: sup22+ Mr 14 '42

Peru

Production of nonferrous metals in 1941; tabulation. For Comm W 7:20 Ap 11 '42

United States

Bonus for metals in excess of 1941 production. Business Week p65-6 Ja 17 '42

Deadlines on principal monthly reports to OPM on metals. Iron Age 148:98-9 N 13 '41

Effect of metal shortages on war. D. M. Nelson. Iron Age 150:93-5 Jl 2 '42

Frozen and idle metals stocks will be redistributed by War production board. Steel 111:48+ O 12 '42

Great western mineral vault; war problems and the metal supply. O. Murdock. Iron Age 150:93-4, 97 O 1 '42

How to dispose of frozen metal stocks; Schedule A, metals section, relates to special sales made under priorities regulation no. 13. Iron Age 150:108A-108B, 109 Jl 16 '42

Large increases in war metals production. Comm & Fin Chr 155:1447 Ap 9 '42

Metal prices in two wars. Min & Met 23:367-9 Jl '42

Metals in 1941. T. W. Lippert. il Iron Age 149:48-57, 159+ Ja 1 '42

Putting surplus metals from peacetime manufacture into vital war production. A. H. Phelps. Steel 111:66+ Ag 3 '42

Some other achievements in the metal industries. E. F. Cone. il Metals & Alloys 16: 630-3 O '42

Supply of metals for national defense. Z. Jeffries. il Metal Prog 40:747-51 N '41; Same. Science 95:443-6 My 1 '42

METAL waste

Briquetting plant for metal swarf, William Johnson and sons, Leeds. il diags Engineering 152:306-8, 310, 366-8, 426-7 O 17, N 7, 28 '41

Chip-handling system; Wright aeronautical corp. M. E. Nevils. il Steel 111:84-5, 88 O 26 '42; Same cond. Automotive & Aviation Ind 87:11+ O 15 '42

Colored V's used to match machines and scrap metals in Wright salvage system. il Steel 110:59 My 4 '42

Designing to reduce scrap. il diags Product Eng 13:236-45 Ap '42

Grinding and slag dumps. G. W. Jarman, jr. Mech Eng 64:458-9 Je '42

Reclaiming cutting oils and chips; the Bullard company, Bridgeport, Conn. R. D. Bullard. il Factory Management 100:107-8 Ag '42

Reclaiming metal scrap from floor sweepings; reclamation plant of Westinghouse electric & mfg. co. W. A. Phair. il plan Iron Age 149:41-4 Ja 29 '42

Reclaiming metals and alloys from industrial wastes. W. E. Keck and F. A. Paciotti. Eng & Min J 143:50 Ja '42

Recovering brass from metal waste; treatment of buffings, grindings and metallic dust. A. G. Arend. il Chem Age (Lond) 47:227-9 S 5 '42

Winning the war on waste; Timken roller bearing company. il Factory Management 100:77-82 Jl '42

See also

Scrap metal
Slag
Tailings

METAL work

Flame-processing; flame-hardening, flame-softening, flame-cutting, flame-scarfing, flame-cleaning, etc.; composite of abstracts. Metals & Alloys 15:148+ Ja '42

Manufacturing processes. M. L. Begeman. 579p $4.50 Wiley '42

METAL work—*Continued*

Metals and Alloys announces an annual award for engineering achievement in the metal industries. Metals & Alloys 16:598 O '42

Metalworking made easy. W. J. Becker. 135p bibliog(p133-4) $1.63 Bruce pub. '42

Modern assembly processes. J. L. Miller. 168p 13s 6d Chapman & Hall, London '41

Some problems involved in the manufacture of dense powder metallurgy parts; abstract and discussion. R. P. Seelig. diags Metals & Alloys 14:721-2 N '41

Technical progress paces victory march. Steel 110:271-342 Ja 5 '42

Working of high-nickel alloys. diags Am Mach 86:885-904 Ag 20 '42

See also

Aluminum work
Brass founding
Bronze
Bronze founding
Dies
Electroplating
Extrusion process
Forging
Foundries
Foundry practice
Heat treatment
Machine shop practice
Machine tools
Metal coloring
Metal cutting
Metal drawing
Metal working industries
Metals, Cold working of
Plating
Polishing
Rolling (metal work)
Sheet metal work
Solder and soldering
Stamping
Steel work
Tin plate
Welding

Bibliography

Metallurgical engineering digest; ferrous and non-ferrous; important developments in the world of metals. Published in monthly numbers of Metals and alloys

What's new in manufacturers' literature; metals, metal work, equipment, etc. Metal Prog 41:106, 108, 110 Ja '42 [cont monthly]

Working with metals [folder]. Public library, Business and industrial dept, 120 W. Wayne st, South Bend, Ind.

METAL work, Architectural

See also

Copperwork, Architectural
Sheet metal work, Architectural

METAL work, Artistic

Art metalwork; a manual for amateurs. E. F. Kronquist. 204p bibliog(p199) $2.75 McGraw-Hill '42

Jewelry, gem cutting, and metalcraft. W. T. Baxter. 2d ed 287p bibliog(p280) $2.75 McGraw-Hill '42

METAL workers

Better wage indices for metalworking plants. C. C. Balderston. Mech Eng 64:291-3; Discussion. 293-4+ Ap '42

Dangers connected with the handling of metals; abstract. R. A. Kehoe. Science 96: sup8 O 30 '42

Draft boards asked to consider skills, training of metals workers. Steel 111:45 N 2 '42

Earnings and hours in mining and milling of nonferrous metals, August 1941. H. Ober, J. Loft and A. C. Lakenan. Monthly Labor R 54:1374-95 Je '42

Earnings in metal trades. Economist 143: 185 Ag 8 '42

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Earnings in primary fabrication of nonferrous metals, 1941. H. Ober and J. Loft. Monthly Labor R 55:314-34 Ag '42

Earnings in the smelting and refining of nonferrous metals, August 1941. H. Ober and J. Loft. Monthly Labor R 55:129-47 Jl '42

Joint labor-management committees established by steel, metals firms. Steel 110:16-17 Mr 30 '42

School system aids industrial training; Peoria schools cooperate in training Le-Tourneau employees. W. J. Brooking. il Iron Age 150:52-5 S 3 '42

See also

Foundries—Employees
Machine shops—Employees
Machine works—Employees
Steel workers

METAL working industries

Earnings in primary fabrication of non-ferrous metals, 1941. H. Ober and J. Loft. Monthly Labor R 55:314-34 Ag '42

See also

Foundries
Machinery industry
Sheet metal trade

Advertising

Keep the whistle blowing! Lyon metal products goes after defense orders. il Am Business 11:12-13+ D '41

Directories

Stampings, forgings, die castings producers, etc; directory. Machine Design 14:166-84 O '42

Germany

Need for substitutes spotlights developments in Germany. Steel 109:68 D 29 '41

United States

Controlled materials plan is revealed; effective in 2d quarter. Iron Age 150:141-4 N 5 '42

Industries speeding up in greatest production race in history. B. K. Price. il Steel 110: 220-5+ Ja 5 '42

Metal working groups face survival test. D. R. James. Iron Age 149:80-4 Ja 1 '42

Metalworking industry advisory committees appointed by WPB. Steel 110:52 Ap 20 '42

Most drastic regulation in American history to change face of industry. Steel 110:42-3 Ap 13 '42

Price section for the metals, metalworking and allied industries; corrected to Feb. 9, 1942. Iron Age 149:1-19 sec 2 F 12 '42

Scores of metalworking companies honored for excellent performance; E flag recipients. il Steel 111:22-3+ Ag 31 '42

Shortages hit appliances. Steel 110:420-1 Ja 5 '42

Spring manufacturer awarded $360,000,000 in armor plate orders; company accepts responsibility for subcontracting to 15 former competitors. Steel 110:30 Mr 23 '42

Technical progress paces victory march. Steel 110:271-342 Ja 5 '42

War demands blanket country's basic industries. il Steel 110:232-5, 406-24 Ja 5 '42

War work for idle plants; auto part makers find jobs; metal working manufacturers committee. R. G. French. il Am Business 12:26-8 Ap '42

METAL working machinery

See also

Forging machinery
Grinding machines
Lathes
Machine tools
Presses
Rolling mills
Sheet metal working machinery
Straightening machines

METAL working plants

DPC, stakeholder; agency is outright owner of third of nation's metal-working capacity. Business Week p20+ Ap 11 '42

Efficient industrial salvage. F. P. Peters. il Metals & Alloys 16:249-52 Ag '42

Metallurgical engineering conversion to war production. H. R. Clauser and others. il diags Metals & Alloys 15:763-78, 979-87 My-Je '42

New plants of 1941; airplane engine crankshafts. il Factory Management 100:B39-B41 Ap '42

Plant salvage practice; a symposium. il Metals & Alloys 16:253-66 Ag '42

See also

Foundries
Iron works
Machine shops
Machine works
Metallurgical plants
Rolling mills
Steel works

Employees

See Metal workers

METAL working plants—*Continued*

Equipment

Better handling broke a bottleneck; parts ride portable elevators right into the box that carries them to the next operation; King-Seeley corporation, Ann Arbor. W. J. Pearse. il Factory Management 100:84-5 Je '42

Manufacturers' literature. Published in monthly numbers of Metals and alloys

New equipment; finishing apparatus. il Iron Age 149:64-8 F 26 '42

New equipment; small tools and gages. il Iron Age 149:70-3 Mr 12; 60-2 Mr 19; 72-4 Mr 26 '42

New ideas, methods, Johnson motors. H. E. Fleming. il Steel 109:76, 79 N 17 '41

Show in print; new equipment; accessories and materials on display at National metal show, Cleveland, Oct. 12-16; with list of exhibits. il Am Mach 86:1064-74 O 1 '42

Small-part storage equipment. il Engineering 152:337 O 24 '41

Spring making facilitated by mechanized handling. C. W. Bartlett. il diags plan Steel 110:85, 88+ F 16; 66, 68+ F 23 '42

29th buyers reference number. il diags Am Mach 86:81-356 Ja 22 '42

Where-to-buy section; manufacturers of metals and metal working equipment. Metal Prog 41:C3-C34 Je '42

Plastics departments

Plastics in a metal plant; department installed by Metal specialty co. W. F. Sherman. il Iron Age 149:59-62 F 26 '42

Safety measures

Hot work; heat-treating and carburizing operations require trained men and protective equipment. J. H. Heath. il Nat Safety N 45:20-1+ Ja '42

METALATION

Alkyl carbonates in synthetic chemistry; alkyl carbonates as solvents for metalation and alkylation reactions. V. H. Wallingford, M. A. Thorpe and A. H. Homeyer. bibliog Am Chem Soc J 64:580-2 Mr '42

Metalation of triphenylarsine. H. Gilman and C. G. Stuckwisch. Am Chem Soc J 63:3532-3 D '41

METALLIC films. See Films, Metallic

METALLOGRAPHIC specimens

Storage of metallographic specimens. il Metal Prog 41:651-4 My '42

METALLOGRAPHY

Alloys of manganese and copper; microstructure. R. S. Dean, C. T. Anderson and J. H. Jacobs. bibliog il Am Soc for Metals Trans 29:881-98 D '41

Comparison of X-ray line breadth and internal friction for alpha-brass as affected by cold-working and annealing. F. Niemann and S. T. Stephenson. bibliog Phys R 62:330-3 O 1 '42

Deep etching in metallurgical investigations. G. W. Walker. il Iron Age 149:45-51 Ap 2 '42

Films of thickness tenth length of yellow light waves found best for showing metal details in electron microscope. Blast F & Steel Pl 30:876 Ag '42

How metallurgy affects deep-drawing. K. D. Moslander. il Machine Design 14:60-5+ Ja '42

Interconversion chart, atomic to weight per cent. R. P. Dunn. Metal Prog 40:898, 900-1 D '41

Interpretation of X-ray diffraction diagrams and evidence of mosaic structures. N. P. Goss. il Am Soc for Metals Trans 29:987-92; Discussion. 992-1001 D '41

Investigation of welding problems through metallurgy. L. L. Wyman. il Iron Age 150:37-9 O 29 '42

Macrographic examination of metals; abstract. N. Metcalf. Metals & Alloys 15:703 Ap '42

Metallographic study of the formation of austenite from aggregates of ferrite and cementite in an iron-carbon alloy of 0.5 percent carbon. T. G. Digges and S. J. Rosenberg. bibliog il J Research Nat Bur Stand 29:113-21, pl 1-11 Ag '42

Metallurgical and industrial radiology. K. S. Low. 88p $3 Pitman '40

Method of sampling for metallurgical test pieces. C. T. Eakin. il diag Metal Prog 42:207-8 Ag '42

Microscope reveals secrets of important metal alloys: abstract. D. Harker. Blast F & Steel Pl 30:sup44 Ap '42

Nails from ruins of St Pierre; examined for evidence of conditions existing in the nuée ardente. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:208-11 F '42

Nickel-molybdenum system. F. H. Ellinger. il Am Soc for Metals Trans 30:607-37; Discussion. 638 S '42

Practical microscopical metallography. R. H. Greaves and H. Wrighton. 3d ed rev & enl 272p $5.50 Van Nostrand '41

Proposed phase diagram notation. J. S. Marsh. Metal Prog 41:87-8 Ja '42

Single crystals, metallurgical paradox. F. T. Sisco. Min & Met 23:514 O '42

Snowflakes and metallography; method of making snow crystal replicas used for making films for electron microscope studies. il Mech Eng 64:560-1 Jl '42

Some properties of sintered and hot-pressed copper-zinc powder compacts. C. G. Goetzel. bibliog il Am Soc for Metals Trans 30:86-117; Discussion. 117-23 Mr '42

Structure of alloys. W. Hume-Rothery. Metal Prog 41:186+ F '42

X-ray diffraction as a method of identifying metal alloys. L. L. Wyman. il diags Steel 109:70-2 D 22; 62-3+ D 29 '41

X-ray investigation of iron-nickel-chromium alloys. A. J. Bradley and H. J. Goldschmidt. bibliog Iron & Steel Inst J 144:273-83; Discussion. 284-8 no 2 '41

X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research Nat Bur Stand 29:177-81, pl 1-4 Ag '42

See also

Alloys
Aluminum—Metallography
Copper—Metallography
Iron—Metallography
Metallographic specimens
Metals—X ray inspection
Steel—Metallography

METALLURGICAL analysis

Analysis of indium alloys. C. W. Hopkins. bibliog Ind & Eng Chem Anal ed 14:638-9 Ag 15 '42

Check-analysis instrument for alloys. il Blast F & Steel Pl 30:372-3 Mr '42

Chemical analysis by X-ray diffraction. M. L. Fuller. il Iron Age 149:65 Ap 9 '42

Colorimetry in metallurgical analysis. R. W. Silverthorn and J. A. Curtis. il Metals & Alloys 15:245-8 F '42

Contact print method; determination and localization of metallic minerals. G. Gutzeit. bibliog il Can Min J 63:437-44 Jl '42

Electro-chemical analysis. R. H. Powell. il diag Elec R (Lond) 130:109-11 Ja 23 '42

Electrographic analysis. E. A. Arnold. il Steel 110:74-6 Ap 20 '42

Fluorescent light; the prospector's new tool; ultra-violet lamp aids in determining presence of scheelite and other minerals. R. Hamilton. il Min Cong J 28:52-3 Ap '42

Herman's method for the determination of mercury; ultraviolet lamp and fluorescent screen used. J. M. Samuel. il Eng & Min J 143:58-9 Je '42

Lecture on the use of the Spekker photoelectric absorptiometer in metallurgical analysis. E. J. Vaughan. 48p bibliog(p48) Inst. of chemistry of Great Britain and Ireland, London '41

Metal analyst; a review of selected apparatus for metallurgical testing. 98p bibliog(p73-90) Adolph I. Buehler, 228 N. La Salle st, Chicago '39

METALLURGICAL analysis—*Continued*

Metallurgical spectrography. G. E. Haddeland. il diags Can Min J 62:819-25 D '41

Method of sampling for metallurgical test pieces. C. T. Eakin. il diag Metal Prog 42:207-8 Ag '42

New instrument for alloy check-analyses; Identometer. Iron Age 149:36+ Ja 15 '42

Polarographic analysis; a review for the metallurgical analyst. A. C. Coates and R. Smart. bibliog il Chem & Ind 60:778-84 N 1 '41

Radiographic examination and spectrography, 1941. H. M. Sullivan. Min & Met 23:116 F '42

Reference tables of rapid scrap-identification tests. Metals & Alloys 16:264-5 Ag '42

Silicon, manganese, chromium, iron, and copper in a nickel-base alloy; an aliquot method for routine analysis of an electrical heat-resisting alloy. L. Silverman. Ind & Eng Chem Anal ed 14:554-5 Jl 15 '42

See also

Aluminum—Analysis
Copper—Analysis
Iron—Analysis
Lead—Analysis
Manganese—Analysis
Metals—Analysis
Mineralogical analysis
Silver—Analysis
Steel—Analysis
Zinc—Analysis

METALLURGICAL apparatus

See also

Ball mills
Classifiers
Crushing machinery
Furnaces, Metallurgical
Magnetic separators
Metallurgical plants—Equipment
Thickeners
Tube mills

METALLURGICAL furnaces. See Electric furnaces, Metallurgical; Furnaces, Metallurgical

METALLURGICAL laboratories

Cleanliness achieved in new crushing laboratory; Richards mineral dressing laboratory at M.I.T. R. Schuhmann, jr. il diags plan Eng & Min J 143:59-61 S '42

Du Pont co. opens new laboratory for study and solution of problems in metal treatment and electroplating. il Metal Finishing 40:18 Ja '42

General Electric equips new steel foundry laboratory. Blast F & Steel Pl 29:1201 D '41

Laboratory control for Ranger engines. C. B. F. Macauley. il Aviation 40:108-9, 190+ D '41

New alloys laboratory exhales to keep out dust and gas; Vanadium corp. of America. il Steel 110:58 My 4 '42

New mineral dressing curriculum and laboratories at M.I.T. A. M. Gaudin. il Min & Met 23:376-7+ Jl '42

METALLURGICAL patents

Precipitation of gold from cyanide solution by zinc dust. R. Leblanc. bibliog diags Can Min J 63:213-19, 297-306 Ap-My '42

See also

Magnesium—Patents

METALLURGICAL plants

Development of the flowsheet for the Morenci concentrator. E. Wittenau and B. H. Cody. flow sheets Min & Met 23:262-4 My '42

Metallurgy of copper, 1941. A. E. Wheeler and H. Y. Eagle. il Min & Met 23:75-6 F '42

Morenci reduction works. C. W. Dunham; J. H. Johansen; A. C. Babcock. il diags plans Min & Met 23:283-92 My '42

Tri-state today. T. L. Wells. il map Explosives Eng 19:328-34 N '41

See also

Blast furnaces
Cyanide plants
Iron works
Ore treatment
Smelting works
Steel works

By-products

Metalliferous by-products; treatment of poor-grade materials. C. C. Downie. Chem Age (Lond) 45:289-90 D 6 '41

Costs

Ore treatment and costs at McMarmac Red Lake gold mines limited. J. E. Bryans. flow sheet il Can Min J 63:423-33 Jl '42

Electric equipment

Controlling flotation reagents automatically; Cuban-American manganese plant. F. Trotter. il plan Eng & Min J 142:45-6 N '41

Electric equipment for large electrochemical installations. T. R. Rhea and H. H. Zielinski. bibliog il diags Elec Eng 61:Trans 733-41 O '42

Suspended buses carry heavy current; Aluminum co. of America. L. N. Greer and L. T. Guess. il Elec W 116:1889 D 13 '41

Employees

See Metal workers

Equipment

Advances in milling methods, 1941; coarse concentration. W. L. Zeigler. Min Cong J 28:69-71 F '42

Advances in milling methods, 1941; current fine grinding practice and recent developments in equipment. R. Hatch. Min Cong J 28:67-9 F '42

Advances in milling methods, 1941; reduction crushing. M. W. Bowen. diag Min Cong J 28:65-7 F '42

American copper mine and reduction works; Morenci district of Arizona; Phelps Dodge corporation. plans Engineer 174:99-100, 120 Jl 31-Ag 7 '42

At the Cochenour Willans mill; amalgamation, cyanidation, and flotation. O. Mathews. flow sheets il Eng & Min J 143:45-8 Mr '42

Design of storage bin for crushed ore; Morenci mine. C. W. Dunham. il diag Min & Met 23:268-9 My '42

Design of the primary crushing plant; Morenci mine. L. R. MacLeod. il diag Min & Met 23:265-8 My '42

Greater strength in wooden filter screen. X. H. Zieman. diag Can Min J 62:839-40 D '41

Lode gold mine in Colombia. F. K. Wilson and B. F. Darnell. flow sheet il Eng & Min J 143:58-62 My '42

Mammoth-St Anthony's complex operations; gold, silver, lead, molybdenum, and vanadium recovered from low-grade gold ore. J. B. Huttl. flow sheets il diag Eng & Min J 142:42-5 D '41

Mine equipment, 1941. H. C. Chellson. Eng & Min J 143:96-8+ F '42

Mining quicksilver in Nevada. S. H. Williston. il diag Min Cong J 28:24-8 N '42

Morenci concentrator. A. P. Svenningsen. flow sheet il diag plan Min & Met 23:272-7 My '42

Open-pit gold mine in Nevada. J. B. Huttl. flow sheet il Eng & Min J 142:58-9 D '41

Progress reports, Metallurgical division; cinnabar-reduction plants of the southwestern Arkansas quicksilver district. S. M. Shelton and W. A. Calhoun. pls map U S Bur Mines Rep of Invest 3627:1-24 '42

Pumps for magnesium reduction plant. Power Pl Eng 46:59 Mr '42

Review of certain unit processes in the reduction of materials. J. C. Farrant. il diags Inst Chem Eng Trans 18:56-80; Discussion. 80-6 '40

Roasting improves gold recovery at Getchell mine. F. Wise. flow sheet il Min Cong J 28:48-51 Ap '42

Secondary crushing plant; Morenci mine. A. P. Svenningsen. il diags Min & Met 23:270-1 My '42

Tungsten; its occurrence, chemistry, use and metallurgy. D. C. McLaren. flow sheets Can Min J 63:634-8 O '42

Underflow indicator. diags Eng & Min J 143:69-70 Je '42

When designing launders; how to eliminate bottom-wear and insure against clogging. W. E. Wilson. bibliog diags Eng & Min J 143:56-7 Ap '42

See also

Classifiers
Furnaces, Metallurgical
Thickeners

METALLURGICAL plants—*Continued*

Layout

General layout of the reduction works at Morenci. W. Jurden. il plans Min & Met 23:258-61 My '42

Power

Aluminum output reaches for new power. T. N. Sandifer. Pub Util 29:490-4 Ap 9 '42
Ark-La case referred to national war agencies; Arkansas utility commission finds that Grand River generation and transmission system to aluminum plant is waste. Elec W News ed 117:151 Ja 17 '42
Ark-La line in Arkansas gains approval of WPB; power for aluminum plant. Elec W News ed 117:416 Ja 31 '42
Can off-peak power be used in chemical industries? C. G. Fink. Elec W 116:1559+ N 15 '41
Capacitors save $6900 in first year of operation. Power Pl Eng 46:72 Ag '42
Copper saved to make magnesium; busbar and feeder system for the electrolytic plant located at Basic magnesium, inc. il Elec West 89:48-50 O '42
Electrothermal ferro-alloy production in Brazil. W. A. Darrah. Electrochem Soc Trans 81 (preprint 29):431-8 Ap '42; Excerpts. Chem & Met Eng 49:206-8 S '42
Hydro for aluminum, highest head in East; Glenville and Nantahala plants. J. E. Housley. il diags map Elec W 116:1560-2 N 15 '41
Load control cuts peaks. J. V. Alfriend, jr. Power Pl Eng 46:88-9 Ag '42
More power for bomber production; two dams being constructed by the Aluminum company of America. il diag Eng N 128:334-7 F 26 '42
REA wins fight to serve aluminum plant. Elec W News ed 116:1966 D 20 '41
Steam power plant and electrical distribution; Morenci mine. B. F. Koch and S. F. French. il diag Min & Met 23:293-6 My '42
Unusual provision in Bonneville deal; contract to supply 97,500 kw. to aluminum plant. il Elec W News ed 117:907 Mr 14 '42
War plant line record is tower per day; aluminum reduction plant being built in Los Angeles. il Elec West 89:65-7 S '42
WPB plans added 24-hour loads on generators; new aluminum and magnesium production program. Elec W 117:823-4 Mr 7 '42
Water-power and the production of metals. W. T. Halcrow. Engineering 153:458-9, 464, 484-6 Je 5-19 '42; Same cond. Engineer 173: 423-5, 443-4 My 22-29 '42; Abstract. Elec R (Lond) 130:655-6 My 22 '42

Waste

Filtering cyanide slimes. E. C. Bitzer. diags Eng & Min J 143:60-3 Je '42
Making a mine dump give to the war effort; with cost data. J. R. Villars. il Min Cong J 28:21-3 N '42

METALLURGICAL research

Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42
Electron microscope in metallurgy. F. T. Sisco. il Min & Met 23:430-1 Ag '42
Metallurgical research; results of eighteen months' operation of Metals and minerals advisory committee of War metallurgy committee. Science 96:42-3 Jl 10 '42; Same. Chem & Eng N 20:976+ Ag 10 '42
Metallurgy fights on two fronts. B. W. Corrado. bibliog il Iron Age 149:102-11+ Ja 1 '42
Mines bureau to build $350,000 pilot plant for gas reduction of zinc ores. Steel 111:54 Ag 10 '42
Progress in engineering knowledge during 1941; metallurgy. P. L. Alger. bibliog il diags Gen Elec R 45:89-91 F '42
Progress reports, Metallurgical division; annual report of the Metallurgical division, fiscal year 1941. R. S. Dean. bibliog flow sheets pls U S Bur Mines Rep of Invest 3600:1-70 '41
Rheotron, an important new research tool. il Steel 110:78 Je 15 '42
War metallurgy committee will co-ordinate research activities. Steel 111:72-3 Jl 6 '42; Am Cer Soc Bul 21:159-60 Ag 15 '42

See also

Corrosion research
Iron research
Ore testing
Steel research

METALLURGISTS

See also

Stoughton, Bradley

METALLURGY

A.S.M.E. talks metallurgy; summaries of annual meeting papers. J. S. Marsh. Metal Prog 41:73-4 Ja '42
Elementary metallurgy. W. T. Frier. 207p $1.75 McGraw-Hill '42
How metallurgy affects deep-drawing. K. D. Moslander. il Machine Design 14:60-5+ Ja '42
Mammoth-St Anthony's complex operations; gold, silver, lead, molybdenum, and vanadium recovered from low-grade gold ore. J. B. Huttl. flow sheets il diag Eng & Min J 142:42-5 D '41
Metalliferous by-products; treatment of poor-grade materials. C. C. Downie. Chem Age (Lond) 45:289-90 D 6 '41
Metallurgy. C. G. Johnson. rev ed 262p bibliog(p249-50) $2.50 Am. technical soc, 58th st. & Drexel av, Chicago '42
Metallurgy fights on two fronts. B. W. Corrado. bibliog il Iron Age 149:102-11+ Ja 1 '42

Ore concentration and milling, 1941. C. H. Benedict. il Min & Met 23:71-4 F '42

Powder, pressure, and heat; powder metallurgy. il Fortune 25:44-7+ Ja '42

Practical metallurgy; applied physical metallurgy and the industrial processing of ferrous and nonferrous metals and alloys. G. Sachs and K. R. Van Horn. 567p $5 Am. soc. for metals, Cleveland '40

Progress reports, Metallurgical division; annual report of the Metallurgical division, fiscal year 1941. R. S. Dean. bibliog flow sheets pls U S Bur Mines Rep of Invest 3600:1-70 '41

Reduction of metallic ores by natural gas; abstract. F. H. Dotterweich. Franklin Inst J 234:166 Ag '42

Technical progress paces victory march. Steel 110:271-342 Ja 5; 62+ Ja 19 '42

Ultrasonics; possible application of ultrasonic waves to metallurgy. Min & Met 22:596 D '41

Uncommon metals, 1941. V. H. Gottschalk. Eng & Min J 143:89-90 F '42

See also

Alloys
Aluminum metallurgy
Blast furnaces
Chemistry, Technical
Copper metallurgy
Cyanide process
Electrodeposition of metals
Electrometallurgy
Flotation process
Flue dust
Furnaces, Metallurgical
Gold metallurgy
Iron metallurgy
Lead metallurgy
Magnesium metallurgy
Magnetic separation of ores
Manganese metallurgy
Mercury metallurgy
Metallography
Metallurgical analysis
Metallurgical plants
Metallurgical research
Metals
Molybdenum
Open hearth process
Ore treatment
Pickling (metals)
Refractory materials
Silver metallurgy
Sintering
Slag
Smelting
Steel metallurgy
Tailings
Tin metallurgy
Tungsten metallurgy
Zinc metallurgy

Bibliography

Among the newer books. Published in monthly numbers of Mining and metallurgy

Books for metallurgical engineers. Published in monthly numbers of Metals and alloys

Current Institute papers. Published in Mining and metallurgy

METALLURGY—Bibliography—*Continued*

Metallurgical engineering digest; ferrous and non-ferrous; important developments in the world of metals. Published in monthly numbers of Metals and alloys

History

Important event in mining and metallurgical literature; publication of the Pirotechnia of Vannoccio Biringuccio. F. T. Sisco. Min & Met 23:558-9 N '42

Metals of antiquity. J. D. Little. il Metal Finishing 40:409-14, 463-6 Ag-S '42

Study and teaching

New mineral dressing curriculum and laboratories at M.I.T. A. M. Gaudin. il Min & Met 23:376-7+ Jl '42

METALS

Alternate materials; their availability and practicability. L. R. St. Onge. il Refrig Eng 44:291-3 N '42

A.S.M.E. talks metallurgy; summaries of annual meeting papers. J. S. Marsh. Metal Prog 41:73-4 Ja '42

Anisotropy of the electronic work function of metals. R. Smoluchowski. bibliog diags Phys R 60:661-74 N 1 '41

Army-WPB struggle over general allocation of materials still goes on. E. Blair. Barron's 22:4 Ag 17 '42

Brightness rating of metal surfaces measured by reflected light. A. M. Suggs. diag Product Eng 13:253 My '42

Casting properties of foundry products; ferrous and non-ferrous; reference table. H. R. Clauser, comp. Metals & Alloys 15:583 Ap '42

Caterpillar contemplates saving 2,300,000 pounds of strategic materials this year. Steel 111:84+ Ag 3 '42

Caterpillar research effects savings of vital materials. Automotive & Aviation Ind 87: 25+ S 1 '42

Cinderella metals and substitutes aid war output. A. A. Bates. Blast F & Steel Pl 30:338 Mr '42

Condensed review of some recently developed materials, arranged alphabetically by trade names. Mach 49:174-84 O '42

Conservation and substitution, so far. H. W. Gillett. il Metals & Alloys 16:600-7 O '42

Conservation of critical materials in construction. J. H. Ehlers. il Civil Eng 12:374-7 Jl '42

Contacts between metals and between a metal and a semiconductor. H. Y. Fan. diag Phys R 62:388-94 O 1 '42

Critical materials, their conservation by the use of alternates. J. Horn. il Gen Elec R 45:407-14 Jl '42; Excerpt. Steel 110:34-5, 59-62 Je 8 '42; Abstracts. Elec Eng 61: 318-19 Je '42; Chem & Eng N 20:957-9 Ag 10 '42

Critical war materials already scarce. Machine Design 14:152+ Je '42

Crystallization of metals from aqueous solutions. B. P. Planner. diags Iron Age 149: 66-9 Je 11 '42

Determination of oil in metal turnings; improved method and apparatus. D. Margolis. diags Ind & Eng Chem Anal ed 14:478-9 Je 15 '42

Endurance limit; its importance in determining allowable stress. H. W. Hamm. chart Product Eng 12:650-1 D '41

Extraction of metals from aqueous solutions with dithizone lead. L. P. Biefeld and T. M. Patrick. bibliog Ind & Eng Chem Anal ed 14:275-8 Mr 15 '42

Go easy on the metals; Nelson plans metals limitation not stop building order. Am Bld 64:45 F '42

High lights of the session on ores, metals, and the war at the annual meeting, A.I.M.E. il Min & Met 23:210-14 Ap '42

Houses without priorities; case for the over-$6000 house; metal requirement. il diags plans map Arch Forum 75:383-92 D '41

Interaction between a molecule and a metal surface. E. J. R. Prosen and R. G. Sachs. Phys R 61:65-73 Ja 1 '42

Iron, steel and nonferrous metals listed by tradenames, by producers and by principal constituents. Machine Design 14:123-49 O '42

Maintenance conserves strategic metals. R. T. Barnes, jr. Pulp & Pa of Can 43:436-7 My '42

Materials saved by design changes; General Motors. Am Mach 86:1274+ O 29 '42

Mechanism for self-diffusion in metallic copper. H. B. Huntington and F. Seitz. bibliog Phys R 61:315-25 Mr 1 '42

Metal melting temperatures; melting points keyed to color scale; data sheet. Power 86: 521 Jl '42

Metal shortages and their effect on line hardware; report of the line hardware subcommittee, EEI. E. H. Kendall. Edison Elec Inst Bul 9:459-61 N '41

Metal substitute end-point is near, OPM data indicates. S A E J 49:sup19, 47 D '41

Metallurgical engineering digest; ferrous and non-ferrous; important developments in the world of metals. Published in monthly numbers of Metals and alloys

Metals and alloys for construction of chemical engineering equipment; tabulated data. Chem & Met Eng 49:105-28 S '42

Metals to win a war. Business Week p70 Je 13 '42

Military and civilian uses of metals. Min & Met 23:14 Ja '42

Milwaukee priority plan; proposed method of allocating critical materials for non-defense construction; weight calculations of metals used in house construction. Sheet Metal Worker 33:79-81 Ja; 30-2 F '42

New housing critical list; specifies all metal items on which priority assistance will be given for war housing in defense areas. Am Bld 64:90+ Ap '42; Excerpts. Dom Eng 159: 44+ Mr '42; Sheet Metal Worker 33:40+ Ap '42

New materials and finishes of 1941; with reference table. F. P. Peters. Metals & Alloys 15:82-90 Ja '42

New metals and new methods; abstract. C. H. Desch. Engineer 174:139 Ag 14 '42

Ordnance redesigns to free critical materials. J. B. Nealey. il Iron Age 150:38-41 O 15 '42

Outlook for defense metals; supply-demand estimates. Barron's 21:12 N 24 '41

Overall control of metals distribution established under PRP. Steel 110:34-5 Je 15 '42

Overall metals priorities scheme set up within PRP. Oil Paint & Drug Rep 141:7 Je 15 '42

Printing metal supplies are assured. Inland Ptr 108:73-4 N '41

Putting surplus metals from peacetime manufacture into vital war production. A. H. Phelps. Steel 111:66+ Ag 3 '42

Race for metals. il map Fortune 25:84-7+ Mr '42

Restrictions on plating. Metal Finishing 40: 119 Mr '42

Role of metals in the war. W. C. Hirsch. il Automotive & Aviation Ind 87:60-3+ O 1 '42

Scarce metals and shipping our biggest problems. Bankers M 144:363 Ap '42

Self-consistent treatment of the vacancy mechanism for metallic diffusion. H. B. Huntington. diags Phys R 61:325-38 Mr 1 '42

Solution of metals in acids; abstract. V. G. Levich and A. N. Frumkin. Chem & Met Eng 49:154 Mr '42

Sorption of hydrogen by metals; temperature variation experiments. C. W. Griffin. Am Chem Soc J 63:2957-60 N '41

Substitute materials. Oil & Gas J 41:47 Ag 13 '42

Substituting and reclaiming metal in the telephone system. Min & Met 22:595 D '41

Supply of metals for national defense. Z. Jeffries. il Metal Prog 40:747-51 N '41; Same. Science 95:443-6 My 1 '42

Temperature data; chart includes melting points, temperature color scale, conversion data. G. Sykes. Welding J 21:178 Mr '42

Theory of electrical contact between solids. H. Y. Fan. bibliog diags Phys R 61:365-71 Mr 1 '42

METALS—*Continued*

Tomorrow's metals. P. M. Tyler. il Min & Met 23:5-8 Ja '42

Treating pickling liquors for removal of toxic metals. G. E. Barnes and M. M. Braidech. diags Eng N 129:496-9 O 8 '42

Uncommon metals, 1941. V. H. Gottschalk. Eng & Min J 143:89-90 F '42

WPB forbids use of metal in 360 classifications; with list of articles which may not be made of metal. Iron Age 149:105-7+ My 7 '42

Wartime plant design centers about new ways to save critical materials. il Steel 111:92+ N 9 '42

Washington's war-materials achievements; World wars I and II compared. L. Peat. Metals & Alloys 16:608-21 O '42

Where-to-buy section; manufacturers of metals and metal working equipment. Metal Prog 41:C3-C34 Je '42

Why and how of conservation and substitution in ordnance work. A. F. Macconochie. il Steel 111:164-6, 169-70 O 5 '42

See also

Alloys
Aluminum
Annealing
Antimony
Babbitt metal
Bearing metals
Beryllium
Bismuth
Brass
Bronze
Cast iron
Chromium
Cobalt
Copper
Corrosion and anticorrosives
Creep of metals
Deformations (mechanics)
Electrodeposition of metals
Electrometallurgy
Electrons—Emission from metals
Fatigue in metals
Films, Metallic
Foundry practice
Geology
Glass—Joining to metal
Gold
Hardness
Heat treatment
Indium
Iron
Lead
Lithium
Magnesium
Manganese
Mercury
Metal trade
Metallography
Metallurgy
Metals, Non-ferrous
Mines and mineral resources
Molybdenum
Nickel
Ore deposits
Pickling (metals)
Platinum
Platinum metals
Potassium
Precious metals
Radium
Rare earth metals
Sheet metal
Silver
Slag
Sodium
Solder and soldering
Solutions, Solid
Steel
Stellite
Strength of materials
Strontium
Tantalum
Thallium
Thorium
Tin
Titanium
Tungsten
Type metal
Uranium
Welding
Zinc

Aging

Nickel-molybdenum system. F. H. Ellinger. Am Soc for Metals Trans 30:631-7 S '42

Precipitation-hardening of metals. P. D. Merica. Franklin Inst J 234:137-46 Ag '42

Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity, and tensile properties. R. H. Harrington and T. C. Jester. bibliog il Am Soc for Metals Trans 30:124-42; Discussion. 142-6 Mr '42

Studies on aging and coprecipitation; mixed-crystal formation of lead molybdate with colloidal and flocculated lead chromate. I. M. Kolthoff and F. T. Eggertsen. bibliog J Phys Chem 46:616-20 Je '42

Analysis

Extraction of metallic constituents from oils. E. P. Rittershausen and R. J. DeGray. Ind & Eng Chem Anal ed 14:806-7 O 15 '42

Oxine precipitates; determination of metals with 8-hydroxyquinoline. Chem Age (Lond) 45:239 N 1 '41

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

Spectrochemical determination of trace metals in biological material. J. Cholak and R. V. Story. bibliog il Opt Soc Am J 31:730-8 D '41

See also

Metallurgical analysis

also subdivision Analysis under names of Metals, e.g. Copper—Analysis

Bibliography

Manufacturers' literature. Published in monthly numbers of Metals and alloys

Cleaning

See Metal cleaning

—Cold treatment

See Metals, Cold treatment of

Coloring

See Metal coloring

Detection

Detecting tramp iron on belt. il Eng & Min J 143:71 My '42

Expansion and contraction

Expansion and contraction. H. H. Griffith. il diags Welding J 21:591-3 S '42

Freezing of machine-tool parts has many advantages. il Sci Am 167:156 O '42

Over-all linear expansion of three face-centered cubic metals (Al, Cu, Pb) from —190 degrees cent. to near their melting points. J. W. Richards. diags Am Soc for Metals Trans 30:326-34 bibliog(45 references, p333-4); Discussion. 334-6 Je '42

Recent studies of the thermal expansion of metals and alloys. il J Ap Phys 12:843-4 D '41

Thermal expansion of pure metals: molybdenum, palladium, silver, tantalum, tungsten, platinum, and lead. F. C. Nix and D. MacNair. bibliog Phys R 61:74-8 Ja 1 '42

Failure

Metallurgical problems in the telegraph industry. F. H. Clark. il Min & Met 23:18-20 Ja '42

Method of defining failure in members subjected to combined stresses. J. Marin. bibliog Am Soc for Metals Trans 29:1013-21 D '41

See also

Metals—Season cracking

History

Metals of antiquity. J. D. Little. il Metal Finishing 40:409-14, 463-6 Ag-S '42

Non-ferrous

See Metals, Non-ferrous

Prices

Daily and average monthly prices of metals; United States and London. Published in monthly numbers of Engineering and mining journal

Higher metal prices for miners based on quotas. Eng & Min J 143:107 F '42

Market in tabloid. Published in weekly numbers of Steel

Metal industry price ceilings; OPA maximum quotations on metals, machinery and other products as of Dec. 19. Iron Age 149:121-4+ Ja 1 '42

Metal prices for 1941 by days; including monthly highs and lows and monthly averages; tabulations. Eng & Min J 143:99-100 F '42

Metal prices in two wars. Min & Met 23:367-9 Jl '42

Monthly and yearly average prices. Published in monthly numbers of Engineering and mining journal

Price section for the metals, metalworking and allied industries; corrected to Feb. 9, 1942. Iron Age 149:1-19 sec 2 F 12 '42

Prices and price control; abstract. D. H. Wallace. Min & Met 23:212-13 Ap '42

METALS—Prices—*Continued*

Statistical and graphical record of metal prices; monthly, 1929-1940, daily, 1941. chart Eng & Min J 143:supp F '42

Scaling

Rate of film formation on metals. B. Lustman. bibliog il Electrochem Soc Trans 81 (preprint 8):75-90 Ap '42

Season cracking

Bibliography

Bibliography on season cracking. Am Soc T M Proc 41:918-26 '41

Specifications

Specifications problem. W. C. Hirsch. Automotive & Aviation Ind 87:17+ Jl 1 '42

Standards

Specification standards for government work; miscellaneous metals. H. R. Sleeper. Arch Rec 91:63-4 F '42

Temperature effects

Alloys of manganese-nickel and copper; the coefficient of thermal expansion. R. S. Dean, C. T. Anderson and E. V. Potter. il Am Soc for Metals Trans 29:907-12 D '41

Boiler makers' association report on effect of high temperatures. R. McBrian. il Ry Mech Eng 115:513-15 D '41

Dynamic hardness testing of metals and alloys at elevated temperatures; abstract. E. Fetz. Metals & Alloys 15:342+ F '42

Effect on the endurance limit of submerging fatigue specimens in a cold chamber. O. H. Henry and T. D. Coyne. il diags Welding J 21:sup249-54 My '42

Expansion and contraction. H. H. Griffith. il diags Welding J 21:591-3 S '42

Fatigue and static load tests of a high-strength cast iron at elevated temperatures. W. L. Collins and J. O. Smith. il diags Am Soc T M Proc 41:797-807; Discussion. 808-10 '41

Intercrystalline cracking in boiler plates; exposure of iron and steel specimens to sodium hydroxide solutions at high temperature and pressure. F. Adcock and A. J. Cook. diags Iron & Steel Inst J 143:117-33, pl 15-18 no 1 '41

Metals for sub-zero temperatures. L. H. Carr. il Refrig Eng 43:209-11 Ap '42

Over-all linear expansion of three face-centered cubic metals (Al, Cu, Pb) from —190 degrees cent. to near their melting points. J. W. Richards. diags Am Soc for Metals Trans 30:326-34 bibliog(45 references, p333-4); Discussion. 334-6 Je '42

See also

Creep of metals

Steel—Testing—Temperature effects

Testing

Crack detection by fluorescence. Engineering 154:196 S 4 '42; il Mech Handling 29:189 O '42

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. diags Engineering 153:478-80, 498-500, 519 Je 12-26 '42; Excerpts. Engineer 173:477-80 Je 5 '42

Effect of strain rate upon the tensile impact strength of some metals. E. R. Parker and C. Ferguson. bibliog il diags Am Soc for Metals Trans 30:68-80; Discussion. 80-5 Mr '42

Effect of type of testing machine on fatigue test results. il diags Am Soc T M Proc 41:133-50; Discussion. 151-3 '41

Glo-crack; fluorescent testing. il Engineer 174:201 S 4 '42

Hardness and hardness measurements. S. R. Williams. 558p bibliog(p463-546) $7.50 Am. soc. for metals, Cleveland '42

Hardness test as a means of estimating the tensile strength of metals. W. J. Taylor. Roy Aeronautical Soc J 46:198-209 Ag '42

How minute cracks, porosity and surface blow holes in metals can be shown up by use of a fluorescent dye and ultraviolet light; abstract. T. de Forest. Science 96:sup10 O 16 '42

Magnaflux corporation; new technique for the detection of structural flaws by fluorescence. Aeronautical Eng R 1:111 Ag '42

Non-destructive testing; abstract. J. W. Donaldson. Metals & Alloys 16:176+ Jl '42

Non-destructive testing; modern electrical, magnetic and acoustical methods of studying welds, castings, etc. il diag Automobile Eng 31:448-50 D '41

Photo-grid printing; technique for measuring deformations in metal. K. Cornell. il Am Phot 36:16-17 N '42

Physical examination of metals; v. 2, Electrical methods. B. Chalmers and A. G. Quarrell. 280p $6 Longmans '41

Rapid tension tests using the two-load method; abstract. A. V. de Forest, C. W. MacGregor and A. R. Anderson. Engineer 174:28-9 Jl 10 '42

Reference tables of rapid scrap-identification tests. Metals & Alloys 16:264-5 Ag '42

Resistance to cavitation erosion; vibratory method of testing metals. R. Beeching. il diags Engineering 153:238-40, 278-80 Mr 20, Ap 3 '42

Spark test for metals; tabulation. il Metal Prog 42:586 O '42

Spark tests for classifying metals. il Metals & Alloys 16:266 Ag '42

Surface hardness of metals; measured by reflectivity changes caused by impact of sand. B. Chalmers. il diag Engineering 153:117-20 F 6 '42; Same cond. Engineer 173:232-4 Mr 13 '42; Discussion. Engineering 153:256 Mr 27 '42; Engineer 173:243-4 Mr 20 '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

Testing and control instruments. Metal Prog 42:687-96 O '42

Testing and inspection, 1941 and current trend. J. Stokley. Metals & Alloys 15:92-4 Ja '42

Testing material in the resonance range. R. K. Bernhard. il diags Am Soc T M Proc 41:747-57 '41

See also

Electric testing of metals

Fatigue in metals

Hardness—Testing

Magnetic testing

Metals—Temperature effects

Metals—Wear

Metals, Non-ferrous—Testing

Steel—Testing

Testing machines

Wear

Automatic autographic wear-measuring device. C. W. Muhlenbruch. il diag Mech Eng 64:289-90 Ap '42

Co-operative engine wear studies; abstract. F. L. Miller and others. Nat Pet N 34:R45+ F 4 '42

McKee wear gage. il R Sci Instr 13:465 O '42; Iron Age 150:83 O 22 '42

Measuring wear in a bearing. P. L. Budwitz. diags Factory Management 100:124+ Jl '42

Theory of brakes, an example of a theoretical study of wear. I. Opatowski. Franklin Inst J 234:239-49 S '42

Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

See also

Cylinders (engines, etc.)—Wear

X ray inspection

Comparison of X-ray line breadth and internal friction for alpha-brass as affected by cold-working and annealing. F. Niemann and S. T. Stephenson. bibliog Phys R 62:330-3 O 1 '42

Examination of spot welds in Alclad 24S-T. W. F. Hess, R. A. Wyant and B. L. Averbach. il Welding J 21:sup348-52 Jl '42

METALS—X ray inspection—*Continued*

General Electric holds million-volt industrial X-ray symposium. il Blast F & Steel Pl 29:[1108-11] N '41

Interpretation of X-ray diffraction diagrams and evidence of mosaic structures. N. P. Goss. il Am Soc for Metals Trans 29:987-92; Discussion. 992-1001 D '41

Million-volt industrial X-ray unit. il diag Elec Eng 60:571-3 D '41

Million-volt X-ray equipment speeds war production. il Marine Eng 47:138+ Jl '42

Million-volt X rays. il diag Mech Eng 63:906-8 D '41

Million-volt X-rays. il Metals & Alloys 14:883-4 D '41

New radiographic unit aids industry; million volt X-ray unit. il diags Electronics 14:36-7+ N '41

Nickel-molybdenum system. F. H. Ellinger. il Am Soc for Metals Trans 30:628-31 S '42

1,000,000-volt X-ray units; abstract. E. E. Charlton and W. F. Westendorp. Science 96:sup10 Jl 3 '42

Portable million-volt X-ray outfit for industrial laboratories. E. E. Charlton and W. F. Westendorp. il diags Gen Elec R 44:654-61 D '41

Radiographic examination and spectrography, 1941. H. M. Sullivan. Min & Met 23:116 F '42

Radiography as a foundry tool. P. McCaffery. il diags Iron Age 149:45-8 My 14 '42

Röntgenographische spannungsmessungen bei überschreiten der fliessgrenze an zugstäben aus unlegiertem stahl. F. Bollenrath, V. Hauk and E. Osswald. diag V D I 83:129-32 F 4 '39; Abstract (Residual stresses in pure tension revealed by X-ray diffraction method). Welding J 21:sup285-6 Je '42

Some aspects of X-ray inspection applied to testing and production; abstract. D. M. McCutcheon. Metals & Alloys 16:83-4 Jl '42

Ten years' progress in radiography. A. J. Moses. il diags Metal Prog 40:771-6 N '41

X-ray analysis in industry. Engineer 172:sup [Metallurgist] 33-4 O 31 '41

X-ray diffraction as a method of identifying metal alloys. L. L. Wyman. il diags Steel 109:70-2 D 22; 62-3+ D 29 '41

X-ray examination of castings; Aircraft X-ray laboratories. il Aero Digest 40:209+ My '42

X-ray inspection and supplementary technique. H. M. Muncheryan. il Aviation 41:84, 184+ Ja '42

X-ray investigation of iron-nickel-chromium alloys. A. J. Bradley and H. J. Goldschmidt. bibliog Iron & Steel Inst J 144:273-83; Discussion. 284-8 no 2 '41

X-ray of aircraft castings, its control and value. B. C. Boulton. J Aeronautical Sci 9:271-83 Je '42; Abstract. Metals & Alloys 16:812+ O '42

X-ray study of the calcium-strontium alloy series. A. J. King. Am Chem Soc J 64:1226-7 My '42

See also

Welding—X ray inspection

METALS, Clad

Relation of clad and composite metals to the war effort. Marine Eng 47:260 O '42

Welding of clad metals; abstract. G. Richter. Metals & Alloys 15:494+ Mr '42

See also

Alclad
Steel, Clad
Steel, Stainless clad

METALS, Cold treatment of

Controlling physical properties of rivets; Glenn L. Martin company technique. J. H. Eades. il Aero Digest 40:179-80, 183 My '42

Deepfreeze's ace; industrial applications of ultra-low temperatures. Business Week p68+ Ap 11 '42

Freezing of machine-tool parts has many advantages. il Sci Am 167:156 O '42

METALS, Cold working of

Cartridge brass; properties, effect of annealing and cold working. R. A. Wilkins and E. S. Bunn. charts Product Eng 13:42-6 Ja '42

Coining and other cold press work; Bowen products corp. H. Chase. il diags Iron Age 149:47-51 F 5 '42

Cold-pressing properties of duralumin-alloy sheets. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. il Engineering 154:235, 258-60, 278-80; Discussion. 275 S 18-O 2 '42

Comparison of X-ray line breadth and internal friction for alpha-brass as affected by cold-working and annealing. F. Niemann and S. T. Stephenson. bibliog Phys R 62:330-3 O 1 '42

Novel cold reducing mill; involving use of both rolling and drawing action. W. A. Phair. il diags Iron Age 149:76-7 My 7 '42

Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity, and tensile properties. R. H. Harrington and T. C. Jester. bibliog il Am Soc for Metals Trans 30:124-42; Discussion. 142-6 Mr '42

See also

Steel, Cold working of

METALS, Effect of sea water on

Spectrographic analysis as a means of testing for sea-water damage on metals. S. H. Wilson. Soc Chem Ind J 60:286-8 N '41

METALS, Effect of temperature on. See Metals—Temperature effects

METALS, Heat resisting

See also

Alloys, Heat resisting
Steel, Heat resisting

METALS, Non-ferrous

American foundrymen's association annual meeting; abstracts of papers. Foundry 70:146, 148 My '42

Atmosphere control in the heat treatment of non-ferrous metals; abstract. Metals & Alloys 14:778-9 N '41

Designing to save scarce non-ferrous metals. C. S. Cole. table Metals & Alloys 16:67-8 Jl '42

Earnings in primary fabrication of nonferrous metals, 1941. H. Ober and J. Loft. Monthly Labor R 55:314-34 Ag '42

Electric furnaces for non-ferrous heat treatment; abstract. J. E. Oram. Metals & Alloys 15:668, 670 Ap '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:8-10 Ja 10 '42

Machining non-ferrous alloys. il diags Engineer 173:412-14 My 15 '42

Magnetic separation of non-ferrous scrap. R. L. Manegold. il diags Iron Age 150:56-8 N 5 '42

Metallurgy fights on two fronts. B. W. Corrado. Iron Age 149:104-6+ Ja 1 '42

Navy makes variety of nonferrous castings. P. Dwyer. il Foundry 70:66-7+ Jl '42

New cutting oil for non-ferrous metals. Iron Age 150:67 S 17 '42

Nomenclature of non-ferrous alloys. Engineering 152:372 N 7 '41

Non-ferrous alloys for airframes and engines. J. B. Johnson. Aero Digest 41:130+ Jl '42

Nonferrous capacity up. Steel 110:421-3 Ja 5 '42

Nonferrous goals. Business Week p17-18 Mr 14 '42

Non-ferrous metals. Metal Prog 42:665-78 O '42

Non-ferrous metals at war. T. E. Lloyd. il Iron Age 149:112-20+ Ja 1 '42

Non-ferrous metals in 1941. Economist 142:sup22+ Mr 14 '42

Non-ferrous metals, 1941 and current trend. L. Craig. il Metals & Alloys 15:46-7 Ja '42

Nonferrous scrap in war production. J. S. Earle. Mech Eng 64:453-4 Je '42

Planning the nonferrous foundry. N. K. B. Patch. diag Foundry 69:64+ D '41; 70:67+ Ja; 70+ F; 74+ Mr; 137+ Ap '42

METALS, Non-ferrous—*Continued*

Producing nonferrous castings centrifugally. H. B. Zuehlke. il diags Foundry 70:68-70, 154-60 O '42

Production and fabrication of some nonferrous metals and their alloys in wartime. M. A. Hunter and others. Min & Met 23:112-16 F '42

Rare and precious metals; increasing possibilities arise from shortage of more common metals. Z. Jeffries. il Min & Met 23:69-70 F '42

Rate of oxidation of typical nonferrous metals as determined by interference colors of oxide films. D. J. McAdam, jr. and F. W. Geil. J Research Nat Bur Stand 28:593-635 bibliog(p612-13) My '42

Salvage of metal from non-ferrous residues. L. Readman. il diag plans Mech Handling 29:36-8 Jl '42

Salvage problems in a non-ferrous melt shop. R. T. Banister. Metals & Alloys 16:255-6 Ag '42

Scrap recovery at a large electric plant; Western Electric plants. F. A. Shewmake. il Metals & Alloys 16:263 Ag '42

SEC issues two industry reports; oil refining and non-ferrous metals industries. Comm & Fin Chr 155:118 Ja 8 '42

Structure of alloys. W. Hume-Rothery. Metal Prog 41:186+ F '42

See also

Aluminum
Beryllium
Brass
Bronze
Copper
Gold
Lead
Magnesium
Platinum metals
Silver
Tin
Zinc

Prices

Average monthly quotations in 1941; tabulation. Steel 110:358 Ja 5 '42

Non-ferrous prices. Published in weekly numbers of Iron Age

Statistics

Minor metals, 1941. Eng & Min J 143:50-2 F '42

Non-ferrous secondary metals, 1941. F. H. Wright. il Min Cong J 28:58+ F '42

World production of major non-ferrous metals by countries, 1937-1941; tabulations. Eng & Min J 143:supp F '42

Testing

Eddy current type flaw detectors for nonmagnetic metals. I. Vigness, J. E. Dinger and R. Gunn. diags J Ap Phys 13:377-83 Je '42

Report of A.S.T.M. subcommittee VI on atmospheric corrosion. Am Soc T M Proc 41:172-6 '41

METALS, Powdered. See Metal powders

METALS, Rare earth. See Rare earth metals

METALS, Tarnishing of. See Tarnishing of metals

METALS and alloys (periodical)

Metals and Alloys announces an annual award for engineering achievement in the metal industries. Metals & Alloys 16:598 O '42

METALS reserve company

Activities of Metals reserve co.: a report on domestic production of strategic materials. C. B. Henderson. Eng & Min J 143:78+ Ap '42

Defense activity of the Reconstruction finance corporation. C. B. Henderson. il Min Cong J 27:31-3+ N '41

Metals Reserve formulates standard contracts for manganese and chrome ores. Min Cong J 27:60-1 D '41

New ruling to stimulate tungsten output. Eng & Min J 143:75 My '42

What every miner should know; numerous agencies and aids to promote exploitation of strategic minerals. R. Linton. il Explosives Eng 20:287-91 O '42

METAMORPHISM

Correlation and metamorphism of the Thomson formation, Minnesota. G. M. Schwartz. bibliog map Geol Soc Bul 53:1001-20, pl 1-4 Jl '42

Geology and metamorphism in the McVeigh Lake area, northern Manitoba. J. D. Bateman. bibliog diag Am J Sci 240:789-808 N '42

Granite and magmation and metamorphism. J. A. Dunn. Econ Geol 37:231-8 My '42

Igneous rocks of the Highwood mountains, Montana; contact metamorphism. E. S. Larsen and B. F. Buie. Geol Soc Bul 52:1829-40, pl 1 D '41

Intrusive domes of the Claremont-Newport area, New Hampshire. C. A. Chapman. bibliog diags map Geol Soc Bul 53:889-915, pl 1 Je '42

Pseudomigmatite in the piedmont of Maryland. R. W. Chapman. bibliog diags Geol Soc Bul 53:1299-1330, pl 1-6 S '42

METANILAMIDE

Solubilities of orthanilamide, metanilamide and sulfanilamide. R. H. Kienle and J. M. Sayward. Am Chem Soc J 64:2464-8 O '42

METAPHOSPHATES

Development of processes for metaphosphate productions. R. L. Copson, G. R. Pole and W. H. Baskervill. bibliog il diag Ind & Eng Chem 34:26-32 Ja '42

Analysis

Estimation of ortho-, pyro-, meta-, and polyphosphates in the presence of one another. L. T. Jones. bibliog Ind & Eng Chem Anal ed 14:536-42 Jl 15 '42

METEORITES

Deformation of rock strata by explosions; craters due to fall of giant meteorites and to volcanic explosions. J. D. Boon and C. C. Albritton, jr. bibliog Science 96:402 O 30 '42

Excavating for meteorites; craters made by violent impact are under geologic exploration in Texas. il Sci Am 166:138-9 Mr '42

Witsand meteorite, south-west Africa. S. J. Shand. Am J Sci 240:67-71 Ja '42

METEOROLOGICAL instruments

Meteorological instruments. W. E. K. Middleton. 213p $3.25 Univ. of Toronto press, Toronto '41

See also

Radio meteorographs

METEOROLOGICAL optics

Visibility in meteorology; the theory and practice of the measurement of the visual range. W. E. K. Middleton. 2d ed rev & enl 165p bibliog(p137-53) $2.50 Univ. of Toronto press '41

METEOROLOGICAL research

See also

Radio meteorographs

METEOROLOGY

Astronomy, maps, and weather. C. C. Wylie. 449p $3 Harper '42

Clouds, air and wind. E. Sloane. 74p $2.50 Devin-Adair co, New York '41

Eclipse meteorology; with special reference to the total solar eclipse of Aug. 31, 1932. C. F. Brooks and others. 109p bibliog(p105-9) pa $1.25 Harvard univ. Blue Hill meteorological observatory, Milton, Mass. '41

Elementary meteorology for aviators. 48p pa 40c Longmans '42

Meteorologists and national defense; abstract. C. F. Brooks. Science 94:sup8-9 N 21 '41

Observer's book on meteorology. W. Alexander and W. J. D. Allan. 110p 85c Nelson (Toronto)

Weather and the ocean of air. W. H. Wenstrom. 484p $4.50 Houghton '42

Weather elements; a text in elementary meteorology. T. A. Blair. rev ed 401p bibliog(p370-5) $5; to schools $4 Prentice-Hall '42

METEOROLOGY—*Continued*

Weather study. D. Brunt. 215p bibliog(p211) $2.25 Ronald press '42

See also

Air
Atmosphere, Upper
Droughts
Floods
Fog
Humidity
Indian summer
Lightning
Magnetic storms
Magnetism, Terrestrial
Rain and rainfall
Solar radiation
Sunspots
Tornadoes
Weather forecasting
Winds

METEOROLOGY, Aeronautic

Aeronautical meteorology. G. F. Taylor. rev ed 432p $4.50 Pitman '40
Air navigation and meteorology. R. Duncan. 4th ed 297p $3 Goodheart-Willcox co, 2009 S. Michigan av, Chicago '41
Airmen reminded to watch hazards of spring weather. P. A. Gareau. Civil Aero J 3:103+ Ap 15 '42
Cloud charge indicator. il(p54) Sci Am 166:78 F '42
Clouds, air and wind. E. Sloane. 75p $2.50 Devin-Adair co, New York '41
Flight; meteorology and aircraft instruments; a general survey of fundamentals of aviation. B. Wright, W. E. Dyer and R. Martin. 348p $3.25 Am. technical soc, 58th st. & Drexel av, Chicago '42
Forecasting the formation of fog at terminal stations. B. C. Haynes. Civil Aero J 3:32+ F 1 '42
Hints to airline pilots; strength and distribution of gusts in cumulo-nimbus clouds. R. M. Stanley. Civil Aero J 3:106 Ap 15 '42
Meteorological characteristics of thunderstorms. G. N. Brancato. il diags Aviation 41:101-3+ O '42 (to be cont)
Meteorology and air navigation; air pilot training. B. A. Shields. 2d ed 285p $2.25 McGraw-Hill '42
Proper execution of flight plan is sound insurance. Civil Aero J 3:128 Je 15 '42
XC flight plans aid the private pilot. Aero Digest 40:169 Je '42

See also

Radio meteorographs

METER readers

Atlanta employs girls as meter readers. il Am Gas J 157:40 Jl '42
Atlanta girls make good as meter readers. J. H. Reed. il Gas Age 90:26+ S 10 '42
Expand functions of rural meter readers. Elec W 117:844 Mr 7 '42
Meter readers effect savings, make tests. K. M. Norcross. Elec W 117:2077-8 Je 13 '42
Unaccounted for! accounting department functions in gas diversion cases. J. B. McKelvey. Am Gas Assn Mo 24:24-5+ Ja '42

METER reading

Adopt bi-monthly meter reading plan; Consumers power company, Jackson, Mich. Elec W 118:816+ S 5 '42
Annual reading plan for rural meters. Elec W 118:656 Ag 22 '42
Higher meter reading wages at lower costs through changes in meter reading routes. T. J. O'Neill. Am Gas Assn Mo 24:147-50+ Ap '42
How British utility accountants met the blitz. E. N. Keller. Am Gas Assn Mo 24:231-2 Je '42
Meter reading practices of gas companies during the emergency. il Am Gas J 157:9-12 S '42
Meter routes conform to bus routes. Elec W 118:330 Jl 25 '42
Midwest companies to adopt bi-monthly billing. Elec W News ed 118:1357 O 24 '42
Postcards save gas, tires on skips; use of return postcards in connection with skipped meter readings. S. M. Gould. il Elec W 118:1150+ O 3 '42
Quarterly meter reading plan; Connecticut light and power company. Elec W 118:1320-1 O 17 '42
Quarterly meter reading with monthly billing. J. A. Williams. il Edison Elec Inst Bul 10:293-4 Ag '42
Read rural meters on quarterly basis. Elec W 118:328+ Jl 25 '42
Self-metered; patrons of utilities take own readings. Business Week p52 O 31 '42
Utilities pushing gas and rubber conservation; postcard meter reading and abolition of free service calls. Elec W News ed 118:206-7 Jl 18 '42
Utilities try bi-monthly, quarterly meter readings. Elec W News ed 118:537 Ag 15 '42

METERS

Use of meters for measuring production from individual wells. W. A. Sawdon. il Pet Eng 13:60-1, 64, 66 Mr '42

See also

Dynamometers
Electric meters
Flow meters
Gages
Gas meters
Manometers
Meter reading
Micrometers
Orifices
Viscosimeters
Water meters

METHANE

Applications of thermodynamics to multicomponent systems. B. H. Sage and R. H. Olds. bibliog il diag Ind & Eng Chem 34:526-32 My '42
Carbon-hydrogen bond strengths in methane and ethane. H. G. Andersen, G. B. Kistiakowsky and E. R. Van Artsdalen. J Chem Phys 10:305 My '42
Chlorination of methane. E. T. McBee and others. bibliog flow diag il diags Ind & Eng Chem 34:296-300 Mr '42
Compressibilities of gaseous mixtures of methane and normal butane; the equation of state for gas mixtures. J. A. Beattie, W. H. Stockmayer and H. G. Ingersoll. bibliog J Chem Phys 9:871-4 D '41
Decomposition of methane in glow discharge at liquid-air temperature. L. M. Yeddanapalli. bibliog diag J Chem Phys 10:249-60 My '42
Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42
Determination of the Lennard-Jones parameters from second virial coefficients; tabulation of the second virial coefficient. W. H. Stockmayer and J. A. Beattie. J Chem Phys 10:476-7 Jl '42
Heat capacity of certain halomethanes. G. Glockler and W. F. Edgell. bibliog il Ind & Eng Chem 34:532-4 My '42
Indigenous fuels; gaseous paraffins for transport purposes. Automobile Eng 31:413-14 N '41
Methane-isobutane system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1008-13 Ag '42
Nitration of methane. T. Boyd and H. B. Hass. bibliog diags Ind & Eng Chem 34:300-4 Mr '42
Phase equilibria in hydrocarbon systems; composition of the dew-point gas of the methane-water system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1223-7 O '42
Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42
Phase equilibria in hydrocarbon systems; volumetric and phase behavior of methane-*n*-pentane system. B. H. Sage and others. bibliog Ind & Eng Chem 34:1108-17 S '42
Photolysis of ketene in the presence of hydrogen and methane. C. Rosenblum. bibliog Am Chem Soc J 63:3322-9 D '41
Second virial coefficient for gas mixtures. J. A. Beattie and W. H. Stockmayer. bibliog J Chem Phys 10:473-6 Jl '42
Surface tensions of methane-propane mixtures; abstract. D. L. Katz and C. F. Weinaug. Nat Pet N 34 pt 2:R319 S 30 '42
Systematics in the vibrational spectra of the halogen derivatives of methane. T. Wu. bibliog J Chem Phys 10:116-24 F '42

See also

Chlorofluoromethanes

METHANE detectors

Permissible methane detectors. L. C. Ilsley and A. B. Hooker. pls U S Bur Mines Rep of Invest 3643:1-10 '42

METHANETHIOL

Heat capacity, entropy, heats of fusion, transition, and vaporization and vapor pressures of methyl mercaptan. H. Russell, jr., D. W. Osborne and D. M. Yost. bibliog Am Chem Soc J 64:165-9 Ja '42

Polymerization of some derivatives of trimethylaluminum. N. Davidson and H. C. Brown. bibliog Am Chem Soc J 64:316-24 F '42

METHANOL

Boiling point-composition data of the methyl alcohol-dioxane system. F. L. Padgitt, E. S. Amis and D. W. Hughes. Am Chem Soc J 64:1231-2 My '42

Catalytic addition reactions of acetylenic alcohols. G. F. Hennion and W. S. Murray. Am Chem Soc J 64:1220-2 My '42

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:44 O 8 '42

Effect of operating variables on the performance of a packed column still; system methanol-water. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Ionization constants of propionic acid in methyl and ethyl alcohol-water mixtures from 0 through 40°. A. Patterson and W. A. Felsing. Am Chem Soc J 64:1480-2 Je '42

Methanol distribution control tightened. Oil Paint & Drug Rep 140:3+ N 17 '41

Methanol prohibited for antifreeze use. Oil Paint & Drug Rep 141:3+ Ja 12 '42

Mutarotation of glucose in water-methanol mixtures. H. E. Dyas and D. G. Hill. bibliog Am Chem Soc J 64:236-40 F '42

Naphtha treating pays its way. C. F. Mason, R. D. Bent and J. H. McCullough. il diag Am Pet Inst Proc 22(3):45-9 '41; Same. Oil & Gas J 40:114, 116+ N 6 '41; Discussion. Am Pet Inst Proc 22(3):49-51 '41

Oxalic acid from sawdust; optimum conditions for manufacture. D. F. Othmer, C. H. Gamer and J. J. Jacobs, jr. bibliog flow sheet Ind & Eng Chem 34:262-7 Mr '42

Plastics industry and defense; priorities. Mod Plastics 19:34b D '41

Price schedule. Iron Age 149:140+ Ja 1 '42

Reaction between periodate oxidized starch and methanol containing hydrogen chloride. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:589-93 Mr '42

Reaction velocities at low temperatures; the ionisation of nitroethane at temperatures between -32° and +20°. R. P. Bell and A. D. Norris. Chem Soc J p854-6 D '41

Reactions of benzthiazole derivatives; the interaction of 1-thiolbenzthiazoles and alcohols. W. H. Davies and W. A. Sexton. Chem Soc J p304-7 Ap '42

Standard potential of the silver-silver bromide electrode in anhydrous methanol at 25°. E. W. Kanning and A. W. Campbell. bibliog Am Chem Soc J 64:517-19 Mr '42

Studies of ionisation in non-aqueous solvents; the formation of certain methoxides and ethoxides in methyl and in ethyl alcohol. W. L. German and T. W. Brandon. Chem Soc J p526-8 Ag '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

Temperature and composition coefficients of the density, refractive index, and viscosity of the methyl alcohol-dioxane system. E. S. Amis, A. R. Choppin and F. L. Padgitt. bibliog Am Chem Soc J 64:1207-12 My '42

Vapor-liquid equilibrium of methanol-ethanol-water; mechanism of ethanol dehydration. J. Griswold and J. A. Dinwiddie. Ind & Eng Chem 34:1188-91 O '42

Analysis

Analysis of the ternary system ethanol-methanol-water; requiring boiling point, refractive index, and specific gravity of the sample. J. Griswold and J. A. Dinwiddie. bibliog Ind & Eng Chem Anal ed 14:299-300 Ap 15 '42

METHANOL poisoning

Methanol poisoning; exposure of dogs to 450-500 p.p.m. methanol vapor in air. R. R. Sayers and others. bibliog U S Bur Mines Rep of Invest 3617:1-10 '42

METHEMOGLOBIN

Heats of organic reactions; the reaction between methemoglobin and salicylate. R. M. Roberts. bibliog Am Chem Soc J 64:1472-5 Je '42

METHIONINE

Convenient synthesis of *dl*-methionine. H. R. Snyder and others. bibliog Am Chem Soc J 64:2082-4 S '42

METHOCEL. See Methyl cellulose

METHODOLOGY

See also

Scientific methods

also subdivision Methodology under special subjects, e.g.

Science—Methodology

METHOXIDES

See also

Sodium methoxide

METHOXY group

Effect of methoxyl toward stabilizing enediols. R. P. Barnes and W. M. Lucas. Am Chem Soc J 64:2258-9 O '42

Improved methoxyl apparatus. A. J. Bailey. bibliog diag Ind & Eng Chem Anal ed 14:181 F 15 '42

METHOXYACRYLONITRILE

Synthesis of methyl α-methoxyacrylate and α-methoxyacrylonitrile; characterisation of methoxy-derivatives of propionic acid. J. W. Baker. Chem Soc J p520-2 Ag '42

METHOXYBENZOYL benzoic acid

Synthesis of 2-(2′-methoxybenzoyl)-benzoic acid. B. P. Geyer. Am Chem Soc J 64:2226-7 S '42

METHOXYBENZOYLMESITOYLMETHANE

Properties of *o*-methoxybenzoylmesitoylmethane. R. P. Barnes and C. C. Cochrane. bibliog Am Chem Soc J 64:2262 O '42

METHOXYETHANOL. See Methyl cellosolve

METHOXYNAPHTHOL

Bromination of 1 : 5-dihydroxy- and 1 : 5-diacetoxy-naphthalene, 5-methoxy-1-naphthol, and 1 : 5-dimethoxynaphthalene. A. H. Carter, E. Race and F. M. Rowe. Chem Soc J p236-9 Ap '42

METHOXYNORCHOLENYL diphenylcarbinol

Preparation and dehydration of 6-methoxy-*i*-norcholenyldiphenylcarbinol. B. Riegel, M. F. W. Dunker and M. J. Thomas. Am Chem Soc J 64:2115-20 S '42

METHOXYPHENYL mesitoylacetylene glycol

Preparation and properties of an ene-diol; α-*o*-methoxyphenyl-β-mesitoylacetylene glycol. R. P. Barnes and W. M. Lucas. Am Chem Soc J 64:2260-1 O '42

METHOXYQUINOLINE

Antiplasmodial action and chemical constitution; carbinolamines derived from 6-methoxyquinoline. H. King and T. S. Work. Chem Soc J p401-4 Je '42

METHOXYSTILBENE

Separation of *cis* and *trans* stilbenes by application of the chromatographic brush method. L. Zechmeister and W. H. McNeely. bibliog Am Chem Soc J 64:1919-21 Ag '42

METHOXYL group. See Methoxy group

METHYL
Counting of free alkyl radicals; application to the photolysis of acetone. M. H. Feldman. J. E. Ricci and M. Burton. bibliog diag J Chem Phys 10:618-23 O '42

METHYL acetate
Photolysis of methyl acetate. W. L. Roth and G. K. Rollefson. bibliog Am Chem Soc J 64:490-4 Mr '42

METHYL acetophenone
Comparison of metallic chlorides as catalysts for the Friedel-Crafts ketone synthesis. O. C. Dermer and others. bibliog Am Chem Soc J 63:2881-3; 64:464-5 N '41, F '42

METHYL acetoxypropionate
Pyrolysis of lactic acid derivatives; conversion of methyl α-acetoxypropionate to methyl acrylate. L. T. Smith and others. bibliog Ind & Eng Chem 34:473-9 Ap '42

METHYL acrylate
Electrical properties of solids; polymethyl acrylate, polymethyl methacrylate, polymethyl-α-chloracrylate and polychloroethyl methacrylate. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:2389-93 O '42

Pyrolysis of lactic acid derivatives; conversion of methyl α-acetoxypropionate to methyl acrylate. L. T. Smith and others. bibliog Ind & Eng Chem 34:473-9 Ap '42

See also
Methyl methacrylate

METHYL acrylic acid
Restricted rotation in aryl olefins; substituted β-(2,7-dimethoxy-1-naphthyl)-α-methylacrylic acids. R. Adams and others. Am Chem Soc J 64:1795-1801 Ag '42

METHYL alcohol. See Methanol

METHYL anisole
Orientation studies in the coumaran series. R. T. Arnold and J. C. McCool. bibliog Am Chem Soc J 64:1315-17 Je '42

METHYLBIXIN
New stereoisomers of methylbixin. L. Zechmeister and R. B. Escue. Science 96:229-30 S 4 '42

METHYL bromide
Five fumigants for disinfestation of bedding and clothing; a comparative study of insecticidal properties. G. C. Sherrard. Pub Health Rep 57:753-9 My 15 '42

Photolysis of methyl bromide. A. Gordon and H. A. Taylor. bibliog Am Chem Soc J 63:3435-41 D '41

Analysis

Determination of total and inorganic bromide in foods fumigated with methyl bromide. S. A. Shrader, A. W. Beshgetoor and V. A. Stenger. bibliog Ind & Eng Chem Anal ed 14:1-4 Ja 15 '42

METHYL butylneopentylcarbinyl group
Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the methyl-*t*-butylneopentylcarbinyl group and their bromomagnesium enolates. F. C. Whitmore and D. I. Randall. bibliog Am Chem Soc J 64:1242-6 Je '42

METHYL cellosolve
Determination of atmospheric contaminants; methyl cellosolve. H. B. Elkins, E. D. Storlazzi and J. W. Hammond. J Ind Hygiene 24:229-32 O '42

METHYL cellulose
Chemical and physical properties of carboxymethylcellulose and its salts. C. J. Brown and A. A. Houghton. Soc Chem Ind J 60:254-8 O '41

Evaluation of methocel as a pigment adhesive for paper coatings. R. M. Upright, M. Kin and F. C. Peterson. bibliog Paper Tr J 114:36-40 Ja 8 '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:38 O 19; 67 O 26 '42

Methylcellulose adhesives; abstract. K. Miksch. Chem & Met Eng 48:131 D '41

Analysis

Determination of alkoxyl groups in cellulose ethers. E. P. Samsel and J. A. McHard. bibliog il diags Ind & Eng Chem Anal ed 14:750-4 S 15 '42

METHYL chloracrylate
Electrical properties of solids; polymethyl acrylate, polymethyl methacrylate, polymethyl-α-chloracrylate and polychloroethyl methacrylate. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:2389-93 O '42

METHYL chloride
Chlorination of methane. E. T. McBee and others. bibliog flow diag il diags Ind & Eng Chem 34:296-300 Mr '42

How a hotel chain maintains its air conditioning systems; methyl chloride substituted for Freon in some cases. H. W. Genone. Heating-Piping 14:345-6 Je '42

Preparation of methyl chloride from natural gas; research work of a Russian laboratory. Y. G. Mamedaliev and others. bibliog plan Oil & Gas J 40:33-5 F 12 '42

Systems with boron trifluoride. H. S. Booth and D. R. Martin. bibliog diags Am Chem Soc J 64:2198-205 S '42

Testing for methyl chloride leaks; dangerous use of halide torch. Heating-Piping 14:660 N '42

METHYL cholanthrene
Carcinogenic effect of methylcholanthrene and of tar on rabbit papillomas due to a virus. P. Rous and W. F. Friedewald. bibliog Science 94:495-6 N 21 '41

METHYL chrysene
Ultraviolet absorption spectra of the monomethylchrysenes. W. R. Brode and J. W. Patterson. bibliog diag Am Chem Soc J 63:3252-5 D '41

METHYL cyclohexane
Determination of small amounts of benzene in the presence of cyclohexane and of toluene in the presence of methylcyclohexane. B. B. Corson and L. J. Brady. il Ind & Eng Chem Anal ed 14:531-3 Jl 15 '42

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

METHYL cyclopentyl methyl ketone
Normal and abnormal alkylation of 2-methylcyclopentyl methyl ketone. G. Wash, B. Shive and H. L. Lochte. bibliog Am Chem Soc J 63:2975-9 N '41

METHYL dioxolane
Studies on oxygen absorption induced by ether linkages; rates of oxygen absorption by dioxolane and methyldioxolane. R. R. Legault and D. C. Lewis. bibliog Am Chem Soc J 64:1354-6 Je '42

METHYL dipyrrylmethane
Synthesis of unsymmetrical N-methyl dipyrrylmethanes. W. M. Quattlebaum, jr, and A. H. Corwin. Am Chem Soc J 64:922-5 Ap '42

METHYL ether
Kinetics of gaseous reactions by means of the mass spectrometer; the thermal decomposition of dimethyl ether and acetaldehyde. E. Leifer and H. C. Urey. diags Am Chem Soc J 64:994-1001 Ap '42

METHYL ethyl ketone. See Butanone

METHYL formanilide
N-methylformanilide synthesis of aldehydes. L. F. Fieser and J. E. Jones. bibliog Am Chem Soc J 64:1666-9 Jl '42

METHYL formate
Vapor phase photo decomposition of methyl formate. D. H. Volman. Am Chem Soc J 64:1820-1 Ag '42

METHYL fumarate
Crystal structure of *trans-trans*-methyl fumarate and *trans-trans*-methyl muconate. I. E. Knaggs and K. Lonsdale. Chem Soc J p417-18 Jl '42

METHYL fumarate—*Continued*

Synthesis of condensed ring compounds; further applications of the dienyne double addition reaction. L. W. Butz and L. M. Joshel. bibliog Am Chem Soc J 64:1311-13 Je '42

METHYL furoate

Reaction of methyl furoate with benzene and chlorobenzene. C. C. Price and C. F. Huber. bibliog Am Chem Soc J 64:2136-9 S '42

METHYL group

Internal rotation in molecules with two or more methyl groups. K. S. Pitzer. il J Chem Phys 10:605-6 S '42

Mechanism of aromatic side-chain reactions, with special reference to the polar effects of substituents; physical and chemical evidence relating to the polar effect of *o*-methyl substituents in derivatives of the type $C_6H_2Me_3{\cdot}CO{:}CH_2R$. J. W. Baker and W. T. Tweed. Chem Soc J p796-802 D '41

METHYL halides

Infra-red spectra of axially symmetric XY_3Z molecules. W. H. Shaffer. bibliog J Chem Phys 10:1-9 Ja '42

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

METHYL hexanols

Structure-property relationships in some isomeric octanols. G. L. Dorough and others. bibliog Am Chem Soc J 63:3100-10 N '41

METHYL hexopyranoside sulfate

Carbohydrate sulphuric esters; the isolation of 3 : 6-anhydromethylhexosides from methylhexopyranoside sulphates. R. B. Duff and E. G. V. Percival. Chem Soc J p830-3 D '41

METHYL iodide

Interpretation of the methyl iodide absorption bands near λ2000. R. S. Mulliken and E. Teller. bibliog Phys R 61:283-96 Mr 1 '42

Photoöxidation of methyl iodide. W. J. Blaedel, R. A. Ogg, jr. and P. A. Leighton. Am Chem Soc J 64:2500-1 O '42

Products from the Wurtz reaction and the mechanism of their formation. A. Saffer and T. W. Davis. bibliog Am Chem Soc J 64:2039-43 S '42

Study of the Menschutkin reaction using radioactive hydrogen as a tracer. D. Harman, T. D. Stewart and S. Ruben. bibliog Am Chem Soc J 64:2294-6 O '42

Tracer studies with radioactive hydrogen; the synthesis of labelled methyl iodide. D. Harman, T. D. Stewart and S. Ruben. bibliog diag Am Chem Soc J 64:2293-4 O '42

METHYL isobutyl ketone. See Hexone

METHYL isopropenyl ketone

Ketone plastics; a study of methyl isopropenyl ketone. B. Rutovsk. Chem Age (Lond) 47: 323 O 10 '42

Physical constants of methyl isopropenyl ketone. J. H. Brant. bibliog Am Chem Soc J 64:2224-5 S '42

Structure of vinyl polymers; the polymer of methyl isopropenyl ketone. C. S. Marvel, E. H. Riddle and J. O. Corner. bibliog Am Chem Soc J 64:92-4 Ja '42

METHYL magnesium iodide

1,4-Addition of methylmagnesium iodide to an α,β-unsaturated ketone system involving the double bond of a β-aroylfuran nucleus, and ring cleavage of the resulting vinyl allyl ether system. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3178-80 N '41

METHYL mercaptan. See Methanethiol

METHYL methacrylate

Acrylic resins for dentures. W. T. Sweeney, G. C. Paffenbarger and J. R. Beall. bibliog il Mod Plastics 19:61-7+ Ap '42

Addition polymerization catalyzed by substituted acyl peroxides. C. C. Price, R. W. Kell and E. Krebs. bibliog Am Chem Soc J 64:1103-6 My '42

Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34: 764-70 Je '42

Electrical properties of solids; polymethyl acrylate, polymethyl methacrylate, polymethyl-α-chloracrylate and polychloroethyl methacrylate. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:2389-93 O '42

Methacrylate resins in surgery; with special reference to the reconstruction of arthritic joints. P. H. Harmon. il Mod Plastics 20: 56-7+ S '42

Methyl methacrylate as imbedding agent. H. F. Halenz and L. W. Botimer. bibliog il J Chem Educ 19:313-14 Jl '42

Methyl methacrylate polymerization; peroxide catalysis and the oxidation of hydroquinine inhibitor. H. N. Alyea, J. J. Gartland, jr. and H. R. Graham, jr. Ind & Eng Chem 34: 458-60 Ap '42

Petroleum plastics, the acrylic resins. C. C. Pryor. il diag Pet Eng 13:80, 82-4 My '42

Velocity of sound in methyl methacrylate polymer. L. R. Weber and F. P. Goeder. bibliog Phys R 61:94-5 Ja 1 '42

Testing

Behavior of plastics under vibrations; mild steel, duralumin, laminated plastics, polymethyl methacrylate. B. J. Lazan. bibliog il diags Mod Plastics 20:83-8+ N '42

METHYL methoxyacrylate

Synthesis of methyl α-methoxyacrylate and α-methoxyacrylonitrile; characterisation of methoxy-derivatives of propionic acid. J. W. Baker. Chem Soc J p520-2 Ag '42

METHYL muconate

Crystal structure of *trans-trans*-methyl fumarate and *trans-trans*-methyl muconate. I. E. Knaggs and K. Lonsdale. Chem Soc J p417-18 Jl '42

METHYL naphthalene

Antihemorrhagic activity of sulfonated derivatives of 2-methylnaphthalene. B. R. Baker and others. Am Chem Soc J 64:1096-1101 My '42

METHYL naphthoquinone

Analysis

Quantitative determination of 2-methyl-1,4-naphthoquinone. A. R. Menotti. il Ind & Eng Chem Anal ed 14:418-20 My 15 '42

METHYL octadecanoic acid

Branched-chain fatty acids; synthesis of 17-methyloctadecanoic acid. J. Cason. bibliog Am Chem Soc J 64:1106-10 My '42

METHYL oxindole

Monothiophthalimide and some derivatives of oxindole. J. C. Porter, R. Robinson and M. Wyler. Chem Soc J p620-4 O '41

METHYL pentadiene

Preparation and isolation of 4-methyl-1, 3-pentadiene. G. B. Bachman and C. G. Goebel. bibliog Am Chem Soc J 64:787-90 Ap '42

METHYL pentane

P-V-T relations and derived quantities for hexanes. E. A. Kelso and W. A. Felsing. bibliog Ind & Eng Chem 34:161-3 F '42

METHYL phenanthrene

Investigations in the 1-methylphenanthrene series; the synthesis of 3-acetyl-1-methylphenanthrene. T. Hasselstrom and D. Todd. bibliog Am Chem Soc J 64:1225-6 My '42

METHYL pregnanetriol

Sterols; sapogenins; 20-methylpregnanetriol and related compounds. R. E. Marker and D. L. Turner. Am Chem Soc J 64:481-2 Mr '42

METHYL pregnanolone

Sterols; 17-methyl-pregnan-3(β)-ol-20-one and related compounds. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1273-5 Je '42

METHYL pyrrolidine acetate

Synthesis of ethyl 1-methylpyrrolidine-2-acetate. F. E. King, J. W. Clifton and H. T. Openshaw. Chem Soc J p422-4 Jl '42

METHYL pyrrolizidine

Synthesis of 2-methylpyrrolizidine. G. R. Clemo and T. A. Melrose. Chem Soc J p424-6 Jl '42

METHYL salicylate
Salicylamide; the ammonolysis of methyl salicylate. E. R. Kline. J Chem Educ 19:332 Jl '42

METHYL stilbene
Separation of *cis* and *trans* stilbenes by application of the chromatographic brush method. L. Zechmeister and W. H. McNeely. bibliog Am Chem Soc J 64:1919-21 Ag '42

METHYL sulfide
Heat capacity, heats of fusion and vaporization, vapor pressure and entropy of dimethyl sulfide. D. W. Osborne, R. N. Doescher and D. M. Yost. bibliog Am Chem Soc J 64:169-72 Ja '42

METHYL vinylcarbinyl chloride
Allylic rearrangements; kinetics and mechanisms of the conversion of crotyl and methylvinylcarbinyl chlorides to acetates and ethyl ethers. J. D. Roberts, W. G. Young and S. Winstein. bibliog Am Chem Soc J 64:2157-64 S '42

METHYLAMINE
Determination of the activity coefficients of the methylamine hydrochlorides from freezing point data. J. H. Jones, F. J. Spuhler and W. A. Felsing. bibliog diag Am Chem Soc J 64:965-8 Ap '42

Effect of formaldehyde on the volatilizations of ammonia, mono-, di-, and trimethylamines. G. J. Benoit, jr. and E. R. Norris. bibliog diag Ind & Eng Chem Anal ed 14:823-5 O 15 '42

Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

Preparation of γ-alkylamides of glutamic acid. N. Lichtenstein. Am Chem Soc J 64:1021-2 My '42

METHYLATION
Alkylation of α-naphthoquinones with esters of tetravalent lead. L. F. Fieser and F. C. Chang. bibliog Am Chem Soc J 64:2043-52 S '42

Alkylation of para quinones with acyl peroxides. L. F. Fieser and A. E. Oxford. bibliog Am Chem Soc J 64:2060-5 S '42

Constitution of arabo-galactan; the isolation of heptamethyl- and octamethyl-6-galactosidogalactose through partial hydrolysis of methylated arabogalactan. E. V. White. bibliog Am Chem Soc J 64:302-6 F '42

Determination of the bridge structure of dipyrrylmethanes; a new method for the estimation of active hydrogen. A. H. Corwin and R. C. Ellingson. bibliog diags Am Chem Soc J 64:2098-106 S '42

Methylation of aromatic nitro compounds with lead tetraacetate. L. F. Fieser, R. C. Clapp and W. H. Daudt. bibliog Am Chem Soc J 64:2052-60 S '42

Methylation of wool; abstract. Blackburn, Carter and Phillips. Textile Col 64:174-5 Ap '42

Polysaccharide associated with β-amylase. L. H. Ford and S. Peat. Chem Soc J p856-64 D '41

Preparation and alkylation of 1,4-dimesityl-3-methyl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2423-6 O '42

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

Studies on biological methylation; a summary of recent work and some hypotheses regarding its mechanism. F. Challenger. Chem & Ind 61:397-9, 413-15, 456-8 S 26, O 10, N 7 '42

Studies on reactions relating to carbohydrates and polysaccharides; structure of the dextran synthesized by the action of leuconostoc mesenteroides on sucrose. I. Levi, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 64:1959-62 Ag '42

METHYLENE blue
Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

METHYLENE chloride
Chlorination of methane. E. T. McBee and others. bibliog flow diag il diags Ind & Eng Chem 34:296-300 Mr '42

METHYLENECYCLOBUTANE
Structures of methylenecyclobutane and hexamethylethane. S. H. Bauer and J. Y. Beach. Am Chem Soc J 64:1142-7 My '42

METHYLENEDIOXY compounds
Base-catalyzed cleavage of methylenedioxy rings. R. T. Arnold, N. Bortnick and E. McMullen. Am Chem Soc J 64:1410-13 Je '42

METHYLENE group
Chemistry of acrylonitrile; cyanoethylation of active methylene groups. H. A. Bruson. bibliog Am Chem Soc J 64:2457-61 O '42

METHYLENE halides
Heat capacity of certain halomethanes. G. Glockler and W. F. Edgell. bibliog il Ind & Eng Chem 34:532-4 My '42

METHYLENIMINE
Cyclic methyleneimines; hydrolysis of quaternary compounds; preparation of secondary amines. J. Graymore. Chem Soc J p29-30 Ja '42

METOL

Analysis

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42

METROPOLITAN casualty insurance company of New York
Company analysis. Spectator (Property ed) 7:34-5 My 28 '42

METROPOLITAN districts
Allocating interviews by metropolitan districts. D. E. Robinson. Adv & Sell 35:28 S '42

City growing pains; a series of discussions of metropolitan area problems. 116p bibliog(p106-16) pa 50c Nat. municipal league, New York '41

Elements in the urban-fringe pattern. R. B. Andrews. map J Land & Pub Util Econ 18:169-83 My '42

General principles of tract delimitation. C. E. Batschelet. Am Statis Assn J 37:245-6 Je '42

Metropolitan districts and advertisers. F. R. Coutant. map Ptr Ink 198:54-8 Ja 9 '42

Metropolitan government. V. Jones. 364p bibliog(p343-4) $4 Univ. of Chicago press '42

Recent shifts in population; the drift toward the metropolitan district, 1930-40. A. H. Hawley and D. J. Bogue. R Econ Statis 24:143-8 Ag '42

Regional water supplies. A. Wolman. map Am Water Works Assn J 33:1875-93; Discussion. 1893-6 N '41

See also
New York (city)—Metropolitan district
Water districts

METROPOLITAN life insurance company
New records set. Comm & Fin Chr 155:697 F 14 '42

MEXICANS in the United States
Bilateral agreement concerning the temporary migration of Mexican farm workers to the United States. Int Labour R 46:469-71 O '42

Mexican migratory workers of south Texas. S. C. Menefee. 67p Work projects administration, Division of research, Washington, D.C. '41

MEXICO
Doing business in Mexico. R. W. Zimmermann. Harvard Business R 20 no 4:508-16 [Jl] '42

U.S.-Mexican travel hits peak in 1941. H. Jones. il For Comm W 8:6-8+ Ag 15 '42

See also
Cement industry and trade—Mexico
Commercial law—Mexico

MEXICO—See also—*Continued*

Cost of living—Mexico
Income tax—Mexico
Mines and mineral resources—Mexico
Mining industry and finance—Mexico
Petroleum industry and trade—Mexico
Railroads—Mexico
Rayon industry—Mexico
Soap industry and trade—Mexico

Bibliography

Mexicana review. [60c a year] Published semiannually by New York archives of Mexico, J. J. Dossick, ed, New York univ, Washington sq, New York

Boundaries

International boundary commission, United States and Mexico. C. A. Timm. 291p bibliog(p269-80) Univ. of Texas, Austin '41

Cultural relations

United States

Mexican-United States cultural relations; a round table, Southern Methodist university, Feb. 19-21, 1942. 31p Inst. of pub affairs, Southern Methodist univ, Dallas '42

Defenses

U.S. and Mexico form joint defense board. Comm & Fin Chr 155:350 Ja 22 '42

Economic conditions

Living and office-operating costs in Mexico. For Comm W 7:9-10 Je 27 '42

News by countries. Published in Foreign commerce weekly

Economic policy

American defence and Mexico. Economist 141:524-5 N 1 '41

Expropriation policy

Deal with Mexico. Business Week p22+ N 29 '41

Expropriated companies' position bolstered by court's decision. Oil & Gas J 40:17 F 5 '42

Mexican oil deal? Business Week p56 F 7 '42

Mexican Senate ratifies oil pact with U.S. Comm & Fin Chr 155:230 Ja 15 '42

Oil seizure payoff. Business Week p32 Ap 25 '42

United States and Mexico sign agreement but oil companies reject proposals. Comm & Fin Chr 154:1248 N 27 '41

U.S., Mexico agree on oil settlement. Comm & Fin Chr 155:1640 Ap 23 '42

United States-Mexico pact does not end oil controversy. H. D. Ralph. Oil & Gas J 40:31 N 27 '41

Foreign relations

United States

American defence and Mexico. Economist 141:524-5 N 1 '41

Mexico, U.S. to formulate program to develop Mexican resources and aid U.S. war effort. Comm & Fin Chr 155:1539 Ap 16 '42

Newest horizon to the south. H. F. Lee. Barron's 22:8 Je 1 '42

Recent war declaration points to closer economic collaboration with the United States and strengthens position of the external debt. Comm & Fin Chr 155:2108 Je 4 '42

See also

Mexico—Expropriation policy

Industries and resources

Mexico, U.S. to formulate program to develop Mexican resources and aid U.S. war effort. Comm & Fin Chr 155:1539 Ap 16 '42

Mexico's vanilla production. L. D. Mallory and K. Walter. il For Comm W 7:8-10+ Je 20 '42

Newest horizon to the south. H. F. Lee. Barron's 22:8 Je 1 '42

Preliminary figures from Mexican industrial census of 1940; persons employed and wages paid in Mexican extractive, electric-power, and manufacturing industries. Monthly Labor R 54:636-9 Mr '42

MEXICO (city)

Developments in Lake Texcoco; Caracol process produces salt and other sodium compounds, potash, etc. A. R. Gerstel. il Chem & Eng N 20:1300-2 O 25 '42

MIAMI, Florida

Planning your vacation in Florida; Miami and Dade county, including Miami Beach and Coral Gables. 202p bibliog(p184-8) $2.25 Bacon, Percy & Daggett, Northport, N.Y. '41

When to advertise in Miami and Seattle; a study in Federal reserve board reports, 1936 through 1940. C. E. Haring. Adv & Sell 35:24 Jl '42

Industries

Made in Miami; dress line, representing Florida needlework industry's bid for place in style parade. il Business Week p52+ Ja 17 '42

Water supply

Salt water intrusion at Miami. A. B. De Wolf. il Pub Works 73:22-3 Mr '42

MIAMI, Oklahoma

Western city revamps its municipal utilities. O. D. Baker. Pub Util 29:222-7 F 12 '42

MIAMI BEACH, Florida

Hotels

Converting Miami; Army Air corps takes over five hotels in resort area. il Business Week p26 Mr 7 '42

MICA

Dispersion and absorption in dielectrics; direct current characteristics. K. S. Cole and R. H. Cole. bibliog J Chem Phys 10:98-105 F '42

Haidinger interferences in silvered mica. A. H. Pfund. il diags Opt Soc Am J 32:383-7 Jl '42

Lamellar grading of powdered mica. F. Fraas and O. C. Ralston. pl U S Bur Mines Rep of Invest 3662:1-7 '42

Marketing strategic mica. L. G. Houk. pls U S Bur Mines Information Circ 7219:1-24 '42

Mica and its conservation; properties, uses, etc. Product Eng 13:97-9 F '42

Mica at Eau Claire. J. C. Browning. Can Min J 63:658-9 O '42

Mica-bearing pegmatites, in Spruce Pine district, North Carolina. Eng & Min J 142:49 D '41

Mica-bearing pegmatites of New Hampshire; a preliminary report. J. C. Olson. maps U S Geol S Bul 931-P:363-403, pl 61-3; pa 25c Supt. of doc. '42

Mica for planes; WPB freezes supplies for armed forces. il Business Week p96-8 Je 13 '42

Mica imports limited to U.S. agencies. Oil Paint & Drug Rep 142:7+ O 5 '42

Mica industry in Canada, 1940. 11p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Mica production. Science 95:sup10+ My 8 '42

Mica resources. Elec R (Lond) 129:439 O 24 '41

New Hampshire mica. J. C. Olson. Rock Prod 45:43 Ap '42

New uses for mica. Rock Prod 45:75 Ap '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Recovering mica from kaolin by flotation and tabling. B. Nordberg. il Rock Prod 45:40-3+ S '42

Sealing mica to glass or metal to form a vacuum-tight joint. J. S. Donal, jr. il R Sci Instr 13:266-7 Je '42

Strategic mica. il For Comm W 6:6-7+ Mr 14 '42

Temperature compensation of condensers. W. H. F. Griffiths. Wireless Eng 19:101-3 Mr '42

See also

Lepidolite

MICARTA

Laminated plastic, one answer to shortage of critical metals. F. P. Hunsicker. il diags Paper Tr J 115:41-4 S 17 '42

Laminated plastic pipe for chemicals. V. E. Enz. il Chem Ind 51:200-1 Ag '42

Micarta goes to sea. V. E. Enz and F. P. Hunsicker. il Marine Eng 47:121-3 Je '42

Micarta repairs screw machine clutch. J. L. Witchey. diags Am Mach 86:956 S 3 '42

Plastics in the paper industry. W. C. Pugh. Paper Tr J 114:11-13 Ja 1 '42

MICE

Origin of the Japanese waltzing mouse. E. Schwarz. Science 95:46 Ja 9 '42

Protection of mice against infection with air-borne influenza virus by means of propylene glycol vapor. O. H. Robertson and others. bibliog Science 94:612-13 D 26 '41

MICELLES

Orientation of micelles in soap fibers. S. Ross. bibliog J Phys Chem 46:414-17 Mr '42

Surface tension of micelle-forming solutions. H. M. Cassel. bibliog J Chem Phys 10:246 Ap '42

MICHIGAN

Spirit leveling in Michigan, 1896-1938. J. G. Staack. map U S Geol S Bul 919:1-523, pl 1-2; pa 65c Supt. of doc. '41

Transition in the northern Lake states. L. A. Salter, jr. J Land & Pub Util Econ 18:92-6 F '42

See also

Iron mines and mining—Michigan

Petroleum industry and trade—Michigan

Taxation—Michigan

Industries and resources

How Michigan works for victory. F. H. McConnell. il maps Barron's 22:11-14 My 18 '42

Interstate trade barriers and Michigan industry, 1941. E. H. Gault and E. S. Wolaver. U S Bur For & Dom Com, Economic Ser 15:1-42; pa 10c Supt. of doc. '42

MICHIGAN university

Michigan offers up-to-date transportation curriculum. J. S. Worley. Ry Age 112:414+ F 21 '42

Military training at the University of Michigan. Science 96:222-3 S 4 '42

Public health engineering stressed at University of Michigan. H. E. Miller. Eng N 128:352 F 26 '42

School of public health. Science 94:455-6 N 14 '41

University of Michigan; retirements, appointments, leaves of absence. Science 96:199-200 Ag 28 '42

See also Rackham, Horace H., educational memorial

MICROAMMETERS

Micro-ammeter shows synchronism, voltage. H. R. Stewart. diag Elec W 118:154-5 Jl 11 '42

MICROANALYSIS

Analytical use of sodium rhodizonate. F. Feigl and H. A. Suter. bibliog Ind & Eng Chem Anal ed 14:840-2 O 15 '42

Application of infrared radiation to spot-testing. W. W. Razim. Ind & Eng Chem Anal ed 14:278 Mr 15 '42

Color reactions of organic nitrogen compounds with selenious acid-sulfuric acid solution. B. T. Dewey and A. H. Gelman. bibliog Ind & Eng Chem Anal ed 14:361-2 Ap 15 '42

Colorimetric microdetermination of arsenic after evolution as arsine. E. B. Sandell. diag Ind & Eng Chem Anal ed 14:82-3 Ja 15 '42

Detection of carbon dioxide and sulfur dioxide from mixtures of carbonates and sulfites. G. B. Heisig and A. Lerner. diag Ind & Eng Chem Anal ed 13:843 N 15 '41

Detection of orthophosphates by means of drop reactions. P. W. West and T. Houtman. bibliog Ind & Eng Chem Anal ed 14:597-9 Jl 15 '42

Determination of alkoxyl groups in cellulose ethers. E. P. Samsel and J. A. McHard. bibliog il diags Ind & Eng Chem Anal ed 14:750-4 S 15 '42

Determination of arsenic in biological material; a photometric method. D. M. Hubbard. bibliog il Ind & Eng Chem Anal ed 13:915-18 D 15 '41

Determination of arsenic in organic compounds; an iodometric semimicroprocedure. H. A. Sloviter, W. M. McNabb and E. C. Wagner. bibliog Ind & Eng Chem Anal ed 14:516-19 Je 15 '42

Determination of carbon in low-carbon iron and steel; low-pressure combustion method. L. A. Wooten and W. G. Guldner. bibliog diags Ind & Eng Chem Anal ed 14:835-8 O 15 '42

Electrophotometric microdetermination of phosphorus in lipide extracts. W. M. Sperry. bibliog Ind & Eng Chem Anal ed 14:88-90 Ja 15 '42

End point of microtitrations with color indicators. A. A. Benedetti-Pichler and S. Siggia. bibliog diags Ind & Eng Chem Anal ed 14:828-32 O 15 '42

Estimation of magnesium with 8-hydroxyquinoline; microtitration and photometric procedures. L. Gerber, R. I. Claasen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:658-61 Ag 15 '42

Fuzz detector for viewing glass weighing vessels in organic quantitative microanalysis. D. F. Hayman and W. Reiss. diag Ind & Eng Chem Anal ed 14:357 Ap 15 '42

Improved photometric method for ascorbic acid. C. Carruthers. bibliog Ind & Eng Chem Anal ed 14:826-8 O 15 '42

Introduction to micro-analysis; abstract. D. T. Gibson. Chem & Ind 60:832 N 22 '41

Introduction to semimicro qualitative chemical analysis. L. J. Curtman. 377p $2.75 Macmillan '42

Introduction to the microtechnique of inorganic analysis. A. A. Benedetti-Pichler. 302p $3.50 Wiley '42

Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41

Mercury azotometer for determination of organic nitrogen by the micro-Dumas method. R. G. Clarke and W. R. Winans. bibliog diag Ind & Eng Chem Anal ed 14:522-3 Je 15 '42

Microanalysis of gases; nitric oxide-hydrogen, nitric oxide-nitrogen, and nitrous oxide-ammonia mixtures. R. N. Smith and P. A. Leighton. diags Ind & Eng Chem Anal ed 14:758-9 S 15 '42

Microestimation of bromide as pentabromorosaniline. W. J. Turner. bibliog Ind & Eng Chem Anal ed 14:599-600 Jl 15 '42

Microgasometric determination of nitrogen in blood and saliva. P. F. Scholander. diags R Sci Instr 13:362-4 Ag '42

Micro-Kjeldahl determination of nitrogen; new indicator and an improved rapid method. T. S. Ma and G. Zuazaga. bibliog diags Ind & Eng Chem Anal ed 14:281-2 Mr 15 '42

Micro-Kjeldahl nitrogen determination without use of titration procedure. W. H. Taylor and G. F. Smith. Ind & Eng Chem Anal ed 14:437-9 My 15 '42

Micromethod for determination of arsenic. Sister Emily Cahill and Sister Louisella Walters. bibliog diag Ind & Eng Chem Anal ed 14:90-1 Ja 15 '42

Micromethod for identification of volatile liquids; vapor pressure, boiling point, and olefin content of cyclobutane and *cis*-2-butene. S. W. Benson. bibliog diag Ind & Eng Chem Anal ed 14:189-91 F 15 '42

Micromethod of chromatographic analysis. M. O. Crowe. bibliog il Ind & Eng Chem Anal ed 13:845-6 N 15 '41

Micromethods of quantitative organic analysis. J. B. Niederl and V. Niederl. 2d ed 347p $3.50 Wiley '42

Microscope identifies compounds by polarized light. il Sci Am 166:190 Ap '42

MICROANALYSIS—*Continued*

Microtechnique of organic qualitative analysis; identification of compounds containing nitrogen. C. R. García and F. Schneider. bibliog diags Ind & Eng Chem Anal ed 14: 94-7 Ja 15 '42

Modifications in the Dumas micromethod for nitrogen; automatic apparatus applicable for combustion micromethods. G. L. Royer, A. R. Norton and F. J. Foster. bibliog il Ind & Eng Chem Anal ed 14:79-82 Ja 15 '42

Modified micro-fermentation method for the estimation of thiamine. E. S. Josephson and R. S. Harris. Ind & Eng Chem Anal ed 14:755-6 S 15 '42

New microtest for iodide. D. Hart and R. Meyrowitz. bibliog Ind & Eng Chem Anal ed 14:606 Jl 15 '42

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42; Abstract. Chem Age (Lond) 47:131 Ag 8 '42

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

Photometric method for estimation of minute amounts of mercury. A. E. Ballard and C. D. W. Thornton. bibliog il diags Ind & Eng Chem Anal ed 13:893-7 D 15 '41

Qualitative analysis of microgram samples; general technique and confirmatory tests. A. A. Benedetti-Pichler and M. Cefola. bibliog il diags Ind & Eng Chem Anal ed 14:813-16 O 15 '42

Quantitative determination of a cellulose in raw cotton fiber; a simple and rapid semimicro method. J. H. Kettering and C. M. Conrad. bibliog Ind & Eng Chem Anal ed 14:432-4 My 15 '42

Rapid method for the microanalysis of lead. L. T. Fairhall and R. G. Keenan. bibliog Am Chem Soc J 63:3076-9 N '41

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

Refractive index measurements at and above the melting point of solids. H. A. Frediani. bibliog il Ind & Eng Chem Anal ed 14:439-41 My 15 '42

Riboflavin analysis of cereals; application of the microbiological method; comparison with fluorometric method. J. S. Andrews, H. M. Boyd and D. E. Terry. bibliog Ind & Eng Chem Anal ed 14:271-4 Mr 15 '42

Semimicrochemical assay for diethylstilbestrol. C. W. Sondern and C. Burson. Ind & Eng Chem Anal ed 14:358-9 Ap 15 '42

Spot tests; some applications of a new principle. Chem Age (Lond) 46:303 Je 20 '42

Sulfur in organic compounds containing nitrogen and halogen; acidimetric microdetermination. E. L. Brewster and W. Rieman, 3d. bibliog diag Ind & Eng Chem Anal ed 14:820-1 O 15 '42

Synthetic corrosion pits and the analysis of their contents. E. D. Parsons, H. H. Cudd and H. L. Lochte. bibliog diags J Phys Chem 45:1339-45 D '41

Universal apparatus for micro- or semimicro-determination of carbon and hydrogen. G. Ingram. bibliog diags Soc Chem Ind J 61:112-15 Jl '42

Bibliography

Microanalysis. G. H. Wyatt. Chem & Ind 61:132-4 Mr 14 '42

MICROBALANCE. See Balances

MICROBIOLOGY. See Microorganisms

MICROBURETS. See Burets

MICROCHEMISTRY

Heating device for microbeakers, flasks, and centrifuge tubes. C. R. Noller. diag Ind & Eng Chem Anal ed 14:834 O 15 '42

Semimicro experiments in general chemistry. W. B. King. 137p $2.50 Prentice-Hall '41

Simplified microhydrogenation apparatus. I. B. Johns and E. J. Seiferle. bibliog diag Ind & Eng Chem Anal ed 13:841-3 N 15 '41

See also

Microanalysis

MICROFILM reader

Spencer lens co. microfilm reader. il R Sci Instr 13:271 Je '42

MICROFILM records

How to microfilm office records; abstract. R. S. Jackson. Management R 31:336-7 O '42

Magic mirrors; machine that can photograph two sides at the same time. Dun's R 50:24 O '42

More microfilm. Business Week p72-4 F 7 '42

Mutual life of N.Y. micro-films records. East Underw 43:7 Je 12 '42

Turn to microfilm to protect records against air raids. Nat Underw 45:12 D 18 '41

MICROFILMS

Comparative cost of loan service and of microfilm copying in libraries. A. Seidell. Science 94:515-16 N 28 '41

Extension of popular Airgraph now planned. For Comm W 6:31 Ja 17 '42

Improved method of handling microfilm copy. H. T. U. Smith. Am Assn Pet Geologists Bul 25:2068-70 N '41

Little pictures, big savings; civilian and military uses. L. N. McMahon. il Sci Am 167: 121-2+ S '42

Microfilm in uniform. L. N. McMahon. il Am Phot 36:30-1, 34 O '42

Microfilm notes. O. L. Lilley. Special Lib 33:128-9+ Ap '42

Microfilm photography; air conditioning in the Photographic laboratory, Brown university. Science 96:266 S 18 '42

Microfilm records of the Linnean society of London. E. D. Merrill. Science 96:352 O 16 '42

Photographic reproduction for libraries; a study of administrative problems. H. H. Fussler. 218p bibliog(p205-6) $3 Univ. of Chicago press '42

2,000,000 documents upon microfilm; story of the electrical industry's growth since the early 1880's at the Westinghouse East Pittsburgh works. il Am Phot 36:23 S '42; Same cond. Power Pl Eng 46:81 S '42; Same cond. Steel 110:101 Je 15 '42

Use of microfilms in the library of the American philosophical society. G. T. Garver, jr. Special Lib 33:76-8 Mr '42

V—mail. Fortune 26:72+ N '42

Bibliography

Union list of microfilms; a basic list of holdings in the United States and Canada. 379p pa $4 Philadelphia bibliographical center and Union lib. catalogue, Committee on microphotography, Philadelphia '42

MICROHYDROGENATION. See Hydrogenation

MICROMANOMETERS. See Manometers

MICROMET. See Sodium phosphates

MICROMETERS

Attachment for inside micrometer. J. J. Kriz. diags Am Mach 86:348-9 Ap 16 '42

Differential screw micrometer mechanism. diag Mach 48:144 D '41

Electronic micrometer. Mech Eng 64:224 Mr '42

Height gage made from micrometer. D. E. McDonald. diags Am Mach 86:834-5 Ag 6 '42

Micrometer for measuring subway-car wheels. A. M. Thomas. il Mach 48:138 My '42

MICROORGANISMS

Contributions to the development of soil microbiology from the southeastern United States. F. B. Smith. Science 96:95-8 Jl 31 '42

Germ chemicals from the soil. J. Stafford. Science 95:sup12 Ja 2 '42

MICROORGANISMS—*Continued*

Identification of micro-organisms in relation to water purification. J. B. Lackey. bibliog diags Am Water Works Assn J 34:1559-68 O '42

Microbes which help or destroy us. P. W. Allen, D. F. Holtman and L. A. McBee. 540p bibliog(p531-4) $3.50 C. V. Mosby co, St Louis '41

Microbiological deposits and bacteriological corrosion. A. E. Griffin. bibliog il Paper Tr J 115:32-7 S 24 '42

Microbiology and baking; abstract. A. J. Amos. Chem & Ind 60:863; Discussion. 863-4 D 6 '41

Microbiology and man. J. Birkeland. 478p bibliog(p463-6) $4 Crofts '42

Plant design in microbiological processes. S. A. Gregory. bibliog Inst Chem Eng Trans 18:131-5 '40

Studies on biological methylation; a summary of recent work and some hypotheses regarding its mechanism. F. Challenger. Chem & Ind 61:397-9, 413-15, 456-8 S 26, O 10, N 7 '42

Turbidity comparator; useful in assaying physiologically active substances by measuring the growth of micro-organisms. R. P. Krebs and others. bibliog il diags R Sci Instr 13:229-32 My '42

Use of complete fertilizers in cultivation of microorganisms. V. L. Loosanoff and J. B. Engle. Science 95:487-8 My 8 '42

See also

Bacteria
Fermentation
Fungi
Microscope and microscopy
Mildew
Unicellular organisms
Viruses

Bibliography

Bactericidal substances derived from microorganisms; annotated bibliography. 47 numb l Merck & co, Rahway, N.J. '42

MICROORGANISMS, Fossil. See Micropaleontology

MICROORGANISMS, Pathogenic

Medical parasitology. J. T. Culbertson. 285p bibliog(p271-2) $4.25 Columbia univ. press '42

Microbe's challenge. F. Eberson. 354p bibliog(p351-4) $3.50 Jaques Cattell press, Lancaster, Pa. '41

Microbiology and nursing. E. C. Piette and J. M. White. 2d ed 331p $3 Davis '41

Microbiology, pathology, and nursing. E. C. Piette and J. M. White. 2d ed 581p $3.50 Davis '42

Principles of microbiology. F. E. Colien and E. J. Odegard. 444p $3 C. V. Mosby co, St Louis '41

See also

Bacteria, Pathogenic
Coccidioides

MICROPALEONTOLOGY

Micropaleontology and what it is doing for the oil geologist; abstract. C. Croneis. Min & Met 23:22 Ja '42

Neglected Gulf Coast tertiary microfossils. H. V. Howe. bibliog Am Assn Pet Geologists Bul 26:1188-99, pl 1-4 Jl '42

New frontiers in micropaleontology, with especial reference to petroleum exploration. C. Croneis. bibliog Econ Geol 37:16-38 Ja '42

MICROPHONES

Absolute pressure generator and its application to the free-field calibration of a microphone. W. J. Kennedy and C. P. Boner. diags Acoustical Soc Am J 14:19-23 Jl '42

New directional microphone. diag J Ap Phys 12:844 D '41

Plastics competition award to Philco radio & television corp. il Mod Plastics 19:136-7 N '41

Public address systems. S. Hill. bibliog diags Inst E E J 89 pt 3:124-34; Discussion. 134-8 S '42

Super-cardioid directional microphone. B. B. Bauer. bibliog il diags Electronics 15:31-3+ Ja '42

See also

Loud speaking apparatus
Radio apparatus
Radio broadcasting
Sound—Recording and reproducing

MICROPHOTOGRAPHY

See also

Microfilms
Photomicrography

MICROPHOTOMETERS. See Photometers

MICROPIPET. See Pipets

MICROPOROUS materials. See Porous materials

MICROPROJECTORS

Dust counts and their significance. N. R. Bernz. il Heating-Piping 14:361-2 Je '42

MICRORESPIROMETERS. See Respirometers

MICROSCALPELS. See Knives

MICROSCOPE and microscopy

Apparatus for particle size analysis. Engineering 154:242 S 25 '42

Application of the polarizing microscope to reaction study. G. W. Thiessen and L. F. Beste. diag J Chem Educ 19:331-2 Jl '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; microstructure of used roof bricks. W. Hugill. bibliog Iron & Steel Inst J 144:250-8, pl 26-8 no 2 '41

Cross sectioning of paper. J. H. Graff and M. A. Schlosser. il Paper Tr J 114:119-23 F 19 '42

Electron and optical microscope interpretation of the wall of pleurosigma angulatum. D. H. Hamly and J. H. L. Watson. bibliog il diags Opt Soc Am J 32:433-42 Ag '42

Fiber composition of paper; revision of TAPPI standard T 401 m-39. bibliog Paper Tr J 115:23-7 Jl 9 '42

Identification of micro-organisms in relation to water purification. J. B. Lackey. bibliog diags Am Water Works Assn J 34:1559-68 O '42

Identification of sugars by microscopic appearance of crystalline osazones. W. Z. Hassid and R. M. McCready. bibliog il Ind & Eng Chem Anal ed 14:683-6 Ag 15 '42

Iodoform reaction by methods of microscopy. H. F. Schaeffer. il J Chem Educ 19:15-16 Ja '42

Method for investigating the thickness, chemical properties, and surface structure of thin biological objects. D. F. Waugh. bibliog il diag Opt Soc Am J 32:495-502 S '42

Microscopic structure of flax and related bast fibers. C. W. Hock. bibliog il Am Dyestuff Rep 31:334-42 Jl 6 '42; Same. J Research Nat Bur Stand 29:41-50 Jl '42

Microscopy of textile fibers and their identification. W. Krauss. il Rayon 23:599-602 O '42

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

Polarizing accessories for microscopes. C. D. West. bibliog il J Chem Educ 19:66-70 F '42

Technical microscopy in the rubber industry. R. P. Allen. bibliog il Ind & Eng Chem Anal ed 14:740-50 S 15 '42

Working with the microscope. J. D. Corrington. 418p bibliog(p381-92) $3.50 McGraw-Hill '41

See also

Camera lucida
Metallography
Microanalysis
Microchemistry
Photomicrography
Stains and staining (microscopy)

Bibliography

Microscopy committee report, 1941; publications. F. W. Bentzen. Paper Tr J 114:35-6 Ja 22 '42

MICROSCOPE and microscopy—*Continued*

Electron microscope

See Electron microscope

Lighting

Fluorescent microscope lamp. L. H. Berkelhamer. il Ind & Eng Chem Anal ed 14:833-4 O 15 '42

Microscope identifies compounds by polarized light. il Sci Am 166:190 Ap '42

Sodium light improves microscopic inspection. H. A. Breeding. Iron Age 150:44 S 24 '42; Same cond. Roads & Bridges 80:128-9 O '42

Technique

Electric recording marking counter for the consecutive counting of small objects; counting projected cross sections of wool fibers. H. W. Wolf. diag Science 96:409-10 O 30 '42

Elimination of dehydration in histological technique; use of polyvinyl alcohols (PVA). V. Lubkin and M. Carsten. Science 95:633-4 Je 19 '42

Microscopic examination of silica refractories. P. F. F. Clephane. diags Gas J (Lond) 239:282, 287-8 Ag 19 '42

Preparation of pigment mounts for microscopy. R. P. Allen. il Ind & Eng Chem Anal ed 14:92-4 Ja 15 '42

Simple means of retaining oil between slide and condenser. R. H. MacKnight. Science 95:588 Je 5 '42

Technique for staining, dissecting, and mounting the male terminalia of mosquitoes. W. H. W. Komp. bibliog pl Pub Health Rep 57:1327-33 S 4 '42

Use of tertiary butyl alcohol in microtechnique. R. E. Stowell. Science 96:165-6 Ag 14 '42

Ultraviolet microscope

Phosphorescence microscope. E. N. Harvey and A. M. Chase. bibliog diags R Sci Instr 13:365-8 Ag '42

MICROSCOPIC slides

Observations on the preparation of slides for particle-size determination. L. Silverman and W. Franklin. J Ind Hygiene 24:51-2 Mr '42

MICROTOMES. See Microscope and microscopy

MID-CONTINENT petroleum corporation

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1602 Ap 20 '42

MIDDLE age

Middle age is what you make it. B. Sokoloff. 204p $1 Garden City pub. co, Garden City, N.Y. '42

Treatment of the patient past fifty. E. P. Boas. 324p $3 Year book publishers, Chicago '41

See also

Age

Old age

MIDDLE classes

Social and property security. A. N. Holcombe. Trusts & Estates 74:463-4 My '42

MIDDLE EAST. See Near East

MIDDLE WEST

Industries and resources

Midwestern manufacturers speed conversion to war output. il Steel 110:34-6 Mr 16 '42

MIDDLE WEST corporation

Consolidated income statement, 1940 and 1941. Comm & Fin Chr 156:255-6 Jl 20 '42

Outline plan. Elec W 118:1458 O 31 '42

Proposed plan outlined, asks that integrated system be main electric lines of P.S. of Oklahoma, plus other facilities. Comm & Fin Chr 156:1505 O 26 '42

MIDGLEY, Thomas, jr. 1889-

Midgley selected for Gibbs medal. por Oil Paint & Drug Rep 141:5+ Ja 26 '42

Portrait. Chem & Eng N 20:109 Ja 25 '42; Ind & Eng Chem 34:891 Jl '42

MIDLAND bank limited

Profits for year 1941. Comm & Fin Chr 155:866 F 26 '42

Statement circulated to shareholders. R. McKenna. Economist 142:119-20 Ja 24 '42

MIDLAND united company

Trustees plan to sell road. Comm & Fin Chr 156:784 Ag 31 '42

MIDWAY island

See also

Botany—Midway island

MIDWAY island, Battle of, 1942

Navy and the navy; it fights superbly, as Midway proved; ashore it has been another story. il Fortune 26:67-8 Ag '42

MIDWEST agricultural limestone institute

How Middle West built up market for liming material; producer, farmer, and government cooperate through activities of Midwest agricultural limestone institute. J. R. Bent. il Rock Prod 45:33-5 My '42 (to be cont)

MIDWEST power conference

Conference, Chicago, April 9-10. Power Pl Eng 46:94-107 My '42; Elec W 117:1357-8 Ap 18 '42; Power 86:417-18 Je '42

Midwest power conference. H. F. Jones. J Land & Pub Util Econ 18:224-5 My '42

MIGRANT problem

California antimigrant law unconstitutional. Monthly Labor R 54:127 Ja '42

Labor under the Farm Security program. F. E. Parker. Monthly Labor R 53:1368-87 D '41

Problems of defense migratory labor. Management R 31:126-7 Ap '42

MIGRATION

Differentials in internal migration; a dissertation. A. H. Hobbs. 122p bibliog (p119-22) Univ. of Pennsylvania, Philadelphia '42

See also

Immigration and emigration

MIGRATION of workers

America's own refugees; our 4,000,000 homeless migrants. H. H. Collins, jr. 323p $3 Princeton univ. press '41

Defense migration and labor supply. H. B. Myers. Am Statis Assn J 37:69-76 Mr '42

Ill fares the land; migrants and migratory labor in the United States. C. McWilliams. 419p bibliog(p391-411) $3 Little '42

Mexican migratory workers of south Texas. S. C. Menefee. 67p Work projects administration, Division of research, Washington, D.C. '41

Migrant labour in Africa and its effects on tribal life. M. Read. map Int Labour R 45:605-31 Je '42

Migration and settlement in the Yakima valley, Washington. Monthly Labor R 54:405-6 F '42

Migration to war-industry areas. Monthly Labor R 55:58-60 Jl '42

National defense migration. Monthly Labor R 54:49-52 Ja '42

Study problem of war labor migration. Eng N 129:145 Jl 30 '42

Unemployment compensation rights of workers employed in more than one state. I. C. Merriam and E. T. Bliss. 87p U.S. Social security board, Bur. of research and statistics, Washington; pa 30c Supt. of doc. '41

War migration; great population and industrial shifts in progress. Index 22 no 2:42-8 [Je] '42; Excerpts. Bankers M 145:75-6 Jl '42

See also

Migrant problem

MILDEW

Chemical repellents. F. J. Van Antwerpen. il Ind & Eng Chem 33:1515-16 D '41

Determination of copper in textile materials treated to prevent mildew. C. L. Hoffpauir and R. T. O'Connor. bibliog Am Dyestuff Rep 31:395-8 Ag 17 '42

Determining the deterioration of cellulose caused by fungi; improvements in methods. G. A. Greathouse, D. E. Klemme and H. D. Barker. bibliog il Ind & Eng Chem Anal ed 14:614-20 Ag 15 '42

MILDEW—*Continued*

Develops treatment to prevent mildew; PROTELA SB extends life of fabrics of vegetable origin. Roads & Sts 85:92 O '42

Estimation of copper in mildewproofed fabrics. B. J. Brown. Textile World 92:92 S '42

Mildewproofing agent; Protela SB. Textile World 92:88 Ag '42

Mildewproofing army fabrics; copper naphthenate process. il Textile World 92:101 F '42

Mildewproofing army fabrics; determination of percentage of copper. R. A. Allen. Textile World 92:73 Ap '42

Mildewproofing military fabrics; phenyl mercuric acetate effective. W. S. Marsh and A. E. Duske. bibliog il Textile World 92:58-60 Ag '42

Mildewproofing of military fabrics. C. W. Hock and M. Harris. bibliog Textile Col 64:401-3 Ag '42; Same. Rayon 23:670, 711-12 N-D '42; Abstract. Soap & San Chem 18:71 N '42

New culture medium for the growth of chaetomium globosum. W. G. Chace and G. S. Urlaub. bibliog il Am Dyestuff Rep 31:331-3 Jl 6 '42

MILDEW spores. See Spores

MILITARISM

Guilt of the German army. H. E. Fried. 426p bibliog(p383-410) $3.50 Macmillan '42

MILITARY aeronautics. See Aeronautics, Military

MILITARY airplanes. See Airplanes, Military

MILITARY architecture

See also

Armories

Arsenals

Barracks

Military buildings

also Naval training station, Great Lakes, Illinois

MILITARY areas

Atlantic seaboard to be military area. Comm & Fin Chr 155:1710 Ap 30 '42

MILITARY art and science

Art of war. A. Birnie. 268p bibliog(p264) 7s 6d Nelson '42

Channel raids show changed warfare. J. A. Ward. il map Aero Digest 41:86-9+ O '42

How good is the army? il Fortune 24:67-9+ D '41

Lanchester's law; concentration of force. Engineering 154:123-4 Ag 14 '42; Discussion. 154:174 Ag 28 '42

MacArthur on war. F. C. Waldrop, ed. 419p $3 Duell, Sloan and Pearce, New York '42

Nature of military defense. A. R. Ginsburgh. Ann Am Acad 220:1-7 Mr '42

Principles of war. C. von Clausewitz. 82p $1 Military service pub. co, 100 Telegraph bldg, Harrisburg, Pa. '42

Rôle of geology in the first World war. D. Johnson. 18p Geological soc. of Am, New York '42

Tools of war. J. R. Newman. 398p bibliog (p364-6) $5 Doubleday '42

War on the civil and military fronts. G. M. Lindsay. 112p 5s Cambridge univ. press, Cambridge, Eng. '42

What the citizen should know about modern war. F. Pratt. 184p $2.50 Norton '42

See also

Aeronautics, Military

Camouflage

Chemical warfare

Naval art and science

Ordnance

Radio communication, Military

Strategy

Transportation, Military

War

World war, 1939-
—Strategy

Bibliography

Book list on modern military science. W. K. Dennis, comp. Special Lib 33:240-2 S '42

Early military books in the University of Michigan libraries. T. M. Spaulding and L. C. Karpinski. 45p, 37pls $2 Univ. of Michigan press, Ann Arbor '41

Necessary stock items for three important bookstore departments. Publishers' Weekly 141:1646-8 My 2 '42

Dictionaries

Army talk; a familiar dictionary of soldier speech. E. Colby. 232p $2 Princeton univ. press '42

Diccionario militar; English-Portuguese, português-inglês. 183p, 190p $3.50 Editorial tecnica unida, Brooklyn, N.Y. '42

Dictionary of military terms; English-Japanese, Japanese-English. H. T. Creswell, J. Hiraoka and R. Namba. 1226p, 175p $7 Univ. of Chicago press '42

History

Democracy and military power. S. B. McKinley. new & enl ed 350p bibliog(p345-50) $3 Vanguard press, New York '41

How wars are fought; the principles of strategy and tactics. J. E. A. Whitman. 120p $1.35 Oxford (Toronto) '41

MILITARY automobiles. See Automobiles, Military

MILITARY aviators. See Aviators, Military

MILITARY balloons. See Balloons, Military

MILITARY buildings

Army warehouse design saves steel. il Eng N 128:204-6 Ja 29 '42

Construction for U.S. armed forces poses biggest British building problem. Eng N 129:336 S 10 '42

Construction techniques changed by camouflage requirements. il Eng N 128:989 Je 18 '42

Place acres of concrete warehouse floors at quartermaster depot. il Concrete 50:5+ F '42

Projected construction; types of housing suitable for use in semitropical areas. il diags plans Arch Forum 77:38-48 Jl '42

Rapid hardening is urgent in military and winter work. Concrete 50:44 Mr '42

Roads to plumbing and heating supplies; army and navy roads. flow chart il Dom Eng 159:40-1+ Mr '42

Substantial service roads speed army base construction; warehouses for a quartermaster base; concrete and wood construction. il Eng N 128:768-71 My 7 '42

War job maintenance plan conserves vital construction machines; maintenance of 482 mobile machines. il Eng N 129:116-17 Jl 16 '42

Wide variety of standard heating and air conditioning equipment in war use; army posts and naval stations. F. Pederson. il Heating-Piping 14:153-4 Mr '42

See also

Armories

Arsenals

Barracks

Military training camps

also Naval training station, Great Lakes, Illinois

MILITARY cloths. See Army fabrics

MILITARY communication. See Communication, Military; Radio communication, Military

MILITARY education

See also

Military engineering
—Study and teaching

Military training

also Royal military academy, Woolwich; United States military academy, West Point

MILITARY engineering

Builders for the army. D. Wharton. il Sci Am 165:311-14 D '41

Building army camps. il Engineer 174:318-19 O 16 '42

Development of army camp planning. C. G. Beardslee. il plans Civil Eng 12:489-92 S '42

Engineers in the army. G. F. Lewis. il Eng N 128:846-8 My 21 '42

Historical development of military railway service. L. T. Ross. Ry Age 112:257-60 Ja 24 '42

Military engineering in East Africa. Eng N 128:553 Ap 9 '42

MILITARY engineering—*Continued*

Military rockets; anti-aircraft traps, rocket shells, weather study, airplane starters, are possibilities. A. Klemin. diags Sci Am 166: 97-8 F '42

Seabees are coming. W. G. Bowman. il Eng N 129:415-22 S 24 '42

Use of aerial photographs in war-time soils engineering. D. J. Belcher. il Roads & Sts 85:35-7 Jl '42

See also

Ordnance

Radio apparatus—Military use

Bibliography

Catalogue of the William Barclay Parsons collection. 108p $2 New York public lib, New York '41

Study and teaching

Engineering corps and the college. R. C. Crawford. J Eng Educ 33:20-6; Discussion. 44-5 S '42

MILITARY geography

America at war; a geographical analysis. S. Van Valkenburg, ed. 296p $2.50 Prentice-Hall '42

Bibliography

Bibliography of military geology and geography. 18p Geological soc. of Am, New York '41

MILITARY hospitals. See Hospitals, Military

MILITARY hygiene

Sanitation activities in the southeastern states in connection with national defense. E. C. Sullivan and J. S. Wiley. Pub Health Rep 57:617-25 Ap 24 '42

See also

Military training camps—Sanitation

War and disease

MILITARY insurance. See Insurance, Military and naval service

MILITARY law

Military law and defense legislation. A. A. Schiller. 647p $5 West '41

Soldier and the law. J. A. McComsey and M. O. Edwards. 401p $1.50 Military service pub. co, Harrisburg, Pa. '41

Bibliography

Bibliography of military law, militia law, and the law of the home guard. H. C. Shriver, comp. 56 numb l Law lib, Lib. of Congress, Washington, D.C. '41

MILITARY maneuvers

Air corps learned plenty on maneuvers, but did the ground troops? G. Underhill. il Aviation 40:54-7+ D '41

Army blitzes Carolina retailers. il Business Week p30+ N 22 '41

Believe extended coverage includes army practice; damage from practice gun fire. Nat Underw 45:10 N 6 '41

Breakthrough! two 1941 armies on terrain of Gettysburg. maps Fortune 24:76-81 D '41

Business and the maneuvers in Carolinas. il map Business Week p22, 24, 26 N 15 '41

Prelude to war; South Carolina maneuvers. il Aviation 41:138-9 Ja '42

What maneuvers are teaching us about military highways. J. W. Wheeler. Roads & Sts 85:50+ Ap '42

MILITARY maps. See Maps, Military

MILITARY market

Army post exchange becomes $1,000,000,000-a-year market. L. M. Hughes. il Sales Management 51:21-3 Jl 1 '42

Army post exchange: new outlet for a host of civilian products. il Sales Management 50:21-2 Ja 1 '42

If you want to sell the army, paste these facts in your hat. R. McDaniel. Sales Management 50:44-5 F 1 '42

Post exchanges: what they sell; how they buy. P. James. il Adv & Sell 35:21+ Jl '42

Sales of branded merchandise in the army and navy. Adv & Sell 35:70 Mr '42

What they're offering the men in service. P. Bradstreet. il Adv & Sell 35:22-3 S '42

What type and quality of goods do soldiers buy at post exchanges? L. B. Colby. il Sales Management 51:22-4 Ag 1 '42

MILITARY medicine. See Medicine, Military

MILITARY morale. See Morale

MILITARY motor trucks. See Motor trucks, Military

MILITARY pensions. See Pensions, Military

MILITARY photography. See Photography, Military

MILITARY posts

Army camp operation; post utility officers; abstract. G. F. Lewis. Eng N 127:745 N 20 '41

Army post banking facilities. Banking 35:10 O '42

Army posts and towns; the Baedeker of the army. C. J. Sullivan, comp. 3d ed 199p $3 Haynes corp, 412 E 11th st, Los Angeles '42

Camp banks. H. Bratter. Banking 35:53 Ag '42

Construction at outlying bases; living and working conditions in Newfoundland, Bermuda, Jamaica, Puerto Rico, Antigua, St Lucia, Trinidad, and British Guiana. E. Reybold. il Eng N 128:109-11 Ja 15 '42

Development of army camp planning. C. G. Beardslee. il plans Civil Eng 12:489-92 S '42

How to improve relations with army post public relations offices; requesting material and approval for use of army data in your advertising. F. W. Pederson. Ind Marketing 27:36+ O '42

Latins learn safety when army builds bases. T. S. Crandall. il Nat Safety N 46:72-3 Jl '42

Navy wife. A. B. Pye and N. Shea. 335p bibliog(p326-8) $2.50 Harper '42

Projected construction; types of housing suitable for use in semitropical areas. il diags plans Arch Forum 77:38-48 Jl '42

Sanitation facilities for military posts. S. A. Greeley and E. S. Chase. il Civil Eng 12: 359-62 Jl '42

See also

Military training camps

Post exchanges

MILITARY railway service

Historical development of military railway service. L. T. Ross. Ry Age 112:257-60 Ja 24 '42

Military rail service gets set for conflict. C. R. Gray, jr. Ry Age 113:648-50+ O 24 '42

Organization and function of the military railway service. C. R. Gray, jr. W Soc E J 47:22-9 F '42; Excerpts. Ry Age 112:440-1+ F 28 '42; Engineer 174:280-1 O 2 '42

Who's who in army railroad service. Ry Age 112:914-15 My 9 '42

MILITARY sanitation. See Military hygiene

MILITARY service

Army raises enlisting age to fifty years; report by committee on utilization of colleges and universities for the purposes of war. Comm & Fin Chr 156:824 S 3 '42

Army woman's handbook. C. R. Collins. 203p $1.25 McGraw-Hill '42

Average height of American men; possibility of selecting men from different sections for different types of service. S. L. Calhoun. Science 95:529 My 22 '42; Discussion. L. B. Chenoweth. 95:648-9 Je 26 '42

Better tests; why are so many being rejected for the draft? Sci Am 167:162 O '42

Child health and the selective service physical standards. A. Ciocco, H. Klein and C. E. Palmer. Pub Health Rep 56:2365-75 D 12 '41

Education of men of draft age. Science 96: sup10 Jl 17 '42

Educators at Chicago conference discuss pre-military training. Elec Eng 61:219-20 Ap '42

Health of registrants and rehabilitation of rejectees. L. G. Rowntree and A. N. Baggs. Ann Am Acad 220:81-8 Mr '42

MILITARY service—*Continued*

Health of registrants and the President's plan of rehabilitation; abstract. L. G. Rowntree. Science 94:552-3 D 12 '41

How to get a rating or a commission in the army, navy, coast guard, marines, merchant marine. B. Galkin, comp. 85p pa $1 Greenberg, publisher, 400 Madison av, New York '42

Increased allowances for dependents in British military forces. Monthly Labor R 54: 388-9 F '42

Indians and selective service. J. R. McGibony. Pub Health Rep 57:1-7 Ja 2 '42

Making your service available to the government; procedure for civil engineers. Civil Eng 12:111-12 F '42

Manning the tank; recruiting crews. Economist 141:529 N 1 '41

Obligation of the universities. C. Epling. Science 94:487 N 21 '41

Our fragile youth; draftees rejected because of physical or mental defects. H. Fischer. Spectator (Life ed) 149:34-6+ O '42

Period of internships in New York city; recruitment of medical officers. Science 95:92 Ja 23 '42

Risk bearers; discrepancy between remuneration for service in the armed forces and in war industry. Economist 141:499 O 25 '41

Some America Fore men in armed services. East Underw 43:19-20 F 6 '42

U.S. and Canada agree on reciprocal draft rules. Comm & Fin Chr 155:1634 Ap 23 '42

War pay and allowances. Economist 141:746 D 20 '41

See also

Military training

United States—Army—Enlisted reserve corps

United States—Army—Specialist corps

Credit aspects

Borrowers in military service; extension of credit to person while in military service. Banking 35:44 N '42

Credit for service men. F. G. Addison. Banking 35:46 S '42

Loans for soldiers and sailors. W. F. Kelly. Banking 35:47 S '42

Insurance aspects

Agents rendering service to clients entering army. Nat Underw (Life ed) 46:2 S 18 '42

Amendments to Soldiers relief act agreed upon. Nat Underw (Life ed) 46:1+ O 2 '42

Armed service claims; International claim association advises companies on procedure. Weekly Underw 146:449 F 21 '42

Atlantic Life raises service officer limits. Nat Underw (Life ed) 46:15 O 2 '42

Changes in benefits for draftees. Management R 31:33-4 Ja '42

Claim association expedites handling of war death cases. Nat Underw (Life ed) 46:6+ Jl 10 '42; Same. Nat Underw 46:17-18 Jl 16 '42

Domestic benevolent assessment society cannot form unit of society composed entirely of service men. Weekly Underw 146:1426 Je 20 '42

Equitable's rule on insuring service men. East Underw 43:9 Ja 2 '42

Free life policy to men captured in Philippines. East Underw 43:4 Jl 17 '42

Group insurance for drafted employees; company policies. Management R 31:66-7 F '42

Handling payments in wartime offers problems. V. J. Skutt. Nat Underw (Life ed) 46:16+ O 9 '42

Hidden values in your life insurance; war and the possibility of inflation bring new problems. B. W. Levmore. Barron's 22:7 Je 29 '42

How differences as to relief act were composed. Nat Underw (Life ed) 46:10-11 O 9 '42

Insurance service plan inaugurated in Boston. Nat Underw (Life ed) 46:11 O 2 '42

Life insurance guaranty. R. C. Tait. Banking 35:49 S '42

May bring service men under social security benefits. East Underw 43:1+ S 18 '42

May stop gap in U.S. relief act. Nat Underw (Life ed) 46:1+ Ja 23 '42

Men in armed services could lose benefits under Social security. East Underw 43:16 N 6 '42

Methods of settling death claims reported; Industrial insurers' conference. Ins Field (Life ed) 71:8 S 11 '42

Metropolitan acts on disability cover of soldiers. Nat Underw (Life ed) 46:9 Mr 27 '42

Mutual Life rules on service men. East Underw 43:8 Ja 16 '42

Mutual's plan to speed death claims from war. East Underw 43:13 S 25 '42

National service and civil relief acts of 1940 seen as wise and fair federal program of insurance. D. Porter. Ins Field (Life ed) Conv ed 71:23-7 Ag 19 '42

N.Y. puts restrictions on sales to men in service or on deck. Nat Underw (Life ed) 46:1 Jl 10 '42

Provisions of the government personnel effects floater. F. C. Crowell, jr. Ins Field (Fire ed) 70:24-5 N 20 '41

Reinstatement problem clarified. R. B. Caplinger. Nat Underw (Life ed) 46:2+ O 16 '42

Service men's relief act amendment passes House. East Underw 43:10 Je 26 '42

Surveys war provisos in disability clause; abstracts. J. R. Burcham and P. McHaney. East Underw 43:7+ Ag 28 '42; Nat Underw (Life ed) 46:20 Ag 28 '42

Veterans bureau policy on air exclusion clauses. Nat Underw (Life ed) 46:4 Ap 10 '42

War clauses in life policies and insurance for those in military or naval service. H. R. Bassford. East Underw 43:24+ pt 2 O 9 '42

What is being done in the various states to solve the problems of beneficiaries in military service reported missing? G. T. Stephenson. Banking 35:124 S '42

When life insurance premiums are paid through government allotment. N. P. Wood. East Underw 43:10 S 11 '42

See also

Insurance, Military and naval service

Labor problems

Analyze manpower, train replacements. L. B. Hershey. il Steel 111:40-1 S 7 '42; Same. Gas Age 90:18+ S 24 '42; Same. Nat Pet N 34:7 S 30 '42; Same. Paper Tr J 115:12-13 S 10 '42; Same. Am Gas J 157:45-6 O '42; Same. Am Water Works Assn J 34:1591-4 O '42; Same. Mech Eng 64:756 O '42; Same. Min Cong J 28:22+ S '42; Same abr. Roads & Sts 85:70 S '42; Same cond. Elec Eng 61: 538-9 O '42

Chemical industry work essential to war listed. Oil Paint & Drug Rep 142:7+ O 26 '42

Company allowances for draftees' dependents. Management R 31:64-6 F '42

Company policies on military and civilian service of employees. Monthly Labor R 55:473-7 S '42

Construction workers' status in draft to be outlined. Eng N 129:335-6 S 10 '42

Distribution of essential manpower. E. M. Culligan. Oil Paint & Drug Rep 142:52; Discussion. 52-3 O 5 '42

Draft backfire; enlistment of workers vital to Midwest war plants. Business Week p44-5 S 12 '42

Draft boards asked to consider skills, training of metals workers. Steel 111:45 N 2 '42

Draft forces manpower issue. Business Week p15-16 Ag 29 '42

Drift to draft; Nash-Kelvinator finds way to protect essential labor. Business Week p90+ S 19 '42; Same cond. Management R 31:380-2 N '42

Essential personnel deferred; Selective Service bulletin sent to local draft boards lists key occupations in transportation field. Transit J 86:390 O '42

Gas industry outline of occupational deferment. Pub Util 30:244-7 Ag 13 '42

Gas men and the draft. Gas Age 89:24 Mr 12 '42

MILITARY service—Labor problems—*Cont.*

Glimpses of U.S. business future seen in servicemen's letters to house magazines. E. Johns. il Ptr Ink 200:13-15, 42-4 Ag 7 '42

How and why you should keep in touch with employes in uniform. R. Stone. Sales Management 50:44 Ap 1 '42

How four firms keep track of employes now in uniform. Sales Management 51:48-9 Jl 15 '42

Industry warned fewer draft deferments will be granted. Steel 111:50-1 S 7 '42

Industry's technical personnel hit hardest by war service. J. P. O'Donnell. Oil & Gas J 41:30+ Jl 16 '42

Job planning and the draft; abstract. Management R 31:302-3 S '42

Manning tables to help you plan orderly withdrawals and replacements in working force. map Factory Management 100:74-82 N '42

Manpower. Chem & Eng N 20:788-90 Je 25 '42

Manpower for transit operation; abstract. M. A. Kraft. Mass Transportation 38:298-9 O '42

Manpower in war-time. R. S. McBride. Chem & Met Eng 49:118-20 F '42

Message from Brigadier General Hershey, director of Selective service. Concrete 50: 26 Mr '42

Military drain on manpower may handicap oil industry. H. S. Norman. il Oil & Gas J 41:62+ S 24 '42

Military service in union contracts. Management R 31:361-3 O '42

Military service of employees, Jan. 1942. 32p Nat. ind. conf. bd. '42

Occupational deferments for utility employees. G. E. Doying, jr. Elec W 117:1512 My 2 '42

Personnel inventory advised. O. S. Beyer. Gas Age 90:30 N 5 '42

Personnel problem of the electric industry under war conditions. T. P. Walker. Edison Elec Inst Bul 10:235-6 Je '42; Same, with editor's note. Power Pl Eng 46:86-8 S '42

Policies of paper and pulp concerns with regard to military service. Paper Tr J 114: 16, 18 Ap 23 '42

Rehabilitation act in New Zealand. Int Labour R 45:188-9 F '42

Reinstatement in civil life of ex-service men in Canada. Int Labour R 45:190-1 F '42

Selective service and the aircraft worker. L. B. Hershey. Aviation 41:106 F '42

Selective service memorandum; re: occupational classification. L. B. Hershey. Am Water Works Assn J 34:970-8 Je '42

Selective service; protecting essential production by deferment of necessary skilled men. E. M. Culligan. Oil Paint & Drug Rep 141:59-60 Je 15 '42

Service men's own house organ; pictures and text all given over to employees now gone to war; Thomas A. Edison, inc, West Orange, N.J. il Ptr Ink 201:54 O 23 '42

Soldier contacts; programs to keep company zeal burning in employees until they return. Business Week p76+ F 7 '42

Special house organ for employees in military service; Celotex corporation. Ptr Ink 200:33 Jl 24 '42

Telephone man is called to the colors. Pub Util 29:571-4 Ap 23 '42

Transit manpower problem. W. L. Butler; O. S. Beyer; M. A. Kraft. Transit J 86:375-9 O '42

Use of skilled men in the British armed forces. Int Labour R 46:69-73 Jl '42

Utility employees draft classifications. Elec W News ed 117:1989-90 Je 6 '42

War manpower developments; regulation of enlistment of men in federal posts and war industry. Am Water Works Assn J 34: 1734-6 N '42

War news and draft speeds women in industry hiring. il Iron Age 150:85-6 S 24 '42

Waste of men; use of men with rare skill in service duties. Economist 142:244-5 F 21 '42

What will you do for a sales force when the war ends? basis of a program to make former salesmen want to come back. A. W. Sullivan. Ptr Ink 200:13-14, 38+ Ag 28 '42

Who gets men? enlistments, draft, war industry all vie for personnel. Business Week p18-19 Jl 25 '42

Work or fight? Business Week p103 O 24 '42

Work or fight? management studying new draft policy; with list of state occupational advisers. Business Week p63-4 Ja 31 '42

Protective legislation

Bill to protect service men from loss of property covers insurance payments. Weekly Underw 147:852 O 10 '42

Can a person in military service be sued? Banking 35:41 Ag '42

Civil relief act; proposed amendments. Banking 34:65 Je '42

Credit for service men. F. G. Addison. Banking 35:46 S '42

Financial protection for war families; compensation, benefits and civil relief plans for the armed forces and their dependents. Trusts & Estates 74:341-4 Ap '42

Form of waiver under Relief act. Banking 35: 44 N '42

Legal effects of military service under the Soldiers' and sailors' civil relief act of 1940. G. J. Baldwin and J. K. Clark, jr. 2d ed 61p pa $1 Ganson J. Baldwin, 72 Wall st, New York '41

Legal status of soldiers and sailors under civil relief acts, with forms. W. H. Anderson and C. Bowen. 247p $5 Courtright pub. co, Denver '41

Legislation on drafted trustees. Trusts & Estates 74:429 Ap '42

Loans for soldiers and sailors. W. F. Kelly. Banking 35:47 S '42

Producers in service protected by new Illinois law. Weekly Underw 146:1103 My 16 '42; Nat Underw 46:31 My 14 '42

Service men granted voting privileges. Comm & Fin Chr 156:989 S 17 '42

Service men granted voting privileges by House. Comm & Fin Chr 156:380 Jl 30 '42

Service men's civil rights bill signed. Comm & Fin Chr 156:1552 O 29 '42

Servicemen's debt. Business Week p28+ S 12 '42

Soldier vote bill signed. Comm & Fin Chr 156:1087 S 24 '42

Soldiers' and sailors' civil relief act amendments. Banking 35:62-6 N '42

Soldiers' and sailors' relief act; one comaker of note in military service. Burroughs Clearing House 26:40 D '41

Soldiers' and sailors' wills. T. E. Atkinson. Trusts & Estates 75:284-8 S '42

Substitute trustees for trustees in war service. F. D. Stone. Trusts & Estates 75: 276-80 S '42

War emergency fiduciaries; considerations in framing statute to cover disability to act due to military or other war service. G. Newhall. Trusts & Estates 75:183-6 Ag '42

Welfare work

Books for the boys at camp. Dun's R 49:50-1 O '41

Official statement from the War department concerning facilities in towns near army posts. Arch Rec 90:43 D '41

Stage door canteen. il Arch Forum 77:6 Jl '42

See also United service organizations for national defense

MILITARY service, Compulsory

Army to draft 1-B men. Comm & Fin Chr 156:290 Jl 23 '42

Canadian success with voluntary enlistment for overseas service. K. R. Wilson. Chem Ind 51:107-8 Jl '42

Changes in selective service policies; re: dependency and nature of occupation. Am Water Works Assn J 34:1289-93 Ag '42

Chemical workers draft exempt listed; order for selection of registrants. Oil Paint & Drug Rep 142:5+ Jl 20 '42

Communication to selective service authorities. J Account 73:344-9 Ap '42

MILITARY service, Compulsory—*Continued*

Complete action on aid to service men's dependents. Comm & Fin Chr 156:24 Jl 2 '42

Complete handbook on military training. J. W. Walch, comp. 144p, 7p bibliog(p28-35) pa $2.50 Platform news pub. co., Portland, Me. '41

Congress lowers draft age to 18; conferees to study clause restricting training to year. Comm & Fin Chr 156:1547 O 29 '42

Conscription for Allies; legal status of Allied nationals. Economist 142:889-90 Je 27 '42

Dependency no deferment. Business Week p15-16 Ap 25 '42

Dependency status of draft registrants. Comm & Fin Chr 155:1711 Ap 30 '42

Draft forces manpower issue. Business Week p15-16 Ag 29 '42

Essential workers and the draft; abstract. E. S. Duffield. Management R 31:43-4 F '42

Feb. 16 registration date of men between ages of 20 and 45. Comm & Fin Chr 155:234 Ja 15 '42

Functions of selective service. A. V. McDermott. Elec Eng 61:220-1 Ap '42

Here's how your employes stand in new selective service rules; registrants with dependents. Nat Pet N 34:34-5 Ap 29 '42

In the service with Uncle Sam. E. S. Kalp. 71p bibliog(p69-71) pa 60c Ginn '42

Military training; the fifteenth annual debate handbook, 1941-1942. B. Aly, ed. editor's ed 2v 220p, 220p bibliog(v 1, p203-20) Lucas bros, Columbia, Mo. '41

New rules on deferments given to draft boards. Comm & Fin Chr 156:466 Ag 6 '42

No 18-19 age group draft seen before January 1. Comm & Fin Chr 156:997 S 17 '42

Numbers game; how employers may expect draft to affect older groups in relation to younger. Business Week p72 Mr 7 '42

Obligation to serve. Economist 141:709-10 D 13 '41

Occupational bulletin 23, educational services, War manpower commission. Chem & Eng N 20:1294 O 25 '42

Occupational bulletin 24, production of chemicals and allied products activity, War manpower commission. Chem & Eng N 20:1294-5 O 25 '42

Physics and selective service. H. A. Barton. R Sci Instr 13:47-8 F '42

President signs new draft bill requiring 18-64 registration. Comm & Fin Chr 155:37 Ja 1 '42

Procurement of man power. E. M. Culligan. Ann Am Acad 220:8-17 Mr '42

Put off 18-19 draft. Comm & Fin Chr 155:2301 Je 18 '42

Saving technical men for winning the war. F. C. Whitmore. Chem & Eng N 20:1099-1100 S 10 '42

Selective service and the physicist. J Ap Phys 13:1-2 Ja '42

Selective service policies; dependency classification. R Sci Instr 13:379-83 S '42

Selective service policies; occupational classifications; official information. R Sci Instr 13:315-25 Ag '42

Should bank examiners be drafted? Bankers M 144:254-5 Mr '42

Status of accountants under Selective service act. C. G. Blough and J. L. Carey. J Account 74:306-14 O '42

Students in the Army enlisted reserve; Stimson's statement. Science 96:312 O 2 '42

United States needs engineers for government service; features and aims of selective service. R. B. Coons. Min & Met 23:334-5 Je '42

War service of chemists and chemical engineers. Chem & Eng N 20:837-9 Jl 10 '42

Who stays on job? draft deferment problem becomes critical. Business Week p56+ D 27 '41

Who'll be drafted when? Fortune 26:96-7 N '42

Canada

Canadian conscription. Economist 142:100 Ja 24 '42

Conscription plebiscite; wider cleavage than most Canadians thought existed. Economist 142:795 Je 6 '42

Quebec minority. Economist 143:45-6 Jl 11 '42

Great Britain

Britain's reserved occupations. Business Week p56 D 27 '41

General conscription of manpower in Great Britain, 1941. Monthly Labor R 54:385-6 F '42

National service bill in Parliament. Economist 141:749 D 20 '41

Skilled men in the services. Engineer 173:182-3 F 27 '42

MILITARY surgeons of the United States, Association of. See Association of military surgeons of the United States

MILITARY tanks. See Tanks, Military

MILITARY tractors. See Tractors, Military

MILITARY training

Inch by inch, tooth by gear; army officers receive technical training in motor vehicle operation and up-keep. il Sci Am 166:58-9 F '42

Military training at the University of Michigan. Science 96:222-3 S 4 '42

Proceedings, Conference on pre-induction military training, held at Chicago, Feb. 20-22, 1942. 2v 19p; 36p Inst. of military studies, Univ. of Chicago, Chicago '42

Training for military service. B. N. Harlow. Ann Am Acad 220:29-49 Mr '42

Training through recreation. W. J. Pitt. 74p pa 35c Teachers college '42

War training at 8 years decreed in Russia. Comm & Fin Chr 156:1718 N 12 '42

MILITARY training camps

Army camp operation; post utility officers; abstract. G. F. Lewis. Eng N 127:745 N 20 '41

Army cantonment built in sub-zero weather. D. B. Niederlander. il Civil Eng 12:187-90 Ap '42

Army engineers save metal in camp construction. Eng N 129:529 O 15 '42

Billion dollar army camp expansion calls for temporary type construction. Eng N 128:147 Ja 22 '42

Fire prevention in building army camps. il Eng N 129:548-9 O 22 '42

Paving at Fort Knox. J. C. Black. il Roads & Sts 85:31-5 F '42

Procedure in bidding and building a lump-sum camp job. il Eng N 128:726, 730, 732 Ap 23 '42

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:32-3 F '42

See also

Barracks

also Naval training station, Great Lakes, Illinois

Electric equipment

Distribution problems in cantonments. il Elec W 116:1704-7+ N 29 '41

Power supply

Oklahoma controversy over power for camp; Grand River dam head contests accepted bid of Oklahoma gas & electric co. Elec W News ed 117:1267 Ap 11 '42

Sanitation

Army bio-filter sewage plant provides unusual flexibility. il plan Eng N 129:173-5 Jl 30 '42

Army sewage treatment plants. il Pub Works 73:11-12+ Ja '42

Bases of sewage plant design for army cantonments; abstract. Am Water Works Assn J 34:759-60 My '42

Destruction of housefly larvae and pupae in sewage sludge beds; spraying with no. 2 Diesel oil; army reservation at Camp Shelby, Mississippi. H. Spencer, J. C. Hedden and L. B. Dworsky. il Pub Works 73:17-18 Ag '42

Emergency treatment of army camp sewage. F. Backmann. Eng N 129:107 Jl 16 '42

50,000 troops as neighbors. S. A. Evans. Am Water Works Assn J 34:440-1 Mr '42

MILITARY training camps—Sanitation—*Cont.*

Flexible sewage treatment for army camps. R. Eliassen. il plans Civil Eng 11:707-10 D '41

Operating results on five army biofilter plants; details of operation to date of sewage treatment plants at Camps Polk, Livingston, Wallace and Wolters and Fort Bragg. il Pub Works 73:19-20+ My '42

Sanitation activities in the southeastern states in connection with national defense. E. C. Sullivan and J. S. Wiley. Pub Health Rep 57:617-25 Ap 24 '42

Sanitation facilities for military posts. S. A. Greeley and E. S. Chase. il Civil Eng 12:359-62 Jl '42

Sewage disposal in a southern army camp. R. M. Lingo. il Civil Eng 12:206-8 Ap '42

Sewage disposal problems at army camps; abstract. P. Hansen. Water Works & Sewerage 88:509 N '41

Sewage treatment at Camp McCoy; abstract. Strand. Water Works & Sewerage 89:276 Je '42

Sewer design by approximate flood routing as applied to an army cantonment. R. L. Fraser. Civil Eng 12:102-3 F '42

See also United States—Army—Medical and sanitary affairs

MILITARY transportation. See Transportation, Military

MILK

Behaviour of some metal foils in contact with milk. R. Kerr. Soc Chem Ind J 61:128-32 Ag '42

Birmingham section and food group; abstracts and discussion of three papers. Chem & Ind 60:879-80 D 13 '41

Milk fats from cows fed on fresh pasture and ensiled green fodder; estimation of vitamin-*A* activity. R. A. Morton, J. W. Lord and T. W. Goodwin. Soc Chem Ind J 60:310-13 D '41

Milk fats from cows fed on fresh pasture and on ensiled green fodder; observations on the component fatty acids. T. P. Hilditch and H. Jasperson. bibliog Soc Chem Ind J 60:305-10 D '41

Milk in national health. E. B. Hart. Ind Med 11:290-2 Je '42

Our bread and milk; discussion of Wheatmeal bread or milk, by Dr N. C. Wright. A. L. Bacharach. Chem & Ind 60:791-5 N 8 '41; Discussion. H. C. H. Graves. 60:852 N 29 '41

Variations in the non-fatty solid constituents of milk, their cause and significance. S. J. Howland. Chem & Ind 61:252-4 Je 6 '42

What every person should know about milk. L. C. Frank. (Public health rep supp 150) 11p U.S. Public health service, Washington; pa 5c Supt. of doc. '41

See also

Butter
Casein
Cheese
Dairies

Analysis

Determination of citric acid in pure solutions and in milk by the pentabromoacetone method. E. F. Deysher and G. E. Holm. bibliog Ind & Eng Chem Anal ed 14:4-7 Ja 15 '42

Isolation of a copper bearing protein from cow's milk. W. L. Dills and J. M. Nelson. bibliog Am Chem Soc J 64:1616-18 Jl '42

Measuring the concentration of dissolved oxygen in dairy products; a voltammetric method. G. H. Hartman and O. F. Garrett. bibliog diag Ind & Eng Chem Anal ed 14:641-4 Ag 15 '42

Milk fats from cows fed on fresh pasture and on ensiled green fodder; observations on the component fatty acids. T. P. Hilditch and H. Jasperson. bibliog Soc Chem Ind J 60:305-10 D '41

Standard methods for the examination of dairy products, microbiological, bioassay and chemical. 8th ed 288p $3 Am. public health assn, New York '41

Tests for dairy products. F. Shaw. bibliog Chem & Ind 61:177-80 Ap 18 '42

Bacteriology

New tests on refrigerated milk; bacterial content at different heights in can. J. E. Nicholas and T. G. Anderson. il Refrig Eng 44:23-6, 50 Jl '42

Thermoduric organisms; abstract. F. W. Fabian. Food Ind 14:108 N '42

Preservation

Milk protection; ultra-violet rays kill bacteria; new U-shaped sterilamp. il Sci Am 167:28 Jl '42

Prices

Milk prices. Economist 142:514 Ap 11 '42

Testing

Big milk-testing scheme. Chem Age (Lond) 47:24 Jl 11 '42

Tests for dairy products. F. Shaw. bibliog Chem & Ind 61:177-80 Ap 18 '42

Transportation

Cost of transporting milk and cream to Boston. L. T. Sonley. il diags Vermont Agric Exp Sta (Burlington) Bul 462:1-56 '40

MILK, Condensed

Condensed milk; motorised factory, Wilts united dairies. il Elec R (Lond) 129:657-60 D 12 '41

Cuban exports of condensed milk, 1936-1941. For Comm W 7:20-1 My 9 '42

MILK, Dried

Milk drying under war conditions. C. C. Van Leer, jr. bibliog il Chem & Eng N 20:276-8 F 25 '42

Milk processing; electricity in a modern collecting depot. il Elec R (Lond) 129:460-2 O 31 '41

Preventing off-flavors in dried whole milk. E. L. Jack and J. L. Henderson. bibliog il Food Ind 14:50-2 Mr '42

Relation of the use of certain antioxidants and methods of processing to the keeping quality of powdered whole milk; abstract. H. A. Hollender and P. H. Tracy. Food Ind 14:109 Jl '42

Surplus marketing administration finances dry milk plants. Food Ind 14:73 Ap '42

MILK, Evaporated

Evaporation of milk. H. Seymour. Chem Age (Lond) 46:121-2 Mr 7 '42; Discussion. B. M. Reavell. il diag 46:169 Mr 28 '42

High-temperature preheat for evaporated milk; abstract. B. H. Webb and R. B. Bell. Food Ind 14:105 S '42

Rating

Evaporated milk. Consumers' Research Bul 9:5 Je '42

MILK, Goat's

Effect of pasteurization on some constituents and properties of goat's milk; abstract. H. F. Haller, C. J. Babcock and N. R. Ellis. Food Ind 14:109 Je '42

MILK, Irradiated

Lethal effectiveness of ultra violet rays applied to milk; abstract. G. C. Supplee, G. E. Flanigan and O. G. Jensen. Food Ind 14:99 Mr '42

MILK, Powdered. See Milk, Dried

MILK bottles

Speculation in glass milk bottles. H. Lawrence. Barron's 22:20 F 2 '42

MILK cans

Lactic acid lacquer for milk cans tested. Food Ind 14:87-8 Jl '42

Need new design for porcelain enameled milk cans. J. J. Theodore. Cer Ind 39:56 Ag '42

Cleaning

Acid detergent makes cans more sanitary. F. M. Scales. il Food Ind 14:51-3+ Ap '42

How to prevent and remove milk deposits. L. Shere. il Food Ind 14:63-6 Jl '42

Metallizing of milk can washing equipment. il Metal Finishing 40:301+ Je '42

MILK containers

Effect of mill operations on the number of bacteria found in paper and paperboard products. J. R. Sanborn. Paper Tr J 115:28-32 O 8 '42

Milk in shell cases. Can Chem & Process Ind 26:409 Jl '42

Milk, sale; use of paper containers; United States supreme court; City of Chicago et al. v. Fieldcrest dairies. Pub Health Rep 57:1077-8 Jl 17 '42

One less bottleneck; paper milk bottles as safety measure. il Safety Eng 84:8-9 Ag '42

Public health compliance by manufacturers of paper for packaging perishable foods; abstract. J. R. Sanborn. Food Ind 14:107 Ag '42

Sam Dean tackled the toughest job in merchandising; distributing fresh milk in paper containers through retail stores. F. C. Minaker. il Am Business 11:26-8 D '41

See also

Milk bottles

Milk cans

MILK cooling

Farm milk cooling important in war-time program. R. Markley, jr. il diags Refrig Eng 43:154-6 Mr '42

New tests on refrigerated milk; bacterial content at different heights in can. J. E. Nicholas and T. G. Anderson. il Refrig Eng 44:23-6, 50 Jl '42

Proposed A.S.R.E. methods of rating and testing complete can-type milk coolers; revised draft; A.S.R.E. circular no.21-42. Refrig Eng 44:insert 1-4 [348a+] N '42 [ptd separately 15c]

MILK delivery

Control island helps to reduce truck costs; Foremost dairies, inc. Jacksonville, Fla. il diag plans Food Ind 14:66-7 Ag '42

Control sheet saves trucks, tires, fuel. il Food Ind 14:66-7 S '42

Heat on milkmen; under pressure to save tires and cut costs. Business Week p41-2 Ja 24 '42

Labor aspects of the Chicago milk industry. M. Gresham and J. W. Bloch. bibliog Monthly Labor R 54:1283-1309 Je '42

Pittsburgh dairies drop Sunday delivery to conserve rubber tires. Food Ind 14:73 Jl '42

Sam Dean tackled the toughest job in merchandising; distributing fresh milk in paper containers through retail stores. F. C. Minaker. il Am Business 11:26-8 D '41

Store milk only; disposal of home-delivery routes by Rockford dairies. Business Week p90-1 D 6 '41

Truck design promotes product nationally; National dairy products corp. il Food Ind 14:68-9 O '42

Uses wooden tires and horse wagons to save milk routes. il Food Ind 14:72-3 Jl '42

MILK handling

How to prevent and remove milk deposits. L. Shere. il Food Ind 14:44-6 Je; 63-6 Jl '42

MILK houses

Milk houses needed; how to plan and build. il diags plans Am Bld 64:58, 60 S '42

MILK plants

Equipment for city milk plants. C. E. Clement, J. B. Bain and F. M. Grant. rev ed U S Agric Circ 99:1-52 '41

See also

Dairies

Electric equipment

Milk processing; electricity in a modern collecting depot. il Elec R (Lond) 129:459-62 O 31 '41

Equipment

Automatic lubrication saves labor and cost, makes machines last. F. M. Hewitt and M. N. Ripley. il diag Food Ind 14:42-3 S '42

Finishing of dairy trucks. il Metal Finishing 40:334 Je '42

MILK products

See also

Dairy products

MILK supply

America's 1942 milk production will reach 62,500,000 tons. Refrig Eng 43:356 Je '42

Are trends in quality standards consistent with modern production practices? abstract. M. E. Parker. Food Ind 14:109 Jl '42

Disease outbreaks from water, milk, and other foods in 1939. A. W. Fuchs. Pub Health Rep 56:2277-84 N 28 '41

Economics of price in the milk industry. J. M. Stepp. 154p pa $1 Bur. of public administration, box 1667, University station, Charlottesville, Va. '42

Report of market-milk supplies of standard milk ordinance communities; semiannual revision. Pub Health Rep 57:228-33 F 13 '42

See also

Milk containers

Laws and regulations

Analysis of state laws designed to effect economic control of the market milk industry. E. L. Rada and D. B. DeLoach. 72p bibliog(p60-1) pa 50c Oregon state college, Corvallis '41

Dairyman's plight. E. Case. Harvard Business R 20 no 2:233-43 [Ja] '42

Intrastate commerce subject to U.S. control. Oil Paint & Drug Rep 141:3+ F 9 '42

Milk; city ordinance; provisions regarding producer's permit fee and tuberculin testing upheld; Kansas Supreme court. Pub Health Rep 57:1395-7 S 11 '42

Milk control in the defense program. A. W. Fuchs. Pub Health Rep 57:422-31 Mr 20 '42

Natural milkshed; statutory definition construed; Connecticut Supreme court of errors. Pub Health Rep 57:1631-3 O 23 '42

Report on market-milk supplies of standard milk ordinance communities. Pub Health Rep 57:1218-22 Ag 14 '42

State milk and dairy legislation. 595p Work projects administration, Washington, D.C; $1.50 Supt. of doc. '41

Upholds U.S. right to regulate milk. Comm & Fin Chr 155:672 F 12 '42

Great Britain

Feeding the children; scheme for supplying cheap milk in schools. Economist 141:501 O 25 '41

Milk-O. Economist 142:65 Ja 17 '42

MILK trade

Economics of price in the milk industry. J. M. Stepp. 154p pa $1 Virginia univ. Bur. of public administration, University, Va. '42

Milk by half gallon; Safeway chain. Business Week p60-1 N 15 '41

See also

Dairy farmers' union

Milk delivery

Advertising

They laughed when I went into selling; the life story of Elsie the cow. S. Peabody. il Adv & Sell 35:15-17+ Je '42

Regulation

See Milk supply—Laws and regulations

Chicago

Labor aspects of the Chicago milk industry. M. Gresham and J. W. Bloch. bibliog Monthly Labor R 54:1283-1309 Je '42

Sam Dean tackled the toughest job in merchandising; distributing fresh milk in paper containers through retail stores. F. C. Minaker. il Am Business 11:26-8 D '41

Great Britain

Milk costs. Economist 143:477 O 17 '42

Producers' milk prices. Economist 142:197-8 F 7 '42

New York (state)

Dairyman's plight. E. Case. Harvard Business R 20 no 2:233-43 [Ja] '42

MILK trade—*Continued*

Rockford, Illinois

Store milk only; disposal of home-delivery routes by Rockford dairies. Business Week p90-1 D 6 '41

United States

Price of milk. R. W. Bartlett. 171p bibliog(p159-64) $2 Interstate printers and publishers, Danville, Ill. '41

MILK vendors

Labor aspects of the Chicago milk industry. M. Gresham and J. W. Bloch. bibliog Monthly Labor R 54:1283-1309 Je '42

MILK vetch

Identification of selenium indicator species of astragalus by germination tests. S. F. Trelease. Science 95:656-7 Je 26 '42

MILK wagon drivers

Labor aspects of the Chicago milk industry. M. Gresham and J. W. Bloch. bibliog Monthly Labor R 54:1283-1309 Je '42

MILK waste. See Dairy waste

MILKSTONE. See Dairies—Equipment

MILKWEED

Latest developments in milkweed floss; B. Berkman promotes cultivation in Michigan; seeds, fibers and floss utilized. L. Stouffer. il Rayon 23:603-4 O '42

Milkweed instead of kapok; abstract. B. Berkman. Chem Ind 50:510 Ap '42

MILKWORTS

Saponins from the species of polygala. C. D. Mell. Textile Col 63:618 N '41

MILKY way

Cosmic static. G. Reber. il diags Inst Radio Eng Proc 30:367-78 Ag '42

MILL villages. See Company towns

MILLER, Benjamin LeRoy, 1874-

Chairman, Industrial minerals division, A.I.M.E. por Min & Met 23:200 Ap '42

MILLIAMMETERS

Sensitive feedback voltmeter with rugged milliammeter indicator. L. Fleming. diags Electronics 15:88+ Ap '42

MILLING

Calculation of milling feeds and speeds; calculator devised to correlate large number of factors. il Iron Age 149:62 My 14 '42

Cam milling with a radial drill press. B. K. Arthur. Am Mach 86:300 Ap 2 '42

Carbide-tipped face mills; reference book sheets. F. W. Lucht. diags Am Mach 86:81, 83, 131, 133 F 5-19 '42

Device for calculating milling speeds quickly and accurately. il Mach 48:172 Je '42

Earnings and hours in mining and milling of nonferrous metals, August 1941. H. Ober, J. Loft and A. C. Lakenan. Monthly Labor R 54:1374-95 Je '42

Index bases speed milling operations. F. Hartley. diags Am Mach 86:298-9 Ap 2 '42

Machine operators taught by pictures; Kearney & Trecker corp. diags Iron Age 150:104-5 Ag 20 '42

Methods of cam milling. H. A. Frommelt. il diags Am Mach 86:321-3, 386-8, 440-2, 502-4, 652-4, 709-11 Ap 16-My 28, Je 25-Jl 9 '42

Thread milling practice. A. H. Henrikson. il diags Iron Age 150:46-9 Ag 20 '42

MILLING cutters

Carbide-tipped face mills; reference book sheets. F. W. Lucht. diags Am Mach 86:81, 83, 131, 133 F 5-19 '42

Easy-to-make face mills; use of Kennametal. P. M. McKenna. diags Am Mach 86:331 Ap 16 '42

High-speed milling with carbides. E. G. Moffat. il diags Am Mach 86:933-6 S 3 '42

More cuts from correct set-ups. R. T. Wise. diags Am Mach 86:4-5 Ja 8 '42

New method for milling with carbide-tipped cutters. M. F. Judkins. il Mach 49:186-7 S '42

Single-bladed carbide milling cutter. diag Iron Age 149:63 My 7 '42

Steel milled faster with negative rake carbide cutters. il Iron Age 150:50 S 24 '42

Thread milling practice. A. H. Henrikson. il diags Iron Age 150:46-9 Ag 20 '42

MILLING machinery. See Crushing machinery

MILLING machines

Aircraft machinery corp. universal turret miller. il Aviation 41:141 Je '42

Central tool and equipment co.'s bench milling machine. il Engineering 153:427 My 29 '42

Craven duplex slot milling and key seating machine. il Automobile Eng 31:409 N '41

Cuts machining time; high-cycle milling machine in use at the Lockheed aircraft corp. plant. il Steel 110:76+ F 2 '42

Edgwick no. 2 vertical milling machine. il Automobile Eng 32:243 Je '42; Engineering 153:466 Je 12 '42

Face mill mountings; reference book sheet. F. W. Lucht. diags Am Mach 86:181, 183 Mr 5 '42

Fray horizontal-vertical ram type milling machine. il Mach 49:197 O '42

Gordon-R thread- and form-milling machine. il Mach 48:168 Mr '42

Herbert Simplimil milling machine. il Engineer 173:128 F 6 '42; Engineering 153:146 F 20 '42; Automobile Eng 32:115-16 Mr '42

How Chrysler rebuilt 44 machines assigned to storage; gear finishes made into milling machines. il Automotive & Aviation Ind 86:32-3 Je 1 '42

Jefferson milling machine and tilting dividing head. il Mach 48:170-1 Je '42

Jones duplex slot milling machine. il Engineer 173:39-40 Ja 9 '42; Engineering 153:106 F 6 '42; Automobile Eng 32:76 F '42

Kearney and Trecker plain and verticle milling machines. il Automobile Eng 32:411-12 O '42

Kendall and Gent milling machine. il Automobile Eng 32:315 Ag '42

Kendall and Gent vertical milling machine. il Engineer 173:147-8 F 13 '42; Engineering 153:225 Mr 20 '42

Kendall and Gent vertical milling machine. il Engineering 154:26 Jl 10 '42

Kent-Owens hydraulic milling machine. il Automobile Eng 31:411 N '41

Machine for milling extractor trunnion pockets in gun breech rings. il Mach 49:201 S '42

Methods of cam milling; use of rotary head milling machine. H. A. Frommelt. il diags Am Mach 86:502-4 My 28 '42

Milling machine; job training units. 110p pa $1.25 Am. technical soc, Drexel av. & 58th st, Chicago '42

New miller speeds plane production. il Iron Age 149:48-9 Ja 15 '42

Propeller-blade milling machine. il Engineering 154:106 Ag 7 '42

Reed-Prentice improved milling machine. il Mach 48:161-2 Mr '42; Am Mach 86:185 Mr 5 '42; Steel 110:102+ Mr 16 '42

Rejuvenating an old miller; applying all-electric, adjustable-speed drive. il Iron Age 149:62 Ap 30 '42

Running a milling machine. F. H. Colvin. 157p $1.50 McGraw-Hill '41

Shields vertical universal milling machine. il Mach 48:160 Ag '42

Snyder milling machine. il Steel 111:112-13 S 7 '42

Snyder three-spindle rotary milling machine. il Am Mach 86:1194 O 15 '42

Stokerunit vertical milling machine. il Automobile Eng 32:76-7 F '42

Sundstrand double-end milling and centering machine. il Mach 49:195-6 O '42; Am Mach 86:1127 O 1 '42

Sundstrand propeller-edge milling machine. il Mach 48:163-4 D '41

Vernon vertical milling and jig-boring machine. il Automobile Eng 32:359-60 S '42

Control

Combines control systems; patent for attachment to milling machine will enable it to carry out copying operations. diags Machine Design 14:118+ Ja '42

Controlled in-feed mechanism for screw milling machine. diag Mach 48:222 Jl '42

MILLING machines—Control—*Continued*

Electronic motor control changes cutter feed in mid-cycle. il diags Product Eng 13:626-8 N '42

Hydraulic control speeds milling of aircraft pistons. W. C. Oberem. il diags Product Eng 13:507-10 S '42

Semi-automatic control operates standard machine tools. il Steel 110:82 Je 29 '42; Iron Age 150:63 Ag 27 '42

Fixtures

Conversion of machine tools calls for fine ingenuity; making parts of anti-aircraft cannon. Sci Am 167:8 Jl '42

Equalizing multiple clamping device for milling and grinding fixtures. C. Golosman and D. Golosman. diags Mach 48:140-1 F '42

Fixture for milling keyseats in line. E. L. Loftin. il Am Mach 86:1022 S 17 '42

Fixture permits multiple milling. F. H. Johnson. diags Am Mach 86:391 Ap 30 '42

General purpose milling fixture. F. Hartley. diags Am Mach 86:390 Ap 30 '42

Methods of cam milling; use of the cam slide. H. A. Frommelt. il Am Mach 86:652-4, 709-11 Je 25-Jl 9 '42

Milling machine attachment for threading short plugs. diags Mach 49:167 O '42

Shoe and wedge milling fixture. il Ry Mech Eng 116:226-7 My '42

MILLS, Ball. See Ball mills

MILLS, Grinding. See Grinding mills

MILLS, Tube. See Tube mills

MILLSTONES

Suffolk post mills. R. Wailes. il Engineering 152:464-5 D 12 '41

MILWAUKEE

Milwaukee's wants; Urban land institute report. Arch Forum 75:sup56+ D '41

Industries

Everything's under control; Cutler-Hammer's output of electrical equipment is up 500 per cent. il Fortune 26:96-8+ Ag '42

Railroads

C.&N.W. gives "400" aspect to its Milwaukee station. il plan Ry Age 112:814-18 Ap 25 '42

Water supply

Administrative problems of water works in wartime. H. H. Brown. Am Water Works Assn J 34:1189-91 Ag '42; Excerpt. Eng N 129:102-3 Jl 16 '42

Laying water mains in Milwaukee. H. Ihling. il Am Water Works Assn J 34:595-600 Ap '42

Repairing water mains in Milwaukee. R. H. Klebenow. Am Water Works Assn J 34:272-4 F '42

MIMEOGRAPH

How to cut mimeograph paper costs 35%. Management R 31:10 Ja '42

MIMICRY (biology)

See also

Homeomorphy

MIMULUS longiflorus

Formation of pro-carotenoids in monkey flowers under some conditions. W. A. Schroeder. bibliog Am Chem Soc J 64:2510-11 O '42

MIND and body

Does mental receptivity control the physical? apparent effect upon child bearing. Sci Am 166:120 Mr '42

Great American stomach; gastrointestinal tract and its troubles. il Fortune 24:82-5+ D '41

MINE accidents

Accident experience at pebble-phosphate operations in Florida, 1930-40. F. E. Cash. U S Bur Mines Information Circ 7186:1-15 '41

Accident experience in the mining industry. R. H. Cleland. Can Min J 63:518-23 Ag '42; Same. Mech Handling 29:234-7 D '42

Accidents halt war production. Safety Eng 84:35 Ag '42

Metal- and nonmetal-mine accidents in the United States during the calendar year 1939 (excluding coal mines). W. W. Adams and M. E. Kolhos. U S Bur Mines Bul 440:1-52; pa 10c Supt. of doc. '41

Mine accident prevention in the present emergency. J. K. Richardson. il Min Cong J 27:18-22 D '41

National safety competition of 1941; with accident data for quarries and mines. W. W. Adams and T. D. Lawrence. U S Bur Mines Rep of Invest 3653:1-43 '42

Safety sermonettes; abstract accidents. W. B. Paton. Can Min J 63:383-5 Je '42

Safety sermonettes; beware of the unusual. W. B. Paton. Can Min J 63:449-51 Jl '42; Same. Mech Handling 29:185-7 O '42

Safety sermonettes; self rescue. W. B. Paton. Can Min J 63:240-2 Ap '42

Slusher hoists aid in reducing tramming hazards; Montreal iron mine in Wisconsin. D. E. Fritz. Min Cong J 28:22-4 Ag '42

Status of safety in mining. D. Harrington. U S Bur Mines Information Circ 7181:1-32 '41

Wire rope can cause injuries! F. L. Spangler. il Eng & Min J 142:50 N '41

See also

Coal mines and mining—Accidents and explosions

Coal mines and mining—Safety measures

Electricity in mining—Safety measures

Mine hoisting—Safety measures

Mining engineering—Safety measures

MINE air

Cooling a mine to win the war. diags Dom Eng 159:63+ My '42

See also

Mine ventilation

MINE buildings

Field welding cuts weight, cost and vibration in preparation plants; with cost data. G. S. Roach. diags Coal Age 47:53-6 Mr '42

Model plant for the Sherwood iron mine. R. D. Satterley. il plans Eng & Min J 143:43-7 My '42

MINE cages

Pit cage safety device; patent. diags Mech Handling 28:265 D '41

MINE cars

Big cars behind loaders plus underground transfer station increase machine output at Peerless mine. I. A. Given. il diags Coal Age 47:37-40 Mr '42

Completely mechanized new Ditney Hill slope mine serves loading machines with shuttle cars. I. A. Given. il diags Coal Age 47:52-6 Ja '42

Concrete lining for ore cars. diag Eng & Min J 143:66 Mr '42

How to attain greater shuttle-car safety; stresses control of dust at source. J. C. White. il Coal Age 47:58-9 My '42

Ore haulage; Morenci mine. S. F. French. il diag map Min & Met 23:254-7 My '42

Shuttle car haulage for metal mines. L. E. Young. il Min Cong J 27:12-18 N '41

Shuttle car operation with tractor loaders at Peabody coal co. A. F. Phillips. Min Cong J 28:44-5 Je '42

Shuttle cars achieve high output per shift at no. 25 mine; northern West Virginia property of Consolidation coal company. G. B. Southward. il diags plan Min Cong J 28:26-9 O '42

Some haulage safety devices for use on grades, slopes, and inclined shafts. G. W. Grove, S. H. Ash and E. J. Ristedt. il diags U S Bur Mines Miners' Circ 43:1-44; pa 10c Supt. of doc. '42

War maintenance; mine cars and tracks. il diags Coal Age 47:94-6 O '42

Weld-fabrication of mine cars. il Min Cong J 28:38-9 Ja '42

Repair

Operating costs cut at new Pine Ridge car-repair shop. R. D. Hall. il diags plan Coal Age 47:47-9 Ja '42

MINE chutes. See Ore chutes

MINE construction

Completely mechanized new Ditney Hill slope mine serves loading machines with shuttle cars. I. A. Given. il diags Coal Age 47:52-6 Ja '42

Development and operation of the Morenci mine. W. C. Lawson. il Min & Met 23:250-3 My '42

See also

Concrete construction in mines
Mine roofs
Mine shafts

MINE doors

Concreting bulkhead doors. diag Eng & Min J 143:65 Ja '42

Self-closing fire door. diags Eng & Min J 143:64-5 Ja '42

MINE drainage

Carlton tunnel drains Portland mine. il plan Comp Air M 46:6589-90 N '41

Quickly cleaned sump. D. H. Noy. diags Eng & Min J 142:42 N '41

Treatment of mine water as a factor in the mineral production in southeastern Kansas. E. D. Kinney. (Geol. survey bul. 38, no 1) Univ. of Kansas press, Lawrence '41

See also

Mine water

MINE dust

Dust allaying with wetting agents; abstract. C. W. Owings. Coal Age 46:89-91 N '41

Methods of allaying dust in underground mining operations. C. W. Owings. bibliog U S Bur Mines Rep of Invest 3631:1-38 '42

See also

Coal dust
Silicosis

MINE equipment

American copper mine and reduction works; Morenci district of Arizona; Phelps Dodge corporation. plans Engineer 174:70-1, 99-100, 120 Jl 24-Ag 7 '42

Detachable rock-drill bits at the Hollinger mine; with cost data. A. H. Wohlrab. bibliog il diags Can Min J 63:151-6 Mr '42

Equipment and supplies classified under P-56. Eng & Min J 143:75-6 My '42

Great Western quicksilver mine. W. Bradley. il Comp Air M 47:6644-6 Ja '42

How to get machines and materials under war-time priorities. W. A. Nelson; E. W. Bauman. Rock Prod 45:32-4 Mr '42

Metallizing and the conservation of metals. B. W. Deane. il Can Min J 62:837-9 D '41

Mine equipment, 1941. H. C. Chellson. Eng & Min J 143:95-8+ F '42

Mine operators and manufacturers of mining machinery and supplies asked to inventory equipment and raw material requirements. W. A. Nelson. Eng & Min J 143:43-4 Ap '42

Mining on the Menominee; with tabulated data on mining practice. A. H. Hubbell. il map Eng & Min J 143:51-5 Ja '42

New Riverside, producer of barytes in Georgia. A. H. Hubbell. flow sheet il Eng & Min J 143:62-5 O '42

Performance records for wire rope. Min Cong J 27:37 D '41

Priorities on equipment and materials for mines revised and broadened to improve service. Coal Age 47:110+ F '42

Priorities order P-56 for mining is consolidated and simplified. Eng & Min J 142:97-9 D '41

Utilizing mine scrap by welding. il Min Cong J 28:18-19 Mr '42

See also

Airplanes in mining
Coal mines and mining—Equipment
Electric locomotives, Mine
Electricity in mining
Fans, Mine
Locomotives, Mine
Mine cars
Mine hoisting
Mining machinery
Rock drills

Maintenance and repair

Planned war-time maintenance and salvage program; Tennessee copper company. L. Weaver. il Eng & Min J 143:53-4 O '42

Wartime care of mine equipment; repaired by electric and acetylene welding and metallizing. E. Schweitzer. il Min Cong J 28:20-2 Jl '42

MINE explosions

Safety sermonettes; explosions. W. B. Paton. Can Min J 62:844-6 D '41

See also

Coal mines and mining—Accidents and explosions
Rock bursts

MINE fans. See Fans, Mine

MINE filling

Filling mine stopes with mill tailings. C. W. Plumb. diags Min Cong J 28:12-14 Ja '42

Stope filling in a borax mine. C. G. Grim. il Min Cong J 28:29-31 My '42

MINE fires

Coal-mine explosions and coal- and metal-mine fires in the United States during the fiscal year ended June 30, 1941. D. Harrington and W. J. Fene. U S Bur Mines Information Circ 7208:1-26 '42

Fire prevention planning for mines. J. S. Baker. Eng & Min J 143:53 Ap '42

See also

Coal mines and mining—Fires and fire protection
Inflammable mixtures

MINE foremen

Absenteeism and the mine foreman. J. J. Rutledge. Explosives Eng 20:304-5 O '42

Cowed mine foreman. J. J. Rutledge. Explosives Eng 20:243-4 Ag '42

Initiative. J. J. Rutledge. Explosives Eng 19:342-3 N '41

Lick-and-a-promise mine foreman. J. J. Rutledge. Explosives Eng 20:143-4 My '42

Management policies influence accomplishments of bosses and make or break supervision at the face. O. G. Van Campen. Coal Age 47:49, 52 Mr '42

Mine foreman who does not give. J. J. Rutledge. Explosives Eng 20:272-3 S '42

Mine foreman who is down on his luck. J. J. Rutledge. Explosives Eng 20:176-8 Je '42

Modern foreman looks in the mirror. Min Cong J 28:37 S '42

New mine foreman. J. J. Rutledge. Explosives Eng 20:25-6 Ja '42

Questions asked by state boards. Published in monthly numbers of Coal age

Trained mine foreman. J. J. Rutledge. Explosives Eng 20:119-20 Ap '42

MINE gases

See also

Carbon monoxide
Methane
Methane detectors
Mine ventilation

MINE haulage

Belt conveyors for underground gathering haulage. diags Min Cong J 28:44-7 N '42

Big coal-mining hazards; haulage operations. Coal Age 46:76 D '41

Modernization at Pittsburg & Midway coal mining co.; combination haulage. C. Lambur, jr. il Coal Age 46:52-3, 56 N '41

Mogentor monitors lower coal down mountain at Poinsettia conveyor-equipped mine. J. H. Edwards. il diags Coal Age 47:66-8 Je '42

Operating a two-loading point regenerative incline. M. M. Haley. il plan Min Cong J 28:11-13 My '42

Ore haulage; Morenci mine. S. F. French. il diag map Min & Met 23:254-7 My '42

Rope haulage simplified by roof brackets. C. W. Watkins. diags Coal Age 46:68+ N '41

Shuttle car haulage for metal mines. L. E. Young. il Min Cong J 27:12-18 N '41

Strip mine haulage in eastern Ohio. A. H. Henry. Min Cong J 28:52-3 Je '42

Transfer trucks can save face operating time and cut cost of shopping loading machines. E. Prudent. il Coal Age 47:79+ Ap '42

Truck haulage in Mesabi open-pit practice. R. W. Whitney. il Eng & Min J 143:52-5 Je '42

See also

Cableways
Electric locomotives, Mine
Locomotives, Mine
Mine cars
Mine hoisting
Mine tracks
Ore handling

MINE haulage—*Continued*

Safety measures

Automatic haulage safety appliances. T. Forsyth. diags Mech Handling 29:16-17 Ja '42; Discussion. J. R. Robertson. 29:80-1 Ap '42

Mining haulage gear; study of failures; report of Safety in mines research board. Engineer 172:sup[Metallurgist] 46-7 D 26 '41

Safety devices for rope haulage; patent. diags Mech Handling 28:263-4 D '41

Safety problems in connection with operation of rubber-tired shuttle cars; abstract. G. A. Shoemaker. Coal Age 47:60-1 Ja '42

Some haulage safety devices for use on grades, slopes, and inclined shafts. G. W. Grove, S. H. Ash and E. J. Ristedt. il diags U S Bur Mines Miners' Circ 43:1-44; pa 10c Supt. of doc. '42

Trucks in open pit mining observe "safety first" on the Mesabi range. S. E. Sullivan. il Min Cong J 28:22-4 O '42

MINE hoisting

Economy in maintenance by metallizing; repairing drum shaft of hoist. W. H. Schacht. il Eng & Min J 143:44 Mr '42

Lubricating the hoist ropes. P. C. Ziemke. diag Eng & Min J 143:63 Ja '42

Slusher hoists aid in reducing tramming hazards; Montreal iron mine in Wisconsin. D. E. Fritz. il diag Min Cong J 28:20-4 Ag '42

Wire ropes; 18th annual report of Safety in mines research board. Mech Handling 29: 26-7 F '42

See also

Mine haulage
Mine shafts

Safety measures

Investigation into the permissible load-carrying capacity of steel wire ropes for hoisting with special reference to deep-level winding on the Witwatersrand goldfields. J. J. P. Dolan and W. G. Jackson. bibliog diag Inst Mech Eng J & Proc 142: Proc 225-60 Ja '40; Discussion. il 146:Proc 20-32 N '41

Pit cage safety device; patent; diags Mech Handling 28:265 D '41

Safety factor of winding ropes in deep shafts. D. R. Bean. Engineer 174:119-20 Ag 7 '42

Safety sermonettes; hoisting ropes. W. B. Paton. Can Min J 63:515-18 Ag '42

MINE hoisting, Electric

Block caving with slusher hoists and scrapers; Emma Nevada mine of Consolidated coppermines corporation. P. J. Sirkegian. diag Min Cong J 28:14-15 Mr '42

Hoist current for signal service. diag Eng & Min J 142:65-6 N '41

Idle electric hoist reconditioned for new Harmony mine. il Coal Age 47:96+ F '42

Large electric mine hoists at Flin Flon. J. L. McKeever and W. T. Fanjoy. il Can Min J 63:232-5 Ap '42

Mogentor monitors lower coal down mountain at Poinsettia conveyor-equipped mine. J. H. Edwards. il diags Coal Age 47:66-8 Je '42

Monitor plane control includes contactors and governor. il Coal Age 47:83 Je '42

Underground transportation of ore at Noranda. H. A. Quinn. il Can Min J 62:772-3 N '41

MINE inspection

Federal inspection law and coal-mine safety. map Coal Age 46:63-6 D '41

How federal coal mine inspection is working. Min & Met 23:387 Jl '42

Tentative coal-mine inspection standards. U S Bur Mines Information Circ 7204:1-48 '42

MINE inspectors

Federal mine inspectors receive training. il Min Cong J 28:58 Ja '42

MINE lamps. See Safety lamps, Electric

MINE lighting

Haulage on grade made safer by battery headlights. diag Coal Age 47:83-4 Je '42

See also

Safety lamps, Electric

MINE locomotives. See Electric locomotives, Mine; Locomotives, Mine

MINE management

Mining industry offers career for personnel engineers. J. A. Wilcox. Min & Met 23:337 Je '42

Reducing production costs through employee cooperation. E. Rowe. Eng & Min J 142: 43-4 N '41

Timmins Ochali's safety work headed by management; welfare activities also receive attention. F. K. Wilson and B. F. Darnell. Eng & Min J 143:55-6 Je '42

Trouble in the mines. E. Rowe. Personnel J 20:172-6 N '41

See also

Coal mines and mining—Management
Mine foremen

MINE officials union of America

Mine boss issue; Pennsylvania asks NLRB to reconsider. Business Week p89-90 Ag 15 '42

Mine-boss strike; union of supervisors defined by NLRB as both employers and employees. Business Week p78 Jl 4 '42

MINE pumping

How a tough water problem was handled at Jarbidge; sinking the Gray Rock shaft involved pumping seven billion gallons. R. O. Camozzi. il diags Eng & Min J 143:45-8 Jl '42

Turbine pumps do their bit for zinc; unwatering mines in Tri-state area. W. F. Netzeband. il Min Cong J 28:18-19 Ag '42

MINE pumps

War maintenance; drills and pumps, strip mines. il diag Coal Age 47:127 O '42

War maintenance; pumps and fans. il Coal Age 47:103-4 O '42

MINE roofs

Cutting roof fall toll. diags Coal Age 47: 70-1 Ag '42

Effect of changes in moisture and temperature on mine roof; first report on strata overlying the Pittsburgh coal bed. I. Hartmann and H. P. Greenwald. bibliog pls U S Bur Mines Rep of Invest 3588:1-38 '41

Mineral composition, and structure of mine roof rocks. P. H. Price and A. J. W. Headley. bibliog il Min Cong J 28:54-6 Ap '42

Prevention of roof falls in coal mine entries; study to be made. G. B. Southward. Min Cong J 27:40 N '41

Reasons for roof falls; abstract. H. P. Greenwald. Coal Age 46:102-4 D '41

Roof breaks in pillar mining. A. E. Long. diags Min Cong J 28:34-6 Mr '42

Treated timber for mine roof support. il Min Cong J 28:46-7 O '42

Why roof fails in narrow work miles away from surface. Coal Age 47:61 Ja '42

MINE sanitation

Health and working environment of nonferrous metal mine workers. W. C. Dreessen and others. (Pub. health bul. 277) il diags map 110p bibliog (p101-5) U.S. Public health service, Washington; pa 20c Supt. of doc. '42

MINE shafts

Change over from quarry to mine; Central rock co. opens shaft type limestone mine. B. Nordberg. il diag Rock Prod 45:36-9 S '42

How a tough water problem was handled at Jarbidge; sinking the Gray Rock shaft involved pumping seven billion gallons. R. O. Camozzi. il diags Eng & Min J 143:45-8 Jl '42

Model plant for the Sherwood iron mine. R. D. Satterley. il plan Eng & Min J 143:43-4 My '42

MINE shafts—*Continued*

New airshaft at Old Ben no. 8 mine embodies modern ideas in construction. il diags Coal Age 47:71-2 Je '42

Self-supporting stairway built in Buckhorn escape shaft. il Coal Age 47:86 Je '42

Transferring azimuth through vertical shafts. D. H. Noy. diags Can Min J 63:559-64 S '42

See also

Mine hoisting
Mine ventilation

MINE shops

New central shop at Pursglove. il Coal Age 47:54-5 Jl '42

New underground shop of Consolidation mine no. 93. il plan Coal Age 47:85-8 Ap '42

Operating costs cut at new Pine Ridge car-repair shop. R. D. Hall. il diags plan Coal Age 47:47-9 Ja '42

War maintenance; deep-mine shops. il Coal Age 47:70-2 O '42

War maintenance; strip-mine shops. il Coal Age 47:117-19 O '42

MINE signals

Dependable signal switch. P. C. Ziemke. diags Can Min J 63:564 S '42

Hoist current for signal service. diag Eng & Min J 142:65-6 N '41

MINE stowage. See Mine filling

MINE subsidences

Protecting transmission system against surface subsidence. J. Garrett. il diags Oil & Gas J 41:145, 148+ S 24 '42

MINE surveying

Save power by surveying mine with altimeter using data for air-pressure profile; abstract. E. P. Jaggard. Coal Age 47:62-3 Mr '42

Survey station of concrete in the Belgian Congo. R. W. Michael. diag Eng & Min J 143:71 Ap '42

Transferring azimuth through vertical shafts. D. H. Noy. diags Can Min J 63:559-64 S '42

See also

Dip and strike, Determination of
Drilling and boring (earth and rocks)

MINE taxation

Determination of gross income for percentage depletion. J. A. Runser. Min Cong J 27:47+ D '41

Effect of present federal tax policy on mine valuations. H. C. Jackson. Min Cong J 27:46-7 D '41

Excess profits tax and mining. E. C. Alvord. Min Cong J 27:44-6 D '41

Special tax problems of the mining industry. J. D. Conover. Min Cong J 28:46-9 Ag '42

Taxes, an operating problem. L. S. Cates. Min Cong J 27:42-3 D '41

MINE timber

Almost 100 miles of gangways; Lehigh navigation coal co. timber survey; abstract. P. L. Burkhart. Coal Age 47:89-90 Mr '42

British mines plan to dry their posts underground. J. R. Hopkins. Coal Age 47:79 Je '42

Treated timber for mine roof support. il Min Cong J 28:46-7 O '42

MINE timbering

See also

Mine roofs

MINE tracks

Bronze welded track joints; abstract. W. H. Wilson. Coal Age 46:74+ N '41

Design of underground turnouts. N. P. Peterson. diags Eng & Min J 143:40-2 Mr '42

Installation costs of service haulage tracks for mobile mechanical loading. il Min Cong J 27:41-2 N '41

Maintenance and inspection of mine haulage roads. il Min Cong J 28:33-5 My '42

Mine track turnouts. diags Eng & Min J 143:72-3 Ap '42

Ore haulage; Morenci mine. S. F. French. il diag map Min & Met 23:254-7 My '42

Practical switch nomograph. Eng & Min J 142:66 N '41

Service haulage tracks for mobile loading machines; with cost data. diags plans Min Cong J 28:47-9 S '42

Simple switch point. diags Eng & Min J 143:70 S '42

Some comparisons of track welding methods; Koppers coal division of Eastern gas & fuel associates; thermit and electric welding. il diags Min Cong J 28:8-10+ My '42

Underground transportation of ore at Noranda. H. A. Quinn. il diags plan Can Min J 62:678-80, 765-73 O-N '41

War maintenance; mine cars and tracks. il diags Coal Age 47:94-6 O '42

MINE transportation

New aerial tramway for Tungstar. Eng & Min J 143:64-5 S '42

Transport difficulties in Peru; Panaminas inc.'s new four ton equipment moved by 85 natives. il Eng & Min J 143:55 Jl '42

Transporting ore in the Philippine Islands; with cost data. W. F. Boericke. il Min Cong J 28:44-7 Ja '42

Underground transportation of ore at Noranda. H. A. Quinn. il diags plan Can Min J 62:673-82, 765-73 O-N '41

See also

Airplanes in mining
Electric locomotives, Mine
Mine cars
Mine haulage
Mine hoisting
Mine tracks

MINE valuation

Effect of present federal tax policy on mine valuations. H. C. Jackson. Min Cong J 27:46-7 D '41

Placer valuation in Alaska. L. C. Doheny. il Eng & Min J 142:47-9 D '41; 143:43-4 Ja; 48-9 Mr '42

Valuation of future profits with variable annual income. C. E. Mills. Eng & Min J 142:37 N '41; Discussion. 143:68, 70 Mr '42

MINE ventilation

Aspects of underground ventilation. R. Mancha. il Min Cong J 27:27-30 N '41

Evasee on a centrifugal exhaust fan. W. S. Weeks. diags Eng & Min J 143:45-7 Ja '42

Getting more air with a lower power consumption. J. H. Dickerson. Coal Age 47:48-50 S '42

Gob temperatures up to 125 deg. F.; abstract. A. T. Beckwith. Coal Age 47:90 Mr '42

Good ventilation aids mine output. E. A. Anundsen. il Min Cong J 28:17-19 Jl '42

Health hazards from inadequate coal-mine ventilation. R. R. Sayers. bibliog U S Bur Mines Information Circ 7221:1-18 '42

How the injector and atomizer principle modifies gas and dust explosions. diag Coal Age 47:65 S '42

Safety sermonettes; ventilation in small mines. W. B. Paton. Can Min J 63:659-61 O '42

Save power by surveying mine with altimeter using data for air-pressure profile; abstract. E. P. Jaggard. Coal Age 47:62-3 Mr '42

Ventilation surveying. Min Cong J 28:40-2 Ja '42

See also

Fans, Mine

MINE waste

Champion mine's old stockpiles yield ore in emergency. il Eng & Min J 142:41 N '41

Pollution, a perennial headache. R. M. Searls. Min Cong J 28:30-2+ Mr '42

MINE water

How a tough water problem was handled at Jarbidge; sinking the Gray Rock shaft involved pumping seven billion gallons. R. O. Camozzi. il diags Eng & Min J 143:45-8 Jl '42

Pollution, a perennial headache. R. M. Searls. Min Cong J 28:30-2+ Mr '42

Solving a mine-water problem at Mascot, Tennessee; grouting is employed to seal a crevice. W. Black. diags Eng & Min J 143:46-8 O '42

See also

Mine drainage
Petroleum—Water problem

MINERAL industries

British association conference on mineral resources and the Atlantic charter. Engineer 174:91-3, 111-13, 139-40, 150-1, 179-80 Jl 31-Ag 28 '42; Chem Age (Lond) 47:103-5 Ag 1 '42

Industrial minerals, 1941. S. H. Dolbear. Eng & Min J 143:90-2 F '42

Nonmetallic industrial minerals, 1941. P. M. Tyler and O. Bowles. il Min & Met 23:80-6 F '42

Plentiful supply of nonmetallic minerals aids the war effort; high lights of Industrial minerals division symposium; A.I.M.E. annual meeting. P. M. Tyler. il Min & Met 23:205-8 Ap '42

Possible special products may help to supply shortages. N. C. Rockwood. Rock Prod 45:43-4 Ja '42

Practical metallurgy; applied physical metallurgy and the industrial processing of ferrous and nonferrous metals and alloys. G. Sachs and K. R. Van Horn. 567p $5 Am. soc. for metals, Cleveland '40

Trade agreement negotiations with Mexico and Bolivia; Mining congress presents industry's position. J. D. Conover. il Min Cong J 28:32-3+ Je '42

See also

Aggregates

Asbestos

Coal trade

Feldspar

Iron industry and trade

Limestone

Metal trade

Metallurgy

Mines and mineral resources

Mining industry and finance

Petroleum industry and trade

Phosphates

Potash

Quarries and quarrying

Rock products industry

Salt

Silicates

Sodium nitrate

Stone, Crushed

Sulfur industry and trade

United States—Mines, Bureau of

Alaska

See also

Mines and mineral resources—Alaska

Australia

Minerals in Australia's beach sands. For Comm W 9:30 N 7 '42

Burma

Minerals of Burma and South China. Economist 142:257-8 F 21 '42

Canada

Minerals for war equipment. Can Chem & Process Ind 26:143-4 Mr '42

Chile

Chilean production hits high marks in 1941. For Comm W 7:31 Je 20 '42

Germany

Nazis surprisingly well supplied with minerals essential for war; estimated 1942 production in German controlled and supplying countries. C. W. Wright. Steel 110:47 Ja 26 '42

Kansas

Treatment of mine water as a factor in the mineral production in southeastern Kansas. E. D. Kinney. (Geol. survey bul. 38, no 1) Univ. of Kansas press, Lawrence '41

North Dakota

Interphase evaporation of sodium sulfate solutions; Glauber salt deposits. R. F. Schultz and I. Lavine. flow sheet bibliog il diag Ind & Eng Chem 34:59-64 Ja '42

Slovakia

Slovakia's mineral output, 1940 and 1941. For Comm W 8:46 Jl 18 '42

South Africa

South Africa's minerals help war effort; production and exports, 1940. For Comm W 8:27 S 12 '42

Turkey

Turkey's mineral resources. Economist 141:788 D 27 '41

United States

Wartime Washington and the mineral industries. A. B. Parsons. Min & Met 23:459-63 S '42

MINERAL lands

See also

Mines and mineral resources

Oil lands

MINERAL waters

Geochemical genesis of Saratoga mineral waters and the spectrochemical analysis of their characteristic trace elements; abstract. L. W. Strock. Science 94:551 D 12 '41

Analysis

Geochemical data on Saratoga mineral waters, applied in deducing a new theory of their origin. L. W. Strock. bibliog diags Am J Sci 239:857-98 D '41

MINERAL wool

Efficiency. Published quarterly by Industrial mineral wool institute, 441 Lexington av, New York

Insulation of cold pipe lines; data sheet. diags Heating-Piping 14:415 Jl '42

NMWA's fuel saving campaign. Sheet Metal Worker 33:42 Jl '42

Specifications for mineral wool in low temperature installations. diags Refrig Eng 43:287-91 My '42

MINERALITE. See Aluminum silicates

MINERALOGICAL analysis

Contact print method; determination and localization of metallic minerals. G. Gutzeit. bibliog il Can Min J 63:437-44 Jl '42

Mineral matter in coal. G. C. Sprunk and H. J. O'Donnell. il Min Cong J 28:20-3+ Je '42

Spectroscopic distribution of minor elements in igneous rocks from Jamestown, Colorado. J. M. Bray. map Geol Soc Bul 53:765-814 bibliog(p810-14) Ja '42

See also

Dust—Analysis

Rocks—Analysis

MINERALOGY

Impact of mineralogy on chemical industry; abstract. S. J. Tomkeieff. Chem & Ind 61:268 Je 13 '42

Nevada's common minerals (including a preliminary list of minerals found in the state). V. P. Gianella. (Geology and mining ser. 36) 110p bibliog(p8-10) Univ. of Nevada, Reno '41

See also

Coal

Crystallography

Geology

Metals

Minerals

Mines and mineral resources

Ore deposits

Precious stones

Rocks

MINERALOGY, Determinative

Calculation of mineralogical composition of feldspar by chemical analysis. E. W. Koenig. bibliog Am Cer Soc J 25:420-2 O 1 '42

Optical mineralogy. A. F. Rogers and P. F. Kerr. 2d ed 390p $3.75 McGraw-Hill '42

MINERALS

Asbestos in South Africa. W. E. Sinclair. il Eng & Min J 143:62-4 Jl '42

Axis and strategic minerals. E. W. Pehrson. Eng & Min J 143:42 My '42

Geological significance of magnetic properties of minerals. C. W. Davis. In U S Bur Mines Bul 425:362-6 '41

Igneous rocks of the Highwood mountains, Montana; mineralogy. E. S. Larsen and others. bibliog diag Geol Soc Bul 52:1841-5, pl 1 D '41

Igneous rocks of the Highwood mountains, Montana; petrology. E. S. Larsen and others. Geol Soc Bul 52:1857-68 D '41

Industrial minerals, 1941. S. H. Dolbear. Eng & Min J 143:90-2 F '42

MINERALS—*Continued*

Mineral fillers for plastics. C. L. Harness. Rock Prod 45:88 Je '42

Minerals, old and new, from the sea; abstract. E. F. Armstrong. Engineer 174:140 Ag 14 '42

Nonmetallic industrial minerals, 1941. P. M. Tyler and O. Bowles. il Min & Met 23:80-6 F '42

Nonmetallic minerals needed for national defense; building materials. L. J. O'Neill. U S Bur Mines Information Circ 7179:1-13 '41

Plentiful supply of nonmetallic minerals aids the war effort; high lights of Industrial minerals division symposium, A.I.M.E. annual meeting. P. M. Tyler. il Min & Met 23:205-8 Ap '42

Possible special products may help to supply shortages. N. C. Rockwood. Rock Prod 45:43-4 Ja '42

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

Progress in the study of exsolution in ore minerals. G. M. Schwartz. bibliog Econ Geol 37:345-64 Ag '42

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

Report of the Nonmetals division, fiscal year 1941. O. C. Ralston and A. G. Stern. bibliog pls U S Bur Mines Rep of Invest 3599: 1-33 '41

X-ray data on several phosphate minerals. D. McConnell. bibliog Am J Sci 240:649-57 S '42

See also

Aggregates
Apatite
Asbestos
Asphalt
Bentonite
Chromite
Clay
Coal
Concretions
Cyanite
Feldspar
Flotation process (non-metals)
Kaolin
Loellingite
Magnetite
Metals
Mica
Mineral industries
Mines and mineral resources
Ore deposits
Petroleum
Phosphates
Potash
Precious stones
Quartz
Rocks
Salt
Sand
Silicates
Sulfur
Vermiculite

MINERALS in plants. See Plants—Mineral content

MINERALS in the body

Minerals in nutrition. Z. T. Wirtschafter. 175p $1.75 Reinhold pub. corp. '42

Vitamins and minerals for everyone. A. F Pattee. 242p $2 Putnam '42

MINERS

Definition of hours worked in underground mines; the Montana Supreme court. Monthly Labor R 54:452-3 F '42

Drastic manpower control in lumbering and mining is indication of what may be done generally. Am Mach 86:1024f S 17 '42

Earnings and hours in mining and milling of nonferrous metals, August 1941. H. Ober, J. Loft and A. C. Lakenan. Monthly Labor R 54:1374-95 Je '42

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Labor shortage puts women to work in western mine. il Comp Air M 47:6866-7 O '42

Metal mining's manpower problem. Min Cong J 28:23-31 S '42

Trouble in the mines. E. Rowe. Personnel J 20:172-6 N '41

Wanted: miners. il Business Week p56+ Ag 1 '42

Women in mines. il Business Week p35+ S 12 '42

See also

Coal miners
Copper miners
Gold miners
Mine foremen
Mine officials union of America

Diseases and hygiene

Dental status of adult male mine and smelter workers. H. P. Brinton, D. C. Johnston and E. O. Thompson. bibliog Pub Health Rep 57: 218-28 F 13 '42

Health and safety. O. A. Glaeser. Min & Met 23:61 F '42

Health and working environment of nonferrous metal mine workers. W. C. Dreessen and others. (Pub. health bul. 277) il diags map 110p bibliog (p101-5) U.S. Public health service, Washington; pa 20c Supt. of doc. '42

Health of workers in nonferrous-metal mines. Monthly Labor R 55:259-62 Ag '42

Mercury poisoning as a mining hazard. S. J. Davenport and D. Harrington. U S Bur Mines Information Circ 7180:1-27 bibliog (p26-7) '41; Excerpts. Eng & Min J 143: 119-20+ Mr '42

Salivation hazard lessened in quicksilver mining; spraying with lime sulphur solution. T. Soule. il Eng & Min J 143:51-3 Ap '42

Silicosis among metal mine workers. Pub Health Rep 57:798-9 My 22 '42

Sun bathing by miners in Great Britain; abstract. W. Beaumont. Science 96:sup7 Jl 31 '42

See also

Coal miners—Diseases and hygiene

Training

See Mining schools and education

Canada

Accident experience in the mining industry. R. H. Cleland. Can Min J 63:518-23 Ag '42

Colombia

Timmins Ochali's safety work headed by management; welfare activities also receive attention. F. K. Wilson and B. F. Darnell. Eng & Min J 143:55-6 Je '42

France

Hours of work in French mines and quarries. Monthly Labor R 53:1287 N '41

Utah

Health and working environment of nonferrous metal mine workers. W. C. Dreessen and others. (Pub. health bul. 277) il diags map 110p bibliog (p101-5) U.S. Public health service, Washington; pa 20c Supt. of doc. '42

MINERS' lamps. See Safety lamps, Electric

MINES and mineral resources

America turns "pro"; survey of raw materials for guns, tanks and battleships. H. F. Lee. Barron's 22:3-4 Ja 19 '42

British association conference on mineral resources and the Atlantic charter. Engineer 174:91-3, 111-13, 139-40, 150-1, 179-80 Jl 31-Ag 28 '42; Chem Age (Lond) 47:103-5 Ag 1 '42

Federal and state bureaus and officials concerned with mineral resources; U.S. and Canada. Min & Met 23:129-31 F '42

Mineral needs of a world at war. J. R. Suman. Min & Met 23:9-13 Ja '42

Resources of the continents. K. F. Mather. Science 96:125-7 Ag 7 '42

World mineral resources; Russia's favourable position. Elec R (Lond) 131:169-70 Ag 7 '42

See also

Aluminum
Antimony
Asbestos
Clay
Coal
Coal mines and mining
Copper mines and mining
Geology
Gold mines and mining
Graphite
Hydraulic mining
Iron mines and mining
Iron ores
Lead mines and mining
Lignite
Manganese mines and mining
Mercury mines and mining
Metals
Mine management
Minerals
Miners
Mining engineering
Mining industry and finance
Mining law

MINES and mineral resources—See also—*Cont.*

Molybdenum
Oil shales
Ore deposits
Petroleum
Petroleum supply
Phosphates
Potash
Precious metals
Prospecting
Quarries and quarrying
Silver mines and mining
Sulfur
Talc
Tantalum
Tin mines and mining
Tungsten
Tungsten mines and mining
Zinc mines and mining

Bibliography

Among the newer books. Published in monthly numbers of Mining and metallurgy

Alabama

Flotation of weathered Alabama graphitic schists for crucible flake. J. B. Clemmer and others. (Geol. survey bul. 49) 101p Univ. of Alabama, University, Ala. '41

Geology and mineral resources of Cherokee county. E. O. Bowles. (Circ. 15) 38p bibliog(p35-8) Geological survey, University, Ala. '41

Alaska

Chromite deposits of Kenai peninsula, Alaska. P. W. Guild. diag map U S Geol S Bul 931-G:139-75, pl 24-31; pa 50c Supt. of doc. '42

Mineral industry of Alaska in 1939. P. S. Smith. fold map U S Geol S Bul 926-A:1-106; pa 20c Supt. of doc. '41

Mineral industry of Alaska in 1940. P. S. Smith. pl U S Geol S Bul 933-A:1-102; pa 35c Supt. of doc. '42

Nickel deposits of Bohemia basin and vicinity, Yakobi Island, Alaska. J. C. Reed and J. V. Dorr, 2d. map U S Geol S Bul 931-F: 105-38, pl 20-23; pa 70c Supt. of doc. '42

See also
Gold mines and mining—Alaska

Appalachian valley

Source beds of manganese ore in the Appalachian valley. G. W. Stose. Econ Geol 37: 163-72 My '42

Argentina

Argentina; mineral industry expanding. T. M. Ezcurra. il map Eng & Min J 143:102-5 Ag '42

Metals from Argentina. W. P. Schuck. Metal Prog 41:86-7 Ja '42

Mining tour through South America. J. B. Huttl. il Eng & Min J 143:49-51 Ap '42

Arizona

Arizona tungsten deposits. Min & Met 23: 464 S '42

Making a three-metal separation at the Duquesne group; Callahan Zinc-Lead's flotation plant. J. B. Huttl. flowsheet il Eng & Min J 142:56-8 N '41

Minerals of Arizona. F. W. Galbraith. (Bur. of mines bul. 149, Geological ser. 15) 82p bibliog(p3-4) Univ. of Arizona, Tucson '41

Mining and milling tungsten ores at Boriana. W. H. Munds. il Min Cong J 28:14-16 S '42

Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42

See also
Mining industry and finance—Arizona

Arkansas

Arkansas' natural resources herald important industrial developments. L. A. Henry. il map Chem & Met Eng 49:93-5 Je '42

Mineral resources of Arkansas. G. C. Branner. 101p bibliog(p81) Arkansas geological survey, Little Rock '42

See also
Manganese mines and mining—Arkansas
Petroleum—Arkansas

Australia

Australia, 1941. P. G. Tait. il Eng & Min J 143:70-2 F '42

See also
Gold mines and mining—Australia
Petroleum—Australia

Bolivia

Bolivia; nation's economy rests upon export of tin, antimony, lead, tungsten, and other metals. G. V. Bilbao la Vieja. il map Eng & Min J 143:94-8 Ag '42

Concentrating tungsten ore by hand in Bolivia. H. L. Dotson. il Eng & Min J 143:64 Je '42

Mining tour of South America. J. B. Huttl. il Eng & Min J 143:53-5 My '42

See also
Silver mines and mining—Bolivia
Tin mines and mining—Bolivia

Brazil

Brazil; exceptional reserves of iron, manganese, and nickel. E. A. Teixeira. il maps Eng & Min J 143:89-93 Ag '42

Brazilian exportation of tungsten (mineral) from 1937 through 1941. Chem Ind 51:614 O '42

Brazilian metals. Economist 142:357-8 Mr 14 '42

Brazilian quartz, a strategic mineral. P. F. Kerr. Min & Met 23:374-5 Jl '42

Brazil's strategic mineral resources. C. W. Wright. il map Min Cong J 28:38-43 O '42

Deposits of strategic minerals in Brazil reviewed. C. E. Nabuco de Araujo, jr. Chem & Eng N 20:622+ My 10 '42

Mining tour through South America. J. B. Huttl. flow sheet il Eng & Min J 143:35-9 Mr; 46-8 Ap '42

World-wide chemistry. C. E. Nabuco de Araujo, jr. Chem & Eng N 20:419+ Mr 25 '42

British Columbia

British Columbia mining in 1941. H. G. Nichols. il Can Min J 63:90-2 F '42

See also
Gold mines and mining—British Columbia

California

California's chromite assumes new importance. J. B. Huttl. flow sheets il Eng & Min J 143:43-6 O '42

Magnesium-bearing minerals in the Boulder Dam area for the production of magnesium metal. J. Schlocker. bibliog U S Bur Mines Information Circ 7216:1-16 '42

Mining and refining of diatomite; flow sheet. il Chem & Met Eng 49:110-13 Ag '42

Quicksilver and antimony deposits of the Stayton district. E. H. Bailey and W. B. Myers. map U S Geol S Bul 931-Q:405-34, pl 64-7; pa 40c Supt. of doc. '42

Status of ore discovery in California and Oregon. C. D. Hulin. il Min Cong J 28: 21-3 Ja '42

Tungsten deposits in the Sierra Nevada near Bishop; a preliminary report. D. M. Lemmon. diags U S Geol S Bul 931-E:79-104, pl 13-19; pa 35c Supt. of doc. '41

See also
Gold mines and mining—California
Mercury mines and mining—California
Petroleum—California
Petroleum industry and trade—California

Canada

Canada, 1941. H. B. DeMille. Eng & Min J 143:61-3+ F '42

Discovery and development of radium at Great Bear lake. C. Camsell. il Franklin Inst J 233:545-57 Je '42

Mineral production, 1941. Can Chem & Process Ind 26:91 F '42

Mineral production of Canada, 1941. W. H. Losee. il Can Min J 63:71-5 F '42

Mines licensed. Business Week p36+ Jl 11 '42

MINES and mineral resources—Canada—*Cont.*

Mining in Canada; historical account. T. A. Rickard. bibliog Can Min J 63:502-4 Ag '42

Nation wide search for tungsten ore. Can Min J 62:835 D '41

Tungsten in Canada. D. C. McLaren. flow sheet map Eng & Min J 143:55-9 O '42

See also

Gold mines and mining—Canada

Mineral industries—Canada

Mining industry and finance—Canada

Ceylon

Mining plumbago in Ceylon. J. N. Peterson. il Comp Air M 47:6756-9 Je '42

Chile

Chile; its name synonymous with copper, also produces iron and several ferroalloy metals. F. Benitez. il map Eng & Min J 143:75-80 Ag '42

Mining tour of South America. J. B. Huttl. flowsheet il Eng & Min J 143:50-3 My '42

Physiographic setting of the nitrate deposits of Tarapacá, Chile; its bearing on the problem of origin and concentration. J. L. Rich. il maps Econ Geol 37:188-214 My '42

Colombia

Colombia; systematic survey needed to determine mineral resources and stimulate search for metals other than gold. A. Echeverri Villa. il map Eng & Min J 143:109-11 Ag '42

See also

Petroleum—Colombia

Colorado

Nickel deposit near Gold Hill, Boulder county. E. N. Goddard and T. S. Lovering. U S Geol S Bul 931-O:349-62, pl 59-60; pa 30c Supt. of doc. '42

Ore discovery in Colorado, Wyoming and the Black Hills. J. Boyd. il Min Cong J 28:24-6 Ja '42

Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42

See also

Gold mines and mining—Colorado

Lead mines and mining—Colorado

Costa Rica

Costa Rica; war is stimulating investigation of mineral resources. P. Malozemoff. il map Eng & Min J 143:113-14 Ag '42

Cuba

Manganese deposits of Cuba. C. F. Park, jr. Eng & Min J 143:48 O '42

Nickel from Cuba. W. L. Batt. il For Comm W 7:4-5+ My 30 '42

Ecuador

Ecuador; increasing demand for strategic metals will aid development of mineral economy. H. W. van de Putte. il map Eng & Min J 143:106-8 Ag '42

Europe

Supplementary data, Mineral map of Europe. 61p bibliog(p60-1) $3.50 Pure oil co, Chicago '40

Florida

See also

Phosphate rock—Florida

Georgia

Cartersville manganese ores studied in T.V.A. laboratory; magnetic roasting tests. diags Eng & Min J 143:54 Ap '42

Forsterite olivine deposits of North Carolina and Georgia. C. E. Hunter. 117p Georgia Dept. of natural resources, Division of mines, mining and geology, Atlanta '41

New Riverside, producer of barytes in Georgia. A. H. Hubbell. flow sheet il Eng & Min J 143:62-5 O '42

Germany

German light metal supplies. Iron Age 149:69 Je 11 '42

Germany's mineral supply. il Eng & Min J 142:35-6 D '41

Germany's new mineral position. C. W. Wright. Engineering 153:284-5 Ap 10 '42

Honduras

Honduras; lack of transportation limits present value of some known base-metal ore deposits. K. H. Matheson. il map Eng & Min J 143:112-13 Ag '42

Idaho

Discovery in the Intermountain area. W. R. Landwehr. il map Min Cong J 28:18-21 Ja '42

Metal and coal mining districts of Idaho, with notes on the nonmetallic mineral resources of the state. C. P. Ross. (Bur. of mines and geology pamphlet 57) 2v Univ. of Idaho, Moscow, Idaho '41

New developments in ore discovery in Montana and northern Idaho. J. Edgar and N. M. Smith. il Min Cong J 28:27-8 Ja '42

Saga of the Hecla mining company. H. W. Ingalls. il Comp Air M 46:6591-5 N '41

Tungsten resources of the Blue Wing district, Lemhi county. E. Callaghan and D. M. Lemmon. diags maps U S Geol S Bul 931-A:1-21, pls 1-5; pa 30c Supt. of doc. '41

See also

Gold mines and mining—Idaho

Illinois

See also

Petroleum industry and trade—Illinois

Japan

Japan no match for United States in essential metals supplies. Steel 109:23-4 D 15 '41

Kansas

Geology of Riley and Geary counties. J. M. Jewett. 164p bibliog(p116-18) Kansas, Geological survey, Univ. of Kansas, Lawrence '41

See also

Petroleum—Kansas

Latin America

Good geologists made good neighbors. W. E. Pratt. Am Assn Pet Geologists Bul 26:1207-13 Jl '42; Same. Oil & Gas J 40:44-5+ Ap 23 '42

Latin America number. il maps Eng & Min J 143:75-115 Ag '42

Mineral map of Latin America. Eng & Min J 143:supp Ag '42

Sources of war materials; importance of Latin America. Elec R (Lond) 130:282-3 F 27 '42

Strategic minerals available in Latin America. J. S. McGrath. Min Cong J 28:73-4 F '42

Maine

Genesis of some ore deposits of southeastern Maine. C. Li. maps Geol Soc Bul 53:15-51 bibliog(p46-7) pl 1-5 Ja '42

Manitoba

Chromite in southeastern Manitoba. J. P. de Wet. Can Min J 63:657-8 O '42

Large electric mine hoists at Flin Flon. J. L. McKeever and W. T. Fanjoy. il Can Min J 63:232-5 Ap '42

Mining in Manitoba during 1941. J. P. de Wet. il Can Min J 63:93-8 F '42

Mexico

Mexico; government joins with large and small mine operators to speed production of vital minerals. A. Terrones Benitez. il map Eng & Min J 143:98-101 Ag '42

See also

Mining industry and finance—Mexico

Michigan

See also

Iron mines and mining—Michigan

MINES and mineral resources—*Continued*

Minnesota

Manganese for emergency use on the Cuyuna range. F. F. Grout. Eng & Min J 143:43-4 Jl '42

Mississippi

Adams County mineral resources; Geology, by F. E. Vestal; Tests, by T. E. McCutcheon. (Bul. 47) 200p bibliog(p141-2) State geological survey, University, Miss. '42

Forrest County mineral resources: geology, by V. M. Foster; Tests, by T. E. McCutcheon. 87p bibliog(p59) State geological survey, University, Miss. '41

Union County mineral resources. L. C. Conant; T. E. McCutcheon. 158p bibliog(p98-100) State geological survey, University, Miss. '42

See also
Iron mines and mining—Mississippi

Montana

Geology and ore deposits of the Dillon nickel prospect, southwestern Montana. H. Sinkler. il map Econ Geol 37:136-52 Mr '42

Native copper deposit near Jefferson City. J. D. Forrester. maps Econ Geol 37:126-35 Mr '42

New developments in ore discovery in Montana and northern Idaho. J. Edgar and N. M. Smith. il Min Cong J 28:27-8 Ja '42

Opening Montana chromite deposits. W. J. Moore. il Comp Air M 47:6765-7 Je '42

See also
Petroleum—Montana

Mozambique

Minerals of Mozambique; African raw materials await development. Chem Age (Lond) 46:68 Ja 31 '42

Nevada

Discovery in the Intermountain area. W. R. Landwehr. il map Min Cong J 28:18-21 Ja '42

Magnesium-bearing minerals in the Boulder Dam area for the production of magnesium metal. J. Schlocker. bibliog U S Bur Mines Information Circ 7216:1-16 '42

Pioche today; current operations in Nevada's 75-year-old camp. J. B. Huttl. il diags Eng & Min J 142:35-7 N '41

Tin deposit at Majuba Hill, Pershing county, Nevada. W. C. Smith and V. P. Gianella. map U S Geol S Bul 931-C:39-55, pl 9-10; pa 25c Supt. of doc. '42

Tin deposits of northern Lander county. C. Fries, jr. pl map U S Geol S Bul 931-L:279-94; pa 20c Supt. of doc. '42

See also
Gold mines and mining—Nevada
Manganese mines and mining—Nevada
Mercury mines and mining—Nevada

New Brunswick

Mining situation in New Brunswick 1941. W. E. McMullen and W. J. Wright. Can Min J 63:104-5 F '42

New Hampshire

Mica-bearing pegmatites of New Hampshire; a preliminary report. J. C. Olson. maps U S Geol S Bul 931-P:363-403, pl 61-3; pa 25c Supt. of doc. '42

New Hampshire minerals and mines. T. R. Meyers. 49p bibliog(p43-8) State planning and development commission, Concord, N.H. '41

New Mexico

Potash company of America; producer of sylvite at Carlsbad. R. A. Pierce and L. D. Anderson. il Eng & Min J 142:37-41 D '41; 143:38-41 Ja '42

Prehistoric mining in America; Mount Chalchihuitl. E. R. Harrington. il Explosives Eng 19:358-60 D '41

New South Wales

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

New York (state)

Mining and grinding feldspar. R. C. Moore. il Rock Prod 45:52-3 S '42

Newfoundland

Geology and mineral deposits of the Fleur-de-Lys area. J. O. Fuller. (Bul. 15) 41p bibliog(p31-2) Newfoundland geological survey, St John's, Newfoundland '41

Nicaragua

See also
Gold mines and mining—Nicaragua

North Carolina

Forsterite olivine deposits of North Carolina and Georgia. C. E. Hunter. (Geological survey, bul. 47) 117p Georgia Dept. of natural resources, Division of mines, mining and geology, Atlanta '41

Mica-bearing pegmatites, in Spruce Pine district. Eng & Min J 142:49 D '41

Northwest Territories, Canada

Canada has tungsten producer in Northwest Territories; Slave Lake gold mines, ltd, on Outpost Island, recovers both metals, as well as copper. C. Bruder. il Eng & Min J 143:47-9 My '42

Tungsten prospecting in Gilmour Lake area. W. S. Walker. Can Min J 63:145-9 Mr '42

Nova Scotia

Nova Scotia mineral industry during 1941. J. P. Messervey. Can Min J 63:106-7 F '42

Oklahoma

Oklahoma offers exceptional inducements to process industries. R. H. Dott, A. L. Burwell and J. O. Beach. il Chem & Met Eng 49:98-100 Je '42

See also
Petroleum—Oklahoma

Ontario

Geology and paragenesis of the nickel ores of the Cuniptau mine, Goward Nipissing district. B. T. Sandefur. il Econ Geol 37:173-87 My '42

Mica at Eau Claire. J. C. Browning. Can Min J 63:658-9 O '42

Mining in Ontario in 1941. J. C. Browning. il Can Min J 63:80-3 F '42

Timagami map area. W. W. Moorhouse. map Can Min J 63:236-9 Ap '42

See also
Gold mines and mining—Ontario
Iron mines and mining—Ontario

Oregon

Status of ore discovery in California and Oregon. C. D. Hulin. il Min Cong J 28:21-3 Ja '42

Strategic and critical minerals; a guide for Oregon prospectors. L. W. Staples. 27p State dept. of geology and mineral industries, Portland, Ore. '42

See also
Mercury mines and mining—Oregon

Pennsylvania

See also
Clay—Pennsylvania
Coal—Pennsylvania
Petroleum—Pennsylvania

Peru

Mining tour of South America; Cerro de Pasco's great mining enterprise. J. B. Huttl. il Eng & Min J 143:47-9 Je '42

Peru; opportunities await technically trained personnel. C. del Solar. il map Eng & Min J 143:81-5 Ag '42

MINES and mineral resources—*Continued*

Philippine Islands

Chromite in the Philippines. W. F. Boericke. il map Eng & Min J 142:38-40 N '41

Löllingite from the Philippine Islands. J. Murdoch and D. L. Gardner. il diag Econ Geol 37:69-75 Ja '42

Transporting ore in the Philippine Islands; with cost data. W. F. Boericke. il Min Cong J 28:44-7 Ja '42

See also

Iron mines and mining—Philippine Islands

Quebec

Bosquet-Joannès area. H. C. Gunning. (Geol. survey memoir 231) 110p pa 25c Canada. Dept. of mines and resources, Ottawa '41

Cléricy and La Pause map-areas. J. W. Ambrose. (Geol. survey memoir 233) 86p bibliog(p2-3) pa 25c Canada. Dept. of mines and resources, Ottawa '41

Concentration of magnesitic dolomite from Kilmar, Quebec. il diag Can Min J 63:157-65 Mr '42

Mining in Quebec during 1941. J. B. DeMille. il Can Min J 63:84-9 F '42

Noranda district. M. E. Wilson. (Geol. survey memoir 229) 162p pa 50c Canada. Dept of mines and resources, Ottawa '41

Underground transportation of ore at Noranda. H. A. Quinn. il diags plan Can Min J 62:673-82, 765-73 O-N '41

See also

Gold mines and mining—Quebec

Russia

Industrial history of Russia. E. C. Smith. Engineering 152:425 N 28 '41

Mineral resources of the U.S.S.R. D. Williams. Engineer 174:179-80 Ag 28 '42

Russia's eastern industrial reserve. Min Cong J 27:64 D '41

Siberian resources for Soviet warfare. G. B. Cressey. Science 95:264-6 Mr 13 '42

Soviet industries in the Urals. E. C. Ropes. il For Comm W 7:6-11+ My 23 '42

World mineral resources; Russia's favourable position. Elec R (Lond) 131:169-70 Ag 7 '42

South Africa

Asbestos in South Africa. W. E. Sinclair. il Eng & Min J 143:62-4 Jl '42

War metals from South Africa. Economist 143:418 O 3 '42

See also

Gold mines and mining—Transvaal

South America

Mining tour through South America. J. B. Huttl. flow sheet il Eng & Min J 143:35-9 Mr; 46-51 Ap; 50-5 My; 47-51 Je '42

South America, 1941. N. B. Knox. il Eng & Min J 143:66-8 F '42

South Dakota

Tin-bearing pegmatites of the Tinton district, Lawrence county. W. C. Smith and L. R. Page. plan maps U S Geol S Bul 922-T: 595-630, pl 90-94; pa $1 Supt. of doc. '41

Southwestern states

Factors in ore discovery in the Southwest. R. S. Butler. il Min Cong J 28:28-30 Ja '42

Spain

Spain's mining industry today. C. S. Thomas. map Eng & Min J 143:55-7 My '42

Tennessee

Manganese resources of east Tennessee. S. O. Reichert. 204p bibliog(p194-6) Dept. of conservation, Division of geology, Nashville, Tenn. '42

See also

Zinc mines and mining—Tennessee

Texas

Final report covering the period from March 4, 1939 to Sept. 30, 1941 for the State-wide paleontologic-mineralogic survey in Texas. 85 numb l Univ. of Texas, Bur. of economic geology, Austin '41

Mammoth-St Anthony's complex operations; gold, silver, lead, molybdenum, and vanadium recovered from low-grade gold ore. J. B. Huttl. flow sheets il diag Eng & Min J 142:42-5 D '41

Texas is abundantly endowed with cheap fuel and variety of minerals. R. L. Dabney. map Chem & Met Eng 49:101-3 Je '42

See also

Iron ores—Texas

Petroleum—Texas

United States

Activities of Metals reserve co.; a report on domestic production of strategic materials. C. B. Henderson. Eng & Min J 143:78+ Ap '42

Annual report of the Mining division, fiscal year 1941. C. F. Jackson. bibliog pls U S Bur Mines Rep of Invest 3596:1-47 '41

Bureau of mines explores country's resources; abstract. R. R. Sayers. Blast F & Steel Pl 29:1231-2 D '41

Defense activity of the Reconstruction finance corporation. C. B. Henderson. il Min Cong J 27:31-3+ N '41

Geological factors in recent ore discoveries. W. R. Landwehr and others. il map Min Cong J 28:18-34 Ja '42

Increased domestic output of vital minerals effected by RFC agencies. Steel 110:52-3 Ap 6 '42

Mining and aircraft production. R. Linton. Aero Digest 40:134, 308 Ja '42

Mining geology; present problem is discovery and exploitation of ore deposits to meet war needs. H. E. McKinstry. il Min & Met 23:57-61 F '42

Olivine; potential source of magnesia. G. W. Pawel. il map Min & Met 23:331-3 Je '42

Prospecting for victory. O. A. Fitzgerald. il Explosives Eng 20:224-7 Ag '42

Race for metals. il map Fortune 25:84-7+ Mr '42

Strategic and critical materials output gains speed. C. B. Henderson. il Min Cong J 28: 14-17 My '42

United States, 1941. H. C. Chellson. Eng & Min J 43:58-60+ F '42

What every miner should know; numerous agencies and aids to promote exploitation of strategic minerals. R. Linton. il Explosives Eng 20:287-91 O '42

Who needs gold? priority order favors production of base metals. Business Week p24 Mr 14 '42

You and the wealth of the earth. S. R. Powers and others. 51 numb l 25c Bur. of educational research in science, Teachers college, Columbia univ, New York '41

See also

Coal mines and mining—United States

Mining industry and finance—United States

Petroleum—United States

United States—Mines, Bureau of

Utah

Discovery in the Intermountain area. W. R. Landwehr. il map Min Cong J 28:18-21 Ja '42

Geology and mineral resources of the Randolph quadrangle, Utah-Wyoming. G. B. Richardson. map U S Geol S Bul 923:1-54, pl 1-8; pa 55c Supt. of doc. '41

Mineralization in the West Tintic mining district. B. F. Stringham. bibliog diags maps Geol Soc Bul 53:267-90, pl 1-2 F '42

See also

Silver mines and mining—Utah

Venezuela

Venezuela; iron, asbestos and other minerals in national mineral economy. N. B. Knox. il map Eng & Min J 143:85-8 Ag '42

MINES and mineral resources—*Continued*

Virginia

Manganese-bearing veins in southwestern Virginia. A. I. Jonas. bibliog map Econ Geol 37:408-23 Ag '42

Occurrence and origin of the titanium deposits of Nelson and Amherst counties, Virginia. C. S. Ross. map U S Geol S Professional Pa 198:1-59, pl 1-19; pa 25c Supt. of doc. '41

Washington (state)

Nickel-gold deposit near Mount Vernon, Skagit county, Washington. S. W. Hobbs and W. T. Pecora. il fold maps U S Geol S Bul 931-D:57-78; pa 15c Supt. of doc. '41

Wyoming

Geology and mineral resources of the Randolph quadrangle, Utah-Wyoming. G. B. Richardson. map U S Geol S Bul 923:1-54, pl 1-8; pa 55c Supt. of doc. '41

See also

Petroleum—Wyoming

Yukon

Mining industry of Yukon, 1939 and 1940. H. S. Bostock. (Geol. survey memoir 234) 40p pa 25c Canada. Dept. of mines and resources, Ottawa '41

MINIMUM wage

Cuban minimum-wage law, 1942. Monthly Labor R 54:1407-8 Je '42

Effect of minimum wage on annual earnings in New York laundries. Monthly Labor R 54:1404-7 Je '42

Effects of a minimum wage in the cotton-garment industry, 1939-41. R. J. Myers and O. C. Clark. Monthly Labor R 54:318-37 F '42

Minimum wages in agriculture in Santa Fe province, Argentina, 1941-42. Monthly Labor R 54:772-3 Mr '42

N.Y. wage law upheld. Comm & Fin Chr 155:1712 Ap 30 '42

Progress of state minimum-wage legislation, 1941. L. Stitt and F. P. Smith. Monthly Labor R 54:585-93 Mr '42

See also

Wages—Law

MINING education. See Mining schools and education

MINING engineering

American copper mine and reduction works; Morenci district of Arizona; Phelps Dodge corporation. plans Engineer 174:70-1, 99-100, 120 Jl 24-Ag 7 '42

Development and operation of the Morenci mine. W. C. Lawson. il Min & Met 23:250-3 My '42

First Pan American congress of mining engineering and geology, Santiago, Chile, Jan. 15-23. C. W. Wright. Min & Met 23:175 Mr '42

Lode gold mine in Colombia. F. K. Wilson and B. F. Darnell. il diag Eng & Min J 143:62-6 Ap; 58-62 My '42

Mining technology, 1941. R. S. Lewis. Eng & Min J 143:76-8 F '42

Reopening and modernizing an abandoned mine; Jamison coal & coke company. W. B. Jamison. il Min Cong J 28:32-3, 36-8 N '42

Silver islet; Lake Superior. T. A. Rickard. il Can Min J 63:565-9 S '42

Success marks first Pan-American mining congress held in Chile. J. B. Huttl. Eng & Min J 143:108+ F '42

See also

Blasting
Coal mines and mining
Copper mines and mining
Drilling and boring (earth and rocks)
Electricity in mining
Gold mines and mining
Hydraulic mining
Iron mines and mining
Mine drainage
Mine equipment—Maintenance and repair
Mine haulage
Mine hoisting
Mine management
Mine ventilation
Mines and mineral resources
Mining machinery
Mining methods
Mining schools and education
Ore handling
Prospecting
Quarries and quarrying
Rock drills
Tin mines and mining
Tunnels and tunneling
Zinc mines and mining

Bibliography

Current Institute papers. Published in Mining and metallurgy

Power

Mahoning's new Diesel unit generates 240 volts a.c. J. H. Edwards. il Eng & Min J 143:55 Ap '42

Power for mining silica. flow diag il diags plan Power Pl Eng 46:68-72 Ap '42

Steam power plant and electrical distribution; Morenci mine. B. F. Koch and S. F. French. il diag Min & Met 23:293-6 My '42

See also

Coal mines and mining—Power
Electricity in mining

Safety measures

Dangerous loading practices. C. W. Abrahamson. Can Min J 63:313-14 My '42

Determining pressure zones in mine pillars. il Min Cong J 28:36-7 Ag '42

Effect of changes in moisture and temperature on mine roof; first report on strata overlying the Pittsburgh coal bed. I. Hartmann and H. P. Greenwald. bibliog pls U S Bur Mines Rep of Invest 3588:1-38 '41

Ground alarms; safe operation of electric draglines. diag Eng & Min J 143:69-70 S '42

Health and safety. O. A. Glaeser. Min & Met 23:61 F '42

John T. Ryan trophies; new awards for achievements in mine safety. Can Min J 63:173-4 Mr '42

Mahoning mine holds presentation exercises. il Explosives Eng 20:264-5 S '42

Metal mine safety, 1941. W. D. Haselton. il Min Cong J 28:60-3 F '42

Milestones in mine safety. Nat Safety N 45:83 Ap '42

Mine accident prevention in the present emergency. J. K. Richardson. il Min Cong J 27:18-22 D '41

Mine safety code. Safety Eng 83:35-6 Je '42

Mining then, and now. G. Webber. il Can Min J 63:242-6 Ap '42

Mobilize for campaign against carelessness in mining; National safety congress, Chicago, Oct. 6-10. Eng & Min J 142:96 D '41

National safety competition of 1941; with list of winners, 1925-1941. W. W. Adams and T. D. Lawrence. il map Explosives Eng 20:192-202 Jl '42

Need a new safety slant? quiz. Coal Age 46:66-7 D '41

Prevention of premature shots during springing of deep drill holes in quarries and open-pit workings. D. Harrington and C. W. Owings. U S Bur Mines Information Circ 7191:1-8 '41

Safety sermonettes (cont) W. B. Paton. Can Min J 62:781-3, 884-6; 63:32-4, 171-3, 240-2, 310-12, 383-5, 515-18, 586-8, 659-61 N '41-Ja, Mr-Je, Ag-O '42

Signposts to safety set up by Board decisions. Coal Age 46:69-70, 72 D '41; 47:58-9 Ja '42

Slusher hoists aid in reducing tramming hazards; Montreal iron mine in Wisconsin. D. E. Fritz. il diag Min Cong J 28:20-4 Ag '42

Status of safety in mining. D. Harrington. U S Bur Mines Information Circ 7181:1-32 '41

Storage and handling of explosives underground. E. D. McNeil, jr. il Explosives Eng 19:355-7 D '41

Timmins Ochali's safety work headed by management; welfare activities also receive attention. F. K. Wilson and B. F. Darnell. Eng & Min J 143:55-6 Je '42

MINING engineering—Safety measures—*Cont.*

War-time safety education at Climax. W. E. Jones. Eng & Min J 143:59-60 O '42

See also

Coal mines and mining—Safety measures

Mine haulage—Safety measures

Mine hoisting—Safety measures

Mine inspection

Study and teaching

See also

Mining schools and education

Tables, calculations, etc.

Planning for optimum rate of draw in cave mining. T. Ertl. Eng & Min J 143:56-9 Jl '42

Water problem

See Mine water

MINING engineers

Mining industry offers career for personnel engineers. J. A. Wilcox. Min & Met 23:337 Je '42

See also

Mining schools and education

also names of engineers, e.g. McAuliffe, Eugene

MINING industry and finance

Geography and the mining industry; natural features and cultural characteristics that may determine success. L. F. Thomas. il Min & Met 22:579-81 D '41

Measuring profits for metals under today's conditions. J. C. Clifford. il Mag of Wall St 70:72-4+ My 2 '42

RFC adopts plan for small mine loans. Min Cong J 28:44 My '42

Valuation of future profits with variable annual income. C. E. Mills. Eng & Min J 142:37 N '41; Discussion. 143:68, 70 Mr '42

See also

Coal trade

Copper industry and trade

Iron industry and trade

Mercury industry and trade

Metal trade

Mine taxation

Mineral industries

Mines and mineral resources

Silver industry and trade

Securities

Mixed outlook for metals; position of leading stocks. Mag of Wall St 69:549-51+ F 21 '42

Profit and dividend drop expected in mining group; position of leading metal stocks. il Mag of Wall St 70:497-9 Ag 22 '42

Argentina

Bank of nation to aid development of natural resources. For Comm W 7:16 My 23 '42

Arizona

History and financing of the Morenci development. C. E. Dodge. il Min & Met 23:248-9 My '42

Canada

Canada, 1941. H. B. DeMille. Eng & Min J 143:61-3+ F '42

Canadian mineral production, 1941. Can Min J 63:37-8 Ja '42

Gold mining and the national economy. R. C. Rowe. il Can Min J 63:76-9 F '42

Problems of the mining industry; increasing production and the need for prospecting. Can Chem & Process Ind 25:649+ D '41

Report of the Department of mines and resources including report of soldier settlement of Canada for the fiscal year ended March 31, 1941. 244p pa 50c Canada. Dept. of mines and resources, Ottawa '41

Mexico

Mexico, 1941. A. H. Hubbell. Eng & Min J 143:68-9 F '42

Nicaragua

See also

Gold mines and mining—Nicaragua

Transvaal

See also

Gold mines and mining—Transvaal

United States

Earnings and hours in mining and milling of nonferrous metals, August 1941. H. Ober, J. Loft and A. C. Lakenan. Monthly Labor R 54:1374-95 Je '42

Effect of government controls on exploration for mines. E. H. Snyder. il Min Cong J 27:23-5; Discussion. R. D. Leisk. 25-6 N '41

See also

Mine taxation

also American smelting and refining company

MINING law

Federal inspection law and coal-mine safety. map Coal Age 46:63-6 D '41

See also

Mine taxation

Petroleum laws and regulations

Canada

Quartz mining regulations in Yellowknife. J. M. McMeekan. il Can Min J 62:827-34 D '41

Oregon

Mining laws of the state of Oregon. rev ed 28p State dept. of geology and mineral industries, Portland, Ore. '42

Pennsylvania

History of legislation for the protection of coal miners in Pennsylvania, 1824-1915. A. Trachtenberg. 239p bibliog(p226-7) $2.75 International publishers, New York '42

MINING machinery

Belt conveyors in metal mining. W. E. Philips. il Min Cong J 28:24-5+ Je '42

Cherry picker for small tunnels; Silver King coalition mines co. diags Eng & Min J 143:58 Ja '42

Earnings in the mining machinery and equipment industry, 1942. H. R. Hosea, O. C. Clark and G. E. Votava. Monthly Labor R 54:1367-73 Je '42

Fluid drive for mining machinery. J. D. Rosebrough. il diags Min Cong J 27:30-4 D '41

How to get machines and materials under war-time priorities. W. A. Nelson; E. W. Bauman. Rock Prod 45:32-4 Mr '42

Metal mining in 1941. J. A. Carpenter. il Min & Met 23:67-9 F '42

Opening Montana chromite deposits. W. J. Moore. il Comp Air M 47:6765-7 Je '42

Scraping and loading in mines. R. V. Pierce and R. N. Bryan. il diags Comp Air M 47:6760-4 Je '42

Underground mechanical loading. J. A. Wilcox. il Min Cong J 27:23-5 D '41

See also

Coal mining machinery

Electricity in mining

Excavating machinery

Hoisting machinery

Mine haulage

Mine hoisting

Rock drills

Shoveling machines

Repair

Maintaining the rock drill. Eng & Min J 143:66-7 O '42

Metallizing, a modern aid in maintenance. il diags Min Cong J 28:17-21 S '42

Planned war-time maintenance and salvage program; Tennessee copper company. L. Weaver. il Eng & Min J 143:53-4 O '42

Repair welding in Alaska. B. L. Crosby. il diags Welding J 21:326-8 My '42

MINING methods

Block caving with slusher hoists and scrapers; Emma Nevada mine of Consolidated coppermines corporation. P. J. Sirkegian. diags Min Cong J 28:11-15 Mr '42

Change over from quarry to mine; Central rock co. opens shaft type limestone mine. B. Nordberg. il diag Rock Prod 45:36-9 S '42

MINING methods—*Continued*

Determining pressure zones in mine pillars. il Min Cong J 28:36-7 Ag '42

How a tough water problem was handled at Jarbidge; sinking the Gray Rock shaft involved pumping seven billion gallons. R. O. Camozzi. il diags Eng & Min J 143:45-8 Jl '42

Idaho mine increases strategic mineral output; Coeur d'Alene company becomes important producer of copper-antimony-silver ore. R. D. Baily. il Eng & Min J 143:52-4 Jl '42

Mechanical loaders help solve a war problem; Tri-state zinc mining district. W. F. Netzeband. il diags Min Cong J 28:18-20 N '42

Metal mining; developments in drilling, blasting and stoping. L. Eaton. diags Min Cong J 28:31-4 F '42

Metal mining in 1941. J. A. Carpenter. il Min & Met 23:67-9 F '42

Mining and milling methods and costs at the Yellow Pine mine, Stibnite, Idaho. J. D. Bradley. flow sheet U S Bur Mines Information Circ 7194:1-12 '42

Mining at the Belleterre Quebec mine; stoping methods have been adapted to conditions. E. Bérubé. plans Can Min J 63:434-6 Jl '42

Mining on the Menominee; with tabulated data on mining practice. A. H. Hubbell. il map Eng & Min J 143:51-5 Ja '42

Mining plumbago in Ceylon. J. N. Peterson. il Comp Air M 47:6756-9 Je '42

Mining technology, 1941. R. S. Lewis. Eng & Min J 143:76-8 F '42

Planning for optimum rate of draw in cave mining. T. Ertl. Eng & Min J 143:56-9 Jl '42

Potash company of America; producer of sylvite at Carlsbad. R. A. Pierce and L. D. Anderson. il Eng & Min J 142:37-41 D '41

Safety sermonettes; safe shrinkage stoping. W. B. Paton. Can Min J 63:310-12 My '42

Scraping and loading in mines. R. V. Pierce and R. N. Bryan. il diags Comp Air M 47:6760-4 Je '42

Slusher hoists aid in reducing tramming hazards; Montreal iron mine in Wisconsin. D. E. Fritz. il diag Min Cong J 28:22-4 Ag '42

Stemming in metal mines; progress report; firing through stemming. W. G. Agnew, J. A. Johnson and M. Mosier. U S Bur Mines Rep of Invest 3646:1-4 '42

Stemming in metal mines; relative advantages and disadvantages of different types of stemming and no stemming when used with 60-percent ammonia gelatin dynamite. J. A. Johnson, W. G. Agnew and M. Mosier. U S Bur Mines Rep of Invest 3612:1-16 '42

Underground mechanical loading. J. A. Wilcox. il Min Cong J 27:23-5 D '41

See also

Blasting
Coal mines and mining—Methods
Copper mines and mining
Gold mines and mining—Placer mining
Hydraulic mining
Iron mines and mining
Lead mines and mining
Mercury mines and mining
Mine haulage
Mine hoisting
Mining engineering
Quarries and quarrying

Stripping operations

Belt conveyors in metal mining. W. E. Philips. il Min Cong J 28:24-5+ Je '42

Copper mining at Morenci. L. S. Cates and others. flow sheets il diags plans maps Min & Met 23:246-99 My '42

Excavating machinery in the ironstone fields. W. Barnes. il Engineer 174:108-11, 128-9, 144-6, 164-6 Ag 7-28 '42

International's new phosphate mine and recovery plant in the Florida pebble field. A. H. Hubbell. il Eng & Min J 143:47-8 S '42

Metering a factor in International minerals & chemical corp.'s phosphate operations; completely electrified mines and plants. J. H. Edwards. il diag plan Eng & Min J 143:43-6 Je '42

New Riverside, producer of barytes in Georgia. A. H. Hubbell. flow sheet il Eng & Min J 143:62-5 O '42

Prevention of premature shots during springing of deep drill holes in quarries and open-pit workings. D. Harrington and C. W. Owings. U S Bur Mines Information Circ 7191:1-8 '41

Progress in shovel and dragline electrification. P. McShane. il Min Cong J 28:16-17 O '42

Truck haulage in Mesabi open-pit practice. R. W. Whitney. il Eng & Min J 143:52-5 Je '42

Trucks in open pit mining observe "safety first" on the Mesabi range. S. E. Sullivan. il Min Cong J 28:22-4 O '42

See also Coal mines and mining—Stripping operations

MINING research

Annual report of the Mining division, fiscal year 1941. C. F. Jackson. bibliog pls U S Bur Mines Rep of Invest 3596:1-47 '41

MINING schools and education

Development of mineral industry education in the United States. T. T. Read. 298p bibliog(p287-9) $2 A.I.M.E. '41

Many coal companies now interested in scholarships. G. H. Deike. Min & Met 23:101-3 F '42

Mineral industry education, 1941. W. R. Chedsey and W. B. Plank. Min & Met 23:87-8 F '42

War sends the coal miner to school; care and repair of the coal industry's mechanized equipment, improved mine safety, etc. D. C. Jones. il Min Cong J 28:23-8 Jl '42

MINING towns

Christmas comes to Madrid, N.Mex.; colorful celebration by coal mining camp. C. Holbrook. il diag Comp Air M 46:6603-6 D '41

Ghost towns hold many tons of scrap. il Steel 111:114-15+ O 5 '42

Housing, health, education and safety at Morenci. G. C. Davis. il Min & Met 23:297-9 My '42

MINNEAPOLIS, Minnesota

Bohemian flats

Bohemian flats. 52p $1.50 Univ. of Minnesota press, Minneapolis '41

Water supply

Purification and softening at Minneapolis. J. A. Jensen. il Civil Eng 12:605-6 N '42

MINNEAPOLIS and St Louis railroad

Bond committees approve plan. Comm & Fin Chr 155:1922 My 18 '42

M. & St L. is out of receivership. map Ry Age 113:450-1 S 19 '42

Reorganization plan. Comm & Fin Chr 155:2008-9 My 25 '42

Sale approved by court. Comm & Fin Chr 156:1054 S 21 '42

MINNEAPOLIS-HONEYWELL regulator company

Growth stocks and the investor. E. N. Chapman. Barron's 21:20 D 22 '41

Preferred stock offered. Comm & Fin Chr 155:1014-15 Mr 9 '42

MINNEAPOLIS, St Paul & Sault Ste Marie railway

Drastic reorganization for Soo line. A. Jansen. Barron's 22:19-20 Ap 13 '42

ICC amends reorganization plan. Comm & Fin Chr 155:2459 Je 29 '42

I.C.C. wipes out Soo line equities. Ry Age 112:654, 664 Mr 28 '42

Reorganization. Comm & Fin Chr 155:1410 Ap 6 '42

MINNESOTA

Minnesota arrowhead country. 231p bibliog (p211-16) $2.50 Albert Whitman & co, Chicago '41

Transition in the northern Lake states. L. A. Salter, jr. J Land & Pub Util Econ 18:92-6 F '42

See also

Geology—Minnesota
Iron mines and mining—Minnesota
Iron ores—Minnesota

MINNESOTA—*Continued*

Commission of administration and finance

Minnesota commission of administration and finance, 1925-1939; an administrative history. L. M. Short and C. W. Tiller. 160p bibliog(p148-50) pa $2 Univ. of Minnesota press, Minneapolis '42

MINNESOTA and Ontario paper company

Bonds of new company well backed by working capital and amply secured by earnings. Comm & Fin Chr 155:1526-7 Ap 16 '42

Earnings, 1940-1941. Comm & Fin Chr 155:1410-11 Ap 6 '42

MINNESOTA mining and manufacturing company

Growth stocks and the investor. E. N. Chapman. Barron's 21:20 D 22 '41

Minnesota Mining; growth company. K. Brandon. Barron's 22:18 Je 8 '42

MINNESOTA power and light company

Status of Minnesota Power & Light bonds. A. Jansen. Barron's 22:19 Je 15 '42

MINORITIES

Fair play, an introduction to race and group relations. H. N. MacCracken and C. G. Post. 43p bibliog(p43) pa 20c C. G. Post, Vassar college, Poughkeepsie, N.Y. '42

Minority peoples in a Nation at war. J. P. Shalloo and D. Young, eds. Ann Am Acad 223:1-198 S '42

MIRRORS

Silver plating of optical glassware; triethanolamine as a reducing agent. R. D. Barnard. Ind & Eng Chem 34:637-8 My '42

Some characteristics of metal mirrors and a new goniorefiectometer. F. Benford and W. A. Ruggles. il diag Opt Soc Am J 32:174-84 Mr '42

See also
Telescope—Mirrors

Manufacture

Metal coatings on non-conducting materials; with complete details for silvering methacrylate resins. S. Wein. il Metal Finishing 39:666-72; 40:24 D '41-Ja '42

Mirror making goes modern; Pittsburgh plate glass co. il Cer Ind 38:56+ F '42

MISCARRIAGE of justice. See Justice, Miscarriage of

MISSING persons

Interim provisions for dependents of missing persons. F. D. McGarey. Trusts & Estates 75:281-3 S '42

Reported missing. Comm & Fin Chr 156:1428 O 22 '42

MISSISSIPPI

See also Petroleum industry and trade—Mississippi

Views

Gulf coast of Mississippi. N. N. Oliver. 105p $2 Hastings house, New York '41

MISSISSIPPI river

Development of Mississippi River channel; model-prototype conformity. F. R. Brown. Am Soc C E Proc 68:1366-8 O '42

Early contributions to Mississippi River hydrology. C. S. Jarvis. Am Soc C E Proc 68:421-44 Mr '42; Discussion. 68:1232-6, 1670-4 S, N '42

Lower Mississippi. H. Carter. 467p bibliog(p443-51) $2.50 Farrar '42

New terminals spring up on "Ole Miss" waterways. map Nat Pet N 34:24-5+ Ja 21 '42

Oil transport on the Mississippi will reach 200 million barrels in 1942. Sci Am 166:242 My '42

Shiftings of the Mississippi river in relation to glaciation. F. Leverett. bibliog maps Geol Soc Bul 53:1283-98 S '42

Wartime and the river; barge traffic on the Mississippi River system. il map Fortune 26:68-75+ Jl '42

Delta

Mississippi delta, a study in isostasy. A. C. Lawson. bibliog diags Geol Soc Bul 53:1231-54 Ag '42

Flood control projects

Highway crossing, Morganza floodway, Louisiana. N. E. Lant. il Roads & Sts 85:30-4 Ag '42

MISSISSIPPI university

Educational institutions of the Memphis section, American chemical society. il Chem & Eng N 20:233-9 F 25 '42

MISSISSIPPI valley

See also
Agriculture—Mississippi valley

MISSISSIPPIAN formations. See Geology, Stratigraphic—Carboniferous

MISSOURI

See also
Geology—Missouri
Paleontology—Missouri
Population—Missouri

State highway commission

New Missouri highway laboratory building. V. H. Lyon. il plans Ind & Eng Chem Anal ed 13:851-4 N 15 '41

MISSOURI Edison company

Financing approved; conditions prescribed by SEC. Comm & Fin Chr 156:697-8 Ag 24 '42

MISSOURI-Kansas-Texas railroad

Large earnings aid M-K-T bonds. A. Jansen. Barron's 22:19-20 O 19 '42

Railroad securities. Comm & Fin Chr 155:1325 Ap 2 '42

Railroad securities; sale of Missouri-Kansas-Texas adjustment 5s. Comm & Fin Chr 156:93 Jl 9 '42

MISSOURI Pacific railroad

Alleghany chairman outlines new reorganization plan. Comm & Fin Chr 155:505 Ja 31 '42

Alleghany corp. opposed to pending reorganization plan. Comm & Fin Chr 154:1266 N 29 '41

Charges bondholders' committee with circumventing ICC rulings. Comm & Fin Chr 154:1380 D 6 '41

Company against proposed plan of reorganization. Comm & Fin Chr 154:1055 N 15 '41

Equipment issues of four roads taken off market. Comm & Fin Chr 155:1514-15 Ap 13 '42

Fight over MOP; Young battles to upset reorganization plan approved by ICC. Business Week p82+ F 7 '42

Missouri Pacific plan threatened; road's management seeks to upset reorganization. A. Jansen. Barron's 21:19-20 N 24 '41

Plans to pay off RFC and bank loans; profits, cash position show sharp increases. Comm & Fin Chr 156:1330 O 12 '42

Railroad securities. Comm & Fin Chr 155:549+ F 5 '42

Railroad securities. Comm & Fin Chr 156:1621 N 5 '42

Railroad securities; voting by security holders on reorganization plan of Missouri Pacific. Comm & Fin Chr 155:1429 Ap 9 '42

Rejection of Stedman reorganization plan for MOP again urged by Young. Comm & Fin Chr 155:697 F 14 '42

Road would amend order. Comm & Fin Chr 155:1840-1 My 11 '42

Security holders reject ICC final plan. Comm & Fin Chr 155:1411 Ap 6 '42

Stedman group attacks Alleghany MOP plan. Comm & Fin Chr 155:541 F 3 '42

Stedman letter scored by Young. Comm & Fin Chr 154:1150 N 22 '41

View of ad attacking committee; insurance companies' position. J. W. Stedman. East Underw 43:5 Ap 10 '42

Young rebuts Stedman re MOP reorganization. Comm & Fin Chr 154:1106 N 20 '41

MISSOURI river

Relationship of Missouri River navigation improvements to valley properties. F. S. Besson. il maps Am Water Works Assn J 34:475-87; Discussion. W. T. Bailey. 487-9 Ap '42

MISSOURI university

School of mines and metallurgy

History of Missouri School of mines and metallurgy. 1020p Phelps County historical soc, Rolla, Mo. '41

MITCHELL, William L. 1879-1936

Awake, America! warning call for action written 16 years ago especially for Aero Digest by Colonel William L. Mitchell. por Aero Digest 40:58 F '42

Billy Mitchell, founder of our Air force and prophet without honor. E. Gauvreau and L. Cohen. 303p $2.50 Dutton '42

MITCHELLS and Butlers

Annual general meeting, 54th, Birmingham. Economist 141:733-4 D 13 '41

MIXED crystals. See Solutions, Solid

MIXERS

Air driven mixers; AR-25 and AR-33 by Mixing equipment co. il Chem Ind 49:645 N '41

Cash mixer for coagulating water. il Water Works & Sewerage 89:281 Je '42

Portable mixing plant; economy in power and in floor space. Chem Age (Lond) 47:336-7 O 17 '42

Reporting what's new in equipment. il diags Chem & Met Eng 48:116-17 N '41

See also

Concrete mixers
Gas mixing
Proportioning equipment
Stirrers

Design

Agitation; performance of propellers in liquid-solid systems. A. W. Hixson and S. J. Baum. diags Ind & Eng Chem 34:120-5 Ja '42

MIXING

Changes in volume on mixing solutions. P. W. Parsons and F. J. Estrada. Ind & Eng Chem 34:949-52 Ag '42

See also

Concrete mixing
Gas mixing

MIXING, Heat of

Heats of mixing in the ternary system ethanol—acetic acid—ethyl acetate by a rapid approximate method. B. Longtin. bibliog J Phys Chem 46:399-405 Mr '42

MIXTURES

Applications of thermodynamics to multicomponent systems. B. H. Sage and R. H. Olds. bibliog il diag Ind & Eng Chem 34:526-32 My '42

Freezing points of binary mixtures of diphenylamine and other organic compounds. O. A. Nelson and L. E. Smith. Am Chem Soc J 64:1057-9 My '42

Graphic method of studying the separation of mixtures by immiscible solvents. L. F. Knudsen and D. C. Grove. Ind & Eng Chem Anal ed 14:556-7 Jl 15 '42

Method for the accurate analysis of gaseous mixtures. C. H. Bamford and R. R. Baldwin. diag Chem Soc J p26-9 Ja '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Statistical mechanics of binary mixtures. T. Alfrey and H. Mark. J Chem Phys 10:303-4 My '42

See also

Gasoline—Alcohol mixtures
Inflammable mixtures
Solution (chemistry)

MOBILE, Alabama

Housing for war; millions of war workers need decent shelter; to give it to them, we must accept billeting and requisitioning. map(p95) Fortune 26:190+ O '42

Streets

Simplifying concrete street construction. il diags Eng N 128:337-8 F 26 '42

MOBILE and Ohio railroad

Distribution; payments to holders of bonds and secured notes. Comm & Fin Chr 156:608 Ag 17 '42

MOBILE gas service corporation

Securities offered. Comm & Fin Chr 154:1597-8 D 20 '41

MOBILIZATION, Industrial. See Industrial mobilization

MODEL houses. See Houses, Model

MODELS

Increasing design tempo through model analysis. J. N. Goodier. il Machine Design 14:62-5+ S '42

Models for the blind. 198p bibliog(p198) 60c; pa 35c Ohio state school for the blind, Columbus '41

Plastic models in war training. il Mech Eng 64:484-5 Je '42

Transparent plastic models for war training classes. il diags Automotive & Aviation Ind 86:38 Ap 15 '42

See also

Airplanes—Models
Coke ovens—Models
Distilleries—Models
Hydraulic models
Mechanical models
Paleontological models
Power plants—Models
Railroads—Models
Relief maps
Structural engineering—Models

MODELS, Mechanical. See Mechanical models

MODULAR design. See Building—Standards

MODULAR service association

Association offers service to builders on coordination of building sizes. il diag Ind Stand 13:117-18 My '42

MOHAIR

Get the most out of mohair; cleaning bus upholstery. H. A. Giles. il Bus Transportation 21:221 My '42

Maintaining mohair upholstery. H. A. Giles. Transit J 86:71 F '42

Service study of three blanket fabrics made from various blends of wool and mohair. R. E. Rogers, M. B. Hays and J. I. Hardy. bibliog diags Am Dyestuff Rep 31:318-24 Je 22 '42

MOHAWK carpet mills, incorporated

Thumbnail stock appraisal. Mag of Wall St 71:134 N 14 '42

MOISTURE

Condensation of moisture and its relation to building construction and operation. F. B. Rowley, A. B. Algren and C. E. Lund. 69p pa 40c Univ. of Minnesota, Eng. experiment station, Minneapolis '41

Determination of moisture in sugar products; corn sugar "70" or "80"; refiners' sirup, final molasses (blackstrap), and hydrol. J. E. Cleland and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 14:124-9 F 15 '42

Hydrogen moisture check by direct electronic method. il diag Electronics 15:100 Ag '42

Improved moisture determination apparatus. J. J. Young. il Soap & San Chem 18:59 Ja '42

Moisture-vapor test cabinet. il diags Mod Packaging 16:78, 80, 82+ N '42

Wrappers tested for moisture loss. G. W. McBride. Food Ind 14:46-7 Ap '42

See also

Coal—Moisture content
Dampness in buildings
Evaporation
Gas—Moisture content
Humidity
Paper—Moisture content
Rayon—Moisture absorption
Soil moisture
Textile fabrics—Moisture absorption
Textile fibers—Moisture content
Tobacco—Moisture content
Water
Water vapor

MOLASSES

Alcoholic fermentation of molasses; rapid continuous fermentation process. H. R. Bilford and others. il diag Ind & Eng Chem 34:1406-10 N '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:49 Je 22; 42 Je 29 '42

Molasses preference order is amended. Oil Paint & Drug Rep 141:7+ Ap 6 '42

Unfermentable reducing substances in molasses. F. W. Zerban and L. Sattler Science 95:647-8 Je 26 '42

MOLASSES—*Continued*

Unfermentable reducing substances in molasses; identification of *d*-allulose. F. W. Zerban and L. Sattler. bibliog il Ind & Eng Chem 34:1180-8 O '42

Analysis

Determination of moisture in sugar products; refiners' sirup, final molasses (blackstrap), and hydrol. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:127-9 F 15 '42

MOLDED products

Acrylic resins for dentures. W. T. Sweeney, G. C. Paffenbarger and J. R. Beall. bibliog il Mod Plastics 19:61-7+ Ap '42

Army helmet liner; laminated phenolic impregnated fabric. il Mod Plastics 19:35-8+ My '42

Bank from beryllium; die construction, use of beryllium copper molds and molding technique for Johnson souvenir banks. il Mod Plastics 19:45 My '42

Basic do's and don't's in applying plastic moldings. W. B. Hoey. il diags Machine Design 14:47-51 Ja '42

Case history of a register. il diag Mod Plastics 20:71-3+ N '42

Cups for crude rubber; injection-molded cellulose acetate butyrate. il Mod Plastics 20:61 S '42

Custom molders of plastics; directory. Machine Design 14:186, 188, 190 O '42

Heavy section injection molding. A. R. Morse. il diags Mod Plastics 19:64-5+ Mr '42

Hemisphere solidarity; examples of South American molding. il Mod Plastics 19:50 F '42

High impact molding compounds; comparison of cotton cord, fabric and wood flour fillers. C. H. Whitlock and R. U. Haslanger. Mod Plastics 19:70-1 Je '42

High strength resins; phenol-aldehyde moulding compositions. T. S. Carswell. Can Chem & Process Ind 26:316 My '42; Same. Chem & Ind 61:214 My 9 '42

Industrial plastic parts; general design considerations. T. N. Willcox. il Product Eng 13:269-72 My '42

Injection-molded Mycalex. T. N. Willcox. il Mod Plastics 19:54-5+ Ap '42

Injection molded telephone handsets. R. M. Spong. il Mod Plastics 19:33+ D '41

Inlaying injection-molded parts. il Mod Plastics 19:62 Je '42

Lignin-enriched filler, a non-critical extender for phenolic molding compositions. J. G. Meiler. il Mod Plastics 20:64-6+ S '42

Marine moldings. il Mod Plastics 19:58 My '42

Molded ammunition rollers; Curtis P-40, carrying .50 calibre machine guns. C. Marquardt. il Mod Plastics 19:40-1, 124+ Ag '42

Molding a one-piece gage face. il diag Mod Plastics 20:73+ S '42

Molding a phenolic-sisal product; Co-Ro-Lite. H. C. Nelson, jr. and L. D. Reed. il diags Mod Plastics 19:52-3, 90 Mr '42

Molding the Thunderer whistle. il diags Mod Plastics 20:43+ S '42

Molding tropical tools; production of heavy machete handle sections. il Mod Plastics 19:38+ Ap '42

Molding with non-critical materials; redwood and lignocellulose fibers and resins, Colemorite 2-L. C. P. Morgan. il Mod Plastics 20:60-1 N '42

Plastics competition award to Philco corp. il Mod Plastics 19:94-5 N '41

Plastics competition award to the McCaskey register co. il Mod Plastics 19:70-1 N '41

Plastics in review. il Published in monthly numbers of Modern plastics

Sectional surface wiring system; sections made of molded phenolics. il Mod Plastics 19:35+ D '41

Shipping and storing extrusions. il Mod Plastics 19:44 My '42

Sweeping in thermoplastics; achievements in injection molded vacuum cleaner housings and accessories. H. R. Husted. il Mod Plastics 19:40-3 My '42

Taps for brass. il Mod Plastics 20:62-3+ N '42

What the product designer should know about plastics. E. Furholmen. diags Mach 48:141-4 Mr; 199-203 Ap; 140-5 My; 140-4 Je; 148-51 Ag '42

See also

Plastic materials
Resinous products

Manufacture

All-American bounce; nitrocellulose table tennis ball. M. Peters. il Mod Plastics 19:47+ D '41

Choice of plastic materials as affected by fabrication. H. C. Hillman. il diags Product Eng 13:584-7 O '42

High-speed compression molding; ignition systems of military cars. H. Chase. il Am Mach 86:154-6 Mr 5 '42

Injection-molding methods; Ford motor company. H. Chase. il Am Mach 86:829-31 Ag 6 '42

Mass production of plastic teeth. H. M. Justi, jr. il Mod Plastics 19:44-5+ D '41

Plastic molding; a comprehensive study. D. A. Dearle. 131p $4 Chemical pub. co. '41

Plastics; a new material of construction. C. Chapman. Engineer 173:353-5 Ap 24 '42

Plastics in a metal plant; department installed by Metal specialty co. W. F. Sherman. il Iron Age 149:59-62 F 26 '42

Woodpulp plastic products. A. W. Uris. il Mod Plastics 19:53-4+ Jl '42

Working transparent plastics. J. Sasso. il diags Aviation 41:86-7+ My; 105, 107, 109+ Je '42

See also

Molding machines
(for plastics)
Molds (for plastics)

Testing

Temperature vs. strength for phenolics. T. S. Carswell, D. Telfair and R. U. Haslanger. bibliog Mod Plastics 19:65-9 Jl '42

MOLDED products, Effect of temperature on

Temperature vs. strength for phenolics. T. S. Carswell, D. Telfair and R. U. Haslanger. bibliog Mod Plastics 19:65-9 Jl '42

MOLDED products, Mechanical

Billion dollar business. il Mod Plastics 19:50-1 Jl '42

Cost factors governing design for plastics. J. Delmonte. il diags Machine Design 14:70-3 Mr '42

Fairlead guide blocks. il diags Mod Plastics 19:62-3+ Jl '42

Fan blades for cooling towers; phenolic-resin-impregnated wood unaffected; textolite. il Mod Plastics 19:46+ D '41

Foundation of production; plastic machine tools. L. T. Bordner. il diags Mod Plastics 20:68-72 S '42

Injection molded thermosetting parts. A. R. Morse. il Mod Plastics 20:41-3+ N '42

Molding an airtight meter for gas mask canisters; Resinox. il Mod Plastics 20:51+ N '42

Plastics and their application to engineering. J. Prior. Engineering 154:324-5 O 23 '42

Plastics competition award to Easy washing machine corp. il Mod Plastics 19:98-9 N '41

Plastics competition award to Hilco corp.; stencil duplicator. il Mod Plastics 19:72-3 N '41

Plastics competition award to Oliver united filters inc.; acid pump impeller and filter drum segment. il Mod Plastics 19:112-13 N '41

Plastics competition award to Union hardware co.; roller skate wheels. il Mod Plastics 19:146-7 N '41

Plastics in the paper industry. W. C. Pugh. Paper Tr J 144:11-13 Ja 1 '42

Plastics in war; war production conference, American society of tool engineers. Iron Age 150:66 O 22 '42

Removing cylinder heads; transparent plastic cup holds rust solvent. il Mod Plastics 19:35 Ap '42

MOLDED products, Mechanical—*Continued*

Saran for injection molding. R. R. Bradshaw and R. D. Lowry. il diags Mod Plastics 20:67-71+ O '42

Strength of plastics; data for thermosetting compounds. H. R. Moyer. Product Eng 13:379-81 Jl '42

Things to consider when designing molded plastic parts. H. C. Hillman. diags Product Eng 13:498-501 S '42

MOLDING

Army's auxiliary booster tube; phenolic woodflour. il diags Mod Plastics 20:65-6+ O '42

Bagasse molding compounds. T. R. McElhinney. il Mod Plastics 20:64-5+ N '42

Cold molding impact material preforms. il Mod Plastics 20:78+ N '42

Compression molding of plastics. J. Delmonte. il Rubber Age 50:117-20 N '41

Injection molding of plastics. J. Delmonte. il Rubber Age 50:271-4 Ja '42

Molding plastic-plywood; Vidal process. il Mod Plastics 19:46-9+ Jl '42

New plastic molding process announced; Walco process. il Product Eng 13:51 Ja '42; Refrig Eng 43:35 Ja '42; Metals & Alloys 15:104 Ja '42

Recent Indian research; shellac moulding powders. il Chem Age (Lond) 47:84 Jl 25 '42

Saran for injection molding. R. R. Bradshaw and R. D. Lowry. il diags Mod Plastics 20:67-71+ O '42

Sheet molding of thermoplastics. il Mod Plastics 19:51 F '42

Vidal process for molded structures. E. E. Miller. il Aviation 41:124-7+ O '42

What type of plastics? compression vs. injection molding. D. A. Dearle. Product Eng 13:331-2 Je '42

See also
Molds (for plastics)

Cost

Cost factors governing design for plastics. J. Delmonte. il diags Machine Design 14:70-3 Mr '42

Economics of automatic molding. R. C. Glasier. Mod Plastics 20:90-2+ N '42

MOLDING (metals). See Foundry practice; Molds (for casting)

MOLDING machines

29th buyers reference number. il Am Mach 86:268 Ja 22 '42

MOLDING machines (for plastics)

Advances in plastics during 1941; molding presses. E. S. Walker. il Mod Plastics 19:60-1 Ja '42

Economics of automatic molding. R. C. Glasier. Mod Plastics 20:90-2+ N '42

Injection molded thermosetting parts. A. R. Morse. il Mod Plastics 20:41-3+ N '42

Saran for injection molding. R. R. Bradshaw and R. D. Lowry. il diags Mod Plastics 20:67-71+ O '42

MOLDING sand. See Sand, Foundry

MOLDS (botany)

Anti-bacterial substances from moulds; citrinin, a metabolic product of penicillium citrinum Thom. H. Raistrick and G. Smith. Chem & Ind 60:828-30 N 22 '41

Anti-bacterial substances from moulds; penicillic acid, a metabolic product of penicillium puberulum Bainier and penicillium cyclopium Westling. A. E. Oxford, H. Raistrick and G. Smith. Chem & Ind 61:22-4 Ja 10 '42

Anti-bacterial substances from moulds; some observations on the bacteriostatic powers of the mould products citrinin and penicillic acid. A. E. Oxford. Chem & Ind 61:48-51 Ja 24 '42

Anti-bacterial substances from moulds; spinulosin and fumigatin, metabolic products of penicillium spinulosum Thom and aspergillus fumigatus Fresenius. A. E. Oxford and H. Raistrick. Chem & Ind 61:128-9 Mr 14 '42

Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42

Bread protection by addition of mold-inhibiting agent. Sci Am 166:189-90 Ap '42

Field testing of mold-resistant properties of interior oil paints. A. M. Partansky. bibliog il Ind & Chem Anal ed 14:527-31 Jl 15 '42

More antiseptics from molds. Science 95:626-7 Je 19 '42

Preventing spoilage by mold and bacteria. E. F. Glabe. il Food Ind 14:46-8 F '42

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

Studies on biological methylation; a summary of recent work and some hypotheses regarding its mechanism. F. Challenger. Chem & Ind 61:397-9, 413-15, 456-8 S 26, O 10, N 7 '42

Uses of microörganisms in the production of chemical products. C. G. Dunn. il J Chem Educ 19:387-92 Ag '42

See also
Fungi
Penicillium

MOLDS (for casting)

Applies atmospheric pressure to secure sound castings. H. F. Taylor and E. A. Rominski. il diags Foundry 70:74-7, 161-4 O '42

Clean foundry moulds. H. A. Forsberg. il Safety Eng 83:9-10 My '42

Deep finned airplane cylinder heads made on production line. E. Bremer. Foundry 70:168-70 S '42

Gating and molding malleable cast iron. C. C. Lawson. il Foundry 70:70-1+ Ja '42

Green sand molds dried by infra red lamps. L. M. Duryee. il Foundry 70:134+ Ap '42

Influences of mold friction on tearing in castings; abstract. J. H. Andrew and H. T. Protheroe. Iron Age 149:69 Mr 12 '42

Light alloy castings in aircraft. Foundry 70:70-1+ Ag '42

Measuring the fluidity of cast steel. H. F. Taylor and E. A. Rominski. il diags Iron Age 148:40-4 N 27 '41

Molding large iron castings; Lynchburg foundry co. P. Dwyer. il Foundry 70:72-5+ Jl '42

Mould and core washes. W. Y. Buchanan. diags Engineering 152:176-7 Ag 29 '41; Discussion. Iron Age 148:60 N 27 '41

See also
Cores
Sand, Foundry
Steel ingots—Molds

Permanent molds

Aluminum permanent mold castings. E. G. Fahlman and H. Chase. il Iron Age 149:36-42 Ap 23 '42

Permanent mold iron strong; abstract. R. Schneidewind and E. C. Hoenicke. Iron Age 150:61-2 Jl 9 '42

Plaster molds

Precision aluminum castings; Antioch plaster mold process. R. R. Kay. il Iron Age 149:50-4 Ap 9 '42

MOLDS (for ceramics)

Fundamental study of clay; casting as a base-exchange phenomenon. A. L. Johnson and F. H. Norton. bibliog diags Am Cer Soc J 25:336-44 Ag 1 '42

Longer service from plaster molds by improved mold shop practice. H. T. Homan. il Cer Ind 38:64+ Mr '42

MOLDS (for glass)

Metallurgical study of cast iron for glass molds. W. H. Bruckner and H. Czyzewski. il Am Cer Soc J 25:381-8 S 1 '42; Same cond. Cer Ind 37:34-5 D '41; Abstract. Glass Ind 22:516 D '41

MOLDS (for plastics)
Flexible molds. S. Wein. il diags Metal Finishing 40:359-62 Jl '42
Mold designed to trim sprues; mold for a venetian blind tassel. W. C. Renwick. diags Mod Plastics 19:68 Mr '42
One way to machine angular surfaces. F. H. Colvin. diags Am Mach 86:114 F 19 '42
Process anneals of alloy mold steels. E. K. Spring and J. K. Desmond. il Mod Plastics 19:61-3+ Mr '42
Soft steel for plastic molds. H. C. Disston and J. K. Desmond. il Metal Prog 41:512-14 Ap '42
Speed begins with the dies. il Mod Plastics 19:55 Jl '42
Steels for plastic molding. J. Delmonte and W. Renwick. il diags Iron Age 149:52-5 My 28 '42
Stock molds. il Published in monthly numbers of Modern plastics
Zinc alloys for molds. J. Delmonte. il Mod Plastics 19:70+ My '42

MOLECULAR association
Associating effect of the hydrogen atom; the N-H-N bond; benziminazoles, glyoxalines, amidines, and guanidines. L. Hunter and J. A. Marriott. Chem Soc J p777-86 N '41
Associating effect of the hydrogen atom; the N-H-N bond; the constitution of the benztriazoles. T. G. Heafield and L. Hunter. Chem Soc J p420-2 Jl '42
Associating effect of the hydrogen atom; the N-H-N bond; virtual tautomerism of the formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p820-3 D '41
Electron-sharing ability of organic radicals; the effect of the radicals in the solvent molecule. F. A. Landee and I. B. Johns. bibliog Am Chem Soc J 63:2895-900 N '41
Electron-sharing ability of organic radicals; the effect of the radicals on the degree of association of polar molecules. F. A. Landee and I. B. Johns. bibliog diags Am Chem Soc J 63:2891-5 N '41

See also
Polymerization

MOLECULAR compounds
Formation and structure of some organic molecular compounds. J. Weiss. Chem Soc J p245-52 Ap '42

MOLECULAR dynamics
Dielectric relaxation as a chemical rate process. W. Kauzmann. bibliog Rs Mod Phys 14:12-44 Ja '42

MOLECULAR rays
Evaluation of functions related to Tait's mean free path. P. Rosenberg. bibliog Phys R 61:528-30 Ap 1 '42
Internal diamagnetic fields. W. E. Lamb, jr. bibliog Phys R 60:817-19 D 1 '41
Recent work in molecular beams. W. H. Bessey and O. C. Simpson. Chem R 30:239-79 bibliog(279 references, p273-9) Ap '42

MOLECULAR rearrangements
Action of sodium on hexamethylacetone. P. G. Stevens and J. H. Mowat. bibliog Am Chem Soc J 64:554-6 Mr '42
Allylic rearrangements; kinetics and mechanisms of the conversion of crotyl and methylvinylcarbinyl chlorides to acetates and ethyl ethers. J. D. Roberts, W. G. Young and S. Winstein. bibliog Am Chem Soc J 64:2157-64 S '42
Chemistry of *o*-terphenyl (*o*-diphenylbenzene); the general reactivity, basal structure and rearrangements of the hydrocarbon. C. F. H. Allen and F. P. Pingert. bibliog Am Chem Soc J 64:1365-71 Je '42
Conjugated diolefins by double bond displacement. A. L. Henne and A. Turk. bibliog Am Chem Soc J 64:826-8 Ap '42
Formation and rearrangement of the diphenylmethyl ether of *o*-cresol. H. A. Iddles and others. bibliog Am Chem Soc J 64:2154-7 S '42
Further studies on a molecular rearrangement induced by ultrasonic waves. E. W. Barrett and C. W. Porter. Am Chem Soc J 63:3434-5 D '41
Molecular rearrangements of 17-hydroxypregnane compounds. H. E. Stavely. bibliog Am Chem Soc J 63:3127-31 N '41
New acid synthesis; the effect of hindrance; methyl tertiary-butyl- and methylethylpropylacetic acids. J. G. Aston and others. Am Chem Soc J 64:300-2 F '42
Olefin rearrangements; the equilibrium of olefins from pinocolyl alcohol. R. K. Smith. bibliog Am Chem Soc J 64:1733-4 Jl '42
Preparation and rearrangement of phenylglycosides. E. M. Montgomery, N. K. Richtmyer and C. S. Hudson. bibliog Am Chem Soc J 64:690-4 Mr '42
Rearrangement of 4-crotyloxy-3,5-dichlorobenzoic acid. D. S. Tarbell and J. W. Wilson. bibliog Am Chem Soc J 64:1066-70 My '42
Rearrangement of 1,1,3,3,5,5-hexamethylcyclohexatriol-2,4,6 to hexamethylbenzene. E. B. Ayres and C. R. Hauser. Am Chem Soc J 64:2461-2 O '42
Rearrangement of O-crotyl-3,5-dichlorosalicylic acid and related compounds. D. S. Tarbell and J. W. Wilson. bibliog Am Chem Soc J 64:607-12 Mr '42
Rearrangements of pyrrole rings in the oxidation of dipyrrylmethanes. A. H. Corwin and K. J. Brunings. bibliog Am Chem Soc J 64:2106-15 S '42
Sterols; rearrangement of 17-bromopregnan-3(β)-ol-20-one. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:216-18 F '42
Sterols; rearrangement of 17,21-dibromo-*allo*-pregnan-3(β)-ol-20-one acetate. R. E. Marker and others. Am Chem Soc J 64:2089-92 S '42
Sterols; rearrangement of 16,17-dibromopregnan-3(β)-ol-20-one. R. E. Marker, R. B. Wagner and E. L. Wittbecker. Am Chem Soc J 64:2093-7 S '42
Structures of certain highly arylated indenones and their behavior with bromine. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2127-30 S '42
Studies in dehydrogenation; spirocyclopentane-1,1′-tetralin. M. Levitz and M. T. Bogert. Am Chem Soc J 64:1719-20 Jl '42
Thermal rearrangement of *m*-acetamidophenyl allyl ether. R. T. Arnold, J. McCool and E. Schultz. Am Chem Soc J 64:1023-5 My '42
Use of deuterium as a tracer in the Claisen rearrangement. G. B. Kistiakowsky and R. L. Tichenor. bibliog Am Chem Soc J 64:2302-4 O '42

See also
Isomerization
Walden inversion

MOLECULAR refraction. See **Refraction, Molecular**

MOLECULAR volume
Apparent molal heat capacities and volumes of the amino acids and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42
Apparent molal volumes of aqueous solutions of sulfuric acid at 25°. I. M. Klotz and C. F. Eckert. Am Chem Soc J 64:1878-80 Ag '42
Apparent volumes of individual ions in aqueous solution. K. Fajans and O. Johnson. bibliog Am Chem Soc J 64:668-78 Mr '42
Molal volumes of aliphatic hydrocarbons at their melting points. G. Egloff and R. C. Kuder. bibliog J Phys Chem 46:296-304 F '42
Molal volumes of solutes; potassium chlorate and hydrochloric acid. O. Redlich and J. Bigeleisen. bibliog Am Chem Soc J 64:758-60 Ap '42
Molal volumes of solutes; sodium acetate and acetic acid. O. Redlich and L. E. Nielsen. Am Chem Soc J 64:761-2 Ap '42
Molal volumes; thermodynamic properties of electrolytes at infinite dilution. O. Redlich and J. Bigeleisen. bibliog Chem R 30:171-9 Ap '42
Molecular volume nomograph for liquid alkanes. D. S. Davis. Ind & Eng Chem 34:797 Jl '42

MOLECULAR volume—*Continued*

Molecular volume of liquid alkanes at corresponding temperatures. G. Egloff and R. C. Kuder. bibliog Ind & Eng Chem 34:372-3 Mr '42

Partial molal volumes of nickel sulfate solutions. R. W. Gelbach and H. M. Louderback. Am Chem Soc J 64:2379 O '42

P-V-T relations and derived quantities for hexanes. E. A. Kelso and W. A. Felsing. bibliog Ind & Eng Chem 34:161-3 F '42

Studies of the physical properties of alicyclic hydrocarbons; molal volumes of monoalicyclic hydrocarbons at 20°C. G. Egloff and R. C. Kuder. bibliog J Phys Chem 46: 281-95 F '42

MOLECULAR weights

Action of light on cellulose; a method for the measurement of the osmotic pressure of colloidal solutions. R. E. Montonna and L. T. Jilk. bibliog diags J Phys Chem 45:1374-81 D '41

Action of sodium on hexamethylacetone. P. G. Stevens and J. H. Mowat. bibliog Am Chem Soc J 64:554-6 Mr '42

Cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1192-9 O '42

Mechanical properties of substances of high molecular weight; rigidities of the system polystyrene-xylene and their dependence upon temperature and frequency. J. D. Ferry. bibliog Am Chem Soc J 64:1323-9 Je '42

Mechanical properties of substances of high molecular weight; viscosities of the system polystyrene-xylene. J. D. Ferry. bibliog Am Chem Soc J 64:1330-6 Je '42

Molecular weight of potassium bromide and the atomic weights of silver, bromine and potassium. R. K. McAlpine and E. J. Bird. bibliog diag Am Chem Soc J 63:2960-5 N '41

Molecular weights of hydrogenolysis products from a Pittsburgh seam bituminous coal. J. F. Weiler, J. J. Ward and H. C. Howard. Am Chem Soc J 64:734-6 Ap '42

Molecular weights of the Schardinger alpha and beta dextrins. D. French and R. E. Rundle. bibliog Am Chem Soc J 64:1651-3 Jl '42

Random reorganization of molecular weight distribution in linear condensation polymers. P. J. Flory. bibliog Am Chem Soc J 64:2205-12 S '42

Signer method for determining molecular weights. E. P. Clark. diags Ind & Eng Chem Anal ed 13:820-1 N 15 '41

Some observations on the oxidation and determination of the molecular weight of polynuclear aromatic compounds. W. P. Campbell, M. D. Soffer and T. R. Steadman. bibliog Am Chem Soc J 64:425-8 F '42

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides and acetates of dodecyl- and octadecylamines. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. Am Chem Soc J 64: 97-101 Ja '42

Synthesis and properties of hydrocarbons of high molecular weight. J. N. Cosby and L. H. Sutherland. bibliog il Am Pet Inst Proc 22(3):13-23; Discussion. 24 '41

Ultracentrifuge; practical aspects of the ultracentrifugal analysis of proteins. E. G. Pickels. bibliog il diags Chem R 30:341-55 Je '42

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

See also

Atomic weights
Boiling points
Polymers

MOLECULES

Absorption spectrum of some polymethine dyes. K. F. Herzfeld. J Chem Phys 10: 508-20 Ag '42

Centers of van der Waals attraction. F. London. bibliog J Phys Chem 46:305-16 F '42

Chain structure of linear polyesters; trimethylene glycol series. C. S. Fuller, C. J. Frosch and N. R. Pape. bibliog pls Am Chem Soc J 64:154-60 Ja '42

Configuration of complex kojates formed with some transition elements as determined by magnetic susceptibility measurements. J. W. Wiley, G. N. Tyson, jr. and J. S. Steller. Am Chem Soc J 64:963-4 Ap '42

Determination of the bridge structure of dipyrrylmethanes; a new method for the estimation of active hydrogen. A. H. Corwin and R. C. Ellingson. bibliog diags Am Chem Soc J 64:2098-106 S '42

Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. A. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. R. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

Effect of molecular environment on the absorption spectra of organic compounds in solution; αβ-unsaturated ketones. L. K. Evans and A. E. Gillam. Chem Soc J p815-20 D '41

Electron diffraction investigation of the molecular structures of silicon tetrabromide, tribromosilane, and dibromodifluorosilane. R. Spitzer, W. J. Howell, jr. and V. Schomaker. bibliog Am Chem Soc J 64:62-7 Ja '42

Electronic method of measuring molecular lifetimes; applied to measure decay of fluorescence and to measure decay of light from a nitrogen discharge. R. D. Rawcliffe. il diags R Sci Instr 13:413-18 O '42

Electronic structure and stability of hydrogen halides and of complex ions XO_4. K. Fajans and N. Bauer. bibliog J Chem Phys 10:410-15 Jl '42

Energy levels and color of polymethine dyes. A. L. Sklar. bibliog J Chem Phys 10:521-31 Ag '42

Force constants and internuclear distance. G. Glockler and G. E. Evans. J Chem Phys 10:606 S '42

Fractionation of cellulose acetate. A. M. Sookne and others. bibliog Am Dyestuff Rep 31:417-20 Ag 31 '42; Same. J Research Nat Bur Stand 29:123-30 Ag '42

Gas analysis with the mass spectrometer. J. A. Hipple. il diags J Ap Phys 13:551-9 (bibliog p553, 559) S '42

Infra-red and Raman spectra of polyatomic molecules; diborane. F. Stitt. bibliog J Chem Phys 9:780-5 N '41

Interaction between a molecule and a metal surface. E. J. R. Prosen and R. G. Sachs. Phys R 61:65-73 Ja 1 '42

Isotope effect in the predissociation phenomena of the CH and CD molecules. L. Gerö and R. F. Schmid. bibliog Phys R 60:911-12 D 15 '41

Light absorption of geometrical isomerides and the structure of vitamin-*D*. H. P. Koch. bibliog Chem & Ind 61:273-5 Je 20 '42

Macromolecular disorder in linear polyamides; relation of structure to physical properties of copolyamides. W. O. Baker and C. S. Fuller. bibliog pls Am Chem Soc J 64:2399-407 O '42

Magnetism and molecular structure. P. W. Selwood. bibliog il diags J Chem Educ 19: 181-8 Ap '42

Measurements of number of molecules in matter; abstract. R. T. Birge. Science 96: sup8 Jl 17 '42

Molecular dissymmetry due to symmetrically placed hydrogen and deuterium; the attempted resolution of 4 : 4′-dibromo-2 : 3 : 5 : 6-tetradeuterobenzhydrylamine; a method for the determination of deuterium in organic compounds. G. R. Clemo and G. A. Swan. diag Chem Soc J p370-4 My '42

MOLECULES—*Continued*

Molecular spectra of astronomical interest. H. N. Russell. Sci Am 166:18-19 Ja '42

Molecular structures of the dimers of aluminum dimethyl chloride, aluminum dimethyl bromide, and aluminum trimethyl and of hexamethyldisilane. L. O. Brockway and N. R. Davidson. bibliog Am Chem Soc J 63:3287-97 D '41

Molecules wriggle in electric field; abstract. R. M. Fuoss. Pulp & Pa of Can 43:48 Ja '42

Monomolecular film demonstrations. A. L. Kuehner. J Chem Educ 19:27-8 Ja '42

Partition functions of molecules with internal torsion; single asymmetric top attached to rigid framework. D. Price. J Chem Phys 9:807-15 N '41; Correction. 10:80 Ja '42

Quantum mechanical investigation of the orientation of substituents in aromatic molecules. G. W. Wheland. bibliog Am Chem Soc J 64:900-8 Ap '42

Radial distribution function in liquids. J. G. Kirkwood and E. M. Boggs. bibliog J Chem Phys 10:394-402 Je '42

Relation between viscosity of solutions and physical properties of high polymers. R. Simha. bibliog J Ap Phys 13:147-53 Mr '42

Relation of dielectric properties to structure of crystalline polymers; linear polyamides. W. O. Baker and W. A. Yager. bibliog Am Chem Soc J 64:2171-7 S '42

Relation of dielectric properties to structure of crystalline polymers; polyesters. W. A. Yager and W. O. Baker. bibliog Am Chem Soc J 64:2164-71 S '42

Second virial coefficients and the forces between complex molecules. J. O. Hirschfelder, F. T. McClure and I. F. Weeks. bibliog J Chem Phys 10:201-11 Ap '42

Some properties of solutions of long-chain compounds. M. L. Huggins. bibliog J Phys Chem 46:151-8 Ja '42

Specific dispersion of pure hydrocarbons. R. E. Thorpe and R. G. Larsen. bibliog(72 references) Ind & Eng Chem 34:853-63 Jl '42

Statistical distribution laws for rate processes. B. Longtin. bibliog J Chem Phys 10:546-50 Ag '42

Statistical distribution laws for rate processes; non-uniform distributions. B. Longtin. J Chem Phys 10:551-6 Ag '42

Statistical mechanics of change of state. H. Snyder. Phys R 62:63-7 Jl 1 '42

Stickiness, tackiness, and spinnability; possible molecular interpretation. D. Josefowitz and H. Mark. bibliog diags India Rubber W 106:33-7 Ap '42

Structure and absorption spectra; normal conjugated dienes. R. B. Woodward. Am Chem Soc J 64:72-5 Ja '42

Structure of the bimolecular product formed by the action of acidic dehydrating agents on anhydracetonebenzil. C. F. H. Allen and J. W. Gates, jr. Am Chem Soc J 64:2123-7 S '42

Structures and physical properties of the hydrides of boron and of their derivatives. S. H. Bauer. diags Chem R 31:43-75 bibliog(71 references, p74-5) Ag '42

Synthetic elastomers; how molecules are manipulated to make new rubber-like materials. S. J. French. Sci Am 167:10-13 Jl '42

Theory of solutions of high polymers. M. L. Huggins. bibliog Am Chem Soc J 64:1712-19 Jl '42

Three dimensional polymers. P. J. Flory. bibliog Am Chem Soc J 63:3083-100 N '41

See also

Atoms
Binding energy
Chemical bonds
Crystallography
Isomerism
Molecular rearrangements
Polarization, Dielectric
Polymers
Polysaccharides
Stereochemistry

Models

Construction of complex molecular models with application to carbohydrates. R. S. Bear. bibliog il J Chem Educ 19:227-30 My '42

Separation of nuclear isomers; hydrogen molecule model. E. P. Cooper. Phys R 61:4-5 Ja 1 '42

Rotation

Energy levels and thermodynamic functions for molecules with internal rotation; rigid frame with attached tops. K. S. Pitzer and W. D. Gwinn. bibliog J Chem Phys 10:428-40 Jl '42

Equilibrium diagram of the system carbon tetrachloride-*t*-butyl chloride as revealed by dielectric constant measurements. W. P. Conner and C. P. Smyth. Am Chem Soc J 63:3424-8 D '41

Further resolution of two parallel bands of ammonia and the interaction between vibration and rotation. H. Sheng, E. F. Barker and D. M. Dennison. Phys R 60:786-94 D 1 '41

Heat capacity and vapor pressure hysteresis in liquid isopentane; isomers due to hindered rotation. J. G. Aston and S. C. Schumann. bibliog Am Chem Soc J 64:1034-8 My '42

Internal rotation in molecules with two or more methyl groups. K. S. Pitzer. il J Chem Phys 10:605-6 S '42

Nitromethane; the heat capacity of the gas, the vapor density, and the barrier to internal rotation. K. S. Pitzer and W. D. Gwinn. bibliog Am Chem Soc J 63:3313-16 D '41

Restricted rotation in aryl amines; preparation and resolution of N-succinyl-1-methylamino-2-methylnaphthalene and N-succinyl-1-methylamino-4-chloro-2-methylnaphthalene. R. Adams and A. A. Albert. Am Chem Soc J 64:1475-8 Je '42

Rotational relationships of alkyl glucosides. L. C. Kreider and E. Friesen. Am Chem Soc J 64:1482-3 Je '42

Vibration-rotation energies of planar ZXY_2 molecules. S. Silver and E. S. Ebers. bibliog J Chem Phys 10:559-74 S '42

Vibration-rotation energies of polyatomic molecules. H. H. Nielsen. Phys R 60:794-810 D 1 '41

Vibration-rotation spectrum of GeH_4. J. W. Straley, C. H. Tindal and H. H. Nielsen. Phys R 62:161-5 Ag 1 '42

Vibration-rotation spectrum of SiH_4. C. H. Tindal, J. W. Straley and H. H. Nielsen. bibliog Phys R 62:151-60 Ag 1 '42

Vibration

Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

Infra-red spectra of axially symmetric XY_3Z molecules. W. H. Shaffer. bibliog J Chem Phys 10:1-9 Ja '42

Near infra-red spectra of linear Y_2X_2 molecules. W. H. Shaffer and A. H. Nielsen. J Chem Phys 9:847-52 D '41

Systematics in the vibrational spectra of the halogen derivatives of methane. T. Wu. bibliog J Chem Phys 10:116-24 F '42

Valence and central forces in bent symmetrical XY_2 molecules. W. H. Shaffer and R. R. Newton. bibliog diags J Chem Phys 10:405-9 Jl '42

MOLLIER diagrams

Mollier diagrams for theoretical alcohol-air and octane-water-air mixtures. R. Wiebe, J. F. Shultz and J. C. Porter. bibliog il diags Ind & Eng Chem 34:575-80 My '42

Steam table drills; how to use the Mollier chart. P. Swain. Power 86:429 Je '42

MOLOTOV, Vīacheslav Mīkhaĭlovich, 1890-

Roosevelt, Molotov agree on second front. Comm & Fin Chr 155:2308 Je 18 '42

MOLYBDENITE

Occurrence and production of molybdenum. J. W. Vanderwilt. Iron Age 150:104, 107+ O 1 '42

MOLYBDENUM

Climax Molybdenum for war and peace. K. Brandon. Barron's 22:7-8 Je 22 '42

Climax Molybdenum's brighter outlook. K. Brandon. Barron's 21:20 D 8 '41

MOLYBDENUM—*Continued*

Electrochemistry of baths of fused aluminum halides; the deposition potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42

Ferro-alloy metals, 1941. F. Betz, jr. Eng & Min J 143:48 F '42

Molybdenum catalysts; factors affecting activity; abstract. G. Maslyanski and F. Shenderovich. Chem Age (Lond) 46:296 Je 13 '42

Molybdenum in enamels; adherence produced with soluble and insoluble molybdates. K. Kautz. Am Cer Soc J 25:160-3 Mr 15 '42

Molybdenum; supply increased. J. E. Wilson. Min Cong J 28:44-5 F '42

Molybdenum, the American alloy. C. M. Loeb, jr. Metal Prog 42:531-2 O '42

Occurrence and production of molybdenum. J. W. Vanderwilt. 78p bibliog(p64-78) pa $1.50 Colorado school of mines, Golden '42; Abstract. Iron Age 150:104, 107+ O 1 '42; Excerpts. Steel 111:86, 88+ N 9; 96, 126-9 N 16 '42

Records for moly. il Business Week p58 Ja 10 '42

Substitute for tungsten. Economist 142:301 F 28 '42

Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

V^3I relation for vaporizing molybdenum. F. T. Worrell. bibliog diag Phys R 61:520-4 Ap 1 '42

Analysis

Fluorescent light used in molybdenum assay. Eng & Min J 143:65 S '42

Molybdenum; methods of detection and analysis. J. W. Vanderwilt. Steel 111:86, 88+ N 9 '42

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

Shortcuts for determining sulphur and molybdenum in alloy steels. E. R. Vance. il Steel 111:56+ Ag 31 '42

MOLYBDENUM alloys

Nickel-molybdenum system. F. H. Ellinger. il Am Soc for Metals Trans 30:607-37; Discussion. 638 S '42

See also

Iron alloys—Molybdenum alloys

Molybdenum steel

MOLYBDENUM blue

Colorimetric method for phosphates; modification of A.O.A.C. molybdenum blue method. L. S. Stoloff. Ind & Eng Chem Anal ed 14:636-7 Ag 15 '42

Colorimetric microdetermination of arsenic. M. B. Jacobs and J. Nagler. bibliog diag Ind & Eng Chem Anal ed 14:442-4 My 15 '42

Molybdenum blue reaction; a spectrophotometric study. J. T. Woods and M. G. Mellon. bibliog(76 references) Ind & Eng Chem Anal ed 13:760-4 N 15 '41

MOLYBDENUM plating

Plating alloys. C. B. F. Young. Iron Age 149:55-7 F 12 '42

MOLYBDENUM steel

Amola steels (carbon-molybdenum). F. E. McCleary. charts Metal Prog 42:386-9 S '42

Carbon-molybdenum steels; properties, etc. Product Eng 13:100-1 F '42

Effect of carbide spheroidization upon the creep strength of carbon-molybdenum steel. S. H. Weaver. il Am Soc T M Proc 41:608-27; Discussion. 628 '41

Fabrication of carbon-molybdenum piping for high-temperature service. R. W. Emerson. bibliog il Am Soc T M Proc 41:579-604; Discussion. 605-7 '41

Fine tool finish increases tool life 2000 per cent. C. J. Wiberg and W. K. Heath. il diags Iron Age 150:33-7 Jl 23 '42; Abstract. Metals & Alloys 16:752+ O '42

Heat treating molybdenum high-speed steel. W. R. Breeler and W. H. Wills. il Steel 111:95-8 O 12 '42

Heat-treatment of molybdenum high-speed steels; recommendations of special committee of U.S. Office of production management. Mach 48:152-4 D '41; 127-8 Ja '42

Molybdenum high speed steels. J. P. Gill and R. S. Rose. Iron Age 148:33-5 S 25 '41; Same. Metal Prog 40:283-8 S '41; Abstract. Oil & Gas J 41:44 O 1 '42

Molybdenum high speed steels; abstract. H. J. Stagg. Metals & Alloys 15:308+ F '42

Molybdenum high speed steels and their heat treatment. L. C. Grimshaw and R. P. Kells. il Metal Prog 41:76-81 Ja '42

Properties and mode of rupture of a molybdenum and a molybdenum-vanadium steel judged from prolonged creep tests to fracture. H. J. Tapsell, C. A. Bristow and C. H. M. Jenkins. Inst Mech Eng J & Proc 146:Proc 208-22, pl 1-4 Mr '42

Qualitative test for molybdenum. Iron Age 150:37 Jl 23 '42

Spot test for moly steel. R. Townsend. Metal Prog 42:234 Ag '42

War and navy departments' molybdenum steel. Product Eng 13:582-3 O '42

MOLYBDENUM vanadium steel

Properties and mode of rupture of a molybdenum and a molybdenum-vanadium steel judged from prolonged creep tests to fracture. H. J. Tapsell, C. A. Bristow and C. H. M. Jenkins. Inst Mech Eng J & Proc 146:Proc 208-22, pl 1-4 Mr '42

MOLYBDIC acid

Spectrophotometric determination of phosphorus. T. D. Fontaine. Ind & Eng Chem Anal ed 14:77-8 Ja 15 '42

MOMENTS of inertia

Beams of variable moment of inertia; the computation of fixed end moments, sidesway moments, stiffnesses and carry-over factors. J. B. Wilbur. diags Boston Soc C E J 29: 264-85 O '42

Critical speeds; how to calculate equivalent speeds and inertias. C. R. Freberg and E. N. Kemler. diags Product Eng 13:439-42 Ag '42

How to determine WR^2. A. F. Lukens. diags Power Pl Eng 46:70-2 Ag '42

Tables of the moments of inertia and section moduli of ordinary angles, channels, and bulb angles with certain plate combinations. 210p $1.25 Nat. bur. of standards, Washington, D.C. '42

Virtual masses and moments of inertia of disks and cylinders in various liquids. Y. Yu. diag J Ap Phys 13:66-9 Ja '42

MONARCH machine tool company

Navy E and Ordnance bureau flags awarded. il Steel 109:40 N 17 '41

MONDRIAAN, Pieter Cornelis, 1872-

Twelve artists in U.S. exile. Fortune 24:103 D '41

MONEL metal

Creep rates of cold-drawn nickel-copper alloy (monel metal). J. A. Bennett and D. J. McAdam, jr. pl diags J Research Nat Bur Stand 28:417-37 Ap '42

Infra-red absorption cell for gases at high and low temperatures. L. G. Smith. il diag R Sci Instr 13:65-7 F '42

Keep your monel on the firing line. R. T. Barnes, jr. il diag Paper Ind 24:365-7 Jl '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

Properties of monel metal at low temperatures. Engineering 153:340 Ap 24 '42

Spinning of monel and nickel sheet. Engineering 153:430 My 29 '42

Study of the effect of core wire temper on the quality of welds in nickel, monel and inconel. F. G. Flocke and K. M. Spicer. il Welding J 21:sup129-32 Mr '42

Working of high-nickel alloys. diags Am Mach 86:885-904 Ag 20 '42

MONEY

Credit control; a study of the genesis of the qualitative approach to credit problems. H. J. Mellon. 134p bibliog(p130-4) pa $2 Am. council on public affairs, Washington, D.C. '41

Current economic delusions and their probable future effects. E. C. Harwood and D. G. Ferguson. 3d ed 124p $1 Am. inst. for economic research, Cambridge, Mass. '41

Monetary theory. G. N. Halm. 347p $3.50 Blakiston '42

Money and banking, 1940/42. 202p Columbia univ. press '42

Money, currency and banking. H. L. Reed. 522p bibliog(p509-16) $3.75 McGraw-Hill '42

Nature of money. W. A. Rhodes. il Tech R 44:75-6+ D '41

Our modern banking and monetary system. R. G. Thomas. 812p $5.35; school ed $4 Prentice-Hall '42

Suggested solutions to problems in Money and banking; revised edition. J. I. Bogen and others. 44p Prentice-Hall '42

See also

Banks and banking
Capital
Coins
Credit
Finance
Foreign exchange
Gold as money
Hoarding
Index numbers (economics)
Inflation (finance)
Investments
Paper money
Precious metals
Prices
Silver as money

Devaluation

Coming drive for devaluation; inflation and the government debt burden. W. E. Spahr. Trusts & Estates 73:489-91 N '41

Debt and devaluation. Inv Banking 12:35-8 Je '42

History

From wampum to Continental currency; early financing in the new American world. R. A. Foulke. il Dun's R 50:13-18+ F '42

International aspects

See also

Foreign exchange

Statistics

Recent changes in the demand for currency. Fed Res Bul 28:312-16 Ap '42

Argentina

Central bank adopts relief measures for small money crisis. For Comm W 7:14 Je 20 '42

Burma

Burmese currency problems. Economist 142:721 My 23 '42

China

Nanking dollar v. Chungking dollar. Economist 142:867-8 Je 20 '42

Cuba

Report to the Cuban government of the American technical mission to Cuba. Fed Res Bul 30:774-801 Ag '42

Denmark

Danish krone. Economist 142:718 My 23 '42

French Equatorial Africa

New fighting French currency established. For Comm W 8:19-20 S 12 '42

Germany

Fixed value loans in Germany; an experiment during the runaway inflation. K. Koranyi. Comm & Fin Chr 155:2034-5 My 28 '42

Great Britain

Defence of the pound. Economist 143:sup10 S 19 '42

Royal mint saves copper; coins struck during 1941. Economist 142:723 My 23 '42

Hawaiian Islands

New currency for Hawaii. Comm & Fin Chr 156:274 Jl 23 '42; Banking 35:12-13 Ag '42

United States currency; Hawaiian series. Fed Res Bul 28:762-4 Ag '42

War currency? Hawaii's use of a special issue to foil enemy. Business Week p101-2 O 17 '42

Hongkong, China

Hongkong dollar. Economist 141:538 N 1 '41

Hongkong dollar demonetised. Economist 143:243 Ag 22 '42

India

Indian bullion boom over. Economist 142:654 My 9 '42

India's sterling accumulation. Economist 143:393 S 26 '42

Mexico

U.S. & Mexico adopt currency controls. Comm & Fin Chr 156:648 Ag 20 '42

Rome (ancient)

Gold and silver coin standards in the Roman empire. L. C. West. 199p bibliog(p27-30) pa $1.50 Am. numismatic soc, New York '41

United States

Circulating media expanding. Survey of Cur Business 22:2 S '42

Continued rise in currency. Nat City Bank p103-4 S '42

Controls tightened on currency import. Comm & Fin Chr 156:1639 N 5 '42

From wampum to Continental currency; early financing in the new American world. R. A. Foulke. il Dun's R 50:13-18+ F '42

Kinds of money in circulation, monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:35 Ja '42 [cont monthly]

Money and banking. Published in National city bank

Money in circulation. Banking 34:10 Mr '42

Money mobilization, or just taxation? F. B. Kirkbride. Trusts & Estates 74:49-50 Ja '42

Paper currency, by denominations, and coin in circulation, monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:35 Ja '42 [cont monthly]

Recent changes in the demand for currency. Fed Res Bul 28:312-16 Ap '42

Treasury currency outstanding, monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:35 Ja '42 [cont monthly]

Who is the grafter, the man or the dollar? W. F. Dutton. 115p $1.50 Christopher pub. house, Boston '42

See also

Gold as money—United States
Silver as money—United States
United States—Mint

Uruguay

U.S. currency in Uruguay. Banking 35:67 Ag '42

MONEY, Counterfeit. See Counterfeits and counterfeiting

MONEY market

London money market, 1941. Economist 142:sup7 Mr 14 '42

See also

Federal reserve banks
Foreign exchange
Interest
Money

MONEY orders. See Postal service—Money orders

MONEY orders, Bank. See Bank money orders

MONEY raising campaigns

Cabots speak to the people; Boston shows the way to make charity flourish in wartime. il Fortune 25:88-91, 118+ My '42

Gadgets, tricks, and puzzles to make letters pull. il Am Business 12:17 My '42

How to raise money; fund raising programs for social and religious organizations. C. W. Gamble and W. W. Gamble. 265p bibliog(p259-60) $3 Association press, New York '42

Money raising. I. H. Gerlinger. 311p bibliog(p277-95) $3 Suttonhouse, Los Angeles '38

Use of class printing by churches means new business. il Inland Ptr 109:23-5 Ap '42

MONEY rates. See Interest

MONGOLIA, Outer

Japanese view of outer Mongolia. Y. Misshima and T. Goto. 66p pa 50c Inst. of Pacific relations, New York '42

MONGOLOID spot

Sacral spot in Bengal. E. W. E. Macfarlane. Science 95:431-2 Ap 24 '42

MONKEY flowers. See Mimulus longiflorus

MONOCHROMATORS

High intensity X-ray monochromator; rock salt crystals. P. Kirkpatrick. bibliog diag R Sci Instr 12:552-4 N '41

MONOMOLECULAR films. See Films

MONOPOLIES

Associated press denies monopoly charges in answer filed to government's suit. Comm & Fin Chr 156:1639 N 5 '42

Associated press sued as monopoly by U.S. Comm & Fin Chr 156:895 S 10 '42

Demurrers argued in gas pump suit. Nat Pet N 33:10 D 24 '41

Gasoline pump case dismissed by court. Nat Pet N 34:3-4 F 25 '42

Malaria medicine monopolies assailed by Representative Gearhart. Oil Paint & Drug Rep 142:3+ Ag 17 '42

Malaria medicines probe to be sought in Congress. Oil Paint & Drug Rep 142:7+ Ag 24 '42

Monopoly in retail food distribution. H. M. Foster. J Retailing 17:112-19 D '41

Patent-pooling attacks draw vigorous replies by accused companies. Steel 110:42-3 Ap 20 '42

Patents and antitrust law. L. I. Wood. 218p bibliog(p213-18) $3.50 Commerce clearing house '42

See also

Competition
Corporation law
Glass container industry
Government investigation—Monopoly investigation
Patents—Licensing
Restraint of trade
Trusts, Industrial

MONORAIL conveyors

Better handling equipment speeds bomb production. il Steel 111:74+ S 21 '42

Builds machine tools faster with modern mechanical materials handling aids; Warner & Swasey co. C. L. Peterson. il Steel 110:73-4+ F 9 '42

Installation of mechanized conveyor line raises plane of production. il Steel 110:88+ Ap 27 '42

Monorail handling system saves time and money in die shop; I. J. Frindt co. il plan Steel 110:90+ My 25 '42

Monorail handling system speeds sheet metal fabricating operations; Art metal construction co. il Steel 111:89 S 7 '42

New overhead conveyor system in Martin bomber plant. il Automotive & Aviation Ind 86:26-7+ My 15 '42

Planned materials handling improves foundry operation; Golden foundry co. S. F. Swain. il Steel 109:80+ D 15 '41

MONOSTEARIN. See Glyceryl monostearate

MONSANTO chemical company

Growth stocks and the investor. E. N. Chapman. Barron's 22:8 Ja 5 '42

Investment audit. H. J. Nelson. Barron's 21:20 N 24 '41

Monsanto Chemical sells preferred shares. Comm & Fin Chr 155:944 Mr 5 '42

Preferred stock offered; consolidated income account, 1939-1941. Comm & Fin Chr 155:1015 Mr 9 '42

Registers with SEC. Comm & Fin Chr 155:922 Mr 2 '42

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:127+ N 14 '42

What the chemical companies are doing. Barron's 22:23 S 21 '42

MONTANA

See also

Geology—Montana
Mines and mineral resources—Montana

Trade commission

Administration of the Montana Unfair practices act. G. W. Peak. bibliog J Business 15:140-59 Ap '42

MONTGOMERY, Alabama

See also Motor bus lines—Montgomery, Alabama

MONTGOMERY city lines, inc.

Montgomery city lines; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:540 N '41

MONTGOMERY Ward and company

Growth stocks and the investor. E. N. Chapman. Barron's 21:20 D 29 '41

Income account for calendar years, 1939-1942. Comm & Fin Chr 156:82 Jl 6 '42

Montgomery Ward's prospects. H. Lawrence. Barron's 22:20 Mr 30 '42

Steelman stymied; Montgomery Ward rebuff to Msgr Haas. Business Week p58 My 23 '42

MONTHLY labor review

Subject index to the Monthly labor review, volumes 1 to 11, July 1915 to December 1920. U S Bur Labor Statistics Bul 695: 1-176; pa 20c Supt. of doc. '41

MONTMORILLONITE

Heat-of-wetting values of unfired and fired clays. C. W. Parmelee and V. D. Fréchette. bibliog Am Cer Soc J 25:108-12 F 15 '42

MONTREAL, Quebec

Montreal, seaport and city. S. Leacock. 340p $3.50 Doubleday '42

Rapid transit

How Montreal won Transit Journal maintenance award for 1941. il diags Transit J 85:422-5 N '41

Wartime transportation in Montreal, Canada's largest city. Mass Transportation 38: 232-3 S '42

MONTREAL curb market

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

MONTREAL stock exchange

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

MONTREAL tramways company

New securities ready under scheme of arrangement. Comm & Fin Chr 155:1215 Mr 23 '42

MOON

See also

Eclipses, Lunar

MORALE

Ad managers assume leadership in worker morale programs; posters, house organs, booklets. il Ind Marketing 27:28-32 My '42

American struggle; we cannot longer defend freedom on a basis of if, and, and but. Fortune 25:34-5 Ja '42

American unity and our foreign-born citizens. H. B. Hoskins. Ann Am Acad 220:153-9 Mr '42

Analysis of industrial morale. E. D. Chapple. bibliog J Ind Hygiene 24:163-72 S '42

Are war production drives worth while? Factory survey. il Factory Management 100: 74-80 O '42

British plant posters stir workers; interview with E. Haynes. il Ptr Ink 201:42, 46 N 6 '42

Build morale and stimulate co-operation in railroad employees. H. W. Stowell. Ry Mech Eng 116:144-6 Ap '42

Building morale. J. B. Nash. 154p $1 A. S. Barnes and co, New York '42

Case studies in building the will to win. il Factory Management 100:64-71+ Je; 68-73 Jl '42

Civilian morale agency. E. Angell. Ann Am Acad 220:160-7 Mr '42

Civilian morale; second yearbook of the Society for the psychological study of social issues. G. Watson, ed. 463p bibliog(p437-47) $3.50 Houghton '42

MORALE—*Continued*

Fears of workers; economic and political leaders urged to pledge efforts to avert postwar unemployment. R. R. Blumer. Steel 111:39 S 28 '42

Four freedoms and sixty seconds. C. B. Brown. Ptr Ink 201:52 O 9 '42

German psychological warfare; survey and bibliography. L. Farago and L. F. Gittler, eds. 2d ed 133p pa $2.50 Committee for national morale, New York '41

Government agencies and civilian morale. P. S. Broughton. Ann Am Acad 220:168-77 Mr '42

How RCA builds worker morale. il Factory Management 100:[1-16] pt 2 Mr '42

How to plan an employee war production program; G.E. program. W. H. Green. il Ptr Ink 200:17-19+ S 11 '42

How's the morale? measures which prevent physical and emotional fatigue bring returns in health, safety and increased energy. C. T. Fish. il Nat Safety N 45:25+ Je '42

Industrial morale. L. G. Giberson. Ind Med 11:116-18 Mr '42; Abstract. J Ind Hygiene 24:sup129-30 Je '42

Measuring wartime attitudes and morale. H. B. Bergen. Personnel J 21:2-9 My '42

Morale-building activities for war workers. E. L. Warner, jr. il Automotive & Aviation Ind 87:30-3+ Ag 1 '42

Morale-building posters. il Aero Digest 40: 86, 89 Ap '42

Morale work; industry gets help from army and navy. il Business Week p18-19 D 13 '41

Protection against let-downs. D. G. Woolf. il Textile World 92:92-5 Jl '42

Psychiatric aspects of civilian morale. 62p pa 50c Family welfare assn. of Am, New York '42

RCA's amazingly successful "beat the promise" campaign ups production. il Steel 110:34-7, 80, 94+ My 25 '42

RCA's beat the promise campaign. il Ind Marketing 27:28-9+ Ap '42

Safeguarding civilian and army morale; community facilities needed in defense areas. P. V. McNutt. Arch Rec 90:42-3 D '41

Say the truth—and don't be afraid of death. Fortune 25:108 Ap '42

Shipyard morale. R. J. Scanlon. Personnel J 21:23-33 My '42

So you've won an Army-Navy E? then let's plan the ceremony! R. W. Graham. il Sales Management 51:22-4 O 1 '42

Symington's war production drive; labor-management committee. C. J. Symington. il Ry Mech Eng 116:336-8 Ag '42

United for victory. S. L. A. Marshall. Special Lib 33:237-40 S '42

Using foremen conferences to build morale. D. Purves. Factory Management 100:99 Jl '42

War workers vote on factory posters; pick these as best; P.I. survey. il Ptr Ink 201: 18-20 O 23 '42

Wartime demands upon management and labor in the aircraft industry. P. R. Irwin. Ann Am Acad 224:104-9 N '42

When workers get the will to win; practical morale-building methods. il Factory Management 100:42-4+ Ap; 58-67+ My '42

Worker morale as a personnel job. C. S. Slocombe. Personnel J 20:266-70 F '42

Your morale and how to build it. A. Pardue. 132p $1.50 Scribner '42

MORATORIUM

Moratorium on U.S.-held debts of Philippine companies. Comm & Fin Chr 156:709 Ag 27 '42

MORDANTS. See Dyes and dyeing—Mordants

MOREHOUSE formation

Late paleozoic age of Morehouse formation of northeastern Louisiana. R. W. Imlay and J. S. Williams. Am Assn Pet Geologists Bul 26:1672-3 O '42

MORGAN, Sir Gilbert Thomas, 1870-1940

Sketch. W. Wardlaw. por(pl) Chem Soc J p689-97 O '41

MORGAN, J. P., and company

Block of J. P. Morgan co. capital stock offered to public at $206 per share. Comm & Fin Chr 155:545+ F 5 '42

Morgan asks Federal Reserve membership. Comm & Fin Chr 155:1130 Mr 19 '42

Stock in Morgan. Business Week p82 F 7 '42

MOROCCO

Economic conditions

French Morocco's business today. il For Comm W 8:3+ S 26 '42

MORPHOLINE

Densities of morpholine-water solutions. H. M. Trimble and A. F. Buse. Am Chem Soc J 63:3236 N '41

4-Morpholinealkyl esters and amides possessing antispasmodic activity. L. C. Cheney and W. G. Bywater. bibliog Am Chem Soc J 64:970-3 Ap '42

Some reactions of morpholine. A. R. Ingram and W. F. Luder. Am Chem Soc J 64:2506-7 O '42

Specific heats of morpholine and its aqueous solutions. H. M. Trimble and others. Am Chem Soc J 64:679-81 Mr '42

MORRELL, John, and company

Annual report. Comm & Fin Chr 155:363 Ja 24 '42

MORRIS, Philip, and company

Another look at your company. Mag of Wall St 70:232 Je 13 '42

Files reply to complaint of FTC. Comm & Fin Chr 156:1333 O 12 '42

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 Ja 19 '42

Listing of preferred stock. Comm & Fin Chr 155:2011 My 25 '42

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:70 O 31 '42

Sells new issues of preferred stock and debentures. Comm & Fin Chr 155:2098 Je 1 '42

To sell shares of new cumulative preferred. Comm & Fin Chr 155:1844 My 11 '42

MORRIS plan banks

How Morris plan bank is adjusting to new conditions. R. H. Stout. Bankers M 145: 79-80 Jl '42

Training financed; Morris Plan will supply funds for instruction, board, and room at Miami aircraft school. Business Week p70 Mr 28 '42

MORRISON, Abram Cressy, 1864-

American contemporaries. A. W. Hixson. por Chem & Eng N 20:800-2 Je 25 '42

MORROW, James Bain, 1886-

Sketch. por Explosives Eng 20:4-5 Ja '42

MORTALITY

Degrees of mortality of mankind. E. Halley. 21p pa $1.25 Johns Hopkins press, Baltimore '42

Higher death rates may follow business upturn. Nat Safety N 45:96 Ja '42

See also

Insurance, Life

Statistics

British companies may do medico-actuarial study like America. W. Penman. East Underw 43:1+ Jl 31 '42

Business boom may bring mortality rise; chart showing death rates in relation to business activity. East Underw 42:9 D 5 '41

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

Death rate in England; abstract. P. Stocks. Science 96:sup8 Jl 24 '42

Deaths during week in certain large cities of the United States. Published in weekly numbers of Public health reports

Health of industrial workers, 1941. Monthly Labor R 54:991-3 Ap '42

Morbidity and mortality during 1941 and recent preceding years. Pub Health Rep 57: 819-33 My 29 '42

Mortality summary for large cities in the United States, 1941. Pub Health Rep 57: 204 F 6 '42

MORTALITY—Statistics—*Continued*

New health record established in 1941, Metropolitan Life report. Nat Underw (Life ed) 46:7 Ap 10 '42

Notifiable diseases in the United States, 1940; morbidity and mortality summaries for certain important communicable diseases. Pub Health Rep 57:233-9 F 13 '42

Principal causes of death in 1941 and death claims paid by life companies; charts. Nat Underw (Life ed) 46:31 pt 2 My 15 '42

Provisional mortality rates for the first 9 months of 1941. Pub Health Rep 57:196-203 F 6 '42; Correction. 57:271-2 F 20 '42

Provisional mortality rates for the first quarter of 1942. Pub Health Rep 57:1060-5 Jl 17 '42

Provisional mortality rates for the first half of 1942. Pub Health Rep 57:1542-7 O 9 '42

Scourge of cancer; need for more research indicated. G. Hirschfeld. maps Spectator (Life ed) 149:40-50 Jl '42

Tuberculosis control. G. Hirschfeld. il map Spectator (Life ed) 149:70-8 N '42

See also

Homicide

Infant mortality—Statistics

Suicide

Typhoid fever—Statistics

MORTAR

Birmingham likes lime putty; new plant of Standard building material co. il Rock Prod 44:65-6 D '41

Ready-mixed concrete and mortar plant serves good demand in Atlanta. il Concrete 50:14+ Je '42

Refractory materials, representative makers of refractories and high temperature mortars. Chem & Met Eng 49:99-100 O '42

Reinforced tile grain storage bins; Speed tile with waterproofed mortar makes moisture-proof bins. E. W. Manthey. il Brick & Clay Rec 101:21-2 S '42

Strength of cement-lime mortars and concretes. W. F. Cassie. Engineering 152:301-3 O 17 '41

Wood piles with mortar coating save time and critical materials. il Eng N 129:624-6 N 5 '42

Specifications

Specification for mortar for concrete masonry. Concrete 50:17-18 Ag '42

Testing

Control testing for consistency of refractory mortars. E. C. Petrie and D. W. Kocher. il diags Am Cer Soc J 25:459-63 N 1 '42

Effect of fine aggregate on the durability of mortars. C. A. Hughes and K. A. Anderson. Am Soc T M Proc 41:987-1002 '41

Long-time volume changes in portland cement bars. A. H. White and H. S. Kemp. Concrete (mill sec) 50:232-3, 249-51 S-O '42 (to be cont)

Measuring plasticity and workability of cement mortars. P. S. Roller. Concrete 50:35-6 N '42

Properties of limes and lime mortars. H. R. Staley. Am Soc T M Proc 41:975-85; Discussion. 986 '41

Some properties of the dry air-setting type of refractory bonding mortar. R. A. Heindl and W. L. Pendergast. pl J Research Nat Bur Stand 28:401-16 Ap '42

Testing cold-set refractory mortars; abstract. S. M. Phelps and T. L. Hurst. Brick & Clay Rec 100:40+ My '42

MORTARS (ordnance)

Cast steel mortar shell. E. Bremer. il Steel 110:62-4 Ja 12 '42

Resistance welding trench mortar fin assemblies. J. H. Cooper. il diags Welding J 21:sup501-6 O '42

MORTGAGE banks

National use for savings; mortgage banks and other economic services of financial institutions. L. H. Pink. Trusts & Estates 74:557-8 Je '42

See also

Home owners' loan corporation

MORTGAGE redemption policies. See Insurance, Life—Mortgage redemption policies

MORTGAGES

California trust, deed and mortgage manual. M. E. Woodward. 1941 ed 72p $2 Parker ptg. co, 545 Sansome st, San Francisco '41

Change in Title VI. Arch Rec 91:88 Mr '42

Constructive change in bank mortgage policy. W. R. White. Comm & Fin Chr 156:1635 N 5 '42

Emergency housing and post-war results; defense housing mortgage insurance. A. H. Ferguson. Trusts & Estates 74:37-8 Ja '42

Favors giving N.Y. savings banks power to lend on FHA mortgages anywhere in U.S. H. Bruere. Comm & Fin Chr 156:1648 N 5 '42

FHLBB says mortgage structure is safe. Comm & Fin Chr 154:1659 D 25 '41

FHA boost. Arch Forum 76:sup4 My '42

FHA emergency liberalizations under Title VI. R. R. Dickey. Arch Rec 91:20 My '42

FHA homes in metropolitan districts, characteristics of mortgages, homes, borrowers under FHA plan, 1934-40. 238p U.S. Federal housing administration, Washington; pa 50c Supt. of doc. '42

FHA insurance for war housing projects over $350 million. Comm & Fin Chr 156:1351 O 15 '42

FHA-insured mortgage activity in 1941 at peak. Comm & Fin Chr 155:1161 Mr 19 '42

Financial institutions active in FHA mortgages. Comm & Fin Chr 155:1263 Mr 26 '42

Good house upkeeping. M. L. Colean. Banking 34:32+ D '41

HOLC rate of liquidation at new high. Survey of Cur Business 22:2 S '42

Housing a nation at war. M. L. Colean. il Banking 34:30-1+ F '42

Life companies in war damage plea; most mortgage borrowers cooperative. Nat Underw (Life ed) 46:4 Jl 24 '42

Life companies should have war damage cover. J. M. Bryan. Nat Underw 46:3+ O 8 '42; Same. Nat Underw (Life ed) 46:3+ O 9 '42

Liquidity in common trust funds; mortgages mean segregations. A. W. Whittlesey. Trusts & Estates 75:167-8+ Ag '42

Mortgage debtor relief. H. L. Reeve. Banking 35:112 S '42

Mortgage lending still active; savings and loan associations' new business holding close to 1940 level. L. Tomlinson. Barron's 22:9 S 14 '42

Mortgage loans in the emergency; clinic sponsored by Savings division, American bankers association. Banking 34:84-6 D '41

Mortgages for common trust funds. M. E. Lambing. Trusts & Estates 75:65-6 Jl '42

New criteria in selecting mortgages. I. Bussing. Trusts & Estates 75:257-8, 260 S '42

New mortgage trends. G. S. Van Schaick. East Underw 43:10 My 22 '42

New opportunities for FHA mortgage financing. Bankers M 144:402-5 My '42

New real estate loans. H. R. Templeton. Banking 35:22 O '42

New savings accounts have stimulated mortgage loans. S. C. Frazier. Comm & Fin Chr 155:1453 Ap 9 '42

NY savings banks made many more mortgage loans in 1941. Comm & Fin Chr 155:565 F 5 '42

Now time to overhaul your mortgage portfolio. I. Bussing. Bankers M 145:207-10 S '42

Outlook for mortgages and real estate. M. Nadler. Bankers M 144:71-5 Ja '42

Problems in mortgage lending. G. Nash. Banking 35:106-10 S '42; Excerpts. Trusts & Estates 75:261-3 S '42

Real estate credit analysis. C. L. Goss. Banking 35:111 S '42

Real estate mortgage investments up in '41. Comm & Fin Chr 155:688 F 12 '42

Sees mortgages quoted in fractions like government bonds. L. E. Mahan. Comm & Fin Chr 155:1035 Mr 12 '42

Tells mortgage bankers what is expected. C. L. Benner. Nat Underw (Life ed) 46:33 O 9 '42

MORTGAGES—*Continued*

Urges all home mortgages put on amortized basis. A. H. Ferguson. Comm & Fin Chr 156:273 Jl 23 '42

When are mortgages investments? H. O. Frey. Trusts & Estates 75:73-4 Jl '42

See also

Bonds, Real estate
Chattel mortgages
Insurance, Fire—Mortgagee interest
Land titles

Foreclosure

Method of analyzing the elements of foreclosure risk. M. Kaplan. Am Statis Assn J 37:247-55 Je '42

Law

Calls for ending NY mortgage moratorium. M. S. Short. Comm & Fin Chr 155:581 F 5 '42

Law of mortgages of land; registration of deeds, land titles system, limitation of actions, conflict of laws. J. D. Falconbridge. 3d ed 890p $12.75 Canada law book co, Toronto '42

MORTGAGES, Farm

Commerce chamber report on farm mortgage legislation. Comm & Fin Chr 156:286 Jl 23 '42

Farm aid; how repercussions from Wall Street crash were felt in every farm home. G. Hirschfeld. Spectator (Life ed) 149:48-9 S '42

FCA on farm land values; bank co-operation asked to prevent speculative boom. H. D. Ralph. Burroughs Clearing House 26:18 N '41

Farmers paying off mortgages. Comm & Fin Chr 155:1872 My 14 '42

House extends 3½% farm mortgage interest rate. Comm & Fin Chr 155:2219 Je 11 '42

Pending bill would result in eliminating private interests from farm mortgage field. Comm & Fin Chr 156:185 Jl 16 '42

Principles in connection with loan policy. A. G. Black. Bankers M 143:427-8 N '41

See also

Agricultural credit
Bonds, Federal farm mortgage

MORTUARY chapels

Storage refrigeration provides air conditioning for mortuaries. il Refrig Eng 42:404+ D '41

MOSASAURIA

California mosasaurs. C. L. Camp. 67p bibliog(p49-51) pa $1.50 Univ. of California press, Berkeley '42

MOSQUITOES

Mosquitoes, malaria and the war in the Pacific. E. P. Mumford. map Science 96:191-4 Ag 28 '42

Reconnaissance of anopheline larval habitats and characteristic desmids of the Okefenokee swamp, Georgia. W. C. Frohne. bibliog Pub Health Rep 57:1209-17 Ag 14 '42

Relation of plants to malaria control, with special reference to impounded waters. W. T. Penfound. Pub Health Rep 57:261-8 F 20 '42

Technique for staining, dissecting, and mounting the male terminalia of mosquitoes. W. H. W. Komp. bibliog pl Pub Health Rep 57:1327-33 S 4 '42

Extermination

Drainage for mosquito control. il Pub Works 72:21-2 N '41

Mosquito control as a national defense measure. Pub Works 73:18 S '42

Proceedings, 28th annual meeting, New Jersey mosquito extermination association, Atlantic City, March 19-21, 1941. 211p pa $1.25 The Association, Thomas J. Headlee, sec, New Brunswick, N.J. '41

Symposia on equine encephalomyelitis and mosquito control; California mosquito control association. Science 94:534-5 D 5 '41

U.S. leadership in health protection endangered by neglect of yellow fever mosquito eradication; abstract. T. Parran. Science 96:sup10 N 6 '42

MOTH damage insurance. See Insurance, Moth damage

MOTHERS' pensions

See also

Family allowances

MOTHPROOFING

See also

Insurance, Moth damage

MOTHPROOFING preparations

Chemical repellents. F. J. Van Antwerpen. Ind & Eng Chem 33:1516 D '41

Consumer angle; a buyer's view of insecticides, disinfectants, waxes, cleaners, moth products, etc. E. Freedman. Soap & San Chem 18:107 Ja '42

Detergents from petroleum; Nacconol NR as illustration. L. Flett. il Chem & Eng N 20:844-8 Jl 10 '42

Moth protection of wool goods. Rayon 23:306 My '42

Testing

Mothproofing tests. F. W. Fletcher and E. E. Kenaga. Soap & San Chem 18:95-9 Ag '42

MOTHS

Beetles and moths will attack all protein fibers. il Rayon 23:549 S '42

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. il Ind & Eng Chem 34:1401-2 N '42

Cooling, heating used to protect flying suits; storage of wool-and-fur suits. Refrig Eng 44:321 N '42

Preventing moth damage in wool fabrics. Consumers' Research Bul 9:24 My '42

MOTION

See also

Mechanical movements
Mechanics, Applied
Velocity

MOTION pictures. See Moving pictures

MOTION study

Applying motion study principles; RCA manufacturing company. il Factory Management 100:128-9+ Ag '42

Applying time-motion study in the office; abstract. A. W. Moise. Management R 30:437-9 D '41

Case studies in work simplification. R. M. Barnes. il Factory Management 100:84-6 Jl '42

Cost accountant and time and motion studies. A. E. Werolin. N A C A Bul 23:1217-24 My 15 '42

How industry and colleges train methods men; two case studies. il diags plans Factory Management 99:65-72 D '41

Motion and time study. G. W. Chane. 88p $1.40 Harper '42

Motion and time study applications. R. M. Barnes. 188p $1.75 Wiley '42

Motion and time study in electroplating. P. J. Lopresti. flow charts Metal Finishing 40:196-9 Ap '42

Motion study goes human; workers cooperate. A. Ramond. il Sci Am 167:55-7 Ag '42

Motion study; it works in the core room, too; right- and left-hand charts. W. S. Hansen. diag Factory Management 100:91-2 S '42

New assembly layout, 20 percent more output. W. J. Tillman. il Factory Management 100:88-9+ Je '42

65 billion man-hours; only if industry substantially increases efficiency, can our labor supply fulfill our war program. A. H. Mogensen. il Fortune 25:76-7+ Mr '42

Which pedal is best? University of Iowa study. R. M. Barnes, H. Hardaway and O. Podolsky. diags Factory Management 100:98-9 Ja '42

Work simplification, essential to defense; training employees by use of moving pictures. A. H. Mogensen. Soc Motion Picture Eng J 38:295-9 Mr '42

Work simplification in the factory office. L. K. Urquhart. il Factory Management 100:100-2 N '42

MOTION study—*Continued*

Work simplification taught to employees; Walter Kidde & co. supplements work of suggestion box program. il Ptr Ink 200:20-1 Ag 7 '42

See also
Time study

MOTOR boats

Arc welded light boats. il Iron Age 149:40 Ja 29 '42

Diesel towboat "Tri-State." il Marine Eng 47:128-30 Jl '42

Little boats; resin-bonded plywood decreases weight, increases speed of patrol torpedo and landing boats. il Mod Plastics 19:35-7+ Mr '42

Revere, all-metal welded experimental cruiser. il Marine Eng 46:130 D '41

Safer than the highway; Diesel launches provide transportation for employees of Freeport sulphur co. A. H. Schroder. il Nat Safety N 44:18-19+ D '41

Yacht; ultra-modern all-metal cruiser makes trial runs. il Sci Am 166:79 F '42

See also
Motor ships
Sea sleds

Performance

Kort nozzles score in unusual test; performance of U.S. Engineer tugs Escort, Convoy, Pilot and Scusset. il Marine Eng 47:87-9 F '42

MOTOR bus associations

Index of bus associations, United States and Canada. Bus Transportation 21:65-6 Ja '42

MOTOR bus brakes. See Brakes, Motor bus

MOTOR bus drivers

Wages, hours, and working conditions of union street-railway employees, June 1, 1941. K. B. Mohn. Monthly Labor R 54:463-86 F '42

Training

Training and education of transit employes; university courses proposed; Capital transit company in leading rôle. il Mass Transportation 37:329-31 N '41

MOTOR bus engines

Erren combustion cycle; road tests on omnibus. il(p299) diags Automobile Eng 32:300-1 Ag '42

Guy bus chassis. il diags Automobile Eng 32:383-5 O '42

Detonation

Time to re-tune; premature destruction of engine parts caused by detonation. il diags Bus Transportation 21:254-7 Je '42

Efficiency

Automotive engines of high output; abstract. P. E. Biggar. S A E J 50:251-2 Je '42; Same. Automobile Eng 32:365-6 S '42

Commercial vehicles and lower-octane fuels; from the engine manufacturer's viewpoint. R. L. Weider. S A E J 50:128-31 Ap '42

Exhaust

Gasoline engine exhaust odors; abstract. J. J. Mikita, H. Levin and H. R. Kichline. Oil & Gas J 41:39 O 29 '42

Influence on atmospheric pollution of the exhausts from Diesel automotive vehicles and locomotives. R. J. Bender. Diesel Power 20:646-9 Ag '42

Fuel

Anthracite fuel for buses. Economist 142:266 F 21 '42

Buses running on producer gas. Gas J (Lond) 237:430 Mr 25 '42

Commercial vehicles and lower-octane fuels; symposium. W. H. Hubner and others. S A E J 50:125-36; Discussion. 137-8 Ap '42

Creosote oil as a fuel in compression ignition engines. R. J. Bramhall. Gas J (Lond) 236:390+ D 10 '41

Don't tinker with the octane number; bus industry would be in serious difficulties if octane number of gasoline were to be lowered. Bus Transportation 21:74-5 F '42

Gas and oil deliveries checked automatically; printing registers on fuel pumps; Boston elevated railway. il Transit J 85:429-31 N '41

Keeping Diesel oil and gasoline separate; methods of various companies. Transit J 86:181 My '42

Lower-octane gasoline; effect on design, operation, maintenance. S A E J 50:sup29-31 F '42; Same. Nat Pet N 34:R78-80 Mr 4 '42

Practical application of gas producers to road transport; abstracts. S. G. Ward and W. J. Morison. diag Engineer 173:386-7, 405-7 My 8-15 '42; Engineering 153:418-20, 438-40 My 22-29 '42; Gas J (Lond) 238:289, 329, 421+ My 20-27, Jl 10 '42

Save that gas; companies help fuel conservation. Bus Transportation 21:92-3 F '42

Stop octane sabotage; fuel conservation. il Bus Transportation 20:570-2 D '41

Lubrication

Gas and oil deliveries checked automatically; printing registers on fuel pumps; Boston elevated railway. il Transit J 85:429-31 N '41

Improved bus engine oil seal. D. Bell, jr. diags Transit J 86:32 Ja '42

Is oil reclaiming practical? F. R. Speed. Bus Transportation 21:258-9 Je '42

Repair

Norfolk has its own production rebuilding plan; reduces engine overhaul time. J. W. Cole. il Bus Transportation 21:250-1 Je '42

Resleeving engine cylinders; practices of various companies. Transit J 85:435-6 N '41

Specifications

American gasoline engines; tabulation. Automotive & Aviation Ind 86:92-101 Mr 15 '42

Engine tune up specifications, 1942; tabulations. Bus Transportation 21:284-7 Je '42

1942 motor bus engine specifications; tabulation. Bus Transportation 21:52-3 Ja '42

Superchargers

Supercharging; a consideration of commercial-vehicle application. P. E. Biggar. il Automobile Eng 32:321-4 Ag '42

MOTOR bus industry and trade

WPB allows completion of buses. Transit J 86:293 Ag '42

Statistics

7,961 buses built in '41. E. F. Theisinger. Bus Transportation 21:18-21 Ja '42

MOTOR bus lines

Let's get this straight; just how important is the intercity bus? E. F. Theisinger and B. Welbourne. il Bus Transportation 21:160-2 Ap '42

See also
Railroads—Motor vehicle auxiliaries
Rapid transit
Trolley buses

Accidents

Exposed fuel oil tank caused Christmas day holocaust in St Louis; insurance carried. Weekly Underw 146:87 Ja 3 '42

Accounting

Unredeemed ticket credits; practices of various companies. Transit J 86:145-6 Ap '42

See also American transit accountants association

Advertising

Intercity bus advertising. B. Welbourne. Bus Transportation 21:82 F '42

It's time to muse with George Hogan; Public service coordinated transport of New Jersey; weekly radio program which features poetry. Transit J 86:166-7 My '42

No time to keep mum! il Bus Transportation 21:124-5 Mr '42

ODT is advertising theme of International railway company. Bus Transportation 21:270-1 Je '42

Portable displays; Gray coach lines. H. S. Cameron. il Bus Transportation 20:549 N '41

MOTOR bus lines—Advertising—*Continued*

Posters build non-rush revenue; special events, trips to points of interest, etc. given publicity by New York City transit system. E. C. Giddings. il Transit J 85:418-20 N '41

Wartime advertising. il Bus Transportation 21:472-5 O '42

War time themes for transit ads. il Transit J 86:100-3 Mr '42

Why advertise, now? il Bus Transportation 21:122-3 Mr '42

Automobile competition

Huge loads are certain during the war years. C. Gordon. Transit J 86:46-9 F '42

Baggage

Blitzing baggage boners! Greyhound campaign to reduce baggage checking errors. il Bus Transportation 21:224-5 My '42

Tag that bag. Bus Transportation 21:269-70 Je '42

Claims

See also American transit claims association

Costs

Bus Transportation maintenance awards; 1941 winners; with cost data. il Bus Transportation 20:525-43 N '41

Expenses rise sharply; big expenditures to provide more service. Transit J 86:14-17 Ja '42

What about metal spray! rebuilding motor bus parts; with cost data. E. F. Theisinger. il Bus Transportation 21:266-8 Je '42

Emergency problems

Ready for anything; Jacksonville's motor transit company motor reserve battalion. il Transit J 86:239 Jl '42

Employees

Fancy wages or steady job; counteracting high wage inducement of war production plants; Los Angeles railway. H. Jordan. Bus Transportation 21:350-1 Ag '42; Discussion. 21:405-7 S '42

Filling men's shoes; in wartime England women play important part in transportation. il Bus Transportation 21:170-1 Ap '42

In capable hands; women are winning a larger place on the bus labor front. il Bus Transportation 21:471 O '42

Manpower for transit operation; abstract. M. A. Kraft. Mass Transportation 38:298-9 O '42

Penn-Greyhound trains women for information service. il Bus Transportation 21:222-3 My '42

Transit manpower problem. W. L. Butler; O. S. Beyer; M. A. Kraft. Transit J 86:375-9 O '42

Varsity '42; schools for garage and shop men; Pennsylvania and Richmond Greyhound lines. R. E. Cochran. il Bus Transportation 21:263-5 Je '42

Who owns the patent? inventions of bus company employees. L. T. Parker. Bus Transportation 21:217-19 My '42

See also

Motor bus drivers

Equipment and supplies

Exhibit on paper; equipment, accessories and shop devices. il Mass Transportation 38:241-52 S '42

Exhibits of transit equipment; pictorial review. Transit J 86:326-52 S '42

Getting equipment for transit properties. E. S. Pardoe. il Transit J 86:54-5 F '42

New equipment, accessories and shop devices. Published in monthly numbers of Mass transportation

New equipment parade. Published in monthly numbers of Transit journal

Production requirements plan, what it is, how to come in under it. Bus Transportation 21:288-9 Je '42

Reclamation of ball and roller bearings; practices of various companies. Transit J 86:109-10 Mr '42

Transit's equipment outlook. E. S. Pardoe. il Transit J 86:309-11 S '42

What's new. Published in monthly numbers of Bus transportation

See also

Motor buses

Express service

Package express shipments. Bus Transportation 21:364-5 Ag '42

Extensions

We want service, too! extending lines to new residential developments. il Bus Transportation 20:556-7 N '41

Fare collection

Rider distribution and counting; combination of Perey Passimeter and fare collection equipment. il Transit J 86:147 Ap '42

Fare refunding

Fare refunds; practices of various companies. Transit J 86:218-19 Je '42

Ticket refunds; Penn-Ohio coach lines has devised two forms. il Bus Transportation 21:178 Ap '42

Finance

Bus revenues show marked increase, first nine months 1941-1940. C. W. Stocks. Bus Transportation 20:588-91 D '41

Bus traffic sets new high; first quarter, 1942. C. W. Stocks. Bus Transportation 21:272-5 Je '42

Further transit returns show gains for 1941. Transit J 86:278-9 Ag '42

Higher gross, taxes and net for transit in 1941. M. Buck. Transit J 86:171-3 My '42

Investment audit of Greyhound corp. H. J. Nelson. Barron's 22:20 Ja 5 '42

1941 revenues reach new high. C. W. Stocks. Bus Transportation 21:140-3 Mr '42

Outlook for buses and trolleys improved. L. Edwards. il Barron's 22:9 F 16 '42

Revenue shows sharp upswing. Transit J 86:12-13 Ja '42

What the industry spends. Bus Transportation 21:31 Ja '42

Garages

From ex car house to extra fine bus garage; St Louis public service co. il Bus Transportation 21:320-2 Jl '42

Line production service; service and storage yard of Los Angeles motor coach company. il plan Bus Transportation 20:586-7 D '41

Pit lighting; practices of various companies. Transit J 86:288-90 Ag '42

You'd never recognize it, but the Easton Avenue garage of the St Louis public service company was converted from a car station. il Transit J 86:240-1 Jl '42

Information service

Packed with ideas is this folder; Omaha union bus depot travel bureau. M. Heitman. Bus Transportation 21:83 F '42

Penn-Greyhound trains women for information service. il Bus Transportation 21:222-3 My '42

Laws and regulations

Court holds intrastate commerce is subject to laws of the state. East Underw 43:34 My 8 '42

Eastman explains scope of Order 10; bans bus service for purposes that relate primarily to entertainment. Ry Age 112:1119 Je 6 '42

Information please; question and answer discussion of ODT order no. 11 and its wartime regulations for intercity buses. B. Wahle. Bus Transportation 21:395-7 S '42

Long haul bus companies win in court; Police Commissioner without power to rule long haul buses off streets of Manhattan. Bus Transportation 21:220 My '42

ODT orders bus operators to obtain "certificates of war necessity" for all buses. map Bus Transportation 21:480-1 O '42

ODT tightens hold on motor vehicles. Ry Age 113:417-18 S 12 '42

MOTOR bus lines—Laws and regulations—*Cont.*

Operators go to work on ODT's plan for intercity carriers; order no. 11. Bus Transportation 21:310-12 Jl '42

Pre-war state vehicle regulations; are they too stringent for present-day bus operations? Bus Transportation 21:79 F '42

Sorry, Sir, you can't ride this bus! when can passengers be ejected without legal liability? L. T. Parker. il Bus Transportation 21:356-7 Ag '42

Susquehanna's commuter bus service is interterminal. Ry Age 113:354-5 Ag 29 '42

Wartime transit control; abstract. G. S. Gray. Bus Transportation 21:313-15 Jl '42

Maintenance and repair

Atlas had it easy; wartime maintenance problems of various companies. il Bus Transportation 21:427-30, 467-9 S-O '42 (to be cont)

Bus Transportation maintenance awards; 1941 winners; with cost data. il Bus Transportation 20:525-43 N '41

Bus transportation 1942 award winners. il Bus Transportation 21:450-1 O '42

Conservation kinks from Queens-Nassau shop. il diag Bus Transportation 21:86-7 F '42

First $25 war bond goes to Canadian; D. Kaufman, Montreal tramways co., wins first prize in Bus Transportation's conservation contest. il Bus Transportation 21:476-7 O '42

Gearing maintenance to wartime tempo. J. C. Baine, jr. il Bus Transportation 21:408-10 S '42

How Montreal won Transit Journal maintenance award for 1941. il diags Transit J 85:422-5 N '41

Howjadoits. E. F. Theisinger. Published in monthly numbers of Bus transportation

Is rubber a maintenance problem? control measures of Capital transit co. Bus Transportation 21:252-3 Je '42

Maintenance kinks from Portland, Ore. il Transit J 86:286-7 Ag '42

Maintenance notebook. Published in monthly numbers of Transit journal

Maintenance; the no.1 problem of the future. R. H. Stier. il Transit J 86:318-21 S '42

Man hours, material and machine time; record system, maintenance department of the Los Angeles railway. L. S. Flint. il Bus Transportation 21:358-60 Ag '42

Motor bus and the national defense program. il Bus Transportation 20:573-80 D '41

New York is tough on buses. il Bus Transportation 21:32-5 Ja '42

1942 awards for maintenance; rules. il Bus Transportation 21:36-7 Ja '42

No clerical help required; Tanner Tours maintenance record system. L. S. Flint. il Bus Transportation 21:80-1 F '42

Reclamation helps the war effort; Philadelphia transportation company. il Transit J 86:88-91 Mr '42

Saginaw's bus maintenance wins recognition. il Transit J 86:96-9 Mr '42

Small carriers need maintenance too; procedure developed by the Flxible co. Bus Transportation 21:208-10 My '42

That ounce of prevention. il diags Bus Transportation 21:42-3 Ja '42

To keep 'em rolling and make 'em last; Fifth Avenue coach company and New York city omnibus corporation offer suggestions. diags Bus Transportation 21:144-5 Mr '42

Varsity '42; schools for garage and shop men; Pennsylvania and Richmond Greyhound lines. R. E. Cochran. il Bus Transportation 21:263-5 Je '42

Winners chosen in Transit Journal maintenance contest. Transit J 86:384 O '42

See also

Motor bus lines—Shops

Motor buses—Cleaning

Motor buses—Repair

Management

Carrying 18 billion riders a year; industry must adopt new methods. W. R. Pollard. il Transit J 86:55-6 F '42

East Bay cities get unified service. C. Robertson. il map Transit J 85:448-51 D '41

Fare box; sales promotion for local carriers. Published in monthly numbers of Bus transportation

How mass transportation is conducted in Dallas. M. A. Jarrow. il Mass Transportation 38:120-8 My '42

How mass transportation is conducted in Houston. M. A. Jarrow. il Mass Transportation 38:199-203 Ag '42

How mass transportation is conducted in Louisville. il Mass Transportation 38:34-42 F '42

How mass transportation is conducted in Memphis. M. A. Jarrow. il Mass Transportation 38:278-84 O '42

How mass transportation is conducted in Toledo. il Mass Transportation 37:351-8 D '41

IRC and ODT, in Buffalo; an unbeatable combination. il Bus Transportation 21:316-17 Jl '42

Miami keeps 'em rolling. H. Phillips. il plan map Bus Transportation 21:206-7 My '42

New buses for old; Philadelphia transportation co. makes complete replacement of equipment. il Transit J 85:457-9 D '41

Operators go to work on ODT's plan for intercity carriers; order no. 11. Bus Transportation 21:310-12 Jl '42

Portland buses handle war traffic in stride. H. S. Knowlton. il Transit J 86:275-8 Ag '42

Save that gas; companies help fuel conservation. Bus Transportation 21:92-3 F '42

Stop octane sabotage; fuel conservation. il Bus Transportation 20:570-2 D '41

Stretching buses, or making one bus do the job of two! Bus Transportation 21:174-5 Ap '42

Ticket window. B. Welbourne, ed. Published in monthly numbers of Bus transportation

Using transit's machine to best advantage. G. A. Richardson. il Transit J 86:52-3 F '42

Your job is at stake too, Mr Boss; tire situation; get your story across to the men by personal appeal. Bus Transportation 21:276-7 Je '42

Military use

Carriers handling selective service business; return trips. Bus Transportation 21:364 Ag '42

How to get army transportation bills paid. il Bus Transportation 20:544-6 N '41

Ticket to the fighting front; selectee transportation. L. Markel and B. Ethridge. il Bus Transportation 21:402-4 S '42

Officials

We knew 'em when; twenty year old portraits of bus line officials. Bus Transportation 21:6-9 Ja '42

Passenger ejection

Sorry, Sir, you can't ride this bus! when can passengers be ejected without legal liability? L. T. Parker. il Bus Transportation 21:356-7 Ag '42

Public relations

Brickbats and bouquets; Santa Fe trailways, Western division in Los Angeles, technique for following up complaints and favorable comments. H. Embry. Bus Transportation 20:548-9 N '41

From the woman's viewpoint. J. Chamberlain. Bus Transportation 20:550-1 N '41

Research riding aids in transit's wartime job. H. W. English. Transit J 86:163 My '42

Telephone solicitation in the follow-up of inquiries; Interstate transit lines-Union Pacific stages, inc. il Bus Transportation 20:547 N '41

Wartime business, an open letter; with illustrations of good and bad public relations practices. Bus Transportation 21:118-21 Mr '42

Purchasing

Rating order P-22 amended by OPM. Bus Transportation 20:563 N '41

MOTOR bus lines—*Continued*

Radio telephone

Radio communications installed at St Louis and Cleveland. il Transit J 85:416-17 N '41

Railroad operation

Susquehanna's commuter bus service is intraterminal. Ry Age 113:354-5 Ag 29 '42

Records

Gas and oil deliveries checked automatically; printing registers on fuel pumps; Boston elevated railway. il Transit J 85:429-31 N '41

Man hours, material and machine time; record system, maintenance department of the Los Angeles railway. L. S. Flint. il Bus Transportation 21:358-60 Ag '42

No clerical help required; Tanner Tours maintenance record system. L. S. Flint. il Bus Transportation 21:80-1 F '42

Small carriers need maintenance too; procedure developed by the Flxible co. Bus Transportation 21:208-10 My '42

Safety measures

Old stuff but safe stuff; safety instruction cards in the shop. il Bus Transportation 21:94-6 F '42

Safety inspection checks road vehicles; Chicago surface lines establishes test lane. il Transit J 86:140-1 Ap '42

See also

Motor bus drivers

Service

Detroit goes to war; service for war workers. R. G. Silbar. il Bus Transportation 21:392-4 S '42

Little guy gets a break in Los Angeles; serving small plant transit needs. Bus Transportation 21:412-13 S '42

Navy and transit company attack Norfolk problem. H. F. Hammond. Transit J 86:272-4 Ag '42

School buses in transit service; practices of various companies. Transit J 86:385-6 O '42

See also

Motor bus lines—Extensions

Shops

Bus maintenance kinks from Milwaukee shops. il Transit J 85:466-7 D '41

Exhibits of transit equipment; devices for shop work; pictorial review. Transit J 86:350-2 S '42

New streamlined facilities keep Seattle's coaches fit. M. D. Mills. il plan Transit J 86:132-5 Ap '42

No priority on ideas; shop of the Green bus lines, inc., South Jamaica, N.Y. E. F. Theisinger. il diag Bus Transportation 20:582-5 D '41

Norfolk has its own production rebuilding plan; reduces engine overhaul time. J. W. Cole. il Bus Transportation 21:250-1 Je '42

Pit lighting. Transit J 86:385 O '42

Salvage is a life saver; shops of St Louis Public Service; illustrations and text. E. F. Theisinger. Bus Transportation 21:244-9 Je '42

Shop kinks from Detroit. il Bus Transportation 21:374-5 Ag '42

Two ideas; one saves labor the other saves oil. il Bus Transportation 21:185 Ap '42

Show windows

Indianapolis wins window award. il Bus Transportation 21:411 S '42

Window display and the war effort! il Bus Transportation 21:179-80 Ap '42

Statistics

Basic facts about the bus industry. il Bus Transportation 21:14-16 Ja '42

Bus revenues show marked increase, first nine months 1941-1940. C. W. Stocks. Bus Transportation 20:588-91 D '41

Bus traffic sets new high; first quarter, 1942. C. W. Stocks. Bus Transportation 21:272-5 Je '42

Bus traffic sets new high; second quarter and first six months of current year. C. W. Stocks. Bus Transportation 21:431-4 S '42

Census of school bus service. Bus Transportation 21:27 Ja '42

Census of service; tabulation. Bus Transportation 21:26 Ja '42

Here's what an average bus does. Bus Transportation 21:17 Ja '42

How cities are served. Transit J 86:18 Ja '42

Huge loads are certain during the war years. C. Gordon. Transit J 86:46-9 F '42

Ownership census; tabulation. Bus Transportation 21:25 Ja '42

Transit progress in 1941; statistics; revenue, costs, rolling stock, etc. Transit J 86:9-27 Ja '42

Stops

Cut out for victory; fewer stops to conserve rubber and service. il Bus Transportation 21:346-9 Ag '42

Skip-stop plans; experiences of various companies. Transit J 86:180-1 My '42

Street railroad operation

How mass transportation is conducted in Denver. il Mass Transportation 38:96-100 Ap '42

Student tours

Tanner's teaching tours; educational trips for school students. il Bus Transportation 21:39 Ja '42

Terminals

Car and bus loops promote safety; Philadelphia transportation co. il Transit J 86:32-3 Ja '42

Modernistic rail-bus station the talk of the town; new structure on the D. & R.G.W. at Salida, Colo. il plans Ry Age 112:442-4 F 28 '42

New England transportation co. opens new terminal in Providence. il Bus Transportation 21:194 Ap '42

Ready for a bigger job! modernization of Los Angeles terminal. L. S. Flint. il plan Bus Transportation 21:164-7 Ap '42

Visible headline fare rack in major terminals of Union Pacific Stages. il Bus Transportation 21:38-9 Ja '42

Ticket agents

Pacific Greyhound puts tickets on sale at many points. il Bus Transportation 21:38 Ja '42

Tickets

Unredeemed ticket credits; practices of various companies. Transit J 86:145-6 Ap '42

Traffic

Basic principles for staggered hours studies; abstracts. H. S. Simpson. Mass Transportation 38:296-8 O '42; Transit J 86:382-3 O '42

Hour-staggering halves Los Angeles peaks. L. S. Flint. il Transit J 86:209-11 Je '42

In the vanguard for staggered hours; Dallas railway & terminal company, in cooperation with civic bodies, is working out plan. Transit J 86:127-9 Ap '42

Increasing the efficiency of bus use; staggering hours of employment and schools; experience in Nation's capitol. D. J. Locke. Bus Transportation 21:134-7 '42

No royal road to staggered hours; how Providence, R. I. is solving problem. E. F. Theisinger. il Bus Transportation 21:398-401 S '42

Pontiac points the way; wartime traffic problems. R. G. Silbar. il Transit J 86:130-1 Ap '42

Riding makes record gain. Transit J 86:10-11 Ja '42

San Diego, where every hour is rush hour. L. S. Flint. il Bus Transportation 21:462-6 O '42

Staggered-hour studies. H. S. Simpson. Transit J 86:382-3 O '42

Toward the twenty billion mark. C. Gordon. Transit J 86:366-9 O '42

MOTOR bus lines—*Continued*

Transfers

Intercompany transfers; practices of various companies. Transit J 86:217-18 Je '42

Winter operation

Outside storage of buses in winter; experiences of various companies. Transit J 85:434-5, 470 N-D '41

Yards

Paving of outdoor bus storage; practices of various companies. Transit J 86:76-7 F '42

Buffalo

IRC and ODT, in Buffalo; an unbeatable combination. il Bus Transportation 21:316-17 Jl '42

California

East Bay cities get unified service. C. Robertson. il map Transit J 85:448-51 D '41

Canada

Conserving transportation. H. C. Patten. Transit J 86:374-5 O '42

Wartime transit control; abstract. G. S. Gray. Bus Transportation 21:313-15 Jl '42

Connecticut

Connecticut co.; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:533-4 N '41

Decatur, Illinois

Decatur city lines; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:543 N '41

Detroit

Detroit goes to war; service for war workers. R. G. Silbar. il Bus Transportation 21:392-4 S '42

Great Britain

Bus operation under war conditions. M. W. Bourdon. il Automotive & Aviation Ind 86:32-3+ Mr 1 '42

Practical problems of transit in war time. W. V. Moreland. il Transit J 85:412-15 N '41

Hawaiian Islands

Private Iannelli goes to town again, in Hawaii. il Bus Transportation 21:355 Ag '42

Honolulu

Hawaiian howjadoits; Honolulu rapid transit co. mechanical department; illustrations. Bus Transportation 20:598-9 D '41

Honolulu rapid transit co. under bomb fire; an eye-witness account. A. E. Kirk. il Bus Transportation 21:56-7 Ja '42

Jacksonville, Florida

Ready for anything; Jacksonville's motor transit company motor reserve battalion. il Transit J 86:239 Jl '42

London, England

It isn't the blitz, it's the blackout! first hand story by a London bus driver. il Bus Transportation 21:28-30 Ja '42

Los Angeles

How Los Angeles tackled the war-worker transit problem. L. S. Flint. il Bus Transportation 21:302-5 Jl '42

Little guy gets a break in Los Angeles; serving small plant transit needs. Bus Transportation 21:412-13 S '42

More blackout tips from the West coast; situation in Los Angeles. L. S. Flint. il Bus Transportation 21:132-3 Mr '42

Massachusetts

Eastern Massachusetts; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:530-2 N '41

Miami, Florida

Miami keeps 'em rolling. H. Phillips. il plan map Bus Transportation 21:206-7 My '42

Montgomery, Alabama

Montgomery city lines; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:540 N '41

New Jersey

New Jersey virtually an all-bus state. L. F. Conlon. il Bus Transportation 21:68-71 F '42

New Orleans

New Orleans public service; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:535-6 N '41

Teche lines, inc.; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:537-8 N '41

New York (city)

Long haul bus companies win in court. Bus Transportation 21:220 My '42

New York is tough on buses. il Bus Transportation 21:32-5 Ja '42

Pennsylvania

Southern Pennsylvania bus company; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:539 N '41

Philadelphia

New buses for old; Philadelphia transportation co. makes complete replacement of equipment. il Transit J 85:457-9 D '41

Portland, Maine

Portland buses handle war traffic in stride. H. S. Knowlton. il Transit J 86:275-8 Ag '42

Puerto Rico

Puerto Rico keeps 'em rolling! il Bus Transportation 20:581 D '41

Seattle

What they did on the Seattle transit system; blackout operations. il Bus Transportation 21:177 Ap '42

United States

Bus jam; wartime job is overtaxing equipment. Business Week p41-2 D 13 '41

Intercity service. G. A. Richardson. Bus Transportation 21:455-6 O '42

It happened in 1941. il Bus Transportation 21:10-13 Ja '42

More new buses; WPB's postponement of manufacturing shutdown. il Business Week p26 Jl 25 '42

Motor bus and the national defense program. il Bus Transportation 20:573-80 D '41

They're all in use; every bus that has wheels and an engine is now giving service; results of survey. il Transit J 86:136-9 Ap '42

Vermont

Vermont Transit; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:542 N '41

Washington, D.C.

Capital Transit; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:526-9 N '41

Increasing the efficiency of bus use; staggering hours of employment and schools; experience in Nation's capitol. D. J. Locke. Bus Transportation 21:134-7 Mr '42

MOTOR bus lines, School

Census of school bus service. Bus Transportation 21:27 Ja '42

School bus leasing costs clarified. Bus Transportation 21:487 O '42

School buses in transit service; practices of various companies. Transit J 86:385-6 O '42

School transportation in wartime. 101p pa 50c Am. automobile assn, Pennsylvania av. & 17th st, Washington, D.C. '42

Texas situation as to insurance for public bodies. Nat Underw 46:22 Ja 29 '42

These little buses go to school, and must pass their exams too! safety for school buses in Illinois. C. C. Hall. il Bus Transportation 21:214-15 My '42

MOTOR bus lines, Tourist

No clerical help required; Tanner Tours maintenance record system. L. S. Flint. il Bus Transportation 21:80-1 F '42

MOTOR bus lines in war

Blackout and air raid howjadoits. il Bus Transportation 21:186-7 Ap '42

Bus operation under war conditions. M. W. Bourdon. il Automotive & Aviation Ind 86: 32-3+ Mr 1 '42

Buses and the war. J. B. Eastman. Bus Transportation 21:390 S '42

Buses at war; illustrations. Bus Transportation 21:419-26 S '42

Highlighting the blackout on the West coast. il Bus Transportation 21:130-2 Mr '42

Honolulu rapid transit co. under bomb fire; an eye-witness account. A. E. Kirk. il Bus Transportation 21:56-7 Ja '42

Inter-city bus service restricted by ODT. Comm & Fin Chr 155:2315, 2403 Je 18, 25 '42

It isn't the blitz, it's the blackout! first hand story by a London bus driver. il Bus Transportation 21:28-30 Ja '42

More blackout tips from the West coast; situation in Los Angeles. L. S. Flint. il Bus Transportation 21:132-3 Mr '42

Moving Mr Moto in toto; transporting Japanese evacuees. il Bus Transportation 21: 352-4 Ag '42

NAMBO war council; annual sessions of the National association of motor bus operators and the National bus traffic association. Bus Transportation 21:457-61 O '42

Practical problems of transit in war time. W. V. Moreland. il Transit J 85:412-15 N '41

San Diego, where every hour is rush hour. L. S. Flint. il Bus Transportation 21:462-6 O '42

They're all in use; every bus that has wheels and an engine is now giving service; results of survey. il Transit J 86:136-9 Ap '42

This is a war of transportation. M. R. Boylan. Bus Transportation 21:389 S '42

Unnecessary operations must go; official statement by John L. Rogers, director, Division of motor transport, Office of defense transportation. Bus Transportation 21:176 Ap '42

Wartime measures! il Bus Transportation 21: 40 Ja '42

What they did on the Seattle transit system; blackout operations. il Bus Transportation 21:177 Ap '42

Winning the war our no. 1 job. A. M. Hill. Bus Transportation 21:388 S '42

MOTOR bus operators, National association of. See National association of motor bus operators

MOTOR bus tires. See Tires, Motor bus

MOTOR bus trailers

More trailer buses. il Bus Transportation 21: 362-3 Ag '42

ODT studies the box car bus; bus trailer may be answer to problem of transporting war workers. Pub Util 29:642-4 My 7 '42

136-passenger bus designed to save steel, rubber. il Steel 110:50 Je 15 '42

Trailer takes 140 to work. il Factory Management 100:67 Jl '42

MOTOR buses

Buses replace many autos at big aircraft plant; emergency transportation service established by four charter bus companies for Glenn L. Martin co. il map Transit J 86:244-7 Jl '42

Exhibits of transit equipment; buses; pictorial review. Transit J 86:326-33 S '42

How to order buses under form M-100; truck-type buses frozen. Bus Transportation 21: 211 My '42

New buses for old; Philadelphia transportation co. makes complete replacement of equipment. il Transit J 85:457-9 D '41

New subsidy plan solves ride-to-work problem; buses and streetcars subsidized by Lockheed. il Factory Management 100:92-4 O '42

Seating arrangement determines carrying capacity of new bus produced by Meteor motor car co. il Transit J 85:432-3 N '41

Truck and bus sessions; SAE annual meeting. S A E J 50:sup61-2 F '42

Vehicles and materials for transit. E. S. Pardoe. Transit J 86:381-2 O '42

See also

Motor bus industry and trade	Motor bus lines
	Trolley buses

Air conditioning

Railroad car and bus air conditioning; abstract. C. G. Callow. Refrig Eng 43:46-7 Ja '42

Axles

1942 bus axle and brake specifications; tabulation. Bus Transportation 21:54 Ja '42

Chassis

Guy bus chassis. il diags Automobile Eng 32:383-91 O '42

Cleaning

Get the most out of mohair. H. A. Giles. il Bus Transportation 21:221 My '42

Getting rid of muck; cleaning of engines, understructures and parts. il Bus Transportation 21:230-2 My '42

Keep 'em rolling but keep 'em clean, too. il Bus Transportation 21:370-1 Ag '42

Steam cleaner improved. W. A. Wallace. plan Transit J 86:144 Ap '42

Substitute degreasing methods; experiences of various companies. Transit J 86:75-6 F '42

Color

Color catches the eye; illustrations and descriptions of color schemes. Transit J 85:452-3 D '41

Cost of operation

School bus leasing costs clarified. Bus Transportation 21:487 O '42

Design

Aluminum eliminated, bus weight is reduced; J. G. Brill company. diags Product Eng 13:6-9 Ja '42

Does it save rubber? mechanical details of some of the more recent bus designs. il diags Bus Transportation 21:306-9 Jl '42

Substitute materials; how they affect bus design. R. D. Parsons. il diags Bus Transportation 21:22-4 Ja '42

What ACF did with the 37 PBS. il Bus Transportation 21:361 Ag '42

Doors

Less door glass breakage; use the Plexiglas. H. Stapleton. il Bus Transportation 20:596 D '41

Electric equipment

Exhibits of transit equipment; electric vehicle motors and control; pictorial review. Transit J 86:338-9 S '42

Watch that electrical equipment. W. H. Crouse. il Bus Transportation 21:328-9 Jl '42

Equipment

Exhibits of transit equipment; bus devices; pictorial review. Transit J 86:334-5 S '42

Rider distribution and counting; combination of Perey Passimeter and fare collection equipment. il Transit J 86:147 Ap '42

WPB asks simplified bus equipment. Bus Transportation 21:234 My '42

See also

Brakes, Motor bus

Gearing

Electric drive characteristics. G. M. Woods. il Bus Transportation 21:76-8 F '42

Laws and regulations

See also

Motor bus lines—Laws and regulations

Lighting

Blackout strategy. R. D. Voshall. il Bus Transportation 21:126-9 Mr '42

MOTOR buses—Lighting—*Continued*

Specifications completed for blackout lighting; applicable to all vehicles. G. E. Doying, jr. Transit J 86:200-2 Je '42

Materials

Aluminum eliminated, bus weight is reduced; J. G. Brill company. diags Product Eng 13:6-9 Ja '42

Substitute materials; how they affect bus design. R. D. Parsons. il diags Bus Transportation 21:22-4 Ja '42

Painting

Finishing of Greyhound coaches. W. A. Duvall. il Metal Finishing 40:163-4 Mr '42

Modern spray room at Toronto shops. il Mass Transportation 38:78 Mr '42

One-day paint job. E. F. Theisinger. il Bus Transportation 21:414-17 S '42

Repair

British keep buses rolling. Transit J 86:283 Ag '42

British practice in reconditioning worn parts. Automotive & Aviation Ind 87:49 Jl 15 '42

Building up worn parts. W. J. Cumming. S A E J 50:139-40 Ap '42; Same. Automobile Eng 32:313-14 Ag '42; Abstracts. Automotive & Aviation Ind 86:21 F 1 '42; Metals & Alloys 15:1038+ Je '42

Cheat the scrap pile; reclamation of bus parts; San Antonio public service co. L. McInerny. il Bus Transportation 21:260-2 Je '42

New parts for old! New Orleans Public Service adapts metallizing process. il Transit J 86:284-6 Ag '42

Seven salvage sketches; motor bus equipment. T. L. Mino. diags Bus Transportation 21:334 Jl '42

What about metal spray! rebuilding motor bus parts; with cost data. E. F. Theisinger. il Bus Transportation 21:266-8 Je '42

Seats

Exhibits of transit equipment; seats and upholstery; pictorial review. Transit J 86:342-4 S '42

Specifications

American bus chassis; tabulations. Automotive & Aviation Ind 86:112-13 Mr 15 '42

1942 motor bus component parts; tabulation. Bus Transportation 21:50-1 Ja '42

1942 motor bus general characteristics; tabulation. Bus Transportation 21:48-9 Ja '42

Speed

Can bus speeds be lowered? Bus Transportation 21:168 Ap '42

Statistics

Vehicle orders hit all-time high; with list of companies and purchases for 1941. Transit J 86:19-24 Ja '42

Transmission

Guy bus chassis. il diags Automobile Eng 32:385-8 O '42

Heavy vehicle propulsion; automatic control on hydraulic drive. il diags Automobile Eng 32:3-6 Ja '42

Hydraulic transmission; fluidgear. diags Automobile Eng 32:363-5 S '42

Upholstery

Exhibits of transit equipment; seats and upholstery; pictorial review. Transit J 86:342-4 S '42

Get the most out of mohair; cleaning. H. A. Giles. il Bus Transportation 21:221 My '42; Abstract. Transit J 86:71 F '42

Weight

Aluminum eliminated, bus weight is reduced; J. G. Brill company. diags Product Eng 13:6-9 Ja '42

Wheels

In line or not in line; how tire life can be extended by front end check up. H. M. Smith. il Bus Transportation 21:282-3 Je '42

MOTOR buses, Diesel-electric

Dynamic braking pays dividends. W. J. Clardy. diags Power Pl Eng 46:72-3 Je '42

MOTOR buses, Gasoline-electric

Electric brake for electric drive buses. F. M. Turner. il diag Mass Transportation 37:359-60 D '41

Electric drive characteristics. G. M. Woods. il Bus Transportation 21:76-8 F '42

MOTOR carriers. See Motor bus lines; Motor trucks in freight service

MOTOR cars (railroad)

Coupled railcars for the Great western railway. il Engineering 152:410, 419-20 N 21 '41

De luxe railcars for South America. il Diesel Power 19:1038-9+ D '41

Future of the railway oil engine. B. Reed. Engineering 153:145-6, 218-20 F 20, Mr 13 '42; Same cond. Engineer 173:104-6 Ja 30 '42

High-altitude Bolivian railcars; abstract. D. F. Flowers and F. F. Flowers. il S A E J 50:sup45-6 Je '42

Kalamazoo no. 65 officials' inspection car. il Ry Age 112:552-3 Mr 14 '42

Locomotive fuel figures accurately compared; statistics of fuel and power consumption of locomotives and motor cars. E. E. Ramey. Ry Age 112:786-91+ Ap 18 '42

Twin-coupled railcars for Great western railway. il Engineer 172:339 N 14 '41

Design

Illinois Central buys two-car self-propelled train. il plan Ry Age 111:986-90 D 13 '41

Motorailer connecting service for Missouri River Eagles. il Ry Age 113:661-3 O 24 '42

Diesel-electric

Denver and Rio Grande Western installs two-car deluxe trains. il plan Ry Mech Eng 115:503-7+ D '41; Same. Ry Age 111:952-5 D 6 '41

Illinois Central buys two-car self-propelled train. il plan Ry Age 111:986-90 D 13 '41

MOTOR cycles

Bicycles, motorcycles answer tire-gas rations; utilities adopt two-wheeled vehicles. il Elec W 117:1890 My 30 '42

Rubber suspension; the application of conical torsion disc units to cycles and motor cycles. C. Macbeth. il diags Automobile Eng 32:151-5, 195-8 Ap-My '42

Super-cycle saves time in war plants. il Marine Eng 47:200 Ag '42

MOTOR fuels. See Automobile engines—Fuel; Automotive fuel; Gasoline; Motor bus engines—Fuel; Motor truck engines—Fuel

MOTOR reserve battalion. See Motor bus lines—Emergency problems

MOTOR ships

A. C. Dodge, motor vessel. il Marine Eng 47:140-2 S '42

American Manufacturer, motorship. il plan Marine Eng 46:116-17 N '41

Anker L. Christy, Diesel towboat. il Marine Eng 47:131-2 Mr '42

Arthur Hoyt Scott, cargo carrier. diag plans Marine Eng 46:126+ N '41

Barryton ocean-going Diesel tug. il Marine Eng 46:80-2 D '41

British wartime cargo ships. plans Marine Eng 47:124-5 Mr '42

Cape Alava, cargo ship. il Marine Eng 46:124-5+ N '41

Diesels for C1A cargo ships. il diags Marine Eng 47:140-3+ Ag '42

Esso Williamsburg, motor tanker. il diag Marine Eng 46:107+ N '41

Hartford and Stanford Diesel tugs. il Marine Eng 47:84-6 F '42

Island Mail, motor cargo ship. il diags Marine Eng 46:138-9 N '41

Mannington and Tarentum, Barnes-Duluth tankers. il Marine Eng 47:125 Ag '42

Motor passenger vessel for the lake of Thun. Engineering 153:45 Ja 16 '42

MOTOR ships—*Continued*

Propelling machinery of cross-Channel packets. W. Gregson. diags plans Inst Mech Eng J & Proc 147:Proc 176-84, pl 18-20 S '42; Same. Engineering 153:390, 397-400 My 15 '42; Same cond. Engineer 173:154-6 F 20 '42

Recent motor cargo ship. plans Engineer 172:340 N 14 '41

Result of the Sea Otter trials. E. Johnson. il Marine Eng 47:119-22 My '42

Sea Otter ships may transport oil to Atlantic coast. il Nat Pet N 33:23 N 12 '41

Sea Otter II welded from wide strip. il Iron Age 148:60-1 D 11 '41; Same. Steel 110:64 Ja 19 '42

Tidewater tanker Flying A. il diag Marine Eng 46:114 N '41

Victoria, bulk cargo motorship. diag plan Marine Eng 46:146 N '41

Victoria, motor tanker. O. A. Sibley. il Marine Eng 46:76-9 D '41

See also

Diesel engines, Marine
Gas and oil engines, Marine
Motor boats
Ship propulsion, Electric

MOTOR truck drivers

Deliverymen balk; union in Pittsburgh demanding that year's work be guaranteed. Business Week p65-6 F 21 '42

Effect of driving fatigue on the critical fusion frequency of the eye. R. H. Lee and E. C. Hammond. Ind Med 11:360-3 Jl '42

Spreading sells agstone; brightly painted trucks, sales-minded drivers, and spreading equipment. B. Nordberg. il Rock Prod 45:36-7+ My '42

Star drivers club. il Ptr Ink 197:72 D 19 '41

Testing truck drivers. Safety Eng 82:43-4 N '41

Through the windshield; safety work of Reliable cartage co. il Safety Eng 82:34 D '41

Truckers' truce. Business Week p57-8 N 22 '41

Wages and hours of union motortruck drivers and helpers, June 1, 1941. K. B. Mohn. Monthly Labor R 54:487-95 F '42

See also International brotherhood of teamsters, chauffeurs, warehousemen, and helpers of America

Training

Four problems Fruehauf Trailer licked with a training film. W. D. Wise. il Sales Management 51:48, 50 O 1 '42

Soldier motor-vehicle drivers are made—not born. E. S. Van Deusen. S A E J 50:sup15-16 Ap '42

MOTOR truck engines

Commer 15- and 25-cwt. chassis. il diags Automobile Eng 32:43-6 F '42

Diesel engines for trucks. B. B. Bachman. Diesel Power 20:147-9+ F '42; Excerpts. S A E J 50:51 F '42

Bearings

Bearing for heavy-duty automotive engines. A. B. Willi. il diags S A E J 50:62-72 F '42

Design

Austin Ten chassis; military utility truck based on popular model. il diags Automobile Eng 32:255-62 Jl '42

Late developments in automotive Diesels; Mack-Lanova engines. il diags Diesel Power 20:407-8+ My '42

Vulcan six-ton chassis. il diags Automobile Eng 32:211-15 Je '42

White Horse light delivery van. il diags Automobile Eng 32:127-33 Ap '42

Efficiency

Automotive engines of high output; abstract. P. E. Biggar. S A E J 50:251-2 Je '42; Same. Automobile Eng 32:365-6 S '42

Commercial vehicles and lower-octane fuels; from the engine manufacturer's viewpoint. R. L. Weider. S A E J 50:128-31 Ap '42

Exhaust

Influence on atmospheric pollution of the exhausts from Diesel automotive vehicles and locomotives. R. J. Bender. Diesel Power 20:646-9 Ag '42

Fuel

Champion men experiment with gas substitute; equip truck with charcoal gas unit. Paper Ind 24:682 O '42

Commercial vehicles and lower-octane fuels; symposium. W. H. Hubner and others. S A E J 50:125-36; Discussion. 137-8 Ap '42

Debate effect of cut in anti-knock value of fuel on car maintenance; abstracts of papers at annual meeting of Society of automotive engineers. Nat Pet N 34:R18, R20 Ja 21 '42

First solid fuel truck; equipped with a homemade, charcoal-gas producer. il Business Week p72 O 24 '42

Gas generators for motorcars. Mech Eng 64:134-5 F '42

Lower-octane gasoline; effect on design, operation, maintenance. S A E J 50:sup29-31 F '42; Same. Nat Pet N 34:R78-80 Mr 4 '42

Mobile gas producers for light and heavy vehicles. Gas J (Lond) 238:97 Ap 15 '42

Practical application of gas producers to road transport; abstracts. S. G. Ward and W. J. Morison. diag Engineer 173:386-7, 405-7 My 8-15 '42; Engineering 153:418-20, 438-40 My 22-29 '42; Gas J (Lond) 238:289, 329, 421+ My 20-27, Je 10 '42

Sludge gas for motor fuel. il Eng N 127:802-3 D 4 '41

Wood gas drives B. C. truck; abstract. R. M. Brown. Pulp & Pa of Can 42:737 N '41

Fuel feeding

Fuel conservation methods outlined for fleet owners; abstract and discussion. E. J. Gay. S A E J 49:sup30-1 D '41

Lubrication

Factors influencing the choice of heavy duty lubricants; abstract. R. I. Stirton. S A E J 49:sup37 D '41

How to lubricate a motor in 2 minutes. il Roads & Sts 85:83 O '42

Maintenance and repair

Chromium plating for improving motor equipment service; abstract and discussion. E. W. Templin. S A E J 49:sup38 D '41

Specifications

American gasoline engines; tabulation. Automotive & Aviation Ind 86:92-101 Mr 15 '42

Superchargers

Supercharged motors for highway transport; abstract. P. Glade. S A E J 49:sup40 D '41; Same. Automobile Eng 32:208 My '42

Supercharging; a consideration of commercial-vehicle application. P. E. Biggar. il Automobile Eng 32:321-4 Ag '42

MOTOR truck industry

Rebuilding trucks; manufacturers urge dealers to make smaller models into heavy duty ones. il Business Week p66 Jl 11 '42

See also

Automobile industry and trade

Securities

War booms demand for motor trucks; selected companies face volume gains likely to offset higher taxes. W. Gates. il Mag of Wall St 69:317-19+ D 27 '41

Statistics

New registrations; tabulated by makes, by manufacturing groups, by month, 1931-1941, by years, 1895-1941; by population groups. Automotive & Aviation Ind 86:70-4 Mr 15 '42

Production record of the industry from its beginning to the end of 1941; United States and Canada; tabulations. Automotive & Aviation Ind 86:80-2 Mr 15 '42

MOTOR truck industry—Statistics—*Continued*

War booms demand for motor trucks. W. Gates. il Mag of Wall St 69:317-19+ D 27 '41

United States

How many trucks? Business Week p18-19 N 29 '41

Truck speedup. Business Week p26 Ja 17 '42

MOTOR truck insurance. See Insurance, Motor truck

MOTOR truck lines. See Motor trucks in freight service

MOTOR truck tires. See Tires, Motor truck

MOTOR truck trailers. See Trailers

MOTOR trucks

Application of motor transportation to the gas industry from the operating engineer's viewpoint. A. C. Cherry. Am Gas Assn Proc 1941:624-6

Application of motor transportation to the gas industry from the transportation supervisor's viewpoint. J. M. Orr. il diag Am Gas Assn Proc 1941:617-23

Build filter plant into 1½-ton truck. P. W. Meinhardt. il diags Elec W 117:94+ Ja 10 '42

Ford V8 cars and trucks; construction, operation, repair. V. W. Pagé. 823p $3 Henley '42

Mechanized ice-salt system refrigerates Armour trucks. il diag Food Ind 14:62-3 F '42

Truck and bus sessions; SAE annual meeting. S A E J 50:sup61-2 F '42

Trucks pile 20,000 tons 20 feet deep; building emergency coal pile. il diags Power 86: 778-80 N '42

See also

Automobiles
Delivery of goods
Exhibits, Traveling
Motor truck drivers
Motor truck engines
Motor truck industry
Motor trucks and roads
Motor trucks in freight service
Movers—Advertising
Refrigeration on cars, trucks, etc.
Tank trucks
Tractors
Trailers

Bodies

Below-zero truck has handy compartments. il diags Food Ind 13:70-1 D '41

Care

How the nationwide oil industry can insure success of the U.S. truck conservation corps. W. C. Platt. Nat Pet N 34:4-5 Je 24 '42

Oil asked to join with U.S. in truck conservation plan. il Nat Pet N 34:3-4+ Je 24 '42

Chassis

Austin Ten chassis; military utility truck based on popular model. il diags Automobile Eng 32:255-62 Jl '42

Commer 15- and 25-cwt. chassis. il diags Automobile Eng 32:43-9 F '42

Vulcan six-ton chassis. il diags Automobile Eng 32:211-17 Je '42

Cost of operation

Maximum effectiveness from private trucks; with cost data. G. W. Laurie. Nat Pet N 34:28+ F 4 '42

These charts tell the motor truck story in an interesting way. W. F. Schaphorst. Am Gas J 155:38 D '41

Design

Design elements affecting safety. J. W. Lord. il S A E J 50:1-6 Ja '42

White Horse light delivery van. il diags Automobile Eng 32:127-36 Ap '42

Equipment

See also

Brakes, Motor truck
Tires, Motor truck

Fires and fire protection

Ready when needed; fire extinguishers for trucks. P. W. Eberhardt. il Nat Safety N 46:72-3 O '42

Gearing

Power proportional differential; a scheme for use with a six-wheel drive. il Automobile Eng 32:30 Ja '42

Laws and regulations

All states adopt reciprocity and minimum sizes and weight rules. Eng N 129:172 Jl 30 '42

Conservation of automotive equipment. J. Y. Ray. Edison Elec Inst Bul 10:361-2+ O '42

Court broadens grandpa rights. Ry Age 112: 503-4 Mr 7 '42

Freeing the trucks; relief from conflicting state regulations is sought. Business Week p54+ My 2 '42

Here's data applicants must provide to get war certificates for trucks. Nat Pet N 34: 23 S 30 '42

How a carrier becomes common; Commission reveals how to tell contract variety from the public-hire kind. Ry Age 112:347 F 7 '42

Illegal trucks get certificates. Ry Age 113: 319-20 Ag 22 '42

Loading legislation too arbitrary. J. L. McDonald. Roads & Bridges 80:82 Mr '42

Motor transportation. E. M. Brady. Oil Paint & Drug Rep 142:60-2 O 5 '42

New York truck renters risk right to drive. Nat Underw 46:19 F 26 '42

ODT takes control of all U.S. trucks; with text of order. Nat Pet N 34:3, 8-9 S 9 '42

ODT tightens hold on motor vehicles. Ry Age 113:417-18 S 12 '42

ODT truck rules concern oil executives. P. Reed. Oil & Gas J 41:27 Je 11 '42

142 district ODT offices organized to aid truckers. Nat Pet N 34:29 O 21 '42

Regulation of the weight of loads on rural highways. G. E. Stephenson. Roads & Bridges 80:78, 80 Mr '42

State restrictions on motor vehicle sizes and weights. M. W. English, comp. 1942 ed 120p pa $1.25 Nat. highway users conference, Nat. press bldg, Washington, D.C. '41

States adopt uniform standards for trucks. Comm & Fin Chr 155:2399 Je 25 '42

Throw out truck barriers or U.S. will, states told. Nat Pet N 34:26+ My 13 '42

Trade barriers still impede interstate truck movements. Nat Pet N 34:22 S 2 '42

Trends in federal regulation of motor carriers. J. C. Nelson. bibliog J Land & Pub Util Econ 18:366-72 Ag '42

Truck conservation rules revised by ODT. Oil Paint & Drug Rep 142:3+ Ag 3 '42

Truck permits go to B. & M. contractors. Ry Age 113:670 O 24 '42

War necessity certificate program will not be delayed, ODT declares. Nat Pet N 34: 32 N 4 '42

War transportation; O.D.T. order 21 and its effect on public utility fleets. L. Edsall. Am Gas Assn Mo 24:401-3 N '42

Maintenance and repair

Accent on upkeep. Business Week p16 O 24 '42

British practice in reconditioning worn parts. Automotive & Aviation Ind 87:49 Jl 15 '42

Conserving motor vehicles during war times; Lone star gas company. W. L. Carter. Gas Age 89:46+ My 7 '42

Conserving truck equipment with preventive maintenance. il Roads & Sts 85:62+ Je '42; Same. Coal Age 47:80+ S '42

How Britain saved trucks despite scarcity of parts. Nat Pet N 34:28-9 Jl 29 '42

How to conserve truck equipment through preventive maintenance. il Am Bld 64:82-4 My '42

Keep them running; an expert tells how. C. J. Read. il Diesel Power 20:587-8 Jl '42

Loggers lengthen life of equipment. Pulp & Pa of Can 43:778+ S '42

MOTOR trucks—Maintenance and repair—*Cont.*

Longer service from automotive equipment. N. Williams. il Oil & Gas J 40:164-6 Ap 30 '42

Maintenance garages keep 'em running in spite of many handicaps; District no. 13, Illinois Department of public works and buildings, Division of highways. il plan Roads & Sts 85:78-80 O '42

Maximum effectiveness from private trucks; with cost data. G. W. Laurie. Nat Pet N 34:28+ F 4 '42

Methods of truck maintenance in England. Roads & Sts 85:51 Ag '42

Motor vehicles in the gas industry. J. Y. Ray. Am Gas Assn Proc 1941:650-3; Excerpts. Am Gas J 155:67 N '41; Discussion. Am Gas Assn Proc 1941:653-5

ODT's 15,000-mile inspection checklist. Nat Pet N 34:26 Jl 8 '42

Preventive truck maintenance a must. il Food Ind 14:61-2 Mr '42

Rebuilding of parts for trucks urged. J. L. Rogers. Nat Pet N 34:29 My 20 '42

SAE War transportation and maintenance meeting, New York, Oct 7-8. S A E J 50: sup34-5, 57-9+ N '42

SAE West coast transportation and maintenance conference, Los Angeles, Aug. 20-22. S A E J 50:sup15-17 O '42; Automotive & Aviation Ind 87:43+ S 1 '42

Standard of Louisiana has complete shop for maintenance. P. Reed. il Oil & Gas J 41: 178+ S 24 '42

This plan will keep trucks rolling longer. il Food Ind 14:56-7 N '42

Transportation and maintenance sessions; SAE annual meeting. S A E J 50:sup58-61 F '42

Truck conservation corps formed by ODT. Oil Paint & Drug Rep 141:5+ Je 22 '42

Truck corps conservation plans pushed; nationwide campaign for preventive maintenance. il Nat Pet N 34:3, 21-2 Jl 1 '42

Truck corps is shot-in-arm for ration-worried dealers. il Nat Pet N 34:28 Ag 26 '42

Truck maintenance on a national basis. Roads & Sts 85:73-4 S '42

War maintenance; trucks and trailers, strip mines. il diags Coal Age 47:128-30 O '42

War-time operation of a public utility automobile fleet; Boston consolidated gas co. B. D. Connor. il map Am Gas J 157:29-36 N '42

Welding in maintenance; abstract. R. H. Clark. Automotive & Aviation Ind 86:21 F 1 '42

What are you doing to keep them rolling? automotive equipment maintenance. S. G. Page. Edison Elec Inst Bul 9:495-6 D '41

Management

Commercial vehicles and lower-octane fuels; from the fleet operator's viewpoint. F. L. Faulkner. S A E J 50:132-6 Ap '42

Control island helps to reduce truck costs; Foremost dairies, inc. Jacksonville, Fla. il diag plans Food Ind 14:66-7 Ag '42

Fuel conservation methods outlined for fleet owners; abstract and discussion. E. J. Gay. S A E J 49:sup30-1 D '41

How Illinois Bell Telephone cuts auto fleet maintenance costs. Sales Management 49: 66+ N 15 '41

Maximum effectiveness from private trucks; with cost data. G. W. Laurie. Nat Pet N 34:28+ F 4 '42

Speed up truck deliveries, watch maintenance; abstract. J. L. Rogers. Nat Pet N 34:19 Mr 11 '42

What to do about the tire problem. il Food Ind 14:61 F '42

See also
Delivery of goods

Painting

Finishing of dairy trucks. il Metal Finishing 40:334 Je '42

Truck design promotes product nationally; National dairy products corp. il Food Ind 14:68-9 O '42

Performance

Hill-climbing ability of motor trucks. C. C. Saal. diag Pub Roads 23:33-54 My '42; Excerpts. Roads & Sts 85:87-8 Je '42

Pooling

Department of justice approves plans for pooling trucks. il Nat Pet N 34:23 Mr 18 '42

Truck-pooling; ODT will be clearing plans for sharing freight and equipment. Business Week p24+ Jl 18 '42

Rationing

Appeal board for truck rationing. Comm & Fin Chr 155:1620 Ap 23 '42

Rationing program for trailers, trucks, truck-tractors formulated. Steel 110:45 Mr 9 '42

Requisitioning seen likely for idle truck equipment. Eng N 128:363 Mr 5 '42

Truck rationing program and local allocation offices. Roads & Sts 85:60-1 Ap '42

Records

Control sheet saves trucks, tires, fuel. il Food Ind 14:66-7 S '42

This plan will keep trucks rolling longer. il Food Ind 14:56-7 N '42

Safety measures

Design elements affecting safety. J. W. Lord. il S A E J 50:1-6 Ja '42

New trucking hazards call for more safety. il Food Ind 14:66 Ap '42

Take care of those trucks. H. W. Hoover. il Safety Eng 83:23-6 Mr '42

Through the windshield; safety work of Reliable cartage co. il Safety Eng 82:34 D '41

Size

Big truck bill hearings begin; measure to limit state veto on truck size. Ry Age 111:1004+ D 13 '41

States adopt uniform standards for trucks. Comm & Fin Chr 155:2399 Je 25 '42

Specifications

Truck specifications; tabulations. Automotive & Aviation Ind 86:107-11 Mr 15 '42

Track laying equipment

Creeper track for single wheels. il Automotive Ind 85:47+ D 1 '41

Transmission

Heavy vehicle propulsion; automatic control on hydraulic drive. il diags Automobile Eng 32:3-6 Ja '42

Transmission design and operation; abstract. E. L. Ludvigsen and T. Backus. S A E J 49:sup32+ D '41

Weight

Rated capacity of trucks and actual load carried. Roads & Sts 85:48 S '42

Regulation of the weight of loads on rural highways. G. E. Stephenson. Roads & Bridges 80:78, 80 Mr '42

Truck minimums must not exceed capacity of vehicles. Ry Age 113:425 S 12 '42

MOTOR trucks, Armored

See also
Motor trucks, Military

MOTOR trucks, Industrial

Buda builds new trucks. il Ry Age 112:340 F 7 '42

Buggymobile for road and airport paving; mobile concrete-placing unit. il Roads & Bridges 80:44 Ag '42

Douglas industrial low-loading elevating truck. il diags Engineering 153:365-6 My 8 '42; Mech Handling 29:165-6 S '42

Fork truck effects economies in reclaimed rubber plant. il Rubber Age 52:38 O '42

Foundry supplies handled on pallets; Pontiac motor division of General motors corp. il Iron Age 149:47 Ja 22 '42

Handling equipment for speeding aircraft production. L. V. Spencer. il Aero Digest 41:210+ Ag '42

How to get the most from power trucks. il Factory Management 100:121-8 N '42

MOTOR trucks, Industrial—*Continued*

Industrial jeep. il Manuf Rec 111:22-3+ Mr '42

Industrial truck systems. il Mech Handling 29:46-8, 75-6 Mr-Ap '42

Light-weight fork-type power truck. il Marine Eng 47:103 F '42

Material handling preparedness. C. H. Barker, jr. il Iron Age 149:32-5 Ja 22 '42

Materials handling equipment. il Automotive & Aviation Ind 87:96+ O 1 '42

No skids with this lift truck handling system; illustrations and text; Comment (Breaking a bottleneck with lift trucks). E. B. Merry, jr. Brick & Clay Rec 100:24-9 My '42

One motor truck does the work of two at this plant; Seattle brick and tile co. il Brick & Clay Rec 101:22-3 Jl '42

Permitting use of lift trucks on uneven roadways. il Brick & Clay Rec 101:23 O '42

Reducing brick handling costs 40c per thousand; lift trucks at General shale products corp. il diag Brick & Clay Rec 101:15-16 Ag '42

Short-turning shop truck for light loads. il Ry Mech Eng 116:112-13 Mr '42

Speed handling and delivery of blocks with high-lift fork trucks. H. Paulson. il Concrete 50:18-19 F '42

Trucks and pallets bring handling costs to earth; General electric co., Bridgeport. C. H. Barker, jr. il Factory Management 99:60-2 D '41

Versatile toters. Business Week p59-60+ O 24 '42

See also

Electric trucks, Industrial

MOTOR trucks, Military

Army switches to wood for cargo truck bodies. diags Product Eng 13:580 O '42

Austin Ten chassis; military utility truck based on popular model. il diags Automobile Eng 32:255-62 Jl '42

Chrysler packaging system for army replacement parts. E. L. Warner, jr. il Automotive & Aviation Ind 87:42-3+ Jl 15 '42

Inch by inch, tooth by gear; army officers receive technical training in motor vehicle operation and up-keep. il Sci Am 166:58-9 F '42

Motor vehicles of the U.S. army; illustrations. Automotive & Aviation Ind 86:55-9 Mr 15 '42

Soldier motor-vehicle drivers are made—not born. E. S. Van Deusen. S A E J 50:sup15-16 Ap '42

Trucks and tanks kept rolling; army's new motor repair base; heating and ventilating system. il Heat & Ven 39:19-21 Ag '42

What the army expects of motor vehicles. Nat Safety N 46:99 Jl '42

Wheels for army; new truck order involves 880,000 vehicles. Business Week p55 S 12 '42

Wood for trucks; Quartermaster corps ready for quick shift from steel for bodies of cargo trucks. Business Week p58 Je 20 '42

Manufacture

Revamped assembly lines roll out heavy army trucks; Studebaker corporation. il Am Mach 86:605-8 Je 11 '42

MOTOR trucks and roads

Hill-climbing ability of motor trucks. C. C. Saal. diag Pub Roads 23:33-54 My '42; Abstract. Roads & Bridges 80:98+ Mr '42

See also

Automobiles and roads

Road traffic

MOTOR trucks in freight service

Arnold vs. ICC; sides with complainant in suit over trucking merger. Business Week p23-4 Ag 1 '42

Artery for war; Pennsylvania's Turnpike used by 1,000 trucks a day. il Business Week p40+ O 10 '42

B. & O. revamps l.c.l. routing at New York city. il map Ry Age 112:1241-3 Je 27 '42

Bombers by truck; new trailer-tractor giants designed to haul Ford-built subassemblies. il Business Week p74+ Je 27 '42

Border bar lifted; U.S. truckers now may use shortcut across Ontario. Business Week p35+ O 10 '42

Eight truck concerns in big merger deal. East Underw 43:35 Mr 27 '42

Freightways sued; antitrust action filed. Business Week p81 F 14 '42

Haulaway what? segment of trucking industry is applying for defense jobs to keep itself alive. Business Week p70 F 28 '42

Highway transportation is a dominant factor in the war production program; Michigan state highway department investigation into role played by trucks and civilian automobiles in the carrying out of the war effort. Automotive & Aviation Ind 86:36-8 Ap 15 '42

How trucks are doing a bigger job. Nat Pet N 34:36 O 14 '42

Huge trucking changes seen. J. L. Rogers. Ry Age 112:667 Mr 28 '42

Improved haulage; new transportation setup of army and truckers. Business Week p37-8 S 19 '42

Interstate commerce commission would permit big truck combine. Ry Age 111:961+ D 6 '41

Motor traffic management. H. E. Stocker. rev ed 369p bibliog(p334-8) $5 Prentice-Hall '42

Motor transportation. E. M. Brady. Oil Paint & Drug Rep 142:60-2 O 5 '42

ODT goes to town; requiring certificate of war necessity of all commercial vehicle operators. Business Week p18-19 S 19 '42

Ontario passage; border shortcut is won for trucks bearing war goods. Business Week p14-15 Ag 1 '42

Roundup contest breaks records for Consolidated Freightways. il Sales Management 51:20-1 Jl 15 '42

Supplemental use of highway trucks by Southern Pacific. L. B. Young. il Ry Age 112:658-60 Mr 28 '42

Tests of trucks for high-speed freight service. 292p $5 Assn. of Am. railroads, Operations and maintenance dept, Mechanical div, Chicago '40

Trends in federal regulation of motor carriers. J. C. Nelson. bibliog J Land & Pub Util Econ 18:366-72 Ag '42

Truck co-ordination saves cars; Texas & Pacific motor transport company. il map Ry Age 113:310-11 Ag 22 '42

Truck-pooling; ODT will be clearing plans for sharing freight and equipment. Business Week p24+ Jl 18 '42

Truck speedup. Business Week p26+ Ja 17 '42

Truckers get some orders from ODT. Ry Age 112:866+ My 2 '42

Trucks are helping the railroads. V. V. Boatner. Ry Age 113:458 S 19 '42

Trucks best trains on 1,500-mile run with perishables; Crowley's tractor and Fruehauf all-aluminum trailer fleet run between Binghamton, N.Y. and Miami, Fla. il map Food Ind 14:65-7 Je '42

Views on Buffalo-Detroit trucking. J. B. Eastman. Ry Age 111:960 D 6 '41

War aids merger. Business Week p73-4 Mr 28 '42

WPB restricts motor truck shipping. Oil Paint & Drug Rep 141:57 Ap 27 '42

Which is scarcer—steel or rubber? Ry Age 112:1107 Je 6 '42

See also

Highway transportation

Railroads—Motor vehicle auxiliaries

Tank trucks

also Associated transport, inc.

Accounting

W. H. Tomkins co. v. Commissioner; depreciation of auto trucks; deduction of the cost of the initial set of tires in the year of acquisition. J. L. Dohr. J Account 74:287-8 S '42

MOTOR trucks in freight service—*Continued*

Rates

Eastern oil truckers, hard hit by the war, take their case to Price Chief Henderson. Nat Pet N 34:30 Jl 15 '42
I.C.C.'s split personality on rates. Ry Age 111:940 D 6 '41
OPA freezes hauling rates of contract motor carriers. Nat Pet N 34:24 Jl 1 '42
Tank truck rates are GMPR exempt. Oil Paint & Drug Rep 142:5+ S 7 '42

MOTOR trucks in lumbering

Motorizing B.C. logging. Pulp & Pa of Can 43:32 Ja '42
Transporting pulpwood. Paper Tr J 115:40 Jl 23 '42

MOTOR trucks in mining

New shovel and trucks; Fidelity no. 11 strip mine. il Coal Age 47:82-4 Ap '42
Some unique dump-truck placers in Colorado. H. W. C. Prommel. il Eng & Min J 143:48-9 Ja '42
Strip mine haulage in eastern Ohio. A. H. Henry. Min Cong J 28:52-3 Je '42
Transporting ore in the Philippine Islands; with cost data. W. F. Boericke. il Min Cong J 28:44-7 Ja '42
Truck haulage in Mesabi open-pit practice. R. W. Whitney. il Eng & Min J 143:52-5 Je '42
Trucks in open pit mining observe "safety first" on the Mesabi range. S. E. Sullivan. il Min Cong J 28:22-4 O '42

MOTOR trucks in repair service

Application of motor transportation to the gas industry from the operating engineer's viewpoint. A. C. Cherry. Am Gas Assn Proc 1941:624-6
Cable testing on site; Birmingham's mobile equipment. il Elec R (Lond) 129:709 D 19 '41
Canadian utility designs two trucks. il Elec W 117:1682 My 16 '42
High-rise tower truck. il Transit J 85:465 D '41
Innovations feature Northwestern truck. il Elec W 117:1216 Ap 4 '42
Line truck designed for variety of uses. W. E. Seabright. il Elec W 117:831 Mr 7 '42
Low-cost ladder attachment for truck. il diags Elec W 117:1372 Ap 18 '42
Multi-purpose maintenance oil truck. il diag Elec W 117:1864-5 My 30 '42
Repair truck for outlying districts. il Elec W 117:836 Mr 7 '42
Sewer service and maintenance; radio equipped service and maintenance truck. E. P. Decher. il Water Works & Sewerage 89:sup172-4 Je '42
Truck helps field transformer repair. S. J. Sickel. il Elec W 118:1264-5 O 17 '42
Vacuum-controlled attachments for conventional winch for back filling with Morman board. H. L. Henry. diags Gas Age 89:32 Ap 23 '42

MOTOR trucks in selling

Sell and repair appliances from trucks house-to-house; Kansas City power & light company. P. K. Berry. il Elec W 117:2064-5 Je 13 '42
Truck design promotes product nationally; National dairy products corp. il Food Ind 14:68-9 O '42

See also
Exhibits, Traveling

MOTOR trucks in the petroleum industry

Longer service from your automotive equipment. N. Williams. il Oil & Gas J 40:164-6 Ap 30 '42
ODT truck rules concern oil executives. P. Reed. Oil & Gas J 41:27 Je 11 '42

MOTOR trucks in war and army service

War booms demand for motor trucks. W. Gates. il Mag of Wall St 69:317-19+ D 27 '41

See also
Motor trucks, Military

MOTOR trucks on rails

Combined road and rail vehicles. Engineering 154:146 Ag 21 '42
Delivers Auto-Railer train for carrying explosives. il Ry Age 112:962+ My 16 '42
Material handling at shell loading plants; Auto-Railer used both on roadways and rails. W. F. Sherman. il Iron Age 149:62-6 Mr 26 '42
Rides both rails and roads with ease; Auto-Railer. il Comp Air M 47:6772 Je '42

MOTOR vehicles

Marsh buggy important in Louisiana development. Oil & Gas J 40:51 Ja 1 '42
Proceedings of ninth annual meeting of the American association of motor vehicle administrators, New Orleans, La., Sept. 24-26, 1941. 146p Am. assn. of motor vehicle administrators, 839 Woodward bldg, Washington, D.C. '41
Swamp buggy at work; laying natural gas line. H. Miller. il Gas Age 89:44-5+ My 7 '42

See also
Automobiles
Highway transportation
Motor buses
Motor cars (railroad)
Motor trucks
Railroads—Motor vehicle auxiliaries
Road traffic
Tractors
Trailers
Trolley buses

Inspection

Automobile testing stations, Wilmington, and Dover, Delaware. il diag plans Arch Forum 77:71-4 Jl '42
Compulsory inspection; abstract. J. V. Savage. S A E J 49:sup38-40 D '41; 50:19 Ja '42

Law

Equipment requirements for motor vehicles. L. H. Dreisonstok, comp. 1942 ed 140p pa $1.25 Nat. highway users conference, Nat. press bldg, Washington, D.C. '41
State restrictions on motor vehicle sizes and weights. M. W. English, comp. 1942 ed 120p pa $1.25 Nat. highway users conference, Nat. press bldg, Washington, D.C. '41

See also
Automobile laws and regulations
Motor bus lines—Laws and regulations
Motor trucks—Laws and regulations
Traffic regulations

Statistics

Automotive equipment on farms; tabulation. Automotive & Aviation Ind 86:76 Mr 15 '42
Car and truck registry reaching all-time high. M. Ainsworth. Automotive Ind 85:49+ N 15 '41
Distribution of motor-vehicle registrations and tax payments by regions and population groups. R. S. Lewis and H. L. Baker. map Pub Roads 22:235-58+ Ja '42
Estimated motor-fuel usage and motor-vehicle registration in 1941; tabulation. Pub Roads 23:14 Mr '42
Motor vehicles in Latin America as of Jan. 1st, 1940; tabulation. B. P. Root. Roads & Bridges 80:32 My '42
Motor vehicles registered in Canada as at January 1, 1942; tabulation. Roads & Bridges 80:110 Jl '42
New registrations; tabulated by makes, by manufacturing groups, by month, 1931-1941, by years, 1895-1941; by population groups. Automotive & Aviation Ind 86:70-4 Mr 15 '42
State motor-vehicle registrations, 1941; tabulated by states. Pub Roads 23:101 Jl-S '42

Taxation

Accumulated state gasoline taxes and motor vehicle fees collected since first levy through 1940. Nat Pet N 33:32 D 10 '41
As gas goes; so go tax revenues. M. Ainsworth. Automotive & Aviation Ind 86:17-19 Je 1 '42
Automotive taxes; tabulations. Automotive & Aviation Ind 86:77 Mr 15 '42
Collect $1,327,000,000 in taxes from highway users in 1940. Roads & Sts 84:65 N '41

MOTOR vehicles—Taxation—*Continued*

Distribution of motor-vehicle registrations and tax payments by regions and population groups. R. S. Lewis and H. L. Baker. map Pub Roads 22:235-58+ Ja '42

How gasoline rationing affects states; importance of automobile use taxes to various states in 1941. J. D. Kelly. Barron's 22:5 Jl 20 '42

Registration fees and special taxes for motor vehicles. W. Y. Fisher, comp. 1942 ed 202p pa $1.25 Nat. highway users conference, Nat. press bldg, Washington, D.C. '41

State motor-vehicle receipts, 1941; tabulated by states. Pub Roads 23:102 Jl-S '42

Testing

Modine's automotive wind tunnel for testing radiators. A. B. Arnold. il plan Automotive Ind 85:42-5 N 15 '41

MOTOR vehicles, Military

Major war products of the automotive industry; illustrations. Automotive & Aviation Ind 87:64-6 O 1 '42

Shift Motor transport service; Ordnance dept. to control unit formerly under Quartermaster corps. Automotive & Aviation Ind 87:48+ Ag 15 '42

Manufacture

Clark equipment co.; new manufacturing facilities; axle and transmission divisions. J. Geschelin. il Automotive & Aviation Ind 87:20-4+ S 1 '42

MOTORS. See Airplane engines; Automobile engines; Diesel engines; Gas and oil engines; Motor bus engines; Motor truck engines

MOTORS, Electric. See Electric motors

MOTTOES

American mottoes and slogans. G. E. Shankle. 183p $1.75 Wilson, H.W. '41

MOUNDS

Irene mound site, Chatham county, Ga. J. Caldwell and C. McCann. 80p bibliog(p80) pa $1.50; to libraries $1.35 Univ. of Georgia press, Athens '41

Morgan Stone mound, site 15, Bath county, Kentucky. W. S. Webb. p223-91 bibliog(p289-91) pa 50c Univ. of Kentucky, Dept. of anthropology and archaeology, Lexington '41

Mt Horeb earthworks, site 1, and the Drake mound, site 11, Fayette county, Kentucky. W. S. Webb. p 139-218 bibliog(p216-18) pa 50c Univ. of Kentucky, Dept. of anthropology and archaeology, Lexington '41

MOUNDS (geology)

Mima mounds turn out to be artificial; formed by pocket gophers; abstract. W. W. Dalquest and V. B. Scheffer. Sci Am 166:247-8 My '42

MOUNTAIN roads

Blue Ridge parkway nears completion. il Roads & Sts 85:44, 47-8 Ap '42

Building the Angeles Forest highway. E. A. Burt. il map Civil Eng 12:147-9 Mr '42

Five-mile road job requires 700,000 cu. yd. excavation; State highway 80, California. il Roads & Sts 85:44-6 O '42

Maintenance problems of California Coast highway. T. H. Dennis. il Roads & Sts 85:32-4 Jl '42

Metal crib retaining wall holds fill on mountainside. il Roads & Sts 84:50-1 D '41

Roadbuilding in the Pennsylvania mountains; illustrations. Comp Air M 46:6587-8 N '41

MOUNTAIN sickness. See Altitude, Influence of

MOUNTAIN streams

New gaging station for mountain streams; Forest Service installation combines San Dimas flume with two broad-crested weirs. H. G. Wilm. il diags Civil Eng 12:548-9 O '42

MOUNTAINEERING

American alpine club's handbook of American mountaineering. K. A. Henderson. 239p $2.75 Houghton '42

High conquest; the story of mountaineering. J. R. Ullman. 334p bibliog(p319-27) $3.75 Lippincott '41

Ten great mountains. R. L. G. Irving. 213p $3.75 Dutton '40

MOUNTAINS

Mountains. C. L. Fenton and M. A. Fenton. 160p $2.50 Doubleday '42

Mountains of the world; stories and pictures of the great mountain ranges of the world. F. R. Elms. 80p $2 Albert Whitman & co, Chicago '41

New interpretation of some laccolithic mountains and its possible bearing on structural traps for oil and gas. C. B. Hunt. bibliog diags Am Assn Pet Geologists Bul 26:197-203 F '42

See also

Folds (geology)
Geology
Volcanoes

MOUTH

Diseases

Dental services in industry; observations on their effects in the reduction of absenteeism. H. A. Hooper. bibliog Ind Med 11:157-62 Ap '42

Mouth lesions in monkeys associated with a chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C. H. F. Fraser and N. H. Topping. Pub Health Rep 57:968-73, pl 1-3 Je 26 '42

MOVERS

Movers team up; four van lines establish information office in Chicago. Business Week p22+ S 26 '42

U.S. on the move; New York's annual orgy. Business Week p55 O 10 '42

Advertising

Sales tool works full time; advertising material, interesting and informative, in looseleaf binder; Greyvan lines, inc. il Ptr Ink 200:17 Ag 14 '42

MOVING

Moved without a shutdown; Curtiss-Wright corporation, Airplane division, Buffalo. A. Petzon and H. Rosenberg. il Factory Management 100:88-90+ S '42

So you are going to move? over eighty-five factors involved in moving or selecting original plant sites. G. J. Thomas. J Account 73:235-50 Mr '42

MOVING of structures

Field office goes for a boat ride; New York Tunnel Authority building moved by barges. il diag Eng N 127:905 D 25 '41

Los Angeles moves a steel tower. C. M. Allen. il Power Pl Eng 46:88-9 Ap '42

See also

Electric transformers
—Moving

MOVING picture actors and actresses

Portraiture in Hollywood. S. N. Tess. il Am Phot 36:8-11 Ja '42

Stars and strikes; unionization of Hollywood. M. Ross. 233p bibliog(p221-4) $2.75 Columbia univ. press '41

MOVING picture apparatus

Manufacture

Novel conversion from brewery to film apparatus factory. il Elec R (Lond) 130:163-5 F 6 '42

MOVING picture cameras

Electroplane camera; one element of lens system designed to permit alteration of focal length without change in image size is oscillated electronically; electronic remote control of focus. il diags Electronics 15:44-7 Mr '42

Motion picture facts; what the well dressed camera will wear. A. J. Lockrey. Am Phot 36:43 My '42

Some equipment problems of the direct 16-mm producer. L. Thompson. Soc Motion Picture Eng J 38:94-6 Ja '42

Stop calibration of photographic objectives; principle of null-indicating densitometer adapted to measurement of camera lens iris settings. E. W. Silvertooth. il diag Soc Motion Picture Eng J 39:119-22 Ag '42

MOVING picture film collections

Educational motion pictures and libraries. G. D. McDonald. 183p $2.75 Am. lib. assn, Chicago '42

See also Museum of modern art film library, New York

MOVING picture films

Continuous replenishment and chemical control of motion picture developing solutions. H. L. Baumbach. bibliog Soc Motion Picture Eng J 39:55-66 Jl '42

Laboratory modification and procedure in connection with fine-grain release printing. J. R. Wilkinson and F. L. Eich. il diags Soc Motion Picture Eng J 38:56-65 Ja '42

Motion picture facts; what film to use. A. J. Lockrey. il Am Phot 36:46-7 Ag '42

Practical aspect of edge-numbering 16-mm film. H. A. Witt. Soc Motion Picture Eng J 39:67-9 Jl '42

Precision direct-reading densitometer. M. H. Sweet. bibliog il diags Soc Motion Picture Eng J 38:148-70 F '42; Abstract. Electronics 15:68 Jl '42; Discussion. Soc Motion Picture Eng J 38:171-2 F '42

Processing of Eastman 1302 fine grain release positive in Hollywood. V. C. Shaner. diag Soc Motion Picture Eng J 38:66-73 Ja '42

Production and release applications of fine-grain films for variable-density sound recording. C. R. Daily and I. M. Chambers. il diag Soc Motion Picture Eng J 38:45-55 Ja '42

Review of the question of 16-mm emulsion position. W. H. Offenhauser, jr. Soc Motion Picture Eng J 39:123-34 Ag '42

Some equipment problems of the direct 16-mm producer. L. Thompson. Soc Motion Picture Eng J 38:90-2 Ja '42

See also

Slide films

Delivery

Specialization of film delivery. J. H. Vickers. Soc Motion Picture Eng J 37:623-8 D '41

Standards

Recommended practices of the Society of motion picture engineers. il diags Soc Motion Picture Eng J 38:403-56 My '42

Report of the standards committee; Designation of direction of winding of 16-mm film perforated along one edge and Edge-numbering interval for 16-mm motion picture film. diags Soc Motion Picture Eng J 38:87-8 Ja '42

MOVING picture industry

Hollywood in uniform. il Fortune 25:92-5+ Ap '42

Hollywood; the movie colony, the movie makers. L. C. Rosten. 436p bibliog(p415-26) $4 Harcourt '41

News by commodities. Published in Foreign commerce weekly

Advertising

What builds the box office "buy" for a typical motion picture? R. M. Gillham. il Sales Management 49:20-2 D 1 '41

Finance

British film finance. Economist 141:536-7 N 1 '41

Loew's in war and peace. Barron's 22:13 Jl 20 '42

Movie sterling; relaxation of terms for Hollywood. Economist 141:538 N 1 '41

Speculative survey of Warner Bros. P. Dobbs. il Mag of Wall St 71:82-3+ O 31 '42

Warner brothers debenture 6s, 1948; increase in earnings improve position of bonds. Comm & Fin Chr 154:1322 D 4 '41

Why movie company prospects look good. Barron's 22:12 Ja 26 '42

Materials

Motion pictures; world-role in time of crisis; effect on export and import trade; materials required. N. D. Golden. il For Comm W 5:3-5+ D 6 '41

Regulation

Minnesota's movie law. Business Week p59 Ap 25 '42

Movie pact flops; vital portions of famous decree now inoperative; block booking on way back. Business Week p33-4 Je 20 '42

Movie relief; court lifts consent decree provisions temporarily so that producers can sell in Minnesota. Business Week p44 N 29 '41

President Roosevelt limits restrictions on films. Comm & Fin Chr 155:232 Ja 15 '42

Securities

How good are the movies? P. Dobbs. il Mag of Wall St 70:134-5+ My 16 '42

Motion picture companies have bright prospect; position of leading stocks. Mag of Wall St 69:557 F 21 '42

Movie profit outlook optimistic; position of leading motion picture stocks. il Mag of Wall St 70:549-50+ S 5 '42

Standards

Recommended practices of the Society of motion picture engineers. il diags Soc Motion Picture Eng J 38:403-56 My '42

Statistics

Business movie industry; what it is and who uses it. D. L. Wardell. il Dun's R 49:24-30 O '41

Argentina

Argentina produces many films in Spanish language. For Comm W 9:27-8 O 24 '42

Canada

Motion picture theatres in Canada, 1940. 33p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Chile

Plans of Chilean producing company. For Comm W 7:31 Je 20 '42

France

French motion-picture industry faces forbidding obstacles. For Comm W 8:46 Jl 18 '42

Great Britain

British film finance. Economist 141:536-7 N 1 '41

Latin America

Latin film fare; motion pictures enlisted in job of selling the U.S.A. to hemisphere neighbors and vice versa. Business Week p20+ Ja 10 '42

Mexico

Mexico's motion pictures. il For Comm W 8:8+ Jl 25 '42

Persia

News by commodities. For Comm W 6:21 Ja 17; 22 Ap 4 '42

Russia

Technical progress in the motion picture industry of the Soviet Union. G. L. Irsky. Soc Motion Picture Eng J 38:532-40 Je '42

Salvador

News by commodities. For Comm W 6:20 Mr 14 '42

Spain

News by commodities. For Comm W 6:21-2 Ja 17 '42

Turkey

German films have reappeared since the outbreak of the war; U.S. films. For Comm W 6:28 Ja 24 '42

United States

Amusement industry in wartime; motion pictures outstanding. Index 22 no 1:21-2 [Mr] '42

Motion pictures; world-role in time of crisis; effect on export and import trade; materials required. N. D. Golden. il For Comm W 5:3-5+ D 6 '41

MOVING picture industry—United States—*Cont.*

Movie pact flops; vital portions of famous decree now inoperative; block booking on way back. Business Week p33-4 Je 20 '42

Retake for war; reducing consumption of film. Business Week p38+ Jl 25 '42

Training film activities of the Signal corps; aid of industry. D. Olmstead. il For Comm W 5:6-7+ D 13 '41

Uruguay

Uruguay's motion picture business. N. D. Golden. For Comm W 8:11+ S 5 '42

MOVING picture laboratories

Motion picture laboratory practices. J. R. Wilkinson. bibliog il Soc Motion Picture Eng J 39:166-85 S '42

MOVING picture machines

Constant-torque friction clutch for film take-up. W. Hotine. diag Soc Motion Picture Eng J 38:256-61 Mr '42

Reel winder is tension controlled; patent assigned to the Bell and Howell co. diag Machine Design 14:142+ Ag '42

Two-stage brake prevents coasting of film; Bolex motion picture film winder. il diags Product Eng 13:257-8 My '42

MOVING picture photography

American cinematographer hand book and reference guide. J. J. Rose. 4th ed enl & rev 251p $3.50 Am. soc. of cinematographers, Hollywood, Calif. '42

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42

Cinematography in the Hollywood studios (1942). J. W. Boyle; C. G. Clarke; W. Hoch. il Soc Motion Picture Eng J 39:83-108 Ag '42

Electroplane camera; one element of lens system designed to permit alteration of focal length without change in image size is oscillated electronically; electronic remote control of focus. il diags Electronics 15:44-7 Mr '42

IR system; an optical method for increasing depth of field. A. N. Goldsmith. il diags Soc Motion Picture Eng J 38:3-35 Ja '42; Abstracts. Electronics 14:44+ D '41; Photo Tech 3:54-5+ D '41

Over pine mountain trails; making moving picture of lumbering for Dierks lumber company. L. Thompson. il Am Phot 36:36-7 F '42

Photographing of 16-mm kodachrome short subjects for major studio release. L. W. O'Connell. Soc Motion Picture Eng J 39:314-16 N '42

Production of 16-mm motion pictures for television projection. R. B. Fuller and L. S. Rhodes. diag Soc Motion Picture Eng J 39:195-201 S '42

Stop calibration of photographic objectives; principle of null-indicating densitometer adapted to measurement of camera lens iris settings. E. W. Silvertooth. il diag Soc Motion Picture Eng J 39:119-22 Ag '42

See also

Moving picture cameras

Moving picture films

Bibliography

Current literature of interest to the motion picture engineer. Soc Motion Picture Eng J 38:103 Ja '42 [cont monthly]

Industrial applications

Aids for analyzing high-speed action. E. M. Watson. il Gen Elec R 44:549-57 O '41; Same cond. Electrician 128:95-7 F 6 '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

Rolling forward; new method in timing of motion pictures aids industrial training. il Business Week p68 Jl 11 '42

Shutters and cutters; high-speed motion-picture photography used in study of machine-tool cutting edges. B. L. McKenzie. il Sci Am 166:60-2 F '42

Visualizing wing stall characteristics; use of moving pictures. il Aero Digest 41:208 S '42

See also

Moving pictures in industry

Lighting

Analysis of the application of fluorescent lamps to motion picture photography. R. Rosenberg. Soc Motion Picture Eng J 38:173-9 F '42

Carbon arc, a valuable industrial tool. W. C. Kalb. bibliog il Elec Eng 61:Trans 581-5 Ag '42

Report of the studio lighting committee. Soc Motion Picture Eng J 38:281-3 Mr '42

MOVING picture photography, Amateur

Established factors for reversal film. E. L. Miller. Am Phot 36:34-5 S '42

How to use a movie camera. 59p 50c Ver Halen publications, 6060 Sunset blvd, Hollywood, Calif. '40

Motion picture facts. A. J. Lockrey. il Am Phot 36:42 Ja; 43 Mr; 46-7 Ag '42

MOVING picture projection

Color of light on the projection screen. M. R. Null, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:219-28 Mr '42

Motion picture projection and sound pictures. J. R. Cameron. 8th ed 751p $8.50 Cameron pub. co. Woodmont, Conn. '42

New 13.6-mm carbons for increased screen light. M. T. Jones, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:229-34 Mr '42

Study of flicker in 16-mm picture projection. E. E. Masterson and E. W. Kellogg. bibliog diags Soc Motion Picture Eng J 39:232-44 O '42

See also

Moving picture theaters—Projection rooms

MOVING picture projectors

Acoustic performance of 16-millimeter sound motion-picture projectors. W. F. Snyder. bibliog pl diag U S Nat Bur Stand Circ C439:1-56; pa 15c Supt. of doc. '42

Carbon arc, a valuable industrial tool. W. C. Kalb. bibliog il Elec Eng 61:Trans 581-5 Ag '42

Carbon situation and copper conservation. E. A. Williford. Soc Motion Picture Eng J 39:3-5 Jl '42

Developments in time-saving process projection equipment; projection upon translucent screen for background purposes. R. W. Henderson. il Soc Motion Picture Eng J 39:245-57 O '42

Electronic control for carbon arcs used in motion picture theater projection service. W. Flaherty. il diag Electronics 15:65-6+ Mr '42

Performance requirements for sound motion picture projectors. Franklin Inst J 234:387 O '42

Progress in motion picture industry; report of the progress committee, 1940-41. Soc Motion Picture Eng J 39:303-6 N '42

Recent developments in projection mechanism design. E. Boecking and L. W. Davee. il diags Soc Motion Picture Eng J 38:262-80 Mr '42

Some equipment problems of the direct 16-mm producer. L. Thompson. Soc Motion Picture Eng J 38:99-101 Ja '42

Wartime conservation in theater projection. Soc Motion Picture Eng J 38:515-25 Je '42

Testing

Optical and mechanical characteristics of 16-millimeter motion-picture projectors. R. E. Stephens. diags pl U S Nat Bur Stand Circ C437:1-22; pa 10c Supt. of doc. '42

MOVING picture screens

Color of light on the projection screen. M. R. Null, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:219-28 Mr '42

MOVING picture screens—*Continued*

New 13.6-mm carbons for increased screen light. M. T. Jones, W. W. Lozier and D. B. Joy. bibliog Soc Motion Picture Eng J 38:229-34 Mr '42

Seeing is believing; Hollywood using improved plastic screens for process stages. K. Saile. il Mod Plastics 20:58+ O '42

MOVING picture sound recording

Distortion tests by the intermodulation method. J. K. Hilliard. diags Inst Radio Eng Proc 29:614-20 D '41

Elimination of relative spectral energy distortion in electronic compressors. B. F. Miller. diag Soc Motion Picture Eng J 39:317-23 N '42

Frequency-modulated control-track for movietone prints. J. G. Frayne and F. P. Herrnfeld. diags Soc Motion Picture Eng J 38:111-24 F '42; Abstract. Electronics 15:88+ Mr '42

Future of fantasound. E. H. Plumb. Soc Motion Picture Eng J 39:16-21 Jl '42

New dichroic reflector and its application to protocell monitoring systems. G. L. Dimmick. diags Soc Motion Picture Eng J 38:36-44 Ja '42

Prescoring and scoring. B. B. Brown. Soc Motion Picture Eng J 39:228-31 O '42

Re-recording sound motion pictures. L. T. Goldsmith. bibliog Soc Motion Picture Eng J 39:277-83 N '42

Sound in motion pictures; progress in the methods and equipment. N. Levinson. il Electronics 14:16-19+ Ja; 37-9+ F '41; Same. Soc Motion Picture Eng J 38:468-82 My '42

Stabilized feedback light-valve. W. J. Albersheim and L. F. Brown. il diags Soc Motion Picture Eng J 38:240-54 Mr '42; Abstract. Electronics 15:84+ My '42; Discussion. Soc Motion Picture Eng J 38:255 Mr '42

Technique of production sound recording. H. G. Tasker. bibliog il diags Soc Motion Picture Eng J 39:213-27 O '42

Noise reduction

Design and use of noise-reduction bias systems. R. R. Scoville and W. L. Bell. bibliog il diags Soc Motion Picture Eng J 38:125-47 F '42

Production and release applications of fine-grain films for variable-density sound recording. C. R. Daily and I. M. Chambers. il diag Soc Motion Picture Eng J 38:45-55 Ja '42

MOVING picture studios

Equipment

Progress in motion picture industry; report of the progress committee, 1940-41. Soc Motion Picture Eng J 39:295-303 N '42

See also

Moving pictures—Settings and scenery

Lighting

Report of the studio lighting committee. Soc Motion Picture Eng J 38:281-3 Mr '42

MOVING picture theaters

Compact direct-reading reverberation meter. E. S. Seeley. il diags Soc Motion Picture Eng J 37:557-68 D '41

Remodeled theater; rebuilt as a studio show window; with construction outline. il plans Arch Forum 76:391-5 Je '42

Report of the theater engineering committee. il Soc Motion Picture Eng J 38:74-86 Ja '42

Today theater, Chicago; views, plans, and construction outline. Arch Forum 76:123-5 F '42

Management

Defense program of the motion picture theater. H. Anderson. Soc Motion Picture Eng J 38:526-31 Je '42

Projection rooms

Report of the projection practice sub-committee of the Theater engineering committee; projection room plans. plans Soc Motion Picture Eng J 39:149-65 S '42

Sound control

Experiences in road-showing Walt Disney's Fantasia. W. E. Garity and W. Jones. il diag Soc Motion Picture Eng J 39:6-15 Jl '42

Future of fantasound. E. H. Plumb. Soc Motion Picture Eng J 39:16-21 Jl '42

MOVING pictures

Dynamite at Wake Island; use of explosives in making moving picture. A. R. Boone. il Explosives Eng 20:235-8 Ag '42

Film sense. S. M. Eisenstein. 288p bibliog(p269-81) $3 Harcourt '42

Progress in motion picture industry; report of the progress committee, 1940-41. Soc Motion Picture Eng J 39:294-313 bibliog(p311-13) N '42

Society of motion picture engineers; abstracts of papers for 51st semi-annual convention, Hollywood, Calif. May 4-8. Soc Motion Picture Eng J 38:487-95 My '42

Talking shadows; the way of life in Hollywood. R. Jester. 64p 96c Row, Peterson & co, Evanston, Ill. '42

Technology in the art of producing motion pictures. L. S. Becker. Soc Motion Picture Eng J 39:109-18 Ag '42

See also

Slide films

Documentary films

Cooperation with the film industries in the study of primitive music. C. E. Seashore. Science 96:263-5 S 18 '42

Editing

Cutting and editing of motion pictures. F. Y. Smith. Soc Motion Picture Eng J 39:284-93 N '42

Government use

Business movie industry; what it is and who uses it. D. L. Wardell. il Dun's R 49:24-30 O '41

History

Edwin S. Porter; his contribution to moving pictures. J. E. Abbott and R. Griffith. Soc Motion Picture Eng J 38:546-8 Je '42

International aspects

Latin film fare; motion pictures enlisted in job of selling the U.S.A. to hemisphere neighbors and vice versa. Business Week p20+ Ja 10 '42

Military use

Motion picture camera in the army air forces. G. J. Newhard. Soc Motion Picture Eng J 38:510-14 Je '42

R.A.F. film production unit. For Comm W 8:26 Ag 8 '42

See also

Moving pictures in military education

Moving pictures in naval education

Publicity value

Motion pictures; world-role in time of crisis; effect on export and import trade; materials required. N. D. Golden. il For Comm W 5:3-5+ D 6 '41

Rating

Ratings of motion pictures. Consumers' Research Bul 9:28-9 N '41 [cont monthly]

Setting and scenery

Cinematography in the Hollywood studios (1942); putting clouds into exterior scenes. C. G. Clarke. Soc Motion Picture Eng J 39:92-6 Ag '42

Compressed-air gun used for movie effects. il Comp Air M 47:6768 Je '42

Compressed air in Hollywood; illustrations. Comp Air M 46:6623 D '41

Developments in time-saving process projection equipment; projection upon translucent screen for background purposes. R. W. Henderson. il Soc Motion Picture Eng J 39:245-57 O '42

Seeing is believing; Hollywood using improved plastic screens for process stages. K. Saile. il Mod Plastics 20:58+ O '42

MOVING pictures—*Continued*

Yearbooks

1941-42 international motion picture almanac. T. Ramsaye and M. Quigley, jr, eds. 1104p $3.25 Quigley pub. co, New York '41

MOVING pictures, Amateur

Home movie gadgets. 91p $1 Ver Halen publications, 6060 Sunset blvd, Hollywood, Calif. '40

Producing school movies. E. D. Child and H. R. Finch. 151p bibliog(p139-42) pa $1.50 Nat. council of teachers of English, 211 W. 68th st, Chicago '41

We made a sound, color movie; heat treating hints; produced by Lindberg engineering company. R. C. Onan. il Ind Marketing 26:29-30+ D '41

See also

Moving picture photography, Amateur

MOVING pictures, Colored

Cinematography in the Hollywood studios (1942); technicolor cinematography. W. Hoch. Soc Motion Picture Eng J 39:96-108 Ag '42

Photographing of 16-mm kodachrome short subjects for major studio release. L. W. O'Connell. Soc Motion Picture Eng J 39: 314-16 N '42

16-mm color enlarged to 35-mm; Cinecolor, inc. Kodachrome copying process. S. N. Tess. il Photo Tech 3:17-19+ N '41

See also

Television—Color

MOVING pictures, Talking

Acoustic performance of 16-millimeter sound motion-picture projectors. W. F. Snyder. bibliog pl diag U S Nat Bur Stand Circ C439:1-56; pa 15c Supt. of doc. '42

Development of the sound-film. J. E. Abbott. Soc Motion Picture Eng J 38:541-5 Je '42

Mechanized muse. M. Kennedy. 52p pa 2s G. Allen & Unwin, London '42

Motion picture projection and sound pictures. J. R. Cameron. 8th ed 751p $8.50 Cameron pub. co, Woodmont, Conn. '42

Sound motion pictures; recording and reproducing. J. R. Cameron. 3d ed rev & enl 414p $7.50 Cameron pub. co, Woodmont, Conn. '39

Technology in the art of producing motion pictures. L. S. Becker. Soc Motion Picture Eng J 39:109-18 Ag '42

See also

Moving picture sound recording

Moving picture studios

Animated cartoons

Experiences in road-showing Walt Disney's Fantasia. W. E. Garity and W. Jones. il diag Soc Motion Picture Eng J 39:6-15 Jl '42

Walt Disney: great teacher; his films for war are revolutionizing the technique of education. il Fortune 26:90-5+ Ag '42

MOVING pictures in advertising

Ad movie splurge. Business Week p66-7 D 13 '41

Advertising campaign that was bombed out of existence and came to life; Allis-Chalmers moving picture and brochure for customers, stockholders and employees. A. R. Tofte. Ptr Ink 199:59-60 Je 5 '42

Business films in a nation at war. R. M. Cronin. il Ptr Ink 198:16-17+ Mr 27 '42

Business movie industry; what it is and who uses it. D. L. Wardell. il Dun's R 49:24-30 O '41

Films get try-out as public relations medium. Ry Age 113:14 Jl 4 '42

Full color talking motion picture presented by Better light-better sight bureau. Edison Elec Inst Bul 9:500+ D '41

How Allis-Chalmers is meeting its wartime advertising task; elaborate brochure and sound motion picture augment product campaigns. G. J. Callos. il Ind Marketing 27: 26-7+ My '42

Lights! camera! action! sell better health; motion picture, paid for by Swift & co, sponsored by government. il Ptr Ink 199: 16-17 Ap 24 '42

Modern kitchen bureau movie geared to war conditions. il Edison Elec Inst Bul 10:33 Ja '42

Motion picture films; why Aetna companies established their own producing unit. S. F. Withe. East Underw 42:29 D 5 '41

Movie of bomber attacking miniature plant sells air conditioning. W. R. Mason. il Ind Marketing 27:26-7+ Je '42

On location at the plumbing movie. il Dom Eng 160:40-1+ Jl '42

Over pine mountain trails; making moving picture of lumbering for Dierks lumber company. L. Thompson. il Am Phot 36:36-7 F '42

Pepperell film sells conservation, not goods, to public. Sales Management 51:53 Ag 15 '42

Sales sound films exploited in double feature; Hotpoint's all-electric kitchens. il Ptr Ink 198:24-5+ Ja 16 '42

Sound film sells conservation; Pepperell's new movie. il Ptr Ink 200:20-1 Ag 21 '42

This plastic age, new motion picture. il Mod Plastics 19:59+ My '42

We made a sound, color movie; heat treating hints; produced by Lindberg engineering company. R. C. Onan. il Ind Marketing 26:29-30+ D '41

See also

Slide films

MOVING pictures in education

Audio-visual aids to schools, colleges, churches, and adult study groups. Univ of North Carolina Ext Bul v 21, no 1:1-30 '41

Audio-visual handbook. E. C. Dent. 4th ed 227p bibliog(p199-227) $1.75 Soc. for visual education, 100 E. Ohio st, Chicago '42

Educational motion pictures and libraries. G. D. McDonald. 183p bibliog(p173-6) $2.75 Am. lib. assn, 520 N. Michigan av, Chicago '42

Focus on learning; motion pictures in the school. C. F. Hoban, jr. 172p $2 Am. council on education, Washington, D.C. '42

Producing school movies. E. D. Child and H. R. Finch. 151p bibliog(p139-42) pa $1.50 Nat. council of teachers of English, Chicago '41

Selected educational motion pictures; a descriptive encyclopedia. 372p $3 Am. council on education, Washington, D.C. '42

Walt Disney: great teacher; his films for war are revolutionizing the technique of education. il Fortune 26:90-5+ Ag '42

Catalogs

Educational film catalog; two year supplement (1940-1941) to the second edition, 1939. 214p Wilson, H.W. '42 [Quarterly and semi-annual supplements, April, July and October]

MOVING pictures in employee training. See Moving pictures in industry

MOVING pictures in industry

Business films in a nation at war. R. M. Cronin. il Ptr Ink 198:16-17+ Mr 27 '42

Business movie industry; what it is and who uses it. D. L. Wardell. il Dun's R 49: 24-30 O '41

Color film shows inside of arc welding to speed training. il Steel 110:45 Ap 27 '42

Determining tapping temperatures by the spoon test; training open-hearth crews facilitated by moving picture camera. A. G. Arend. il Steel 111:104, 108+ Jl 6 '42

Films cut learning time. il Factory Management 100:104 N '42

Grinding and setting metal-turning cutters; Warner & Swasey uses moving picture for instruction. il diags Aero Digest 40:192, 195-6 My '42

Inside of arc welding; all-color sound movie made available by General electric co. constitutes complete course in technique. il Power Pl Eng 46:58-9 Je '42

Maintenance training with movies; Bell aircraft corporation. D. G. Forman. il Aviation 41:207-8+ Ag '42

MOVING pictures in industry—*Continued*

Movie training now available for lathe operators. Sci Am 166:14-15 Ja '42

Movies without stroboscopic action; training machine operators. il Am Mach 86:699-700 Je 25 '42

New training films show aluminum fabrication details. il Steel 111:60 S 28 '42

Production of industrial motion pictures. L. Thompson. Soc Motion Picture Eng J 39: 135-41 Ag '42

Some equipment problems of the direct 16-mm producer. L. Thompson. Soc Motion Picture Eng J 38:89-102 Ja '42

Sound film shows proper grinding, setting of tools. il Steel 110:70 Ap 13 '42

Story of evolution of Ætna films since genesis of enterprise in 1934. S. F. Withe. East Underw 43:34 Jl 3 '42

Training films for defense workers. Am Business 11:16 D '41

U. S. Education bureau produces sound films to assist potential and employed defense workers. Power 86:149a-149b F '42

Warner & Swasey motion picture on the grinding and setting of cutting tools. il Mach 58:156-7 My '42

Work simplification, essential to defense; training employees by use of moving pictures. A. H. Mogensen. Soc Motion Picture Eng J 38:295-9 Mr '42

See also Moving picture photography—Industrial applications

MOVING pictures in military education

Training film activities of the Signal corps. D. Olmstead. il For Comm W 5:6-7+ D 13 '41

MOVING pictures in naval education

Navy's use of motion picture films for training purposes. W. Exton, jr. Soc Motion Picture Eng J 38:501-9 Je '42

MOVING pictures in safety education

Making school movies, with special emphasis on the production of films on traffic safety. W. G. Hart and R. Wenger. 56p pa 50c Bur. of educational research, Ohio state univ, Columbus '41

Plumbing industry motion picture; synopsis of story to educate public on dangers of back-siphonage. Dom Eng 159:37+ Ap '42

MOVING pictures in war

Defense program of the motion picture theater. H. Anderson. Soc Motion Picture Eng J 38:526-31 Je '42; Same. Weekly Underw 147:1314-15+ D 5 '42

Mobile units in United Kingdom; celluloid circus of Britain's war effort. For Comm W 9:27-8 O 10 '42

See also

Moving pictures—
Military use

MOVING vans

See also

Movers—Advertising

MOWING machines

Multiple mower keeps grass on air fields in proper trim. A. Klemin. il Sci Am 166: 255 My '42

MOYER, Laurence S. 1907-1942

Sketch. W. Seifriz. Science 96:103-4 Jl 31 '42

MOZAMBIQUE

Charter company area taken over by Portuguese government. For Comm W 9:20 O 3 '42

See also

Railroads—
Mozambique

Commerce

Foreign trade in 1940. For Comm W 5:24 N 15 '41

Economic conditions

News by countries. For Comm W 8:20 Jl 18 '42

MUCILAGE

Studies on seed mucilages; the seed mucilage of plantago arenaria. W. A. G. Nelson and E. G. V. Percival. Chem Soc J p58-61 Ja '42

MUCINS

Use of mucin in experimental infections of mice with vibrio cholerae. J. J. Griffitts. Pub Health Rep 57:707-10 My 8 '42

MUCOIDS

Nature of the carbohydrate residue in ovomucoid; hydrolysis of the methylated carbohydrate residue. M. Stacey and J. M. Woolley. Chem Soc J p550-5 S '42

MUD

Flow of solids in piping; practical data on pumping and piping sludges, muds and suspensions. H. E. Babbitt and D. H. Caldwell. bibliog diags Heating-Piping 14: 423-7, 491-4 Jl-Ag '42

Removing mud pockets from filled ground. il Eng N 129:423 S 24 '42

Resistance of soft fill to static wheel loads. W. W. Pagon. il map Am Soc C E Proc 68:237-54 F '42

MUD fluids. See Petroleum—Mud fluids

MUD jacking

Double-barreled economy; correction of pumping joints conserves both pavement and tires. J. W. Poulter. il Roads & Sts 85: 49-51 S '42

Use of mud jack in strengthening concrete pavement. J. W. Poulter. Am Concrete Inst J 13:475-6 Ap '42

MUD Mountain dam

Permeability of Mud Mountain Dam core material. A. S. Cary, B. H. Walter and H. T. Harstad. diag Am Soc C E Proc 68:1089-98 S '42; Discussion. 68:1843-6 D '42

MUD polygons

Some types of polygonal surface markings in Spitsbergen. O. Gatty, W. L. S. Fleming and J. M. Edmonds. bibliog Am J Sci 240:81-92 F '42

MUELLER, Herman, 1854-1941

Charter member of the American ceramic society. por Am Cer Soc J (Bul) 21:1-3 Ja 15 '42

MULLITE

Catalytic mullitization of kaolinite by metallic oxide. C. W. Parmelee and A. R. Rodriguez. bibliog il Am Cer Soc J 25:1-10 Ja '42

MULTIPLE shift operation. See Hours of labor—Shift schedules

MULTIPORE. See Rubber, Expanded

MUNICIPAL accounting

Governmental cost accounting in the Los Angeles area; abstract. I. Tenner. Am Water Works Assn J 34:447-8 Mr '42

Municipal accounting; principles and procedure. L. Morey and O. W. Diehl. 415p bibliog(p403-7) $4.50 Wiley '42

Municipal budget procedure and budgetary accounting. 100p pa $1 Municipal finance officers assn. of the U.S. and Canada, 1313 E. 60th st, Chicago '42

MUNICIPAL automobiles. See Automobiles, Municipal

MUNICIPAL bonds

Assails proposed federal tax on income from municipal securities. A. J. Tobin. Comm & Fin Chr 154:1450 D 11 '41

Bid-asked disclosure rule declared detrimental to municipal securities. Comm & Fin Chr 156:1526+ O 29 '42; Same abr. Inv Banking 13:38-40 D '42

Buying municipals in wartime. G. C. Cummin. Barron's 22:9 Ag 10 '42

Challenges authority of SEC to apply disclosure rule to municipal bond field. L. H. Boren. Comm & Fin Chr 156:1250+ O 8 '42

Directory of municipal bond dealers of the United States, revised to July 1, 1941. 1941-1942 ed 381p pa 50c Bond buyer, New York '41

Federal taxation of municipal opposed. F. LaGuardia. Comm & Fin Chr 156:465 Ag 6 '42

Halsey, Stuart surveys mid-year municipal trend. Comm & Fin Chr 156:101 Jl 9 '42

How war affects municipals. J. D. Kelly. Barron's 22:22 Ja 12 '42

IBA municipal securities committee, annual report. Comm & Fin Chr 154:1448 D 11 '41

MUNICIPAL bonds—*Continued*

Lower income groups buying tax exempts. J. D. Kelly. Barron's 21:18 N 17 '41

Municipal bond market. Bankers M 145:67-8 Jl '42

Municipal bond sales in December and for the year 1941. Comm & Fin Chr 155:148-9 Ja 10 '42

Municipal bond tax proposal seen threat to state autonomy. J. A. White. Comm & Fin Chr 155:1129+ Mr 19 '42

Municipal news and notes; opposition to Morgenthau's proposal to tax state and municipal securities. Comm & Fin Chr 155: 936 Mr 5 '42

Municipal news; reaction to President Roosevelt's recommendations that state and municipal bond tax exemption be ended. Comm & Fin Chr 155:1696 Ap 30 '42

Municipal security analysis; how the Municipal advisory council of Michigan protects. R. T. Purdy. Trusts & Estates 73: 658-9 D '41

Municipals. 108p $1 Federal deposit insurance corp, Washington, D.C. '42; Review. Pub Util 29:510-12 Ap 9 '42

Municipals hit record high in 1941. S. W. Parke. Comm & Fin Chr 155:104+ Ja 8 '42

Outlook for tax exemption for municipals. H. G. Guthmann and G. Schnur. Barron's 22:18 Ag 3 '42

Pennsylvania law says farewell to long-term bond issues. Comm & Fin Chr 155:8 Ja 1 '42

Philadelphia effects big saving in bond refinancing. Comm & Fin Chr 155:840 F 26 '42

Philadelphia saves $18,000,000 interest by refunding. Comm & Fin Chr 156:1085 S 24 '42

Price disclosure rule would handicap local governments in borrowing operations, says IBA. Comm & Fin Chr 156:1698, 1708-9 N 12 '42

Proposed SEC bid and asked prices disclosure rule held harmful to N.Y. state and municipal financing. Comm & Fin Chr 156:1440 O 22 '42

Review and forecast of municipal bond market. L. S. Lebenthal. Comm & Fin Chr 155:463 Ja 29 '42

Sees tax on municipals as unconstitutional. A. J. Tobin. Comm & Fin Chr 155:439 Ja 29 '42

State supervision of local debt administration. Comm & Fin Chr 155:840 F 26 '42

Twenty billion dollars on the spot; market effects of possible taxation of income from state and municipal bonds. J. S. Williams. Mag of Wall St 69:534-6+ F 21 '42

White's Analysis of municipal bonds. J. A. White. $5 J. Austin White, Union Central bldg, Cincinnati '42; Review. Comm & Fin Chr 156:888 S 10 '42

MUNICIPAL buildings

City hall-fire station-police station, Chickasha, Okla. il plans Arch Rec 90:61 D '41

Hill, N.H. recreated; a precedent for planners. A. Solow. il plans Arch Rec 90:52-3 N '41

War needs community facilities. il diags plans Arch Rec 91:47-62 My '42

See also

Fire houses
Health centers
Public buildings

Cost

Municipal building costs, New York city, 1941. Eng N 128:720 Ap 23 '42

MUNICIPAL charters

Model city charter. 5th ed rev 141p pa $1 Nat. municipal league, New York '41

MUNICIPAL corporations

Cases and materials on municipal corporations. C. W. Tooke and J. A. McIntire. 3d ed 843p lea $6.50 Foundation press, Chicago '42

Cases on municipal corporations. M. Seasongood. 2d ed 876p $6.50 Callaghan '41

MUNICIPAL employees

Better protection for municipalities under the Workmen's compensation act. J. Harold. Roads & Bridges 80:84 Mr '42; Same. Water & Sewage 80:106 Ap '42

Employment and pay rolls in state and local governments, 1941. Monthly Labor R 53: 1168-71 N '41

Who is the labor boss in the publicly owned utilities? A. M. Cooper. Pub Util 28:749-54 D 4 '41

See also

Firemen
Police
Waterworks—Employees

Salaries

Cost-of-living salary plans for municipal employees. J. M. Leonard and R. Mohaupt. 51p pa 50c Detroit bur. of governmental research, 5135 Cass av, Detroit '42

Wage and salary increases for municipal employees, 1941-42. Monthly Labor R 54:1017-19 Ap '42

See also

Police—Salaries

MUNICIPAL engineering

Action on the municipal front. E. J. Cleary. il Eng N 128:94-6 Ja 15 '42

Long-range engineering planning for Chicago. W. W. DeBerard. il Civil Eng 12:183-6 Ap '42

Municipal public works construction; planning for normal as well as for post-war periods. A. C. Everham. il Civil Eng 12: 266-8 My '42

Proceedings of the first and second annual Conferences of municipal engineers, held at the Agricultural and mechanical college of Texas; first conference, Dec. 4-5, 1940, second conference, Dec. 3-4, 1941. (Bul. 60) 139p Texas engineering exp. station, Agricultural and mechanical college of Texas, College Station '41

San Diego faces 1960's problems today; water supply, sewage disposal, housing, traffic. il Eng N 129:110-13 Jl 16 '42

Water and sewerage design problems in a boomtown area; Danville and Middletown, Iowa. C. M. Stanley. diags Eng N 128:548-50 Ap 9 '42

See also

City planning
Grade crossing elimination
Municipal improvement
Pavements
Public works
Refuse collection
Refuse disposal
Sanitary engineering
Sewage disposal
Sewerage
Snow removal
Street lighting
Streets
Water purification
Water supply
Water supply engineering

MUNICIPAL finance

Buffalo's proposed debt equalization plan. Comm & Fin Chr 154:1432 D 11 '41

Buying municipals in wartime. G. C. Cummin. Barron's 22:9 Ag 10 '42

Changes in municipal financing; abstract. Trusts & Estates 74:88 Ja '42

Cities allowed to build reserve funds. Eng N 129:309 Ag 27 '42

Defense needs cut municipal financing. Comm & Fin Chr 154:1648 D 25 '41

Experiments in methods of municipal analysis; with special application to the 351 cities and towns in the commonwealth of Massachusetts. M. B. Lambie. 306p pa $3.75 Bur. for research in municipal government, Harvard graduate school of public administration, 215 Littauer Center, Cambridge, Mass. '41

Fluctuations in capital outlays of municipalities. H. Wolkind. U S Bur For & Dom Com Economic Ser 10:1-87; pa 15c Supt. of doc. '41

Local governments increase investments in defense bonds. Comm & Fin Chr 154:1320 D 4 '41

Municipal budgets rise with wartime conditions. Eng N 129:630 N 5 '42

Municipal public works construction; planning for normal as well as for post-war periods. A. C. Everham. il Civil Eng 12: 266-8 My '42

MUNICIPAL finance—*Continued*

Municipal treasurer's liability on war bonds. O. C. Peterson. Weekly Underw 147:458 Ag 29 '42

Nation's cities face financial problems. Comm & Fin Chr 155:1936 My 21 '42

Net debt of American cities has dropped. R. Mohaupt. Comm & Fin Chr 155:2296 Je 18 '42

N.Y. state revised local finance law explained. Comm & Fin Chr 155:2384 Je 25 '42

Rising municipal costs. Comm & Fin Chr 154:1208 N 27 '41

State engineering aid to New Mexico municipalities. W. C. Powell. Am Water Works Assn J 34:56-8 Ja '42

State supervision of local borrowing. R. S. Ford and K. S. Goodrich. 41p bibliog(p41) pa 10c Univ. of Michigan, Bur. of government, Ann Arbor '42

State supervision of local finance. W. Kilpatrick. 65p pa $1.25 Public administration service, 1313 E. 60th st, Chicago '41

State supervision of local finance; proceedings of a conference, Dec. 4-6, 1941. 127p $1; to libraries 85c Municipal finance officers assn, 1313 E. 60th st, Chicago '42

State systems of local finance reporting need improvement. Comm & Fin Chr 155:937 Mr 5 '42

Tax institute sponsors regional round tables. Comm & Fin Chr 156:1645 N 5 '42

War seen as aid in local debt picture. J. D. McGoldrick. Comm & Fin Chr 156:1344 O 15 '42

Wartime fiscal policy recommended for cities. Comm & Fin Chr 155:752 F 19 '42

Wartime policies in municipal finance. Comm & Fin Chr 155:1432 Ap 9 '42

See also

Electric plants, Municipal—Finance
Municipal bonds
Municipal buildings—Cost
Municipal taxation
Refuse collection—Finance
Waterworks—Finance

Bibliography

Selected bibliography on long-range capital improvements programming and financing. 5p American soc. of planning officials, 1313 E. 60th st, Chicago '42

MUNICIPAL government

Addresses delivered at the 18th annual conference of the American municipal association, Chicago, Oct. 23-25, 1941. 154p pa $1.50 Am. municipal assn, 1313 E. 60th st, Chicago '41

Growth of a city government. L. D. Upson. 27p Detroit bur. of governmental research, 5135 Cass av, Detroit '42

Investigating municipal administration; a study of the New York city Department of investigation. H. Seidman. 215p bibliog (p197-200) $2.50 Inst. of public administration, 261 Broadway, New York '41

Manual for city and village clerks in Wisconsin. 144p pa $1; to members 50c League of Wisconsin municipalities, 30 E. Johnson st, Madison, Wis. '42

Metropolitan government. V. Jones. 364p bibliog(p343-4) $4 Univ. of Chicago press '42

Municipal administration. S. A. MacCorkle. 406p $1.40; school ed $1.05 Prentice-Hall '42

Municipal public works administration. rev ed loose-leaf $7.50 Inst. for training in municipal administration, 1313 E. 60th st, Chicago '41

Municipal war code of emergency ordinances. Eng N 128:979 Je 18 '42

Municipal year book, 1942. C. E. Ridley and O. F. Nolting, eds. 685p $8.50 International city maangers' assn, 1313 E. 60th st, Chicago '42

Survey finds municipal officials generally competent. Comm & Fin Chr 155:936 Mr 5 '42

Technique of municipal administration. 512p $10 Inst. for training in municipal administration, 1313 E. 60th st. Chicago '40

Urges self-policing for municipalities to guard against centralization of power. B. H. Faulkner. Comm & Fin Chr 155:1323 Ap 2 '42

See also

Cities and towns
London—Politics and government
Municipal charters
Municipal employees
Municipal finance
Municipal liability
Municipal taxation
Police departments

City manager plan

521 cities in U.S. operate under city manager form of government. Comm & Fin Chr 155:1856 My 14 '42

Management methods in city government; a survey of the best administrative practices in council-manager cities. O. F. Nolting. 60p pa $1.50 International city managers' assn, 1313 E. 60th st, Chicago '42

Survey report; abstract. Am Water Works Assn J 34:443-4, 1267-70 Mr, Ag '42

Legal services

Administration of municipal legal services: the Chicago law department. R. W. Siebenschuh. 58p pa $1.50 Public administration service, 1313 E. 60th st, Chicago '42

State relations

State supervision of local borrowing. R. S. Ford and K. S. Goodrich. 41p bibliog(p41) pa 10c Univ. of Michigan, Bur. of government, Ann Arbor '42

State supervision of local finance. W. Kilpatrick. 65p pa $1.25 Public administration service, 1313 E. 60th st, Chicago '41

State supervision of local finance; proceedings of a conference, Dec. 4-6, 1941. 127p $1; to libraries 85c Municipal finance officers assn, 1313 E. 60th st, Chicago '42

MUNICIPAL improvement

City-wide studies; pt. 3, Programming public improvements in the city of New York. Mayor's committee on city planning, New York '42

Community plan builds morale and new market in small town; Port Jervis, New York. il Sales Management 51:30, 32 N 1 '42

Cost of public services in residential areas. F. D. McHugh. diags plans map Am Soc C E Proc 67:991-1022 Je '41; Discussion. 67:1549-52, 1761-2; 68:287-8 O-N '41, F '42

How Brownwood, Texas, handled its preparedness boom. R. McDaniel. il Pub Works 73:21+ My '42

Record survey of buildings needed for civilian health and welfare in war-time production centers; hospitals, schools, municipal facilities, transportation terminals, recreational facilities, and commercial buildings. il Arch Rec 91:37-40 Ja '42

State engineering aid to New Mexico municipalities. W. C. Powell. Am Water Works Assn J 34:56-8 Ja '42

State of the public works and public property of the borough of Princeton, N.J.; excerpts from report to the Mayor and Council. I. R. Riker. il Pub Works 73:20-2 Ag '42

What types of new construction are essential, today? case in point: Portsmouth, N.H. maps Arch Rec 90:44-7 D '41

See also

City planning
Housing
Pavements
Streets

MUNICIPAL insurance. See Insurance—Municipal policies

MUNICIPAL lands

Land-use clinics aid cities in utilization of tax-reverted property in Michigan. Eng N 129:414 S 24 '42

Tax-reverted land for city expansion. Eng N 128:787 My 7 '42

MUNICIPAL liability

Auxiliary firemen covered; liability of Minnesota towns and cities arising out of civilian defense. East Underw 43:36 Ap 3 '42

City held not liable for death of child on sewage disposal plant. Pub Health Rep 57:771-2 My 15 '42

MUNICIPAL liability—*Continued*

Legal responsibility of Minnesota municipalities for polluted water. O. C. Peterson. Am Water Works Assn J 34:37-52 Ja '42

Liability of individuals and municipalities regarding blackout accidents; English experience. E. C. Stiefel. Weekly Underw 146: 1151+ My 23 '42

Municipal tort liability in Virginia. G. A. Warp. 127p bibliog(p 117-22) pa $1 Bur. of public administration, box 1667, Univ. station, Charlottesville, Va. '41

MUNICIPAL officials

Municipal treasurer's liability on war bonds. O. C. Peterson. Weekly Underw 147:458 Ag 29 '42

Directories

Directory of municipal road officials in Canadian cities, towns, counties and townships. Roads & Bridges 80:58-96+ Jl '42

MUNICIPAL ownership

Jonesboro's water works, a successful business; supplies electricity, water and sewerage service. L. M. Rebsamen. Am Water Works Assn J 34:1496-1502 O '42

Municipal trading. Economist 143:380-1 S 26 '42

See also

Electric plants, Municipal

Electric utilities—Municipal ownership

Waterworks—Municipal ownership

MUNICIPAL publications

See also

Municipal reports

MUNICIPAL purchasing. See Purchasing, Municipal

MUNICIPAL reports

Fifteen-foot book shelf; printed reports of the La Guardia administration. Munic Ref Lib Notes [N.Y. Pub. Lib] 28:33-8 My '42

Importance of annual municipal reports as source of information for water and sewage works engineers. Water & Sewage 79: 18+ D '41

MUNICIPAL taxation

Land-tax illusion; fiscal factor in rise and fall of municipal empires. R. L. Hoguet. Trusts & Estates 75:115-18 Ag '42

Local taxation. Trusts & Estates 74:9-10 Ja '42

Ohio court decision affects local units; tax levy outside constitutional 10-mill limitation. Comm & Fin Chr 155:1696 Ap 30 '42

Property tax assessments may decline, tax rates rise by 1943. Comm & Fin Chr 155: 1856 My 14 '42

State and municipal taxes, up or down? R. P. Crawford. Barron's 22:9 O 5 '42

Urges mayors to oppose local tax reductions, asks end of tax exempts. M. S. Eccles. Comm & Fin Chr 155:339 Ja 22 '42

Wage-tax gusher; Philadelphia government embarrassed by yield from much-litigated levy. Business Week p32 Mr 21 '42

Wage tax wins. Business Week p58 O 31 '42

See also

Insurance companies—License tax

Licenses

MUNITION factories

Acid treatment quadruples flow in a war plant water well. il diags Eng N 129:232-4 Ag 13 '42

Army constructs 119-mile railroad at ordnance plant. il Ry Age 112:638-42 Mr 28 '42

Bars construction of non-essential plants. Comm & Fin Chr 155:2216 Je 11 '42

Big arms plant built in congested area. il Eng N 128:842-5 My 21 '42

Building defense plants in England. il diag Manuf Rec 111:24-5+ Jl '42

Chem & Met report on war-time construction in chemical process industries. Chem & Met Eng 49:99-106 Jl '42 [reprints 25 cents]

DPC, stakeholder; agency is outright owner of third of nation's metal-working capacity. Business Week p20+ Ap 11 '42

Defense plant expansion, privately financed, certificates of necessity over $100,000, issued between April 30 and September 15, 1941, grouped according to location of project. Dun's R 49:26 N '41

Factory plant and equipment expenditures over a quarter century. L. J. Chawner. il Dun's R 50:11-15+ O '42

Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42

How an A-E-M contract works; details of architect-engineer manager organization. Eng N 129:179-82 Jl 30 '42

How England utilizes small plants in war work. A. J. Liebling. Steel 110:54-5, 82+ F 9 '42

How to utilize facilities of small business for larger war production. D. L. Miller. Steel 110:61-2 Mr 16 '42

India's war shops. J. R. Custer. il Automotive & Aviation Ind 87:26-8 S 15 '42

Industrial buildings; building types study; with time-saver standards. il diags plans Arch Rec 91:65-80 Ja '42

Industrial fission; how Caterpillar is reproducing itself to meet new management problem of munitions-making subsidiary. Business Week p30+ Mr 28 '42

Motor cars to munitions. il diags map Am Mach 86:sup1-16, 549-612 Je 11 '42

New contract form becomes standard in War department; architect-engineer-manager form. Eng N 128:297-8 F 19 '42

New defense facilities. J. D. Wilson. Survey of Cur Business 21:10-17+ N '41

Royal ordnance factories. Engineer 174:96-8, 121-2 Jl 31-Ag 7 '42; Engineering 154:115-16 Ag 7 '42; Discussion. A. Duncan. Engineer 174:131-2 Ag 14 '42

Safety in powder plant construction. il Eng N 128:404-6 Mr 12 '42

Sewage disposal design for wartime industrial plants. M. H. Klegerman. il diag Eng N 129:492-5 O 8 '42

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:32-3 F '42

Stupendous, tremendous, the words after press peeks into Detroit arsenals. Steel 110: 44-5 Ap 13 '42

TVA's war might; system is engaging in manufacture of munitions. map Business Week p24, 27 Ap 11 '42

Tooling; strip it for action. G. Hubbard. il Steel 110:54-7 Ja 12 '42

Two keys to war plant speed; construction roads and local materials. Eng N 129:285-9 Ag 27 '42

Underground factories. il Engineer 173:211-12, 230-2 Mr 6-13 '42

Value of defense contracts for industrial facilities financed with government and private funds through November 1941; chart. For Comm W 7:23 Ap 11 '42

War effort revolves around industrial gas. G. F. B. Owens. il Gas Age 89:38-9 Ja 15 '42

War factories symbolize 1941 building. J. I. Ballard. il Eng N 128:97-8 Ja 15 '42

War industrial facilities; value by type of product and source of funds through Dec. 31, 1941; tabulation. Manuf Rec 111:35 Mr '42

War plant buildings without footings; unreinforced-concrete floor slabs, integral with wall sills and column pedestals. il diags Eng N 129:350-2 S 10 '42

WPB about to call a halt on new war-plant construction. E. Blair. Barron's 22:4 My 18 '42

War production problems. B. D. Kunkle. Ind Med 11:245-8 Je '42

Water for the South's powder plants; radial well developed by the Ranney water collector corporation. il diags Manuf Rec 111: 32-3 Je '42

Windowless factory with water roof; Monroe calculating machine company, Orange, N.J. il Am Bld 64:85 Mr '42

See also

Automobile industry and trade—Munitions manufacture

Shells (projectiles)—Loading plants

Tanks, Military—Manufacture

MUNITION factories—*Continued*

Air conditioning

Air conditioning for Gadsden ordnance plant. il Dom Eng 159:78+ Ja '42

Munitions plant installs air conditioning in its machine shop. G. Rust. il Heat & Ven 39:30-4 Mr '42

Electric equipment

Secondary networks serve ordnance plants. H. D. James. il diag plan Elec W 118:445-8 Ag 8 '42

Employees

Absenteeism in war industry; Britain's solution. Trusts & Estates 75:341-2 O '42

Aliens in war industries. W. W. Alexander. Ann Am Acad 223:138-43 S '42

Allis-Chalmers plan orients new employees. il Iron Age 149:92 Je 18 '42

Applied psychology increases war output 20 times; work of Britain's National institute of industrial psychology. Steel 110:116-17 Ap 20 '42

Are war workers getting most of the wage increases? J. F. Kurie. Adv & Sell 35:23 N '42

Are we mice or men? labor in our war production plants. H. Ritter. Manuf Rec 111:29+ S '42

Careful check on employes to weed out potential saboteurs advised. Steel 111:65-6 Ag 17 '42

Defense area banking around Los Angeles. J. H. Collins. il Burroughs Clearing House 26:13-15 F '42

Defense workers trained quickly; Machine gun division of AC spark plug co. il Am Mach 85:1127-30 N 12 '41

80 per cent of war jobs could be done by women. P. V. McNutt. il Steel 110:45 Je 1 '42

Employer's wartime responsibility. G. L. Hostetter. il Power Pl Eng 46:110 Ap '42

Employment of women in the manufacture of artillery ammunition. U S Women's Bur Bul 189-3:1-17; pa 5c Supt. of doc. '42

Employment of women in the manufacture of small-arms ammunition. U S Women's Bur Bul 189-2:1-11; pa 5c Supt. of doc. '42

Federal agencies pool efforts to eliminate war plant slowdowns. Steel 110:26-7 Ap 27 '42

Firmness and scorn reduce lateness and absenteeism. Am Mach 86:1254m O 29 '42

Fisher Body personnel training program. il Aero Digest 40:77-8 Je '42

48-hr. week urged by government for war work. Comm & Fin Chr 156:364 Jl 30 '42

Fourteen-point program for labor. S. Hillman. Steel 110:43-4 Ap 6 '42

General Electric has trained more than fifty thousand war workers. Mach 48:147 Je '42

Get ready now for manpower control. il Factory Management 100:58-64 Jl '42; Abstract. Management R 31:226-8 Jl '42

Handicapped men aid in war production. P. V. McNutt. Nat Safety N 46:103 Jl '42

Health and efficiency of munition workers. H. M. Vernon. 138p $2.50 Oxford '41

Health of women in war-time production. M. T. Mettert. Nat Safety N 45:34, 38+ Je '42; Same. Safety Eng 84:39-40 Ag; 40-1 S '42

How to get ahead in a defense plant. K. C. Hawthorne. 270p $2.50 Crowell '42

How to get the best results through employing women in war work. il Steel 110:62-3 Je 29 '42

Human conversion to war work. Mach 48:129 My '42

Industrial dermatitis in our war industries. L. Schwartz. Ind Med 11:457-62 O '42

Industrial hygiene at work in defense industries. W. A. Cook. Metal Finishing 40:19-23+ Ja '42; Same. Safety Eng 83:41-2 Mr; 47-50 Ap; 40-2, 44 My '42

Industrial hygiene problems in war industries. J. J. Bloomfield. Ind Med 11:256-60 Je '42

Job instruction aids output increase. Automotive & Aviation Ind 86:52+ Ap 15 '42

Keep 'em rolling; medical department of Radford ordnance works. A. McCausland. il Safety Eng 83:34-8 Ja '42

Keeping war production and workers up to par. il Ind Marketing 27:16-18+ Jl '42

Labor policy for government plants. Monthly Labor R 55:462-5 S '42

Many thousands of defense workers in the West depend on their automobiles for transportation. il Nat Pet N 34:27 Mr 4 '42

Methods of securing maximum output in Great Britain. Int Labour R 44:674-9; 45:431-3 D '41, Ap '42

Millions of women war workers needed to achieve arms goal. T. McKelvey. il Steel 110:60 Ap 6 '42

Morale-building activities for war workers. E. L. Warner, jr. il Automotive & Aviation Ind 87:30-3+ Ag 1 '42

Morale work; industry gets help from army and navy. il Business Week p18-19 D 13 '41

Munitions labour supply organization. W. H. Denholm. Inst Mech Eng J & Proc 145:Proc 160-6 S '41; Discussion. 145:Proc 166-70; 147:Proc 78-83 S '41, My '42

Packard work to win competition inspires men, speeds up divisions. il Steel 110:68-9 My 18 '42

Predict peak Detroit employment by 1943. Automotive & Aviation Ind 86:47+ Je 15 '42

Reports 12,500,000 in war industries. P. V. McNutt. Comm & Fin Chr 156:282 Jl 23 '42

Ride by contract; to supplant voluntary ride-sharing. Business Week p50+ O 17 '42

Sales contest technique brings more guns for navy; Northern pump co. merchandises high-speed war production to employees and management. il Ptr Ink 199:18+ Je 12 '42

Servel movement will help to speed war production; industrial nutrition plan. il Gas Age 90:78+ Jl 16 '42

Skin sensitivity as a factor in job placement; Colt's patent fire arms manufacturing co. J. H. Biram. Ind Med 11:385-6 Ag '42

Symington's war production drive; labor-management committee. C. J. Symington. il Ry Mech Eng 116:336-8 Ag '42

Training problems and women employees; war production conference, American society of tool engineers. Iron Age 150:63-4 O 22 '42

Training women for war work. J. B. Nealey. il Iron Age 150:50-1 Ag 6 '42

Transport of war workers. Economist 141:731-2 D 13 '41

War industries fight absenteeism. Iron Age 150:87-9 Jl 9 '42; Abstract. Management R 31:311-12 S '42

War manpower developments; regulation of enlistment of men in federal posts and war industry. Am Water Works Assn J 34:1734-6 N '42

WPB board of awards honors war workers for suggestions that improve production. Am Mach 86:1192n O 15 '42

War-training formula that works; Great Lakes college. G. E. Stedman. il Steel 111:54-5, 69, 72+ Jl 27 '42

War work so different that both supervisors and workers had to be retrained; Fisher body. il Am Mach 86:586-7 Je 11 '42

When workers get the will to win; practical morale-building methods. il Factory Management 100:42-4+ Ap; 58-67+ My '42

Will conscription for war work come? il Factory Management 100:58-64 F '42

Women in war industries; their increasing role in the production program. Index 22 no 3:58-64 [S] '42

Women take over small shell plant. il Iron Age 150:100 S 10 '42

Women work for victory. il Safety Eng 83:6-8 Je '42

Work as you never worked before; message to Nation. D. M. Nelson. Steel 110:30-2 Mr 9 '42

Workers rewarded for ideas with certificates of merit by War production board. il Steel 111:64-5 Ag 10 '42

Working hours in U.S. war plants, Feb. 1942; tabulation. Iron Age 149:103 My 7 '42

MUNITION factories—Employees—*Continued*

Working hours in war production plants, February 1942. H. F. Houghton. Monthly Labor R 54:1061-5 My '42

You're in the navy now! awards spur workers' patriotic pep; companies awarded Navy's Bureau of ordnance flag and E pennant. il Steel 110:48-9 F 9 '42

Equipment

Aircraft bomb fuzes; Westinghouse electric & manufacturing company. il diags Am Mach 85:1323-33 D 24 '41

Automatic spray pickling; combined annealing equipment heat treats, pickles, washes and dries in one continuous operation. il Steel 110:78+ My 25 '42

Better handling equipment speeds bomb production. il Steel 111:74+ S 21 '42

Conveyorized plant finishes shells by the million; Iowa ordnance plant. il Factory Management 100:80-1+ F '42

Conveyors speed billets to bullets. il Steel 110:98+ Je 15 '42

Famous Tommy gun made by self-contained plant. il Iron Age 150:54-60 Jl 2 '42

Gage and cutter conservation in Canada. il Am Mach 86:233-44 Mr 19 '42

How can we accelerate the armament program? R. T. Kent. Mach 48:127-30 D '41

How Savage Arms makes the Browning machine gun. J. B. Nealey. il Iron Age 149:60-4 Mr 12 '42

Industrial gas controls as used in war plants. A. H. Koch. Am Gas J 156:26-8 Je '42

Line production of shell cases. il Am Mach 86:521-8 My 28 '42

Mars rules metal-working trends. il Am Mach 86:77-8 Ja 22 '42

Material handling at shell loading plants; Auto-Railer used both on roadways and rails. W. F. Sherman. il Iron Age 149:62-6 Mr 26 '42

Percussion fuze for small shell; Canadian plant. il diags Am Mach 86:447-62 My 14 '42

Producing smokeless powder by 1942 methods. R. E. Hardy. flow sheet(p110-13) il Chem & Met Eng 49:76-9 Ap '42

Removal of refrigeration equipment from existing comfort conditioning systems for use in war production; disconnecting, removing, and re-installing. A. E. Vroome. il Heating-Piping 14:647-9 N '42

Seamless bombs from steel plate. J. B. Nealey. il diags Am Mach 86:1117-22 O 1 '42

Small arms ammunition manufacture; Lake City ordnance plant. J. B. Nealey. il Iron Age 149:29-34 Ja 8 '42

Sound systems for war plants. S. Harmon. il plan Radio N 28:22-4+ S '42

Standard tools speed conversion. D. M. Pattison. il Am Mach 86:1003-5 S 17 '42

Tooling up for victory; automotive, aircraft, and machine tool industries join. G. H. Johnson. il Automotive & Aviation Ind 87:88-91+ O 1 '42

Tools of war from yesterday's laboratories; gas fired furnaces. H. M. Heyn. il Gas Age 89:38-40+ My 7 '42

Heating and ventilation

14 boilers, thousands of miles of pipe; Naval ordnance plant, plumbing, heating and air conditioning equipment. il Dom Eng 160:40-1 Ag '42

Lighting

Daylighting featured in war manufacturing plant; Kollsman instrument division, Square D co. il Eng N 129:403 S 24 '42

Lighting maintenance in war industry plants. A. K. Gaetjens. Illum Eng 37:403-10 Jl '42; Discussion. 37:489-90 S '42

Location

Federal anthracite coal commission outlines ways to rehabilitate condition of anthracite region. Coal Age 47:50 Je '42

Inland sites for new arms plants. R. Ginsburgh. map Am Mach 85:1281-2 D 10 '41

Management

Botts rides again; Cadillac motor co. disemployed salesmen as expediters. Fortune 26:22+ S '42

How to handle inspections in war production work. il Steel 110:75-6+ Je 1 '42

Increasing production without increasing facilities. Engineering 154:24-5 Jl 10 '42; Same cond. Engineer 174:8-9 Jl 3 '42

Influence of automotive mass production methods on the manufacture of war materials. J. Geschelin. il Automotive & Aviation Ind 87:30-5+ Jl 1 '42

Ordnance says; army buying outfit is controlling and changing methods of plant operation. Business Week p66+ Ag 15 '42

Pullman's one writing parts order plan. il Am Business 12:14-15 Ag '42

Power

FPC to oversee all U.S. power contracts. Elec W 118:1454 O 31 '42

Mobilizing kilowatts for war. J. A. Krug. il Elec Eng 61:126-31 Mr '42

Nine transformer shifts save copper. B. M. Jones. diag Elec W 118:964 S 19 '42

Power design in defense plants. H. Winte. il diags Elec W 116:2039-41; 117:59-62, 478-81, 640-2, 805-8 D 27 '41-Ja 10, F 7-Mr 7 '42

President advises war agencies to use cheapest power. Comm & Fin Chr 156:1636 N 5 '42

Would cheapen cost of power to war plants; in letter to war agencies, President Roosevelt suggests contract between plant and supplier. Elec W 118:1277 O 17 '42

Records

Paper work in defense jobs; Packard's experience. R. G. French. il Am Business 11:20-2 D '41

Safety measures

Defense plant sets safety record; Kankakee ordnance plant. Nat Underw 45:21 N 20 '41; Correction. 45:22 N 27 '41

Hazards retard war effort. il Safety Eng 84:26-7 Jl '42

Industrial safety and the war effort. Elec Eng 61:221-2 Ap '42

Magnesium oxychloride sparkproof floors. M. Y. Seaton. il Chem Ind 51:74-7 Jl '42

New tunes for Axis ears; safety features in Rock-Ola manufacturing company's change-over to munitions. il Safety Eng 84:6-8 S '42

Safety fights our battles; safety equipment in war production. il Safety Eng 84:33-4 Ag '42

School teaches safety in explosives manufacture; U. S. Ordnance department Explosives safety branch. C. Field. Nat Safety N 46:80 O '42

Some occupational observations of the defense industry. L. N. Parker. Nat Underw (Life ed) 46:12-13 Je 5 '42

War industries face new hazards. L. E. MacBrayne. Factory Management 100:72+ Mr '42; Excerpt. Management R 31:207-8 Je '42

Women at war; safe practices. il Nat Safety N 46:58-9+ O '42

MUNITIONS

America turns pro; the raw materials of shells, bombs and explosives. H. F. Lee. Barron's 22:3-4 F 9 '42

American industry has been given a very grave commission. K. T. Keller. Comm & Fin Chr 155:458-9 Ja 29 '42

Arms and the aftermath. P. Stryker. 157p $1.75 Houghton '42

Balancing munitions output new phase in WPB program; control over production and materials intensified; processing of Production requirements plan applications to be revamped. Steel 111:18-19 Ag 31 '42

Canada at war. Automotive Ind 86:42+ Ja 15 '42

Exploding a fallacy; new profit factors for arms producers. B. Hengerer. il Mag of Wall St 69:242-4+ D 13 '41

Explosives and munitions. Explosives Eng 20:98 Ap '42

MUNITIONS—*Continued*

Facing the facts; substitution and conservation of materials. D. M. Nelson. Machine Design 14:45-6+ Mr '42

Four-point program to increase vital war supplies outlined by OEM. Steel 110:48 Ja 26 '42

Guidebook to war business; report to executives, with directory of army purchasing agencies. Business Week p25-40 Je 27 '42

Guns duty free; U.S. and Dominion may succeed in removing tariffs on interchange of munitions. Business Week p42+ Ja 17 '42

High lights of the session on ores, metals, and the war at the annual meeting, A.I.M.E. il Min & Met 23:210-14 Ap '42

Increased production begun at FDR's order. Comm & Fin Chr 155:948 Mr 5 '42

Industrial production, 1941. Survey of Cur Business 22:18-19 F '42

Industry faces it; it's conversion or else. Business Week p17-18+ F 21 '42

Industry marshals resources to meet call for doubled arms program. Steel 110:21-3 Ja 12 '42

Kanzler plan; new WPB operations boss. Business Week p17 S 19 '42

Liquidity of war producers. C. B. Nickerson. Harvard Business R 20 no 3:369-74 [Ap] '42

Major industry supports general defense; chemical industry may be a prime factor in winning the war. W. H. Hillyer. Barron's 22:9-10 Je 1 '42

Major industry supports general defense; importance of steel in this war. W. H. Hillyer. il Barron's 22:9 My 11 '42

Major war products of the automotive industry; illustrations. Automotive & Aviation Ind 87:64-73 O 1 '42

Management's role in defense. W. L. Batt. Franklin Inst J 233:125-33 F '42

Many defense uses for plastics. Barron's 21:5 N 17 '41

Materials melt as defense goes into high gear. J. Garth. il Am Business 11:34, 36-8 N '41

New goals set for industry. Business Week p15-16 D 20 '41

Ohio's war production job. J. A. McWethy. il Barron's 22:8-9 S 28 '42

Plastics in defense. D. W. Hoppock. Product Eng 13:47-8 Ja '42

Problem of supply of war materials and its control still unsolved. E. Blair. Barron's 22:4 Ag 3 '42

Product development, the ugly duckling of business. E. H. Schell. il Dun's R 50:7-12+ F '42

Production effort now being geared to specific needs rather than for unlimited output. E. Blair. Barron's 22:4 Je 15 '42

Protective coatings for German war machine. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ap 13 '42

Railway supply industry serves the railroads and the Nation. R. A. Doster. il Ry Age 112:18-21 Ja 3 '42

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:18-27+ Ja; 28-35+ F '42

Swords and plowshares; some of our great implements of peace originally were weapons of war. J. Early. il Barron's 22:3 Ja 5; 40 Ja 12; 8 Ja 19; 9 Ja 26; 9-10 F 2; 7 F 9; 8 F 16; 9 F 23; 7 Mr 2; 7 Mr 16; 20 Mr 23 '42

Teamwork wins war contracts; San Jose plan, pool of small shops and manufacturers. il Am Mach 86:47-9 F 5 '42

Tools of war. J. R. Newman. 398p bibliog (p364-6) $5 Doubleday '42

U.S., Britain set up three boards to handle materials, munitions and shipping. Comm & Fin Chr 155:572 F 5 '42

U.S. outproduced Axis powers in 1941. W. P. Witherow. Comm & Fin Chr 155:17, 22-4 Ja 1 '42

War goals, and limits. Business Week p15-16 Ja 17 '42

War is a production problem. S. E. Thompson. Advanced Management 6:133-4 O-D '41

War output in 1942 set at $45 billion. Comm & Fin Chr 156:191 Jl 16 '42

War-production bottlenecks broken by brainwork. il Steel 110:38-41 Ap 13 '42

War victory needs expanded production. D. M. Nelson. Comm & Fin Chr 155:847 F 26 '42

Washington's significant orders on materials and prices. Published in weekly numbers of Business week

See also

Explosives

Ordnance

Priorities and allocations, Industrial

Cost

Canadian munition costs. Economist 143:302-3 S 5 '42

War costs money. 5p Cleveland public lib, War and defense information center, Cleveland '42

Manufacture

All out from the neck up; converting railroad shops to war production. il Fortune 26:80-2+ Jl '42

American Locomotive; with orders for tanks, gun carriages, bombs and shells. il Fortune 25:78-83+ F '42

American society for metals, and the War products advisory committee aid small plant operators; types of requests listed. Iron Age 149:58-9 My 28 '42

America's war industry turns to gas to surpass production peaks. F. H. Adams. il Am Gas Assn Mo 24:133-7 Ap '42

Automotive industry at war. A. Macauley. il Automotive & Aviation Ind 87:49-51+ O 1 '42

Blue print for victory. O. E. Hunt. il S A E J 50:sup 15-19 Mr '42

Brandt shop wins navy E. il Sheet Metal Worker 33:23+ Jl '42

Contracts, prime and sub. G. T. Trundle, jr. Am Mach 86:151-3 Mr 5 '42

Conversion lighting; manual of priority procedure. diags Elec W 118:101-16 Jl 11 '42

Conversion or shut down? il Steel 110:30-3 Je 8 '42

Conversion without confusion. G. Hubbard. il Steel 110:82-3+ My 11 '42

Converted lathes win war work. B. Darcy. il Am Mach 86:826-8 Ag 6 '42

Converting a linoleum plant to produce shells, bombs, and aircraft parts; prime and subcontracts. Mach 48:113-16 My '42

Converting civilian production to war production. W. H. Wheeler, jr. Edison Elec Inst Bul 10:136-8+ Ap '42

Do you fully realize that this is a total war; converting your production facilities to handle war work. il Steel 110:38-41 Ap 6 '42

Dry-cleaning fluids speed arms production; solvent degreasing. Iron Age 149:64-5+ Je 18 '42

Electroplating turns from peace to war. J. B. Kushner. il Metal Prog 41:517-21+ Ap '42

Enameling plant converts to war production. A. F. Macconochie. il diags Steel 111:54-5, 74, 76+ Ag 24 '42

Engineers perfect metal-saving methods for manufacture of armament. Steel 111:111-12 O 5 '42

Engineers' war. Economist 143:81-2 Jl 18 '42

Excess machine capacity offers an opportunity for service; idle hours of machine tools in railroad shops can be used in defense work. H. C. Wilcox. Ry Age 112:49 Ja 3 '42

Farewell to loans; how a finance company converted itself. Business Week p19-20 Ap 4 '42

Finishing defense products. F. V. Faulhaber. il Metal Finishing 40:228-30, 279-80, 283, 339-41 Ap-Je '42

Forgings and forging practice. A. F. Macconochie. il diags Steel 110:60-1, 71-2 Je 22; 56-8 Je 29 '42

Former lumber queen of the world now a leading industrial community supplying engines and war products, Muskegon, Mich. Steel 111:59-60 N 9 '42

MUNITIONS—Manufacture—*Continued*

Foundries gird to meet war demands. il Foundry 70:66-7, 145-50 F; 70-1, 149-52 Mr '42

From industrial mobilization to war production. H. N. Gilbert. Harvard Business R 21 no 1:124-36 [S] '42

From linoleum to aircraft stampings; Armstrong cork co. converts to shells, shot, aircraft stampings, bomb racks, etc. il Iron Age 150:56-8 Jl 9 '42

From the ground up; war time chemical industry; production of explosives and munitions. D. M. Considine. Sci Am 166:278-80 Je '42

Full conversion to war production expected within seven months. il Steel 110:32-4 Mr 2 '42

Gas, a major tool of war production. il Gas Age 90:38-42+ Jl 16 '42

G.E. does it; it has shouldered a unique martial burden without altering its stride. il Fortune 25:64-9+ Mr '42

Give us orders! and we'll solve production. il Fortune 25:58-62+, 63 Mr '42

Greater use of old equipment urged at war engineering conference. Steel 110:116+ Je 8 '42

Here are the reasons why you must convert your plant to war production. il Steel 110: 22-5 Ap 27; 38-41+ My 4 '42

How industrial gas is promoting Canada's war effort. D. H. Thorburn. Am Gas Assn Mo 24:193-4 My '42

Increasing production without increasing facilities. Engineering 154:24-5 Jl 10 '42; Same cond. Engineer 174:8-9 Jl 3 '42

Machine tools, old and new, in defense production; abstract. F. C. Dull. Mach 48:145 D '41

Materials saved by design changes; General Motors. Am Mach 86:1274+ O 29 '42

Midwestern manufacturers speed conversion to war output. il Steel 110:34-6 Mr 16 '42

Military applications for organic finishes; infrared drying. T. P. Cusack, jr. il diags Metal Finishing 40:499-501, 503-4 S '42

Military applications of electroplating; abstract. W. Blum. Iron Age 150:71+ Jl 2 '42

Motor cars to munitions. B. Finney. il Am Mach 86:61-4 F 5 '42

New War scheduling board proposed in General Motors' warrant plan for production control. Iron Age 150:72+ Ag 27 '42

Obtaining war contracts by redesigning parts. T. I. Byrd. il Aero Digest 41:94, 96+ O '42

Production for victory in automotive industry. E. L. Warner, jr. il Automotive & Aviation Ind 87:56-9+ O 1 '42

Production with precision. G. Scherr. il Am Mach 86:389 Ap 30 '42

Putting surplus metals from peacetime manufacture into vital war production. A. H. Phelps. Steel 111:66+ Ag 3 '42

Quality control and the war; experience of United States army Ordnance department in applying quality-control production of munitions. L. Simon. Elec Eng 61:449-52 S '42

Regional organisation for production. N. V. Kipping. Engineer 174:316-17 O 16 '42

Report of committee on use of gas in national defense. Am Gas Assn Proc 1941: 391-3

Role of induction heating in war production. F. T. Chesnut. il diag Mech Eng 63:861-4 D '41; Same. Metals & Alloys 14:851-5 D '41

Shortages hurt; insufficient supplies of alloy steel, aluminum, or copper. Business Week p56-7 Jl 25 '42

Some typical conversion case histories; from metal housewares to ordnance tools. Metals & Alloys 15:772 My '42

Specifications of naval and military finishes; table. P. H. Goodell. Iron Age 149:64 Je 25 '42

Specifications problem. W. C. Hirsch. Automotive & Aviation Ind 87:17+ Jl 1 '42

Standard arms; WPB limits number of armament parts a given plant can make. Business Week p26+ Je 13 '42

Successful method of putting idle equipment to work on munitions. Mach 48:204 Ap '42

Supply industry takes on much war production. il Ry Age 112:1032-5 My 23 '42

These machines went to war; these machines stayed home. J. F. Nesbitt. il Comp Air M 47:6813-14 Ag '42

Thousand engineers take part in Newark war-production conference. Mech Eng 64: 569-72 Jl '42

Tool engineer and national defense. I. A. Swidlo. il Am Mach 86:209-10 Mr 19 '42

Training operators in a plant converted to war work; employes, ordinarily engaged in making linoleum, bottle caps, plastics, and gaskets trained to produce precision metal war products. il Mach 48:121-6 Je '42

War needs speeded by resistance welding. B. L. Wise. il diags Machine Design 14: 61-4+ Jl '42; Same. Steel 111:184-6, 188, 190 O 5 '42

War production, the task of the engineer. W. L. Batt. Mech Eng 64:519-21 Jl '42

What Uncle Sam expects of the automobile industry. E. L. Warner, jr. Automotive Ind 86:17, 52+ Ja 15 '42

See also

Automobile industry and trade—Munitions manufacture
Factories—Conversion
Fuses—Manufacture
Guns (ordnance)—Manufacture
Industrial mobilization
Rifles—Manufacture
Shells (projectiles)—Manufacture

Prices

How OPA price controls affect military goods; tabulation. Business Week p24 S 5 '42

MUNSCH national first aid instructors association. See First aid in illness and injury

MUNTZ metal

Properties of Muntz metal. R. A. Wilkins and E. S. Bunn. Product Eng 13:290-4 My '42

MURAL painting and decoration

Early American wall stencils; their origin, history and use. J. Waring. rev ed 86p $3.75 William R. Scott, 72 5th av, New York '42

Glass proves valuable as structural material; murals for Toledo, Ohio, public library. il Cer Ind 38:60-1 Je '42

New process for glass as art medium; Nicolas murals of flashed opaque glass. T. Laymon. il Glass Ind 22:518-20 D '41

See also

Interior decoration
Photographic murals

MURIATIC acid. See Hydrochloric acid

MURPHY, G. C., company

Growth stocks and the investor. E. N. Chapman. Barron's 21:20 D 29 '41

Preferred stock offered. Comm & Fin Chr 156:82 Jl 6 '42

MURRAY, Philip, 1886-

C.I.O. schism. Business Week p14 Je 6 '42

Phil fights John with a timely tear. por Business Week p74 My 9 '42

Push Murray plan; C.I.O. renews drive for labor participation in direction of war effort. Business Week p74-5 Jl 4 '42

MURRAY corporation of America

Union time study; Murray corp. plan enlist worker representatives in cost control system. Business Week p62-3 Ag 29 '42

MUSCLE

Dielectric studies on muscle hemoglobin. H. O. Marcy, 3d and J. Wyman, jr. bibliog Am Chem Soc J 64:638-43 Mr '42

Muscle; v. 3, Biological symposia. W. O. Fenn, ed. 370p $3.50 Jaques Cattell press, Lancaster, Pa. '41; Review by F. H. Pratt. Science 96:87-9 Jl 24 '42

Muscle fibers; abstract. K. G. Stern. Science 96:sup12 S 4 '42

Venopressor mechanism. Y. Henderson. bibliog Science 95:539-43 My 29 '42

MUSCULAR work

Influence of vitamin B (complex) surplus on the capacity for muscular and mental work. E. Simonson and others. bibliog J Ind Hygiene 24:83-90 Ap '42

MUSCULAR work—*Continued*

Uncle Sam may be missing hardy workers by putting limit of draft at 64 years; effect of aging on fitness for muscular work; abstract. F. A. Hellebrandt and P. M. Dawson. Science 95:sup 11 Ap 10 '42

MUSEUM laboratories

Some aspects of museum laboratory work. H. J. Plenderleith. Chem & Ind 60:807-12 N 15 '41; Discussion. 60:849-51 N 29 '41

MUSEUM libraries

Relation of the museum librarian to his institution and staff. L. Ash, jr. Special Lib 33:121-3+ Ap '42

MUSEUM of modern art film library, New York

Adventures of a film library; adapted from an article by Iris Barry. R. Griffith. Soc Motion Picture Eng J 38:284-94 Mr '42

MUSEUM of New Mexico, Santa Fe

New Hall of ethnology. Science 94:481 N 21 '41

MUSEUM of science and industry, New York

New York museum of science and industry and the Henry R. Towne endowment fund. Science 94:481 N 21 '41

MUSEUMS

College and university museums; a message for college and university presidents. L. V. Coleman. 73p $1.25 Am. assn. of museums, Smithsonian institution, Washington, D.C. '42

See also

Art galleries and museums
Buffalo museum of science, Buffalo, New York
Carnegie institute, Pittsburgh—Museum
Field museum of natural history, Chicago
Natural history museums

Gifts, legacies, etc.

Gifts and bequests to museums. J. P. Jones. Science 96:34-5 Jl 10 '42

MUSEUMS, Medical. See Medical museums

MUSHROOMS

North American cup-fungi (operculates). F. J. Seaver. supplemented ed 377p bibliog (p347-72) $6.50 Fred Jay Seaver, c.o. N.Y. botanical garden, New York '42

Photograph the fungi and learn to know them. L. W. Brownell. il Am Phot 36:38-41 N '42

MUSIC

See also

Radio broadcasting—Music
Tones

Acoustics and physics

Acoustics of music. W. T. Bartholomew. 242p bibliog(p231-8) $3 Prentice-Hall '42

Directivity and the acoustic spectra of brass wind instruments. D. W. Martin. diags Acoustical Soc Am J 13:309-13 Ja '42

Lip vibrations in a cornet mouthpiece. D. W Martin. il diags Acoustical Soc Am J 13:305-8 Ja '42

Modern music recording studio; action of convex wood splays. M. Rettinger. bibliog il Soc Motion Picture Eng J 39:186-94 S '42

Psychology

Science in music. C. E. Seashore. Science 95:417-22 Ap 24 '42

MUSIC, Primitive

Cooperation with the film industries in the study of primitive music. C. E. Seashore. Science 96:263-5 S 18 '42

MUSIC in industry

Billing clerks work to music, and do more. il Gas Age 90:82 Jl 16 '42

Music at work; company experiences. il Am Business 12:20, 22 Jl '42

Music speeds production for war; Westinghouse lamp division. Nat Safety N 46:67 Ag '42

She shall have music; use of recorded music in mill; Collins & Aikman corp. il Textile World 91:105 D '41

Sound and the victory program; use of loudspeakers for intercommunication, air raid warning, music, etc. S. C. Milbourne. il Radio N 27:9+ Ap '42

MUSIC publishing

No singing war; failure of hit songs to materialize. Business Week p74-6 Jl 25 '42

MUSIC trade

Directories

Purchaser's guide to the music industries, 1942. J. C. Freund. 272p pa $1 Music trades corp, 113 W. 57th st, New York '42

MUSICAL instruments

Ancient European musical instruments. N. Bessaraboff. 503p bibliog(p451-69) $10 Harvard univ. press '41

From the hunter's bow; the history and romance of musical instruments. B. Edgerly. 491p bibliog(p427-31) $3.50 Putnam '42

Picture book of musical instruments. M. Lacey. 55p $2 Lothrop, Lee & Shepard co, Boston '42

See also

Clarinets
Cornets
Organ pipes
Phonograph
Pianos
Strings
Trumpets
Wind instruments

Repair

Selmer band instrument repairing manual. E. D. Brand. 2d ed 177p $3 H. & A. Selmer, Elkhart, Ind. '42

MUSICAL instruments, Electric

Non-metal shields; colloidal graphite films. B. H. Porter. Electronics 15:33+ Ap '42

MUSICAL pitch

See also

Organ pipes

MUSICIANS

Bibliography

Bio-bibliographical index of musicians in the United States of America from colonial times. 439p pa $1 Music div. Pan American union, Washington, D.C. '41

MUSICIANS, American federation of. See American federation of musicians

MUSK

American musk; chemical constitution of the musk of the Louisiana muskrat. P. G. Stevens and J. L. E. Erickson. bibliog Am Chem Soc J 64:144-7 Ja '42

MUSKEGON, Michigan

Industries

Former lumber queen of the world now a leading industrial community supplying engines and war products. Steel 111:59-60 N 9 '42

MUSKEGON HEIGHTS, Michigan

Water supply

New water supply system. G. F. Liddle. il Pub Works 73:16-18 My '42

MUSKRATS

American musk; chemical constitution of the musk of the Louisiana muskrat. P. G. Stevens and J. L. E. Erickson. bibliog Am Chem Soc J 64:144-7 Ja '42

MUSSOLINI, Benito, 1883-

Three dictators. F. Owen. 2d ed rev 270p $2.50 Norton '41

MUSTARD gas

Effects of Lewisite and mustard warfare gases; abstract. G. L. McCoy. Chem & Met Eng 49:186 My '42

Protection from blister warfare gases; abstract. G. L. McCoy. Chem & Met Eng 49:146+ Ap '42

War gas identification sets. F. C. Hickey and J. J. Hanley. il J Chem Educ 19:360-1 Ag '42

MUSTARD oil

Mustard oil explosion. News Ed 19:1408 D 10 '41

Phenylmercapto-thiazolines. J. B. Niederl and W. F. Hart. Am Chem Soc J 64:2487-8 O '42

MUTAROTATION. See Optical rotation

MUTINY
Strike aboard ship held mutiny. Monthly Labor R 54:1156 My '42

MUTTON
Ceiling on lamb. Comm & Fin Chr 156:472 Ag 6 '42

MUTUAL aid societies. See Benefit societies

MUTUAL benefit health and accident association
Office building; views, plans and construction outline. Arch Forum 75:365-70 N '41

MUTUAL benefit life insurance company
Country's third largest company. W. E. Roesch. il Spectator (Life ed) 149:31-3 Ag '42

MUTUAL broadcasting system
Mutual broadcasting system sues RCA-NBC; charges unlawful combination and conspiracy to restrict free and fair competition in radio field. Comm & Fin Chr 155:192 Ja 13 '42
Mutual hits NBC; asks damages for antitrust violations. Business Week p49-50 Ja 17 '42
Mutual sues RCA and NBC for $10,275,000. Ptr Ink 198:64 Ja 16 '42

MUTUAL insurance. See Insurance, Mutual

MUTUAL life insurance company of New York
Second hundred years. W. E. Roesch. Spectator (Life ed) 149:28-30 Jl '42

MUTUAL savings banks. See Savings banks

MYCALEX
Injection-molded Mycalex. T. N. Willcox. il Mod Plastics 19:54-5+ Ap '42

MYDRIATICS
Synthetic mydriatics. F. F. Blicke and C. E. Maxwell. bibliog Am Chem Soc J 64:428-33 F '42

MYER, H. Leslie, 1878-
Sketch. por Explosives Eng 20:252-3 S '42

MYOGLOBIN
Dielectric studies on muscle hemoglobin. H. O. Marcy, 3d and J. Wyman, jr. bibliog Am Chem Soc J 64:638-43 Mr '42

MYOSIN
X-rays and the stoicheiometry of the proteins, with special reference to the structure of the keratin-myosin group. W. T. Astbury. bibliog pl diags Chem Soc J p337-47 My '42; Abstract. Soc Dyers & Col J 58:163-4 Ag '42

MYRIAPODS
Freezing myriapods for photographing. M. W. Johnson and J. H. Starling. Science 96:324 O 2 '42

MYRICK, Julian S. 1880-
Thirteen N.Y. groups in tribute to Myrick. East Underw 42:6+ D 19 '41

N

NACCONOL NR
Detergents from petroleum. L. Flett. il Chem & Eng N 20:844-8 Jl 10 '42
Evaluation of a surface active agent for metal cleaning; Nacconol NR alone and with alkalies. O. M. Morgan and J. G. Lankler. il Ind & Eng Chem 34:1158-61 O '42

NACHTRIEB, Henry Francis, 1857-1942
Sketch. D. E. Minnich. Science 96:150-1 Ag 14 '42

NAFTOLEN
Naftolen as a compounding material for synthetic rubbers of the Buna N type. F. Rostler and V. Mehner. Rubber Age 51:27-31, 125-8 Ap-My '42
Naftolen as a plasticizer and extender for rubber in carbon black compounds. F. Rostler and V. Mehner. India Rubber W 105:473-7 F '42
Naftolen in carbon black compounds containing reclaim. F. Rostler and K. Rostler. India Rubber W 107:163-8 N '42
Naftolen, its use in plastics and coatings. L. Bornstein and F. Rostler. il Mod Plastics 19:72-4+ Ap '42

NAGAYO, Mataro, baron, 1878-1941
President of the Japanese foundation for cancer research. W. Nakahara. Science 94:479-80 N 21 '41

NAILS
Electro-magnetic nail pickup. Eng N 129:445 S 24 '42
Nails from ruins of St Pierre, examined for evidence of conditions existing in the nuée ardente. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:208-11, 522-6 F, Ap '42
Wire nails, Pittsburgh; prices, 1929-1941; tabulation. Steel 110:365 Ja 5 '42

NAME plates
Signs for the duration, and after. il Mod Plastics 19:51-4 Je '42

NAMES
See also
Ships—Names

NAMES, Personal
What's your name? L. Adamic. 248p $2.50 Harper '42

NAMES, Plant. See Plant names, Popular

NAMES of products. See Trade marks; Trade names

NAPHTHA
Crude naphtha stabilizer performance. J. Q. McGiffin. flow diag bibliog il diags Am Inst Chem Eng Trans 38:761-88 Ag '42; Same. Nat Pet N 34 pt 2:R277-80, R282, R284-5 Ag 26 '42; Discussion. Am Inst Chem Eng Trans 38:789-90 Ag '42
Determination of fumigants; composition of heavy coal-tar naphtha. N. F. Sarsfield. diag Soc Chem Ind J 61:1-6 Ja '42
Hydrocarbon-water solubilities at elevated temperatures and pressures. J. Griswold and J. E. Kasch. bibliog Ind & Eng Chem 34:804-6 Jl '42
Limiting flow in liquid-liquid extraction columns; naphtha-water and methyl isobutylketone water systems. F. H. Blanding and J. C. Elgin. bibliog diags Am Inst Chem Eng Trans 38:305-35; Discussion. 335-8 Ap '42
Phase equilibria at high temperatures. R. R. White and G. G. Brown. flow diag bibliog diags Ind & Eng Chem 34:1162-74 O '42; Same. Nat Pet N 34 pt 2:R374, R376-8, R380-1, R432-5 O 28, N 25 '42
Some peculiarities in the *P-T* border curves of mixtures of hydrogen and a petroleum naphtha. W. B. Kay. bibliog Chem R 29:501-7 D '41
Thermodynamics in isomerization. P. Buthod and W. L. Nelson. Oil & Gas J 40:120-1 Mr 26 '42
Viscosity of naphtha-resin solutions. E. H. McArdle and E. L. Baldeschwieler. Ind & Eng Chem 34:882-5 Jl '42
See also
Gasoline

Analysis

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42
Moisture determination in non-polar compounds. H. Loughnane. diags Electronics 15:98-100 Ag '42

NAPHTHALENE
Arsine oxides and naphthalene and biphenyl. G. O. Doak, H. Eagle and H. G. Steinman. bibliog Am Chem Soc J 64:1064-6 My '42
Chemicals from petroleum; naphthene-naphthalene. W. T. Ziegenhain. Oil & Gas J 41:32 N 5 '42
Condensations by sodium; reactions of amylsodium with naphthalene, acenaphthene and decalin. A. A. Morton and others. bibliog Am Chem Soc J 64:2250-3 O '42
Invert soaps of naphthalene. J. B. Niederl and H. Weingarten. bibliog Am Chem Soc J 63:3534-5 D '41
Naphthalene placed under WPB control. Nat Pet N 34:14 My 13 '42

NAPHTHALENE—*Continued*

Naphthalene under allocation. Oil Paint & Drug Rep 141:7+ My 11 '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

Study of diethyl 1,4-dihydroxy-2,3-naphthalate. A. H. Homeyer and V. H. Wallingford. Am Chem Soc J 64:798-801 Ap '42

Synthesis of 2,7-naphthalenedialdehyde; an attempted synthesis of coronene. J. H. Wood and J. A. Stanfield. Am Chem Soc J 64:2343-4 O '42

See also

Decalin

NAPHTHALENEDIOL

Bromination of 1 : 5-dihydroxy- and 1 : 5-diacetoxy-naphthalene, 5-methoxy-1-naphthol, and 1 : 5-dimethoxynaphthalene. A. H. Carter, E. Race and F. M. Rowe. Chem Soc J p236-9 Ap '42

NAPHTHALYL chloride

Isomerization of naphthalyl chloride. H. E. French and J. E. Kircher. Am Chem Soc J 63:3270-2 D '41

NAPHTHENES

Chemicals from petroleum; naphthene-naphthalene. W. T. Ziegenhain. Oil & Gas J 41:32 N 5 '42

NAPHTHENIC acids

Naphthenic acid under allocation control. Oil Paint & Drug Rep 141:7+ My 11 '42

Naphthenic acids; manufacture, properties, and uses; patents. E. R. Littmann and J. R. M. Klotz. Chem R 30:97-111 bibliog(p107-11) F '42

Synthesis and characterization of some tertiary naphthenic acids. B. Shive, W. W. Crouch and H. L. Lochte. bibliog Am Chem Soc J 63:2979-84 N '41

Trans - 2,2,6 - trimethylcyclohexanecarboxylic acid; a second solid naphthenic acid from California petroleum. B. Shive and others. bibliog Am Chem Soc J 64:385-91 F '42

NAPHTHOIC acid

Aminohydroxynaphthoic acids. I. V. Hopper, A. C. Syme and F. J. Wilson. bibliog(71 references) Soc Dyers & Col J 58:93-7 My '42

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

NAPHTHOL AS

Colour changes of dyeings of vat and azoic dyes by wet and dry heat. E. Kornreich. bibliog il Soc Dyers & Col J 58:177-83 S '42

Printing of colored resists under azoic colors; patent. Textile Col 64:480 O '42

Studies in the naphtol AS series; synthetical experiments. R. V. Bhat, R. B. Forster and K. Venkataraman. bibliog Soc Dyers & Col J 56:166-78; 58:155-61, 203-6 Ap '40, Ag, O '42

NAPHTHOLS

Studies in the naphtol AS series; synthetic experiments; synthesis of naphthols with paraffin chains. R. V. Bhat, S. R. Ramachandran and K. Venkataraman. bibliog Soc Dyers & Col J 58:203-6 O '42

Synthesis of pentyl- and hexyl-α-naphthol. Y. Chi and C. Jang. Am Chem Soc J 63:3155-6 N '41

NAPHTHOQUINONE

Alkylation of α-naphthoquinones with esters of tetravalent lead. L. F. Fieser and F. C. Chang. bibliog Am Chem Soc J 64:2043-52 S '42

Preparation of 2-methyl-3-*n*-hexadecyl-1,4-naphthoquinone. M. Tishler and N. L. Wendler. Am Chem Soc J 63:3235-6 N '41

See also

Vitamins—Vitamin K

NAPHTHYL group

Dissociation of hexaarylethanes; the effect of naphthyl and biphenyl groups. C. S. Marvel and others. Am Chem Soc J 64:1824-5 Ag '42

NAPHTHYLAMINE

Cleavage of arylazo-β-naphthylamines by alcoholic hydrochloric acid. H. H. Hodgson and C. K. Foster. Chem Soc J p755-7 N '41

Decomposition of arylazo-β-naphthylamines by sodium nitrite and glacial acetic acid. H. H. Hodgson and C. K. Foster. bibliog Chem Soc J p30-3 Ja '42

Some reactions of the diazonium salts of certain arylazo-β-naphthylamines. H. H. Hodgson and C. K. Foster. Chem Soc J p435-7 Jl '42

NARCOTICS

Basic mechanism in the biological effects of temperature, pressure and narcotics. F. H. Johnson, D. Brown and D. Marsland. Science 95:200-3 F 20 '42

Cannabis indica; further analogues of tetrahydrocannabinol. P. B. Russell and others. Chem Soc J p826-9 D '41

Cannabis indica; the isolation of 3′ : 4′ : 5′ : 6′-tetrahydrodibenzopyran derivatives from pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

Enzyme action; reduced by narcotics. H. C. Eyster. Science 96:140-1 Ag 7 '42; Discussion. E. Geiger. 96:426 N 6 '42

Narcotic drug purchases held to 1940 needs. Oil Paint & Drug Rep 141:7 F 9 '42

Narcotic potency of biurets containing piperidine. H. H. Anderson and others. bibliog Science 95:254-6 Mr 6 '42

Optically active synthetic tetrahydrocannabinols; *d*- and *l*-1-hydroxy-3-*n*-amyl-6,9,9-trimethyl-7,8,9,10-tetrahydro-6-dibenzopyrans. R. Adams, C. M. Smith and S. Loewe. bibliog Am Chem Soc J 64:2087-9 S '42

Paregoric sale licensing to be sought; legitimate distribution of narcotic drugs. Oil Paint & Drug Rep 141:4+ F 9 '42

Tetrahydrocannabinol homologs and analogs with marihuana activity. R. Adams and others. Am Chem Soc J 64:694-7 Mr '42

See also

Anesthetics
Demerol
Hypnotics
Marihuana
Opium

NASCENT state

Nascent state. J. H. Reedy and E. D. Biggers. bibliog J Chem Educ 19:403-6 S '42

NASH, Alfred William, 1886-1942

Sketch, tributes. por(front) Inst Pet J 28:97-101 Je '42

NASH-KELVINATOR corporation

Earnings, years ended Sept. 30, 1939-1941. Comm & Fin Chr 155:192 Ja 13 '42

Flying boat plant in the South. il Manuf Rec 111:31+ O '42

Industry converts rapidly to making war materials; Nash-Kelvinator wartime aircraft industry. Refrig Eng 44:86 Ag '42

Motor cars to munitions. il Am Mach 86:599-601 Je 11 '42

NASHVILLE, Chattanooga and St Louis railway

Bond selector; first mortgage 4s, 1978. Comm & Fin Chr 155:322 Ja 22 '42

Traffic statistics and income account, 1940 and 1941. Comm & Fin Chr 155:2186 Je 8 '42

NASHVILLE, Tennessee

Water supply

Comprehensive survey of large meters in Nashville. R. L. Lawrence, jr. and A. R. Sharp. Am Water Works Assn J 34:121-9 Ja '42

NAST, Condé, 1874-1942

Portrait. Ptr Ink 200:30 S 25 '42

Sketch. por Arch Forum 77:112 O '42

NATHAN, Robert Roy, 1908-

Portrait. Business Week p7 F 28 '42

NATION planning

Building for victory and the future. T. S. Holden. il Arch Rec 91:44-6+ My '42

Sense of the meeting; A.I.A. in Detroit. Arch Rec 92:38-9+ Jl '42

See also

Land utilization

NATIONAL academy of sciences

Officers and new members. Science 95:475 My 8 '42

War metallurgy committee

Metallurgical research; results of eighteen months' operation of Metals and minerals advisory committee of War metallurgy committee. Science 96:42-3 Jl 10 '42; Same. Chem & Eng N 20:976+ Ag 10 '42

War metallurgy committee will co-ordinate research activities. Steel 111:72-3 Jl 6 '42; Am Cer Soc Bul 21:159-60 Ag 15 '42

Work of the War metallurgy committee. Science 96:sup8 Jl 24 '42

NATIONAL advertising. See Advertising, National

NATIONAL advisory committee for aeronautics. See United States—National advisory committee for aeronautics

NATIONAL association for printing education

Educators form new group. Inland Ptr 108:75 N '41

NATIONAL association of accident and health underwriters

Accident association head names committees. Weekly Underw 147:283 Ag 8 '42

Accident men have spirited organization. C. E. Dalrymple. Weekly Underw 146:82-3 Ja 3 '42

Annual convention, 13th, Detroit, June 29-July 1. East Underw 43:1, 25-30 Jl 3; 32-4 Jl 10 '42; Ins Field (Fire ed) 71:7-8, 20-1 Jl 2 '42; Ins Field (Life ed) 71:5-6+ Jl 3 '42; Nat Underw 46:17-18 Jl 2 '42; Nat Underw (Life ed) 46:4 Jl 3 '42; Spectator (Property ed) 8:10-12 Jl 9 '42; Weekly Underw 147:37 Jl 4 '42

Mid-year convention, Kansas City, Mo., Jan. 26-28. East Underw 43:33 Ja 30; 34 F 6; 37-8 F 13 '42; Ins Field (Fire ed) 71:24 Ja 29 '42; Ins Field (Life ed) 71:22-3+ Ja 30 '42; Nat Underw 46:19+ Ja 29 '42; Weekly Underw 146:261+ Ja 31 '42

NATIONAL association of broadcasters

Annual convention, Cleveland. Ptr Ink 199:28, 31 My 22 '42

NAB vs Petrillo: innocent stand-by gets hurt. B. B. Smith. Adv & Sell 35:18, 82-3 N '42

Networks feud. Business Week p14 My 16 '42

NATIONAL association of cost accountants

Annual meeting, 22d, New York, June 25; reports of officers and directors. N A C A Bul 23:553-85 sec 3 D 15 '41

Officers and directors, 1942-43. N A C A Bul 23:1593-1651 sec 3 Ag 1 '42

Bibliography

Complete topical index, N.A.C.A. publications, April, 1920 to January, 1942. N A C A Bul 23:715-89 sec 3 Ja 15 '42

NATIONAL association of cotton manufacturers

Annual meeting, Boston, Oct. 1. Textile World 92:72-3 O '42

NATIONAL association of credit men

Annual Credit congress, 47th, Cleveland. Credit & Fin Management 44:24-32+ Je '42

54 national defense committees now at work in NACM; pooling arrangement in securing government contracts. Credit & Fin Management 44:28-9+ Mr '42

Insurance group meeting, Cincinnati, May 13. East Underw 43:22 My 22 '42; Nat Underw 46:1 My 21 '42

National officers, directors and committee personnel, 1942-1943. Credit & Fin Management 44:28-31 S '42

News about credit matters. Published in monthly numbers of Credit and financial management

Officers, directors and national committees, 1941-1942. Credit & Fin Management 44:42-5 Ja '42

Statement of policy at 47th Credit congress. Credit & Fin Management 44:19-20 Jl '42

Statement on proposed new constitution and by-laws and text by presentation committee appointed by National board of directors. Credit & Fin Management 44:38-46 Mr '42

Credit interchange service

Credit interchange problem. M. V. Johnston. Credit & Fin Management 44:8-9 O '42

Our own credit interchange; its added effectiveness under present conditions. G. C. Klippel. Credit & Fin Management 44:8-10+ Je '42

Fraud prevention department

Guarding the nation's profits; something about fraud prevention. H. Bailey. Credit & Fin Management 43:22-3 D '41

NATIONAL association of die casting workers

This labor-management hookup gets things done. J. Garth. il Am Business 12:9-11 Jl '42

NATIONAL association of frozen food packers

Food freezers organize. Food Ind 14:73 F '42

NATIONAL association of home builders

Two national builder groups merge; National home builders association and Home builders institute of America. Am Bld 64:77 Ag '42

NATIONAL association of hosiery manufacturers

Annual meeting, New York, May 6. Textile World 92:74 Je '42

NATIONAL association of independent insurance adjusters

Annual meeting, St Louis, June 11-13. Ins Field (Fire ed) 71:13+ Je 18 '42; Nat Underw 46:21-3 Je 18 '42; Weekly Underw 146:1403+ Je 20 '42

Current problems discussed; executive committee meeting. Weekly Underw 147:927+ O 17 '42

NATIONAL association of insecticide and disinfectant manufacturers

Annual meeting, 28th, New York, Dec. 1-2. Soap & San Chem 17:112-14 D '41; 18:90-6+ Ja '42; Chem Ind 49:826-7 D '41; Oil Paint & Drug Rep 140:7+ D 8 '41

Annual mid-year meeting, 28th, Chicago, June 8-9. Soap & San Chem 18:102-7 Je; 92-7+ Jl '42; Oil Paint & Drug Rep 141:7+ Je 15 '42; Chem Ind 51:84-8, 106 Jl '42

NATIONAL association of insurance agents

Agents association names four new members on executive committee. East Underw 42:1+ N 21 '41; Nat Underw 45:3+ N 20 '41

Agents file proposals on war damage. Weekly Underw 146:761+ Ap 4 '42

Agents rally to national defense. R. W. Forshay. Weekly Underw 146:42-4 Ja 3 '42

Agents will abandon 1943 mid-year meet; executive committee meets. East Underw 43:16+ O 30 '42; Nat Underw 46:1+ O 29 '42

Annual convention, 47th, Chicago, Sept. 21-24. Ins Field (Chicago Conv Daily ed) 71:1-23 S 22; 1-23 S 23; 1-23 S 24 '42; East Underw 43:1+ S 25; 18 O 2 '42; Nat Underw 46:1+ S 24; 3+ O 1 '42; Weekly Underw 147:713+ S 26 '42; Spectator (Property ed) 8:10-14+ O 1 '42

Calls for an offensive; purposes of redrafted N.A.I.A. constitution; address before Michigan agents. W. H. Bennett. Ins Field (Fire ed) 71:8-9+ S 10 '42; Same abr. East Underw 43:16+ S 11 '42; Excerpts. Weekly Underw 147:485+ S 5 '42

Cites uses for Agents' new strength; address at Nashville; abstracts. D. A. North. East Underw 43:16+ O 23 '42; Weekly Underw 147:926-7 O 17 '42

Committee and public relations plans of agents; address at Augusta. D. A. North. East Underw 43:21 O 30 '42

Committees for year. East Underw 42:20+ N 28 '41

Convention turn out advocated; deems meeting essential as war contribution. W. H. Bennett. Weekly Underw 147:12+ Jl 4 '42

Coordination board sets up War division. Weekly Underw 146:522+ Mr 7 '42

Defends costs of National Association. W. H. Bennett. East Underw 43:20+ My 15 '42

Educational program of N.A.I.A. completed. G. W. Scott. Nat Underw 46:5+ Ap 16 '42; Same abr. East Underw 43:36 Ap 17 '42

NATIONAL association of insurance agents—*Continued*

First NAIA official speech; stresses importance of unity. F. A. Moreton. Weekly Underw 147:858+ O 10 '42

Indiana suggests new plan for making National association more democratic. Nat Underw 46:2 Je 18 '42

Large company representation features agents' association meeting, Chicago. Weekly Underw 147:786+ O 3 '42

Messages; yesterday, today. E. M. Allen. Ins Field (Chicago Conv Daily ed) 71:11 S 22; 11 S 23 '42

Mid-year convention, New York, April 13-15. East Underw 43:1+ Ap 17; 22 Ap 24 '42; Ins Field (Fire ed) 71:6-12 Ap 16; 7+ Ap 23 '42; Nat Underw 46:3+ Ap 16; 2+ Ap 23 '42; Spectator (Property ed) 7:12-13+ Ap 16 '42; Weekly Underw 146:873+ Ap 18 '42

NAIA completes roster of executive committee. Weekly Underw 147:781+ O 3 '42; Nat Underw 46:3+ O 8 '42

N.A.I.A. democratic set-up seen in constitution revision. East Underw 43:16+ Ag 7 '42; Nat Underw 46:1+ Ag 6 '42; Weekly Underw 147:261+ Ag 8 '42

N.A.I.A. reaches membership peak. Nat Underw 46:1 Jl 16 '42

New York agents' ass'n seeks revisions in national constitution. E. N. Eager. East Underw 43:1+ My 15 '42

New York City agents decide to resign from N.A.I.A. Ins Field (Fire ed) 71:7+ Je 11 '42; Nat Underw 46:3 Je 11 '42

New Yorkers to stay in NAIA. Weekly Underw 147:357+ Ag 22 '42; East Underw 43:28 Ag 21 '42

Ohioans move to return to N.A.I.A. Nat Underw 46:13-14+ O 22 '42

Security to assist new V-plan board; to sponsor certain expenses. East Underw 42:23 D 19 '41

Sees determination to stop further inroads on agency system; talk before Wisconsin agents. W. H. Bennett. East Underw 43:20 S 18 '42

Taking a glimpse backward; some recollections of the organization meeting. C. M. Cartwright. Nat Underw 46:2+ S 17 '42

Text of constitution. Ins Field (Chicago Conv Daily ed) 71:2+ S 23 '42

Van Wiseman is out of National Association. East Underw 43:20 My 1 '42; Nat Underw 46:4 Ap 30 '42; Spectator (Property ed) 7:9 Ap 30 '42

NATIONAL association of insurance commissioners

Annual convention, 73d, Denver, June 8-10. East Underw 43:1+ Je 12 '42; Ins Field (Fire ed) 71:7-8+ Je 11; 7 Je 18 '42; Ins Field (Life ed) 71:5-6, 18-19 Je 12; 7 Je 19 '42; Nat Underw 46:1+ Je 11 '42; Nat Underw (Life ed) 46:1, 14-15 Je 12 '42; Spectator (Life ed) 148:8-9+ Je 18 '42; Weekly Underw 146:1335-6 Je 13 '42

Midyear meeting, New York, Dec. 8-10. East Underw 42:83+ D 12; 24+ D 19 '41; Ins Field (Fire ed) 70:7-8+ D 11 '41; Ins Field (Life ed) 70:7-8+ D 12 '41; Nat Underw 45:3+ D 11 '41; Nat Underw (Life ed) 45:3+ D 12 '41; Spectator (Property ed) 7:10-11+ D 11 '41; Weekly Underw 145:1324+ D 13 '41

NATIONAL association of insurance women

Annual convention, 3d, St Paul, June 24-27. East Underw 43:19 Je 26; 15 Jl 3 '42; Ins Field (Fire ed) 71:7-8, 26-7 Je 25; 22, 24-6 Jl 2 '42; Nat Underw 46:2+ Je 25; 3+ Jl 2 '42; Spectator (Property ed) 8:20-1+ Jl 9 '42; Weekly Underw 146:1437, 1446 Je 27 '42

Your association; how to organize new N.A.I.W. clubs. E. Brink. Ins Field (Fire ed) 71:24-5 Jl 9 '42

NATIONAL association of life underwriters

Annual convention, 53d, Chicago, Aug. 17-19. East Underw 43:1+ Ag 21 '42; Ins Field (Life ed) Conv ed 71:7-33 Ag 19 '42; Nat Underw (Life ed) Daily ed 46:3-32 Ag 18; 3-32 Ag 19; 3-32 Ag 20 '42; Weekly Underw 147:360+ Ag 22 '42

Association makes its mark in legislative field. Nat Underw (Life ed) 46:15 Ag 21 '42

Committees selected for 1941-42 administration. East Underw 42:9 N 14 '41

Continue conferences. Weekly Underw 146:501 F 28 '42

Fieldmen feel lack of full support from executives; address at American life convention meeting. G. Taggart. East Underw 43:8 O 9 '42

Jas. E. Rutherford new executive head. East Underw 43:1+ Jl 24 '42; Nat Underw (Life ed) 46:1+ Jl 24 '42

Midyear meeting, Memphis. East Underw 43:1+ Ap 3 '42; Ins Field (Life ed) 71:5+ Ap 3 '42; Nat Underw (Life ed) 46:1+ Ap 3 '42; Weekly Underw 146:797+ Ap 4 '42

Name N.A.L.U. committees for new year. Nat Underw (Life ed) 46:5 O 2 '42

N.A.L.U. acts to aid agents. G. Taggart. Nat Underw (Life ed) 46:1+ O 30 '42

NALU program of objectives. J. A. Witherspoon. Weekly Underw 145:1100+ N 8 '41; Same abr. East Underw 42:14 N 7 '41

N.A.L.U. to hold war convention in Chicago; Minneapolis plans called off. Nat Underw (Life ed) 46:1+ Je 19 '42

Opens fight on chairman of board plan. O. S. Cummings. Nat Underw (Life ed) 46:1+ Jl 31 '42

Opposes N.A.L.U. proposal; salaried board chairman project. L. O. Schriver. Nat Underw (Life ed) 46:4 Ag 7 '42

Witherspoon asks withhold judgment on chairman issue. Nat Underw (Life ed) 46:1 Ag 14 '42

NATIONAL association of manufacturers

Annual convention, New York. Business Week p14 D 6 '41

Congress of American industry, New York. Steel 109:29-31+ D 8 '41; Comm & Fin Chr 154:1686-7 D 27 '41; Elec Eng 61:53-5 Ja '42

Platform adopted by Congress of American industry favors single defense agency. Comm & Fin Chr 154:1464-5 D 11 '41; Same abr. Oil Paint & Drug Rep 140:7+ D 8 '41

Preparing for postwar problems; practical program for industry. Oil Paint & Drug Rep 142:3+ Ag 10 '42

Research advisory committee

Research advisory committee of the National association of manufacturers. Science 96:267 S 18 '42

NATIONAL association of margarin manufacturers

Margarin manufacturers association revived. Oil Paint & Drug Rep 141:7 F 23 '42

NATIONAL association of master plumbers

Annual meeting, 60th, Richmond, Va. June 1-4. Dom Eng 159:46+ Je; 44-5+ Jl '42

NATIONAL association of motor bus operators

Annual meeting, Chicago. Bus Transportation 21:457-61 O '42; Transit J 86:387-8 O '42

NATIONAL association of mutual insurance agents

Annual convention, Pinehurst, N.C. Nat Underw 45:6 N 6 '41

Annual meeting, 11th, New York, Oct. 12-14. Weekly Underw 147:912+ O 17 '42; Nat Underw 46:3+ O 15 '42

NATIONAL association of mutual insurance companies

Annual convention, Los Angeles. Nat Underw 45:5+ N 6 '41

NATIONAL association of mutual savings banks

Levi P. Smith heads savings assn.; talk to the conference. Comm & Fin Chr 155:1860 My 14 '42

NATIONAL association of purchasing agents

Annual international convention, New York, May 25-27. Oil Paint & Drug Rep 141:3+ Je 1 '42; Steel 110:32-5+ Je 1 '42

NATIONAL association of real estate boards
Annual convention, Detroit, Nov. 4-7. Comm & Fin Chr 154:1230 N 27 '41; Arch Forum 75:sup52+ D '41
Committee officials, 1942. Comm & Fin Chr 155:563 F 5 '42
Realtors, lawyers form conference group. Comm & Fin Chr 156:25 Jl 2 '42
See also
Home builders institute of America

NATIONAL association of secretaries of state
Proceedings, 24th conference, Los Angeles, Aug. 27-30, 1941. 51p pa $1 Council of state governments, 1313 E. 60th st, Chicago '41

NATIONAL association of securities dealers
Balloting results on NASD minimum capital amendment far from conclusive. Comm & Fin Chr 156:265+ Jl 23 '42
Business conduct committee of NASD district 13 receives secretary's report on activity. Comm & Fin Chr 156:451 Ag 6 '42
Committees and chairmen announced. Comm & Fin Chr 155:835+ F 26 '42
Dewar elected NASD chairman; other officers named at meeting of the Board of governors. Comm & Fin Chr 155:315 Ja 22 '42
Divided dealers. Business Week p61+ Ag 1 '42
Few NASD members required disciplining. W. H. Fulton. Comm & Fin Chr 156:885 S 10 '42
Interprets decision of numerous dealers to refrain from voting on minimum capital plan. Comm & Fin Chr 156:355 Jl 30 '42
Minimum capital proposal asks for blank check to rule members. Comm & Fin Chr 155:2377 Je 25 '42
Minimum capital proposal would abolish cherished American tradition. Comm & Fin Chr 156:89+ Jl 9 '42
NASD executive committee submits report opposing SEC bid asked disclosure rule to Commission. Comm & Fin Chr 156:1519+ O 29 '42
N.A.S.D. seeks to drive all small securities houses out of business. J. Haynes. Comm & Fin Chr 155:2289+ Je 18 '42
NASD surveys members on business methods. Comm & Fin Chr 155:1231 Mr 26 '42
Official results of vote on NASD minimum capital amendment. Comm & Fin Chr 156:453 Ag 6 '42
Proposes changes in by-laws; establishes minimum capital requirement. Comm & Fin Chr 155:2290+ Je 18 '42
Rift in N.A.S.D. Business Week p89-90 Je 27 '42
SEC to hold public hearings on minimum capital proposal. Comm & Fin Chr 156:443 Ag 6 '42
SEC told that NASD could not get counsel to approve legality of minimum capital plan. F. Dunne. Comm & Fin Chr 156:705+ Ag 27 '42
Some reactions of security firms to NASD minimum capital proposals. Comm & Fin Chr 155:2378+; 156:2+, 90+, 179, 267, 617+, 620+ 875 Je 25, Jl 2, 9, 16, 23, Ag 20, S 10 '42
Text of SEC's opinion disapproving proposed minimum capital by-law of NASD. Comm & Fin Chr 156:1618, 1627+ N 5 '42
Text of statement in SEC hearing on minimum capital proposal. F. Dunne. Comm & Fin Chr 156:625 Ag 20 '42

NATIONAL association of sheet metal distributors
Annual meeting, Atlantic City, Oct. 15. Sheet Metal Worker 32:69-70 N '41
Semi-annual meeting, Chicago. Steel 111:32, 50 O 26 '42

NATIONAL association of shippers advisory boards
Annual meeting, Chicago, Nov. 10-11. Ry Age 111:792-5 N 15 '41
Annual meeting, Chicago, Oct. 16. Ry Age 113:640-2 O 24 '42
What the shippers are doing; co-operation between carriers and their customers. il Ry Age 112:1036-40 My 23 '42

NATIONAL association of tax administrators
Revenue administration, 1941; proceedings, 9th annual conference, Lexington, Ky., June 9-12, 1941. 66p Federation of tax administrators, 1313 E. 60th st, Chicago '42

NATIONAL association of transportation advertising
National transportation advertising association formed. Ptr Ink 198:30 Mr 13 '42
Transit rise to 20 billion fares reflects markets' rapid growth. Sales Management 51:36+ N 1 '42

NATIONAL association of wool manufacturers
Annual meeting, New York, April 8. Textile World 92:77 My '42

NATIONAL automobile insurance company
Company analysis. Spectator (Property ed) 8:38-9 O 1 '42

NATIONAL aviation corporation
Annual report. Comm & Fin Chr 155:603 F 7 '42
Brief appraisals of factors influencing market values. H. Lawrence. Barron's 22:13 O 5 '42

NATIONAL banks. See Banks and banking, National

NATIONAL biscuit company
Another look. Mag of Wall St 70:651 O 3 '42
Consolidated income statement for calendar years, 1938-1941. Comm & Fin Chr 155:828 F 24 '42

NATIONAL bituminous coal commission
National bituminous coal commission: administration of the Bituminous coal act, 1937-1941. R. H. Baker. 356p bibliog(p331-44) $3.50; pa $3 Johns Hopkins press, Baltimore '41

NATIONAL board of fire underwriters
Annual meeting, 76th, New York, May 28. East Underw 43:1, 19-20, 22 My 29 '42; Ins Field (Fire ed) 71:7-8 My 28 '42; Nat Underw 46:3+, 4+ Je 4 '42; Spectator (Property ed) 7:10-12+ My 28 '42; Weekly Underw 146:1205-9 My 30 '42
Committees for 1942 announced. East Underw 43:27 Je 12 '42
How advertising can build business. R. P. Barbour. Weekly Underw 146:24+ Ja 3 '42
"Pioneers of progress" tells of services of organization since founded. East Underw 43:26 F 13 '42
Publications. Safety Eng 82:20-1 N '41

NATIONAL bondholders corporation
Distributions. Comm & Fin Chr 155:364 Ja 24 '42

NATIONAL brands. See Advertising, National

NATIONAL broadcasting company
Mutual broadcasting system sues RCA-NBC; charges unlawful combination and conspiracy to restrict free and fair competition in radio field. Comm & Fin Chr 155:192 Ja 13 '42
NBC red network had banner year in 1941. Comm & Fin Chr 155:307 Ja 20 '42
NBC sells artists service. Ptr Ink 197:71 D 19 '41
Network divorce? signs point to separation of NBC's Blue from Red chain by creating new corporation. Business Week p58-9 D 13 '41
Networks win court review of FCC rules. Comm & Fin Chr 155:2369 Je 22 '42

NATIONAL bureau of casualty and surety underwriters
Annual meeting, New York, May 13. East Underw 43:28 My 15 '42; Ins Field (Fire ed) 71:24 My 21 '42; Weekly Underw 146:1122 My 16 '42
Commended for war work. Ins Field (Fire ed) 71:8-9 O 1 '42; East Underw 43:43+ S 25 '42
N.Y. report on National bureau. Nat Underw 46:19+ Ja 15 '42

NATIONAL bureau of standards. See United States—Standards, National bureau of

NATIONAL canners association
Annual meeting, 35th, Chicago, Jan. 25-30. Steel 110:26 F 2 '42; Mod Packaging 15:60, 62+ Mr '42

NATIONAL cash register company
Another look at your company. Mag of Wall St 70:232-3 Je 13 '42
Good earnings despite higher taxes. S. Devlin. Mag of Wall St 70:518-19 Ag 22 '42
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:594 S 19 '42

NATIONAL casualty company, Detroit
Company analysis. Spectator (Property ed) 7:34-5+ D 11 '41

NATIONAL city bank of New York
Annual report to stockholders. G. S. Rentschler. Comm & Fin Chr 155:338 Ja 22 '42
Celebrates 130 years of service. Bankers Mo 59:329 Jl '42
National City on the alert. Bankers M 144: 258-9 Mr '42

NATIONAL concrete masonry association
Annual meeting, Buffalo, Jan. 12-14. Concrete 50:10-13, 16, 20 F '42; Rock Prod 45:77-83+ F '42
Kansas City and Atlanta meetings. Concrete 50:11-14+ Mr '42; Rock Prod 45:77-8 Mr '42

NATIONAL conference group
Modernizing trust law; opportunities for joint endeavor by lawyers and trust men. W. P. Armstrong. Trusts & Estates 74:215-17 F '42

NATIONAL conference on labor legislation, Washington
Conference, 8th, Nov. 12-14. Monthly Labor R 53:1450-1 D '41
Conference, 8th, Washington, D.C. Nov. 9-14, 1941. Int Labour R 45:426-9 Ap '42

NATIONAL conference on weights and measures
Cancellation of annual meeting. Science 96: 374-5 O 23 '42

NATIONAL conservation bureau
Bureau now in midst of vital wartime program. J. H. Harvey. East Underw 43:30 Ag 7 '42

NATIONAL consumer-retailer council
Going local; war conditions open way for National council to put its consumer-retailer relations program on city-by-city basis. Business Week p50+ Mr 28 '42
National consumer-retailer council publications of interest to teachers. J Retailing 18:89+ O '42

NATIONAL cooperatives, inc.
Co-op label gains; National cooperatives, inc. holds first merchandising clinic. Business Week p60-3 Je 27 '42
Cooperatives to use standards for all grocery products. Ind Stand 12:307 N '41

NATIONAL cotton council of America
Annual meeting, 4th, Jackson, Miss. Jan. 26-28. Textile World 92:100 F '42

NATIONAL cottonseed products association
Annual meeting, Houston, May 4-5. Oil Paint & Drug Rep 141:49 My 18 '42

NATIONAL council of gas, coke and chemical workers
Lewis foes unite; gas, coke, chemical workers organize new union. Business Week p43 S 26 '42

NATIONAL council of independent petroleum associations
New national association formed by jobber groups. Nat Pet N 34:3+ O 7 '42

NATIONAL council of private motor truck owners
Annual meeting, Washington, Jan. 27-28. Nat Pet N 34:18 F 4 '42

NATIONAL council on compensation insurance
Report at annual meeting. W. F. Roeber. East Underw 42:102 D 12 '41

NATIONAL crushed stone association
Annual meeting, 25th, Cincinnati, Feb. 24. Rock Prod 45:44-5, 48-59 Mr '42

NATIONAL cylinder gas company
Favored stocks priced from $1 to $10. Mag of Wall St Manual p9 Ap '42
Thumbnail stock appraisal. Mag of Wall St 69:148 N 15 '41

NATIONAL dairy products corporation
Annual report. Comm & Fin Chr 155:1313-14 Mr 30 '42
How the dairy companies are adjusting to war. A. B. Wells. il Mag of Wall St 69: 702-4+ Ap 4 '42

NATIONAL defense mediation board (now National war labor board)
Activities of Board; tabulation. Monthly Labor R 53:982-3, 1425-6 O, D '41
NDMB into NWLB. Business Week p61+ Ja 17 '42
NDMB's quietus? if C.I.O. boycott continues, Board may be supplanted by new agency. Business Week p75 N 15 '41

NATIONAL defense research committee
Chemists and the national defense. J. B. Conant. News Ed 19:1237-8 N 25 '41; Same. Science 94:563-4 D 12 '41
Mobilization of science in national defense. F. B. Jewett. Science 95:235-41 Mr 6 '42; Same. Inst Radio Eng Proc 30:113-18 Mr '42; Same abr. Mech Eng 64:13-16 Ja '42
Science and national defense. V. Bush. J Ap Phys 12:823-6 D '41; Same. Science 94: 571-4 D 19 '41

NATIONAL discount company
Ordinary annual general meeting, London. Economist 142:164 Ja 31 '42

NATIONAL distillers products corporation
Annual report. Comm & Fin Chr 155:1015-16 Mr 9 '42
Debentures offered. Comm & Fin Chr 155: 1922-3 My 18 '42
How National Distillers is adjusting to war. A. B. Wells. il Mag of Wall St 69:654-5, 676-7 Mr 21 '42
Outstanding stocks for income and profit. Mag of Wall St 70:442 Ag 8 '42
Stocks cheap under highest taxes. P. Dobbs. Mag of Wall St 70:255-6 Je 13 '42
Thumbnail stock appraisal. Mag of Wall St 69:264 D 13 '41

NATIONAL district heating association
Annual meeting, 33d, Dayton, June 11-12. Heat & Ven 39:30-2 Jl '42; Heating-Piping 14:403-4 Jl '42

NATIONAL drug trade conference
Annual meeting, Washington, D.C. Oil Paint & Drug Rep 140:3+ D 15 '41

NATIONAL electrical code
Non-metallic sheathed cable wiring; under code amendment nos. 43 and 44. E. S. McConnell. Edison Elec Inst Bul 10:337-9 S '42
Revisions of National electrical code, 1940 edition. J. C. Langdell. Edison Elec Inst Bul 9:451-5 N '41
Two new electrical code amendments. Elec W News ed 118:690 Ag 29 '42
War-time developments in electric wiring. E. S. McConnell. Edison Elec Inst Bul 10: 93-4 Mr '42
Wartime enforcement of the National electrical code; commonsense review of interior wiring standards is required. S. B. Clark. Elec West 88:41-2 My '42

NATIONAL electrical manufacturers association
Annual meeting, New York. Elec W News ed 118:1515-16 N 7 '42

NATIONAL electrical safety code
Crossing requirements of the safety code; fourth and fifth editions compared. W. L. Cone and C. C. Gaddis. Elec West 88:39-41 My '42; Discussion. 88:98-9 Je '42
Safety rules for electrical work are brought up-to-date; fifth edition of National electrical safety code approved by American standards association. A. B. Campbell. Ind Stand 13:29-32 F '42

NATIONAL emergency steels. See Steel—Standards

NATIONAL federation of sales executives
Annual conference, 7th, New York. Sales Management 50:56-7+ Je 15 '42
Convention in New York. Ptr Ink 199:19 Je 12 '42

NATIONAL federation of textiles
Directors' meeting, May 13. Textile World 92:73 Je '42

NATIONAL fertilizer association
Annual convention, Hot Springs, Va. June 18-20. Oil Paint & Drug Rep 141:7+ Je 22; 3+ Je 29 '42; Chem Ind 51:54-6, 105 Jl '42
Annual southern convention, 17th, Atlanta, Nov. 17-19. Oil Paint & Drug Rep 140:3+ N 24 '41

NATIONAL fire protection association
Annual meeting, 46th, Atlantic City, May 11-15. Ins Field (Fire ed) 71:12-13 My 14 '42; Nat Underw 46:1+ My 14; 3+ My 21 '42; Spectator (Property ed) 7:16-17+ My 14; 13-14 My 28 '42; Weekly Underw 146:1101+ My 16 '42
Fire control in wartime. P. Bugbee. Weekly Underw 146:28+ Ja 3 '42
Fire protection association amends rules on air conditioning and welding. Heating-Piping 14:409 Jl '42

NATIONAL foreign trade council
New revised foreign trade definitions. L. Kerr. Bankers M 144:12-18 Ja '42

NATIONAL foundation for infantile paralysis
Grants. Science 95:116 Ja 30 '42

NATIONAL founders' association
Annual meeting, 45th, New York, Nov. 12-13. Foundry 69:65+ D '41; Steel 109:24-5+ N 17 '41

NATIONAL fraternal congress of America
Annual meeting, 56th, Chicago, Sept. 28-Oct. 1. Ins Field (Life ed) 71:19-20 O 9 '42; Nat Underw (Life ed) 46:28 O 2; 6+ O 9 '42; Weekly Underw 147:824 O 3 '42

NATIONAL fuel gas company
Holding company owning entire capital stocks of ten operating companies, and a majority interest in several others. Pub Util 30:301-2 Ag 27 '42

NATIONAL geographic society
Brief by E. Hanson, counsel before the committee on the District of Columbia, United States Senate in re S. 2673, a bill to define the real property exempt from taxation in the District of Columbia. Chem & Eng N 20:1094-8 S 10 '42

NATIONAL grange
President greets Grange on 75th anniversary. Comm & Fin Chr 154:1339 D 4 '41

NATIONAL graphic arts emergency council
George L. Berry heads new council. Inland Ptr 108:75-6 F '42

NATIONAL gypsum company
Annual report. Comm & Fin Chr 155:1411-12 Ap 6 '42
Debenture issue approved. Comm & Fin Chr 154:1598 D 20 '41
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 Ja 5 '42
Office building; views, plans, construction outline. Arch Forum 77:62-9 O '42

NATIONAL hardwood lumber association
1941 yearbook and official report; 44th annual convention, Sept. 18-19, 1941, Atlanta. 154p pa $1 The association, 59 E. Van Buren st., Chicago '41

NATIONAL home builders' association (now National association of home builders)
Homebuilders to unite to work with government. Comm & Fin Chr 156:180 Jl 16 '42
Meeting, Philadelphia. Am Bld 64:59+ My '42

NATIONAL homes corporation
Representative prefabricator. il Arch Forum 76:89-90+ F '42

NATIONAL housing act. See Housing laws

NATIONAL housing agency
Federal housing agencies consolidate into National housing administration. Brick & Clay Rec 100:15 Mr '42
Housing agency reformed by President. Oil Paint & Drug Rep 141:7+ Mr 2 '42
Housing as usual; creation of NHA marks return of war problem to the old USHA crowd. Business Week p24+ Mr 28 '42
Housing for war; millions of war workers need decent shelter; to give it to them, we must accept billeting and requisitioning. il map Fortune 26:92-6+ O '42
NHA chief begins organization task to put agency in full operating order. Eng N 128:365 Mr 5 '42
New National housing agency created. H. D. Ralph. Burroughs Clearing House 26:15-16 Ap '42
President consolidates war housing activities in a single national agency. Am Bld 64:102 Ap '42
President merges housing agencies under single head. R. R. Dickey. Arch Rec 91:16+ Mr '42
President reorganizes government agencies. Comm & Fin Chr 155:955 Mr 5 '42
President's unification of sixteen housing agencies; with charts showing old and new housing organizations. Arch Forum 76:137, 141-2 Mr '42
Shakeup in federal housing consolidates many agencies. Eng N 128:313 F 26 '42
See also
Federal public housing authority

NATIONAL industrial advertisers association
Atlantic City meeting marks twentieth anniversary. Ind Marketing 27:13-16, 66 Ag '42
Membership roster. Ind Marketing 27:103-57 O '42
NIAA victory promotions plan available to all advertising men. il Ind Marketing 27:53+ N '42; Factory Management 100:268+ N '42
Twentieth anniversary war conference. C. B. Larrabee. Ptr Ink 200:24, 28+ Jl 10 '42
Victory plan; N.I.A.A. maps program to give the industrial advertising man a comprehensive blueprint for successful war drives. Business Week p60 N 7 '42

NATIONAL industrial conference board
Conference board elects Fred Kent chairman; other officers. Comm & Fin Chr 155:2128 Je 4 '42
List of current publications and annual index to the Economic record, the Management record, Conference board reports, Road maps of industry. 36p Nat. ind. conf. bd. '41

NATIONAL industrial sand association
Annual meeting, Chicago, June 4-5. Rock Prod 45:74-5+ Jl '42

NATIONAL industrial traffic league
Annual meeting, Chicago, Nov. 13-14. Ry Age 111:885-7 N 22 '41

NATIONAL inventors council
Fields in which new ideas would be welcome. Science 95:12 Ja 2 '42
Invention for defense. L. B. Lent. Mech Eng 64:20-2 Ja '42
Mobilizing the nation's inventive brains. Elec Eng 61:51-3 Ja '42
War! stimulus for inventions. A. Toombs. Radio N 27:13+ Je '42

NATIONAL investors corporation
Now a member of Tri-continental group. Comm & Fin Chr 155:505 Ja 31 '42

NATIONAL junior achievement, inc. See Junior achievement movement

NATIONAL labor relations act. See Labor laws and legislation—United States

NATIONAL labor relations board
Bar NLRB from plants with secret war work. Comm & Fin Chr 156:463 Ag 6 '42
C.I.O. vs. C.F.I.; steelworkers' vote spells the end of Colorado Fuel & Iron employee organization. Business Week p92-3 Ag 15 '42
Employers curbed; order by NLRB restraining M. & M. and other groups, marks end of era in Los Angeles labor history. Business Week p19-20+ D 13 '41

NATIONAL labor relations board—*Continued*

Jurisdiction sustained by Supreme court in two cases. Monthly Labor R 54:453 F '42

Labor board must clarify attitude on employer's views; Virginia electric & power company case. Oil Paint & Drug Rep 140:3+ D 29 '41

National labor board decision upholds professional status of chemists. Chem & Eng N 20:165-9 F 10 '42

NLRB amplifies technical violation ruling. Business Week p59-60 Ja 24 '42

NLRB in high; backed by War labor board. Business Week p59-60 Ag 29 '42

National labor relations board order enforceable against liquidated firm; upheld in determination of bargaining rights. Monthly Labor R 54:700-1 Mr '42

NLRB wins two. Business Week p77 My 2 '42

Public control of labor relations; a study. D. O. Bowman. 504p $5 Macmillan '42

Significant labor developments. Factory Management 100:69+ Mr; 216+ My; 212+ Je; 205-6+ Jl; 242+ S; 220+ O; 216+ N '42

Upholds Labor board in Newark Ledger case. Comm & Fin Chr 154:1672 D 25 '41

NATIONAL labor union

William H. Sylvis and the national labor union. C. Todes. 128p bibliog(p117-20) 75c International publishers, New York '42

NATIONAL lime association

Open new opportunities for lime; National lime association has developed research program. Rock Prod 45:44-7 Jl '42

NATIONAL machine tool builders' association

Annual meeting, 41st, New York, Oct. 5-6. Steel 111:42-3 O 12 '42; Iron Age 150:164 O 8 '42; Am Mach 86:1192e-1192f O 15 '42; Mach 49:209-10 N '42

NATIONAL malaria society

National malaria committee; name changed; officers. Science 94:555 D 12 '41

NATIONAL malleable and steel castings company

Common stocks in strategic position. Mag of Wall St 69:503+ F 7 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1412 Ap 6 '42

Favored stocks from $10 to $25. Mag of Wall St Manual p14 Ap '42

NATIONAL mediation board

Report for year ended June 30, 1941. Ry Age 112:172+ Ja 10 '42

NATIONAL metal congress

Congress, 24th, Cleveland, Oct. 12-16. Iron Age 150:37-52 O 22 '42; Steel 111:30-3 O 19 '42

Technical program. Iron Age 150:238-42 O 1 '42; Blast F & Steel Pl 30:1027-9 S '42; Metal Finishing 40:519-23+ O '42; Metal Prog 42:498-511 O '42; Steel 111:209-10+ O 5 '42; Metals & Alloys 16:674+ O '42

NATIONAL metal exposition

Display castings at the metal show. il Foundry 69:62-3+ D '41

Guide to booths; exhibitors and products. Steel 111:222-4+ O 5 '42; Am Mach 86:1071-4 O 1 '42; Iron Age 150:234-5, 242-3 O 1 '42; Metal Prog 42:514-15 O '42; Metals & Alloys 16:694+ O '42

Service to war industries was keynote of 1942 metal show. il Ind Marketing 27:29-32+ N '42

Show in print; new equipment, accessories and materials on display at National metal show, Cleveland, Oct. 12-16. il Am Mach 86:1064-70 O 1 '42

NATIONAL metal trades association

Annual meeting, 44th, New York, May 19-20. Am Mach 86:532k My 28 '42; Mach 48:159 Je '42; Steel 110:66-7 My 25 '42

NATIONAL needlecraft bureau

Home sewing advertising is on the mend. G. Murray. il Ptr Ink 200:23-4+ S 4 '42

Sew and save, war-time theme for Needlecraft bureau and sponsors. il Ptr Ink 198:36+ Mr 6 '42

NATIONAL noise abatement council

Report of activities. G. P. Little and F. E. McGee. Acoustical Soc Am J 13:211-13 Ja '42

NATIONAL oil products company

Debentures offered. Comm & Fin Chr 155:1412 Ap 6 '42

Growth stocks and the investor. E. N. Chapman. Barron's 22:8 Ja 5 '42

High yield stocks. S. Devlin. Mag of Wall St 69:659+ Mr 21 '42

Rare Chemicals sold to National Oil Products. Oil Paint & Drug Rep 142:3+ Ag 10 '42

NATIONAL paint, varnish and lacquer association

Biographical sketches of new officers and zone vice-presidents. Paint Oil & Chem R 103:13-14 N 20 '41

Committees appointed for 1942. Oil Paint & Drug Rep 141:5+ Mr 9 '42

Convention-at-home; annual statutory meeting, 54th, Washington, D.C. Oct. 29. Oil Paint & Drug Rep 142:41-2+, 44, 46-8 N 2; 44+ N 16 '42; Paint Oil & Chem R 104:9-24, 24B-24C N 5 '42

Manufacturing and wholesale members added since Jan. 1, 1942. Paint Oil & Chem R 104:66-7 N 5 '42

Scientific section; technical developments in 1942. H. A. Gardner. Paint Oil & Chem R 104:87-9 N 5 '42

NATIONAL paper trade association

Annual meeting, 39th, New York, Feb. 16-19. Paper Tr J 114:92-4 F 19 '42

NATIONAL paperboard association

Annual meeting, New York, Nov. 12-13. Paper Tr J 113:118 N 27 '41

NATIONAL park service. See United States—National park service

NATIONAL parks and reserves

Study of the park and recreation problem of the United States. 279p U.S. Nat. park service, Washington; pa $1.25 Supt. of doc. '41

WSEL protects Blue Ridge parkway. S. R. Winters. il Radio N 26:29-30+ D '41

Roads

Blue Ridge parkway nears completion. il Roads & Sts 85:44, 47-8 Ap '42

Roads and trails in the national parks of Canada. Roads & Bridges 80:52 My '42

Canada

Improved roads increase travel to national parks. Roads & Bridges 80:81 Ja '42

Great Britain

National parks and reserves in Great Britain. Science 95:243-4 Mr 6 '42

NATIONAL parks association

Resolutions. Science 96:198 Ag 28 '42

NATIONAL petroleum association

Annual meeting, 40th, Pittsburgh, Sept. 17-18. Oil & Gas J 41:60-1 S 24 '42; Nat Pet N 34:13-18 S 23 '42

Meeting, Cleveland, April 16-17. Nat Pet N 34:15-16 Ap 22 '42

NATIONAL power and light company

Appraisal of assets. O. Ely. Barron's 21:7 D 8 '41

Common stockholders approve exchange of stock. Comm & Fin Chr 155:506 Ja 31 '42

New exchange program approved by SEC. Comm & Fin Chr 155:2369 Je 22 '42

Plans to exchange stock. Comm & Fin Chr 155:364 Ja 24 '42

To liquidate preferred stock; SEC approves plan to acquire issue in exchange for Houston Lighting common. Comm & Fin Chr 155:57-8 Ja 3 '42

To revise liquidation plan. Comm & Fin Chr 155:1923 My 18 '42

NATIONAL provincial bank

Statement circulated to the shareholders. C. F. Campbell. Economist 142:125-6 Ja 24 '42

NATIONAL publishers association

Annual meeting, 11th, Skytop, Pa. Ptr Ink 200:74 S 25 '42

NATIONAL railroad adjustment board
U.S. Circuit court of appeals refuses to review case brought by Washington terminal company to test Board's power to interpret featherbed rules. Ry Age 111:888+ N 22 '41

NATIONAL ready-mixed concrete association
Annual meeting, 12th, Cincinnati, Jan. 28-30. Concrete 50:18+ Mr '42
Directors and committee meetings, Chicago. Rock Prod 45:62-3+ Jl '42
Technical problems committees, joint meeting, Chicago, June 8. Concrete 50:20 Jl '42

NATIONAL refining company
Plans to purchase its preferred stocks. Comm & Fin Chr 156:1331 O 12 '42

NATIONAL research council
Fellowships in the medical sciences. Science 94:580 D 19 '41
National research council and co-operation in geological research. W. H. Bucher. bibliog Geol Soc Bul 53:1331-53 S '42
National research council fellowships in the natural sciences. Science 95:524-5 My 22 '42
National research council's committee on the applications of the electron microscope. Science 95:348-9 Ap 3 '42
War work. Science 96:sup10 Ag 7 '42

Division of geology and geography

Report. W. H. Bradley. Geol Soc Proc 1941: 67-9 Mr '42

NATIONAL research council of Australia
Australian national research council; review of activities, 1941. Science 95:279-80 Mr 13 '42

NATIONAL research council of Canada, Ottawa
Review of activities for the year ended March, 1941. 126p pa 75c The council, Ottawa '41
War work of the Canadian research council. Science 95:63-4 Ja 16 '42
Wartime research; activities of the Division of chemistry. F. G. Green. il Can Chem & Process Ind 25:611-13 N '41

NATIONAL retail lumber dealers association
Lumber dealers association gets price-fixing order. Oil Paint & Drug Rep 141:5 Ja 12 '42

NATIONAL roster of scientific and specialized personnel. See Scientists; Technical workers

NATIONAL safety council
Comparative balance sheets, Dec. 31, 1941 and Dec. 31, 1940. Nat Safety N 45:31 Ap '42
Council responds. J. Stilwell. Nat Safety N 45:9 Ja '42
Dearborn, director of Safety council; expanded activities planned. Weekly Underw 147:286-7 Ag 8 '42
Dearborn heads NSC staff. Nat Safety N 46:16+ Ag '42
Dearborn will direct program of National safety council. Ind Stand 13:222 S '42
Executive committee, 1941-42; portraits. Nat Safety N 44:14-15 D '41
General chairmen of National safety council sections; portraits. Nat Safety N 45:16 Ja '42
How NSC officers are elected. Nat Safety N 45:19 Je '42
Leaders interpret aims of war production fund; opening of New York's part in drive of the National safety council war production fund to conserve manpower. Nat Safety N 46:68-9+ O '42
Manpower conservation fund asks advertisers' aid. il Ptr Ink 201:52 O 23 '42
National safety congress, 30th, Chicago. Safety Eng 82:6-8+ N '41
National safety congress and exposition, 31st, Chicago. Steel 111:46+ N 2 '42
National safety congress and exposition, 31st, Chicago, Oct. 27-29; program. Nat Safety N 46:3-32 pt 2 S '42
Trends in 1941. W. H. Cameron. Nat Safety N 45:26-7+ Ap '42

NATIONAL sand and gravel association
Annual meeting, Cincinnati, Jan. 28-30. Rock Prod 45:30-1 Mr '42

NATIONAL science fund
Enlists support of scientists. News Ed 19:1471 D 25 '41
First annual report of the chairman. Science 95:581-2 Je 5 '42

NATIONAL securities and research corporation
Opinion on dismissal of stop order proceedings; name of series changed, registration statement effective. Comm & Fin Chr 156:1153 S 28 '42

NATIONAL security traders association
Member representation at NSTA election meeting. Comm & Fin Chr 156:882 S 10 '42
Officers 1942-1943; executive council; boosters. pors Comm & Fin Chr 156:800-3+ S 3 '42

NATIONAL society of professional engineers
Joint meeting with New Jersey society of professional engineers. Eng N 128:598-9 Ap 23 '42

NATIONAL standard parts association
Annual meeting, Chicago, Dec. 15-18. Automotive Ind 86:68+ Ja 1 '42

NATIONAL steel corporation
Annual report. Comm & Fin Chr 155:1412-13 Ap 6 '42
Good earnings despite higher taxes. S. Devlin. il Mag of Wall St 70:505 Ag 22 '42
Growth stocks and the investor. E. N. Chapman. Barron's 22:38 Ja 12 '42
Profit margin. H. Lawrence. Barron's 22:20 Ap 20 '42

NATIONAL sugar refining company
Another look. Mag of Wall St 70:345+ Jl 11 '42

NATIONAL supply company (Pa.)
Annual report. Comm & Fin Chr 155:1413 Ap 6 '42
Another look at your company. Mag of Wall St 70:184 My 30 '42

NATIONAL surety company
$455,970 claim against National surety co. settled. East Underw 42:39 N 7 '41; Nat Underw 45:22 N 6 '41

NATIONAL war labor board (formerly National defense mediation board)
Aims and policies of the National war labor board. W. H. Davis. Ann Am Acad 224: 141-6 N '42
Alcoa edict sticks. Business Week p44, 48 S 26 '42
Appointments. Oil Paint & Drug Rep 141:43 F 9 '42
Bache co. questions WLB's intervention. Comm & Fin Chr 156:1631 N 5 '42
Behavior counts; NWLB turns down demand of Monsanto workers for union shop. Business Week p72+ S 5 '42
Board supports CIO in attempts to extend Little Steel ruling. Steel 111:38 S 28 '42
Closed shop issue confronts new 12-member War labor board. Steel 110:23 Ja 19 '42
Decisions, January-April 1942. Monthly Labor R 54:1344-52 Je '42
Decisions, May-July 1942. Monthly Labor R 55:484-97 S '42
Differential upset; NWLB ruling in Alcoa case. Business Week p62 F 21 '42
Employers divide; NWLB lineup on maintenance of membership is changed; holds stabilizing of wages doesn't mean freezing. Business Week p68-9 Je 20 '42
Fix it yourselves; NWLB admonition to G.M. and union on Sunday pay. Business Week p74 Mr 7 '42
41 cases into one; steel company wage controversies. Business Week p50 S 26 '42
It's Kearny again; final determination of maintenance-of-membership issue is promised. Business Week p74 Ap 4 '42
Kearny pitfall; Federal Shipbuilding case. Business Week p71-2 Ap 25 '42
Labor board reorganized. Oil Paint & Drug Rep 141:3 Ja 26 '42
Labor disputes delegated to new national board. Oil Paint & Drug Rep 141:3 Ja 19 '42
Labor landmark; need for protection of worker's interest against union recognized by National war labor board in Walker Turner co. Business Week p74-5 Ap 18 '42

NATIONAL war labor board—*Continued*

Labor policy set. Business Week p15-16 D 27 '41

Labor's board. Business Week p47-9 Ja 3 '42

Leaders of CIO and AFL present suggestions regarding War labor board. Comm & Fin Chr 155:236 Ja 15 '42

Machinists win; NWLB grants A.F.L. union maintenance of membership. Business Week p78+ Je 13 '42

Morse raps Transportation assn.; member of War labor board answers criticism of its handling of T.P. & W. case. Ry Age 112:792-3 Ap 18 '42

Must by NWLB; first use of compulsory arbitration. Business Week p89-90 Mr 14 '42

NDMB into NWLB. Business Week p61+ Ja 17 '42

NWLB challenged; aluminum workers, denied pay boost, are polled on strike. Business Week p57-8 Ag 29 '42

National war labor board established. Monthly Labor R 54:427-30 F '42

NWLB on the job. Business Week p58-9 Ja 24 '42

NWLB sea victory; owners of fishing fleet change attitude. Business Week p74 Mr 7 '42

NWLB's course. Business Week p71-2 My 2 '42

New WLB members. Comm & Fin Chr 155:1871 My 14 '42

New War labor board pledges responsibility. Comm & Fin Chr 155:566 F 5 '42

No temporizing; NWLB's authority will be upheld. Business Week p75 Ag 22 '42

Pay ceiling; 15%; NWLB cost-of-living formula. Business Week p84-5 Ag 15 '42

President Roosevelt sets up War labor board; W. H. Davis will head twelve-man group. Comm & Fin Chr 155:242 Ja 15 '42

Ready on wages; NWLB prepares to put all its regional offices in shape to handle pay increase requests. Business Week p16 N 7 '42

Seizures differ; distinction between action at General cable co. plant and that at S. A. Woods machine co. Business Week p60+ Ag 29 '42

Significant labor developments. Factory Management 100:206+ Mr; 89+ My; 83+ Je; 83+ Jl; 105+ S; 109+ O; 109+ N '42

Squeeze play; Babcock & Wilcox case. Business Week p85-6 Mr 14 '42

Trouble in steel. Business Week p84-5 Mr 14 '42

Union security by referendum only; National war labor board's International harvester company decision. Business Week p7 Ap 18 '42

Union security; order of the National war labor board, Washington, D.C.; Opinions of public, labor and employer members. Personnel J 21:10-22 My '42

Unions differ; opinion of employer-members of NWLB in Caterpillar M. of M. award. Business Week p78 Jl 11 '42

U.S. Rubber case. Business Week p59 Ag 1 '42

U.S. Steel subsidiaries bow to NWLB directive under protest. Steel 111:42 S 7 '42

Wage precedent; Westinghouse takes its voluntarily negotiated 5½¢ pay increase to NWLB for review. Business Week p42-3 Ag 22 '42

War labor crisis. Business Week p14-15 Mr 7 '42

Will Davis of the War labor board. J. Chamberlain. pors Fortune 25:70-1+ Mr '42

NATIONAL warm air heating and air conditioning association

Annual meeting, 28th, Philadelphia, Jan. 26-28. Sheet Metal Worker 33:59-62 F '42

N.W.A.H.A.C.A. adopts oil-burning furnace code. il diags Sheet Metal Worker 32:50, 52 N '41

Semi-annual meeting, Chicago, June 9. Sheet Metal Worker 33:55-8 Jl '42

NATIONAL wholesale druggists association

Annual meeting, 68th, New York, Sept. 28-29. Oil Paint & Drug Rep 142:45+ O 5 '42

Fair-trade blitz; indictment. Business Week p50-1+ F 21 '42

Indictment text; with comment by H. Harper, counsel. Oil Paint & Drug Rep 141:3+ F 16 '42

N.W.D.A. defendants plead not guilty. Oil Paint & Drug Rep 141:7+ Mr 30 '42

These vacant chairs at conventions. il Ptr Ink Mo 43:17, 46+ D '41

NATIONAL wholesale hardware association

Semi-annual meeting, Chicago. Steel 111:32, 50 O 26 '42

NATIONAL wildlife federation

Committee on conservation education. Science 96:267 S 18 '42

NATIONAL women's trade union league of America

Women's trade union leagues in Great Britain and the United States of America. G. Boone. 283p bibliog(p265-72) $3.50 Columbia univ. press '42

NATIONAL youth administration

Buffalo's N.Y.A. training shop. il Sheet Metal Worker 32:29-30+ N '41

Contributing to the labor needs of the aircraft industry. Aeronautical Eng R 1:51 My '42

Development of an art program at an NYA resident project. J. M. Smoot. Am Cer Soc Bul 21:76-8 My 15 '42

How NYA trains war workers. il Sheet Metal Worker 33:30-1 Je '42

NYA prefers natural gas. Gas Age 88:18 D 4 '41

NYA radio. il Radio N 27:62-5+ Ja '42

NYA trains foundry workers. il Foundry 70:77+ Jl '42

NYA trains shipyard workers. il Marine Eng 47:104-6 F '42

NYA trains welders. J. E. Ryckman. il Am Mach 86:875 Ag 20 '42

President backs NYA and CCC continuance. Comm & Fin Chr 155:1261 Mr 26 '42

Work, wages, and education. A. W. Williams. 57p $1 Harvard univ. press '40

NATIONALISM

Evolution of nations. J. R. Swanton. 23p Smithsonian institution, Washington, D.C. '42

NATIVE labor. See Native races

NATIVE races

Native labor problem of South Africa. J. M. Tinley. 281p bibliog(p272-4) $3 Univ. of North Carolina press, Chapel Hill '42

NATURAL dyes. See Dyes and dyeing—Natural dyes

NATURAL gas. See Gas, Natural

NATURAL gas association. See American gas association—Natural gas section

NATURAL gas pipeline company

Has the Supreme court torpedoed Smyth v. Ames? decision of the U.S. Supreme court in Natural gas pipeline company v. Federal power commission. Pub Util 29:505-8 Ap 9 '42

Implications of the case of FPC v. Natural gas pipeline company; judicial review theory. W. E. Tucker. Pub Util 30:604-11 O 22 '42

Implications of the Natural gas pipeline company of America decision. G. Slaff. Pub Util 30:611-18 O 22 '42

NATURAL gasoline association of America

Annual meeting, Tulsa, May 14-15. Oil & Gas J 41:32 My 14 '42

Annual meeting, Tulsa; abstracts of papers. Nat Pet N 34:R172+ My 27 '42

NATURAL history

See also

Biology
Botany
Geology
Marine biology
Paleontology
Zoology

NATURAL history museums

Dyche museum at the University of Kansas. A. Wetmore. Science 94:593-8 D 26 '41

First natural history museum in America. G. G. Simpson. bibliog Science 96:261-3 S 18 '42

NATURAL history museums—*Continued*
Some early American museums. J. L. Baily, jr. Science 96:427 N 6 '42

See also
American museum of natural history
British museum (natural history)
Buffalo museum of science, Buffalo, New York
Carnegie institute, Pittsburgh—Museum
Cranbrook institute of science, Bloomfield Hills, Michigan
Field museum of natural history, Chicago

NATURAL lighting. See Daylight

NATURAL resources
Development of resources and stabilization of employment in the United States. 3 pts 101p; 285p; 59p U.S. Nat resources planning board, Washington; pt 1 pa 25c; pt 2 pa 80c; pt 3 pa 15c Supt. of doc. '41
Distribution of natural resources; world community predicted as result of the war; abstract. K. F. Mather. Science 95:sup8 F 13 '42
Natural resources of the Tennessee Valley region in Alabama. R. M. Harper. 93p bibliog(p10-15) Geological survey of Alabama, University, Ala. '42
Our land and our living. J. C. Caldwell, J. L. Bailey and R. W. Watkins. 301p 72c bibliog(p295) L. W. Singer co, 249 W. Erie blvd, Syracuse, N.Y. '41
Resources for victory. J. E. Orchard. 36p pa 25c Columbia univ. press '42
World resources and peace; lectures. 151p $1.50; pa $1 Univ. of California press, Berkeley '41

See also
Agriculture
Chemicals
Coal
Conservation of resources
Forests and forestry
Fuel
Gas, Natural
Mines and mineral resources
Oil lands
Oil shales
Ore deposits
Peat
Petroleum
Raw materials
Soil conservation
Water supply

NATURALISTS, Western society of. See Western society of naturalists

NATURALIZATION
How to become a citizen of the United States. M. Schibsby and R. Lewis. rev ed 95p pa 25c Common council for American unity, 222 4th av, New York '41

NATURE photography
Natural history with a camera. L. W. Brownell. 292p $3.75 Am. photographic pub. co, 353 Newbury st, Boston '42
Photograph the fungi and learn to know them. L. W. Brownell. il Am Phot 36:38-41 N '42

NAUTICAL astronomy
New system of celestial navigation. A. D'Auria. diags Aeronautical Eng R 1:11, 13+ O '42
Stars this January; navigational stars used in determining position. W. C. Youngclaus. map Aero Digest 40:69+ Ja '42 [cont monthly]

NAUTICAL instruments
Compass and other aids to navigation. F. C. Stewart. Engineer 172:298-300 O 31 '41
New instrument for celestial navigation. N. W. Storer. diag J Aeronautical Sci 9: 138-40 F '42

See also
Compass
Direction finding apparatus
Radio aids to navigation
Sextant
Sounding

NAUTICAL training schools
Florida training station for Maritime commission. il plans Arch Forum 75:418-20 D '41

NAUTILICONES
Ozarkian and Canadian cephalopods; nautilicones. E. O. Ulrich and others. diags Geol Soc Special Pa no 37:1-157, pl 1-57 bibliog(p87-96) '42

NAVAHO Indians
Navahos in the machine age. C. Kluckhohn. il Tech R 44:178-80+ F '42

NAVAJO rugs. See Rugs

NAVAL air stations
Air base. B. T. Guyton. 295p $2.50 McGraw-Hill '41
Centralized sound in a naval station. S. Harman. il diags Radio N 28:20-2+ Ag '42
Labor legislation in British possessions with American bases. Monthly Labor R 54:907-16 Ap '42
Record time construction at Quonset naval air station. R. V. Miller. Boston Soc C E J 29:38-49 Ja '42; Same abr. Engineer 174: 29-30 Jl 10 '42

NAVAL architects and marine engineers, Society of. See Society of naval architects and marine engineers

NAVAL architecture
Behaviour of ships. J. H. Narbeth. Engineering 153:15-16, 24-5 Ja 2-9 '42
Distinctive ships, 1941. il diags plans Marine Eng 46:103-50+ N '41
Growing importance of small models for studies in naval architecture; abstract. K. S. M. Davidson. Marine Eng 46:89-90; Discussion. 90-1 D '41
Introduction to naval architecture. J. P. Comstock. 209p $4 Simmons-Boardman '42
Liberty ship. il diags plans Marine Eng 47: 146-65 Ap '42
Precision in naval architectural calculations; abstract and discussion. E. V. Lewis. Marine Eng 46:91-2 D '41
Research work in ship construction. M. Palmieri. diags Marine Eng 47:129-30 Mr '42
Ship and aircraft fairing and development, for draftsmen and loftsmen and sheet metal workers. S. S. Rabl. 90p $2.50 Cornell maritime press, New York '41
Tale of the Sea Otter. il Fortune 25:178, 180 My '42
Testing our battlecraft before building them; David W. Taylor model basin. R. G. Skerrett. il diags Comp Air M 47:6651-7 F '42

See also
Barges
Dredges
Ferryboats
Freight ships
Marine engineering
Motor ships
Propellers
Ship propulsion
Shipbuilding
Ships
Steamboats
Submarine boats
Tank ships
Torpedo boats
Towboats
Warships
Yachts and yachting

Designs and plans

African Comet, passenger liner. il diags plans Marine Eng 47:112-24+ Ja '42
Hains and Hoffman, seagoing dredges. il diag plans Marine Eng 47:116-24 Ag '42
Sinclair H-C, new Sinclair refining company tanker. Marine Eng 47:108-9, 112 Mr '42
Tug design. A. R. Taylor. diags Engineering 153:459-60 Je 5 '42

Study and teaching

Webb institute of naval architecture. L. J. Ballard. il J Eng Educ 32:719-21 My '42

Tables, calculations, etc.

Handbook of ship calculations, construction and operation. C. H. Hughes. 3d ed 558p $5 McGraw-Hill '42

NAVAL art and science
Layman's guide to naval strategy. B. Brodie. 291p bibliog(p279-84) $2.50 Princeton univ. press '42
Maid-of-all work; place of the versatile destroyer in modern navies. W. L. Robinson. il Sci Am 166:55-8 F '42
Modern naval strategy. R. H. S. Bacon and F. E. McMurtrie. 208p $3.50 Chemical pub. co. '41
Naval warfare; an introductory study. J. Creswell. 2d ed rev 302p 12s 6d S. Low, Marston & co, London '42

NAVAL art and science—*Continued*

Tactics and the aircraft carrier. H. W. Richmond. Engineering 154:143-4 Ag 21 '42

See also

Armor plate
Hospitals, Naval and marine
Marine engineering
Military art and science
Naval air stations
Naval bases and other headings beginning Naval
Navies
Navigation
Navy yards and naval stations
Sea power
Seamen
Shipbuilding
Submarine boats
Submarine warfare
Torpedo boats
Warships
World war, 1939- —Naval operations

Dictionaries

Glossary of sea terms. G. Bradford. new & rev ed 217p $3.50 Dodd '42

NAVAL bases

Labor legislation in British possessions with American bases. Monthly Labor R 54:907-16 Ap '42

U.S. and Martinique conclude agreement. Comm & Fin Chr 155:8 Ja 1 '42

See also

Naval air stations
Navy yards and naval stations

NAVAL education

Navy announces training program in collaboration with colleges. Elec Eng 61:218-19 Ap '42

Selection, training, and morale of navy personnel. C. N. Smith. Ann Am Acad 220:57-66 Mr '42

See also

Moving pictures in naval education
Nautical training schools

NAVAL engineering. See Marine engineering

NAVAL engineers. See Marine engineers

NAVAL guns

From printing presses to gun mounts; Goss printing press co. C. O. Herb. il Mach 48:121-30 Mr '42

Manufacture

Contour sawing of naval gun mounts. H. J. Chamberland. il Iron Age 150:46-9 Jl 9 '42

NAVAL medical center. See Bethesda, Maryland—Naval medical center

NAVAL stations. See Navy yards and naval stations

NAVAL stores

Development of naval stores and pulpwood supplies from the pinus mercusi of northern Sumatra. D. G. Moon. il Paper Tr J 114:34-7 Ap 16 '42; Same cond. Paper Ind 24:89-90 Ap '42

Naval stores and terpene chemicals; flow sheet of Newport industries, Pensacola plant. il Chem & Met Eng 49:112-15 Mr '42

Naval stores loan program formulated. Oil Paint & Drug Rep 140:5+ D 15 '41

News by commodities. Published in Foreign commerce weekly

Photoelectric photometer for rapid grading of naval stores products. R. H. Osborn. il diag Ind & Eng Chem Anal ed 14:572-5 Jl 15 '42

See also

Pitch
Rosin
Tar
Turpentine

Statistics

Consumption of turpentine and rosin increased in last naval stores year. Chem & Met Eng 49:122+ Je '42

Naval stores. Published in weekly numbers of Oil, paint and drug reporter

NAVAL training station, Great Lakes, Illinois

Laminated lumber speeds huge expansion at Great Lakes naval training station. J. S. Samelson. il Am Bld 64:52-3+ My '42

Naval training station. il plans Arch Forum 77:35-45 Ag '42

NAVAL warfare. See Naval art and science

NAVIES

See also

Submarine boats
Warships

also subdivision Navy under names of countries, e.g.

Great Britain—Navy
United States—Navy

NAVIGABLE waters (term)

Navigable waters as a legal fiction. H. Kelso. bibliog J Land & Pub Util Econ 17:394-405 N '41

NAVIGATION

Advanced modern navigation. J. Greenleaf. 243p $5 Longmans '41

Manual of celestial navigation. A. A. Ageton. 103p $1.85 Van Nostrand '42

Mathematics of air and marine navigation. A. D. Bradley. 103p $1 Am. book co. '42

Merchant marine officers' handbook. E. A. Turpin and W. A. MacEwen. 740p $5 Cornell maritime press, New York '42

Modern seamanship. A. M. Knight. 10th ed rev 845p $8 Van Nostrand '41

Navigation for mariners and aviators. D. Polowe. 516p $5 Cornell maritime press, New York '42

Navigation tables for mariners and aviators. J. Y. Dreisonstok. 6th ed 109p U.S. Hydrographic office, Washington; $1.20 Supt. of doc. '42

Practical essentials of pre-training navigation; celestial navigation, meteorology, map projection. W. T. Skilling and R. S. Richardson. 113p pa 75c Holt '42

Tellier's Navigator's compendium. A. J. Tellier. 5th ed 1056p $15; lea $25 Albert J. Tellier, 153 S. Monterey st, Mobile, Ala. '41

See also

Direction finding apparatus
Maritime law
Motor boats
Motor ships
Nautical astronomy
Nautical instruments
Radio aids to navigation
Radio apparatus on ships
Radio beacons
River traffic
Rivers
Shipbuilding
Shipping
Ships
Sounding
Steamboats
Waterways
Yachts and yachting

Study and teaching

Teaching of air and marine navigation; importance of unified and simultaneous instruction and importance of training in operational routine; abstract. J. Q. Stewart; N. L. Pierce. Science 95:sup 12-13 Je 19 '42

NAVIGATION, Aerial. See Aviation

NAVY E pennant. See Incentives in industry

NAVY fabrics

Fabrics for military purposes; cotton drills sought by army and navy; cotton canvas padding, and 48-oz. duck. il Textile World 92:63 Ag '42

Fabrics for military purposes; rayon, nylon and other synthetics. il Textile World 92:102-3 S '42

Fabrics for military purposes; two navy woolens. Textile World 92:74 Mr '42

Knit goods for military purposes. Textile World 92:88-9 Ap '42

Textile war manual; how to obtain government contracts. Textile World 92:68-71 F '42

NAVY yards and naval stations

Concrete structures expand navy yard at Charleston. il Concrete 49:34 D '41

Functions of the Civil engineer corps in the naval establishment. L. B. Combs. il Civil Eng 12:320-3 Je '42

Housing built on the double-quick; navy housing project. G. Michelson. il plan Eng N 128:478-80 Mr 26 '42

Multi-story building designed in timber; manufacturing and shop building for the Navy. il diags Eng N 129:580-2 O 22 '42

Navy makes variety of nonferrous castings. P. Dwyer. il Foundry 70:66-7+ Jl '42

NAVY yards and naval stations—*Continued*

Navy warehouse foundation on bottom-bearing piles with concrete tips. J. H. Thornley. il Civil Eng 12:372-3 Jl '42

Navy yard foundry develops casting technique. P. Dwyer. il Foundry 70:50-3+ Je '42

Work of the Civil engineer corps of the Navy. J. J. Manning. il Civil Eng 12:73-6 F '42

See also
Ship model tanks
also Naval training station, Great Lakes, Illinois

Accidents

Navy slashes accidents in shore establishments. Nat Safety N 46:97-8 S '42

Employees

Head injuries; an analysis with reference to accident prevention. H. Lieber. Ind Med 11:9-10 Ja '42

Role of the nurse in naval defense industry. E. W. Brown. Ind Med 11:94-7 F '42

Equipment

Pit planers for the navy; for machining armor plate. il Iron Age 149:58-9 F 12 '42

Tool conservation in the navy. F. J. Oliver. il Iron Age 150:56-8 Ag 27 '42

NAZI movement. See Germany—Nazi movement

NEAR EAST

Middle East. il maps Fortune 25:62-71, 170, 172+ F '42

Middle East. map Fortune 26:90-1 N '42

Middle East; a record of travel in the countries of Egypt, Palestine, Iraq, Turkey and Greece. H. V. Morton. 374p $3 Dodd '41

Middle East; its power politics; intrigue and the strong man are the keys. R. Strausz-Hupé and R. S. Nathan. il map Fortune 26:92-5+ N '42

Our stake in the Middle East. il Business Week p32 Jl 11 '42

See also
Balkan states
Iraq
Palestine
Persia
Petroleum—Near East
Turkey
World war, 1939—Near East

NEBLETT, Thomas Fair, 1911-

Problematician Neblett tackles a problem. por Business Week p42 My 16 '42

NEBRASKA

Bibliography

Check list of Nebraska non-documentary imprints, 1847-1876. preliminary ed 132p Nebraska state historical soc, State capitol, Lincoln '42

NEBULAE

Large scale distribution of matter in the universe. F. Zwicky. bibliog il Phys R 61:489-503 Ap 1 '42

Nebular spectrum; evidence for the uniformity of composition of matter in space. H. N. Russell. il Sci Am 167:114-15 S '42

New studies on the clusters of nebulae. J Ap Phys 13:424 Jl '42

Rotating galaxies; that spiral nebulae rotate is now beyond doubt. H. N. Russell. il Sci Am 166:274-5 Je '42

Star of 1054. H. N. Russell. il Sci Am 167:64-5 Ag '42

NECKTIES

Botany boosts ties by television. il Textile World 91:88 N '41

NEEDLECRAFT bureau, National. See National needlecraft bureau

NEENAH expansimeter

Multiple-specimen Neenah expansimeter. J. A. Van Den Akker, C. Root and W. A. Wink. il diags Paper Tr J 115:33-6 D 10 '42; Excerpts. Paper Ind 24:306-7 Je '42

NEGLIGENCE

Admiralty court holds bailee can make contract waiving negligence. East Underw 42:27 D 5 '41

Comparative negligence. K. Grubb. East Underw 43:32+ S 4 '42

Hero Smith on Father's day; liability and defense of department stores in negligence cases. H. S. Moser. Nat Underw 46:17+ Ag 27 '42

Law on liability for property damage caused by fire. F. W. Davies. East Underw 43:22 S 4 '42

Legal aspect of obstruction; recent judicial decision. F. E. Sugden. Mech Handling 29:98-9 My '42

Liability of individuals and municipalities regarding blackout accidents; English experience. E. C. Stiefel. Weekly Underw 146:1151+ My 23 '42

Parental liability in negligence cases; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:34-5 Ap 16 '42

Trial manual for negligence actions. S. C. Schweitzer. 2d ed 1342p $15 Baker, Voorhis & co, New York '41

See also
Damages
Employers' liability
Municipal liability
Personal injuries

NEGOTIABLE instruments

Antecedent debt as value. C. R. Rosenberg, jr. Burroughs Clearing House 26:42-3 My '42

Cases and materials on the law of bills and notes. H. L. Smith and W. U. Moore. 4th ed 1070p $6 West '41

Defect in title of prior negotiator. C. R. Rosenberg, jr. Burroughs Clearing House 26:30+ Ap '42

Equitable defense. C. R. Rosenberg, jr. Burroughs Clearing House 27:43-4 O '42

Extension of time; parties to a note may be discharged of liability if presentment is not made at maturity. C. R. Rosenberg, jr. Burroughs Clearing House 26:27-8 N '41

Manual for instructors in negotiable instruments, including answers to questions in Student's manual. 82p bibliog(p3-5) 50c Am. inst. of banking, New York '41

Negotiable instruments. J. M. Landis. rev ed 400p $3 Am. inst. of banking, New York '41

Surety or endorser? C. R. Rosenberg, jr. Burroughs Clearing House 26:27 Je '42

Unauthorized loan; danger in bank's taking a joint note signed by several makers upon delivery by one of them. Burroughs Clearing House 26:37-8 Je '42

See also
Bonds
Checks
Drafts
Postal service—Money orders
Promissory notes
Warehouse receipts

NEGRO scientists

Ernest Everett Just. F. R. Lillie. Science 95:10-11 Ja 2 '42

NEGROES

American Negroes; a handbook. E. R. Embree. 79p bibliog(p70-4) $1 Day '42

Color, class, and personality. R. L. Sutherland. 135p $1.25; pa 75c Am. council on education, 744 Jackson pl, Washington, D.C. '42

Negro handbook. F. Murray, ed. 269p bibliog (p194-200) $3.50 Wendell Malliet & co, 209 W. 125th st, New York '42

Negro minority. C. S. Johnson. Ann Am Acad 223:10-16 S '42

Negro's war; one-tenth of the U.S. population still has not a full share in America's greatest undertaking. il Fortune 25:76-80, 157-8+ Je '42

Seek to improve insurance service for N.Y. Negroes. Nat Underw (Life ed) 46:9 O 9 '42

Segregation of bloods; committee of American association of physical anthropologists opposed to segregation of bloods from white and Negro donors. Science 96:8 Jl 3 '42

Should the Negro care who wins the war? H. M. Bond. Ann Am Acad 223:81-4 S '42

Understanding our neighbors; an educational approach to America's major race problem. R. B. Eleazer. 4th ed rev 32p bibliog(cover) pa 10c Conference on education and race relations, 710 Standard bldg, Atlanta '41

NEGROES—*Continued*

What the Negro thinks. R. R. Moton. 267p $1 Garden city pub. co, Garden City, N.Y. '42

What the Negro thinks of the army. W. White. Ann Am Acad 223:67-71 S '42

See also
United States—Army—Negro troops

Economic conditions

Economic detour; a history of insurance in the lives of American Negroes. M. S. Stuart. 339p bibliog(p337-8) $3 W. Malliet and co, 209 W. 125th st, New York '40

Texas Negro family: the status of its socio-economic organization. H. A. Bullock. 56p Prairie View state normal and industrial college, Prairie View college branch, Hempstead, Tex. '41

Employment

Barriers to Negro war employment. L. B. Granger. Ann Am Acad 223:72-80 S '42

Bi-racial cooperation in placement of Negroes. Monthly Labor R 55:231-4 Ag '42

Defense industries and the Negro. R. C. Weaver. Ann Am Acad 223:60-6 S '42

Equality campaign, political pressure exerted in Cleveland. il Business Week p70-2 My 9 '42

More Negroes placed in industrial work. R. C. Weaver. Comm & Fin Chr 156:729 Ag 27 '42

Negro federal government worker; a study of his classification status in the District of Columbia, 1883-1938. L. J. W. Hayes. 156p pa $1 Graduate school, Howard univ, Washington, D.C. '41

Negro's war; one-tenth of the U.S. population still has not a full share in America's greatest undertaking. il Fortune 25:76-80, 157-8+ Je '42; Abstract. Management R 31: 186-8 Je '42

Progress in eliminating race discrimination cited in letter from President Roosevelt. Comm & Fin Chr 155:1556 Ap 16 '42

Where Negroes are filling jobs in war production plants. il Factory Management 100: 86-7 Je '42

Health and hygiene

Biology of the Negro. J. H. Lewis. 433p $5 Univ. of Chicago press '42

Segregation

See also
Railroads—Negro passengers

NEGROES in Brazil

Negroes in Brazil; a study of race contact at Bahia. D. Pierson. 392p bibliog(p371-9) $4.50 Univ. of Chicago press '42

NEGROES in the West Indies

Negro in the Caribbean. E. Williams. 119p bibliog(p110-17) 50c Associates in Negro folk education, box 636, Ben Franklin station, Washington, D.C. '42

NEHRU, Jawaharlal, 1889-

Portrait. Fortune 25:67a Ap '42; Business Week p38 Ap 4 '42

NEIGHBORHOOD planning

Cost of public services in residential areas. F. D. McHugh. diags plans map Am Soc C E Proc 67:991-1022 Je '41; Discussion. 67: 1549-52, 1761-2; 68:287-8 O-N '41, F '42

Organization of occupancy as an approach to real estate management. M. J. Feldstein and L. C. Bryant. J Land & Pub Util Econ 17:460-4 N '41

St Mark's neighborhood. 43p pa 50c Community service soc, Committee on housing, New York '41

War housing: site planning. G. Eckbo. il plans Arch Forum 76:263-7 My '42

NEIGHBORHOOD stores

Will the war bring back the hick store? R. B. Simpson. il Adv & Sell 35:46+ Je '42

NELSON, Donald Marr, 1888-

Don Nelson's men; how they serve and where they stand; report to executives. pors Business Week p45-62 Jl 4 '42

Nelson appointment marks new turn; simpler, clearer defense set-up likely. E. Blair. por Barron's 22:4 Ja 19 '42

Nelson in charge. por Business Week p14 Ja 17 '42

Nelson planning to assert his leadership of the war effort. E. Blair. Barron's 22:4 Ag 24 '42

Nelson speaks out. por Business Week p14-15 Ag 29 '42

New war production boss. Elec W 117:300 Ja 24 '42

Washington goes to war; Donald Nelson chairman of War production board. por Trusts & Estates 74:6-7 Ja '42

NELSON, Wilbur Armistead, 1889-

Sketch. por Explosives Eng 20:188-9 Jl '42

NEODYMIUM

Effect of polarized light on the absorption spectrum of the neodymium ion in crystals. E. L. Kinsey and R. W. Krueger. il Phys R 62:82 Jl 1 '42

First spark spectrum of neodymium; preliminary classification and Zeeman effect data. W. E. Albertson, G. R. Harrison and J. R. McNally, jr. bibliog Phys R 61:167-74 F 1 '42

Rare-earth metal amalgams; the separation of neodymium, samarium, and gadolinium. J. K. Marsh. Chem Soc J p523-6 Ag '42

NEON

Ionization of argon and neon by electron impact. D. P. Stevenson and J. A. Hipple. bibliog Phys R 62:237-40 S 1 '42

Stellar advertising signs; neon, rare on earth, 1000 times more abundant in the stars. H. N. Russell. il Sci Am 166:68-9 F '42

See also
Electric lamps, Neon

NEON sign policy. See Insurance, Inland marine—Policies

NEOPENTYL bromide. See Bromodimethylpropane

NEOPRENE

Effect of petroleum products on neoprene vulcanizates; effect of kerosenes. D. F. Fraser. bibliog Ind & Eng Chem 34:1298-1300 N '42

Effects of low temperatures on neoprene vulcanizates; tests of rubber, neoprene GN and neoprene FR. F. L. Yerzley and D. F. Fraser. bibliog il diag Ind & Eng Chem 34:332-6 Mr '42

Flexible bearings, bushings and gears of rubber or neoprene. W. L. Nelson. diags Oil & Gas J 40:160 D 25 '41

Industrial progress in synthetic rubberlike polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

Neoprene cements and solvent compounds. R. D. Earle. il India Rubber W 106:570-1 S '42

Neoprene polymer has wide range of plasticities. India Rubber W 106:586 S '42

Neoprene rubber; properties, etc. Product Eng 13:287-9 My '42

Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42

Synthetics; recent developments. C. P. Kidder. il Automobile Eng 31:456-7 D '41

Trilinear compounding; use of charts. D. B. Forman. Rubber Age 50:191-4 D '41

NEPETALACTONE

Constituents of the volatile oil of catnip; the neutral components; nepetalic anhydride. S. M. McElvain, P. M. Walters and R. D. Bright. Am Chem Soc J 64:1828-31 Ag '42

NEPETALIC anhydride

Constituents of the volatile oil of catnip; the neutral components; nepetalic anhydride. S. M. McElvain, P. M. Walters and R. D. Bright. Am Chem Soc J 64:1828-31 Ag '42

NEPHELITE syenite

Low-temperature vitreous bodies. C. J. Koenig. bibliog il Am Cer Soc J 25:230-6 My 1 '42

Nepheline syenite in hotel chinaware bodies. C. J. Koenig. bibliog diags Am Cer Soc J 25:90-3 F 1 '42

NEPHELOMETRY

Nephelometric method for determination of solubilities of extremely low order. W. W. Davis and T. V. Parke, jr. Am Chem Soc J 64:101-7 Ja '42

Solubility of carcinogenic and related hydrocarbons in water. W. W. Davis, M. E. Krahl and G. H. A. Clowes. bibliog Am Chem Soc J 64:108-10 Ja '42

NEROLI oil. See Orange flower oil

NERVES

Autologous plasma clot suture of nerves. I. M. Tarlov and B. Benjamin. Science 95: 258 Mr 6 '42

Excessive acidity of the nerves may be responsible for a host of serious ailments; abstract. R. Gesell. Science 95:sup 11 Ap 10 '42

Localization of enzymes in nerve fibers. D. Nachmansohn and H. B. Steinbach. bibliog Science 95:76-7 Ja 16 '42

Nerve and tendon injuries of the hand. M. L. Mason. bibliog il Ind Med 11:61-6 F '42

Nerve-modulus for anesthetics. A. R. McIntyre, A. L. Bennett and J. C. Wagner. Science 95:24 Ja 2 '42

NERVOUS system

Anatomy of the nervous system; a textbook from the developmental and functional point of view, and atlas of the nervous system of man. O. Larsell. 443p bibliog (p409-16) $6.50 Appleton-Century '42

Functional neuroanatomy. W. J. S. Krieg. 553p bibliog(p539-42) $6.50 Blakiston '42

Neuroanatomy. F. A. Mettler. 476p bibliog (p385-438) $7.50 C. V. Mosby co, St Louis '42

Neuro-anatomy. W. R. Spofford. 110p bibliog(p101-2) $2 Oxford '42

Text-book of neuro-anatomy. A. Kuntz. 3d ed rev 518p bibliog(p499) $6 Lea & Febiger, Philadelphia '42

Diseases

Diseases of the nervous system described for practitioners and students. F. M. R. Walshe. 288p $4.50 Williams & Wilkins '40

Principles of neurological surgery. L. E. Davis. 2d ed rev 503p $7 Lea & Febiger, Philadelphia '42

Roentgen treatment of diseases of the nervous system. C. G. Dyke and L. M. Davidoff. 198p bibliog(p189-94) $3.25 Lea & Febiger, 600 S. Washington sq, Philadelphia '42

Textbook of clinical neurology. J. M. Nielsen. 672p bibliog(p645-6) $6.50 Harper '41

See also

Mental diseases

NESSLER'S reagent

Determination of combined nitrogen in steel; a rapid method. H. F. Beeghly. bibliog il diag Ind & Eng Chem Anal ed 14:137-40 F 15 '42

NESTS

See also

Photography of bird nests

NET fabrics

Some modern war-time finishes; window replacement fabrics. C. E. Salkeld. Soc Dyers & Col J 58:28-31 F '42; Same. Textile Col 64:245-9 My '42

NETHERLANDS

See also

World war, 1939—Netherlands

Colonies

Netherlands overseas territories. 92p pa 75c Oxford '41

Commerce

Anglo-Dutch commerce and finance in the eighteenth century. C. Wilson. 235p $5 Macmillan (Toronto) '41

German occupation

Repression and resistance in Holland. Economist 141:505 O 25 '41

NETHERLANDS GUIANA. See Dutch Guiana

NETHERLANDS INDIES

Application of the effective temperature scheme to the comfort zone in Netherlands India. J. A. Wiesebron and others. bibliog diags Heating-Piping 14:632-40 O '42

Dutch East Indies: its government, problems, and politics. A. Vandenbosch. 458p bibliog(p439-44) $4 Univ. of California press, Berkeley '42

Dutch in the Far East; a history of the Dutch commercial and colonial empire. A. Hyma. 249p bibliog(p215-44) $1.75 George Wahr, Ann Arbor, Mich. '42

Isles of spice; an extensive journey through the Dutch East Indies, Indo-China and North Australia. F. Clune. 329p bibliog (p327-9) $3.50 Dutton '42

Netherlands Indies and the United States. R. Emerson. 92p bibliog(p91-2) 50c; pa 25c World peace foundation '42

Our allies: the Netherlands East Indies. J. A. de Haas. 32p pa 10c Oxford '42

Structure of Netherlands Indian economy. J. H. Boeke. 201p $2.50 Inst. of Pacific relations, New York '42

See also

Engineering—Netherlands Indies

Petroleum—Netherlands Indies

Tobacco industry and trade—Netherlands Indies

World War, 1939—Netherlands Indies

Bibliography

Netherlands East Indies: a selected list of references. H. F. Conover, comp. 46p U.S. Lib. of Congress, Division of bibliography, Washington '42

Commerce

Sharp changes mark Netherlands Indies economic policies in 1940. For Comm W 5:6-7+ N 29 '41

Economic conditions

Economic development of the Netherlands Indies. J. O. M. Broek. 172p $2 Inst. of Pacific relations, New York '42

News by countries (cont). For Comm W 5: 16-17 N 22 '41

Economic policy

Sharp changes mark Netherlands Indies economic policies in 1940. For Comm W 5:6-7+ N 29 '41

NETWORK affiliates, inc.

Network affiliates is new radio trade association. Ptr Ink 197:70-1 N 28 '41

NETWORK analyzer. See Electric distribution —Tables, calculations, etc.

NEUMILLER, Louis, 1896-

Working methods of Caterpillar's new president. E. Whitmore. por Am Business 11: 9-11, 42-3 N '41

NEUTRALITY

Congress approves and President signs administration's Neutrality revision bill. Comm & Fin Chr 154:1340 D 4 '41

Far Eastern neutrality. Economist 142:716-17 My 23 '42

Loan provisions of the Neutrality act. Comm & Fin Chr 155:746+ F 19 '42

Neutral austerity: Ireland. Economist 142:828 Je 13 '42

President Roosevelt and Secretary Hull express views on neutrality legislation. Comm & Fin Chr 154:1226 N 27 '41

NEUTRALITY—*Continued*

Suspend financial section of Neutrality act of 1939. Comm & Fin Chr 155:967 Mr 5 '42

Bibliography

List of recent references on neutrality, with a section on maritime neutrality and the freedom of the seas. H. F. Conover, comp. 26p U.S. Lib. of Congress, Division of bibliography, Washington '41

National defense and neutrality; proclamations, executive orders, military orders and presidential administrative orders and regulations, July 1, 1939-July 1, 1941. 41 l U.S. Office of government reports, Washington '41

NEUTRALIZATION

Proposed method of test for neutralization number of new and used crankcase oils. Am Soc T M Proc 41:348-50 '41

Proposed method of test for neutralization number of petroleum products by electrometric titration. diag Am Soc T M Proc 41:342-7 '41

Suggested method for neutralizing waste pickling acid effluents. F. Smith. Chem & Ind 61:68-9 F 7 '42

NEUTRALIZATION, Heat of

Heats of organic reactions; heats of hydrolysis of some acid anhydrides. J. B. Conn and others. bibliog Am Chem Soc J 64:1747-52 Ag '42

NEUTRINOS

Experimental evidence for the existence of a neutrino. J. S. Allen. bibliog diag Phys R 61:692-7 Je 1 '42

Suggestion on the detection of the neutrino. Kan Chang Wang. Phys R 61:97 Ja 1 '42

NEUTRONS

Angular distribution of protons scattered by high energy neutrons. H. Tatel. diags Phys R 61:450-4 Ap 1 '42

Apparatus for the direct determination of slow neutron velocity distributions. L. J. Haworth, J. H. Manley and E. A. Luebke. il diags R Sci Instr 12:591-7 D '41

Developments in ion accelerating tubes. J. H. Manley, L. J. Haworth and E. A. Luebke. bibliog diags R Sci Instr 12:587-90 D '41

Mean life of neutrons in water and the hydrogen capture cross section. J. H. Manley, L. J. Haworth and E. A. Luebke. bibliog Phys R 61:152-5 F 1 '42

Neutron logs find porous zones in western Kansas limestones. W. L. Russell and R. B. Downing. Oil & Gas J 41:66 Ag 6 '42

Neutron pictures. Science 96:sup8+ Jl 24 '42

New high intensity neutron source. M. Morand. R Sci Instr 13:301 Jl '42

On the resonance levels for neutron capture of iodine and indium. F. A. Valente. 31p pa 75c New York univ, New York '42

Production of neutrons and protons by the cosmic radiation at 14,125 feet. S. A. Korff and E. T. Clarke. bibliog Phys R 61:422-7 Ap 1 '42

Pseudoscalar meson field with strong coupling. W. Pauli and S. M. Dancoff. bibliog Phys R 62:85-108 Ag 1 '42

Reactions of bromine with carbon tetrachloride and tetrachloroethylene following neutron capture and isomeric nuclear transition. E. G. Bohlman and J. E. Willard. bibliog Am Chem Soc J 64:1342-6 Je '42

Resonance absorption of neutrons in rhodium, antimony, and gold. H. Feeny, C. Lapointe and F. Rasetti. bibliog Phys R 61:469-75 Ap 1 '42

Resonance level of Hg at negative energy. M. Kimura. Phys R 60:688-9 N 1 '41

Slowing down of low energy neutrons in water. M. Goldhaber and R. D. O'Neal. Phys R 60:834 D 1 '41

Yield of neutrons from deuterons on carbon. C. L. Bailey, M. Phillips and J. H. Williams. Phys R 62:80 Jl 1 '42

Scattering

Elastic and inelastic scattering of fast neutrons. H. H. Barschall and R. Ladenburg. bibliog diag Phys R 61:129-37 F 1 '42

Inelastic scattering of neutrons by crystal lattices. R. J. Seeger and E. Teller. Phys R 62:37-40 Jl 1 '42

Interaction of slow neutrons with nuclei. H. Carroll. bibliog diags Phys R 60:702-9 N 15 '41

Magnetic scattering of neutrons. M. Hamermesh. Phys R 61:17-18 Ja 1 '42

Neutron beam monitor. E. M. Fryer and H. Staub. diag R Sci Instr 13:187-8 Ap '42

Scattering of fast neutrons by lead. H. F. Dunlap and R. N. Little. bibliog diag Phys R 60:693-701 N 15 '41

NEVADA

Desert challenge; an interpretation of Nevada. R. G. Lillard. 388p bibliog(p388) $4 Knopf '42

See also

Geology—Nevada
Gold mines and mining—Nevada
Manganese mines and mining—Nevada
Mercury mines and mining—Nevada
Mines and mineral resources—Nevada

NEVADA copper belt railway

Purchase and operation. Comm & Fin Chr 155:1016 Mr 9 '42

NEW BRUNSWICK

See also

Mines and mineral resources—New Brunswick

NEW customers. See Customers, New

NEW employees. See Employment management—New employees

NEW ENGLAND

New England people; builders of America. L. T. McKenney. 191p $2 Meador pub. co, Boston '42

New England serves again. W. M. Rand. Am Inst Chem Eng Trans 38:725-33 Ag '42

See also

Fish trade—New England
Housing—New England
Water supply—New England

NEW ENGLAND council

Annual conference, 17th, Boston. Steel 109:25 N 17 '41

NEW ENGLAND gas and electric association

Answers SEC; denies allegations in report of Commission's public utility division. Comm & Fin Chr 154:1101-2 N 18 '41

SEC's utility division intends to recommend revision of capitalization or liquidation. Comm & Fin Chr 155:307 Ja 20 '42

NEW ENGLAND gas association

Annual business conference, 16th, Boston, March 19-20. Gas Age 89:16-18 Ap 9 '42; Am Gas Assn Mo 24:145 Ap '42

NEW ENGLAND intercollegiate geological excursion

New England field geologists; 37th annual field meeting, Northampton, Mass. Oct. 10-12. L. W. Fisher. Science 95:21-2 Ja 2 '42

NEW ENGLAND mutual life insurance company

Annual report to directors. G. W. Smith. East Underw 43:3 F 20 '42

New England Mutual moves into new home office building. il East Underw 42:3+ D 5 '41

Office building; views, plans, and construction outline. Arch Forum 76:383-90 Je '42

NEW ENGLAND power service company

Recent developments in service company regulations; decision of Securities and exchange commission in New England power service company case. W. F. Kennedy. J Land & Pub Util Econ 18:100-2 F '42

NEW ENGLAND public service company

Files integration plan; industrial status sought. Comm & Fin Chr 154:1495 D 13 '41

NEW ENGLAND telephone and telegraph company

Report; revenues, 1938-1941. Comm & Fin Chr 155:1314 Mr 30 '42

Stockholders given right to subscribe for shares. Comm & Fin Chr 154:1598 D 20 '41

NEW ENGLAND water works association

Annual meeting, 60th, Boston, Sept. 23-26. N E Water Works Assn J 55:561-625 D '41

Annual meeting, 61st, Boston, Sept. 15-16. Water Works & Sewerage 89:426-30 O '42; Eng N 129:404-5 S 24 '42

Winter meeting, Boston, Feb. 19. Water Works & Sewerage 89:131-2 Mr '42

NEW GUINEA

Recollections of New Guinea. J. C. Cosgrove. il map Explosives Eng 20:292-7 O '42

NEW HAMPSHIRE

See also
Geology—New Hampshire

NEW HAMPSHIRE academy of science

Annual meeting, 23d, Durham, Nov. 14-15. Science 95:21 Ja 2 '42

NEW HAVEN & Hartford railroad. See New York, New Haven & Hartford railroad

NEW JERSEY

See also
Motor bus lines—New Jersey

NEW JERSEY zinc company

Another look. Mag of Wall St 71:148 N 14 '42

NEW LONDON, Ohio

Sewerage

New London, Ohio, sewer system. Pub Works 73:28 S '42

NEW MEXICO

See also
Geology—New Mexico
Mines and mineral resources—New Mexico
Paleobotany—New Mexico
Petroleum—New Mexico
Petroleum industry and trade—New Mexico

Antiquities

All kinds of ways to dig; suction method used at Sandia cave, New Mexico. J. Feth. il Comp Air M 47:6689-90 Mr '42

Prehistoric mining in America; Mount Chalchihuitl. E. R. Harrington. il Explosives Eng 19:358-60 D '41

NEW MEXICO museum. See Museum of New Mexico, Santa Fe

NEW ORLEANS

Modern New Orleans. il Am Gas J 156:12 My '42

Port of New Orleans. H. Sinclair. 335p $3.50 Doubleday '42

See also
Motor bus lines—New Orleans

NEW ORLEANS public service, inc.

New Orleans public service; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:535-6 N '41

NEW products. See Products, New

NEW SOUTH WALES

See also Mines and mineral resources—New South Wales

NEW thought

Dictionaries

New thought terms and their meanings. E. Holmes. 167p $2 Dodd '42

NEW YORK (city)

City-wide studies. 3v 133p;122p;76p $1.50 Mayor's committee on city planning, New York '42

Eight million; journal of a New York correspondent. M. Berger. 334p $2.50 Simon & Schuster '42

Land-tax illusion; fiscal factor in rise and fall of municipal empires. R. L. Hoguet. Trusts & Estates 75:115-18 Ag '42

See also
Colleges and universities—New York (city)
Housing—New York (city)

Churches

See also
Saint John the Divine, Cathedral of

Commerce

New York city attends to its own business. G. A. Sloan. il Dun's R 50:11-26+ Ag '42

Criminal courts building and city prison

Views, plans, and construction outline. Arch Forum 76:253-60 Ap '42

Foreign population

Refugees at work. S. M. Robison, comp. 83p pa $1.50 Columbia univ. press '42

Galleries and museums

See also
American museum of natural history

Harbor

Maritime history of New York. 341p bibliog(p321-6) $3 Doubleday '41

Model study of tidal currents in East river. L. S. Dillon. il diag maps Civil Eng 12:295-8 Je '42

Hospitals

A.R.P. in hospitals. il diags Arch Forum 77:49-56 Jl '42

George F. Baker pavilion of the New York hospital. Science 95:523 My 22 '42

Period of internships in New York city; recruitment of medical officers. Science 95:92 Ja 23 '42

Industries

Federal agency to aid small plants in N.Y.C. advocated by N.Y. chamber of commerce. Comm & Fin Chr 156:1436 O 22 '42

N.Y. hunts work. Business Week p35-6+ Jl 18 '42

Libraries

Resources of New York City libraries; a survey of facilities for advanced study and research. R. B. Downs. 442p bibliog(p309-403) $4.50 Am. lib. assn, 520 N. Michigan av, Chicago '42

Metropolitan district

Emergency road net laid out for New York metropolitan district. il map Eng N 128:560-1 Ap 9 '42

From plan to reality, three. $1.50 Regional plan assn, 400 Madison av, New York '42

Parkways in New York metropolitan area. S. M. Shapiro. il map Civil Eng 12:239-42 My '42

Parks

Winning designs for New York's Battery park. il Arch Rec 92:92 S '42

Politics and government

Investigating municipal administration; a study of the New York city Department of investigation. H. Seidman. 215p bibliog(p197-200) $2.50 Inst. of public administration, Columbia univ, New York '41

Public health research institute

Public health research institute of the city of New York. Science 96:106 Jl 31 '42

Publications

Fifteen-foot book shelf; printed reports of the La Guardia administration. Munic Ref Lib Notes [N.Y. Pub. Lib] 28:33-8 My '42

List of New York City publications. Published in monthly numbers of Municipal reference library notes [New York public library]

NEW YORK (city)—*Continued*

Railroads

B. & O. revamps l.c.l. routing at New York. il map Ry Age 112:1241-3 Je 27 '42

New York passenger terminals report '41 traffic. Ry Age 112:873-4 My 2 '42

Travel hits a record in New York; Christmas and New Year's holiday period. Ry Age 112:175 Ja 10 '42

Rapid transit

Posters build non-rush revenue; special events, trips to points of interest, etc. given publicity by New York City transit system. E. C. Giddings. il Transit J 85: 418-20 N '41

When the lights are low; transit system plans for blackout. E. C. Giddings. il Transit J 86:206-8 Je '42

See also

Holland tunnel

Third avenue transit corporation

Sanitary affairs

Sanitary land fills in New York city. R. Eliassen and A. J. Lizee. il Civil Eng 12:483-6 S '42

Sewerage

Operation of the Wards Island sewage treatment plant. G. P. Edwards. il diags map Boston Soc C E J 29:229-39 Jl '42

Streets

Relieving platform bulkhead for New York's East River drive. L. C. Hammond. il diags Civil Eng 12:251-4 My '42

Subways

Tunnel construction, Sixth Avenue subway. J. Feld. il diags plans Am Soc C E Proc 67:617-52 Ap '41; Discussion. 67:1759-60; 68: 159-60 N '41, Ja '42

Tunnels

Brooklyn-Battery tunnel to go ahead utilizing materials now on hand. Eng N 128:378 Mr 5 '42

Carbon monoxide and particulate matter in air of Holland tunnel and metropolitan New York. W. P. Yant and others. diags pls U S Bur Mines Rep of Invest 3585:1-69 '41

First shield set up for Battery-Brooklyn tunnel. il Eng N 128:4 Ja 1 '42

Medical study of men exposed to measured amounts of carbon monoxide in the Holland tunnel for 13 years. R. F. Sievers, T. I. Edwards and A. L. Murray. (Pub. health bul. no.278) 74p bibliog(p65-72) U.S. Public health service, Washington; pa 15c Supt. of doc. '42

Water supply

Croton water system marks centennial. Eng N 129:467 O 8 '42

Developing the Neversink watershed. T. L. Wells. il diags maps Explosives Eng 20: 166-74 Je '42

Grouting tunnel lining on the Delaware aqueduct. il diags plan Eng N 128:19-21 Ja 1 '42

Lining the world's longest tunnel; New York City's Delaware water supply system. il diag Eng N 127:792-7 D 4 '41

Merriman dam and Delaware aqueduct; construction progress and methods on water supply project for New York city. R. W. Armstrong. il Civil Eng 12:449-52 Ag '42

Safety in rock tunnel construction; New York City Delaware River aqueduct. F. W. Stiefel. il Explosives Eng 20:239-42 Ag '42

Tunneling under difficulties; part of the Delaware aqueduct was drilled at great depths. R. G. Skerrett. il Sci Am 167:212-14 N '42

World's fair, 1939-1940

New York world's fair 1940; final payment to bondholders. Comm & Fin Chr 156:83 Jl 6 '42

NEW YORK (state)

New York, the Empire state. J. R. Smith. 418p pa 40c John C. Winston co, Philadelphia '42

See also

Geology—New York (state)

Insurance, Unemployment—New York (state)

Insurance law—New York (state)

Mines and mineral resources—New York (state)

Industries

Recent trends in important manufacturing industries in New York. 341p Executive dept, Division of state planning, Albany, N.Y. '41

Insurance department

Insurance dept. now in new home. East Underw 42:5 D 5 '41

Politics and government

New York and the next president; control of both major parties in 1944 is at stake in battle for governorship. il Fortune 26: 84-7+ S '42

NEW YORK academy of medicine

Graduate fortnight. Science 96:376 O 23 '42

Inter-America division

Inter-America bureau of the New York academy of medicine. Science 95:188-9 F 20 '42

NEW YORK & Harlem railroad

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:644 O 3 '42

NEW YORK and Queens electric light and power company

Earnings, 1938-1941. Comm & Fin Chr 155:1216 Mr 23 '42

NEW YORK board of trade

NY trade board to study post war problems. Comm & Fin Chr 156:1171 O 1 '42

Reports '41 activities. Comm & Fin Chr 155: 953 Mr 5 '42

Drug, chemical and allied trades section

Annual meeting, 51st, Nov. 18. Oil Paint & Drug Rep 140:5+ N 24 '41

Insurance section

Annual meeting, 2d. Weekly Underw 145:1397 D 20 '41

NEW YORK botanical garden

Annual report of director. W. J. Robbins. Science 95:253-4; 96:65-6 Mr 6, Jl 17 '42

NEW YORK central railroad

Annual report, year ended Dec. 31, 1941. Comm & Fin Chr 155:1937, 2010 My 21-25 '42; Ry Age 112:961 My 16 '42

Better days for New York Central stock? A. Jansen. Barron's 22:18 Je 29 '42

New York Central bonds sharply depressed. A. Jansen. Barron's 21:19-20 D 15 '41

Utilities board checks up on service. Ry Age 112:266 Ja 24 '42

NEW YORK (state) chamber of commerce

NY commerce chamber elects Hasler president. Comm & Fin Chr 155:1871 My 14 '42

NEW YORK, Chicago and St Louis railroad

Annual report. Comm & Fin Chr 155:1923-4 My 18 '42

Denies complaint of Nickel Plate stockholder. Ry Age 113:504 S 26 '42

Nickel Plate debt structure improved. A. Jansen. Barron's 21:19 D 8 '41

Railroad securities. Comm & Fin Chr 156: 1341 O 15 '42

Railroad securities; preliminary report of Nickel Plate for 1941. Comm & Fin Chr 155:413 Ja 29 '42

Says Nickel Plate is short-changed; stockholder charges that road does not get proper share of divisions. Ry Age 113:351 Ag 29 '42

NEW YORK clearing house association

New officials. Comm & Fin Chr 156:1433 O 22 '42

NEW YORK coffee and sugar exchange
Assume coffee exchange posts. Comm & Fin Chr 156:728 Ag 27 '42
Resign from coffee exchange to enter government service; William Whitney Pinney and Richard L. Lamborn. Comm & Fin Chr 156:527 Ag 13 '42
60 years old. Comm & Fin Chr 155:1062 Mr 12 '42

NEW YORK cotton exchange
Murray again heads N.Y. cotton exchange; other officers. Comm & Fin Chr 155:1869 My 14 '42

NEW YORK curb exchange
Curb members adopt new nominating rule. Comm & Fin Chr 156:1067 S 24 '42
Curb members vote to up commission rates. Comm & Fin Chr 155:2032 My 28 '42
Curb names officers and committee heads. Comm & Fin Chr 155:747 F 19 '42
Governors approve new commission rates. Comm & Fin Chr 155:1855 My 14 '42
Initiation fees cut by N.Y. Curb governors. Comm & Fin Chr 155:2115 Je 4 '42
Insists over-the-counter dealer be protected; proposed proxy amendment. E. E. Chase. Comm & Fin Chr 155:649+ F 12 '42
NY Curb acts to aid members in war service. Comm & Fin Chr 155:659 F 12 '42
N. Y. Curb seat sales. Comm & Fin Chr 156:977 S 17 '42
Rea resigns as head of NY curb exchange. Comm & Fin Chr 155:1440 Ap 9 '42
SEC permits Curb to try special offerings. Comm & Fin Chr 155:1939 My 21 '42
Trading on New York exchanges. Published in weekly Thursday numbers of Commercial & financial chronicle
Wall Street woes. Business Week p78-9 Mr 7 '42
Weekly and yearly record. Published in weekly Monday numbers of Commercial & financial chronicle

NEW YORK dock company
Large yields on New York Dock obligations. Barron's 22:19-20 S 14 '42

NEW YORK fire insurance exchange
New York court upholds Exchange agreement. East Underw 43:26 My 1 '42; Nat Underw 46:12 Ap 30 '42

NEW YORK institute of finance
Announces courses. Comm & Fin Chr 156:883 S 10 '42
Special courses for women in Wall Street. Comm & Fin Chr 155:1691 Ap 30 '42

NEW YORK, New Haven and Hartford railroad
Court rejects ICC reorganization plan; Old Colony and Boston & Providence roads discussed. Comm & Fin Chr 154:1701 D 27 '41
Equipment trusts offered. Comm & Fin Chr 156:1056 S 21 '42
Interest ordered paid by court. Comm & Fin Chr 155:2283 Je 15 '42
ICC approves modified reorganization plan, would permit purchase of Boston & Providence and Old Colony roads. Comm & Fin Chr 156:1419-20 O 19 '42
N.H. revamp plan modified by I.C.C. Ry Age 113:626+ O 17 '42
New ICC plan for the New Haven. A. Jansen. Barron's 22:19-20 O 26 '42
Parties support proceeding with reorganization of New Haven, Old Colony and Boston & Providence roads on basis of recent compromise report. Comm & Fin Chr 155:1681 Ap 27 '42
Railroad securities; revised plan of reorganization filed by Interstate commerce commission. Comm & Fin Chr 156:1429 O 22 '42
Reorganization advanced; annual report. Comm & Fin Chr 155:1515-16 Ap 13 '42
Traffic trends get close study on the New Haven. Ry Age 113:302-5, 344-7 Ag 22-29 '42

NEW YORK, Pennsylvania, New Jersey utilities company
Proposes acquisition of securities, etc. Comm & Fin Chr 154:1730 D 30 '41
SEC issues order permitting declarations to become effective. Comm & Fin Chr 155:923 Mr 2 '42

NEW YORK shipbuilding company
Thumbnail stock appraisal. Mag of Wall St 69:206 N 29 '41

NEW YORK state fruit testing cooperative association
Fruit Testing Cooperative needs more support. P. M. Wagner. Science 95:171 F 13 '42

NEW YORK state sewage works association
Annual meeting, 14th, New York, Jan. 23-24. Water Works & Sewerage 89:75-9 F '42; Eng N 128:172 Ja 29 '42
Spring meeting, Albany. Water Works & Sewerage 89:315-19 Jl '42

NEW YORK state society of professional engineers
Annual meeting, 15th. Eng N 128:832-3 My 21 '42

NEW YORK stock exchange
Board of governors approve revising dues, fees. Comm & Fin Chr 155:1536 Ap 16 '42
Classification and financial experience of the customers of a typical New York stock exchange firm from 1933 to 1938. P. F. Wendt. 269p bibliog(p257-63) pa $2 Paul Francis Wendt, Maryville, Tenn. '41
Course of prices of railroad and miscellaneous stocks, 1941, monthly; tabulation. Comm & Fin Chr 155:462-70 Ja 29 '42
Dealings in foreign government and U.S. securities, monthly, 1941; tabulation. Comm & Fin Chr 155:459-61 Ja 29 '42
Do Wall Street's customers win or lose? analysis of 1000 accounts, 1933-1937. P. F. Wendt. Barron's 22:9-10 Mr 16 '42
Favors large increase, rather than reduction in number of New York stock exchange seats. C. E. Merrill. Comm & Fin Chr 155:1929 My 21 '42
Have a seat? Business Week p17-18 My 2 '42
Increased earnings for NYSE listed companies. Comm & Fin Chr 155:1227 Mr 26 '42
Listings, 1941. Comm & Fin Chr 155:299-300 Ja 20 '42
Members approve revising dues, fees. Comm & Fin Chr 155:1691 Ap 30 '42
Monthly range of prices, 1941; railroad and miscellaneous bonds and stocks and government and state securities; tabulation. Comm & Fin Chr 155:452-70 Ja 29 '42
New York stock exchange and affiliates show reduction in operating loss in 1941; annual financial report. Comm & Fin Chr 155:964-5 Mr 5 '42
NYSE annual shows drop in securities business. Comm & Fin Chr 155:1637 Ap 23 '42
NYSE congratulated on 150th anniversary by President Roosevelt and Secretary Morgenthau. Comm & Fin Chr 155:1938 My 21 '42
N.Y. stock exchange moves to enlarge privileges of members in war service. Comm & Fin Chr 155:113 Ja 8 '42
NYSE short interest lower on Oct. 31; tabulation of last business day for each month for the last two years. Comm & Fin Chr 154:1111 N 20 '41
150th anniversary. Bankers M 144:511-12 Je '42
People of the U.S. appreciate Exchange as part of economic system. E. Schram. Comm & Fin Chr 156:969+ S 17 '42
Real boss of Wall Street. T. F. Willmore. 101p pa $1 T. F. Willmore co., Penobscot bldg., Detroit '41
Roosevelt sees a future for Wall Street. Mag of Wall St 70:159 My 30 '42
Securities market and how it works. B. E. Shultz. 433p bibliog(p398-404) $5 Harper '42
Stock and bond sales, daily, weekly and yearly. Published in weekly Monday numbers of Commercial & financial chronicle
Stock exchange considering revision in members' dues and other charges. Comm & Fin Chr 155:1321 Ap 2 '42

NEW YORK stock exchange—*Continued*

Stock exchange provides new service; machinery is set up to handle special offerings. B. H. McCormack. Barron's 22:20 F 16 '42

Stock market at a glance; price changes, earnings and dividends. Published in weekly numbers of Barron's

Suspends trading in further alien issues. Comm & Fin Chr 155:36 Ja 1 '42

Tiff over specials; refusal of Big Board to approve secondary distribution by Dillon, Reed. Business Week p64+ Ag 29 '42

Trading on New York exchanges. Published in weekly Thursday numbers of Commercial & financial chronicle

Wall Street woes. Business Week p78-9 Mr 7 '42

Who are Wall Street's customers? P. F. Wendt. Barron's 22:18 Mr 30 '42

See also

Association of stock exchange firms

New York curb exchange

Commissions

Common trust fund savings under new brokerage rates. H. D. Roschen, jr. Trusts & Estates 74:407 Ap '42

Increase of 25% on commissions approved by governing board of stock exchange. Comm & Fin Chr 155:929 Mr 5 '42

Specials in stocks; new method of offering shares passes its early tests. Business Week p80-3 Ap 11 '42

Split commissions would benefit both Exchange and over-the-counter firms. Comm & Fin Chr 155:1025+ Mr 12 '42; Reply. B. S. Gardner. 155:1430 Ap 9 '42

History

Sesquicentennial. Barron's 22:1 My 18 '42

Rules

Amends rules to provide for dealings in variations of one thirty-seconds in all stocks selling below 50 cents per share. Comm & Fin Chr 154:1440 D 11 '41

NYSE changes interest rate rules on government bonds. Comm & Fin Chr 154:1120 N 20 '41

NYSE changes trading unit for 16 stocks. Comm & Fin Chr 156:818 S 3 '42

NYSE facilities for special offerings. Comm & Fin Chr 155:658 F 12 '42

NYSE governors favor trading unit change. Comm & Fin Chr 156:450 Ag 6 '42

NYSE members vote for trading unit change. Comm & Fin Chr 156:623 Ag 20 '42

NYSE revises minimum capital requirements. Comm & Fin Chr 156:377 Jl 30 '42

Outside partners. M. L. Hayward. Barron's 22:10 S 7 '42

Ticker service

Stock tape to print bids, offers on bonds. Comm & Fin Chr 155:1524 Ap 16 '42

NEW YORK telephone company

Earnings, 1938-1941. Comm & Fin Chr 155:1413-14 Ap 6 '42

NEW YORK times

Ayer cup to New York times. Ptr Ink 199:74 Ap 17 '42

N.Y. Times agreement; American newspaper guild. Business Week p79 My 9 '42

NEW YORK trust company

Net operating income for 1941. Comm & Fin Chr 155:230 Ja 15 '42

NEW YORK university

Gifts and bequests. Science 94:480 N 21 '41

College of engineering

College of engineering of New York university has established a day division on the Garden City campus of Adelphi. Science 95:547 My 29 '42

Junior engineering students and the war industries. Science 95:320 Mr 27 '42

New York university. E. F. McDougal. il J Eng Educ 32:608-10 Ap '42

College of medicine

Lucius N. Littauer fund of New York university. Science 95:13 Ja 2 '42

Libraries

Report of the librarian of New York university. Science 96:247 S 11 '42

NEW YORK, Westchester & Boston railway

Rails at auction. Business Week p79-80 N 15 '41

NEW YORK zoological society

Expedition of the Department of tropical research of the New York zoological society. Science 96:422 N 6 '42

NEW ZEALAND

Meet the Anzacs! W. L. Holland and P. E. Lilienthal. (Far Eastern pamphlets 7) 48p bibliog(p48) pa 10c Inst. of Pacific relations, 129 E. 52d st, New York '42

See also

Insurance, Social—New Zealand

Labor and laboring classes—New Zealand

Wages—New Zealand

Commerce

New Zealand trade. Can Chem & Process Ind 26:408 Jl '42

Commercial policy

Import restrictions for 1943. For Comm W 8:15 S 26 '42

Economic conditions

New Zealand in 1941. Economist 142:sup9 Mr 14 '42

New Zealand, the other land down under. H. T. Goldstein. il For Comm W 7:3-5+ My 2 '42

Waterfront control commission

Work of the Waterfront control commission in New Zealand. Int Labour R 45:402-7 Ap '42

NEWARK college of engineering

Newark college of engineering. R. W. Van Houten. il J Eng Educ 32:610-12 Ap '42

NEWCOMEN society for the study of the history of engineering and technology

Beginnings of the Newcomen society. A. Titley. Engineer 172:338 N 14 '41; Same cond. Engineering 152:394-5 N 14 '41

Newcomen society; growth of the Society in America and Canada. C. E. Davies. Engineer 172:400-1 D 5 '41; Same cond. Engineering 153:57-8 Ja 16 '42

Summer meeting. Engineer 173:515 Je 19 '42

NEWFOUNDLAND

Game herds of Newfoundland; deer may be introduced. Science 95:sup10 F 20 '42

See also

Paper industry and trade—Newfoundland

Economic conditions

News by countries (cont). For Comm W 5:19 D 6 '41; 7:16-17 My 9; 8:19 Jl 4 '42

NEWHALL, Arthur Brock, 1884-

Portrait. Business Week p22 Ap 11 '42

NEWPORT NEWS, Virginia

Water supply

Strategy and tactics on a wartime waterworks project. E. J. Cleary. il Eng N 129:474-8 O 8 '42

NEWPORT NEWS shipbuilding and dry dock company

Favored war stocks. J. J. Hipple. Mag of Wall St 69:439-40 Ja 24 '42

NEWS

Factors that influence response to advertising and selling efforts; how news affects business. R. Manville. Ptr Ink 199:48 Je 12 '42

How to understand current events; a guide to an appraisal of the news. L. Whipple. 241p $2.50 Harper '41

Social interpretation of news. H. M. Hughes. Ann Am Acad 219:11-17 Ja '42

See also

Radio broadcasting—News

NEWS agencies
See also
Associated press

NEWS photographs
See also
War photographs

NEWSPAPER advertising. See Advertising mediums—Newspapers

NEWSPAPER advertising, inc.
From radio's book; selling blocks of space over newspaper networks. Business Week p48 Ja 10 '42

NEWSPAPER advertising executives association
Fall conference. Ptr Ink 201:24+ O 23 '42

NEWSPAPER ethics
Ideal newspaper of the future. A. T. Robb. Ann Am Acad 219:169-75 Ja '42
Press reforms. R. Lawrence. Ann Am Acad 219:158-65 Ja '42

NEWSPAPER offices
New bulwark of free speech; Asheville Citizen-Times building, Asheville, N.C. il plans Arch Rec 92:45-7 Ag '42

Air conditioning

Painesville Telegraph air conditions its windowless plant; method of zone control. L. T. Avery. il plans Heat & Ven 39:28-31 F '42
Twelve newspapers report on their experiences with air conditioning. D. W. Miller. Heat & Ven 39:40-1 Jl '42

Electric equipment

Electricity and the newspaper. N. Haglöv. il Electrician 129:295-8 S 18 '42

NEWSPAPER representatives, American association of. See American association of newspaper representatives

NEWSPAPERS
How to understand current events; a guide to an appraisal of the news. L. Whipple. 241p $2.50 Harper '41
Newspaper and society; a book of readings. G. L. Bird and F. E. Merwin, eds. 627p $5.35; text ed $4 Prentice-Hall '42
Newspaper editing, make-up and headlines. N. J. Radder and J. E. Stempel. 2d ed 398p bibliog(p386-7) $3 McGraw-Hill '42
Newspaper industry advisory committee. Comm & Fin Chr 156:1551 O 29 '42
Newspaper pinch; meeting of American newspaper publishers association. Business Week p48 My 2 '42
Newspapers to conduct campaigns for scrap. Comm & Fin Chr 156:989 S 17 '42
Political handbook of the world; parliaments, parties and press as of Jan. 1, 1942. W. H. Mallory, ed. 202p $2.50 Harper '42
President praises newspapers' war role. Comm & Fin Chr 156:1181 O 1 '42
Press in the contemporary scene. M. M. Willey and R. D. Casey, eds. Ann Am Acad 219:1-175 Ja '42
Review and forecast. B. C. Duffy. il Adv & Sell 35:99-100, 102, 104 F '42
Understanding the news. W. Spearman. 40p bibliog(p37) pa 50c Univ. of North Carolina, Univ. extension lib, Chapel Hill '42
Working with the press; abstract. Y. C. Cline. Management R 31:120-2 Ap '42

See also
Advertising, Soliciting of
Advertising mediums—Newspapers
Army newspapers
Associated press
Audit bureau of circulations
Freedom of the press
Newsprint paper
Periodicals
Printing, Practical
also names of newspapers, e.g.
Boston evening transcript
Chicago Sun
New York herald tribune
Philadelphia public ledger

Advertising

Hey, Mr Publisher, how about a better deal for national? B. E. Tacks. Sales Management 50:24 Ap 20 '42

Advertising mediums

See Advertising mediums—Newspapers

Bibliography

Louisiana newspapers, 1794-1940; union list of Louisiana newspaper files available in office of publishers, libraries, and private collections in Louisiana. 295p Louisiana state univ, Hill memorial lib, University, La. '41
Newspaper discrimination; an annotated bibliography. E. Dale and V. Spicer. 27p pa 25c Bur. of educational research, Ohio state univ, Columbus '42

Book reviews

Reviewing and criticism. J. D. Adams. Ann Am Acad 219:145-50 Ja '42

Consolidations

Chattanooga papers unite. Comm & Fin Chr 155:1951 My 21 '42

Delivery

ODT modifies curb on newspaper deliveries. Comm & Fin Chr 155:2120 Je 4 '42
ODT orders restriction of newspaper deliveries. Comm & Fin Chr 155:1780 My 7 '42

Editorials

Editorial page. C. Merz. Ann Am Acad 219:139-44 Ja '42
Newspaper and community leadership. E. W. Allen. Ann Am Acad 219:25-31 Ja '42

Employees

Drivers pacified? work-sharing is seen as solution of Pittsburgh Press impasse. Business Week p75 Ag 8 '42
N.Y. Times agreement; American newspaper guild. Business Week p79 My 9 '42
Upholds Labor board in Newark Ledger case. Comm & Fin Chr 154:1672 D 25 '41

Farm news

Press and agricultural news. W. A. Sumner. Ann Am Acad 219:114-19 Ja '42

Finance

Funds for daily; sale of Marshall Field stock will build war chest for new Chicago newspaper. Business Week p60-1 N 22 '41

Financial news

You're trading? most people aren't; newspapers cut financial space. Business Week p72-4 My 16 '42

Foreign correspondents

International news coverage and foreign news communication. R. O. Nafziger. Ann Am Acad 219:132-8 Ja '42

Format

Chicago's new morning paper, the Sun, makes format news; styled by G. P. Farrar. D. May. il Inland Ptr 108:39-43 Ja '42
See also
Newspapers—Size

Free distribution

Plane paper published for workers in southern California factories, Los Angeles aircraft times. Business Week p64+ O 10 '42

Government news

Reporting of public affairs. F. E. Merwin. Ann Am Acad 219:120-6 Ja '42
See also
Newspapers—Washington correspondents

History

Plain Dealer; one hundred years in Cleveland. A. H. Shaw. 402p $4 Knopf '42

Indexes

Newspaper indexing. H. A. Friedman. 261p bibliog(p245-54) pa $2.50 Marquette univ. press, Milwaukee '42

NEWSPAPERS—*Continued*

Labor news

Press and labor news. L. Stark. Ann Am Acad 219:107-13 Ja '42

Law

Legal developments affecting the press. F. S. Siebert. Ann Am Acad 219:93-9 Ja '42

See also
Freedom of the press

Management

New plan for handling advertising copy. Ptr Ink 200:30 Ag 14 '42

Prices

Cleveland and other papers raise price. Comm & Fin Chr 155:1782 My 7 '42

Gannett papers up prices. Comm & Fin Chr 155:1640 Ap 23 '42

Journal of commerce, other papers up price. Comm & Fin Chr 155:1444 Ap 9 '42

Publicity

Newspaper promotion and research. R. E. Dyar. 270p $3.50 Harper '42

Reader interest

Daily newspapers and its competitors; magazine and radio. P. F. Lazarsfeld. Ann Am Acad 219:32-43 Ja '42

Press, reader habits, and reader interest. C. R. Bush and D. L. Teilhet. Ann Am Acad 219:7-10 Ja '42

Scientific news

Science and the press. W. Davis. Ann Am Acad 219:100-6 Ja '42

Service

Newspapers get big price control job; helping retailers to comply with ceiling price regulation and making anti-inflation copy. il Ptr Ink 200:20-1 S 25 '42

Newspapers get in the scrap. Ptr Ink 200:64 S 25 '42

Omaha World-Herald plan gives Nebraska scrap record. Sales Management 51:60 S 15 '42

Size

Two turn tabloid; Rocky Mountain news, New York evening post. Business Week p54 Ap 18 '42

Social aspects

Newspaper and community leadership. E. W. Allen. Ann Am Acad 219:25-31 Ja '42

Syndicate service

Newspaper syndication and its social significance. C. D. MacDougall. Ann Am Acad 219:76-81 Ja '42

Typography

Ayer cup to New York times. Ptr Ink 199:74 Ap 17 '42

Chicago's new morning paper, the Sun, makes format news; styled by G. P. Farrar. D. May. il Inland Ptr 108:39-43 Ja '42

Newspaper typography; a textbook for journalism classes. H. E. Jackson. 178p bibliog (p155-6) $2.75 Stanford univ. press '42

Washington correspondents

Reporting the Washington news. R. Wilson. Ann Am Acad 219:127-31 Ja '42

Weekly newspapers

Country editor. H. B. Hough. 325p $1 Blue ribbon books '42

Role of the weekly newspaper. C. E. Rogers. Ann Am Acad 219:151-7 Ja '42

Canada

See also
Winnipeg free press

Chicago

Battle for Chicago; Marshall Field's new Chicago Sun. il Fortune 25:72-7+ F '42

Chicago sunrise; new morning daily backed by Marshall Field. il Business Week p60 D 13 '41

Sun scoreboard. Business Week p46+ Ja 17 '42

Great Britain

Advertising in British newspapers. Adv & Sell 35:66+ Je '42

Associated newspapers limited, 37th annual ordinary general meeting, London. Economist 142:842 Je 13 '42

Daily mirror; controversy regarding threatened suppression. Economist 142:419 Mr 28 '42

Daily Mirror debate. Economist 142:459 Ap 4 '42

Daily worker; lifting the ban. Economist 142:788 Je 6 '42

Newspaper earnings; accounts for latest calendar year. Economist 142:837 Je 13 '42

Latin America

Latin American newspapers and propaganda. H. P. Bakewell. Special Lib 32:378-80 D '41

United States

Administration's foreign policy; a year's index of newspaper support. Fortune 26:9 Ag '42

NEWSPRINT association of Canada

Role of the Newsprint association of Canada. P. Kellogg. Pulp & Pa of Can (Convention no) 43:70-1 [F] '42

NEWSPRINT paper

Canada board curtails newsprint production. Comm & Fin Chr 156:1640 N 5 '42

Canada will allocate newsprint orders. Paper Tr J 115:7, 17 S 10 '42

Diatoms in paper manufacture. H. W. Hall. Paper Tr J 115:107-9 O 1 '42

Fair treatment of newsprint mills assured. Paper Tr J 115:7, 16 S 24 '42

Less newsprint to be available next year; orders issued by power controller and selective service head in Canada. Paper Tr J 115:11 O 29 '42

Neighbours built an industry; International co-operation in development of Canadian newsprint industry. J. N. Stephenson. il Pulp & Pa of Can 42:714-19 N '41; Same cond. Tech R 43:161-3+ F '41

Newsprint papers; relationship between ink drying and paper properties. L. J. Morin. Can Chem & Process Ind 26:370+ Je '42

Newsprint pool; need for power and for labor in war industry causes Canada to weigh concentration and over-all limit at 75%. Business Week p48+ S 5 '42

No Canadian newsprint shortage foreseen. Paper Tr J 114:9 Mr 12 '42

Report of the newsprint committee, Canadian pulp and paper association. Pulp & Pa of Can (Convention no) 43:170-2 [F] '42

Slime control in a modern newsprint mill. N. S. Grant. diags plans Pulp & Pa of Can (Convention no) 43:89-93 [F] '42

Speculation on concentration of newsprint; Premier Hepburn talks to protesting delegation. Paper Tr J 115:9 S 10 '42

Steam saved by better water removal at the presses. W. G. MacNaughton. diags Paper Tr J 115:33-40 Ag 27 '42

Systematic control for newsprint mills. Pulp & Pa of Can 43:745-6 S '42

U.S. and Canadian unification is expected; plan would coordinate all newsprint mills on continental basis. Paper Tr J 115:9 O 29 '42

War may affect paper roll sizes. R. R. Buvinger. Pulp & Pa of Can 43:263-4 F '42

Wood handling system of a modern newsprint mill; Lake St John power & paper co. F. R. MacDonald. il Pulp & Pa of Can 43:366-8 Ap '42

Prices

New OPA order freezes U.S. newsprint prices. For Comm W 7:25-6 Ap 18 '42

Newsprint price at $50 seems stabilized. Paper Tr J 115:10 Jl 16 '42

OPA $50 price disappoints Canadian mills. Paper Tr J 114:7+ Ap 2 '42

NEWSPRINT paper—Prices—*Continued*

OPA fixes newsprint price at $50 per ton. Paper Tr J 114:28 My 7 '42

OPA freezes newsprint prices. Paper Tr J 114:12 Ap 2 '42

Statistics

Newsprint output in North America reached new high mark. R. S. Kellogg. Paper Tr J 114:40, 42, 44 F 19 '42; Same. Pulp & Pa of Can 43:245-8 F '42

NEWTON, Isaac, 1642-1727

Galileo, Newton, and Halley. Engineering 154: 334-5 O 23 '42

NEWTONIAN attraction. See Attractions

NIACIN (term)

Nicotinic acid; Food and nutrition board of the National research council recommends acceptance of niacin as synonym. R. F. Griggs. Science 95:171 F 13 '42

Now it's niacin. Business Week p30+ Mr 21 '42

NIAGARA falls

Niagara control weir; abstract. N. Marr and others. Eng N 129:536-7 O 22 '42

Story the rocks tell of Niagara falls; its past, present, and future. G. C. Forrester. il diags map Chem & Eng N 20:899-903 Jl 25 '42

NIAGARA FALLS, New York

Bridges

Niagara's Rainbow bridge. R. G. Skerrett. il Comp Air M 46:6584-6 N '41

Rainbow bridge, Niagara Falls. il diags Engineer 172:349-51, 377-9 N 21-28 '41

Weighing reactions of Rainbow bridge. J. Jones. diags Civil Eng 11:730-1 D '41

Industries

Salt-consuming industries of Niagara Falls. J. Searles. bibliog il map Chem & Eng N 20:997-1002 Ag 25 '42

NIAGARA FALLS power company

Decision reserved; company asked stay of execution of FPC order. Comm & Fin Chr 156:1691-2 N 9 '42

FPC fixes original cost of Niagara Power. Elec W 117:2232 Je 27 '42; Eng N 128:1031 Je 25 '42

Federal power commission opinion, June 9, 1942. J. L. Dohr. J Account 74:287 S '42

FPC will enforce order. Comm & Fin Chr 156:1056 S 21 '42

Valuation cut by $15,787,688; cost of project no. 16. Comm & Fin Chr 155:2460 Je 29 '42

NIAGARA Hudson power corporation

Effect proposed taxation will have on system outlined. Comm & Fin Chr 156:83 Jl 6 '42

Income account, calendar years, 1940 and 1941. Comm & Fin Chr 156:434 Ag 3 '42

Niagara Hudson asks dismissal of SEC order. Elec W 118:1279 O 17 '42

Niagara Hudson cited in commission order. Elec W 118:777 S 5 '42

SEC amends death sentence order. Comm & Fin Chr 156:1154 S 28 '42

SEC to investigate company. Comm & Fin Chr 156:867 S 7 '42

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:14 O 17 '42

Utility selling at 2½ times earnings. H. Lawrence. Barron's 22:20 F 9 '42

NIAOULI oil

Tea-tree oils. E. S. Guenther. bibliog il Soap & San Chem 18:23-5+ Ag '42

NICARAGUA

Living and office operating costs in Nicaragua. For Comm W 6:8-9 Mr 21 '42

U.S., Nicaragua agree on joint defense plan. Comm & Fin Chr 155:1782 My 7 '42

See also
Gold mines and mining—Nicaragua

NICHOLS, Henry William, 1891-

Vice-president and general counsel of National surety corporation. por East Underw 42:96+ D 12 '41

NICHOLS medal

Award of the William H. Nichols medal to Dr Duncan A. MacInnes; previous recipients. Science 94:434 N 7 '41

NICHROME

Nichrome wire substitute in brooder coils. Elec West 89:63 Jl '42

NICKEL

Absorption spectra of para- and diamagnetic nickel complexes. J. E. Mills and D. P. Mellor. Am Chem Soc J 64:181-2 Ja '42

Behavior of esters over Raney nickel. P. L. de Benneville, W. R. McClellan and R. Connor. bibliog Am Chem Soc J 63:3541-2 D '41

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Copper(II) and nickel(II) complex ions of diethylenetriamine. H. M. Haendler. bibliog Am Chem Soc J 64:686-8 Mr '42

Decomposition of carbon monoxide by ferromagnetic metals. F. Olmer. bibliog diag J Phys Chem 46:405-14 Mr '42

Decomposition of ozonides with Raney nickel. N. C. Cook and F. C. Whitmore. Am Chem Soc J 63:3540 D '41

Emissivities and temperature scales of the iron group. H. B. Wahlin and R. Wright. J Ap Phys 13:40-2 Ja '42

In reference to the catalytic reduction of esters using nickel alone as a catalyst. C. L. Palfray. Am Chem Soc J 63:3540-1 D '41

Intensities of monochromatic continuous X-rays from atomic targets of nickel. K. Harworth and P. Kirkpatrick. bibliog diag Phys R 62:334-9 O 1 '42

K-absorption edges of metal ions in aqueous solution. W. W. Beeman and J. A. Bearden. bibliog Phys R 61:455-8 Ap 1 '42

Mechanism of the catalytic conversion of para-hydrogen on nickel, platinum and palladium. A. Farkas and L. Farkas. bibliog Am Chem Soc J 64:1594-9 Jl '42

Nickel and copper in bitumens; abstract. G. A. Fester and J. Cruellas. Chem & Met Eng 49:167 Ag '42

Nickel from Cuba. W. L. Batt. il For Comm W 7:4-5+ My 30 '42

Nickel from Cuba; low-grade ore will be worked by Freeport sulphur co. subsidiary. Business Week p77-8 Mr 28 '42

Nickel helps the United Nations' war effort. T. H. Wickenden. Metal Prog 42:533 O '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

Nickel under wartime conditions. Can Chem & Process Ind 26:206 Ap '42

Properties of pure nickel. E. M. Wise and R. H. Schaefer. bibliog Metals & Alloys 16:424-8 S '42 (to be cont)

Scrap piles offer a reserve source of nickel. Steel 109:53+ D 29 '41; Same. Oil & Gas J 40:46 D 18 '41; Same abr. Sci Am 166:281 Je '42

Solubility of nickel ions in aqueous alkaline carbonate-tungstate solutions. M. L. Holt and D. A. Swalheim. bibliog Electrochem Soc Trans 81 (preprint 2):11-25 Ap '42

Spinning of monel and nickel sheet. Engineering 153:430 My 29 '42

Study of the effect of core wire temper on the quality of welds in nickel, monel and inconel. F. G. Flocke and K. M. Spicer. il Welding J 21:sup129-32 Mr '42

Study of the products obtained by the reducing action of metals upon salts in liquid ammonia solutions; the reduction of complex nickel cyanides: mono-valent nickel. J. W. Eastes and W. M. Burgess. diag Am Chem Soc J 64:1187-9 My '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

Thermionic properties of the iron group. H. B. Wahlin. bibliog Phys R 61:509-12 Ap 1 '42

NICKEL—*Continued*

Zeeman effects in the arc spectrum of nickel. C. H. Lindsley. bibliog Opt Soc Am J 32:94-7 F '42

Zeeman effects in the spectrum of singly ionized nickel. C. H. Lindsley. Opt Soc Am J 32:387-9 Jl '42

See also

Coins

Analysis

Colorimetric determination of nickel with ammonia; a spectrophotometric study. J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:289-92 Ap 15 '42

Determination of copper and nickel in steels; determination of copper by electro-deposition and nickel by cyanide titration. L. Silverman, W. Goodman and D. Walter. Ind & Eng Chem Anal ed 14:236-7 Mr 15 '42

Rapid detection of nickel in alloy steel. T. H. Williams. bibliog Ind & Eng Chem Anal ed 14:72-3 Ja 15 '42

Rapid nickel tests speed metal segregation. B. McCamant. Iron Age 150:60 Ag 20 '42

Conservation

Conservation and substitution in Cr-Ni-Fe alloys; true economy in the use of chromium and nickel. M. A. Hunter. Metal Prog 41:49-51 Ja '42; Discussion. F. B. Foley. 41:361-2 Mr '42

Economising nickel; alternative alloys for control gear. Elec R (Lond) 131:387-91 S 25 '42

Possible substitutes for nickel in the present five-cent coin. C. T. Anderson. U S Bur Mines Rep of Invest 3658:1-6 '42

Isotopes

Radioactive isotopes of nickel and their assignments. M. E. Nelson, M. L. Pool and J. D. Kurbatov. bibliog Phys R 61:428-31 Ap 1 '42

Prices

Price schedule, secondary, nickel scrap. Iron Age 149:126+ Ja 1 '42

Specifications

Specifications for nickel and nickel-base alloy products; reference book sheet. Am Mach 86:1253 O 29 '42

NICKEL alloys

Alloys of manganese-nickel and copper; the coefficient of thermal expansion. R. S. Dean, C. T. Anderson and E. V. Potter. il Am Soc for Metals Trans 29:907-12 D '41

Alloys of manganese-nickel and copper; the electrical resistance and temperature coefficient of electrical resistance. R. S. Dean and C. T. Anderson. Am Soc for Metals Trans 29:899-906 D '41

Cobalt-nickel deposition. C. C. Downie. Elec R (Lond) 131:11-12 Jl 3 '42

Conservation and substitution in Cr-Ni-Fe alloys; true economy in the use of chromium and nickel. M. A. Hunter. Metal Prog 41:49-51 Ja '42; Discussion. F. B. Foley. 41:361-2 Mr '42

Corrosion of binary alloys; systems Fe-Ni, Fe-Co, Fe-Mn, Ni-Cu, Ni-Co, Ni-Mn, Ni-Ta. R. Landau and C. S. Oldach. diags Electrochem Soc Trans 81 (preprint 16): 199-231 bibliog(62 references, p229-31) Ap '42

Cupro-nickels; properties, charts. R. A. Wilkins and E. S. Bunn. Product Eng 13:350-4 Je '42

Economising nickel; alternative alloys for control gear. Elec R (Lond) 131:387-91 S 25 '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Electrodeposition of nickel-tungsten alloys from an acid plating bath. M. L. Holt and M. L. Nielsen. il Electrochem Soc Trans 82 (preprint 3):21-31 O '42

G.E.C. Heavy alloy, made by sintering tungsten powder with copper and nickel. Engineer 172:sup[Metallurgist] 39-40 O 31 '41

Heavy alloy developed by the British General electric co. G. H. S. Price, S. V. Williams and G. J. O. Garrard. Metal Prog 41:337+ Mr '42

Homogenization of copper-nickel powder alloys. F. N. Rhines and R. A. Colton. bibliog diag Am Soc for Metals Trans 30:166-88; Discussion. 188-90 Mr '42

Magnetic materials for electrical indicating instruments. A. J. Corson. bibliog il diags Gen Elec R 45:573-5 O '42

New alloy for working at high temperature; K-42-B; nickel, cobalt, titanium, iron, chromium. P. H. Brace. il Metal Prog 41:354-60 Mr '42

New drawing compound for nickel alloys; Diglycol stearate S. Iron Age 149:63 My 7 '42

Nickel alloy permits quick repair of bearings on rubber machinery. H. M. Donepp. il diag Rubber Age 51:129-31 My '42

Nickel-molybdenum system. F. H. Ellinger. il Am Soc for Metals Trans 30:607-37; Discussion. 638 S '42

Powder metallurgy. F. C. Kelley. il diags Elec Eng 61:468-75 S '42; Same cond. Automotive Ind 85:34, 56+ D 15 '41

Study of the effect of core wire temper on the quality of welds in nickel, monel and inconel. F. G. Flocke and K. M. Spicer. il Welding J 21:sup129-32 Mr '42

Working of high-nickel alloys. diags Am Mach 86:885-904 Ag 20 '42

X-ray investigation of iron-nickel-chromium alloys. A. J. Bradley and H. J. Goldschmidt. bibliog Iron & Steel Inst J 144:273-83; Discussion. 284-8 no 2 '41

See also

Alnico
Chromium nickel steel
Monel metal
Nickel steel
Permalloy
Vitallium

Analysis

Silicon, manganese, chromium, iron, and copper in a nickel-base alloy; an aliquot method for routine analysis of an electrical heat-resisting alloy. L. Silverman. Ind & Eng Chem Anal ed 14:554-5 Jl 15 '42

Specifications

Specifications for nickel and nickel-base alloy products; reference book sheet. Am Mach 86:1253 O 29 '42

NICKEL arsenides

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

NICKEL chromium molybdenum steel

Application of spectrographic methods to the analysis of segregates. F. G. Barker, J. Convey and J. H. Oldfield. Iron & Steel Inst J 144:183-93, pl 18-20; Discussion. 194-201 no 2 '41

NICKEL chromium steel

See also

Chromium nickel steel

NICKEL clad steel. See Steel, Nickel clad

NICKEL company of Canada, International. See International nickel company of Canada

NICKEL compounds

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

Configuration of organic coördination compounds of nickel, with especial reference to bis-formylcamphor-ethylenediamine-nickel. H. S. French, M. Z. Magee and E. Sheffield. bibliog Am Chem Soc J 64:1924-8 Ag '42

Phase transitions; the heat capacity of nickel nitrate hexammoniate from 54 to 300°K; the transition at 243°K. E. A. Long and F. C. Toettcher. bibliog Am Chem Soc J 64:629-32 Mr '42

NICKEL cyanides

Study of the products obtained by the reducing action of metals upon salts in liquid ammonia solutions; the reduction of complex nickel cyanides: mono-valent nickel. J. W. Eastes and W. M. Burgess. diag Am Chem Soc J 64:1187-9 My '42

NICKEL disalicylaldehyde

Change in magnetic susceptibility of nickel disalicylaldehyde on hydrogenation. M. A. Fobes and G. N. Tyson, jr. Am Chem Soc J 63:3530 D '41

NICKEL industry and trade

Nickel control loopholes plugged. Oil Paint & Drug Rep 141:5 Ja 26 '42

Nickel production at new high. Comm & Fin Chr 155:39 Ja 1 '42

Southern firm to produce war-vital nickel. il Manuf Rec 111:26-7 Ap '42

World nickel production and consumption in 1941. R. C. Stanley. Comm & Fin Chr 155: 475-6 Ja 29 '42; Same. Blast F & Steel Pl 30:152+ Ja '42

See also International nickel company of Canada

NICKEL mines and mining

Nickel, a magic mineral. L. H. Strack. 46p bibliog(p46) $1 Harper '41

Oregon

Nickel deposit near Riddle, Douglas county. W. T. Pecora and S. W. Hobbs. map U S Geol S Bul 931-I:205-26, pl 37-8; pa 20c Supt. of doc. '42

NICKEL molybdenum steel

Possible use of nickel molybdenum steel at high temperatures. Oil & Gas J 41:46 Je 18 '42

NICKEL nitrate

Phase transitions; the heat capacity of nickel nitrate hexammoniate from 54 to 300°K; the transition at 243°K. E. A. Long and F. C. Toettcher. bibliog Am Chem Soc J 64:629-32 Mr '42

NICKEL ores

Geology and ore deposits of the Dillon nickel prospect, southwestern Montana. H. Sinkler. il map Econ Geol 37:136-52 Mr '42

Geology and paragenesis of the nickel ores of the Cuniptau mine, Goward Nipissing district, Ontario. B. T. Sandefur. il Econ Geol 37:173-87 My '42

Nickel deposit near Gold Hill, Boulder county, Colorado. E. N. Goddard and T. S. Lovering. U S Geol S Bul 931-O:349-62, pl 59-60; pa 30c Supt. of doc. '42

Nickel deposit near Riddle, Douglas county, Oregon. W. T. Pecora and S. W. Hobbs. map U S Geol S Bul 931-I:205-26, pl 37-8; pa 20c Supt. of doc. '42

Nickel deposit near Riddle, Ore. Eng & Min J 143:44 Jl '42

Nickel deposits of Bohemia basin and vicinity, Yakobi Island, Alaska. J. C. Reed and J. V. Dorr, 2d. map U S Geol S Bul 931-F:105-38, pl 20-23; pa 70c Supt. of doc. '42

Nickel-gold deposit near Mount Vernon, Skagit county, Washington. S. W. Hobbs and W. T. Pecora. il fold maps U S Geol S Bul 931-D:57-78; pa 15c Supt. of doc. '41

NICKEL oxide

Glasses colored with nickel oxide; abstract. O. Přidal. Am Cer Soc J 25 (Cer A 21):8 Ja '42

NICKEL Plate road. See New York, Chicago and St Louis railroad

NICKEL plating

Cathode films in tungstate-containing plating baths. M. L. Nielsen and M. L. Holt. bibliog Electrochem Soc Trans 82 (preprint 11):115-23 O '42

Cleaning and bright plating steel parts of electric irons. F. A. Maurer. il Metal Finishing 39:657-61 D '41

Cobalt-nickel deposition. C. C. Downie. Elec R (Lond) 131:11-12 Jl 3 '42

Crankshafts; effect of chromium-deposition; use of nickel; abstract. R. E. Wilson. Automobile Eng 32:272 Jl '42

Effect of wetting agents on electrodeposition of nickel. R. F. Davis, K. M. Wolfe and W. G. France. bibliog il Ind & Eng Chem 33:1546-8 D '41

Electrodeposition of hard nickel. W. A. Wesley and E. J. Roehl. bibliog il Electrochem Soc Trans 82 (preprint 1):1-16 O '42; Abstract. Iron Age 150:64-5 S 3 '42

Electrodeposition of nickel-tungsten alloys from an acid plating bath. M. L. Holt and M. L. Nielsen. il Electrochem Soc Trans 82 (preprint 3):21-31 O '42

Further considerations of hydrogen as a cause of enamel defects. C. A. Zapffe and C. E. Sims. bibliog il Am Cer Soc J 25:205-15 Ap 1 '42

Heavy nickel plating; abstract. W. M. Tucker. Metals & Alloys 15:1044+ Je '42

Interpretation of the mechanism of bright electroplating. J. A. Henricks. bibliog Electrochem Soc Trans 82 (preprint 22):237-56 O '42

Nickel plating magnesium alloys. W. S. Loose. il Electrochem Soc Trans 81 (preprint 6):51-67 Ap '42; Excerpts. Iron Age 149:68 My 7 '42; Abstracts. Chem & Met Eng 49:186 My '42; Metals & Alloys 16:146+ Jl '42

Plating alloys; black and gray nickel deposits. C. B. F. Young. il Iron Age 149: 46-8 F 19 '42

Scratch blisters. C. A. Zapffe and J. L. Yarne. il diags Am Cer Soc J 25:180-90 Ap 1 '42

Solubility of nickel ions in aqueous alkaline carbonate-tungstate solutions. M. L. Holt and D. A. Swalheim. bibliog Electrochem Soc Trans 81 (preprint 2):11-25 Ap '42

Specification plating; recovery of over and under machined parts as well as worn parts; Platex, inc. T. E. Lloyd. il diag Iron Age 150:58-60 Jl 16 '42

Strange phenomenon in plating. O. P. Watts. Electrochem Soc Trans 82 (preprint 2): 17-19 O '42; Abstract. Science 96:sup8 O 9 '42

Testing

How to determine the fabricating qualities of nickel electrodeposits. F. P. Romanoff. il Steel 111:98, 100, 104, 116-17 S 7; 86, 89 S 21 '42

Salt spray and ocean spray testing compared; abstract. C. E. Heussner. Iron Age 149:65-6 Je 25 '42

NICKEL steel

Possible alternates for nickel, chromium and chromium-nickel constructional alloy steels. 143p pa 50c Am. iron and steel inst, New York '42

Rapid nickel tests speed metal segregation. B. McCamant. Iron Age 150:60 Ag 20 '42

War products consultation; pickling of 3.5% nickel steel and 1.3% chromium steel. il Metal Prog 41:350-1 Mr '42

Weld quench gradient tests. W. H. Bruckner. il diag Welding J 21:sup496-500 O '42

See also
Chromium nickel steel

NICKEL sulfate

Natural rotatory power of nickel sulphate at low temperature. P. Rudnick and L. R. Ingersoll. Opt Soc Am J 32:622-6 O '42

Partial molal volumes of nickel sulfate solutions. R. W. Gelbach and H. M. Louderback. Am Chem Soc J 64:2379 O '42

Ultraviolet rotatory power of crystalline nickel sulfate at the temperature of liquid oxygen. W. C. Knopf, jr. and W. C. Gilmore, jr. bibliog diag Opt Soc Am J 32: 619-21 O '42

NICKEL sulfinates

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

NICKEL sulfonates

Compounds of naphthoic acids with their copper and nickel salts; copper and nickel sulphinates and their oxidation to sulphonates. Mrs W. G. Wright. Chem Soc J p263-6 Ap '42

NICKEL tungstate
Solubility of nickel ions in aqueous alkaline carbonate-tungstate solutions. M. L. Holt and D. A. Swalheim. bibliog Electrochem Soc Trans 81 (preprint 2):11-25 Ap '42

NICOLAS, Joep
New process for glass as art medium; Nicolas murals of flashed opaque glass. T. Laymon. Glass Ind 22:518-20 D '41

NICOLET national forest
Fire control and fire control roads. L. Tausch, jr. il map Roads & Sts 85:54-6+ S; 41-3, 62 O '42

NICOTINALDEHYDE
Synthesis of the three isomeric *dl*-β-pyridylalanines. C. Niemann, R. N. Lewis and J. T. Hays. bibliog Am Chem Soc J 64:1678-82 Jl '42

NICOTINE
Azeotrope of nicotine and water. D. F. Kelly, M. J. O'Connor and J. Reilly. Chem Soc J p511-13 Ag '42
Azeotropism in the system nicotine-water; separation of nicotine from related alkaloids by aqueous distillation. C. R. Smith. Ind & Eng Chem 34:251-2 F '42
Industrial utilization of tobacco; abstract. M. J. Copley, R. K. Eskew and J. J. Willaman. Chem & Met Eng 49:156 Je '42
Limits of inflammability and ignition temperatures of nicotine in air. G. W. Jones, G. S. Scott and W. E. Miller. diags U S Bur Mines Rep of Invest 3640:1-5 '42

NICOTINE sulfate
Prices frozen. Oil Paint & Drug Rep 141:4 F 16 '42

NICOTINIC acid
Anti-pellagra vitamin; remedy for Ménière's disease; abstract. M. Atkinson. Science 95:sup13 My 8 '42
Nicotinic acid; Food and nutrition board of the National research council recommends acceptance of niacin as synonym. R. F. Griggs. Science 95:171 F 13 '42
Now it's niacin. Business Week p30+ Mr 21 '42

Analysis

Chemical determination of nicotinic acid content of flour and bread. D. Melnick, B. L. Oser and L. Siegel. bibliog Ind & Eng Chem Anal ed 13:879-83 D 15 '41
Extraction and assay of nicotinic acid from animal and plant tissues; comparison of methods. V. H. Cheldelin and R. R. Williams. bibliog Ind & Eng Chem Anal ed 14:671-5 Ag 15 '42
New colorimetric method for determining small quantities of nicotinic acid. R. P. Daroga. bibliog Soc Chem Ind J 60:263-6 O '41
Nicotinic acid content of cereals and cereal products; microbiological method of assay. J. S. Andrews, H. M. Boyd and W. A. Gortner. bibliog Ind & Eng Chem Anal ed 14:663-6 Ag 15 '42
Progress report on the collaborative study sponsored by the research corporation of methods for the determination of niacin in cereal products. Can Chem & Process Ind 26:367 Je '42

NIELSEN, J. Rud
Sketch. por Oil & Gas J 40:80 Ja 22 '42

NIGERIA
See also
Lumber trade—
Nigeria

NIGHT clubs
Night club is added to a southern restaurant; Remler's night club, Savannah, Ga. il plan Arch Rec 91:70-1 F '42

NIGHT vision. See Eye—Accommodation and refraction

NIGHT work
I'd like the night shift, if—. E. Busky. il Factory Management 100:104-5+ O '42
Management tackles the night shift problem. J. K. Westerfield. Am Business 12:18-20 F '42; Abstract. Management R 31:241-2 Jl '42
Market that lives upside down; quick picture of the night-shift worker, his buying habits, needs and complaints. G. Bijur. diag Adv & Sell 35:13-15+ Ap '42; Abstract. Management R 31:135-7 Ap '42
Premiums for the night shift. Management R 30:461 D '41

NIKITIN, Alexander Alexis, 1894-
Personalities in chemistry. A. D. McFadyen. por Chem Ind 50:32-3+ Ja '42

NIMITZ, Chester William, 1885-
Sketch. por(cover) Spectator (Life ed) 149:90 Ag '42

NINETEEN hundred and forty-one
Call it a year; 1941's eventful span. P. H. Erbes, jr. Ptr Ink 197:17-20 D 26 '41
Engineering News events of 1941; chronological summary. Eng N 128:82-3 Ja 15 '42
1941: a year of economic transitions. Oil Paint & Drug Rep 141:35-6+ Ja 12 '42

NIOBIUM. See Columbium

NITRAMIDE
Base catalyzed decomposition of nitramide in aqueous solution. L. K. J. Tong and A. R. Olson. bibliog Am Chem Soc J 63:3406-11 D '41

NITRATES
Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

See also
Nitration
Nitric acid
Nitrocellulose
Silver nitrate
Sodium nitrate

Analysis

Du Pont type semimicronitrometer. P. J. Elving and W. R. McElroy. bibliog il diags Ind & Eng Chem Anal ed 14:84-8 Ja 15 '42
Polarographic determination of nitrates in blood and urine. E. W. Scott and K. Bambach. Ind & Eng Chem Anal ed 14:136-7 F 15 '42

NITRATION
Determination of small amounts of benzene in the presence of cyclohexane and of toluene in the presence of methylcyclohexane. B. B. Corson and L. J. Brady. il Ind & Eng Chem Anal ed 14:531-3 Jl 15 '42
Enediols; an amino stilbenediol. R. C. Fuson and S. L. Scott. Am Chem Soc J 64:2152-3 S '42
Nitration of aliphatic hydrocarbons. G. Egloff, M. Alexander and P. M. Van Arsdell. bibliog Oil & Gas J 41:39-41+ O 15; 49+ O 22 '42
Nitration of benzene; continuous process, using nitric acid alone. D. F. Othmer, J. J. Jacobs, jr. and J. F. Levy. bibliog flow sheet diag Ind & Eng Chem 34:286-91 Mr '42
Nitration of certain halobiphenyls; nitro derivatives of 4-bromobiphenyl. F. H. Case. Am Chem Soc J 64:1848-52 Ag '42
Nitration of lepidine and 2-chlorolepidine. S. E. Krahler and A. Burger. bibliog Am Chem Soc J 64:2417-19 O '42
Nitration of methane. T. Boyd and H. B. Hass. bibliog diags Ind & Eng Chem 34:300-4 Mr '42
Nitration of 4-phenylphenyl benzoate. S. E. Hazlet and H. O. Van Orden. Am Chem Soc J 64:2505-6 O '42
Nitration of 9-*p*-toluenesulphonylcarbazole. B. K. Menon, E. V. Menon and D. H. Peacock. Chem Soc J p509-10 Ag '42
Nitrous acid as a nitrating and oxidising agent; reactions with the four 3-halogenodimethylanilines. H. H. Hodgson and D. E. Nicholson. Chem Soc J p766-70 N '41
Post-war industry in the making; nitroparaffins produced at Peoria, Ill. S. D. Kirkpatrick. il Chem & Met Eng 49:129-33 S '42
Production of patterned etching effects on rayon materials. E.P. 537,519. A. J. Hall. Textile Col 63:613 N '41

NITRATION—*Continued*

Syntheses in the quinoline series: the nitration of 2-chloro-4-methylquinoline and the preparation of some 2-hydroxy-4-methyl-8-(dialkylaminoalkyl)-aminoquinolines. O. H. Johnson and C. S. Hamilton. Am Chem Soc J 63:2867-9 N '41

System nitric acid-sulfuric acid-water; enthalpy-temperature nomograph. J. L. McCurdy and C. McKinley. Ind & Eng Chem 34:1002-4 Ag '42

Vapor phase nitration of toluene. J. L. Bullock and E. T. Mitchell. Am Chem Soc J 63:3230-1 N '41

NITRIC acid

Entropies of nitric acid and its mono- and tri-hydrates; their heat capacities from 15 to 300° K; the heats of dilution at 298.1° K; the internal rotation and free energy of nitric acid gas; the partial pressures over its aqueous solutions. W. R. Forsythe and W. F. Giauque. bibliog Am Chem Soc J 64:48-61 Ja '42

Hydration of isobutene in dilute nitric acid. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1938-40 Ag '42

Nitration of benzene; continuous process, using nitric acid alone. D. F. Othmer, J. J. Jacobs, jr. and J. F. Levy. bibliog flow sheet diag Ind & Eng Chem 34:286-91 Mr '42

Preparation of tetrahydroxyquinone and rhodizonic acid salts from the product of the oxidation of inositol with nitric acid. P. W. Preisler and L. Berger. bibliog Am Chem Soc J 64:67-9 Ja '42

Rice straw pulped with nitric acid; abstract. I. Schimoda and M. Kono. Paper Ind 24:652 S '42

Some observations on the oxidation and determination of the molecular weight of polynuclear aromatic compounds. W. P. Campbell, M. D. Soffer and T. R. Steadman. bibliog Am Chem Soc J 64:425-8 F '42

System nitric acid-sulfuric acid-water; enthalpy-temperature nomograph. J. L. McCurdy and C. McKinley. Ind & Eng Chem 34:1002-4 Ag '42

See also
Nitration

Manufacture

Compressed air for ammonia oxidation. D. G. Morrow. il Am Inst Chem Eng Trans 38:377-86 Ap '42

NITRIFICATION

Bearing of recent research on the inoculation of legume crops with nodule-forming bacteria; abstract. H. G. Thornton. Chem & Ind 61:82-4; Discussion. 84 F 14 '42

Mechanism of biological nitrogen fixation; carbon monoxide as an inhibitor for nitrogen fixation by red clover. C. J. Lind and P. W. Wilson. bibliog Am Chem Soc J 63:3511-14 D '41

NITRIFYING bacteria. See Bacteria, Nitrifying

NITRILES

Absorption spectra and the X-ray examination of the isomeric glucononitriles. P. E. Papadakis. bibliog Am Chem Soc J 64:1950-3 Ag '42

Alkyl carbonates in synthetic chemistry; condensation with nitriles; synthesis of α-cyano esters. V. H. Wallingford, D. M. Jones and A. H. Homeyer. bibliog Am Chem Soc J 64:576-8 Mr '42

Pyrolysis of ethyl and methyl cyanides; abstract. B. S. Rabinovich and C. A. Winkler. Chem & Met Eng 49:164 Ag '42

See also
Octadecanenitrile
Phthalonitrile

Analysis

Method for the identification of nitriles. H. B. Cutter and M. Taras. Ind & Eng Chem Anal ed 13:830 N 15 '41

NITRITES

See also
Sodium nitrite

Analysis

Determination of nitrites; discussion of the Shinn method as applied to examination of water. N. F. Kershaw and N. S. Chamberlin. bibliog Ind & Eng Chem Anal ed 14:312-13 Ap 15 '42

NITRO compounds

Aromatic amino and nitro compounds, their toxicity and potential dangers. W. F. Von Oettingen. (Pub. health bul. 271) 221p bibliog(p188-216) U.S. Public health service, Washington; pa 25c Supt. of doc. '41

Formation and structure of some organic molecular compounds. J. Weiss. Chem Soc J p245-52 Ap '42

Methylation of aromatic nitro compounds with lead tetraacetate. L. F. Fieser, R. C. Clapp and W. H. Daudt. bibliog Am Chem Soc J 64:2052-60 S '42

Nitration of certain halobiphenyls; nitro derivatives of 4-bromobiphenyl. F. H. Case. Am Chem Soc J 64:1848-52 Ag '42

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

1,1,1-Trichloro-2-hydroxy-3-nitroalkanes and their reduction products. S. Malkiel and J. P. Mason. Am Chem Soc J 64:2515 O '42

Utilization of aliphatic nitro compounds; nitroalcohols prepared from aldehydes containing no other functional groups. C. A. Sprang and E. F. Degering. bibliog Am Chem Soc J 64:1063-4 My '42

Utilization of aliphatic nitro compounds; nitrodiols (nitroglycols) prepared from simple aldehydes. C. A. Sprang and E. F. Degering. bibliog Am Chem Soc J 64:1735-6 Jl '42

NITROBENZENE

American institute of chemical engineers; student contest problem for 1942; plant for manufacture of aniline oil by the iron-hydrochloric acid reduction process; with prize winning paper by C. C. Neas. flow sheet bibliog Am Inst Chem Eng Trans 38:653-718 Ag '42

Aromatic amino and nitro compounds, their toxicity and potential dangers; a review of the literature. W. F. Von Oettingen. (Pub. health bul. 271) p76-108 U.S. Public health service, Washington; pa 25c Supt. of doc. '41

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

Direct diazotization of nitrobenzene. F. W. Bergstrom and J. S. Buehler. bibliog Am Chem Soc J 64:19-21 Ja '42

Mechanism of aromatizing diene reactions in nitrobenzene. F. Bergmann. Am Chem Soc J 64:176-7 Ja '42

NITROBENZOATES

Alkanolamines; monoalkylamino alcohols and their esters. C. B. Kremer and E. Waldman. Am Chem Soc J 64:1089-90 My '42

NITROBENZOTHIAZOLES

Researches on thiazoles; some interesting exchange reactions between 6-alkoxy-7-nitrobenzothiazoles and alcohols. H. H. Fox and M. T. Bogert. bibliog Am Chem Soc J 63:2996-9 N '41

NITROBENZYLPYRIDINIUM sulfonates

Identification of organic compounds; the preparation of *p*-nitrobenzylpyridinium salts of aromatic sulfonic acids. E. H. Huntress and G. L. Foote. bibliog Am Chem Soc J 64:1017-20 My '42

NITROCARBAZOLE

Graebe-Ullmann synthesis of carbazole derivatives; preparation and synthesis of 1-nitrocarbazole. R. W. G. Preston, S. H. Tucker and J. M. L. Cameron. Chem Soc J p500-4 Ag '42

NITROCELLULOSE

Action of light on cellulose; a method for the measurement of the osmotic pressure of colloidal solutions. R. E. Montonna and L. T. Jilk. bibliog diags J Phys Chem 45:1374-81 D '41

NITROCELLULOSE—*Continued*

All-American bounce; nitrocellulose table tennis ball. M. Peters. il Mod Plastics 19: 47+ D '41

Determination of the drying rates of thin films. G. Rieger and C. S. Grove, jr. bibliog il diags Ind & Eng Chem Anal ed 14: 326-33 Ap 15 '42

Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34:764-70 Je '42

Eyes have it; personality-styled frames from cellulose nitrate sheet stock. E. J. Young. il Mod Plastics 19:46+ Ja '42

See also

Cordite

Explosives

NITROETHANE

Metabolism of mononitroparaffins; recovery of nitroethane from the animal organism. W. Machle, E. W. Scott and J. Treon. J Ind Hygiene 24:5-9 Ja '42

Metabolism of mononitroparaffins; the metabolic products of nitroethane. E. W. Scott. bibliog J Ind Hygiene 24:226-8 O '42

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42

Reaction velocities at low temperatures; the ionisation of nitroethane at temperatures between -32° and +20°. R. P. Bell and A. D. Norris. Chem Soc J p854-6 D '41

NITROGEN

Adsorption of nitrogen and the mechanism of ammonia decomposition over iron catalysts. S. Brunauer, K. S. Love and R. G. Keenan. bibliog Am Chem Soc J 64:751-8 Ap '42

Divalent nitrogen; the action of nitric oxide on pentaphenylethane. H. Sonneborn, 3d, and F. Y. Wiselogle. bibliog Am Chem Soc J 64:860-8 Ap '42

Electrical strength of nitrogen and Freon under pressure. H. H. Skilling and W. C. Brenner. bibliog Elec Eng 61:Trans 191-5 Ap '42

Fertilizers and materials, 1941. Chem & Met Eng 49:87-8 F '42

Improved source for the Lyman continuum in the vacuum ultraviolet. R. E. Worley. bibliog il diag R Sci Instr 13:67-71 F '42

Ionization of gases by collisions of their own accelerated atoms and molecules. H. W. Berry, R. N. Varney and S. Newberry. diag Phys R 61:63-4 Ja 1 '42

Mobilities in nitrogen at high current densities. W. H. Bennett. diags Phys R 62:369-71 O 1 '42

Nature of reactions occurring in the production of the afterglow of active nitrogen and the effect of temperature on the phenomena. D. E. Debeau. bibliog Phys R 61:668-9 My 1 '42

Pure nitrogen natural gas well. H. J. Cook. Science 95:223-4 F 27 '42

Second virial coefficients of polar gas mixtures. W. H. Stockmayer. bibliog J Chem Phys 9:863-70 D '41

Studies on overvoltage; decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. A. L. Ferguson and M. B. Towns. diags Electrochem Soc Trans 82 (preprint 25): 285-99 O '42

Sulfur in organic compounds containing nitrogen and halogen; acidimetric microdetermination. E. L. Brewster and W. Rieman, 3d. bibliog diag Ind & Eng Chem Anal ed 14:820-1 O 15 '42

Surface available to nitrogen on bone black and other carbonaceous adsorbents. V. R. Deitz and L. F. Gleysteen. diags J Research Nat Bur Stand 29:191-225 S '42

Thermodynamic properties of nitrogen at high pressures as analytic functions of temperature and pressure. S. H. Maron and D. Turnbull. Am Chem Soc J 64:44-7 Ja '42

Analysis

Determination of combined nitrogen in steel; a rapid method. H. F. Beeghly. bibliog il diag Ind & Eng Chem Anal ed 14:137-40 F 15 '42

Determination of nitrogen in rubber; abstract. E. H. Farmer, G. R. Tristram and J. L. Boland. Can Chem & Process Ind 26:182+ Mr '42

Kjeldahl distillation without absorbing acid. J. A. Bradley. bibliog Ind & Eng Chem Anal ed 14:705-6 S 15 '42

Mercury azotometer for determination of organic nitrogen by the micro-Dumas method. R. G. Clarke and W. R. Winans. bibliog diag Ind & Eng Chem Anal ed 14:522-3 Je 15 '42

Microgasometric determination of nitrogen in blood and saliva. P. F. Scholander. diags R Sci Instr 13:362-4 Ag '42

Micro-Kjeldahl determination of nitrogen; new indicator and an improved rapid method. T. S. Ma and G. Zuazaga. bibliog diags Ind & Eng Chem Anal ed 14:281-2 Mr 15 '42

Micro-Kjeldahl nitrogen determination without use of titration procedure. W. H. Taylor and G. F. Smith. Ind & Eng Chem Anal ed 14:437-9 My 15 '42

Modifications in the Dumas micromethod for nitrogen; automatic apparatus applicable for combustion micromethods. G. L. Royer, A. R. Norton and F. J. Foster. bibliog il Ind & Eng Chem Anal ed 14:79-82 Ja 15 '42

Perchloric acid in micro-Kjeldahl digestions. L. F. Wicks and H. I. Firminger. bibliog Ind & Eng Chem Anal ed 14:760-2 S 15 '42

See also

Nitrometers

Industrial applications

Detroit pioneers with 120-kv. pipe-type gas-filled cable. G. B. McCabe and F. M. Hull. il Elec W 117:2214-16; 118:278-80 Je 27, Jl 25 '42

Nitrogen locates leaks in underground. il Elec W 118:1311 O 17 '42

Isotopes

Mass differences of the fundamental doublets used in the determination of the isotopic weights C^{12} and N^{14}. E. B. Jordan. diags Phys R 60:710-13 N 15 '41

Statistics

Commercial nitrogen consumption, 1910, 1925, 1937, 1939, 1941; tabulation. Oil Paint & Drug Rep 142:75 O 26 '42

NITROGEN, Liquid

Transformation of retained austenite in high speed steel at subatmospheric temperatures; treatment in liquid nitrogen. P. Gordon and M. Cohen. bibliog Am Soc for Metals Trans 30:569-88; Discussion. 588-91 S '42

NITROGEN compounds

Crotonic acid series; nitrogen derivatives of α-phenylcrotonic acid. M. A. Phillips. Chem Soc J p220-3 Ap '42

Dipole moment and resonance in heterocyclic molecules containing nitrogen and sulfur. P. F. Oesper, G. L. Lewis and C. P. Smyth. bibliog Am Chem Soc J 64:1130-3 My '42

Nitrogen compounds in petroleum distillates; the structure of a $C_{16}H_{25}N$ base from California petroleum. B. Shive and others. bibliog Am Chem Soc J 64:909-12 Ap '42

Organoboron-nitrogen compounds; the reaction of boron chloride with *p*-toluidene. C. R. Kinney and M. J. Kolbezen. Am Chem Soc J 64:1584-5 Jl '42

Outline of organic nitrogen compounds. E. F. Degering, C. Bordenca and B. H. Gwynn. 381p $6 Purdue univ. Dept. of chemistry, Lafayette, Ind. '42

See also

Amino compounds

Ammonia

Azo compounds

Cyanines

Nitrates

Nitro compounds

Analysis

Color reactions of organic nitrogen compounds with selenious acid-sulfuric acid solution. B. T. Dewey and A. H. Gelman. bibliog Ind & Eng Chem Anal ed 14:361-2 Ap 15 '42

NITROGEN compounds—Analysis—*Continued*

Microtechnique of organic qualitative analysis; identification of compounds containing nitrogen. C. R. García and F. Schneider. bibliog diags Ind & Eng Chem Anal ed 14:94-7 Ja 15 '42

NITROGEN dioxide. See Nitrogen oxides

NITROGEN fixation

Nitrogen fixation. H. A. Curtis. J Chem Educ 19:161-5 Ap '42

NITROGEN fixation, Biological. See Nitrification

NITROGEN oxides

Divalent nitrogen; the action of nitric oxide on pentaphenylethane. H. Sonneborn, 3d, and F. Y. Wiselogle. bibliog Am Chem Soc J 64:860-8 Ap '42

Electric gas treater for removal of nitric oxide from fuel gas; Boston consolidated gas company. E. V. Harlow. il Am Gas Assn Mo 24:114-15 Mr '42

Further studies on the oxidation of nitric oxide; the rate of the reaction between carbon monoxide and nitrogen dioxide. F. B. Brown and R. H. Crist. bibliog diags J Chem Phys 9:840-6 D '41

Investigation of the properties of cellulose oxidized by nitrogen dioxide. C. C. Unruh and W. O. Kenyon. bibliog il Am Chem Soc J 64:127-31 Ja '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; nitrogen dioxide process for recovery of manganese from ores. R. S. Dean, A. L. Fox and A. E. Beck. flow sheet U S Bur Mines Rep of Invest 3626:1-30 '42

Microanalysis of gases: nitric oxide-hydrogen, nitric oxide-nitrogen, and nitrous oxide-ammonia mixtures. R. N. Smith and P. A. Leighton. diags Ind & Eng Chem Anal ed 14:758-9 S 15 '42

Nitric oxide fumes; treatment after their inhalation. W. D. McNally. Ind Med 11:207-8 My '42

Oxidation of cellulose by nitrogen dioxide. E. C. Yackel and W. O. Kenyon. bibliog diags Am Chem Soc J 64:121-7 Ja '42

Simplified photometer for determining nitrogen dioxide concentrations. L. Harris and B. M. Siegel. bibliog diags Ind & Eng Chem Anal ed 14:258-60 Mr 15 '42

Speed of oxidation of nitric oxide in mixtures of oxygen and nitrogen. F. H. Peakin. Soc Chem Ind J 60:253-4 O '41

Structures of nitrous oxide and of hydrogen azide. V. Schomaker and R. Spurr. bibliog Am Chem Soc J 64:1184-7 My '42

Study of gas fading of acetate rayon dyes. F. P. Greenspan and P. E. Spoerri. bibliog diags Am Dyestuff Rep 30:645-50, 664-5 N 24 '41

Physiological effect

Toxicity and potential dangers of nitrous fumes. W. F. von Oettingen. (Pub. health bul. 272) 34p bibliog(p30-4) U.S. Public health service, Washington; pa 10c Supt. of doc. '41; Review. Pub Health Rep 56:2219-20 N 14 '41

NITROGLYCERIN

Complete detonation in well shooting. F. R. Cozzens. diag Pet Eng 13:54 Ap '42

Safety sermonettes; explosives and blasting; physiological effects of nitroglycerin. W. B. Paton. Can Min J 63:587-8 S '42

See also
Cordite

NITROISOQUINOLINE

Deamination of 5-amino-8-nitroisoquinoline. B. Keilin and W. E. Cass. bibliog Am Chem Soc J 64:2442-4 O '42

NITROLEPIDINE

Syntheses in the quinoline series; some derivatives of 4-methylquinoline and a study of their structures. O. H. Johnson and C. S. Hamilton. bibliog Am Chem Soc J 63:2864-7 N '41

NITROMESITYLENE

Raman spectra evidence for hindrance of resonance by ortho substitution. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 63:3121-3 N '41

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

NITROMETERS

Du Pont type semimicronitrometer. P. J. Elving and W. R. McElroy. bibliog il diags Ind & Eng Chem Anal ed 14:84-8 Ja 15 '42

NITROMETHANE

Heat capacity of organic vapors; nitromethane. T. De Vries and B. T. Collins. Am Chem Soc J 64:1224-5 My '42

Nitration of methane. T. Boyd and H. B. Hass. bibliog diags Ind & Eng Chem 34:300-4 Mr '42

Nitromethane-isopropyl alcohol-water system; vapor-liquid equilibria in the ternary system and in the three related binary systems. J. E. Schumacher and H. Hunt. bibliog Ind & Eng Chem 34:701-4 Je '42

Nitromethane; the heat capacity of the gas, the vapor density, and the barrier to internal rotation. K. S. Pitzer and W. D. Gwinn. bibliog Am Chem Soc J 63:3313-16 D '41

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42

Utilization of aliphatic nitro compounds; nitrodiols (nitroglycols) prepared from simple aldehydes. C. A. Sprang and E. F. Degering. bibliog Am Chem Soc J 64:1735-6 Jl '42

NITRONAPHTHALENE

Exchange reactions of 4-nitro-1-naphthyl methyl ether and 4-nitro-1-naphthyl ethyl ether with sodium ethoxide and methoxide respectively, and the reduction of certain 1-nitronaphthalene derivatives. H. H. Hodgson and J. Habeshaw. Chem Soc J p45-7 Ja '42

NITROPARAFFINS

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:40 O 1 '42

How the coating industry is using the nitroparaffins. C. Bogin. Paint Oil & Chem R 104:9-11+ Ag 27; 9-11, 26-8 S 10; 9-10, 24-9 S 24; 8-10, 25-9 O 8 '42

Nitration of aliphatic hydrocarbons. G. Egloff, M. Alexander and P. M. Van Arsdell. bibliog Oil & Gas J 41:39-41+ O 15 '42

Nitroparaffin derivatives in the compounding of rubber; use as heat sensitizer for latex and anti-gelling agent for rubber cements. Rubber Age 52:35-6 O '42

Nitroparaffins and derivatives as heat sensitizers for rubber latices. A. W. Campbell. bibliog il Ind & Eng Chem 34:1106-7 S '42

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42; Same cond. Chem Age (Lond) 47:377-80 O 31 '42

Nitroparaffins as solvents in the coating industry; abstract. H. L. Wampner and C. Bogin. Paint Oil & Chem R 104:10 My 7 '42; Same. Chem Ind 50:640 My '42; Same. Chem & Met Eng 49:156 Jl '42

Nitroparaffins in the rubber industry. A. W. Campbell and J. W. Burns. India Rubber W 107:169-70 N '42

Manufacture

Post-war industry in the making; nitroparaffins produced at Peoria, Ill. S. D. Kirkpatrick. il Chem & Met Eng 49:129-33 S '42

Physiological effect

Metabolism of mononitroparaffins; recovery of nitroethane from the animal organism. W. Machle, E. W. Scott and J. Treon. J Ind Hygiene 24:5-9 Ja '42

Metabolism of mononitroparaffins; the metabolic products of nitroethane. E. W. Scott. bibliog J Ind Hygiene 24:226-8 O '42

NITROPROPANE

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42

NITROSALICYLALDEHYDE

Preparation of 4-nitrosalicylaldehyde. J. R. Segesser and M. Calvin. Am Chem Soc J 64:825 Ap '42

NITROSATION
Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42

NITROSOPHENOLS
Determination of divalent iron. G. Cronheim and W. Wink. Ind & Eng Chem Anal ed 14: 447-8 My 15 '42
Orthonitrosophenol as a new reagent in colorimetric analysis; determination of cobalt. G. Cronheim. bibliog Ind & Eng Chem Anal ed 14:445-7 My 15 '42

NITROSOPHENYLAMINO group
Colorimetric detection and determination of palladium with compounds containing the *p*-nitrosophenylamino group. L. G. Overholser and J. H. Yoe. Am Chem Soc J 63: 3224-9 N '41

NITROTETRONIC acid
Dissociation constant, dipole moment and structure of α-nitrotetronic acid. W. D. Kumler. Am Chem Soc J 64:1948-50 Ag '42

NITROTHIOPHENE
Dipole moment and resonance in heterocyclic molecules containing nitrogen and sulfur. P. F. Oesper, G. L. Lewis and C. P. Smyth. bibliog Am Chem Soc J 64:1130-3 My '42

NITROUS acid
Nitrous acid as a nitrating and oxidising agent; reactions with the four 3-halogenodimethylanilines. H. H. Hodgson and D. E. Nicholson. Chem Soc J p766-70 N '41
Studies in the diazotisation and nitrosation of amines; the effect of lowering the dielectric constant of the reaction mixture. J. C. Earl and N. G. Hills. Chem Soc J p275-7 Ap '42

NITROUS oxide. See Nitrogen oxides

NITROVINYLNAPHTHALENE
Nitrovinylnaphthalene. D. E. Worrall and A. Tatilbaum. Am Chem Soc J 64:1739-40 Jl '42

NOBEL prizes
Nobel prize winners: charts, indexes, sketches. F. Kaplan, comp. 2d rev ed 144p $2.50 Nobelle pub. co, 6140 Cottage Grove av. Chicago '41

NOBLE, Alden Charles, 1880-1942
Sketch. por East Underw 43:20 Je 19 '42

NOBLE, Alfred, 1844-1914
Portrait. Civil Eng 12:115 F '42

NOCTOVISOR. See Television apparatus

NOISE
Acoustical society and noise abatement. P. E. Sabine. bibliog Acoustical Soc Am J 13: 207-10 Ja '42
American standard for noise measurement. Acoustical Soc Am J 14:102-10 Jl '42
Better concentration reduces employee turnover 47%; adjustment of noise factor increased general efficiency 8.8%. A. Wilson. Bankers Mo 59:254-5 Je '42
City noise. S. W. Wynne. Acoustical Soc Am J 13:214-16 Ja '42; Abstract. J Ap Phys 13:305-6 My '42
Defense against noise. V. O. Knudsen. il Nat Safety N 45:28-9 F '42
Experiments with the noise analysis method of loudspeaker measurement. B. Olney. diags Acoustical Soc Am J 14:79-83 Jl '42
Fiber plug curbs blast noise. F. R. Cozzens. diag Eng N 128:933-4 Je 4 '42
Industrial noises and industrial deafness. J Ap Phys 13:304-5 My '42
Industrial noises and industrial deafness. W. A. Rosenblith. bibliog Acoustical Soc Am J 13:220-5 Ja '42
Noise and its suppression; abstract and discussion. N. Fleming. Chem & Ind 61:143-4 Mr 21 '42
Noise and wear reducing phonograph reproducer with controlled response. F. H. Goldsmith. diags Acoustical Soc Am J 13:281-3 Ja '42
Noise; ear plugs protect industrial workers. Sci Am 166:75 F '42
Noise levels, how to figure them. W. Goodman. il Heating-Piping 13:737-9 D '41
Objective noise-meter reading in phons for sustained noises, with special reference to engineering plant. A. J. King and others. bibliog Inst E E J 88 pt 2:163-76 Je '41; Discussion. Inst E E J 88 pt 2:176-82, 610-12 Je, D '41
Practical acoustics and planning against noise. H. Bagenal. 140p $2.50 Chemical pub. co. '42
Selecting speakers for specified sound levels. R. P. Glover. diag plan Radio N 27:24-5+ Ap '42
Vocational acoustics. R. L. Leadbetter. il W Soc E J 47:59-69 Ap '42
What can the hospital do about noise? C. F. Neergaard. Acoustical Soc Am J 13:217-19 Ja '42

See also
Air conditioning equipment—Noise
Electric transformers—Noise
Moving picture sound recording—Noise reduction
Radio communication—Interference
Radio receiving apparatus—Noise
Soundproofing

Bibliography

Bibliography on noise. P. E. Sabine. Acoustical Soc Am J 13:210 Ja '42

NOISE abatement council, National. See National noise abatement council

NOISE meters. See Noise; Sound—Measurement

NOLLEN, Henry Scholte, 1866-1942
Sketch. por East Underw 43:3-4 My 1 '42; por Nat Underw (Life ed) 46:2 My 1 '42; Spectator (Life ed) 148:22 My 7 '42

NOMOGRAPHY
Boiling point nomograph for *n*-alkyl primary amines. D. S. Davis. Ind & Eng Chem 34: 1414 N '42
Calcium chloride nomographs. D. S. Davis. Ind & Eng Chem 34:1393-4 N '42
Core waste nomograph. D. S. Davis. Paper Ind 24:373 Jl '42
Molal volume nomographs for aliphatic hydrocarbons. D. S. Davis. Ind & Eng Chem 34:351 Mr '42
Molecular refraction, critical temperature nomograph. D. S. Davis. Ind & Eng Chem 34:689 Je '42
Nomogram computes parallel circuits. B. E. Ellsworth. Elec W 116:1754 N 29 '41
Nomograms for determination of apparent dips. S. H. Shaw. Can Min J 62:825-6 D '41
Nomograph for computing elevations of stilling basin aprons. C. Freeman. Civil Eng 12:157-8 Mr '42
Nomograph for flow from partially filled pipes. D. S. Davis. Ind & Eng Chem 34:52 Ja '42
Nomograph for the angles of liquid lenses. D. S. Davis. Ind & Eng Chem 34:442-3 Ap '42
Nomograph for the solubility of chlorine monoxide in water. D. S. Davis. Ind & Eng Chem 34:624 My '42
Nomographic charts for vapor pressure; useful in high-voltage testing of gaps, bushings, insulators, and coupling capacitors. K. D. Beardsley. Gen Elec R 45:281-3 My '42
Nomographs for mean driving forces in diffusional problems. E. G. Scheibel and D. F. Othmer. il Ind & Eng Chem 34:1200-8 O '42
Nomographs for minimum reflux ratio and theoretical plates for separation of binary mixtures. E. H. Smoker. Ind & Eng Chem 34:509-10 Ap '42
Practical switch nomograph. Eng & Min J 142:66 N '41
Surface tension-viscosity nomograph for organic liquids. D. S. Davis. Ind & Eng Chem 34:1231 O '42
System nitric acid-sulfuric acid-water; enthalpy-temperature nomograph. J. L. McCurdy and C. McKinley. Ind & Eng Chem 34:1002-4 Ag '42
Tolerances and allowances; nomographic determination; reference book sheet. Product Eng 13:305-6 My '42
Vapor pressure nomographs for aqueous sodium hydroxide solutions. D. S. Davis. Ind & Eng Chem 34:1131-2 S '42

NOMOGRAPHY—*Continued*

Viscosity nomographs for organic liquids. D. S. Davis. Ind & Eng Chem 33:1537-9 D '41

Bibliography

Bibliography of nomographs dealing with acids and alkalies. R. Myllynen and D. S. Davis, comps. Chem & Eng N 20:56 Ja 10 '42

Bibliography of nomographs dealing with flow of fluids. R. Myllynen and D. S. Davis, comps. News Ed 19:1370-2 N 25 '41

Bibliography of nomographs of pulp and paper application. R. Myllynen and D. S. Davis. Paper Ind 23:1089+ F '42

Bibliography of nomographs on contents of pipes and tanks. R. Myllynen and D. S. Davis, comps. News Ed 19:1463 D 25 '41

Bibliography of nomographs on humidity and drying; evaporation, absorption, and distillation. R. Myllynen and D. S. Davis, comps. News Ed 19:1423 D 10 '41

Bibliography of nomographs on vapor pressure; on fuels and on water. R. Myllynen and D. S. Davis, comps. News Ed 19:1490+ D 25 '41

NONALDEHYDE. See Pelargonaldehyde

NON-CONDUCTORS. See Insulation (electric)

NON-FERROUS metals. See Metals, Non-ferrous

NON-FORFEITURE benefits. See Insurance, Life—Policies—Non-forfeiture benefits

NORANDA mines, ltd.

Growth stocks and the investor. E. N. Chapman. Barron's 22:38-9 Ja 12 '42

NORFOLK, Virginia

What's a war boom like? Hampton Roads area where navy comes up like thunder. il Business Week p22+ Je 6 '42

See also

Housing—Norfolk, Virginia

Rapid transit

Navy and transit company attack Norfolk problem. H. F. Hammond. Transit J 86:272-4 Ag '42

Water supply

Strategy and tactics on a wartime waterworks project. E. J. Cleary. il Eng N 129:474-8 O 8 '42

NORFOLK and western railway

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:20-1 O 17 '42

Large additions to yards which progress the war effort; Norfolk & Western at Portsmouth, Ohio. il plan Ry Age 113:230-3 Ag 8 '42

Norfolk & Western is ready; operating efficiency and planning. il Ry Age 111:941-5 D 6 '41

Operating statistics and income statement, 1938-41. Comm & Fin Chr 155:1682 Ap 27 '42

Summary of annual report for 1941. Comm & Fin Chr 155:1437 Ap 9 '42; Same. Ry Age 112:767-8 Ap 11 '42

NORFOLK southern railway

Listing of bonds. Comm & Fin Chr 155:1681-2 Ap 27 '42

Norfolk Southern emerges from receivership. map Ry Age 112:341-3 F 7 '42

Unusual speculation. Mag of Wall St 71:35 O 17 '42

NORMAN, Montagu Collet, 1871-

Montagu Norman. J. Hargrave. 239p $2.75 Greystone press, New York '42

NORMAND family

Normands of Havre. E. C. Smith. Engineering 153:104-6 F 6 '42; Same abr. Engineer 173:73-5 Ja 23 '42

NORMANDIE fire. See Ships—Fires and fire protection

NORMORPHINE

N-allylnormorphine. J. Weijlard and A. E. Erickson. bibliog Am Chem Soc J 64:869-70 Ap '42

NORTH, Cecil J.

Metropolitan's second vice-president in charge of agency force. C. Axman. por East Underw 43:3+ My 29 '42

NORTH, David Alden, 1903-

N.A.I.A.'s new president. por Ins Field (Chicago Conv Daily ed) 71:2 S 24 '42

Sketch. S. Welton. por East Underw 42:24+ N 14 '41

NORTH AMERICA

Economic conditions

North America; wheel of the future. H. Daniel. 300p $2.75 Scribner '42

NORTH AMERICAN aviation, inc.

Annual report. Comm & Fin Chr 155:506 Ja 31 '42

Telling the boss; report by NLRB examiner. Business Week p60+ Je 6 '42

NORTH AMERICAN company

Annual report. Comm & Fin Chr 155:1682-3 Ap 27 '42

Answers North American appeal on integration; SEC denies holding company has right to retain Cleveland and Milwaukee properties. Elec W News ed 118:1521 N 7 '42

Common dividend payable in Detroit Edison co. stock. Comm & Fin Chr 155:2010-11 My 25 '42

Common dividend payable in Detroit Edison company stock. Comm & Fin Chr 156:610 Ag 17 '42

Dividend payable in Detroit Edison co. stock, debentures to be redeemed. Comm & Fin Chr 154:1267 N 29 '41

Must give up all but one system; SEC order allows holding firm year to dispose of interests in 56 units. Comm & Fin Chr 155:1603 Ap 20 '42

Plans distribution of holdings of common stock of Union electric co. of Missouri; proceeds to retire debentures. Comm & Fin Chr 155:364 Ja 24 '42

SEC asked to study setup. Comm & Fin Chr 156:1154 S 28 '42

SEC denies company's plea for rehearsing in death sentence edict. Comm & Fin Chr 156:83 Jl 6 '42

SEC integration of holding company systems. R. Blum. J Land & Pub Util Econ 17:423-39 N '41

SEC presses cut in utility system, court asked to assent to order for divesture by company. Comm & Fin Chr 156:1507 O 26 '42

To call $3,000,000 debentures. Comm & Fin Chr 155:1017 Mr 9 '42

NORTH AMERICAN light and power company

Ordered dissolved by SEC. Comm & Fin Chr 155:90 Ja 6 '42

SEC approves plan. Comm & Fin Chr 156:257 Jl 20 '42

SEC issues report recommending death sentence proceedings. Comm & Fin Chr 154:1381-2 D 6 '41

To liquidate subsidiary; proposes retirement of debentures as step in liquidation. Comm & Fin Chr 155:1924 My 18 '42

NORTH Boston lighting properties

SEC allows company to borrow $13,000,000. Comm & Fin Chr 156:962 S 14 '42

NORTH CAROLINA

See also

Workmen's compensation—North Carolina

NORTH CAROLINA academy of science

Annual meeting, 41st. Science 95:605-6 Je 12 '42

NORTH CAROLINA state college

North Carolina state college textile school. il Textile Col 64:345-6 Jl '42

NORTH DAKOTA

Our state, North Dakota. C. W. Leifur. 621p $1.68 Am. book co. '42

NORTH Shore gas company

Plan permitted to become effective. Comm & Fin Chr 154:1267-8 N 29 '41

Securities offered. Comm & Fin Chr 154:1599, 1729-30 D 20, 30 '41

NORTHEASTERN university, Boston
Groomed for industry; abstract. W. E. Nightingale. Management R 30:447-8 D '41

NORTHEASTERN water and electric corporation
Sale allowed. Comm & Fin Chr 155:1315 Mr 30 '42

$600,000 reduction made in price of stock. Comm & Fin Chr 156:1420 O 19 '42

NORTHERN Indiana public service company
Second supplemental order by SEC. Comm & Fin Chr 155:402 Ja 27 '42

SEC issues supplement findings and opinion. Comm & Fin Chr 155:159 Ja 10 '42

NORTHERN insurance company of New York
Company analysis. Spectator (Property ed) 7:30-1 Ja 22 '42

NORTHERN natural gas company
Brief description. O. Ely. Pub Util 29:434-6 Mr 26 '42

NORTHERN Pacific railway
Dividend possibilities for Northern Pacific. A. Jansen. map Barron's 22:18 S 14 '42

NORTHERN railroad of New Jersey
Opposes plan in Erie railroad's bankruptcy proceedings. Comm & Fin Chr 156:962 S 14 '42

NORTHERN states power company of Delaware
Liquidating value. T. W. Hyde, jr. Barron's 22:5 S 14 '42

NORTHWEST
And there were men. R. Blankenship. 301p $3 Knopf '42

Economic atlas of the Pacific Northwest. 16p pa 75c Northwest regional council, 606 Bedell bldg, Portland, Ore. '41

Pacific Northwest. O. W. Freeman and H. H. Martin. 542p $4 Wiley '42

See also Labor and laboring classes—Northwestern states

NORTHWEST airlines, inc.
Fastest growing air transport company. S. Altschul. map Barron's 22:8 Mr 30 '42

NORTHWEST electric light and power association
Annual meeting, 19th. Elec W 117:1517 My 2 '42

Committee reports. il diag Elec West 88:79-107 Je '42

NORTHWEST TERRITORIES, Canada
Canada moves north. R. Finnie. 227p bibliog(p215-16) $3.50 Macmillan '42

NORTHWESTERN mutual life insurance company
History and management of one of the Nation's great mutual life companies. W. E. Roesch. il Spectator (Life ed) 149:30-3 N; 26-9, 70-1 D '42

$100,000,000 in new business in December; convention of eastern agencies. Nat Underw (Life ed) 46:1+ Ja 9 '42; East Underw 43:3, 12+ Ja 9 '42

NORTHWESTERN national insurance company
Majority and minority opinions in Northwestern National case. East Underw 43:22 Ag 14 '42; Nat Underw 46:2 Ag 13 '42

N.Y. department's commission power is held limited. Nat Underw 46:2 Ag 6 '42; East Underw 43:14 Jl 31 '42

NORTHWESTERN national life insurance company
1941 report. Comm & Fin Chr 155:90-1 Ja 6 '42

NORTHWESTERN university

Institute of technology

Dedication of the Technological institute. Science 95:523-4, 619-20 My 22, Je 19 '42

Northwestern Tech has new foundry. E. F. Ross. il plan Foundry 70:106, 108 Ag '42

Northwestern technological institute dedicated with elaborate ceremonies. il Eng N 128:968 Je 18 '42; Mech Eng 64:574 Jl '42

Northwestern university opens its Technological institute; will feature cooperative engineering courses to promote industry and transportation. Ry Age 112:1216+ Je 20 '42

Technological institute of Northwestern university; structural data, plans, views. D. M. Nelson. Arch Rec 92:37-44 Ag '42

NORTON, Thomas Herbert, 1851-1941
Sketch. Oil Paint & Drug Rep 140:4 D 8 '41

NORWAY

See also
Shoe industry and trade—Norway
World war, 1939— Norway

German occupation

Exploitation of Norway. Economist 143:417-18 O 3 '42

Norwegian members of the Royal society of Göteborg; illegally imprisoned. H. Petterston. Science 95:456 My 1 '42

Trouble in the North. Economist 142:498 Ap 11 '42

NOTCHED bar testing
Charpy tests on austempered 4140 steel. J. B. Newkirk. Metal Prog 41:90 Ja '42

Effects of notching on strained metals. G. Sachs and J. Lubahn. bibliog diags Iron Age 150:31-8 O 8; 48-52 O 15 '42

Grain size vs. notched-bar test. R. J. Brown; S. J. Rosenberg. il Metal Prog 41:685-7 My '42

Improving the notched bar test. M. A. Scheil. Metal Prog 42:233-4 Ag '42

Notch sensitivity of welds under repeated loading. H. L. Daasch. bibliog il diags Welding J 21:sup60-4 Ja '42

NOTES receivable. See Promissory notes

NOVA SCOTIA

See also
Mines and mineral resources—Nova Scotia

NOYES, William Albert, 1857-1941
Sketch. A. M. Patterson. Science 94:477-9 N 21 '41

NOYONS diaferometer
Modified Noyons thermic diaferometer for respiratory gas analysis. T. M. Carpenter and V. S. Coropatchinsky. il diags Ind & Eng Chem Anal ed 14:159-63 F 15 '42

NOZZLES
Abrasion-resisting ceramic used in air-blast nozzles; Heanium. Mach 48:158 My '42

Brazing restores reaction nozzles. il Elec W 117:2258 Je 27 '42

Cooling nozzles serve Diesel plant bearings. il Elec W 117:836 Mr 7 '42

Design of spray cooling ponds. S. Hori, U. A. Patchett and L. M. K. Boelter. il diags Heating-Piping 14:624-6 O '42

Divergent nozzle tips for economical oxygen cutting. J. J. Crowe, G. M. Deming and J. K. Hamilton. il diags Welding J 21: sup34-43 Ja '42

Drilled nozzles replace inserts in soot blower. diag Elec W 118:632 Ag 22 '42

Effect of nozzle and bucket deposits on turbine capacity and efficiency. B. O. Buckland. il diag Gen Elec R 45:123-9 F '42; Excerpts. Power Pl Eng 46:78-80 Ap '42

Ex-Cell-O's new fuel injection nozzle; abstracts. C. R. Alden and R. K. Weldy. diags Automotive & Aviation Ind 86:34-5 F 1 '42; Automobile Eng 32:225-6 Je '42

Fire-fighting fog nozzles. il Mod Plastics 19: 44 Jl '42

Fundamental principles of the steam ejector. R. Royds and E. Johnson. diags Inst Mech Eng J & Proc 145:Proc 193-209 O '41; Discussion. 146:Proc 223-35 Mr '42

Strange case of the leaky nozzle flanges. J. Gorrie. diags Power 86:45 Ja '42

Turbine shell pressures, capacity and efficiency; effect of nozzle and bucket deposits. B. O. Buckland. il Power Pl Eng 46: 52-6 S '42

NUCLEAR spin
Forbidden transitions in β-decay and orbital electron capture and spins of nuclei. R. E. Marshak. bibliog Phys R 61:431-49 Ap 1 '42

NUCLEAR spin—*Continued*

Nuclear spin and magnetic moment of K^{40}. J. R. Zacharias. bibliog diag Phys R 61:270-6 Mr 1 '42

Radiofrequency spectrum of indium; nuclear spin of In^{113}. T. C. Hardy and S. Millman. bibliog Phys R 61:459-65 Ap 1 '42

NUCLEIC acids

Relation between nucleic acid and growth. A. M. Brues, M. M. Tracy and W. E. Cohn. bibliog Science 95:558-60 My 29 '42

NUCLEOSIDES

Constitution of purine nucleosides; a new synthesis of xanthine and attempted syntheses of xanthine glucosides from glyoxalines. W. E. Allsebrook, J. M. Gulland and L. F. Story. Chem Soc J p232-6 Ap '42

NUCLEUS, Atomic. See Atoms

NUFFIELD, William Richard Morris, 1st viscount, 1877-

Endowment of an institute of social medicine at Oxford. Science 96:128-9, 159 Ag 7-14 '42

NUGENT plan

New Nugent plan. Business Week p61 N 7 '42

Nugent reverse credit plan. Bankers M 145:261 S '42

Nugent's panacea; instalment selling in reverse. Business Week p67-8 Jl 18 '42

NUISANCES

See also

Air pollution

Noise

Public health

Smoke prevention

Trade waste

NUJOL

Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42; Excerpts. India Rubber W 106:251 Je '42

NUMBERS, Complex

Engineering mathematics; theory of complex numbers. R. Feinberg. diags Electrician 128:558-9 Je 5 '42

NURSES and nursing

American Red cross textbook on Red cross home nursing. L. L. Trott. 431p bibliog (p409-15) $1.10; pa 60c Blakiston '42

Arrested tuberculosis and hospital employment. L. Brahdy. bibliog J Ind Hygiene 24:53-8 Mr '42

Art and science of nursing. E. L. Rothweiler and J. M. White. 2d ed 929p $3 Davis '41

Communicable disease nursing. T. I. Lynch. 678p $3.75 C. V. Mosby co, St Louis '42

Do you want to be a nurse? D. Sutherland. 186p bibliog(p177-9) $2 Doubleday '42

Essentials of nursing. H. Young and others 609p bibliog(p527-38) $3 Putnam '42

Everyday nursing for the everyday home. E. E. Norlin and B. M. Donaldson. 306p bibliog(p289-90) $2.50 Macmillan '42

Home nursing. D. Deming. 63p bibliog(p63) pa 44c Little '42

Lamps on the prairie; a history of nursing in Kansas. 292p $3 Cora A. Miller, History of nursing committee, 817 State st, Emporia, Kan. '42

Manual of nursing procedures, University of Minnesota. M. L. Vannier and B. A. Thompson. 4th ed rev 347p $2.50 Burgess pub. co, Minneapolis '41

Medical nursing. E. Hull, C. Wright and A. B. Eyl. 2d ed 650p $3.50 Davis '41

Nursing, an art and a science. M. A. Tracy and others. 2d ed 754p $3.50 C. V. Mosby co, St Louis '42

Nursing care of communicable diseases; prophylactic technics for the prevention and control of disease. M. E. Pillsbury. 6th ed rev 604p bibliog(p543, p560-74) $3 Lippincott '42

Nursing in diseases of the eye, ear, nose and throat. D. H. Webster and others. 7th ed 313p $2.50 Saunders '42

Nursing of children. G. Sellew. 5th ed rev 579p $2.75 Saunders '42

Nursing procedures, the Children's hospital, School of nursing. 126p $1.55 Children's hospital, School of nursing, 300 Longwood av, Boston '41

Posture and nursing. J. L. Stevenson. 63p bibliog(p53) Joint orthopedic nursing advisory service, 1790 Broadway, New York '42

Practical book of home nursing. M. W. Wheeler. 255p bibliog(p243-6) 69c New home lib, 14 W. 49th st, New York '42

Professional adjustments in nursing; for senior students and graduates. E. K. Spalding. 2d ed rev 560p $3 Lippincott '41

Psychiatric nursing. K. M. Steele. new ed 390p $3.50 Davis '41

Reference handbook for nurses. A. K. Beck and L. M. Olson. 9th ed 347p $1.60 Saunders '41

Simplified nursing. F. Dakin and E. M. Thompson. 4th ed 444p bibliog(p415-17) $2.50 Lippincott '41

Surgical nursing. R. K. Felter and F. West. 3d ed 545p $3.50 Davis '42

Textbook of attendant nursing. K. Shepard and C. H. Lawrence. 2d ed 419p $3 Macmillan '42

Textbook of surgical nursing. W. F. MacFee and M. W. Keller. 4th ed 559p $3.50 Macmillan '42

Tuberculosis among nurses; study of effect of tuberculosis service on incidence of tuberculosis infection and disease among student nurses; abstract. D. R. Hastings and G. B. Behn. J Ind Hygiene 24:sup89 My '42

Urological nursing. D. M. Davis. 3d ed rev 203p $2.25 Saunders '41

See also

Hospitals

Bibliography

List of books suggested for libraries in schools of nursing. 91p pa 75c Nat. league of nursing education, 1790 Broadway, New York '42

History

Nursing history. M. Goodnow. 7th ed 495p $3 Saunders '42

Study and teaching

Essentials of a good school of nursing. 2d ed 75p bibliog(p73-5) 75c Nat. league of nursing education, New York '42

Handbook of charting for student nurses. A. L. Price. 2d ed 308p $2 C. V. Mosby co, St Louis '41

Principles and practice of ward teaching; a discussion of clinical teaching in nursing. D. M. Jensen and others. 475p $3.50 C. V. Mosby co, St Louis '42

Training for nurses (national defense). Pub Health Rep 57:307-11 F 27 '42

Ward teaching; methods of clinical instruction. A. M. Taylor. 304p bibliog(p259-63) $3.75 Lippincott '41

NURSES and nursing, Industrial

Application of mental hygiene. M. Brown. Ind Med 11:97-100 F '42

Industrial nurse. R. J. Webster, ed. Published in monthly numbers of Safety engineering

Industrial nurse; supplement to Industrial medicine. Ind Med 11:93-100 F '42 [cont quarterly]

Industrial nursing and community resources. H. H. Kessler. Nat Safety N 44:34+ D '41

Nurse's part in the industrial relations program. T. O. Armstrong. Ind Med 11:239-41 My '42

Nursing services in industry; program for the promotion of part-time nursing services in small plants. Ind Med 11:404-5 Ag '42

Our nurses go looking for trouble. J. E. Moody. Factory Management 100:104 S '42

Role of the nurse in naval defense industry. E. W. Brown. Ind Med 11:94-7 F '42

NURSES and nursing, Industrial—*Continued*

Value of industrial nursing services in small industries. P. Brown. Edison Elec Inst Bul 10:162+ Ap '42

See also

Medical service, Industrial

NURSES and nursing, Public health

Handbook on volunteer services in public health nursing organizations. E. K. Davis. 48p pa 50c Nat. organization for public health nursing, New York '41

Nursing: a community health service. A. H. Grant. 277p bibliog(p258-65) $2.50 Saunders '42

Public health nurse in action. M. Wales. 437p $2.75 Macmillan '41

Visiting nurse service for the small plant. L. Harmon. Ind Med 11:238-9 My '42

NURSES in industry. See Nurses and nursing, Industrial

NURSING ethics

Ethics; the inner realities. P. A. Goodall. 239p bibliog(p237-9) $2.50 Davis '42

Professional relationships of the nurse. H. F. Hansen. 382p $2.75 Saunders '42

NUT galls. See Galls (botany)

NUT grass

Eradication of nut grass. F. Fromm. Science 96:337-8 O 9 '42

NUTMEG

Grenada nutmegs; export, 1940 and 1941. For Comm W 7:23 My 30 '42

NUTRITION

America's nutrition primer; what to eat and why. E. Sense. 95p bibliog(p85-6) $1 M. Barrows and co, New York '41

Biotin deficiency and other changes in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. F. S. Daft, L. L. Ashburn and W. H. Sebrell. bibliog Science 96:321-2 O 2 '42

Colds on the payroll. Am Business 12:28-31 O '42

Direct use of leaf protein in human nutrition. N. W. Pirie. bibliog Chem & Ind 61:45-8 Ja 24 '42

Do you know the what and where and how to save vitamins and minerals? J. E. Becker. Am Gas Assn Proc 1941:300-4

Doctrine and diet; developments in nutritional science outrun education. J. A. Tobey. il Tech R 44:127-9+ Ja '42

Eat well for less money; the American guide to modern nutrition. G. Maddox. 219p bibliog(p205-9) $2 Dutton '42

Evaluation of the peanut as a cash crop; importance of the peanut from a biochemical standpoint, especially from that of nutrition. S. L. Jodidi. Franklin Inst J 234: 229-38 bibliog(p237-8) S '42

Family nutrition. 106p Philadelphia child health soc, Philadelphia '42

Food and nutrition of industrial workers; report of the committee on nutrition in industry of the National research council. Ind Med 11:346-8, 350, 352-5 Jl '42

Food consumption and nutrition in the Americas. R. M. Woodbury. Int Labour R 46:245-83 bibliog(p281-3) S '42

Food for Britain helps us; apparent paradox in modern nutrition. T. S. Harding. il Sci Am 166:117-20 Mr '42

Food values in shares and weights. C. M. Taylor. 92p bibliog(p91-2) $1.50 Macmillan '42

For better eating; Health for victory clubs. Business Week p28 Jl 4 '42

Fourth discussion meeting on nation's food. Chem & Ind 60:832-4 N 22 '41

Good nutrition for everybody. L. J. Bogert. 165p $1.50 Univ. of Chicago press '42

Government and industry form partnership to promote national nutrition plan. J. Murphy. il Ptr Ink 199:17-19+ Je 5 '42

Green leaves as a source of protein and other nutrients; abstract. A. C. Chibnall and others. Chem & Ind 61:112-13 F 28 '42

High vitamin flours; their production, nutritive value and commercial utility. A. W. Alcock and R. K. Larmour. il Can Chem & Process Ind 26:3-9 Ja '42

How to regain and retain health. J. H. Maassen. 282p bibliog(p263-76) $3 Health publications, Los Angeles '42

Industrial nutrition advisory service. Science 96:175 Ag 21 '42

Industrial nutrition; program for war workers gains national support. il Am Gas Assn Mo 24:301-2 S '42

Industry drafts the vitamins. Fortune 26:64+ N '42

Lights! camera! action! sell better health; motion picture, paid for by Swift & co, sponsored by government. il Ptr Ink 199:16-17 Ap 24 '42

Malnutrition in the United States; abstract. N. Jolliffe, J. S. McLester and H. C. Sherman. Science 95:sup10 Mr 27 '42

Man and his domestic animals may suffer from present trend toward non-fatty diets; abstract. G. O. Burr. Science 95:sup 11 Ap 10 '42

Minerals in nutrition. Z. T. Wirtschafter. 175p $1.75 Reinhold pub. corp. '42

Modern bread from the viewpoint of nutrition. H. C. Sherman and C. S. Pearson. 118p bibliog(p105-12) $1.75 Macmillan '42

National nutrition. M. Fishbein. 192p $1.75 Bobbs '42

National survey on nutritional information. General foods corp, 250 Park av, New York '42

Nation's food; cereals as food. D. W. Kent-Jones and A. L. Bacharach. bibliog Chem & Ind 60:823-7 N 22 '41

Nation's food; cereals as food; chemistry of wheat and wheat products. R. G. Booth and others. bibliog Chem & Ind 60:903-8; 61:245-7 D 27 '41, My 30 '42

Nation's food; cereals as food; the chemical composition and nutritive value of maize, rice, rye, and barley. W. P. Ford. bibliog Chem & Ind 60:875-8 D 13 '41

Nation's food; cereals as food; the chemical composition and nutritive value of oats and oatmeal. H. C. Moir. bibliog Chem & Ind 61:17-21 Ja 10 '42

Nutrition; an introductory text. F. Silver. 168p $1 Appleton-Century '42

Nutrition and national defense. R. M. Wilder. Ind Med 10:562-4 D '41

Nutrition and national defense. W. H. Sebrell. Am Gas Assn Proc 1941:8-11; Same cond. Am Gas Assn Mo 23:419-21 D '41

Nutrition and the war. G. Bourne. 2d ed rev & enl 148p bibliog(pxii) $1.50 Macmillan '42

Nutrition entente; food manufacturers and FSA set up merchandising campaign. Business Week p62 F 14 '42

Nutrition fiasco. Business Week p50+ Mr 7 '42

Nutrition for production. F. B. Kirkbride. Trusts & Estates 74:575-6 Je '42

Nutrition handbook. D. Taylor. 231p bibliog (p218) $2 Doubleday '42

Nutrition in Great Britain; abstract. J. B. Orr. Science 96:sup10 N 6 '42

Nutrition programs in industrial plants; Servel, Westinghouse electric & manufacturing co., General electric co. and Wisconsin alumni research foundation. Management R 31:379-80 N '42

Nutrition society, second meeting, Feb. 28. Chem & Ind 61:226-7 My 16 '42

Nutrition splurge; new campaign launched to lift McNutt's food program out of doldrums. Business Week p48+ Ap 11 '42

Nutrition survey of population groups; report of a conference on methods and procedures. Pub Health Rep 57:189-94 F 6 '42

NUTRITION—*Continued*

Nutritional deficiency and infection; influence of riboflavin or thiamin deficiency on fatal experimental pneumococcal infection in white mice. J. G. Wooley and W. H. Sebrell. bibliog Pub Health Rep 57:149-61 Ja 30 '42

Nutritional fitness surveys in industry. C. O. Sappington and A. J. Pacini. bibliog Ind Med 11:201-3 My '42

Nutritious soup made of skim milk powder, peanut flour, soya flour and peas; abstract. R. S. Harris. Science 96:sup10 O 30 '42

Our bread and milk; discussion of Wheatmeal bread or milk, by Dr N. C. Wright. A. L. Bacharach. Chem & Ind 60:791-5 N 8 '41; Discussion. H. C. H. Graves. 60:852 N 29 '41

Pack a lunch a man can work on; nutrition, theme of Bridgeport gas light company's campaign. il Am Gas Assn Mo 24:168-72 My '42

Principles of food fortification. A. L. Bacharach. Chem & Ind 61:57-60 Ja 31 '42

Proceedings of the National nutrition conference for defense, May 26-28, 1941. 254p Office of defense health and welfare services, Washington, D.C.; 35c Supt. of doc. '42

Public Service of Colorado promotes industrial-nutrition program. R. Latimer. il Gas Age 90:22-4 N 5 '42

Right food for war workers; pioneering experiment in employee nutrition at Servel. L. K. Urquhart. il Factory Management 100:86-9 O '42

Right kind of food dramatized as powerful war-winning aid, Westinghouse Health for victory club. E. Peterson. il Ptr Ink 199:14-15+ Je 19 '42

Road to good nutrition. L. J. Roberts. pls U S Children's Bur Pub 270:1-54; pa 15c Supt. of doc. '42

Save the label! how Del Monte brand retains identity in advertising contribution to national nutrition drive. il Ptr Ink 200:22-3 Ag 7 '42

Servel and gas companies unite for nutrition in industry. il Gas Age 90:11-14+ S 24 '42; Same cond. Am Gas J 157:40-2 O '42

Servel begins advertising nutrition in industry. il Gas Age 90:72-4 O 8 '42

Servel movement will help to speed war production; industrial nutrition plan. il Gas Age 90:78+ Jl 16 '42

Some factors in the nutritional determination of history. F. Hoelzel. bibliog Science 95:251 Mr 6 '42

Some observations on carotene losses in storage. R. O. Davies. Chem & Ind 61:275-6 Je 20 '42

Super-food test; mass diet experiment will enlist 1,000 aircraft workers. Business Week p70 D 6 '41

United aircraft; report on Foodex survey. E. M. Jellinek. Ind Med 11:225, 227-8 My '42

Victuals for victory; nutrition program for workers. V. R. Skogland. il Nat Safety N 46:75+ O '42

War diets may be more simple and healthful. C. Vogel. Barron's 22:5 Mr 2 '42

What the men eat; survey at airplane plant reveals faulty diet habits are prevalent. Business Week p73 Ap 18 '42

White bread and brown bread. G. Fraenkel. Chem & Ind 61:84-6 F 14 '42; Discussion. H. C. H. Graves. 61:113 F 28 '42

See also

Diet
Food
Metabolism
Vitamins

NUTRITION foundation, inc.

Food research grants. Food Ind 14:73 Je '42

Grants. Science 95:427 Ap 24 '42

Grants for fundamental research. Science 95:548 My 29 '42

Members of the scientific and food industries advisory committees. Science 95:321 Mr 27 '42

Nutrition Foundation announcements. Science 96:174-5 Ag 21 '42

Nutrition group launches career. Food Ind 14:75 Ap '42

Organization. Science 95:64 Ja 16 '42; Food Ind 14:69 F '42

NUTRITION society

British society of nutrition. Science 94:457 N 14 '41

Newly formed Nutrition society in England. Science 94:489-90 N 21 '41

NUTS

Replacing the coconut; South American nuts a solution. Barron's 22:5 F 9 '42

See also

Almonds
Babassu nuts
Brazil nuts
Cashew nuts
Curua nuts
Filberts
Piñon nuts

NUTS (machinery). See Bolts and nuts

NUTSHELL flour

Fillers; swelling properties and structure. R. J. Kent and J. Seiberlich. il Mod Plastics 19:65-9+ Je '42

NUX vomica

Indian stocks of nux vomica. For Comm W 7:24 My 9 '42

India's production of nux vomica. For Comm W 9:25 O 17 '42

NYASALAND

Increased trade during 1941. For Comm W 9:22 N 7 '42

NYLON

Development of nylon. E. K. Bolton. il Ind & Eng Chem 34:53-8 Ja '42; Same cond. Chem & Ind 61:31-5 Ja 17 '42; Same cond. Soc Dyers & Col J 58:71-4 Ap '42; Same cond. Textile Col 64:303-6 Je '42

Du Pont reports on nylon. Rayon 22:650-2 N '41

Fabrics for military purposes; rayon, nylon and other synthetics. il Textile World 92:102-3 S '42

Handling of nylon and union hosiery. H. H. Mosher. il Rayon 22:723-6; 23:35-7, 105-8 D '41-F '42

High polymeric chemistry of fibers made by Carothers. H. Boxser. diags Am Dyestuff Rep 31:373-5+ Ag 3 '42

Hosiery woes; nylon supply may be commandeered. Business Week p40+ F 7 '42

Jap nylon may enter world markets, after the war; abstract. K. Hosino. Sci Am 167:26 Jl '42

Longer-wearing bristles for industry. il Mod Plastics 19:50 Ja '42

Manufacture of nylon in Japan. W. Davis. Science 95:sup10 My 15 '42

Martinsville nylon plant starts. il Textile World 91:75 D '41

More nylon for America; du Pont's new plant at Martinsville, Va. il News Ed 19:1403 D 10 '41

New barrel-wind attachment for nylon sizing machine. il Rayon 23:489 Ag '42

New nylon problems created by rayon welts. V. A. Schiffer. Rayon 22:668-9 N '41

Nylon fleece. Business Week p41-2 Ag 1 '42

Nylon in the weave room. L. Schlessinger. il Rayon 23:523-4 S '42

Nylon waste wanted by DuPont. Rayon 23:558 S '42

Processing new types of viscose, bemberg, nylon and mixture hosiery. L. O. Koons. Rayon 23:108-9 F '42; Same. Textile Col 64:285-6+ Je '42

South's first nylon plant at Martinsville, Virginia. il Manuf Rec 110:31+ N '41

Treatment for improving nylon; patent. Textile Col 63:666-7 D '41

Winding bobbins for nylon fabrics. il Rayon 23:339-40 Je '42

Woman complains. Business Week p87 O 3 '42

See also

Dyes and dyeing—
  Nylon

NYLON printing
Printing of all-nylon fabrics. P. L. Meunier. Am Dyestuff Rep 31:232-9 My 11 '42

NYSTROM, Karl Fritjof, 1881-
Sketch. pors Ry Mech Eng 116:93-8+ Mr '42

O

OAK galls. See Galls (botany)

OAKLAND, California
Oakland is prepared. il Elec West 89:64-5 Ag '42

Rapid transit

Ray maps show defense transit needs. C. Robertson. il Transit J 86:168-70 My '42

OATMEAL
Nation's food; cereals as food; the chemical composition and nutritive value of oats and oatmeal. H. C. Moir. bibliog Chem & Ind 61:17-21 Ja 10 '42

OATS
Nation's food; cereals as food; the chemical composition and nutritive value of oats and oatmeal. H. C. Moir. bibliog Chem & Ind 61:17-21 Ja 10 '42

OBSERVATORIES, Astronomical. See Astronomical observatories

OBSOLESCENCE
Procedure of measuring obsolescence in machinery and plants. K. J. Affanasiev. bibliog Edison Elec Inst Bul 10:345-9 S '42

See also
Depreciation
Machinery, Replacement of

OCCUPANCY organization. See Housing—Occupancy organization

OCCUPATIONAL diseases. See Diseases, Industrial

OCCUPATIONS
Better rural careers; vocational aspects of rural life in the South. P. W. Chapman. 316p 92c Science research associates, 1700 Prairie av, Chicago '41
Book of opportunities, a dictionary of jobs; personal sidelights on 4,000 American occupations. R. Platt. 3d ed rev 506p $3 Putnam '42
Dynamics of vocational adjustment. D. E. Super. 286p $3 Harper '42
Fitting workers to jobs. C. L. Shartle. Personnel J 20:328-32 Mr '42
Guidance in occupations. P. J. Caroselli. 67p $1.50 Christopher pub. house, 1140 Columbus av, Boston '42
Handbook of careers. H. Burstein, ed. 120p $1; pa 50c Thesis pub. co, New York '41
How to get a job in war work. G. K. F. Mann. 64p pa 15c Consolidated book publishers, 537 S. Dearborn st, Chicago '42
Job descriptions for the garment manufacturing industry. 237p bibliog (pxxxvii-xxxix) U.S. Employment service, Washington; $1 Supt. of doc. '41
Jobs for today's youth. T. O. Nall and B. H. Davis. 168p bibliog(p165-8) $1.75 Association press, New York '41
Occupational exploration; a guide to personal and occupational adjustment. J. H. Bedford and A. F. Steelhead. 306p $2.50 Soc. for occupational research, Los Angeles '41
Occupations in retail stores. D. de Schweinitz. 2d ed 422p $2.75 International textbook co, Scranton, Pa. '41
Planned career in the paper industry. D. C. Yates. Pulp & Pa of Can 42:599-601, 610, 612-13, 652-3, 659-60, 727-8, 769-70; 43:17-21, 250-2, 301-3, 361-2 S '41-Ap '42
School courses and related careers; a vocational survey plan. O. R. Bacher and G. J. Berkowitz. 96p bibliog pa 90c Science research associates, 1700 Prairie av, Chicago '41
Seven keys to getting and holding a job. G. J. Lyons and H. C. Martin. 241p $1.20 Gregg '42
Tomorrow's greatest educational need! formal training for building industry careers. A. A. Hood. Am Bld 64:61-4+ F '42
Trade and job analysis. V. C. Fryklund. 167p $1.75 Bruce pub. '42
Vocations for boys. H. D. Kitson and M. R. Lingenfelter. 332p bibliog(p297-326) $2.50 Harcourt '42
Your career in defense. S. C. Davis. 311p $2 Harper '42
Your job and American victory. T. Barrett. 294p $2.50 George W. Stewart, 67 W. 44th st, New York '42

See also
Ability tests
Aeronautic workers
Job analysis
Radio workers
Trust service
Vocational guidance
Woman—Occupations

Bibliography

Occupational index. $5 Published quarterly by the Occupational index, New York univ, Washington sq. E, New York '42
Occupational information and guidance bibliography, 1937-38. P. T. Orata and W. B. Cookingham, comps. 521p U.S. Office of education, Washington; pa 55c Supt. of doc. '41
Vocational guidance for girls and women; references and related information. M. W. Zapoleon and L. Moore. (Vocational div. bul. 214) 162p U. S. Office of education, Washington '41
Vocations; a selected bibliography of material in the Iowa state college library. 25 numb l Iowa state college of agriculture and mechanic arts, Ames '41

Classification

Classified index of occupations; occupation classification based on the standard classification; sixteenth census of the United States. A. M. Edwards and L. E. Truesdell. 199p U.S. Dept. of commerce, Bur. of the census, Washington; 60c Supt. of doc. '40
Functional pattern technique for classification of jobs. E. W. Davis. 128p bibliog (p121-3) $1.85 Teachers college '42
Selective service policies; occupational classifications; official information. R Sci Instr 13:315-25 Ag '42

Statistics

Loss of trained men to other fields faces graphic arts. Inland Ptr 108:21-3 D '41
Occupational distribution of population in Colombia, July 1938. Monthly Labor R 53: 1173-6 N '41
Wages and normal hours of work of adult males in certain occupations in various countries in October 1940. Int Labour R 44:470-88 O '41
Wages and normal hours of work of adult males in certain occupations in various countries in October 1941. Int Labour R 46:638-53 N '42

OCCUPATIONS, Choice of
Choosing your course. C. M. Smith and S. Baron. 302p $1.40 Holt '42
Drives of workers. H. A. Wren. Personnel J 20:317-23 Mr '42
Syllabus for the study of educational-vocational choices; vocational orientation, University of Minnesota, Oct. 1941. M. E. Hahn. 61 numb l Univ. of Minnesota, Minneapolis '41
Vocational aspiration levels of adults. H. A. Wren. 150p bibliog(p129-31) $1.85 Teachers college '42

OCCUPATIONS, Dangerous
Occupation hazards and diagnostic signs. L. I. Dublin and R. J. Vane. (Bul. 41) 70p bibliog(p69-70) U.S. Division of labor standards, Washington '41
Occupational hazards to young workers; explosives-manufacturing industries. U S Children's Bur Pub 273:1-19; pa 10c Supt. of doc. '42

OCCUPATIONS, Dangerous—*Continued*

Occupational hazards to young workers; woodworking machines. U S Children's Bur Pub 277:1-53; pa 10c Supt. of doc. '42

See also

Accidents, Industrial
Coal miners
Diseases, Industrial
Hygiene, Industrial
Miners
Poisons, Industrial

OCEAN

Oceanographic observations on the E. W. Scripps cruises of 1938. H. U. Sverdrup and others. (Scripps institution of oceanography, Records of observations v. 1, no. 1) 63p pa 75c Univ. of California press, Berkeley '42

Oceanography for meteorologists. H. U. Sverdrup. 246p bibliog(pvi-vii) $3.50 Prentice-Hall '42

Swedish oceanographic research in 1941. H. Pettersson. Science 96:156-7 Ag 14 '42

Why the sea is salt. C. H. White. bibliog Am J Sci 240:714-24 O '42

See also

Coast changes
Diatoms
Marine biology
Navigation
Ocean bottom
Sea water
Sounding
Tides

OCEAN bottom

Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; diatomaceae. K. E. Lohman. il U S Geol S Professional Pa 196-B:55-86, pl 11-17; pa 45c Supt. of doc. '41

Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; ostracoda. W. L. Tressler. il U S Geol S Professional Pa 196-C:95-104, pl 18-19; pa 15c Supt. of doc. '41

Nondepositional physiographic environments off the California coast. F. P. Shepard. bibliog Geol Soc Bul 52:1869-86, pl 1-2 D '41

Phosphorite deposits on the sea floor off southern California. R. S. Dietz, K. O. Emery and F. P. Shepard. Geol Soc Bul 53: 815-47, pl 1-3 bibliog(p846-7) Je '42

Radioactivity of ocean sediments; concentrations of the radio-elements and their significance in red clay. W. D. Urry and C. S. Piggot. bibliog Am J Sci 240:93-103 F '42

Radioactivity of ocean sediments; radium content of sediments of the Cayman trough. C. S. Piggot and W. D. Urry. bibliog Am J Sci 240:1-12 Ja '42

Time relations in ocean sediments. C. S. Piggot and W. D. Urry. bibliog Geol Soc Bul 53:1187-1210 Ag '42

See also

Sounding

OCEAN currents

Characteristics of the waters in sections from Dutch harbor, Alaska, to the strait of Juan de Fuca and from the strait of Juan de Fuca to Hawaii. J. Goodman and T. G. Thompson. (Publication in oceanography, v. 3, no. 3) 103p bibliog pa 75c Univ. of Washington, Seattle '40

See also

Humboldt current

OCEAN mud. See Ocean bottom

OCEAN travel

See also

Steamboats

OCEANIA

Westward the course! the new world of Oceania. P. McGuire. 434p $3.75 Morrow '42

OCTADECADIENOIC acid

Solid 10,12-octadecadienoic acid-1; a new conjugated linoleic acid melting at 57°. J. D. von Mikusch. bibliog Am Chem Soc J 64: 1580-2 Jl '42

OCTADECANENITRILE

Pressure-area-temperature and energy relations of monolayers of octadecanenitrile. L. E. Copeland and W. D. Harkins. Am Chem Soc J 64:1600-3 Jl '42

OCTADECANOIC acid

Branched-chain fatty acids; synthesis of 17-methyloctadecanoic acid. J. Cason. bibliog Am Chem Soc J 64:1106-10 My '42

OCTADECENOIC acid

Certain derivatives of the octadecenoic acids; *p*-phenylphenacyl esters; the S-benzylthiuronium salts. J. P. Kass, J. Nichols and G. O. Burr. bibliog Am Chem Soc J 64: 1061-2 My '42

OCTADECYLAMINE

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides and acetates of dodecyl- and octadecyl amines. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. Am Chem Soc J 64:97-101 Ja '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine hydrochlorides. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:498-503 Mr '42

Studies on high molecular weight aliphatic amines and their salts; the systems octylamine-, dodecylamine- and octadecylamine-water. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. il Am Chem Soc J 64:1516-23 Jl '42

OCTAHEDRITE

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42

OCTAHYDRONAPHTHALENE. See Octalin

OCTAHYDROPHENANTHRENE

Stereochemistry of catalytic hydrogenation; the hydrogenation of 9-phenanthrol and related substances and the identification of three of the possible stereoisomeric forms of the perhydrophenanthrene ring. R. P. Linstead, R. R. Whetstone and P. Levine. bibliog Am Chem Soc J 64:2014-22 S '42

OCTALIN

Oxidation product of $\Delta^{9,10}$-octalin. G. C. Harris. Am Chem Soc J 64:720 Mr '42

OCTANE

Compressibility of liquid *n*-octane. W. A. Felsing and G. M. Watson. Am Chem Soc J 64:1822-3 Ag '42

Mollier diagrams for theoretical alcohol-air and octane-water-air mixtures. R. Wiebe, J. F. Shultz and J. C. Porter. bibliog il diags Ind & Eng Chem 34:575-80 My '42

OCTANE number

See also

Gasoline—Anti-knock and anti-knock mixtures
Gasoline—Rating

OCTANTS. See Aeronautic instruments

OCTOIC acid. See Caprylic acid

OCTOPUS

Some observations on the feeding habits of the octopus. M. W. Johnson. Science 95: 478-9 My 8 '42

OCTYL alcohol

Structure-property relationships in some isomeric octanols. G. L. Dorough and others. bibliog Am Chem Soc J 63:3100-10 N '41

OCTYLAMINE

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

Studies on high molecular weight aliphatic amines and their salts; the systems octylamine-, dodecylamine- and octadecylamine-water. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. il Am Chem Soc J 64:1516-23 Jl '42

OCTYLDOCOSANE

Higher hydrocarbons; seven alkyl substituted docosanes. F. C. Whitmore, L. H. Sutherland and J. N. Cosby. bibliog Am Chem Soc J 64:1360-4 Je '42

OCTYLRESORCINOL

Vicinal substituted resorcinols; alkylresorcinols; the synthesis of γ-*n*-hexyl, γ-*n*-heptyl and γ-*n*-octylresorcinols. A. Russell and H. C. Gulledge. Am Chem Soc J 64:1313-15 Je '42

OCTYNE

Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

O'DONNELL, Charles Francis, 1882-

Judge C. F. O'Donnell, president of Southwestern Life. A. Acheson. por East Underw 42:54 D 12 '41

ODORS

What you can use; odorants for printing inks. Oil Paint & Drug Rep 140:56 N 24; 58 D 1 '41

See also

Deodorization
Gas, Natural—Odorizing
Musk
Paint—Odor removal
Perfumery
Sewage disposal—Odor removal
Water purification—Taste and odor removal

Measurement

Accuracy and application of threshold odor tests. C. H. Spaulding. il Am Water Works Assn J 34:877-910 Je '42

Studies on the accuracy of threshold odor values. R. Hulbert and D. Feben. Am Water Works Assn J 33:1945-56; Discussion. 1956-64 N '41

OFFICE appliances

Care saves wear; tips from Remington Rand, inc. Banking 35:35 Jl '42

International Business Machines for war or peace. C. MacDonald. Barron's 22:18 Je 15 '42

Modern equipment aids office efficiency; forty years of progress. K. G. Pendock. Pulp & Pa of Can 43:618-19 Jl '42

More life for office machines. F. J. Cummings. il Am Business 12:30-2+ F '42; Abstract. Management R 31:123-4 Ap '42

More mileage from old office machines. il Am Business 12:12-14 S '42

New systems and equipment. Published in monthly numbers of American business

When you must produce more with fewer employees; ideas for increasing machine output. Am Business 12:16, 18 S '42

See also

Accounting—Mechanical aids
Calculating machines
Cash registers
Dictating machines
Duplicating machines
Office equipment
Telautograph
Typewriters
Typewriters, Automatic

OFFICE buildings

Concreting a 100-acre office building; War department office building in Arlington, Va. il Eng N 128:920-4 Je 4 '42

Office buildings report 87.9% occupancy now. Comm & Fin Chr 155:219 Ja 15 '42

Planning the world's largest building; War department office building. il plans Eng N 129:569-75 O 22 '42

Speed and conservation are paramount on Washington's temporary office buildings. il Eng N 128:744-5 Ap 30 '42

See also

Building and loan association buildings
Insurance company buildings
Newspaper offices
Office lighting
Printing offices
Steel construction

Air conditioning

Air conditioning to meet office-building needs; Metropolitan Life's home offices. il diags plan Power 86:234-6, 253-4 Ap '42

Balconies designed to cut cooling load; Longfellow building, Washington, D.C. il diags Heating-Piping 13:754 D '41

Second largest a.c. system in New England described; New England mutual life insurance company; abstract. F. Ellis. il Heat & Ven 39:60 My '42

Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

See also

Office buildings, Industrial—Air conditioning

Designs and plans

Office and commercial buildings; building types study. il diags plans maps Arch Rec 90:81-8 D '41

Electric equipment

Economics of installation planning; consideration of wiring problems in large stores and office buildings. H. M. Winstanley. Electrician 127:348-9 D 19 '41

See also

Elevators, Electric
Office lighting

Heating and ventilation

12-year old ventilating problem solved; Northwestern national life insurance co. building. E. W. Gifford. il Heat & Ven 38:35 D '41

Lighting

See Office lighting

Power

Compressed air provides twenty-one flexible services for office building; piped to all parts of the Metropolitan Life building; actuates radiator valves, powers dampers, blows soot, etc. il Power 86:180-2 Mr '42

Putting the know-why into small-plant operation; power plant of Washington Life building, New York. il Power 86:419-21 Je '42

Protection

Practical air raid precautions make New York Postum office building as safe as most shelters. il plans Arch Forum 76:147-9+ Mr '42

OFFICE buildings, Industrial

Administration building for an industrial plant in California; views, plan and construction outline. Arch Forum 77:89-92 Ag '42

Aircraft plant and administration building. il diag Arch Rec 91:43 Mr '42

Factory offices; Gorton machine company, Racine, Wis. il plan Arch Rec 91:50 F '42

Flexible plant for plane production; office building features shadowless daylight drafting room with direct sun-rays controlled by special screens. Eng N 129:594 O 22 '42

National Gypsum's new offices, Buffalo, N.Y. il Rock Prod 45:45 Je '42

New United Carbon building is formally opened. il Rubber Age 50:127 N '41

Office building for the National gypsum company; views, plans, construction outline. Arch Forum 77:62-9 O '42

Office building, Lebanon, Ore.; administration building for plywood plant with apartment for overnight visitors. il plans Arch Forum 76:166-8 Mr '42

Office designed to save critical materials; wood frame with interior columns of steel filled with concrete. il Eng N 129:636-7 N 5 '42

Pfizer opens new building; laboratory and office building, Brooklyn. G. O. Cragwall and W. H. Staebner. il plans Chem Ind 51:512-15 O '42

Remodeled office building; home office of Lehigh-portland cement co.; views, plans, and construction outline. Arch Forum 76:352-4 Je '42

OFFICE buildings, Industrial—*Continued*

Air conditioning

Air conditioning, added; Florida power and light company building. il diag Dom Eng 159:55-6+ Ap '42

Chemical conditioning system for independent humidity control; administration and factory offices. E. A. Windham. il diag Heating-Piping 14:25-7 Ja '42

Double duct air conditioning system meets individual room requirements; Detroit Edison co. general offices building. J. N. Livermore. il diags Heating-Piping 14:91-5 F '42

Torpedo boats for the U.S. navy are designed in air conditioned drafting rooms and offices. R. Latimer. il Heat & Ven 39:39-40 S '42

Electric equipment

Exterior feeds solve rewiring problem; changeover in factory office building; General electric co. A. H. Fish. il diags Elec W 118:764-6 S 5 '42

Heating and ventilation

Exhaust office air heats steel storage warehouse. il Heating-Piping 14:553-4 S '42

OFFICE buildings, Professional

Professional building has income space in basement; dentist's and physician's offices, beauty parlor. il plans Am Bld 64:57 Ja '42

OFFICE costs

Cutting clerical costs. E. J. Benge. plans Credit & Fin Management 44:4-6 Ap; 10-13 My '42

Living and office operating costs in Argentina. il For Comm W 7:8-9+ My 30 '42

Living and office operating costs in Cuba. For Comm W 6:6-7+ Mr 7 '42

Living and office-operating costs in Mexico. For Comm W 7:9-10 Je 27 '42

Living and office operating costs in Nicaragua. For Comm W 6:8-9 Mr 21 '42

Living conditions and office-operating costs in British Guiana. For Comm W 8:11+ Jl 18 '42

OFFICE equipment

Equipping the new office; abstract. Management R 31:8-9 Ja '42

Treasury stricter on depreciation of office equipment. Nat Underw 46:8 Ap 9 '42

See also

Insurance companies—Equipment and supplies

Office appliances

Office furniture

Office supplies

also Specialty accounting supply manufacturers association

OFFICE equipment industry

More war material wanted from office equipment industry. Barron's 22:12 F 16 '42

Securities

Favorable war and peace prospects for office appliance companies. H. Lawrence. Barron's 22:20 O 26 '42

Mixed earnings outlook for office equipments; positions of leading stocks. Mag of Wall St 69:495 F 7 '42

Office equipments convert to war. A. B. Wells. il Mag of Wall St 70:78-80+ My 2 '42

Position of leading business equipment stocks. Mag of Wall St 70:447 Ag 8 '42

OFFICE furniture

Office equipment, modern style; drawer pulls and handles, thumb latches, knobs and label holders. il Mod Plastics 19:58 Je '42

When you need more office room; United autographic register co. uses modern desks and tables, properly arranged. il Am Business 12:26-8, 30 My '42

See also

Desks

OFFICE lighting

Fight for the ceiling; air conditioning engineer, lighting engineer and the acoustical engineer, each must claim part of ceiling for his equipment K. C. Porter. il Heating-Piping 14:484-5 Ag '42; Discussion. 14:550-1 S '42

Filament indirect lighting in an office; case study in approved conversion lighting. diag Elec W 118:115 Jl 11 '42

Fluorescent lighting in an office building; case study in approved conversion lighting. diag Elec W 118:111 Jl 11 '42

Light for a general office. il Elec West 88:59 Ja '42

Light for offices. il Elec West 88:44 Mr '42

Light for offices of a lamp company, South Pacific sales division offices of General electric company. il Elec West 89:66 Ag '42

Light must live; for brainworkers. il Elec West 89:47 S '42

Offices are important, too; illustrations. Factory Management 99:86-9 D '41

Recommended practice of office lighting. bibliog il diags Illum Eng 37:449-89 S '42

OFFICE management

Adjusting office procedures to war conditions; abstract. C. A. Smith. Management R 31:263-4 Ag '42

Applied office practice. A. A. Morrill, M. A. Bessey and J. V. Walsh. 3d ed 368p $2 Heath '42

Applying time-motion study in the office; abstract. A. W. Moise. Management R 30:437-9 D '41

Assessment organization and personnel. 429p $3.75 Nat. assn. of assessing officers, Chicago '41

Business tackles the office help problem. R. H. Stuebing and others. Am Business 12:19-21 S '42; Excerpts. Management R 31:372-3 N '42

Cutting clerical costs. E. J. Benge. plans Credit & Fin Management 44:4-6 Ap; 10-13 My '42

Guide to the organization and operation of a central transcribing department. C. H. Page. 183p bibliog(p175-8) $2.75 Life office management assn, New York '40

How Studebaker controls office expenses; abstract. W. E. Tarr. Management R 31:230-1 Jl '42

How WPB handles mountains of paper work. J. Garth. il Am Business 12:18-20, 22-4 Je '42

Improvised efficiency; abstract. E. J. Bartlett. Management R 31:195-6 Je '42

Office management. G. M. Darlington. rev ed 267p $2.50 Ronald press '42

Office management and practices. J. J. W. Neuner and B. R. Haynes. 530p $3.75 South-western pub. co. '41

Office politics can be cut out for keeps. H. E. Fleming. Ptr Ink Mo 43:32+ D '41

Office supervisor; his relations to persons and to work. H. E. Niles and M. C. H. Niles. 2d ed 269p bibliog(p257-62) $2.50 Wiley '42

Production planning in the office; abstract. H. M. Kaiser. Management R 30:402-3 N '41

Stepping up office production. H. E. Niles and others. 48p Am. management assn, New York '41

Survey of office conservation programs; abstract. Management R 31:193-4 Je '42

System and business management ideas. Published in monthly numbers of American business

System gets the job done. A. Griffith. Ins Field (Fire ed) 71:18-19 S 10 '42

These ideas will cut costs in 1942. il Am Business 12:19-20 Ja '42; Abstract. Management R 31:45-6 F '42

This plan cuts costs of office supplies; Brunswick-Balke-Collender company. W. K. Panzenhagen. Am Business 12:17, 46 Ap '42

Time study applications in the office. Management R 31:325-6 S '42

War and the office. C. H. Newton, jr. Am Gas Assn Mo 24:316-17 S '42

When you must produce more with fewer employees; ideas for increasing machine output. Am Business 12:16, 18 S '42

OFFICE management—*Continued*

Work simplification in the factory office. L. K. Urquhart. il Factory Management 100: 100-2 N '42

See also

Accounting
Billing
Business management
Commercial correspondence
Credit departments
Executives
Files and filing (documents, etc.)
Mailing lists
Office workers
Orders
Payrolls
Stenographers
Telephone in business

Bibliography

Index to publications of the Life office management association, 1924-1941. 137p $3 Life office management assn, New York '41

Office management; abstracts. Published in monthly numbers of Management review

OFFICE of government reports. See United States—Government reports, Office of

OFFICE supplies

Conserving office supplies. Barron's 22:5 Ag 10 '42

This plan cuts costs of office supplies; Brunswick-Balke-Collender company. W. K. Panzenhagen. Am Business 12:17, 46 Ap '42

See also

Bank supplies

OFFICE workers

Adjusting office procedures to war conditions; abstract. C. A. Smith. Management R 31:263-4 Ag '42

Air raid safety plan for office buildings. J. J. Hennessy. Safety Eng 83:28 Je '42; Same. Nat Safety N 46:85-6 Jl '42

Business tackles the office help problem. R. H. Stuebing and others. Am Business 12:19-21 S '42; Excerpts. Management R 31:372-3 N '42

Characteristics of good clerks. A. F. Dodge. Personnel J 20:324-7 Mr '42

Comparative statistics on clerical salaries. Management R 31:181-2 My '42

Earnings and hours in manufacture of cigarettes, chewing and smoking tobacco, and snuff, December 1940; office workers. T. P. Henson. Monthly Labor R 54:206-7 Ja '42

Earnings of white-collar workers in Illinois and New York factories, October 1941. Monthly Labor R 54:765-8 Mr '42

From saints to sinners. C. S. Rich. Bankers M 145:257-8 S '42

Getting the best men available; New York Central hires all N.Y. clerical employees through central office. Ry Age 113:53+ Jl 11 '42

Girl problem; capable office help scarce in Detroit. Business Week p80+ Ag 22 '42

Girl with a pay check; how she lands it, holds it, makes it grow. F. Maule. 273p $2 Harper '41

People on your staff; building office manpower. E. J. Benge. Credit & Fin Management 44:16-18, 40 Je '42

Recruiting office workers today; abstract. J. J. Goldie. Management R 31:299-300 S '42

Salary trends for office work since 1940. E. Whitmore. Am Business 12:7-9+ S '42

What's happening to white-collar pay? abstract. Management R 30:399-401 N '41

See also

Bank employees
Secretaries, Private
Stenographers
also United office and professional workers union

Rating

Measuring output of office workers; abstract. Neuner and Haynes. Management R 31: 78-9 Mr '42

Standardization, harmonizer of human effort. D. F. Miner. Advanced Management 7:15-22 Ja-Mr '42; Same abr. Ind Stand 13:61-6 Mr '42

OFFICES

Background for blueprints. il Mod Plastics 19:40-1+ F '42

Low cost private office; supervisor's office, Iowa WPA art program, Des Moines; views and plan. Arch Rec 91:48-9 F '42

Offices are important, too; illustrations. Factory Management 99:86-9 D '41

Styling of PCA's executive offices. il Aero Digest 41:131-2+ Ag '42

See also

Architects' offices
Designers' offices
Newspaper offices
Physicians' offices
Printing offices

Layout

Cutting clerical costs; surveying for simplification. E. J. Benge. plans Credit & Fin Management 44:4-6 Ap '42

When you need more office room; United autographic register co. uses modern desks and tables, properly arranged. il Am Business 12:26-8, 30 My '42

Noise reduction

Fight for the ceiling; air conditioning engineer, lighting engineer and the acoustical engineer, each must claim part of ceiling for his equipment. K. C. Porter. il Heating-Piping 14:484-5 Ag '42

OFFSET printing. See Printing, Offset

OGDEN corporation

Bond sale approved by SEC; competitive bidding rule waived. Comm & Fin Chr 156:435 Ag 3 '42

Files plan to liquidate two companies. Comm & Fin Chr 154:1599 D 20 '41

Ogden; a case history in integration. Pub Util 28:698-700 N 20 '41

Reports progress. Comm & Fin Chr 155:1414 Ap 6 '42

OHIO

See also

Gas, Natural—Ohio

Industries and resources

Ohio's war production job. J. A. McWethy. il Barron's 22:8-9 S 28 '42

OHIO Bell telephone company

Earnings, 1938-1941. Comm & Fin Chr 155: 1414 Ap 6 '42

OHIO fuel gas company

Merger of Northwestern Ohio natural gas co. into Ohio fuel gas co. Comm & Fin Chr 155:1843 My 11 '42

OHIO river

Mining coal in the Ohio river; cleaning plant floats along side of dredge. E. Drennen. il diag map Min Cong J 28:38-41 S '42

OHM. See Electric units

OIL. See Oils and fats; Petroleum

OIL, Gas. See Gas oil

OIL, Insulating

Build filter plant into 1½-ton truck. P. W. Meinhardt. il diags Elec W 117:94+ Ja 10 '42

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

Electrical stability of mineral-oil-treated dielectrics; influence of refining technique. F. M. Clark and E. L. Raab. bibliog Ind & Eng Chem 34:110-16 Ja '42

Insulating oils; discussion. Electrician 128: 513-16 My 22 '42

Insulating oils; symposium before Transmission section of the Institution of electrical engineers. Elec R (Lond) 130:623-4 My 15 '42

Load transfer made under oil; transition from underground to overhead distribution made through oil-filled terminal boxes. il Elec W 118:805 S 5 '42

Maintenance of insulating oil. L. M. Limpus. Elec W 118:1464, 1652+ O 31-N 14 '42

Multi-purpose maintenance oil truck. il diag Elec W 117:1864-5 My 30 '42

Oil salvage; filtration plant. Electrician 129: 92 Jl 24 '42

OIL, Insulating—*Continued*

Analysis

Determination of water in insulating oil; manometric procedure. R. N. Evans and J. E. Davenport. diag Ind & Eng Chem Anal ed 14:732-3 S 15 '42

Testing

Dielectric strength and life of impregnated-paper insulation; further experiments on influence of the density of the paper. J. B. Whitehead. Elec Eng 61:Trans 618-22 Ag '42

Early detection of bad oil conditions. il Elec W 118:650 Ag 22 '42

Oil power-factor measured by bridge. E. J. Mommo. il diag Elec W 117:688 F 21 '42

OIL, Lubricating. See Lubricating oils

OIL, Transformer

Emergency overloads for oil-insulated transformers. F. J. Vogel and T. K. Sloat. Elec Eng 61:Trans 669-73 S '42

Low oil level causes fuse outages. H. R. West. Elec W 117:96 Ja 10 '42

Transformer insulation; electrical and mechanical characteristics for oil immersion. C. H. Pike. bibliog il Elec R (Lond) 131:141-4 Jl 31 '42

Testing

Proposed methods of test for sludge formation in mineral transformer oil. il diag Am Soc T M Proc 41:413-18 '41

OIL absorption of pigments. See Pigments

OIL analysis

Analysis of peppermint oil. L. H. Baldinger. bibliog Ind & Eng Chem Anal ed 14:15-20 Ja 15 '42

Determination and examination of light oil in gas. W. L. Glowacki. Am Gas Assn Proc 1941:449-50

Determination of fumigants; methods of analysis of heavy naphtha and other neutral light oils. N. F. Sarsfield. Soc Chem Ind J 61:6-13 Ja '42

Determination of grease in sewage, sludge, and industrial wastes. R. Pomeroy and C. M. Wakeman. bibliog Ind & Eng Chem Anal ed 13:795-801 N 15 '41

Determination of oil in metal turnings; improved method and apparatus. D. Margolis. diags Ind & Eng Chem Anal ed 14:478-9 Je 15 '42

Determination of the aniline point of dark petroleum oils. B. B. Carr and M. S. Agruss. il Ind & Eng Chem Anal ed 14:105-6 F 15 '42; Excerpt. Nat Pet N 33:R301 S 17 '41

Determination of water-immiscible organic solvents volatile with steam in sulfonated (sulfated) oils; report no. 8 of the subcommittee on sulfonated oils. diags Am Dyestuff Rep 31:64-70 F 2 '42

Determination of water in insulating oil; manometric procedure. R. N. Evans and J. E. Davenport. diag Ind & Eng Chem Anal ed 14:732-3 S 15 '42

Determining the oil content of paraffin waxes. R. Lee and V. A. Kalichevsky. bibliog diags Ind & Eng Chem Anal ed 14:767-9 O 15 '42

Extraction of metallic constituents from oils. E. P. Rittershausen and R. J. DeGray. Ind & Eng Chem Anal ed 14:806-7 O 15 '42

Improved method of determining benzene in medium-temperature light oils. L. P. Rockenbach and D. A. Reynolds. U S Bur Mines Rep of Invest 3619:1-5 '42

Java citronella oil. E. Guenther. bibliog il Soap & San Chem 18:27-30, 69-70 Ap '42

Mixed unsaturated glycerides of liquid fats; low-temperature crystallisation of olive oil. T. P. Hilditch and L. Maddison. Soc Chem Ind J 60:258-62 O '41

Phosphatides from soybean oil. M. H. Thornton and H. R. Kraybill. bibliog Ind & Eng Chem 34:625-8 My '42

Type analysis of hydrocarbon oils. R. M. Deanesly and L. T. Carleton. bibliog Ind & Eng Chem Anal ed 14:220-6 Mr 15 '42

Ultraviolet absorption spectra of linseed oil; determination of bodied-*in-vacuo* and blown linseed oil in mixtures with raw linseed oil. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Ind & Eng Chem Anal ed 13:765-8 N 15 '41

Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

See also

Gasoline—Analysis
Lubricating oils—Analysis
Peppermint oil—Analysis
Petroleum—Analysis

OIL bulk stations

Equipment

District 2 surveys marketing equipment. Nat Pet N 33:12 D 31 '41

OIL burner industry

Fuel oil and burner restrictions tighten. map Heat & Ven 39:58 Je '42

Statistics

1940 fuel oil sales up 9%; burners up 13%. Nat Pet N 33:10 N 19 '41

OIL burner institute

Annual meeting, New York, March 10. Dom Eng 159:54+ Ap '42

OIL burners

Changes in oil burners increase CO_2. P. E. Merideth. diags Power 86:427 Je '42

Emergency heating plant conversion from oil to coal. A. J. Johnson. Heat & Ven 39:27-9 My '42

Fuel oil situation in the East; with chart showing relative ease of converting the East's oil burners to coal. Heat & Ven 39:46 Jl '42

How to increase efficiency of domestic oil burners. Nat Pet N 34:32-4 Je 17 '42

Many obstacles prevent home owners from converting oil burners to coal. A. M. Petty. il Nat Pet N 34:27-8 Jl 8 '42

N.W.A.H.A.C.A. adopts oil-burning furnace code. il diags Sheet Metal Worker 32:50, 52 N '41

Oil burner handbook, the A-B-C of oil burners. L. J. Whelan. 2d ed 245p $2.50 Landau book co, 16 E. 17th st, New York '42

Oil burner service manual. K. Steiner and F. Ravnsbeck. 365p $4 McGraw-Hill '42

Points to check for oil burner conservation. il diag Dom Eng 160:42-3 S '42

Twenty years of progress in domestic oil heating. R. J. Bender. bibliog il diags Mech Eng 64:731-40 O '42

Viscosity compensation for oil burners. K. Steiner. diags Heating-Piping 14:292-4 My '42

Control

Constant differential oil burning systems. il diags Rayon 23:429-30 Jl '42

Rating

Boiler-burner units and boilers for use with burners. Consumers' Research Bul 9:14-15 F '42

Oil burners. il Consumers' Research Bul 9:3-6 Ja '42

Standards

Automatic mechanical-draft oil burners designed for domestic installations. 2d ed U S Nat Bur Stand Commercial Standard CS75-42:1-24; pa 10c Supt. of doc. '42

Testing

Improved Penn State smokemeter. P. H. Schweitzer. il diags Instruments 15:346-50 S '42

OIL burning equipment

See also

Boilers—Oil firing

Conversion to coal

See Coal burning equipment

OIL burning equipment—*Continued*

Safety measures

Domestic oil burners; keep an extinguisher handy. W. E. Rossnagel. il Nat Safety N 46:74+ O '42

Standards

Flue-connected oil-burning space heaters equipped with vaporizing pot-type burners. il diags U S Nat Bur Stand Commercial Standard CS101-43:1-22 '42

OIL cans

Fewer 1-quart cans for oil seen as war hits tin supply. Nat Pet N 33:9 D 24 '41

OIL circuit breakers. See Electric circuit breakers

OIL companies

Refining's response to war stimulus shown in oil company 1941 reports. Nat Pet N 34:R99-100 Ap 1 '42

See also

Gasoline industry
Gasoline service stations
Lubricating oil industry
Oil bulk stations
Oil fuel industry
Oil industries
Petroleum industry and trade
Socony-Vacuum oil company
Standard oil company (N.J.)

Advertising

Advertising is the A in oil jobber's ABCs; Rice oil co. il Nat Pet N 33:25, 28-9+ D 10 '41

Home town advertising pulls 'em in for Pacific Northwest oil jobber; Maxwell petroleum corp. V. B. Guthrie. il Nat Pet N 34:29, 32+ Ja 21 '42

How oil jobbers use advertising; Armada oil & gas co. il Nat Pet N 33:19-20, 22 N 26 '41

Jobber's direct mail advertising backs national brand campaigns; Bunges oil co. Nat Pet N 34:37-8 Ja 21 '42

Newspaper ads help to calm tire jitters. il Nat Pet N 34:32 Mr 25 '42

Wisconsin jobber promotes anti-jitter campaign. il Nat Pet N 34:28 Ap 8 '42

Buildings

Town hall tonight; Fred Kistler, Kansas oil jobber, builds hall for welfare meetings. il Nat Pet N 34:30, 32 My 13 '42

Employees

Continuous management training plan developed by Indiana jobber; Glenn oil co. il Nat Pet N 34:27, 30+ F 25 '42

Wartime marketing management. Nat Pet N 34:34+ My 27 '42

Equipment

Marketing equipment released by M-68-c. Nat Pet N 34:3, 7-9 Mr 25 '42

Finance

Net income for 32 companies up 40.4 per cent in 1941 over preceding year. F. J. Sansone. Oil & Gas J 41:41-3 My 28 '42

Oil companies report 1941 earnings. Nat Pet N 34:32-3 Je 3 '42

Oil companies report on 1941 operations. Nat Pet N 34:32-4 Mr 18 '42

Management

Advertising is the A in oil jobber's ABCs; Rice oil co. il Nat Pet N 33:25, 28-9+ D 10 '41

Continuous management training plan developed by Indiana jobber; Glenn oil co. il Nat Pet N 34:27, 30+ F 25 '42

Four-fisted management plan builds Indiana jobber's sales. il Nat Pet N 34:32-5 Ja 28 '42

Home town advertising pulls 'em in for Pacific Northwest oil jobber; Maxwell petroleum corp. V. B. Guthrie. il Nat Pet N 34:29, 32+ Ja 21 '42

Improved truck operation adds to jobbers' profits. il Nat Pet N 33:24, 26 D 3 '41

Jobber develops own management plan to handle over 1500 non-oil items; Dayton plan. il Nat Pet N 33:27-8, 32, 36+ D 17 '41

Oil management and war; Williams oil co. il Nat Pet N 34:27, 30, 32+ F 18 '42

On-the-spot decisions; they save Montana marketer's tires and manpower; H. Earl Clack co. V. B. Guthrie. il Nat Pet N 34:23-4, 26-7, 30 Ja 28 '42

Thumbs up attitude characterizes Missouri jobber's wartime planning. il Nat Pet N 34:28, 30+ Mr 4 '42

Wartime marketing management. Nat Pet N 34:34+ My 27; 31-2 Je 3; 29-30 Je 10; 28+ Je 17; 40-1 Je 24; 25 Jl 1 '42

Safety measures

How to set up organization for accident prevention. Nat Pet N 34:30, 32-4 Jl 1 '42

Securities

See also Petroleum industry and trade—Securities

Side line selling

Ready for rationing; Indiana jobber digs in with rationing insurance lines. il Nat Pet N 34:28, 30-2 S 23 '42

Wartime marketing management. Nat Pet N 34:25 Jl 1 '42

OIL containers

Broad changes in oil marketing practices foreseen in OPC's metal container plans. Nat Pet N 33:3 D 31 '41

Cans without metal. Sales Management 51:21 S 15 '42

Fibre cans that hold oil developed by Macmillan petroleum corp. il Mod Packaging 16:52-3+ O '42

Noncritical materials used in producing two new packages for petroleum products. Oil & Gas J 41:61 O 8 '42

Plans drafted standardizing containers used in industry. H. D. Ralph. Oil & Gas J 40:25 Ja 1 '42

Price ceiling on used drums again revised. Nat Pet N 34:7 F 4 '42

Tinless tin cans; all-fiber plastic-lined container, impervious to oil. R. S. Macmillan. Paper Tr J 115:21 S 10 '42

WPB bans use of metal cans for packing civilian lubes. Nat Pet N 34:15 S 9 '42

Wartime container plans bring marketing changes. Nat Pet N 34:8 Ap 22 '42; Same. Chem Ind 50:651-2 My '42

See also

Oil cans

Cleaning

Cleansing of oil containers. K. S. Low. Chem Age (Lond) 46:317 Je 27 '42

Revolving churn cleans oil drums. il Elec W 118:160+ Jl 11 '42

OIL delivery

How to install the degree day system after heating oil season has started. Nat Pet N 33:20+ N 19 '41

See also

Tank trucks

OIL distillation

Java citronella oil. E. Guenther. il Soap & San Chem 18:25-8, 69-70 Mr '42

Refinoil method of lubricant treatment. flow chart il Diesel Power 20:929+ N '42

See also

Petroleum distillation

OIL engines. See Diesel engines; Gas and oil engines

OIL films

Comparative study of oils for supplemental protection of black oxide coatings on steel. E. A. Parker and A. K. Graham. Metal Finishing 40:363-4+ Jl '42

Salt spray evaluation of oiled black oxide coatings on steel. A. K. Graham. Metal Finishing 40:254-5 My '42

OIL filters

Briggs filter medium; long-fibered cellulose. il Diesel Power 20:754+ S '42

OIL filters—*Continued*

Build filter plant into 1½-ton truck. P. W. Meinhardt. il diags Elec W 117:94+ Ja 10 '42

Oil salvage; filtration plant. Electrician 129: 92 Jl 24 '42

Philips magnetic oil filter. diags Mech Eng 63:908-9 D '41

Refinoil method of lubricant treatment. flow chart il Diesel Power 20:929+ N '42

OIL filters, Automobile

Oil filters. U. B. Bray. Diesel Power 19:1050-1 D '41; Same. Automobile Eng 32:61 F '42

OIL fires

Domestic oil burners; keep an extinguisher handy. W. E. Rossnagel. il Nat Safety N 46:74+ O '42

Foam directory provides for pooling supplies in oil fire emergency. G. A. Lexander. Nat Pet N 34 pt2:R207 Jl 29 '42

Group session on fire protection. C. E. Townsend and others. Am Pet Inst Proc 22(1):45-56 '41

Mixing chamber for tank fire fighting. il Blast F & Steel Pl 30:472 Ap '42

Mobile water spray fire-fighting unit. il Elec W 117:1546 My 2 '42

Standards for special oil fire extinguishing systems revised at NFPA meeting. Nat Pet N 34:R168 My 27 '42

See also Petroleum industry and trade—Fires and fire protection

OIL flow

Engineering economics of long petroleum pipelines; with cost data. E. G. Hill. map Nat Pet N 34:R69-70, R72-4, R76-7 Mr 4 '42; Same cond. Oil & Gas J 40:45-7 F 12 '42

Flow of gas-oil mixtures through media of uniform permeability. P. J. Jones. Oil & Gas J 41:34-5 Jl 2 '42

Flow of gas-oil-water mixtures through media of uniform permeability. P. J. Jones. diags Oil & Gas J 41:25 Jl 9 '42

Flow of homogeneous fluids through linear systems. P. J. Jones. Oil & Gas J 41:53-4 Je 4 '42

Flow of homogeneous fluids through radial systems. P. J. Jones. Oil & Gas J 41:35-7 Je 11 '42

Flow of oil-water mixtures though media of uniform permeability. P. J. Jones. Oil & Gas J 41:197-8 Je 25 '42

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38: 493-530 Je '42

Measurement of greaseproofness. E. A. Georgi and P. Nolan. il diags Paper Tr J 115:33-40 S 10 '42

Mechanism of flow of fluids through orifices; discussion of paper by J. M. Naiman. J. T. Cortelyou. Oil & Gas J 40:58-9, 61 D 11 '41

Simplified heat transfer correlation for semiturbulent flow of liquids in pipes. R. H. Norris and M. W. Sims. bibliog diags Am Inst Chem Eng Trans 38:469-90; Discussion. 490-2 Je '42

Viscosity and surface tension effects on V-notch weir coefficients. A. T. Lenz. bibliog il diags Am Soc C E Proc 68:351-74 Mr '42

OIL freighters, inc.

27 Carolina jobbers join to form trucking company. Nat Pet N 34:22 Ap 15 '42

OIL fuel

Believes Diesels and synthetic oils preclude Nazi defeat for lack of fuel. B. B. Williams. Steel 111:57 Jl 20 '42

Coal equivalent of other fuels and power. Ry Mech Eng 116:487-9 N '42

Creosote oil as a fuel in compression ignition engines. R. J. Bramhall. Gas J (Lond) 236:390+ D 10 '41

Determining fuel oil heat losses. W. F. Schaphorst. chart Pet Eng 13:127 Je '42

Fuel oil heaters. E. G. Roberts. diags Power Pl Eng 46:67-9 Mr; 73-5 Ap; 63-4 Je '42

Heating oil shortage ahead. Barron's 22:5 Je 8 '42

Petroleum industry committee for district 2 takes unqualified stand against curtailment. F. Phillips. Oil & Gas J 41:32-3 My 28 '42

Presidential address; oil. F. H. Rogers. il diag Inst Chem Eng Trans 18:10-18 '40

Replacement of natural gas by oil fuel; abstract. E. S. Hammond. Cer Ind 39:54+ O '42

Standby systems solve fuel problem for two different glass plants; Fostoria glass co. uses butane-propane gas; Imperial glass co. uses oil. il Cer Ind 39:34-6 S '42

What coal equivalents do to fuel performance records; report of Fuel and traveling engineers' committee. Ry Age 113:692-3+ O 31 '42; Same. Ry Mech Eng 116:487-9 N '42

See also

Automobile engines—Fuel
Boilers—Oil firing
Boilers, Heating—Oil firing
Coal liquefaction
Diesel engines—Fuel
Gas and oil engines—Fuel
Gasoline
Liquid fuel
Motor truck engines—Fuel
Oil bulk stations
Oil burners
Oil fuel industry
Petroleum refineries—Fuel
Tractors—Fuel

Conservation

Check lists for saving oil. Heat & Ven 39:54-5 O '42

How to save fuel oil; in factory heating, heat treatment, etc; prepared by staff of Socony-Vacuum oil company. il Factory Management 100:99-104 Je '42

Insulation, here's another aid to fuel conservation. Dom Eng 159:33+ Je '42

Start war on fuel waste now; meeting sponsored by the War service committee of the American society of heating and ventilating engineers. Heating-Piping 14:498, 526 Ag '42

Manufacture

Additions to gasoline plant diversify output; Arkansas fuel oil company produces blended motor fuel, kerosine, Stoddard solvent, absorption oil, and fuel oil. D. Attaway. il Pet Eng 13:34, 36, 38 D '41

Means of improving ignition quality of Diesel fuels. E. M. Nygaard, G. S. Crandall and H. G. Berger. Inst Pet J 27:348-68 O '41

Midget refinery processes crude from pipelines into fuel for pumping station engines. diag Nat Pet N 34 pt2:R206-7 Jl 29 '42

New still adds efficiency to Lago Venezuela plant. il Oil & Gas J 40:151 D 25 '41

Refiners adjusting yields to provide more fuel oils. H. S. Norman. Oil & Gas J 40:71 Ap 30 '42

Refiners may be forced to increase fuel-oil yields. H. S. Norman. il Oil & Gas J 40:68 Mr 26 '42

Prices

Fuel oil prices. Published in weekly numbers of Iron age

Rationing

Commercial, institutional, and industrial buildings must convert to coal if facilities are available. P. M. O'Leary. Heating-Piping 14:620 O '42

Coupon note system set up for deliveries of fuel oil. Nat Pet N 34:10 O 7 '42

Fuel oil. Arch Forum 77:172+ S '42

Fuel oil ration rules issued. Comm & Fin Chr 156:1268 O 8 '42

Fuel-oil rationing in 30 states. Sheet Metal Worker 33:32+ O '42

Fuel-oil rationing set up for thirty states. map Coal Age 47:61-2 O '42

Fuel oil to be rationed beginning October 1; areas may later be extended. Comm & Fin Chr 156:983 S 17 '42

Fuel rationing is here. il Dom Eng 160:36-7, 62+ O '42

Fuel situation. maps Heat & Ven 39:61-4 O '42

Home fuel oil users to receive about 66⅔% of normal supply; five heating periods fixed. Comm & Fin Chr 156:1172 O 1 '42

How to figure your fuel ration. Business Week p14 O 17 '42

OIL fuel—Rationing—*Continued*

Making hit with oilburnerites; insurance agents mail worksheet to oil users. il Nat Underw 46:16 O 15 '42; Spectator (Property ed) 8:32 O 15 '42; Weekly Underw 147:920-1 O 17 '42

Medical and public health aspects of heating oil rationing. L. D. Bristol. Heating-Piping 14:627-30 O '42

OPA establishes regulations controlling use of fuel oil. Oil & Gas J 41:20 O 29 '42

OPA may use dealer records in fuel oil rationing plans. Nat Pet N 34:3+ S 23 '42

OPA outlines program for fuel oil rations; industrial conversion lags. Nat Pet N 34:9-10 O 21 '42

OPA to limit fuel oil use by one third. Nat Pet N 34:3+ S 30 '42

OPA's four heat zones for fuel oil rationing; map. Nat Pet N 34:9 S 30 '42

OPA's oil fuel coupon plan. Nat Pet N 34:6 Ag 19 '42

Plans made for fuel-oil rationing on East coast. H. D. Ralph. Oil & Gas J 41:25 Ag 20 '42

Rationed fuel oil. map Business Week p17 S 26 '42

Rationed nation. Business Week p14 O 3 '42

Rationing formula cuts deep. map Dom Eng 160:38-9+ O '42

Rationing no easy problem for OPA officials. Steel 111:36-7 O 26 '42

Rationing of fuel oil may be indicative of acute shortage. map Oil & Gas J 41:67 S 24 '42

War on fuel waste. B. M. Woods. map Heating-Piping 14:699-701 N '42

Washington takes the lead on conversion; U.S. senators make special statements. il Dom Eng 160:40-1+ O '42

Specifications

Army specifications call for three basic Diesel fuels. Oil & Gas J 40:27 N 13 '41

Performance characteristics and specifications of Diesel fuel oil. W. L. Nelson. bibliog Oil & Gas J 41:47+ S 17 '42

Storage

Fuel oil tank salvaged, re-erected. diags Elec W 117:2258+ Je 27 '42

Testing

Cetane-number study of Diesel fuels. W. G. Ainsley, H. D. Young and M. L. Hamilton. bibliog diags S A E J 50:160-8; Discussion. G. H. Cloud. 168 Ap '42

Diesel-fuel performance. R. S. Wetmiller and L. E. Endsley, jr. Oil & Gas 41:53 Ag 27 '42

Transportation

Aim for million-barrel mark in rail hauls to East coast; ODT studies role trucks will play; barge conversion plans announced. Nat Pet N 34:34 Ag 5 '42

Eastern marketer brings in own fuel oils barged from Gulf, trucked from Pittsburg; Shotmeyer bros. petroleum co. il Nat Pet N 34:22-3 Je 17 '42

Fuel oil flow cuts gasoline movement; program designed to increase heavy fuel oil supplies in the East. Comm & Fin Chr 155:1866 My 14 '42

Fuel-oil quotas for East are filled. H. S. Norman. Oil & Gas J 40:14-15 Ap 9 '42

Industry tackles problem of supplying East with fuel oil. J. P. O'Donnell. il Oil & Gas J 40:10-11 Ap 2 '42

Mid-West rationing to free transportation urged at Senate inland waterway hearings. Nat Pet N 34:24 Je 17 '42

OPC delegates power to relieve fuel-oil crisis. Oil & Gas J 41:33-5 My 14 '42

OPC schedules 600 tank cars of fuel daily to East coast. Oil & Gas J 41:22 O 29 '42

See also
Tank trucks

OIL fuel industry

Appeal from FDR launches new switch-to-coal drive. Nat Pet N 34:5-6 Ag 5 '42

California quotas adjusted to yield maximum fuel oil. S. Fox. il Oil & Gas J 41:20-1 S 10 '42

Coal for oil; old competitors cooperating and WPB easing the change. Business Week p16-17 My 16 '42

Companies rush aid in East's fuel crisis. il Nat Pet N 34:3-4 Mr 4 '42

Complete text of WPB's amendment 3 to fuel oil limitation order L-56. Nat Pet N 34:34 S 23 '42

Eastern fuel oil suppliers meet in wartime atmosphere; 7th annual convention of the Fuel oil distributors association of New Jersey. Nat Pet N 34:14 Ap 22 '42

East's fuel oil deliveries halved, WPB points switch to coal. Coal Age 47:47 Je '42

Fighting the fuel oil shortage by conversion. N. Foulds. Heating-Piping 14:561-3 S '42

Fuel oil and burner restrictions tighten. map Heat & Ven 39:58 Je '42

Fuel oil deliveries in curtailment areas cut 50%; banned to new units in Mid-West; text of order. Nat Pet N 34:8-9 My 20 '42

Fuel oil problem. F. H. LaGuardia. Heating-Piping 14:559-61 S '42

Fuel-oil quotas for East are filled. H. S. Norman. Oil & Gas J 40:14-15 Ap 9 '42

Fuel oil situation in the East; with chart showing relative ease of converting the East's oil burners to coal. Heat & Ven 39:46 Jl '42

Fuel situation along the eastern seaboard. map Heat & Ven 39:31-4 Ag; 59-60 S '42

Government opens drive on conservation, conversion. il map Dom Eng 160:60-1+ Ag '42

How to install the degree day system after heating oil season has started. Nat Pet N 33:20+ N 19 '41

Ickes hopes to avoid rationing of fuel oil, but Henderson prepares blue print anyway. Nat Pet N 34:5 Ag 19 '42

Industry tackles problem of supplying East with fuel oil. J. P. O'Donnell. il Oil & Gas J 40:10-11 Ap 2 '42

L-56 restricts fuel oil use to 50 per cent in East and Northwest. Dom Eng 159:30+ Je '42

OPC delegates power to relieve fuel-oil crisis. Oil & Gas J 41:33-5 My 14 '42

OPC recommendation bans contracts on heating oil. Nat Pet N 34:8 Ap 29 '42

Oil, meat rations. Business Week p14 S 5 '42

Oil situation grows more critical; conversion and coal use pushed. Coal Age 47:45+ Ag '42

Rationing of fuel oil may be indicative of acute shortage. map Oil & Gas J 41:67 S 24 '42

Satisfaction of minimum East Coast demand is in sight, PIWC hears. H. D. Ralph. Oil & Gas J 41:20 S 3 '42

Survey shows few easterners have converted to burn coal. Nat Pet N 34:8 Ag 12 '42

To build up fuel oil stocks, deliveries halted. Comm & Fin Chr 156:465 Ag 6 '42

War's impact bears heavily on Nation's oil jobbers. J. W. Frey. Nat Pet N 34:27+ S 30 '42

Statistics

Abrupt refinery adjustments reflect swing to fuel oils. H. S. Norman. map Oil & Gas J 41:8-10 S 3 '42

Armed forces absorb most oil withdrawn from civilian use. H. S. Norman. Oil & Gas J 41:22-3 O 8 '42

1940 fuel oil sales up 9%; burners up 13%. Nat Pet N 33:10 N 19 '41

1940 oil sales up 18% over 1939, Bureau of mines reports. Heat & Ven 38:58 D '41

U.S. fuel oil stocks 20% higher than last year; degree days lag. Nat Pet N 33:40, 42 D 17 '41

OIL gas. See Gas, Oil

OIL gear systems. See Hydraulic transmission

OIL handling

Centralized oil distribution; Union drawn steel division of Republic steel corp. il diag plan Iron Age 150:56-62 O 22 '42

OIL handling—*Continued*

New oil distribution system cuts consumption, helps maintenance; Republic steel corporation. il diag Heating-Piping 14:653-6 N '42

Pipelines for shop oils; oil distribution system at Gary plant of Republic steel corporation. il plan Factory Management 100: 134-7 N '42

Proper handling and storing keeps good lubricants good. J. I. Clower. il diags Power 86:309-11 My '42

OIL heaters

Twenty years of progress in domestic oil heating. R. J. Bender. bibliog il diags Mech Eng 64:731-40 O '42

Cleaning

Cleaning fuel-oil heaters. Marine Eng 47:156+ Jl '42

OIL heating

Close temperature regulation pays dividends; Diesel engine heat used to heat oil for Kobe pumping unit. il Diesel Power 20: 579-81 Jl '42

Fuel oil heaters. E. G. Roberts. diags Power Pl Eng 46:67-9 Mr; 73-5 Ap; 63-4 Je '42

Immersion units up fuel oil temperature. il Elec W 116:1593 N 15 '41

Oil burner heats plane motors. Heat & Ven 39:21 Ap '42

Paraffin removal by heated oil; steam generator and heat exchanger used. T. P. Sanders. il diag Oil & Gas J 40:33-4 F 19 '42

Thermo-siphon heater for oil-field use. H. Vance and E. G. Smith. il diags Pet Eng 13:27-30 S; 14:103, 106, 108+ N '42

OIL heating institute of New England

Oil burner men in New England form new institute. Heat & Ven 39:68 O '42

OIL industries

British-U.S. sign fats, oils buying pact. Oil Paint & Drug Rep 142:66 O 5 '42

Fats and oils. Survey of Cur Business 22: 8-9+ Ag '42

Fats of the land; frothless soap and stickier paint among probabilities. Business Week p45-6+ My 23 '42

Fats, oils civilian quotas reduced. Oil Paint & Drug Rep 142:7+ N 2 '42

Fats, oils general licenses are cancelled. Oil Paint & Drug Rep 142:7 O 12 '42

Fats, oils importers association fostered by CCC. Oil Paint & Drug Rep 142:5+ S 21 '42

Fats, oils restricted to 90 days' supply. Oil Paint & Drug Rep 141:3+ Ja 5 '42

Industrial utilization of oils and fats. P. Turner. Can Chem & Process Ind 26:336-8 Je '42

Oils and fats quota system setup by CCC. Oil Paint & Drug Rep 142:3+ S 28 '42

Oilseed processing problems. Barron's 22:6 N 9 '42

United States and United Kingdom: purchasing agreement. For Comm W 9:30 O 31 '42

See also

Fish oil
Gasoline industry
Gasoline service stations
Kerosene
Linseed oil
Lubricating oil industry
Oil companies
Oil fuel industry
Oils and fats
Olive oil
Petroleum industry and trade
Textile oils
Tung oil

Statistics

American balance sheet in oils and fats. W. J. Murphy. il diag map Chem Ind 50: 476-85, 618-26, 768-77 Ap-Je '42

Fats and oils, 1941. Chem & Met Eng 49:98-101 F '42

Africa

Vegetable oils; Africa important as a supplier of world markets. Can Chem & Process Ind 26:20-1 Ja '42

Brazil

Brazil's curua nuts. For Comm W 8:26 S 5 '42

Exports of oils, oilseeds, and waxes from Brazil, 1940 and 1941. For Comm W 7:25 My 9 '42

Industrial oil that grows at the river's edge. W. N. Small. il For Comm W 8:10-11+ Jl 11 '42

Oil-nut odyssey; U.S. vegetable-oils mission explores Brazil's potentialities. D. R. Crone. il map For Comm W 7:3-5+ Je 13 '42

Oils from Brazil Can Chem & Process Ind 26:408 Jl '42

Progress of vegetable oil industry in Brazil. C. E. Nabuco de Araujo, jr. News Ed 19: 1413-14 D 10 '41

Roads for Maranhao seen as the key to increased South American babassu production. J. B. Gordon. il Soap & San Chem 18:23-5+ Jl '42

Vegetable oil data on Brazil; summary of report of United States vegetable oil mission. Oil Paint & Drug Rep 142:42+ Ag 31 '42

Vegetable oil promotion in Brazil by U.S. urged. Oil Paint & Drug Rep 142:7+ Ag 24 '42

Vegetable oils of Brazil. J. B. Gordon. il Soap & San Chem 18:19-22, 69-70 Ag '42

Cuba

Cuban imports of lard and oils. For Comm W 7:27 My 2 '42

Cuban imports of the principal oils and fats. For Comm W 6:20-1 Mr 14 '42

News by commodities. For Comm W 6:24 Ja 3 '42

French West Africa

French Africa's variety of oils. For Comm W 8:28-9 Jl 4 '42

India

Indian oilseeds crops; studies new uses. For Comm W 7:30 Je 27 '42

News by commodities. For Comm W 6:22-3 F 14; 7:27 My 2 '42

Oil, fats, and oilseeds; Indian markets. For Comm W 8:31 Jl 11 '42

Situation at Bombay. For Comm W 7:26-7 My 30 '42

Latin America

Vegetable oils that U.S. needs from American tropics. K. S. Markley. Oil Paint & Drug Rep 142:7+ Jl 27; 7+ Ag 3; 7+ Ag 10; 7 Ag 17; 7+ Ag 24 '42

Mexico

Mexico's oil-and-fat shortage and resources. For Comm W 7:23-4 My 16 '42

New Zealand

New Zealand's new enterprises. For Comm W 8:23 S 19 '42

United States

American balance sheet in oils and fats. W. J. Murphy. il diag map Chem Ind 50: 476-85, 618-26, 768-77 Ap-Je '42

Uruguay

Substitute crops in Uruguay. For Comm W 9:28-9 O 3 '42

Uruguay linseed, sunflower, and peanut oil. For Comm W 6:21-2 Mr 14 '42

OIL lands

Accounting for leasehold costs in the petroleum industry. L. C. Haynes. J Account 73:327-39 Ap '42

Consolidation and unitization save huge sums for operators. Oil & Gas J 41:53 Ag 6 '42

Valuation

Notes on appraisals. D. Donoghue. Am Assn Pet Geologists Bul 26:1283-9 Jl '42

Oil property valuation. P. Paine. 204p $2.75 Wiley '42

OIL leases. See Oil lands

OIL measurement

Expansion of crude petroleum, petroleum products and allied substances. Inst Pet J 27:402-17 N '41

OIL measurement—*Continued*
Outage table for tank cars and domes. P. C. Ziemke. Diesel Power 19:1054-5 D '41
Progress report on volumeter research. R. J. S. Pigott. Am Pet Inst Proc 22(4):54-5 '41

OIL meters
Money saved through use of oil-production meters; with cost data. Oil & Gas J 41:51 Ag 13 '42
Small-capacity meters used to gage well productivity. H. F. Simons. il Oil & Gas J 40:62+ F 26 '42
Steel, oil and labor saved by using recording meters to measure oil; abstract. L. R. Van Arsdale. Science 95:sup8+ Mr 27 '42
Wartime conservation of meters calls for periodic inspection. H. G. Smith. diags Nat Pet N 34:34-5 Ag 12 '42

OIL pipe lines
Centralized oil distribution; Union drawn steel division of Republic steel corp. il diag plan Iron Age 150:56-62 O 22 '42
See also
Gasoline pipe lines
Petroleum pipe lines

OIL pipes
Code for pressure piping. A. D. Sanderson. il Heating-Piping 14:157-8 Mr '42
New oil distribution system cuts consumption, helps maintenance; Republic steel corporation. il diag Heating-Piping 14:653-6 N '42
Pipelines for shop oils; oil distribution system at Gary plant of Republic steel corporation. il plan Factory Management 100:134-7 N '42

OIL pollution of rivers, harbors, etc.
Sea-birds killed by contact with floating oil; abstract. R. T. Peterson. Science 96:sup9 Ag 21 '42

OIL pumps
Factors affecting the volumetric efficiency of sucker-rod pumps. G. M. Stearns. diag Oil & Gas J 41:41-2 Je 11 '42
Gas and oil deliveries checked automatically; printing registers on fuel pumps; Boston elevated railway. il Transit J 85:429-31 N '41
Gerotor hand fuel-oil pump used by U.S. navy. il Marine Eng 47:111 Ja '42
Immersed-motor pump for power transformers. L. H. Burnham. il Gen Elec R 45:131 F '42
Powder metallurgy; oil pump gears. Automobile Eng 32:401 O '42
Safety oil pump base. T. L. Mino. diags Bus Transportation 21:331 Jl '42
Value of sound pump practices increased by emergency. il diags Oil & Gas J 40:136, 138+ Ap 30 '42
See also
Diesel engines—Fuel feeding
Petroleum—Pumping
Pumps, Fuel

OIL purification
See also
Oil filters
Oil reclamation
Oil refining
Petroleum refining

OIL reclamation
Is oil reclaiming practical? F. R. Speed. Bus Transportation 21:258-9 Je '42
Lubricant salvage. Rayon 23:487-8 Ag '42
Lubricating oil economy. Electrician 129:46 Jl 10 '42
Machine-shop operations; reclamation of waste. R. Bullard. flow diag il plan Mech Eng 64:457-8 Je '42
Reclaiming and using scrap materials; Wright aeronautical corporation. W. W. Finlay. Mech Eng 64:25-7 Ja '42
Reclaiming cutting oils and chips; the Bullard company, Bridgeport, Conn. E. D. Bullard. il Factory Management 100:107-8 Ag '42
Reclamation of used lubricants. E. M. Leahey. Pulp & Pa of Can 43:37-8 Ja '42
Recovery of lubricating oil; economical filtration system. Chem Age (Lond) 46:302 Je 20 '42
Refinoil method of lubricant treatment. flow chart il Diesel Power 20:929+ N '42
Used oil from crankcases reclaimed in mobile unit. Sci Am 166:141 Mr '42
See also
Oil filters

OIL refining
Electrical stability of mineral-oil-treated dielectrics; influence of refining technique. F. M. Clark and E. L. Raab. bibliog Ind & Eng Chem 34:110-16 Ja '42
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
Oils and fats refined successfully by Clayton process; abstract. M. Mattikow. Soap & San Chem 18:59-60 Jl '42
Phosphatides from soybean oil. M. H. Thornton and H. R. Kraybill. bibliog Ind & Eng Chem 34:625-8 My '42
Small oil-bleach plant; abstract. N. G. Weir. Soap & San Chem 18:71 N '42
War time problems of the soap maker. A. P. Lee. il Soap & San Chem 18:23-6+ Je '42
See also
Lubricating oils—Manufacture
Oil filters
Oil reclamation
Petroleum refining

OIL reservoirs
Recovery of gasoline stored in laboratory crude reservoirs. H. Vance and P. Martin. il Oil & Gas J 41:33-4 Jl 23 '42

OIL sands
Rapid methods of making sedimentological studies of sands, especially as applied to cores; abstract. W. D. Pye. Oil & Gas J 40:59 Ap 23 '42

OIL separators
See also
Oil filters
Oil reclamation

OIL shales
Oil-shale development may be possible at this time. H. G. Slusser. Oil & Gas J 40:96+ F 26 '42

Analysis

Composition of the ash of Tasmanian spore shale. G. W. Himus and S. Rudrakanchana. Inst Pet J 27:446-7 D '41
Preliminary study of the chemical constitution of kerogen. A. L. Down and G. W. Himus. bibliog diag Inst Pet J 27:426-45 D '41

Bibliography

Oil shale. (Petroleum bibliog. 1) 8p Tulsa public lib., Technical dept., Tulsa, Okla. '41

Distillation

Technical study of Transvaal torbanite. S. L. Neppe. diags Inst Pet J 27:31-65 bibliog(41 references, p64-5); 28:104-8 F '41, Je '42

Sweden

Sweden's shale oil. For Comm W 8:31 Jl 18 '42

Transvaal

Technical study of Transvaal torbanite. S. L. Neppe. diags Inst Pet J 27:31-65 bibliog(41 references, p64-5); 28:104-8 F '41, Je '42

OIL storage
Efficient arrangement of lease tank battery. il Pet Eng 13:102 D '41
Protection of oil storage from bombs difficult. J. P. O'Donnell. il Oil & Gas J 40:39 Mr 12 '42
See also
Oil tanks

OIL tankers. See Tank ships

OIL tanks
Automatic tank-battery control simplifies lease operation. H. F. Simons. il diags Oil & Gas J 40:227-8 Mr 26 '42
Concrete bottoms in rundown tanks solve light-oil corrosion problems. J. M. Vyn. diag Oil & Gas J 40:157 Ap 30 '42
Design of gun-barrel tanks for oil-water separation. F. B. Gordon. diags Oil & Gas J 40:71 Ap 23 '42

OIL tanks—*Continued*

Design of oil-field tank batteries for conservation. R. M. Stuntz, jr. il diags Mech Eng 64:355-60 My '42
Determining proper heights for boot and siphon on gun barrel. G. M. Stearns. diag Oil & Gas J 40:53 Ap 9 '42
Fuel oil tank salvaged, re-erected. diags Elec W 117:2258+ Je 27 '42
Internal corrosion chief enemy of storage equipment. diag Oil & Gas J 40:177-8 Ap 30 '42
Keep busy with precast concrete tanks for storage of fuel oil. diags Concrete 50:16-17 Je '42
Proper installation prolongs useful life of tanks. diag Oil & Gas J 41:54 O 22 '42
Tank built with horizontal staves. il Eng N 129:640 N 5 '42
Vent valves on lease tanks pay for themselves quickly. Oil & Gas J 40:55 Mr 19 '42

See also
Tank cars
Tank ships
Tank trucks

Failure

Welded tank accident proves advantages of arc-welded construction. H. P. Rigsby. il diag Welding J 21:41 Ja '42

Painting

Effective camouflage as means of protecting oil property. K. J. Keating. il Oil & Gas J 40:225-6 Mr 26 '42

Protection

Cathodic protection of tank farms. R. A. Brannon. plan Pet Eng 13:92, 94-6 S '42
Protection of oil storage from bombs difficult. J. P. O'Donnell. il Oil & Gas J 40:39 Mr 12 '42

Repair

New bottoms for oil tanks. E. G. Woolman. diags Sheet Metal Worker 33:29 O '42
Reconditioning oil tanks by simplified arc welding method. diags Steel 110:96 Ap 20 '42
Repairing storage tanks. R. Wagner. diags Welding J 21:173-4 Mr '42

Standards

Report of A.P.I. subcommittees of the committee on the standardization of steel tanks for oil storage. Am Pet Inst Proc 22(4): 176-90 '41

OIL testing

Aniline point determinations with dark-colored oils; a circulating test tube. A. A. Williams and E. W. Dean. diags Ind & Eng Chem Anal ed 14:63-4 Ja 15 '42
Development of a capillary viscometer to measure viscosities in excess of 10 poises. A. H. Nissan. diags Inst Pet J 28:41-56, pl 1-2 Mr '42
Optical rotation of petroleum fractions. M. R. Fenske and others. bibliog Ind & Eng Chem 34:638-46 My '42

See also
Lubricating oils—Testing
Oil, Insulating—Testing
Oil fuel—Testing
Viscosity—Measurement

OIL to coal conversion. See Coal burning equipment

OIL transportation

Diesel towboat "Tri-State." il Marine Eng 47:128-30 Jl '42

See also
Tank cars
Tank ships
Tank trucks

OIL wells. See Petroleum—Well drilling

OILINESS. See Lubrication and lubricants

OILS, Cutting. See Lubrication and lubricants (cutting and grinding)

OILS, Lubricating. See Lubricating oils

OILS, Road. See Road oils

OILS, Sulfonated. See Sulfonated oils

OILS and fats

AAA program amended to increase war crops. Comm & Fin Chr 155:954 Mr 5 '42
American balance sheet in oils and fats. W. J. Murphy. il diag map Chem Ind 50: 476-85, 618-26, 768-77 Ap-Je '42
Antioxidants and autoxidation of fats; the isolation of new antioxidants from vegetable fats. C. Golumbic. bibliog Am Chem Soc J 64:2337-40 O '42
Approximate computation of mixed glycerides present in natural fats from the proportions of their component fatty acids. T. P. Hilditch and M. L. Meara. bibliog Soc Chem Ind J 61:117-25 Ag '42
Axis ransacks realm for vegetable oils. W. N. Small. il For Comm W 9:8+ O 3 '42
Chemistry of fat spoilage; influence of chlorophyll and xanthophyll; abstract. K. Taufel and R. Muller. Food Ind 14:106 Ag '42
Column for stripping solvents from extracted oils. F. H. Smith. diag Ind & Eng Chem Anal ed 14:255 Mr 15 '42
Comparative study of oils for supplemental protection of black oxide coatings on steel. E. A. Parker and A. K. Graham. Metal Finishing 40:363-4+ Jl '42
Effect of aniline point of oil on swelling of synthetic rubbers. A. C. Hanson. Ind & Eng Chem 34:1326-7 N '42
Expression of vegetable oils; general equation on oil expression. bibliog Ind & Eng Chem 34:342-5 Mr '42
Factory consumption of primary animal and vegetable fats and oils, by classes of products, calendar year 1941; table. Chem & Met Eng 49:120 Ap '42
Fat from the seashore near Parnaiba in Piaui, Brazil; abstract. C. Rolin. Chem & Met Eng 49:224-5 S '42
Fat salvage quotas. Soap & San Chem 18: 39+ O '42
Fats and oils affect belt materials. Power Pl Eng 46:97-8 Jl '42
Fats and oils: there's time to do a job; intelligent rationing, planned conservation can head off grave scarcities. il Fortune 25:68-71+ Ap '42
Fats of the land; frothless soap and stickier paint among probabilities. Business Week p45-6+ My 23 '42
Fats, oils, and oil-bearing materials in the United States. 51p U.S. Tariff commission, Washington '41
Fats supply up, but heavier demand looms. Barron's 22:6 Ag 10 '42
Fatty acids and glycerides of solid seed fats; Shorea robusta kernel fat. T. P. Hilditch and Y. A. H. Zaky. Soc Chem Ind J 61:34-6 F '42
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
Fractionated oils. S. E. Freeman. Oil Paint & Drug Rep 142:39 S 21 '42
French Africa's variety of oils. For Comm W 8:28-9 Jl 4 '42
Hydrogenation of oils; abstract. G. M. Zhabrova. Chem Age (Lond) 46:318 Je 27 '42
Industrial utilization of oils and fats. P. Turner. Can Chem & Process Ind 26:336-8 Je '42
New tinning oils investigated. W. E. Hoare. Iron Age 149:69 Mr 26 '42
Nuts, beans, seeds and oil; situation in oils and fats. Sci Am 166:236 My '42
Oil-nut odyssey; U.S. vegetable-oils mission explores Brazil's potentialities. D. R. Crone. il map For Comm W 7:3-5+ Je 13 '42
Oil on the bush; providing industry with import substitutes. Business Week p30-2 Ap 4 '42
Oils and fats imports procedure specified. Oil Paint & Drug Rep 142:7+ Ag 24 '42
Oils from fruit pits and stones. Science 96:sup10-11 Ag 28 '42
Oilseed processing problems. Barron's 22:6 N 9 '42
Outlook for fats and oils. Barron's 22:6 S 7 '42

OILS and fats—*Continued*

Paint aplenty; industry's adjustments to war curtailment of materials. Business Week p20+ O 17 '42

Rapid method of measuring the unsaturation of hydrogenated fats. H. Jasperson. bibliog Soc Chem Ind J 61:115-16 Jl '42

Recovery of fats, waxes, resins, and turpentine from wood. M. W. Bray. bibliog Paper Tr J 115:41-2 S 3 '42

Replacing the coconut; South American nuts a solution. Barron's 22:5 F 9 '42

Salting out; a discussion of suggested changes in usual soap making practice when using low grade fats and hard water. A. Treffler. il Soap & San Chem 18:24-6 Ja '42

Seed fat of litsea longifolia Bth. & Hk. R. Child and W. R. N. Nathanael. Am Chem Soc J 64:1079-81 My '42

Separation of fats; abstract. M. E. Buehrer. Chem & Met Eng 49:178 O '42

Shortening; animal and vegetable fats. il Can Chem & Process Ind 26:73-7 F '42

Some tests on quenching oils. T. F. Russell. Metal Prog 40:800+ N '41

Specific gravity of petroleum oils by the falling drop method. A. J. Hoiberg. bibliog diag Ind & Eng Chem Anal ed 14:323-5 Ap 15 '42

Spreading of oils on water; spreading pressures and the Gibbs adsorption relation. W. A. Zisman. bibliog J Chem Phys 9:789-93 N '41

Stabilization of fats and fatty foods; abstract. H. S. Mitchell and H. C. Black. Can Chem & Process Ind 26:587 O '42

Story behind the fat salvage plan. il Soap & San Chem 18:28-9+ S '42

Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42

Tung oil substitutes. Oil Paint & Drug Rep 142:43-4 O 26 '42

U.S.-Canada sign pact on oil-bearing crops. Oil Paint & Drug Rep 141:7 Ap 20 '42

Use of soya lecithin will save scarce fats. J. Stanley. bibliog Food Ind 14:69-71 Jl '42

Vegetable oil products; allocation and other powers to Commodity credit corp. Comm & Fin Chr 156:816 S 3 '42

Vegetable oils of Brazil. J. B. Gordon. il Soap & San Chem 18:19-22, 69-70 Ag '42

Vegetable oils that U.S. needs from American tropics. K. S. Markley. Oil Paint & Drug Rep 142:7+ Jl 27; 7+ Ag 3; 7+ Ag 10; 7 Ag 17; 7+ Ag 24 '42

WPB restricts use of fats and oils. Comm & Fin Chr 156:1276 O 8 '42

What fats and oils restrictions mean; some effects on individual industries. Barron's 22:6 S 28 '42

What specifications for insecticide base oil? Soap & San Chem 18:87-90+ N '42

See also

Acids, Fatty
Avocado oil
Babassu oil
Cajeput oil
Castor oil
Catnip oil
Coal liquefaction
Coconut oil
Cotton oil
Cottonseed oil
Creosote
Drying oils
Embankments—Oil testing
Emulsions
Essential oils
Fish oil
Gas and oil engines—Fuel
Gas oil
Gasoline
Grapeseed oil
Lard
Lime oil
Linseed oil
Lubricating greases
Lubricating oils
Lubrication and lubricants
Mustard oil
Nujol
Oil, Insulating
Oil fuel
Oiticica oil
Oleomargarine
Olive oil
Orange oil
Palm oil
Peppermint oil
Petroleum
Pine oil
Po-yoak oil
Rancidity
Road oils
Soybean oil
Tall oil
Textile oils
Tung oil
Viscosity
Wool fat

Prices

Corn, peanut, soybean oils prices ceiled. Oil Paint & Drug Rep 142:3+ S 28 '42

Fats and oils ceiling revised to October 1 price basis. Oil Paint & Drug Rep 141: 3+ Ja 5 '42

OPA sets price schedule for imported oils and fats. Oil Paint & Drug Rep 142:3+ Jl 20 '42

OPA to list prices for 125 oils, fats. Oil Paint & Drug Rep 141:3+ Ap 27 '42

Statistics

Animal and vegetable fats and oils consumption in factory production by classes of products reported for 1941. Oil Paint & Drug Rep 141:41 Mr 23 '42

Exports of oils, oilseeds, and waxes from Brazil, 1940 and 1941. For Comm W 7:25 My 9 '42

Factory consumption of primary animal and vegetable fats and oils, by classes of products, during the first six months of 1942. Soap & San Chem 18:73 N '42

Factory production and consumption, and factory and warehouse stocks of animal and vegetable fats and oils, quarter ending June 30, 1942 and 1941. Chem Ind 51:529 O '42

Fats and oils. Survey of Cur Business 22: 8-9+ Ag '42

Fats and oils consumption for first six months of 1942. Oil Paint & Drug Rep 142: 77 O 5 '42

Fats and oils, 1941. Chem & Met Eng 49:98-101 F '42

More fats and oils needed; developments in the field of commodities. Barron's 22:6 Ap 20 '42

Oils and fats statistics; fourth quarter. Oil Paint & Drug Rep 141:45 F 16 '42

Oils and fats statistics, first quarter. Oil Paint & Drug Rep 141:51 My 11 '42

Oils and fats statistics, second quarter. Oil Paint & Drug Rep 142:47 Ag 10 '42

Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter

Oils, fats, and waxes, 1941. Oil Paint & Drug Rep 141:77-80 Ja 12 '42

Report 2nd quarter oil and fat statistics. Soap & San Chem 18:115 S '42

Soap fat use at new high level in 1941. Soap & San Chem 18:31+ Ap '42

What war has done to fats and oils supply. G. W. McBride. Food Ind 14:57-9 F '42

See also

Oil industries—Statistics

OILWELL drilling contractors, American association of. See American association of oilwell drilling contractors

OINTMENTS

Cod liver oil ointment in surgery. R. H. Aldrich. bibliog il Ind Med 11:153-7 Ap '42

Cod liver oil ointment with sulfonamides in wounds and osteomyelitis. S. J. Wolferman and W. F. Adams. Ind Med 11:318-19 Jl '42

New base for the protective ointment for the prevention of poison ivy dermatitis. L. Schwartz, J. E. Dunn and F. H. Goldman. Pub Health Rep 57:578-88 Ap 17 '42

Paper boxes for ointments. il Mod Packaging 16:39 N '42

Poison ivy infection prevented by protective ointment. Sci Am 167:22 Jl '42

Seven million dollar itch; protective ointments relieve industrial dermatitis in plastic industries. J. Stifter. Mod Plastics 19: 51 D '41

OITICICA oil

Industrial oil that grows at the river's edge. W. N. Small. il For Comm W 8:10-11+ Jl 11 '42

OKLAHOMA

Oklahoma: a guide to the Sooner state. 442p bibliog(p422-6) $2.50 Univ. of Oklahoma press, Norman '41

See also

Geology—Oklahoma
Mines and mineral resources—Oklahoma
Petroleum—Oklahoma
Petroleum industry and trade—Oklahoma

OKLAHOMA CITY

Water supply

Dual water supply for Oklahoma City. il map Eng N 128:788-90 My 7 '42

OKLAHOMA CITY-Ada-Atoka railway

1000% increase in earnings before bond interest. Comm & Fin Chr 156:1517+ O 29 '42

OKLAHOMA natural gas company

Brief description. Pub Util 30:41-2 Jl 2 '42

OLD age

Care of the aged (geriatrics). M. W. Thewlis. 3d ed rev 579p $6 C. V. Mosby co, St Louis '41

Economic status of the aged and social programs for their support. E. L. Richie. U S Office of Educ Vocational Div Misc 2230-6:1-62 bibliog(p55-62) '40

Medical needs and care of the aged clients known to the Jewish social service bureau. B. L. Grossman. 18p Jewish social service bur, 15 Fernando st, Pittsburgh '42

Old folks at home; a study of the composition of the Aged case load of the Jewish social service bureau with particular emphasis on housing. B. L. Grossman. 22p Jewish social service bur, 15 Fernando st, Pittsburgh '41

Plea for an age movement. R. B. Perry. 23p 50c Vanguard press, New York '42

Social security figures on dependency of persons age 65 or over. Spectator (Life ed) 148:15 Mr 26 '42

See also

Age

Pensions, Industrial

Diseases

Internal medicine in old age. A. Mueller-Deham and S. M. Rabson. 396p $5 Williams & Wilkins '42

OLD age pensions

Beneficiaries covered under federal old-age and survivors program got $94,000,000 in 1941. R. L. Barbour. Ins Field (Life ed) 71:6 My 15 '42

Economics of social security. S. Harris. 455p $5 McGraw-Hill '41; Review (Social security and the economy). F. S. Doody. Mech Eng 64:132-3 F '42

Ham'n eggs again; old $30 every Thursday is up again in California. Business Week p16 Mr 21 '42

Higher pensions. Economist 143:104 Jl 25 '42

Old age benefits for bank employees. Banking 34:41 D '41

Old age pensions; an historical and critical study. A. T. Wilson and G. S. Mackay. 238p $4.50 Oxford '41

Problems and prospects of social security in Argentina. J. G. Galé. Int Labour R 45:483-92 My '42

Retirement benefits showed decline in 1941. Comm & Fin Chr 155:2046 My 28 '42

Social security for all. R. B. Robbins. Spectator (Life ed) 149:4-9+ O; 34-8, 56-63 N '42

Social security in the United States, 1941; a record of the 14th national conference on social security, New York, April 4-5, 1941; 187p $2 Am. assn. for social security, 2 E. 17th st, New York '41

Social security reserves. J. S. Parker. 340p bibliog(p310-33) $3.50; pa $3 Am. council on public affairs, Washington, D.C. '42

See also

Civil service pensions

Clergy—Pensions

Congressmen—Pensions

Insurance, Social

Pensions, Industrial

Railroads—Pensions

Social security act, 1935

Finance

Old-age security and the Treasury. G. B. Robinson. J Account 73:7-24 Ja '42

Our partitioned Treasury. G. B. Robinson. bibliog diag J Account 74:140-52 Ag '42

OLDER workers. See Age; Old age

OLDS, Leland, 1890-

Portrait. Gas Age 90:52 O 8 '42

OLEANIC acid

Sapogenins; the position of the double bond in acids of the β-amyrin group. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p532-4 S '42

OLEANOLIC acid

Sapogenins; the constitution of glycyrrhetic acid and its relation of oleanolic acid. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p535-9 S '42

OLEFINS

Carboxylation; the reaction of oxalyl chloride with unsaturated hydrocarbons. M. S. Kharasch, S. S. Kane and H. S. Brown. bibliog Am Chem Soc J 64:333-4 F '42

Catalytic polymerization of olefins in the presence of phosphoric acid. A. Farkas and L. Farkas. bibliog diag Ind & Eng Chem 34:716-21 Je '42

Conjugated diolefins by double bond displacement. A. L. Henne and A. Turk. bibliog Am Chem Soc J 64:826-8 Ap '42

Course of autoxidation reactions in polyisoprenes and allied compounds; the structure and reactive tendencies of the peroxides of simple olefins. E. H. Farmer and A. Sundralingam. Chem Soc J p121-39 F '42

Effect of silver ion coördination upon the Raman spectra of some unsaturated compounds. H. J. Taufen, M. J. Murray and F. F. Cleveland. bibliog Am Chem Soc J 63:3500-3 D '41

Halogenation of aliphatic hydrocarbons. G. Egloff and M. Alexander. bibliog Oil & Gas J 41:39-40+ Ag 27; 34-7 S 3 '42

Nitration of aliphatic hydrocarbons. G. Egloff, M. Alexander and P. M. Van Arsdell. bibliog Oil & Gas J 41:49+ O 22 '42

Non-peroxide catalysts for the reaction between sulfur dioxide and olefins. C. S. Marvel, L. F. Audrieth and W. H. Sharkey. Am Chem Soc J 64:1229-30 My '42

Olefin rearrangements; the equilibrium of olefins from pinacolyl alcohol. R. K. Smith. bibliog Am Chem Soc J 64:1733-5 Jl '42

Olefins and diolefins from allylic chlorides. A. L. Henne, H. Chanan and A. Turk. bibliog Am Chem Soc J 63:3474-6 D '41

Oxidation of aliphatic hydrocarbons. G. Egloff, D. V. Nordman and P. M. Van Arsdell. bibliog Oil & Gas J 41:36 O 1; 49, 51-3 O 8 '42

Partial reduction of acetylenes to olefins using an iron catalyst; enyne and dienyne reduction. A. F. Thompson, jr. and E. N. Shaw. Am Chem Soc J 64:363-6 F '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; phenyl substituted olefins and acetylenes. H. A. Laitinen and S. Wawzonek. bibliog Am Chem Soc J 64:1765-8 Ag '42

Restricted rotation in aryl olefins; β-bromo-β-(2-alkoxynaphthyl)-α-alkylacrylic acids. R. Adams, L. O. Binder and F. C. McGrew. bibliog Am Chem Soc J 64:1791-4 Ag '42

Restricted rotation in aryl olefins; preparation and resolution of β-chloro-β-(2-methoxy-4,6-dimethyl-5-chlorophenyl) -α-methylacrylic and the corresponding acrylic acid. R. Adams and W. J. Gross. bibliog Am Chem Soc J 64:1786-90 Ag '42

Restricted rotation in aryl olefins; substituted β-(2,7-dimethoxy-1-naphthyl)-α-methylacrylic acids. R. Adams and others. Am Chem Soc J 64:1795-1801 Ag '42

Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42

See also

Cyclohexene

Ethylene

Propylene

Analysis

Determination of olefins in gaseous hydrocarbons. B. R. Stanerson and H. Levin. bibliog diags Ind & Eng Chem Anal ed 14:782-4 O 15 '42

OLEIC acid

Extraction of fatty acids from rosin acid; fatty acid mixtures by means of liquid propane. A. W. Hixson and A. N. Hixson. bibliog il diags Am Inst Chem Eng Trans 37:927-54; Discussion. 954-7 D '41

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38:891-930 O '42

Recovering slime cassiterite by soap flotation; Pirquitas plant, in Argentina. E. Oberbillig and E. P. Frink. Eng & Min J 142:54-7 D '41

Some aspects of the rate of reaction of oleic acid with oxygen. J. L. Henderson and H. A. Young. bibliog il J Phys Chem 46:670-84 Je '42

OLENTANGY shale

Age and fossils of the Olentangy shale of central Ohio. R. C. Baker. Am J Sci 240:137-43, pl 1-3 F '42

OLEOMARGARINE

Dairy co-ops voice mad at margarin. Oil Paint & Drug Rep 140:5+ N 24 '41

Margarin production in November, 1940 and 1941. Oil Paint & Drug Rep 141:49 Ja 5 '42 [cont monthly]

See also National association of margarin manufacturers

OLEORESIN. See Gums and resins

OLIGOCENE period. See Geology, Stratigraphic—Oligocene

OLIVE oil

Palestine's olive oil; olive-oil production in Turkey. For Comm W 8:23 S 19 '42

Spanish order regulating olive oil during the season 1941-42. For Comm W 6:24 Ja 3 '42

Turkey's output of edible olive oil. For Comm W 6:25 Mr 21 '42

Analysis

Mixed unsaturated glycerides of liquid fats; low-temperature crystallisation of olive oil. T. P. Hilditch and L. Maddison. Soc Chem Ind J 60:258-62 O '41

OLIVER, Henry W. 1840-1904

Iron pioneer: Henry W. Oliver, 1840-1904. H. O. Evans. 370p bibliog(p344-7) $3.50 Dutton '42

OLIVES

Pictures of processes. Food Ind 14:54-5 O '42

Ripe olives gain. Business Week p52 Ja 31 '42

Spanish regulations, classifications, and prices governing exportation of Sevillian green olives; 1941-42 crop. For Comm W 6:19, 23 Ja 17 '42

OLIVETOL

Cannabis indica; the isolation of 3′ : 4′ : 5′ : 6′-tetrahydrodibenzopyran derivatives from pulegone-orcinol and pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

OLIVINE

Electric furnace study of the $MgO-SiO_2$ system. R. R. Ralston and G. T. Faust. bibliog il diag Am Cer Soc J 25:294-310 Jl 1 '42

Olivine as a source of magnesium; abstract. E. C. Houston. Chem & Met Eng 49:149-50 Ap '42

Olivine; potential source of magnesia. G. W. Pawel. il map Min & Met 23:331-3 Je '42

OLMSTEAD, Dawson, 1884-

Chief signal officer, U.S. army. por Radio N 27:16 Ja '42

OLPIN, Albert Ray, 1898-

Sketch. por Am Cer Soc Bul 21:227 O 15 '42

OMAHA

Water supply

Omaha water works, a successful business. W. S. Byrne. Am Water Works Assn J 34:1503-10 O '42

O'MELVENY, Donald, 1891-1942

Sketch. Inv Banking 12:13 O '42

ONCLEY, John Lawrence, 1910-

A.C.S. pure chemistry prize. Oil Paint & Drug Rep 141:7+ My 25 '42

Award of the prize in pure chemistry of the American chemical society. Science 95:549 My 29 '42

Receives A.C.S. award. por Chem & Eng N 20:1004 Ag 25 '42

O'NEIL, John E.

From office boy to partner in firm. por East Underw 43:27 Ja 23 '42

ONIONS

Ascorbic acid content of onions and observations of its distribution; abstract. E. F. Murphy. Food Ind 14:101 Ap '42

ONTARIO

Western Ontario and the American frontier. F. Landon. 305p bibliog(p285-93) $3.50 Yale univ. press '42

See also

Geology—Ontario

Gold mines and mining—Ontario

Iron ores—Ontario

Mines and mineral resources—Ontario

ONTARIO agricultural college

Science serves agriculture; teaching, extension and investigational work at Ontario agricultural college. W. H. Pitcher. il Can Chem & Process Ind 26:303-6, 308+ My '42

ONTARIO good roads association

Annual meeting, 40th, Toronto, Feb. 25-26. Roads & Bridges 80:25-30+ Mr '42

OOSPORA

Some aspects of microbiology in the treatment of sewage. T. G. Tomlinson. il Soc Chem Ind J 61:53-8 Ap '42

OPACIFIERS

Use of topaz as a glass opacifier. S. B. Meyer, jr. Glass Ind 23:185+ My '42

OPACITY

Some applications of wave-length turbidimetry in the infrared. C. E. Barnett. bibliog J Phys Chem 46:69-75 Ja '42

OPAL glass. See Glass, Opal

OPEN and closed shop

Arbitration board orders union shop in captive coal mines; Fairless dissents. Comm & Fin Chr 154:1683 D 27 '41

Closed shop. J. E. Johnsen, comp. Ref Shelf v 15, no 7:1-263 bibliog(p239-63) '42 ($1.25)

Closed shop agreements cover third of workers in ten leading industries. Steel 109:56 D 1 '41

Closed shop mirage. J. C. Aspley. Am Business 12:14-16 Mr '42

Closed-shop referendum under Wisconsin law upheld by United States Supreme court. Monthly Labor R 54:1359 Je '42

Democracy and the closed shop. J. Chamberlain. Fortune 25:64-5+ Ja '42; Abstract. Management R 31:154-6 My '42

Dissenting opinion in captive coal mine dispute. B. F. Fairless. Manuf Rec 110:25+ D '41

Employers curbed; order by NLRB restraining M. & M. and other groups. Business Week p19-20+ D 13 '41

Extent of collective bargaining at beginning of 1942. F. Peterson. Monthly Labor R 54:1066-70 My '42

Ideal anti-espionage system; union shop assumes joint responsibility; abstract. Management R 30:449-50 D '41

Lewis's victory; three arbiters vote 2 to 1 for union shop in captive coal mines. Business Week p28+ D 13 '41

Los Angeles's own war; open-shop battle. Business Week p87-8 Mr 14 '42

Machinists win; NWLB grants A.F.L. union maintenance of membership. Business Week p78+ Je 13 '42

Sound labor policy essential. W. D. Fuller. Comm & Fin Chr 155:1870 My 14 '42

Supreme court upholds NLRB on closed shop. Comm & Fin Chr 155:1359 Ap 2 '42

Trend toward union shop in American industry. Pub Util 28:829-33 D 18 '41

Union security issue. L. G. Reynolds and C. C. Killingsworth. Ann Am Acad 224:32-9 N '42

OPEN and closed shop—*Continued*

Union shop; it is forcing a decision on the limitation of labor's power. Fortune 24:64-5 D '41

U.S. commerce chamber advocates open shop. Comm & Fin Chr 155:1780 My 7 '42

What shall be done about the closed shop issue? C. E. Wyzanski. Am Business 12:12-13, 38 F '42

OPEN hearth furnaces

Advancements in the manufacture of open hearth steel. W. J. Reagan. Blast F & Steel Pl 30:228-9 F '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; furnace and pyrometer installation. J. E. Doyle, W. J. Collins and J. E. Pluck. diags Iron & Steel Inst J 144:212-17 no 2 '41

Dolomite bricks for use in steel works. T. Swinden and J. H. Chesters. diags Iron & Steel Inst J 144:105-18, pl 15-16 no 2 '41; Same cond. Blast F & Steel Pl 29:1162-6, [1156-9], 1254-5 O-D '41; Same cond. Engineering 152:317-19 O 17 '41

Fitch recuperative open hearth furnace. diag Blast F & Steel Pl 30:692 Je '42

Handling refractories with fork trucks and pallets cuts costs, speeds masonry operations. il Steel 111:84+ Jl 20 '42

Charging

Manufacture of high-quality, low cost steel. P. J. McKimm. Steel 109:64 D 15 '41

Control

Steel furnace instrumentation, with special reference to soaking-pit and open-hearth. M. J. Boho. flow chart il diags Instruments 15:167-72 My '42

Lining

Acid open hearth refractories. J. H. Chesters. il Iron Age 149:46-51 My 28; 64-70 bibliog (p70) Je 4 '42

Artificial magnesite, StaSet; abstract and discussion. I. A. Nichols. Iron Age 149:50-1 Ap 23 '42

Basic open-hearth refractories; abstract of papers, open hearth conference. Metals & Alloys 16:484+ S '42

Basic refractory practice at Algoma steel corporation, ltd. J. W. Craig. il Blast F & Steel Pl 30:241-5 F '42

Chrome magnesite open hearth linings. A. Mund. Iron Age 148:61 D 4 '41

Chrome ores in open hearth refractories; abstract. F. L. Toy. Iron Age 149:51 Ap 23 '42

Co-operative investigation of the factors influencing the durability of roofs of basic open-hearth furnaces. T. Swinden and others. diags Iron & Steel Inst J 144:203-62, pl 21-8 no 2 '41; Excerpts. Blast F & Steel Pl 30:172, 174-5, 276-8 Ja-F '42; Discussion. Iron & Steel Inst J 144:263-71 no 2 '41

Linings of large basic open-hearth tilting furnaces. A. Jackson. Engineering 154:216-17, 224-5 S 11-18 '42

Open-hearth furnace refractories; discussion. Engineering 153:505 Je 26 '42

Protecting water-cooled equipment on open-hearth furnaces. J. B. Luckie. il diags Steel 110:70, 72+ Ja 12 '42

Testing

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; furnace campaign. A. E. Dodd and others. bibliog diags Iron & Steel Inst J 144:218-37, pl 21-3 no 2 '41

OPEN hearth process

Acid open hearth practice in the manufacture on tire steel. E. C. Houston. il diags Blast F & Steel Pl 29:514-18, 631-3+, [1116-18] My-Je, N '41

Acid open hearth research association formed. Blast F & Steel Pl 30:645 Je '42

Advancements in the manufacture of open hearth steel. W. J. Reagan. il Blast F & Steel Pl 30:48-51+, 227-32 Ja-F '42

Chromium recovery in basic openhearth. il Metal Prog 41:506-9+ Ap '42

Conservation of alloys in the open-hearth. W. J. Reagan. il Metals & Alloys 15:740-4 My '42

Desulphurization in the open-hearth. F. W. Scott and T. L. Joseph. bibliog il Metals & Alloys 15:745-50, 976-8 My-Je '42

Determining tapping temperatures by the spoon test; training open-hearth crews facilitated by moving picture camera. A. G. Arend. il Steel 111:104, 108+ Jl 6 '42

Duplex process for the manufacture of basic open hearth steel. H. B. Emerick and S. Feigenbaum. bibliog Blast F & Steel Pl 30:521-31 My '42

Effect of manganese on the desulphurizing power of calcium silicates. F. W. Scott and T. L. Joseph. bibliog Blast F & Steel Pl 30:425-30, 532-5+ Ap-My '42

Electric furnace alloy steel made by open-hearth method; Follansbee steel corporation. Steel 111:288-9 O 5 '42

First helper's hand book of slag control. J. T. Mauer. il Blast F & Steel Pl 30:656-61 Je '42

High-iron charges in open-hearth practice. L. B. Lindemuth. il Steel 110:88, 90, 109-12 Ap 20 '42

Intercrystalline cracking in boiler plates; strain-etch markings in boiler-plate material of acid open-hearth manufacture. F. Adcock and C. H. M. Jenkins. Iron & Steel Inst J 143:133-6, pl 19-20 no 1 '41

Iron; its use and effect in making basic open-hearth steel. W. C. Buell, jr., J. R. Miller and H. W. Potter. il diag Steel 111:78, 80, 82+ Ag 17 '42; Same cond. Metals & Alloys 16:724+ O '42

Manufacture of high-quality, low-cost steel; general characteristics of steelmaking. P. J. McKimm. il Steel 110:88, 90, 93 Ap 13; 74, 76, 79 Ap 27 '42

Manufacture of high-quality, low-cost steel; pouring practice. P. J. McKimm. bibliog il Steel 111:90, 92+ Jl 13 '42

Manufacture of high-quality, low cost steel; the melting phase. P. J. McKimm. bibliog il Steel 109:78, 80-2, 90-1 S 29; 62, 64, 67+ D 15 '41

Open hearth and blast furnace and raw materials committees, AIMME, 25th conference. Iron Age 149:49-56 Ap 23 '42; Metals & Alloys 15:783+ My '42

Open hearth melting stock direct from iron ore. diags plan Blast F & Steel Pl 30:sup40-2 Ap '42

Openhearth records due to managerial ability. W. C. Buell, jr. Metal Prog 42:592 O '42

Open-hearth steel committee and blast furnace and raw materials committee of the American institute of mining and metallurgical engineers 25th conference program. Blast F & Steel Pl 30:sup20+ Ap '42

Preparation and use of iron ores for high metal heats. R. W. Tindula. Blast F & Steel Pl 30:763-8 Jl '42

Record tonnages from American openhearths; report of openhearth and blast furnace conference. H. J. Sweeney. il Metal Prog 41:676-9+ My '42

Shell steel manufacture. C. M. Lichy. il Metal Prog 41:41-3 Ja '42

Shortage of high-grade iron ore or sinter for use in open-hearth furnaces may become acute in 1943. Steel 111:40+ O 19 '42

Some open-hearth problems, 1941. F. G. Norris. bibliog Metals & Alloys 14:856-64 D '41

Some recent trends in steel manufacture. G. A. V. Russell. Engineering 153:134-5, 155-6, 177-8, 217-18 F 13-27, Mr 13 '42

Studies of the acid open hearth process; abstracts. B. Kalling and N. Rudberg. Metals & Alloys 15:136 Ja '42; Chem & Met Eng 49:180 F '42

Tin can bundles used discriminately in the basic open-hearth furnace. Steel 110:77+ F 16 '42

Tin-plate scrap in the open hearth. F. T. Sisco. Min & Met 23:514 O '42

OPEN hearth process—*Continued*

Training and education of open hearth personnel. J. S. Morris. Blast F & Steel Pl 30:869-74 Ag '42

Use of active mixer for reducing silicon content of pig iron; abstract. W. C. Buell, jr. Steel 110:51 Ap 27 '42

Use of the spectrograph as an aid in improving open hearth practice. J. A. Sample. Blast F & Steel Pl 30:875-6 Ag '42

See also

Open hearth furnaces

also Acid open hearth research association

Bibliography

Bibliography on the physical chemistry of the open-hearth process (covering the period 1938 to 1940). 20p pa 2s 6d; to members 1s Iron and steel inst, 4, Grosvenor gardens, London, SW 1 '41

OPEN pit mining. See Mining methods—Stripping operations

OPERA

American opera designs; New York public library exhibition. il Arch Forum 76:sup14, 16 Ja '42

OPERATIONS, Surgical

Synopsis of the preparation and aftercare of surgical patients. H. C. Ilgenfritz and R. M. Penick. 532p $5 C. V. Mosby co, St Louis '41

OPHTHALMOLOGY

Ophthalmology and otolaryngology. 331p $4 Saunders '42

Study and teaching

International graduate school exchange. Science 95:570 Je 5 '42

OPIUM

Japan and the opium menace. F. T. Merrill. 170p bibliog(p163-6) pa $1.50 Inst. of Pacific relations, New York '42

OPPENAUER reagent

Studies in the sterol group; the oxidation of phytosterols with the Oppenauer reagent. E. R. H. Jones, P. A. Wilkinson and R. H. Kerlogue. Chem Soc J p391-3 Je '42

OPTICAL compensators. See Compensators, Optical

OPTICAL dispersion. See Dispersion of rays

OPTICAL flats

Optically flat surfaces on mass production basis; using stones made with microbond. Automotive Ind 85:46 D 1 '41

Precision measurements; E. H. Jones (machine tools) ltd, standards room. il Automobile Eng 32:179-80 My '42

OPTICAL glass. See Glass, Optical

OPTICAL illusions

Purple ring illusion. R. L. Ives. il Opt Soc Am J 32:119-20 F '42

OPTICAL instruments

Long optical path in a restricted space. H. R. Kratz and J. E. Mack. bibliog diags Opt Soc Am J 32:457-64 Ag '42

Measurement of visibility; Luckiesh-Moss visibility meter. M. Luckiesh and F. K. Moss. il diag J Aeronautical Sci 9:100-2 Ja '42

Optical methods of chemical analysis. T. R. P. Gibb, jr. 391p $5 McGraw-Hill '42

Optical oscillograph for engine investigations; abstract. K. J. DeJuhasz. diag Automotive & Aviation Ind 86:33 F 1 '42

Optical problems facing the navy. S. S. Ballard. Opt Soc Am J 32:123-8 Mr '42

Optical unit for obtaining variable magnification in ophthalmic use. K. N. Ogle. il diags Opt Soc Am J 32:143-6 Mr '42

Optics and service instruments. 128p $1.75 Chemical pub. co. '41

Performance of optical instruments with coated lens systems. J. E. Tyler, R. S. Morse and F. B. Jewett, jr. diag Opt Soc Am J 32:211-13 Ap '42

Progress in engineering knowledge during 1941; optical measurements. P. L. Alger. Gen Elec R 45:105 F '42

Resolving power as a function of intensity. B. P. Ramsay, E. L. Cleveland and W. A. Bowen, jr. bibliog Opt Soc Am J 32:288-92 My '42

Some developments in electrical and optical instruments. il Engineer 173:124-5, 167-8 F 6, 20 '42

Systems of interferential devices. B. P. Ramsay and F. B. Pauls. bibliog Opt Soc Am J 32:78-83 F '42

See also

Camera lucida
Densitometers
Diffraction gratings
Epidiascope
Eye—Examination
Glass, Optical
Interferometers
Lenses
Leptoscope
Measuring instruments, Optical
Microscope and microscopy
Monochromators
Moving picture projectors
Photometers
Polariscope
Refractometers
Spectrograph
Spectrometers
Stroboscopic instruments
Surveying instruments
Telescope
Vectographs

Manufacture

Canadian optical instrument industry. W. E. Phillips. Engineering 153:424-5, 465 My 29, Je 12 '42

OPTICAL measurements

Relative sensitivities of television pickup tubes, photographic film, and the human eye. A. Rose. bibliog Inst Radio Eng Proc 30:293-300 Je '42

Resolving power as a function of intensity. B. P. Ramsay, E. L. Cleveland and W. A. Bowen, jr. bibliog Opt Soc Am J 32:288-92 My '42

See also

Measuring instruments, Optical

OPTICAL methods

Layout scheme for plane mirror systems. W. H. Kliever. diags R Sci Instr 12:612 D '41

Prediction and control of colored fiber blends by optical means. Am Dyestuff Rep 30:698-700 D 8 '41

OPTICAL properties

Derivatives of amytal, pentobarbital, and dial; an optical crystallographic study. M. E. Hultquist, C. F. Poe and N. F. Witt. Ind & Eng Chem Anal ed 14:219 Mr 15 '42

Glass-pigment systems. C. Robertson. J Ap Phys 13:635-8 O '42

Identification of alcohols by means of the optical properties of the esters of carbanilic acid. B. T. Dewey and N. F. Witt. Ind & Eng Chem Anal ed 14:648 Ag 15 '42

Magneto-optical properties of ferro-magnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42

Optical dispersion of copper and beryllium. M. P. Givens. bibliog diag Phys R 61:626-30 My 1 '42

Optical properties of diffusing materials. S. Q. Duntley. bibliog diags Opt Soc Am J 32:61-70 F '42

Optical properties of 2-sulfanilamidopyrimidine (sulfadiazine). A. S. Wilkerson. Am Chem Soc J 64:2230 S '42

See also

Absorption of rays
Fluorescence
Paper—Optical properties
Plastic materials—Optical properties
Refractive index

OPTICAL pyrometers. See Pyrometers and pyrometry

OPTICAL rotation

Alkyl-oxygen fission in carboxylic esters; esters of αγ-dimethylallyl alcohol and other substituted allyl alcohols. M. P. Balfe and others. Chem Soc J p556-9 S '42

Benzimidazole rule for the determination of configuration of the aldonic acids and related compounds. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1612-13 Jl '42

OPTICAL rotation—*Continued*

Brucine as a reagent for partially resolving bromoalkanes; the configurations of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

Crystalline modifications of D-manno-D-galaheptose, and the preparation of some of its derivatives. E. M. Montgomery and C. S. Hudson. bibliog Am Chem Soc J 64:247-54 F '42

Effect of temperature on the validity of Hudson's rules of isorotation. W. Kauzmann. bibliog Am Chem Soc J 64:1626-9 Jl '42

Fluorochlorobromomethane. K. L. Berry and J. M. Sturtevant. bibliog Am Chem Soc J 64:1599-1600 Jl '42

Forty years of optical activity; abstract. T. S. Patterson. Chem & Ind 60:864-5 D 6 '41

Influence of lyotropic substances on the specific rotation of β-levoglucosan. J. R. Katz and J. Seiberlich. J Phys Chem 46:640-1 Je '42

Inter-relation of first- and second-order asymmetric transformations. M. M. Jamison and E. E. Turner. Chem Soc J p437-40 Jl '42

Magnetic rotation of cerium salts in aqueous solution. W. K. Wilson and others. bibliog Am Chem Soc J 64:412-16 F '42

Mutarotation of α-D-glucose in dioxane-water mixtures at 25°. H. H. Rowley and W. N. Hubbard. Am Chem Soc J 64:1010-11 Ap '42

Mutarotation of glucose in water-methanol mixtures. H. E. Dyas and D. G. Hill. bibliog Am Chem Soc J 64:236-40 F '42

Natural rotatory power of nickel sulphate at low temperature. P. Rudnick and L. R. Ingersoll. Opt Soc Am J 32:622-6 O '42

Optical activity and living matter. G. F. Gause. 162p bibliog(p133-53) $2.75 Biodynamica, Normandy, Mo. '41

Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42

Optical configuration of glutamic acid isolated from casein hydrolyzates by six procedures. J. C. Opsahl and L. E. Arnow. bibliog Am Chem Soc J 64:2035-9 S '42

Optical rotation of petroleum fractions. M. R. Fenske and others. bibliog Ind & Eng Chem 34:638-46 My '42

Optical rotatory dispersion of (-)tetrahydrofurfuryl alcohol. R. S. Airs and others. Chem Soc J p531-2 Ag '42

Optically active α,β-diglycerides. J. C. Sowden and H. O. L. Fischer. bibliog Am Chem Soc J 63:3244-8 D '41

Optically active synthetic tetrahydrocannabinols; *d*- and *l*-1-hydroxy-3-*n*-amyl-6,9,9-trimethyl-7,8,9,10-tetrahydro-6-dibenzopyrans. R. Adams, C. M. Smith and S. Loewe. bibliog Am Chem Soc J 64:2087-9 S '42

Optically active vasopressor amines. W. R. Brode and M. S. Raasch. bibliog Am Chem Soc J 64:1449-50 Je '42

Reactions of (+)- and (—)-γ-methyl-α-ethylallyl alcohols and their derivatives. R. S. Airs, M. P. Balfe and J. Kenyon. Chem Soc J p18-26 Ja '42

Recording spectrophotometer and spectropolarimeter. W. R. Brode and C. H. Jones. il diags Opt Soc Am J 31:743-9 D '41

Restricted rotation in arylamines; preparation and resolution of N-succinyl-N-ethyl-3-bromomesidine and 5-alkoxy-4-N-succinyl-4-alkylamino-1,3-dimethylbenzenes. R. Adams and H. W. Stewart. Am Chem Soc J 63:2859-64 N '41

Restricted rotation in aryl olefins; β-bromo-β-(2-alkoxynaphthyl)-α-alkylacrylic acids. R. Adams, L. O. Binder and F. C. McGrew. bibliog Am Chem Soc J 64:1791-4 Ag '42

Restricted rotation in aryl olefins; preparation and resolution of β-chloro-β-(2-methoxy-4,6-dimethyl-5-chlorophenyl)-α-methylacrylic and the corresponding acrylic acid. R. Adams and W. J. Gross. bibliog Am Chem Soc J 64:1786-90 Ag '42

Restricted rotation in aryl olefins; substituted β-(2,7-dimethoxy-1-naphthyl)-α-methylacrylic acids. R. Adams and others. Am Chem Soc J 64:1795-1801 Ag '42

Specific rotation of *l*-tyrosine. W. H. Stein, S. Moore and M. Bergmann. bibliog Am Chem Soc J 64:724 Mr '42

Stereochemistry of catalytic hydrogenation; optically active perhydrodiphenic acids; a proof of the configuration of the backbone. R. P. Linstead and W. E. Doering. Am Chem Soc J 64:2003-6 S '42

Ultraviolet rotatory power of crystalline nickel sulfate at the temperature of liquid oxygen. W. C. Knopf, jr. and W. C. Gilmore, jr. bibliog diag Opt Soc Am J 32:619-21 O '42

See also

Dispersion of rays

Racemization

OPTICAL rotatory dispersion. See Dispersion of rays

OPTICAL shops

Mobile optical shop for overseas service. il Comp Air M 47:6799 Jl '42; Nat Safety N 46:36 Jl '42

OPTICAL society of America

Alphabetical directory of members; geographical directory. Opt Soc Am J 32:402-30 Jl '42

By-laws. Opt Soc Am J 32:50-5 Ja '42

Proceedings of summer meeting; with abstracts of papers. Opt Soc Am J 32:629-34 O '42

Proceedings of the twenty-sixth annual meeting. Opt Soc Am J 31:750-9 D '41

OPTICAL trade

See also

American optical company

Advertising

Bausch & Lomb holds Latin American market with unique campaign; struggles of South American heroes for independence featured. H. S. Feeser. il Ind Marketing 27:19, 64 Jl '42

OPTICS

Determining telescope magnification by the principal planes method. L. W. Jones. Eng N 128:410 Mr 12 '42

Five hundred problems in optics, including colorimetric data adopted by the International commission on illumination. F. H. Perrin. 2d ed 37 numb l pa $1.20 Fred Hiram Perrin, 475 Sagamore drive, Rochester, N.Y. '42

Influence of an uneven anisotropy on the path of light rays. P. Frank. Phys R 62:241-3 S 1 '42

Interference phenomena with a moving medium. H. E. Ives and G. R. Stilwell. il diags Opt Soc Am J 31:14-24; 32:25-31 Ja '41, Ja '42

New calculus for the treatment of optical systems. R. C. Jones; H. Hurwitz, jr. Opt Soc Am J 31:485-503; 32:486-93 bibliog(p493) Jl '41, Ag '42

Optical aspects of three-dimensional photoelasticity. R. D. Mindlin. bibliog diags Franklin Inst J 233:349-63 Ap '42

Optics in sabotage and espionage. W. G. Driscoll. Opt Soc Am J 32:134-8 Mr '42

Proceedings of summer meeting of Optical society of America; with abstracts of papers. Opt Soc Am J 32:629-34 O '42

See also

Absorption of rays

Color

Dispersion of rays

Fluorescence

Interference (light)

Light

Luminescence

Measuring instruments, Optical

Photochemistry

Photoelasticity

Photometry

Polarization (light)

Radiation

Reflection (optics)

Sight

Spectrum

Television

Visibility

OPTICS, Electron. See Electron optics

OPTICS, Geometrical
Calculation of illumination from triangular sources. D. E. Spencer. diags Opt Soc Am J 32:274-81 My '42
Long optical path in a restricted space. H. R. Kratz and J. E. Mack. bibliog diags Opt Soc Am J 32:457-64 Ag '42
Long optical paths of large aperture. J. U. White. il Opt Soc Am J 32:285-8 My '42
Projective transformations of color-mixture diagrams. D. L. MacAdam. bibliog Opt Soc Am J 32:2-6 Ja '42
Textbook of light. R. W. Stewart and J. Satterly. 7th ed 365p 7s 6d University tutorial press, London '41

OPTICS, Meteorological. See Meteorological optics

OPTICS, Photographic. See Photographic optics

OPTICS, Physiological
Optical unit for obtaining variable magnification in ophthalmic use. K. N. Ogle. il diags Opt Soc Am J 32:143-6 Mr '42
Vision and seeing under light from fluorescent lamps. M. Luckiesh and F. K. Moss. bibliog Illum Eng 37:81-8 F '42

See also
Color sense
Eye
Optical illusions
Sight
Visibility

ORANGE flower oil
Trade in neroli; import trade, 1939 and 1940. For Comm W 9:42 O 31 '42

ORANGE juice
Experiments with antioxidants for preventing flavor deterioration in canned orange juice; abstract. J. Nolte, G. N. Pulley and H. W. von Loesecke. Food Ind 14:114-15 O '42
New orange products in Brazil. For Comm W 6:33 Ja 3 '42
Physiological study of carotenoid pigments and other constituents in the juice of Florida oranges; abstract. E. V. Miller, J. R. Winston and D. F. Fisher. Food Ind 14:102-3 Ap '42

Standards

Brief summaries of AMS standards; canned orange juice. Food Ind 14:47+ Ag '42

ORANGE oil
New orange products in Brazil. For Comm W 6:33 Ja 3 '42

See also
Orange flower oil

ORANGE OT
Studies on solubilization. R. C. Merrill, jr. and J. W. McBain. bibliog J Phys Chem 46:10-19 Ja '42

ORANGES

Statistics

Brazilian production and exportation of oranges. For Comm W 7:21 Ap 25 '42

ORBITS
Orbit sleuthing; how the astronomer determines the size and shape of a double star's orbit. H. N. Russell. Sci Am 166:134-5 Mr '42

ORCHESTRA shells
Encanto Park music shell, Phoenix, Ariz.; view and plans. Arch Rec 90:80 D '41
Warm-air heat for music shell; electric system; Edward Hatch memorial music shell, Boston. il diags Sheet Metal Worker 33:96, 98+ Ja '42

ORCHIDS
Orchids grown in cleaned air. il Heat & Ven 39:26 Je '42
Orchids in Oklahoma; greenhouse heating with gas. W. J. Douvall. il diags Gas Age 90:57-8 O 8 '42

ORCINOL
Cannabis indica; the isolation of 3′ : 4′ : 5′ : 6′-tetrahydrodibenzopyran derivatives from pulegone-orcinol and pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

ORDERS
Carboloy's order and receiving system. Am Business 12:16 Ag '42
Recording of orders. S. H. Withey. Electrician 129:145-6 Ag 7 '42

ORDERS, Unfilled
How De Long handles correspondence about deliveries. C. A. Emley. Ind Marketing 27:30-1 F '42

ORDNANCE
Army matériel inspection. R. W. Case. Mech Eng 63:278-80 Ap '41; Discussion. 63:919 D '41
Copper situation in ordnance work; important substitutions. A. F. Macconochie. il Steel 111:194-6+ O 5 '42
Design and redesign of ordnance material. J. B. Nealey. il Product Eng 13:568-72 O '42
Designing for defense. G. M. Barnes. il Mech Eng 64:17-19 Ja '42
Materials conservation in the design of ordnance equipment. J. H. Frye. il Product Eng 13:428-31 Ag '42
Mechanical engineer in war. E. McFarland. Mech Eng 64:337-9 My '42
Ordnance department paint developments. E. T. McBride. Chem & Eng N 20:850-1 Jl 10 '42; Same. Metal Finishing 40:563+ O '42
Ordnance; in guns and tanks, Europeans have a headlong start on U.S. army. il Fortune 24:70-5 D '41
Ordnance in my time. C. M. Wesson. Mech Eng 64:435-8 Je '42
Ordnance inspection. R. H. Somers. il Ind Stand 13:155-7 Je '42
San Jacinto, Texas, ordnance depot nears completion. il Manuf Rec 110:26-7+ D '41
Silver expands industrial applications to include much ordnance work. H. Chase. il Steel 110:86+ Mr 2 '42
Some views on plastics in wartime; ordnance developments. E. T. McBride. il Mod Plastics 19:39-41 Ap '42
South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:20-1+ Ja '42
Why and how of conservation and substitution in ordnance work. A. F. Macconochie. il Steel 111:164-6, 169-70 O 5 '42

See also
Guns (ordnance)
Machine guns
United States—Army—Ordnance and ordnance stores

Manufacture

Aluminum, high on list of critical metals. A. F. Macconochie. il diag Steel 111:66-8+ O 26 '42
Brazed assemblies save material for ordnance. diags Product Eng 13:631 N '42
Bright hardening of ordnance parts. J. A. Dow. Metal Prog 42:600 O '42
Composite stampings replace forgings, castings in ordnance production. G. W. Birdsall. diags Steel 111:82-6+ O 12 '42
Development of standards for army ordnance finishes. M. R. Norton. bibliog il Mech Eng 64:703-17 O '42
Factors affecting the accuracy of ordnance machine cutting. H. G. Hughey and A. H. Yoch. diags Welding J 21:684-90 O '42
Faster heat treatment of ordnance. F. O. Hess. Metal Prog 42:601 O '42
Foolproof gaging system developed by Army Ordnance. J. B. Nealey. il diags Iron Age 150:45-50 S 3 '42
How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42
Induction brazing in ordnance work. W. E. Benninghoff. il Steel 109:58+ D 29 '41
Many refrigeration firms producing ordnance. Refrig Eng 44:87-8 Ag '42
Metal cleaning and ordnance production. R. W. Mitchell. diags Steel 109:90, 94+ D 8; 86+ D 15; 54+ D 29 '41
Ordnance production gaging. R. A. Bowman. il diags Instruments 15:174-5+, 244-7+, 292-6, 352-4, 356, 412-16 My, Jl-O '42

ORDNANCE—Manufacture—*Continued*

Ordnance redesigns to free critical materials. J. B. Nealey. il Iron Age 150:38-41 O 15 '42

Quality-control procedures in ordnance inspection. G. D. Edwards. Mech Eng 64:673-5 S '42

Role of cast iron in ordnance material. C. H. Morken. Foundry 70:73+ N '42

Safety's triangle; vigilance, cleanliness and morale; shell loading and ordnance plants. J. R. Mardick. il Safety Eng 83:13, 16 Ap '42

Shop problems in ordnance manufacture; abstract. J. K. Clement. Mech Eng 64:570 Jl '42

Stampings replace critical forgings in ordnance. diags Product Eng 13:630 N '42

Teaching aids for inspectors; Carnegie institute of technology, courses for training army ordnance inspectors. C. B. Stanton. il diags Am Mach 86:1015-17 S 17 '42

Testing

Application of statistical methods to ordnance engineering. L. E. Simon. Am Statis Assn J 37:313-24 S '42

ORDNANCE department. See United States—Ordnance department

ORE analysis. See Metallurgical analysis

ORE bins

Design of storage bin for crushed ore; Morenci mine. C. W. Dunham. il diag Min & Met 23:268-9 My '42

ORE chutes

Chute liners that last. diags Eng & Min J 143:66 Ja '42

ORE deposits

Alkalic rocks of Iron Hill, Gunnison county, Colorado. E. S. Larsen. bibliog diags map U S Geol S Professional Pa 197-A:1-64, pl 1-3; pa 40c Supt. of doc. '42

Control of ore by rock structure in a Coeur d'Alene mine. H. E. McKinstry and R. H. Svendsen. diags maps Econ Geol 37:215-30 My '42

Differential density of ground water as a factor in circulation, oxidation and ore deposition. J. S. Brown. Econ Geol 37:310-17 Je '42; Discussion. E. T. McKnight. 37:424-6 Ag '42; Discussion. D. J. Cederstrom. 37:524 S '42

Direction of flow of mineralizing solutions. W. H. Newhouse. il diags Econ Geol 36:612-29 S '41; Discussion. M. C. Bandy. 37:330-3 Je '42

Exploration possibilities in the Cadillac-Malartic district. G. F. Flaherty. maps Can Min J 63:283-9 My '42

Genesis of some ore deposits of southeastern Maine. C. Li. maps Geol Soc Bul 53:15-51 bibliog(p46-7) pl 1-5 Ja '42

Geological factors in recent ore discoveries. W. R. Landwehr and others. il map Min Cong J 28:18-34 Ja '42

Geology and ore deposits of the Dillon nickel prospect, southwestern Montana. H. Sinkler. il map Econ Geol 37:136-52 Mr '42

Geology and paragenesis of the nickel ores of the Cuniptau mine, Goward Nipissing district, Ontario. B. T. Sandefur. il Econ Geol 37:173-87 My '42

Geology of the Josephine mine. E. L. Brown and W. F. Morrison. il plan map Can Min J 63:5-9 Ja '42

Geology of the Powell mine; Noranda-Rouyn area. R. C. McMurchy. diags Eng & Min J 142:47-9 N '41

Granite and ore. A. Locke. Econ Geol 36:448-54 Je '41; Discussion. H. E. McKinstry. 36:829-32 D '41; Discussion. A. L. Anderson. bibliog 37:510-19 S '42

Host-rock inflation by veins and dikes at Grass Valley, California. R. Farmin. il Econ Geol 36:143-74 Mr '41; Discussion. 36:751-6; 37:238-42 N '41, My '42

In the Steeprock area; résumé of geological work and iron ore exploration. E. R. Rose. bibliog Can Min J 63:292-5 My '42

Magmas and ores. A. M. Bateman. Econ Geol 37:1-15 Ja '42

Manganese-bearing veins in southwestern Virginia. A. I. Jonas. bibliog map Econ Geol 37:408-23 Ag '42

Mineralization in the West Tintic mining district, Utah. B. F. Stringham. bibliog diags maps Geol Soc Bul 53:267-90, pl 1-2 F '42

Mineralization of the Ajo copper district, Arizona. J. Gilluly. bibliog diags maps Econ Geol 37:247-309 Je '42

Mining geologist's service to the mineral industry. R. H. Sales. Min & Met 23:381 Jl '42

Mining geology meetings, A.I.M.E. stress war minerals. Min & Met 23:162-4 Mr '42

Mining geology, 1941. H. Schmitt. Eng & Min J 143:78-80 F '42

Mining geology; present problem is discovery and exploitation of ore deposits to meet war needs. H. E. McKinstry. il Min & Met 23:57-61 F '42

Occurrence and origin of the titanium deposits of Nelson and Amherst counties, Virginia. C. S. Ross. map U S Geol S Professional Pa 198:1-59, pl 1-19; pa 25c Supt. of doc. '41

Origin of the Mansfeld copper deposits. C. H. White. Econ Geol 37:64-8 Ja '42

Oruro silver-tin district, Bolivia. D. F. Campbell. bibliog diags maps Econ Geol 37:87-115 Mr '42

Progress in the study of exsolution in ore minerals. G. M. Schwartz. bibliog Econ Geol 37:345-64 Ag '42

Quicksilver deposits in San Luis Obispo county and southwestern Monterey county, California. E. B. Eckel, R. G. Yates and A. E. Granger. diags fold maps U S Geol S Bul 922-R:515-80, pl 78-87; pa 75c Supt. of doc. '41

Society of economic geologists; abstracts of papers to be presented at 22d annual meeting in conjunction with the Geological society of America, Boston, Dec. 29-31, 1941. Econ Geol 36:839-48 D '41

Some concepts on the geology of quicksilver deposits in the United States. C. P. Ross. map bibliog(40 titles) Econ Geol 37:439-65 S '42

Source beds of manganese ore in the Appalachian valley. G. W. Stose. Econ Geol 37:163-72 My '42

Study of the geology and ore deposits of the Ashbrook silver mining district, Utah. V. E. Peterson. bibliog il diags maps Econ Geol 37:466-502 S '42

Timagami map area. W. W. Moorhouse. map Can Min J 63:236-9 Ap '42

See also

Copper ores
Geology
Gold ores
Iron ores
Lead ores
Manganese ores
Mines and mineral resources
Silver ores
Tin ores
Tungsten ores

ORE docks

Handling the vital ore movement; Great Northern. il map Ry Age 112:371-4 F 14 '42

ORE handling

Belt conveying at the Morenci ore reduction plant. J. H. Johansen. il diags plan Min & Met 23:286-9 My '42

Belt conveyors in metal mining. W. E. Philips. il Min Cong J 28:24-5+ Je '42

Cold weather ore and coal handling safeguarded by electric strip heaters. M. Greenler. diags Steel 110:82+ Mr 16 '42

Design of storage bin for crushed ore; Morenci mine. C. W. Dunham. il diag Min & Met 23:268-9 My '42

Novel swing chute for storage bins. diags Eng & Min J 143:68 Jl '42

Ore via pipeline; method patented by E. Erb Wuensch. Business Week p99-100 S 12 '42

Underground transportation of ore at Noranda. H. A. Quinn. il diags plan Can Min J 62:673-82, 765-73 O-N '41

ORE sampling

Principles of ore sampling; abstract. O. C. Shepard. Min & Met 23:386 Jl '42

ORE testing

Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42

Progress reports, Metallurgical division; ore-testing studies of the ore-dressing section, fiscal year, 1941. A. L. Engel and S. M. Shelton. flow sheets U S Bur Mines Rep of Invest 3628:1-36 '42

Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42

ORE transportation

See also

Iron ores—Transportation

ORE treatment

Advances in milling methods, 1941. M. W. Bowen and others. il Min Cong J 28:65-72 F '42

Beneficiation of alunite. A. Gabriel and J. Dasher. pls map U S Bur Mines Rep of Invest 3610:1-20 '42

Cleanliness achieved in new crushing laboratory; Richards mineral dressing laboratory at M.I.T. R. Schuhmann, jr. il diags plan Eng & Min J 143:59-61 S '42

Concentrating manganese ores from Drum Mountain district. S. R. Zimmerley, J. D. Vincent and C. H. Schack. U S Bur Mines Rep of Invest 3606:1-12 '42; Same cond. Eng & Min J 143:149-50, 152-4 Ap '42

Concentrating tungsten ore by hand in Bolivia. H. L. Dotson. il Eng & Min J 143:64 Je '42

Electronic separator points toward use of low-grade ores. il Sci Am 167:126 S '42

Future possibilities of Mesaba magnetite sinter. G. W. Hewitt. Blast F & Steel Pl 30:753-7+ Jl '42

Grinding progress in Canadian gold plants. H. Hanson. Eng & Min J 143:63-4 My '42

Iron-ore beneficiation, 1941. L. J. Erck. Eng & Min J 143:82-3 F '42

Manganese investigations, Metallurgical division; ore-dressing studies of manganese ores. S. R. Zimmerley and others. U S Bur Mines Rep of Invest 3606:1-12; 3608:1-32; 3613:1-21; 3614:1-18; 3620:1-9; 3623:1-13; 3624:1-13; 3632:1-18; 3633:1-14; 3637:1-10; 3647:1-25; 3652:1-17 '42

Metalliferous by-products; treatment of poor-grade materials. C. C. Downie. Chem Age (Lond) 45:289-90 D 6 '41

Mineral dressing, 1941. S. R. B. Cooke. Eng & Min J 143:80-2 F '42

Mining and milling methods and costs at the Yellow Pine mine, Stibnite, Idaho. J. D. Bradley. flow sheet U S Bur Mines Information Circ 7194:1-12 '42

New mineral dressing curriculum and laboratories at M.I.T. A. M. Gaudin. il Min & Met 23:376-7+ Jl '42

Ore concentration and milling, 1941. C. H. Benedict. il Min & Met 23:71-4 F '42

Ore treatment and costs at McMarmac Red Lake gold mines limited. J. E. Bryans. flow sheet il Can Min J 63:423-33 Jl '42

Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42

Progress reports, Metallurgical division; ore-testing studies of the ore-dressing section, fiscal year, 1941. A. L. Engel and S. M. Shelton. flow sheets U S Bur Mines Rep of Invest 3628:1-36 '42

Review of certain unit processes in the reduction of materials. J. C. Farrant. il diags Inst Chem Eng Trans 18:56-80; Discussion. 80-6 '40

Tungsten; important war metal. D. C. McLaren. flow sheet il Min Cong J 28:29-33 Jl '42

See also

Classifiers
Copper metallurgy
Crushing
Crushing machinery
Cyanide process
Electrometallurgy
Electrostatic separators
Flotation process
Gold metallurgy
Iron metallurgy
Lead metallurgy
Magnetic separation of ores
Metallurgical plants
Metallurgy
Separators
Sintering

OREGON

See also

Geology—Oregon
Mercury mines and mining—Oregon
Mines and mineral resources—Oregon
Nickel mines and mining—Oregon

Economic conditions

Oregon business review [processed]. Published monthly by the Bur. of business research, School of business administration, Univ. of Oregon, Eugene

ORES

Legendary white metal and its ore; Southwestern legend of ore that could be used to harden iron or steel. C. W. Davis. U S Bur Mines Information Circ 7205:1-5 '42; Same cond. Eng & Min J 143:147-9 Je '42

See also

Copper ores
Geology
Gold ores
Iron ores
Lead ores
Manganese ores
Metallurgy
Metals
Mines and mineral resources
Ore deposits
Ore treatment
Tin ores
Tungsten ores

ORGAN pipes

Comparison between a Haskell organ pipe and a simple open pipe. R. C. Binder and A. S. Hall. bibliog Acoustical Soc Am J 14:140-2 O '42

Edge tones. A. T. Jones. bibliog Acoustical Soc Am J 14:131-9 O '42

ORGANIC acids. See Acids, Organic

ORGANIC chemistry. See Chemistry, Organic

ORGANIZATION in industry

Anomaly of functional authority at the top. H. H. Farquhar. Advanced Management 7:51-4+ Ap-Je '42; Abstract. Management R 31:370-1 N '42

Automobile engineering organization and procedure. C. R. Paton, R. F. Kohr and M. A. Forester. S A E J 50:439-43+ O '42

Bottom-up management; technique of William B. Given, jr. in building American brake shoe & foundry co. J. A. Murphy. Sales Management 50:18-21 My 15 '42

Engineering organization of a large industrial business; General electric company. R. C. Muir. Elec Eng 61:424-6 Ag '42; Same. Gen Elec R 45:435-7 Ag '42; Discussion. Elec Eng 61:427-8 Ag '42

Flexible maintenance keeps production moving; Gardner-Denver company organization chart. E. A. Rapp. Factory Management 100:60 Ap '42

How about electric utility staff organization? J. H. Bickley. Pub Util 30:69-81 Jl 16 '42

How an A-E-M contract works; details of architect-engineer manager organization. Eng N 129:179-82 Jl 30 '42

Industrial economist as staff officer; Armstrong cork company. W. Wright. Harvard Business R 20 no 3:385-6 [Ap] '42

Organization for weight control. J. E. Ayers. Aero Digest 41:166, 168+ Jl '42

Organization in industry; works electrical engineer expresses his opinion. Electrician 128:7 Ja 2 '42

Organization of large-scale engineering work. Bell telephone system. M. R. Sullivan. Elec Eng 61:422-4; Discussion. 428-9 Ag '42

Philosophy of organization; fundamental principles and concepts in business organization. N. B. Schreiber. 113p bibliog(p109-13) $2.50 A. Kroch & son, Chicago '42

Retail store organization. G. E. Brown. Personnel J 21:34-40 My '42

Role of management in the organization of resources for production. L. C. Sorrell. J Business 14:27-41 pt 2 O '41

Role of SAM in management education. W. R. Spriegel. Advanced Management 6:136-7 O-D '41

Technical committee system; General electric company. S. H. Blake. Gen Elec R 45:447-50 Ag '42

ORGANIZATION in industry—*Continued*

Ten commandments of good organization. Factory Management 99:64 D '41

Top-management organization and control. P. E. Holden, L. S. Fish and H. L. Smith. 239p $4 Stanford univ. press '41; Review. by W. P. Fiske. Mech Eng 64:522-4 Jl '42; Review. Ry Age 113:140-1 Jl 25 '42

Top-management organization and control; extracts and reviews of report of research study made by P. E. Holden, L. S. Fish and H. L. Smith. Personnel J 20:243-53 Ja '42

War maintenance; deep-mine organization and personnel both influence maintenance. Coal Age 47:67-8 O '42

Work planning in industry [development and promotion of a product principle]. J. K. Louden. Advanced Management 7:98-101+ Jl-S '42

Works organisation. F. L. Meyenberg. Engineer 174:191-2 S 4 '42

See also

Advertising departments
Credit departments
Efficiency, Industrial
Employment departments
Employment management
Engineering departments
Factory management
Industrial management
Sales departments

ORGANS

See also

Organ pipes

ORIENTATION (chemistry)

Orientation effects in the alkylation of *m*-xylene by various procedures and reagents. D. Nightingale, H. D. Radford and O. G. Shanholtzer. bibliog Am Chem Soc J 64:1662-5 Jl '42

Orientation studies in the coumaran series. R. T. Arnold and J. C. McCool. bibliog Am Chem Soc J 64:1315-17 Je '42

Quantum mechanical investigation of the orientation of substituents in aromatic molecules. G. W. Wheland. bibliog Am Chem Soc J 64:900-8 Ap '42

ORIENTATION (crystals). See Crystallography

ORIFICES

Applying the mechanical integrator to orifice meter measurement. J. L. Cottrell. il Pet Eng 13:71-2, 74 Je; 51-2, 54+ Jl '42

Elements of orifice meter operation and maintenance. J. W. J. Bercher. diags Pet Eng 13:86, 88 N; 44+ D '41; 86+ Ja '42

Experimental data with wet and dry dusts to determine effect on pipeline transmission and orifice coefficients. G. M. Kirkpatrick. il Am Gas Assn Mo 24:264-6 Jl-Ag '42

How to protect equipment against failure of flow; new data allow easy selection of orifices for use with differential pressure switches. W. Goodman. diags Heating-Piping 14:347-50, 417-21 Je-Jl '42

Mechanism of flow of fluids through orifices; discussion of paper by J. M. Naiman. J. T. Cortelyou. Oil & Gas J 40:58-9, 61 D 11 '41

ORIGIN of species. See Species, Origin of

ORNAMENTAL glass. See Glass, Ornamental

ORNAMENTAL plastics. See Plastic materials, Decorative

ORNAMENTS (printing). See Printing—Design

ORNITHODOROS parkeri

Ornithodoros parkeri and relapsing fever spirochetes in southern Idaho. G. E. Davis. Pub Health Rep 57:1501-3 O 2 '42

Ornithodoros parkeri and relapsing fever spirochetes in Utah. G. E. Davis. map Pub Health Rep 56:2464-8 D 26 '41

Relapsing fever: ornithodoros parkeri a vector in California. G. E. Davis, H. L. Wynns and M. D. Beck. Pub Health Rep 56:2426-8 D 19 '41

ORNITHODOROS turicata

Ornithodoros turicata and relapsing fever spirochetes in New Mexico. G. E. Davis. map Pub Health Rep 56:2258-61 N 21 '41

ORNITHOPTERS

Biological and aerodynamical problems of animal flight. E. von Holst and D. Kuchemann. diags Roy Aeronautical Soc J 46:39-56 F '42

OROGENY. See Mountains

ORTHANILAMIDE

Solubilities of orthanilamide, metanilamide and sulfanilamide. R. H. Kienle and J. M. Sayward. Am Chem Soc J 64:2464-8 O '42

ORTHOEPY. See Pronunciation

ORTHOPHOSPHORIC acid. See Phosphoric acid

ORTON, Edward, jr. 1863-1932

Presentation of Edward Orton, jr. memorial tablet; address by W. L. Evans. Am Cer Soc Bul 21:145-7 Jl 15 '42

OSAGE orange

Osage orange pigments; improved separation; establishment of the isopropylidene group. M. L. Wolfrom and J. Mahan. Am Chem Soc J 64:308-11 F '42

Osage orange pigments; oxidation. M. L. Wolfrom and A. S. Gregory. Am Chem Soc J 63:3356-8 D '41

Osage orange pigments; oxidation. M. L. Wolfrom and S. M. Moffett. bibliog Am Chem Soc J 64:311-15 F '42

OSAJIN

Osage orange pigments; improved separation; establishment of the isopropylidene group. M. L. Wolfrom and J. Mahan. Am Chem Soc J 64:308-11 F '42

OSAZONES

Experiments on the formation of mixed osazones and their anhydrides. E. E. Percival and E. G. V. Percival. Chem Soc J p750-5 N '41

Identification of sugars by microscopic appearance of crystalline osazones. W. Z. Hassid and R. M. McCready. bibliog il Ind & Eng Chem Anal ed 14:683-6 Ag 15 '42

OSBORN, Henry Fairfield, 1857-1935

Unveiling of the bust of Henry Fairfield Osborn at the American museum of natural history. W. K. Gregory; J. R. Angell. Science 95:470-2 My 8 '42

OSCILLATIONS

Galloping Gertie bridge; abstract. N. Levinson. Science 95:sup10 Mr 6 '42

See also

Vibration

OSCILLATIONS, Electric

Analysis of feedback and prevention of oscillation in hf amplifiers. T. Chew. diags Radio N 27:14-15+ Je '42

Electrical oscillations of a perfectly conducting prolate spheroid. R. M. Ryder. bibliog J Ap Phys 13:327-43 My '42

History of electrical resonance. J. Blanchard. diags Bell System Tech J 20:415-33 bibliog(p431-3) O '41

Stability of oscillations in systems obeying Mathieu's equation. J. G. Brainerd. Franklin Inst J 233:135-42 F '42

Theory of the magnetron; oscillations in a split-anode magnetron. L. Brillouin. Phys R 62:166-77 Ag 1 '42

OSCILLATORS

Alternating-current apparatus for measuring dielectric constants. B. E. Hudson and M. E. Hobbs. diags R Sci Instr 13:140-3 Ap '42

Application of vacuum tube oscillators to inductive and dielectric heating in industry. J. P. Jordan. il diags Elec Eng 61:Trans 831-4 N '42; Excerpts. Elec W 118:1136+ O 3 '42

Controlled transitron oscillator. S. R. Jordan. diags Electronics 15:42-3 Jl '42

Electron tube oscillator for conductance measurements. B. E. Hudson and M. E. Hobbs. diag J Chem Educ 19:147 Mr '42

Excitation of cavity resonators by saw-tooth oscillations; abstract. W. Ludenia. Wireless Eng 19:422-3 S '42

General radio co.'s beat-frequency oscillator. il R Sci Instr 13:406-7 S '42

OSCILLATORS—*Continued*

Operation of frequency converters and mixers for superheterodyne reception. E. W. Herold. bibliog(54 titles) diags Inst Radio Eng Proc 30:84-103 F '42

Oscillator for remote frequency control. H. C. Lawrence. diags Electronics 15:42-3 S '42

RC oscillator analysis. W. B. Nottingham. diags Electronics 15:109-10 Jl '42

RC oscillators. E. W. Herold. bibliog Electronics 15:155-6 N '42

Radio frequency oscillator apparatus and its application to industrial process control equipment; abstract. T. A. Cohen. diag Electronics 15:68+ Ag '42

Retarding field oscillator. W. Alexander. bibliog Wireless Eng 19:143-7 Ap '42

Superheterodyne tracking charts. A. L. Green and R. Payne-Scott. bibliog diags Wireless Eng 19:243-50, 290-302 Je-Jl '42

Technique of frequency measurement, and its application to telecommunications. J. E. Thwaites and F. J. M. Laver. bibliog diags Inst E E J 89 pt 3:139-65; Discussion. 165-7 S '42

Ultra-high frequency oscillator type 757-A. diags R Sci Instr 12:614 D '41

Vacuum-tube-driven tuning-fork oscillator. diag R Sci Instr 13:84 F '42

Variable frequency bridge stabilized oscillators; abstract. W. G. Shepherd and R. O. Wise. diags Electronics 15:111-13 F '42

Wave form circuits for cathode ray tubes. H. M. Lewis. diags Electronics 15:44-8+ Jl '42

See also

Magnetron

Testing

Field strength meter for induction control. M. T. Putnam and S. F. Bushman. il diag Radio N 28:14-16+ Ag '42

Precision frequency comparisons. L. A. Meacham. diags Electronics 15:92+ Ap '42

OSCILLATORS, Crystal

Further studies on a molecular rearrangement induced by ultrasonic waves. E. W. Barrett and C. W. Porter. Am Chem Soc J 63:3434-5 D '41

New direct crystal-controlled oscillator for ultra-short-wave frequencies. W. P. Mason and I. E. Fair. il diags Inst Radio Eng Proc 30:464-72 O '42

Properties of quartz oscillators and resonators at audio and medium frequencies; abstract. L. Rohde and H. Handrek. Wireless Eng 18:473-4 N '41

Quartz plate with coupled liquid column as a variable resonator. F. E. Fox and G. D. Rock. diag Inst Radio Eng Proc 30:29-33 Ja '42; Abstract. Electronics 15:100+ Ap '42

Radio-frequency device for detecting the passage of a bullet. C. I. Bradford. il diags Inst Radio Eng Proc 29:578-83 N '41

Zero-beat method of frequency discrimination. C. F. Sheaffer. diags Inst Radio Eng Proc 30:365-7 Ag '42

OSCILLOGRAPHS

How to get clearer oscillograph films. E. J. Mommo. il Elec W 117:2250 Je 27 '42

Instrument for measuring surface roughness; utilizes Rochelle salt piezoelectric crystal, amplifier and oscillograph; Brush surface analyzer. C. K. Gravley. il diags Electronics 15:70-3 N '42

Optical oscillograph for engine investigations; abstract. K. J. DeJuhasz. diag Automotive & Aviation Ind 86:33 F 1 '42

Oscillogram scale printed on form. E. J. Mommo. il Elec W 117:833 Mr 7 '42

Oscillograph adapted for retracing improves records. R. W. Ahlquist. il diag Elec W 117:100 Ja 10 '42

Oscillograph starts on all faults. V. D. Hollis. diag Elec W 118:806 S 5 '42

Oscillography; magnetic oscillograph. J. E. Hancock. bibliog il Gen Elec R 45:527-31 S '42

William DuBois Duddell. diags Power Pl Eng 46:89 Jl '42

OSCILLOGRAPHS, Cathode ray

Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

Application of oscillograph to determination of cooling rates of quenched steels. C. R. Austin, R. M. Allen and W. G. Van Note. bibliog il diags Am Soc for Metals Trans 30:747-73; Discussion. 773-5 S '42

Applications of cathode ray tubes. B. Dudley. bibliog diag Electronics 15:49-52+ O '42

Auxiliary circuit for cathode-ray photography. H. C. Roberts. diag Electronics 15:59-60+ S '42

Cathode-ray method of wave analysis. V. O. Johnson. bibliog il Elec Eng 60:Trans 1032-6 D '41; Abstract. Electronics 15:84-6 Ja '42

CRO delayed single sweep circuit. W. E. Gilson. diag Electronics 15:65 Mr '42

Cathode-ray oscillograph for frequency comparisons. diags Electronics 15:94+ Ap '42

Cathode-ray oscilloscope impedance comparator. V. Salmon. diags Electronics 15:54+ F '42

Direct measurement of lightning current. J. W. Flowers. bibliog il diags Franklin Inst J 232:425-50 N '41

Du Mont giant demonstration oscillograph type 233. il R Sci Instr 13:85-6 F '42

Electrical characteristics of stroboscopic flash lamps. P. M. Murphy and H. E. Edgerton. il diags J Ap Phys 12:848-55 D '41

Flexible sweep circuit and deflection amplifier for cathode ray oscillographs. W. A. Geohegan. diags Electronics 14:38-9 D '41

Giant cathode-ray screen for demonstrations. il Product Eng 13:112 F '42

Injector-valve motion studies by the cathode-ray oscillograph. H. M. Fuller. diags Diesel Power 20:582-3 Jl '42

Measurement of torsional vibrations. R. Stansfield. diags Engineering 154:178-80, 198-200 Ag 28-S 4 '42; Same abr. Engineer 174:77-9, 101-2 Jl 24-31 '42; Discussion. Engineering 154:74 Jl 24 '42

Modern cathode-ray oscillograph for testing lighting arresters. E. J. Wade, T. J. Carpenter and D. D. MacCarthy. bibliog il diags Elec Eng 61:Trans 549-53 Ag '42

New instrument for analyzing electric transients. N. Rohats. il diag Gen Elec R 45:121-2 F '42; Abstract. Electronics 15:78+ My '42

Portable high-frequency square-wave oscillograph for television. R. D. Kell, A. V. Bedford and H. N. Kozanowski. il diags Inst Radio Eng Proc 30:458-64 O '42

Recording machinery noise characteristics. H. D. Brailsford. il diags Electronics 15:46-51+ N '42

Six-trace cathode-ray micro-oscillograph; abstract. von Ardenne. Wireless Eng 19:231-2 My '42

Surge propagation. T. F. Wall. diags Engineering 153:301-2 Ap 17 '42

Ten-megacycle oscilloscope; abstract. J. O. Edson. diags Electronics 15:72+ F '42

Time bases. O. S. Puckle. bibliog diags Inst E E J 89 pt 3:100-19 Je '42; Abstracts. Electrician 128:127-8 F 13 '42; Electronics 15:70+ Jl '42; Discussion. Inst E E J 89 pt 3:119-22 Je '42

Ultra-fast oscillograph; abstract. E. J. Wade, T. J. Carpenter and D. D. MacCarthy. Science 96:sup10 Jl 3 '42

Use of the oscillograph for testing fuel injection. P. H. Schweitzer. il diags Automotive Ind 86:26-30 Ja 1 '42

Wave form circuits for cathode ray tubes. H. M. Lewis. diags Electronics 15:44-8+ Jl; 48-53 Ag '42

OSCILLOSCOPES

Electronic method of measuring molecular lifetimes. R. D. Rawcliffe. il diags R Sci Instr 13:413-18 O '42

Panoramic reception for increased receiving efficiency; panoramic spectroscope adapter; continuous indication of radio signals within plus or minus 50 kc of tuned frequency of receiver. il diag Electronics 14:36-7+ D '41

OSCILLOSCOPES—*Continued*
Versatile oscilloscope. W. E. Gilson. bibliog il diag Electronics 14:22-4 D '41

OSGOOD, Wilfred Hudson, 1875-
Presentation of a testimonial volume. Science 95:65 Ja 16 '42

OSMIUM oxides
Polarographic reduction of osmium tetroxide. W. R. Crowell, J. Heyrovsky and D. W. Engelkemeir. diag Am Chem Soc J 63:2888-90 N '41

OSMOSIS
Increasing lime plasticity by electro-osmosis. F. C. Mathers and H. S. Wilson. Rock Prod 45:73-4 Mr '42
Simplified electrosmosis apparatus. J. D. Porter. bibliog diags J Chem Educ 19:533-6 N '42

OSMOTIC pressure
Action of light on cellulose; a method for the measurement of the osmotic pressure of colloidal solutions. R. E. Montonna and L. T. Jilk. bibliog diags J Phys Chem 45:1374-81 D '41
Some properties of solutions of long-chain compounds. M. L. Huggins. bibliog J Phys Chem 46:151-8 Ja '42

OSNABURG
Converting to cotton osnaburgs; suggestions to weavers. Textile World 92:67 Je '42

OSTEOMYELITIS
Cod liver oil ointment with sulfonamides in wounds and osteomyelitis. S. J. Wolferman and W. F. Adams. Ind Med 11:318-19 Jl '42
Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

OSTEOPATHY
Handbook of osteopathic technique. Los Angeles. College of osteopathic physicians and surgeons. 112p $2.50 College bookstore, 1726 Griffin av, Los Angeles '41

OSTIA
Ancient Ostia; archeologists unearth Rome's once-thriving seaport. A. A. Boyce. il Sci Am 166:70-2 F '42

OSTRACODA
Geology and biology of North Atlantic deep-sea cores between Newfoundland and Ireland; ostracoda. W. L. Tressler. il U S Geol S Professional Pa 196-C:95-104, pl 18-19; pa 15c Supt. of doc. '41

OSTRACODA, Fossil
Chester ostracodes of Illinois. C. L. Cooper. 101p bibliog(p65-6) pa 25c State geological survey, Urbana, Ill. '41

OTIS elevator company
Another look at your company. Mag of Wall St 70:155 My 16 '42
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:594 S 19 '42

OTIS steel company
Better than average operating record focuses attention on the bonds. Comm & Fin Chr 155:554 F 5 '42
Merger cushion; Jones & Laughlin considers absorption of Otis Steel. Business Week p34+ F 21 '42
Status of Otis Steel first 4½s, 1962 would be strengthened by proposed merger with Jones & Laughlin. Barron's 22:19-20 F 23 '42

OTTOMAN bank
Annual general meeting of the share-holders, London. Economist 141:665-6 N 29 '41

OUABAIN
Sterols; some observations on the structure of ouabain. R. E. Marker and others. Am Chem Soc J 64:720-1 Mr '42

OUTBOARD, marine and manufacturing company
Outstanding stocks for income and profit. Mag of Wall St 70:442 Ag 8 '42

OUTBOARD motors. See Gas and oil engines, Outboard

OUTDOOR advertising. See Advertising, Outdoor

OVEN thermometers. See Thermometers, Cooking

OVENS
Direct radiant drying speeds application of japan and other heavy synthetic finishes. D. A. Jacobson. il diag Steel 110:72, 74 F 23 '42
Temperature control for multiple-burner oven. diag Metal Finishing 40:484-5 S '42
See also
Coke ovens
Electric ovens
Gas ovens
Kilns

OVER-the-counter marketing. See Securities—Over-the-counter marketing

OVERDRAFTS
Dishonored items returned the day after receipt. Bankers Mo 59:250-3+ Je '42

OVERHEAD expense
Accounting for excess labor costs and overhead under conditions of increased production. N A C A Bul 22:1551-70 sec 3 Ag 15 '41; Abstract. Management R 31:59-61 F '42
Better business management under price ceilings. A. C. Kiechlin. Inland Ptr 110:69-70 O '42
Mr master plumber checks service costs. Dom Eng 159:53-4+ My '42
See also
Cost accounting

OVERPASSES. See Streets—Intersection

OVERPRODUCTION
See also
Production, Limitation of

OVERSAVING. See Saving

OVERTIME
Absences with pay and computing overtime. Bankers M 144:83-4 Ja '42
Absences with pay and overtime clarified. P. B. Fleming. Comm & Fin Chr 154:1572-3 D 18 '41
Accounting for excess labor costs and overhead under conditions of increased production. N A C A Bul 22:1551-70 sec 3 Ag 15 '41; Abstract. Management R 31:59-61 F '42
Bars double-time pay for week-end work. Comm & Fin Chr 156:992 S 17 '42
Double time pay helps enemy says Roosevelt. Comm & Fin Chr 155:1445 Ap 9 '42
Fix it yourselves; NWLB admonition to G.M. and union on Sunday pay. Business Week p74 Mr 7 '42
40 hour work week. Trusts & Estates 74:347-8 Ap '42
Overtime decisions. L. M. Walling. Comm & Fin Chr 155:2395 Je 25 '42
Overtime for exempt employees. Management R 31:253-4 Jl '42
Overtime-pay provisions under the Wage and hour law; decision in Belo case and Motor transportation company case. Monthly Labor R 55:103-6 Jl '42
Overtime pay rulings made by high court. Oil Paint & Drug Rep 141:3 Je 15 '42
Overtime provision of Public contracts act modified. Monthly Labor R 55:101 Jl '42
Pensions and overtime. T. W. Holland. Bankers M 144:250 Mr '42
Prohibition of double pay for Sunday and holiday work. Monthly Labor R 55:717-19 O '42
Sunday overtime? question raised by continuous plant operation. Business Week p76 F 7 '42
Sundayless week; West Coast shipyards. Business Week p65 Ja 31 '42
Supreme court rules over-time pay should be 150% of regular pay rate. Comm & Fin Chr 155:2313 Je 18 '42
Union pay demands retard production, NAM. Comm & Fin Chr 155:1048 Mr 12 '42
Wage-hour angle. Business Week p68 F 21 '42
Wage-hour loses; Supreme court's decision in Belo corp. case. Business Week p88-90 Je 13 '42
Warn against labor laws making disunity. W. Green; P. Murray. Comm & Fin Chr 155:1455 Ap 9 '42

OVERVOLTAGE

Critical analysis of rotating machine grounding practice. H. A. Peterson. Gen Elec R 45:215-20 Ap '42

Electrolytic reduction of organic compounds; bimolecular products from sorbic acid at a solid and a liquid gallium cathode: analogy with overvoltage. K. B. Wilson and C. L. Wilson. Chem Soc J p874-7 D '41

Fundamentals of science relating to electroplating; polarization-overvoltage. Metal Finishing 40:26-7 Ja '42

Studies on overvoltage; a study of hydrogen decomposition potentials under various conditions in acid solutions at platinized platinum electrodes. A. L. Ferguson and M. B. Towns. bibliog Electrochem Soc Trans 82 (preprint 26):301-17 O '42

Studies on overvoltage; decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. A. L. Ferguson and M. B. Towns. diags Electrochem Soc Trans 82 (preprint 25):285-99 O '42

Studies on overvoltage; long time charge and decay phenomena. A. L. Ferguson and H. Bandes. il Electrochem Soc Trans 81 (preprint 11):123-34 Ap '42

Studies on overvoltage; some unusual overvoltage phenomena. A. L. Ferguson and H. Bandes. bibliog il diags Electrochem Soc Trans 81 (preprint 10):105-22 Ap '42

OVOMUCOID

Nature of the carbohydrate residue in ovomucoid; hydrolysis of the methylated carbohydrate residue. M. Stacey and J. M. Woolley. Chem Soc J p550-5 S '42

OWENS-ILLINOIS glass company

Earnings, 1938-1941. Comm & Fin Chr 155:923-4 Mr 2 '42

Nine glass container firms are found guilty of anti-trust violations. Comm & Fin Chr 156:786 Ag 31 '42

Trade restraint charged. Comm & Fin Chr 155:1683 Ap 27 '42

OWLS

Role of the burrowing owl and the sticktight flea in the spread of plague. C. M. Wheeler, J. R. Douglas and F. C. Evans. Science 94:560-1 D 12 '41

OXALIC acid

Activity coefficients of the undissociated part of weak acids; oxalic acid. W. D. Larson and W. J. Tomsicek. bibliog Am Chem Soc J 63:3329-31 D '41

Rate of reduction of vanadium pentoxide in concentrated acid solutions; reduction of vanadium pentoxide by arsenious acid, oxalic acid, formaldehyde and ethyl alcohol. M. Bobtelsky and A. Glasner. bibliog Am Chem Soc J 64:1462-9 Je '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

Analysis

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

Manufacture

Oxalic acid from sawdust. D. F. Othmer and others. bibliog flow sheets il diags Ind & Eng Chem 34:262-79 Mr '42; Abstract. Chem & Met Eng 49:153 Ja '42

Prices

Oxalic acid price ceiling effective. Oil Paint & Drug Rep 141:3+ F 2 '42

OXALYL chloride

Carboxylation; the peroxide-catalyzed reaction of oxalyl chloride with the side-chains of aralkyl hydrocarbons; a preliminary study of the relative reactivity of free radicals. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:1621-4 Jl '42

Carboxylation; the photochemical and peroxide-catalyzed reactions of oxalyl chloride with paraffin hydrocarbons. M. S. Kharasch and H. C. Brown. bibliog Am Chem Soc J 64:329-33 F '42

Carboxylation; the reaction of oxalyl chloride with unsaturated hydrocarbons. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:333-4 F '42

OXAZOLES

2-Phenyloxazole and ortho-substituted derivatives. W. E. Cass. bibliog Am Chem Soc J 64:785-7 Ap '42

2-Phenyloxazole; *para*-substituted derivatives. J. J. Rosenbaum and W. E. Cass. Am Chem Soc J 64:2444-5 O '42

OXFORD university

Endowment of an institute of social medicine at Oxford. Science 96:128-9, 159 Ag 7-14 '42

OXIDASES

Mechanism of the ascorbic acid-ascorbic acid oxidase reaction; the hydrogen peroxide question. H. G. Steinman and C. R. Dawson. bibliog Am Chem Soc J 64:1212-19 My '42

Unsaturated fat oxidase; specificity, occurrence and induced oxidations. H. H. Strain. Am Chem Soc J 63:3542 D '41

OXIDATION

Absorption of oxygen by glutathione in alkaline solutions; kinetics of the reaction at *p*H 9 to 11. M. B. Young and H. A. Young. bibliog Am Chem Soc J 64:2282-7 O '42

Acids and bases; their relationship to oxidizing and reducing agents. W. F. Luder. bibliog J Chem Educ 19:24-6 Ja '42

Analytical procedures employing Karl Fischer reagent; reactions with inorganic oxides and related compounds; oxidation and reduction reactions. J. Mitchell, jr. and others. bibliog Am Chem Soc J 63:2927-30 N '41

Anodic oxidation of lead; suggested investigation method. Chem Age (Lond) 45:224 O 25 '41

Carbonyl compounds as oxidizing agents. H. Adkins. J Chem Educ 19:218-21 My '42

Catalytic oxidation of sulfite waste liquor by atmospheric oxygen. I. A. Pearl and H. K. Benson. bibliog Ind & Eng Chem 34:436-8 Ap '42

Compressed air for ammonia oxidation. D. G. Morrow. il Am Inst Chem Eng Trans 38:377-86 Ap '42

Device to demonstrate electronic transfer in redox reactions. L. F. LeRoy. diag J Chem Educ 19:236 My '42

Dielectric properties of hydrocarbons and hydrocarbon oils; influence of oxidation. J. C. Balsbaugh, A. G. Assaf and J. L. Oncley. bibliog Ind & Eng Chem 34:92-100 Ja '42

Effect of catalysis upon the oxidation products of hydroxylamine. T. H. James. bibliog Am Chem Soc J 64:731-4 Ap '42

Effect of inhibitors on the rate of oxidation of copper by oxygen in phosphoric acid solutions. R. W. Lawrence and J. H. Walton. J Phys Chem 46:609-16 Je '42

Erucic acid; preparation of erucic acid; general oxidation reactions; oxidation with gaseous oxygen. C. Dorée and A. C. Pepper. Chem Soc J p477-83 Ag '42

Estimation of COOH groups in commercial starches modified by oxidation; silver method; copper method. L. H. Elizer. Ind & Eng Chem Anal ed 14:635-6 Ag 15 '42

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

Further studies on the oxidation of nitric oxide; the rate of the reaction between carbon monoxide and nitrogen dioxide. F. B. Brown and R. H. Crist. bibliog diag J Chem Phys 9:840-6 D '41

Hydrolysis and catalytic oxidation of cellulosic materials; hydrolysis of mercerized cottons. R. F. Nickerson. bibliog Ind & Eng Chem 34:85-8 Ja '42

OXIDATION—*Continued*

Investigation of the properties of cellulose oxidized by nitrogen dioxide. C. C. Unruh and W. O. Kenyon. bibliog il Am Chem Soc J 64:127-31 Ja '42

Kinetics of the periodate oxidation of 1,2-glycols; ethylene glycol, pinacol and *cis*- and *trans*-cyclohexene glycols. C. C. Price and M. Knell. Am Chem Soc J 64:552-4 Mr '42

Kinetics of the trivalent vanadium-oxygen reaction. J. B. Ramsey, R. Sugimoto and H. DeVorkin. bibliog Am Chem Soc J 63:3480-6 D '41

Measurement of oxidation stability of road asphalts. A. P. Anderson, F. H. Stross and A. Ellings. bibliog Ind & Eng Chem Anal ed 14:45-9 Ja 15 '42

Nitrous acid as a nitrating and oxidising agent; reactions with the four 3-halogenodimethylanilines. H. H. Hodgson and D. E. Nicholson. Chem Soc J p766-70 N '41

Osage orange pigments; oxidation. M. L. Wolfrom and A. S. Gregory. Am Chem Soc J 63:3356-8 D '41

Osage orange pigments; oxidation. M. L. Wolfrom and S. M. Moffett. bibliog Am Chem Soc J 64:311-15 F '42

Oxidation and reduction of vitamin C. D. B. Hand and E. C. Greisen. bibliog Am Chem Soc J 64:358-61 F '42

Oxidation characteristics of lubricating oils; relation between stability and chemical composition. G. H. von Fuchs and H. Diamond. bibliog il diag Ind & Eng Chem 34:927-37 Ag '42

Oxidation characteristics of pure hydrocarbons. R. G. Larsen, R. E. Thorpe and F. A. Armfield. il diag Ind & Eng Chem 34:183-93 F '42

Oxidation of aliphatic hydrocarbons. G. Egloff, D. V. Nordman and P. M. Van Arsdell. bibliog Oil & Gas J 41:207-10 S 24; 35-6 O 1; 49, 51-3 O 8 '42

Oxidation of asphalt in thin films. A. R. Ebberts. bibliog il Ind & Eng Chem 34:1048-51 S '42

Oxidation of benzophenone oxime. W. M. Lauer and W. S. Dyer. bibliog Am Chem Soc J 64:1453-6 Je '42

Oxidation of *n*-butylboron oxide. O. Grummitt. bibliog diag Am Chem Soc J 64:1811-14 Ag '42

Oxidation of cellulose by nitrogen dioxide. E. C. Yackel and W. O. Kenyon. bibliog diags Am Chem Soc J 64:121-7 Ja '42

Oxidation of cellulose; the reaction of cellulose with periodic acid. H. A. Rutherford and others. bibliog Am Dyestuff Rep 31:399-400, 412-15 Ag 17 '42; Same. J Research Nat Bur Stand 29:131-41 Ag '42

Oxidation of hydroxyketostearic acids in presence of alcoholic alkali. T. P. Hilditch. and H. Plimmer. Chem Soc J p204-6 Mr '42

Oxidation of β-pinene with selenium dioxide. L. M. Joshel and S. Palkin. bibliog Am Chem Soc J 64:1008-9 Ap '42

Oxidation of triethylbismuth. G. Calingaert, H. Soroos and V. Hnižda. diags Am Chem Soc J 64:392-7 F '42

Oxidation of wool keratin by potassium dichromate. R. O. Donohue and R. Edgar. Am Dyestuff Rep 31:101-4, 123 bibliog (p123) Mr 2 '42

Oxidative cleavage of cyclic α-keto alcohols by means of lead tetraacetate. E. Baer. Am Chem Soc J 64:1416-21 Je '42

Oxidative degradation of L-glucoheptulose. N. K. Richtmyer and C. S. Hudson. Am Chem Soc J 64:1609-11 Jl '42

Oxidizing power of Illinois coal. G. R. Yohe, C. A. Harman and M. H. Wilt. bibliog Am Chem Soc J 63:555-6; 64:1809-11 F '41, Ag '42

Ozone as an analytical reagent; determination of iodides. H. H. Willard and L. L. Merritt, jr. Ind & Eng Chem Anal ed 14:489-90 Je 15 '42

Ozone as an analytical reagent; determination of vanadium, cerium, and manganese. H. H. Willard and L. L. Merritt, jr. bibliog diag Ind & Eng Chem Anal ed 14:486-9 Je 15 '42

Parabolic and logarithmic oxidation of copper. A. L. Dighton and H. A. Miley. Electrochem Soc Trans 81 (preprint 24):375-80 Ap '42

Photoöxidation of iodide ion sensitized by eosin; the effect of the oxygen concentration and of the light intensity. R. Livingston. bibliog diag J Phys Chem 46:233-8 F '42

Photoöxidation of methyl iodide. W. J. Blaedel, R. A. Ogg, jr. and P. A. Leighton. Am Chem Soc J 64:2500-1 O '42

Polarographic investigation of rhenium compounds; oxidation of -1 rhenium at the dropping electrode and the potential of the Re^{+2}-Re^{-1} couple. J. J. Lingane. bibliog diag Am Chem Soc J 64:2182-90 S '42

Potentiometric study of the oxidation of phenylhydrazine by cupric ions, including the titration of Fehling's solution with phenylhydrazine. H. T. S. Britton and E. M. Clissold. Chem Soc J p528-31 Ag '42

Preparation of lower aldonic acids by oxidation of sugars in alkaline solution. H. S. Isbell. bibliog J Research Nat Bur Stand 29:227-32 S '42

Rate of oxidation of copper at room temperature. A. H. White and L. H. Germer. bibliog il Electrochem Soc Trans 81 (preprint 9):91-104 Ap '42; Abstract. Metal Prog 42:962+ N '42

Rate of oxidation of typical nonferrous metals as determined by interference colors of oxide films. D. J. McAdam, jr. and F. W. Geil. J Research Nat Bur Stand 28:593-635 bibliog(p612-13) My '42

Reactions of β-pinene; with selenium dioxide in various solvents. W. D. Stallcup and J. E. Hawkins. bibliog Am Chem Soc J 63:3339-41 D '41

Reactivity of amalgams. H. A. Liebhafsky and A. F. Winslow. Am Chem Soc J 63:3137-42 N '41

Rearrangements of pyrrole rings in the oxidation of dipyrrylmethanes. A. H. Corwin and K. J. Brunings. bibliog Am Chem Soc J 64:2106-15 S '42

Relation of surface oxidation to certain defects in enamel coatings on steel. C. A. Zapffe and J. L. Yarne. il Am Cer Soc J 25:191-4 Ap 1 '42

Semimicrodetermination of carbon using the Van Slyke-Folch oxidation mixture. R. M. McCready and W. Z. Hassid. diags Ind & Eng Chem Anal ed 14:525-6 Je 15 '42

Some observations on the formation and stability of oxide films. E. A. Gulbransen. bibliog Electrochem Soc Trans 82 (preprint 19):209-21 O '42

Some observations on the oxidation and determination of the molecular weight of polynuclear aromatic compounds. W. P. Campbell, M. D. Soffer and T. R. Steadman. bibliog Am Chem Soc J 64:425-8 F '42

Some studies on L-glucoheptulose. W. D. Maclay, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1606-9 Jl '42

Speed of oxidation of nitric oxide in mixtures of oxygen and nitrogen. F. H. Peakin. Soc Chem Ind J 60:253-4 O '41

Sterols; sapogenins; oxidation products of sarsasapogenin: keto-sarsasapogenin. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:813-16 Ap '42

Sterols; sapogenins; the structure of the dibasic acid obtained by the permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:147-9 Ja '42

Sterols; sapogenins; the structure of the side chain of sarsasapogenin; the identification of the acid obtained by the haloform reaction on the dibasic acid from the potassium permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:180-1 Ja '42

Sterols; the hypoiodite oxidation of pregnanolones and pregnenolones. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1842-3 Ag '42

OXIDATION—*Continued*

Studies in the sterol group; the oxidation of phytosterols with the Oppenauer reagent. E. R. H. Jones, P. A. Wilkinson and R. H. Kerlogue. Chem Soc J p391-3 Je '42

Theory of oxidation and tarnishing of metals; growth laws under more general conditions. O. H. Hamilton and H. A. Miley. bibliog Electrochem Soc Trans 81 (preprint 31):445-53 Ap '42

Theory of oxidation and tarnishing of metals; the linear, parabolic and logarithmic laws. H. A. Miley. bibliog Electrochem Soc Trans 81 (preprint 14):173-86 Ap '42

Thin oxide films on iron; vacuum microbalance technic. E. A. Gulbransen. bibliog diags Electrochem Soc Trans 81 (preprint 15):187-97 Ap '42

Tracer studies with radioactive carbon and hydrogen; the synthesis and oxidation of fumaric acid. M. B. Allen and S. Ruben. bibliog Am Chem Soc J 64:948-50 Ap '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

See also

Combustion

Corrosion and anticorrosives

Autoxidation

Autoxidation of manganous hydroxide. A. R. Nichols, jr. and J. H. Walton. bibliog Am Chem Soc J 64:1866-70 Ag '42

Course of autoxidation reactions in polyisoprenes and allied compounds; hydroperoxidic structure and chain scission in low-molecular polyisoprenes. E. H. Farmer and D. A. Sutton. Chem Soc J p139-48 F '42

Course of autoxidation reactions in polyisoprenes and allied compounds; the structure and reactive tendencies of the peroxides of simple olefins. E. H. Farmer and A. Sundralingam. Chem Soc J p121-39 F '42

Influence of hydroxyl ion concentration on the autoxidation of hydroquinone. J. R. Green and G. E. K. Branch. Am Chem Soc J 63:3441-4 D '41

Oxidation processes; the effect of silver on the autoxidation of some photographic developing agents. A. Weissberger and D. S. Thomas, jr. bibliog Am Chem Soc J 64:1561-7 Jl '42

OXIDATION, Electrolytic

Oxidation of cerous sulfate at a rotating anode. J. L. Culbertson and C. Rutkowski. Electrochem Soc Trans 81 (preprint 3):27-32 Ap '42

Oxidation of raw starch granules by electrolysis in alkaline sodium chloride solution. F. F. Farley and R. M. Hixon. bibliog il Ind & Eng Chem 34:677-81 Je '42

OXIDATION reduction indicators

Ruthenium dipyridyl, a new oxidimetric indicator. J. Steigman, N. Birnbaum and S. M. Edmonds. Ind & Eng Chem Anal ed 14:30 Ja 15 '42

OXIDATION reduction potential. See Potential, Electric

OXIDES

Analytical procedures employing Karl Fischer reagent; reactions with inorganic oxides and related compounds; oxidation and reduction reactions. J. Mitchell, jr. and others. bibliog Am Chem Soc J 63:2927-30 N '41

Catalytic mullitization of kaolinite by metallic oxide. C. W. Parmeleé and A. R. Rodriguez. bibliog il Am Cer Soc J 25:1-10 Ja '42

Crystallographic structure of alkaline-earth oxide mixtures: investigations on oxide cathodes with the help of Röntgen rays and electron beams; abstract. H. Huber and S. Wagener. Wireless Eng 19:270-1 Je '42

Development of leadless glazes containing fluorides. P. M. Corbett and N. J. Kreidl. bibliog Cer Ind 39:46, 48+ Ag; 64, 66, 68 S '42

Glassforming nature of oxides with special reference to tantala, titania, and beryllia. K. Sun and A. Silverman. bibliog Am Cer Soc J 25:97-100 F 15 '42

Rate of film formation on metals. B. Lustman. bibliog il Electrochem Soc Trans 81 (preprint 8):75-90 Ap '42

Rate of oxidation of typical nonferrous metals as determined by interference colors of oxide films. D. J. McAdam, jr. and F. W. Geil. J Research Nat Bur Stand 28:593-635 bibliog(p612-13) My '42

Sulfur dioxide as a raw material; chlorination of metal oxides with sodium chloride and sulfur dioxide. H. F. Johnstone and R. W. Darbyshire. bibliog diag Ind & Eng Chem 34:280-6 Mr '42

Thin oxide films on iron; vacuum microbalance technic. E. A. Gulbransen. bibliog diags Electrochem Soc Trans 81 (preprint 15):187-97 Ap '42

See also

Alumina

Ethers

Iron oxides

Lime

Magnesia

Nitrogen oxides

Peroxides

Silica

OXIMES

Amperometric titration of copper with benzoinoxime. A. Langer. bibliog Ind & Eng Chem Anal ed 14:283-5 Mr 15 '42

Azo-group as a chelating group; metallic derivatives of arylazo-oximes and of formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p823-6 D '41

Chromatography of *cis* and *trans* benzoin and anisoin oximes with application of the brush method. L. Zechmeister, W. H. McNeely and G. Sólyom. bibliog Am Chem Soc J 64:1922-4 Ag '42

Determination of palladium with beta-furfuraldoxime. J. R. Hayes and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14:491-3 Je 15 '42

Oxidation of benzophenone oxime. W. M. Lauer and W. S. Dyer. bibliog Am Chem Soc J 64:1453-6 Je '42

OXIMETERS

Oximeter, an instrument for measuring continuously the oxygen saturation of arterial blood in man. G. A. Millikan. il diags R Sci Instr 13:434-44 O '42

Tales told by ears; oxygen saturation of an aviator's blood, which determines his efficiency, is quickly measured. A. Klemin. il Sci Am 167:86 Ag '42

OXINDOLE

Monothiophthalimide and some derivatives of oxindole. J. C. Porter, R. Robinson and M. Wyler. Chem Soc J p620-4 O '41

OXINE. See Hydroxyquinoline

OXONIUM compounds

Hydration of unsaturated compounds; the oxonium complex constant of mesityl oxide. D. Pressman, L. Brewer and H. J. Lucas. bibliog Am Chem Soc J 64:1117-22 My '42

Hydration of unsaturated compounds; the role of the oxonium complexes in the hydration of mesityl oxide and the dehydration of diacetone alcohol. D. Pressman, L. Brewer and H. J. Lucas. Am Chem Soc J 64:1122-8 My '42

OXYACETYLENE apparatus

Are you wasting oxygen? G. V. Slottman. il Blast F & Steel Pl 30:646-7 Je '42; Aero Digest 41:170, 172 Jl '42; Heating-Piping 14:406 Jl '42; Mach 48:263 Jl '42; Marine Eng 47:132, 134 Je '42; Oil & Gas J 41:50 Je 18 '42; Welding J 21:371-2 Je '42; Coal Age 47:81, 83-4 Ag '42

OXYACETYLENE apparatus—*Continued*

Common-sense conservation in welding practices. il Automotive & Aviation Ind 86:31+ Je 15 '42

Gas cutting and welding practices. il Ry Mech Eng 116:261 Je '42

How to save oxyacetylene. il Eng N 128:873 My 21 '42; Aviation 41:125 Je '42; Factory Management 100:119 Je '42; Power 86:409-10 Je '42; Am Mach 86:494-5 My 28 '42

OXYACETYLENE cutting

Billet cutting for steel forgings. H. E. Rockefeller. il diags Welding J 21:83-9 F '42

Correct procedures vs common faults in hand-cutting; illustrations. H. H. Moss. Welding J 21:119 F '42

Correct use vs. common faults with the hand torch; illustrations. Power Pl Eng 46:93 Ap '42

Cutting and welding methods speed production; oxy-acetylene cutting and Unionmelt electric welding. il Marine Eng 47:227 O '42

Divergent tip for oxyacetylene cutting. R. F. Helmkamp. il diag Marine Eng 47:96-100 F '42

Factors affecting the accuracy of ordnance machine cutting. H. G. Hughey and A. H. Yoch. diags Welding J 21:684-90 O '42; Abstract. Iron Age 150:51 O 22 '42

Flame cutting and electric welding in shipbuilding. C. A. Rober. il Metal Prog 40:753-4 N '41

How to cut heavy steel sections. R. B. Aitchison. il diags Welding J 21:395-8 Je '42

How to torch-groove steel; illustrated instructions. Power 86:56 Ja '42

Improving the accuracy of hand-cutting operations. H. H. Moss. il Welding J 21:261-5 Ap '42

Jigs for flame cutting curved surfaces; fabrication of sugar crystallizers. C. N. Holwill and A. N. Kugler. il Welding J 21:609-10 S '42

Machine flame cutting shipbuilding. E. R. McClung and H. L. Wagener. il Welding J 21:105-11 F '42

Machine gas cutting in the railroad shop. il Ry Mech Eng 116:266-7 Je '42

Oxyacetylene cutting speeds war production. R. F. Helmkamp and A. H. Yoch. il Welding J 21:252-5 Ap '42

Oxy-acetylene flame-priming of line pipe; other oxy-acetylene applications. F. C. Hutchison. il Pet Eng 13:120, 122 Mr '42

Oxy-acetylene in war production; abstract. J. H. Zimmerman. Metals & Alloys 16:324 Ag '42

Oxyacetylene machine cutting; new development in torch tip design. A. H. Yoch. il diag Steel 110:93-4 F 16 '42

Oxy-acetylene tip with divergent nozzle increases cutting speed. il Blast F & Steel Pl 30:264 F '42

Oxyacetylene welding and cutting in paper mill maintenance. E. H. Ambach. il diags Paper Ind 24:271-4+ Je '42

Production of armoured fighting vehicles. W. E. Woodward. il Engineer 173:251-2 Mr 20 '42

Production welding and cutting at West Coast yards. G. V. Slottman. il Marine Eng 47:218-26 O '42

Survey of welding and cutting in ship construction. F. G. Outcalt and J. M. Keir. il diags Welding J 21:5-8 Ja '42; Same cond. Iron Age 149:38-41 Ja 15 '42; Same cond. Steel 110:93, 96+ Mr 16 '42

Use more preheat for bevel-cutting. B. H. Higgs. il Welding J 20:786 N '41

Welding and metal cutting. E. Molloy, ed. 112p $2.50 Chemical pub. co. '42

What effect do light rays from arc welding or flame cutting have on eyes? H. F. Ingersoll. Welding J 21:320-1 My '42

Study and teaching

Training of oxyacetylene welding and cutting operators. D. E. Roberts. Welding J 20:840-4 D '41

Training oxy-acetylene welding and cutting operators. 87p pa 25c; de luxe ed 75c C. W. Obert, sec, International acetylene assn, New York '41

OXYACETYLENE flame

Conserving alloy steels by flame hardening. il Iron Age 150:48 Jl 16 '42

Flame descaling minimizes surfacing time and costs. E. W. Deck. il Steel 110:81, 84 Je 1; 86, 88+ Je 8 '42

Flame hardening cylindrical surfaces. S. Smith. il diags Steel 111:76, 82+ Jl 20; 92, 95+ Ag 3 '42

Flame hardening in the railroad shop. il Ry Mech Eng 116:268-9 Je '42

Flame hardening of round surfaces. S. Smith. il diags Welding J 21:443-8 Jl '42

Flame preheating and stress relieving arc-welded high-pressure pipe lines; use of oxyacetylene and propane. P. T. Onderdonk and W. Peterson. il diags Welding J 21:96-101 F '42

Flame-priming as a method of removing rust, scale and tubercles from pipe interiors, tank walls, etc. il Water Works & Sewerage 89:444 O '42

Flame priming for inspecting or cleaning corroded steel. W. L. Nelson. il Oil & Gas J 41:65 My 28 '42

Flame-priming method of preparing steel surfaces for painting. E. W. Deck. bibliog il diags Iron Age 150:80-2 O 22; 44-8 O 29 '42

Flame-priming steel for painting. il Metal Finishing 40:395, 397 Jl '42

Flame-priming steel for painting. E. W. Deck. il Metals & Alloys 16:708 O '42

Flame-processing; flame-hardening, flame-softening, flame-cutting, flame-scarfing, flame-cleaning, etc.; composite of abstracts. Metals & Alloys 15:148+ Ja '42

Flame-straightened I-beams. il Eng N 128:566 Ap 9 '42

Flame straightening. C. W. Hale. diags Steel 110:85+ My 4 '42

It's done with gas; vital role of oxygen and the acetylenes in the war effort. il Business Week p50+ My 30 '42

Modern uses of oxygen. G. O. Carter and H. F. Reinhard. il J Chem Educ 19:91-5 F '42

Oxyacetylene applications in intensified industrial program. W. S. Walker. il Welding J 21:179-83 Mr '42

Oxyacetylene flame hardening (cont). J. G. Magrath. il diags Am Mach 85:1260-3, 1317-19; 86:8-11, 54-7, 107-9, 178-80, 217-19 D 10 '41-Ja 8, F 5-Mr 19 '42; Abstract. Metals & Alloys 15:656+, 854+ Ap-My '42

Oxy-acetylene flame-priming of line pipe; other oxy-acetylene applications. F. C. Hutchison. il Pet Eng 13:120, 122 Mr '42

Oxy-acetylene in war production; abstract. J. H. Zimmerman. Metals & Alloys 16:324 Ag '42

Practical application of flame hardening. A. L. Hartley. il diags Mech Eng 64:531-40 Jl '42

Shaft straightening with the blowpipe. A. B. Gordon. diags Power Pl Eng 46:110 Jl '42

Tests show effectiveness of flame cleaning structural steel. E. A. Tice. il Steel 110:64, 67-8 F 9 '42

Torch derusts penstock for painting; abstract. Eng N 129:39 Jl 2 '42

OXYACETYLENE welding

CO_2 displacement of air aids in welding transformer. W. Fitzstephens. diag Elec W 117:670 F 21 '42

Care of flux in light alloy welding. diags Iron Age 150:49-52 Jl 16 '42

Control procedure of torch welding in aircraft. E. Dudley. bibliog diags Aeronautical Eng R 1:21, 23-5, 27 Jl '42

Fluxes for oxy-acetylene welding and brazing. H. E. Landis, jr. and F. C. Saacke. Metal Prog 41:203 F '42

Gas and resistance welding the aircraft alloy SAE X-4130. H. Lawrence. il Steel 109:84-5, 88, 90+ N 17 '41

Gas welding; job training units. 92p Am. technical soc, Chicago '42

OXYACETYLENE welding—*Continued*

Gas welding NE 8630 steels; abstract. A. R. Lytle and K. H. Koopman. Iron Age 150: 49-50 O 22 '42

Gas welding of cast iron. il Iron Age 150:58-62 Ag 6 '42

How to avoid cracks in welds. A. K. Seemann. il diags Steel 110:78, 80 Ap 20 '42

How welding keeps worn quarry drills off the scrap pile. il Concrete (mill sec) 50:128 F '42

Low temperature welding with eutectic alloys; Castolin. il Aero Digest 41:182+ Ag '42

Metallographic investigations and bending fatigue tests on welded thin plates of high tensile steel. R. Mailänder, W. Szubinski and H. J. Wiester. diags Welding J 21:sup30-3 Ja '42

New lease of life for wearing parts by gas welding; quick summary of resurfacing processes. Power 86:398-9 Je '42

New mercury-vapor power plant; Kearny plant; specifications for welding boiler tubes. A. R. Smith and E. S. Thompson. Steel 110:87-8 Ja 12 '42

Oxy-acetylene flame-priming of line pipe; other oxy-acetylene applications. F. C. Hutchison. il Pet Eng 13:120, 122 Mr '42

Oxyacetylene pressure welding of railroad rails. L. Adams. il Welding J 20:769-75 N '41

Oxyacetylene welding and cutting in paper mill maintenance. E. H. Ambach. il diags Paper Ind 24:271-4+ Je '42

Oxy-acetylene welding and cutting; learning units, rules, standards. J. W. Giachino. 196p $2.50; text ed $1.96 Manual arts press '42

Procedure control for aircraft welding. A. K. Seemann. il diags Aviation 40:66-7+ N; 116-17, 210 D '41

Production of armoured fighting vehicles. W. E. Woodward. il Engineer 173:251-2 Mr 20 '42; Abstract. Metal Prog 41:700+ My '42

Production welding and cutting at West Coast yards. G. V. Slottman. il Marine Eng 47:218-26 O '42

Reclaiming copper tubes by welding. il Ry Mech Eng 116:382-3 S '42

Reclaiming twist drills. G. E. Greaser. il Welding J 21:556-7 Ag '42

Repairs of locomotive parts by welding; L. M. S. railway. il Engineering 154:30 Jl 10 '42

Tentative specifications for iron and steel gas-welding rods. diags Welding J 21:598-600 S '42

Welding chromium steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. bibliog il diags Welding J 21:sup353-84, sup389-415 Ag-S '42

Welding in construction and maintenance of aircraft. A. K. Seemann. il diags Aero Digest 40:187-8, 191-2, 195 Ja '42; Same. Welding J 21:437-42 Jl '42

Welding in railway maintenance. Eng N 127: 797 D 4 '41

Welding, its application to aircraft. F. H. Stevenson. il diags Welding J 21:676-82 O '42

What happens when you weld steel? P. E. Timmerman. Welding J 21:315-16 My '42

Yoder automatic tube welder. A. Kellock. il Metal Prog 41:683-4 My '42

Study and teaching

Training of oxyacetylene welding and cutting operators. D. E. Roberts. Welding J 20:840-4 D '41

Training oxy-acetylene welding and cutting operators. 87p pa 25c; de luxe ed 75c C. W. Obert, sec, International acetylene assn, New York '41

OXYCELLULOSE

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

Oxidation of cellulose; the reaction of cellulose with periodic acid. H. A. Rutherford and others. bibliog Am Dyestuff Rep 31: 399-400, 412-15 Ag 17 '42; Same. J Research Nat Bur Stand 29:131-41 Ag '42

OXYGEN

Corrosion of steel by dissolved carbon dioxide and oxygen. G. T. Skaperdas and H. H. Uhlig. bibliog diag Ind & Eng Chem 34: 748-54 Je '42

Effects of oxygen on respiration, fermentation and growth in wheat and rice. D. L. Taylor. Science 95:129-30 Ja 30 '42

Inflammability of ether-oxygen-helium mixtures; their application in anesthesia. G. W. Jones, R. E. Kennedy and G. J. Thomas. U S Bur Mines Rep of Invest 3589: 1-15, pl 1 '41

Mechanism of the thermal reaction between hydrogen and oxygen. G. von Elbe and B. Lewis. bibliog diag J Chem Phys 10:366-93 Je '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Reactions involving oxygen, amalgams and hydrogen peroxide. H. A. Liebhafsky. Am Chem Soc J 64:852-6 Ap '42

Some aspects of the rate of reaction of oleic acid with oxygen. J. L. Henderson and H. A. Young. bibliog il J Phys Chem 46:670-84 Je '42

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8): 95-100 O '42

Studies on oxygen absorption induced by ether linkages; rates of oxygen absorption by dioxolane and methyldioxolane. R. R. Legault and D. C. Lewis. bibliog Am Chem Soc J 64:1354-6 Je '42

Unsensitized slow combination of hydrogen and oxygen between the second and third explosion limits in the temperature range 500-560°C. F. S. Dainton. J Chem Phys 9: 826-7 N '41

See also

Oxidation
Oxides
Ozone

Analysis

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

Audit of the carbon, oxygen and hydrogen in an iron blast furnace. J. S. Fulton. Blast F & Steel Pl 30:83-8, 233-7, 339-44 Ja-Mr '42

Dissolved oxygen recordings with the dropping mercury electrode. R. S. Ingols. bibliog il Ind & Eng Chem Anal ed 14:256-8 Mr 15 '42

Measuring the concentration of dissolved oxygen in dairy products; a voltammetric method. G. H. Hartman and O. F. Garrett. bibliog diag Ind & Eng Chem Anal ed 14: 641-4 Ag 15 '42

Preparation of chromous chloride solution for determination of oxygen in gas. A. E. Sands. Am Gas Assn Mo 24:285-6 Jl-Ag '42

Studies of sewage purification; determination of dissolved oxygen in activated sludge-sewage mixtures. C. C. Ruchhoft and O. R. Placak. bibliog Pub Health Rep 57:1047-60 Jl 17 '42

Third report of the oxygen sub-committee of the committee on the heterogeneity of steel ingots. bibliog diags Iron & Steel Inst J 143:295-387, pl 48-9 no 1 '41; Summary. Engineering 151:415-16 My 23 '41; Discussion. Iron & Steel Inst J 143:388-99 no 1 '41

Industrial applications

It's done with gas; vital role of oxygen and the acetylenes in the war effort. il Business Week p50+ My 30 '42

Oxygen for everyone, if—. il Ry Age 113:133 Jl 25 '42

OXYGEN—Industrial applications—*Continued*

Stop waste of welding gases. il Factory Management 100:119 Je '42; Eng N 128:873 My 21 '42

See also

Oxyacetylene flame

Isotopes

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

Physiological effect

Gas exchange in the lungs at high altitudes. D. B. Dill and F. G. Hall. J Aeronautical Sci 9:220-3 Ap '42

OXYGEN, Liquid

Diffraction of X-rays by liquid oxygen. P. C. Sharrah and N. S. Gingrich. bibliog diag J Chem Phys 10:504-7 Ag '42

Practical fire-sensitivity of liquid-oxygen explosives treated with fire-retardants. A. R. T. Denues. U S Bur Mines Rep of Invest 3605:1-6 '41; Same. Eng & Min J 143:163-4 F '42

OXYGEN apparatus

Making aircraft oxygen cylinders; illustrations. Metals & Alloys 15:981-7 Je '42

Multiple-supply automatic oxygen regulator. Instruments 15:232 Je '42

Shatter-proof non-bursting oxygen tanks for airmen. il Sci Am 165:337 D '41

OXYGEN cutting

Divergent nozzle tips for economical oxygen cutting. J. J. Crowe, G. M. Deming and J. K. Hamilton. il diags Welding J 21: sup34-43 Ja '42

See also

Oxyacetylene cutting

OXYGEN deficiency

Anoxia: its effect on the body. E. J. Van Liere. 269p bibliog(p249-54) $3 Univ. of Chicago press '42

Anoxic considerations in the diagnosis and treatment of craniocerebral injuries. F. Schreiber. Ind Med 11:383-4 Ag '42

Auditory sensitivity under conditions of anoxia; a study of speech intelligibility. C. P. Seitz and G. M. Smith. bibliog J Aeronautical Sci 9:478-80 O '42

Life in the Andes and chronic mountain sickness. C. Monge. Science 95:79-84 Ja 23 '42

OXYHYDROGEN welding

Control procedure of torch welding in aircraft. E. Dudley. bibliog diags Aeronautical Eng R 1:21, 23-5, 27 Jl '42

OYSTER shells

Mathieson right to oyster-shell burning process upheld. Chem & Eng N 20:328 Mr 10 '42

OYSTERS

Controlling pollution of oyster-growing waters of Chesapeake bay. G. L. Hall. il maps Civil Eng 11:715-17 D '41

OZENFANT, Amédée, 1886-

Twelve artists in U.S. exile. Fortune 24:105 D '41

OZONATION

Stereochemistry of catalytic hydrogenation; the assignment of *cis-* and *trans*-configurations. R. P. Linstead, S. B. Davis and R. R. Whetstone. Am Chem Soc J 64:2009-14 S '42

OZONE

Allies of refrigeration in food preservation. A. W. Ewell. Refrig Eng 43:160-1 Mr '42

Electrolytic ozone production and anodic overvoltage; abstract. E. Briner and A. Yalda. Chem & Met Eng 49:171 Jl '42

Non-toxicity of ozone. Can Chem & Process Ind 25:682 D '41

Ozone as an analytical reagent; determination of iodides. H. H. Willard and L. L. Merritt, jr. Ind & Eng Chem Anal ed 14: 489-90 Je 15 '42

Ozone as an analytical reagent; determination of vanadium, cerium, and manganese. H. H. Willard and L. L. Merritt, jr. bibliog diag Ind & Eng Chem Anal ed 14:486-9 Je 15 '42

Ozone in ventilation and air conditioning. J. A. Robinson. il Heating-Piping 13:759-60 D '41

Ozone; still much to be learned about its effects. C. E. Thorp. Sci Am 166:241 My '42

Reactions in solutions containing O_3, H_2O_2, H^+ and Br^-; the specific rate of the reaction $O_3 + Br^- \rightarrow$. H. Taube. Am Chem Soc J 64:2468-74 O '42

See also

Ozonizers

Water purification—Ozone treatment

OZONE treatment. See Water purification—Ozone treatment

OZONIDES

Decomposition of ozonides with Raney nickel. N. C. Cook and F. C. Whitmore. Am Chem Soc J 63:3540 D '41

OZONIZERS

Mobile ozone unit for water purification. il Eng N 127:807 D 4 '41; Water Works & Sewerage 88:sup76-7 D '41; Sci Am 166:192 Ap '42

Ozonation at Whiting, Ind.; with cost data. J. F. Bartuska. flow diag il Am Water Works Assn J 33:2035-50 N '41

Ozone as a water purifier in America. il diags Engineer 173:541-3 Je 26 '42

P

PACIFIC advertising association

Pacific Coast advertising fights for American way of life and business; three-year educational program. D. Belding. Ptr Ink 198: 23-4+ Ja 30 '42

PACIFIC coast

Adjusted for war; business on West coast is made laboratory example in meeting blackout problem and other emergencies. il Business Week p19-20+ D 20 '41

Dim-out order on Pacific coast. il diags Elec West 89:60-1 Jl '42

Pacific Coast business readjusting for war of several years' duration. Comm & Fin Chr 155:1531 Ap 16 '42

Pacific Coast dimout ordered. Elec W 118: 458 Ag 8 '42

Yearbook of the Association of Pacific Coast geographers. v7 55p pa $1 Assn. of Pacific Coast geographers, Cheney, Washington '41

Industries and resources

Westward empire; is the U.S. West coast to become a great industrial region and heart of a Pacific trade empire? il Fortune 26:88-97+ Jl '42

PACIFIC coast economic association

Proceedings of the twentieth annual conference at the University of southern California, Los Angeles, Dec. 29-30, 1941. C. Kerr, ed. 97p pa $1.50 College of economics & business, Univ. of Washington, Seattle '42

PACIFIC coast electrical association

Fall meeting, Fresno, Calif. Nov. 6-7. Elec West 87:54-8, 60 D '41

Meeting, Fresno, May 28-29. Elec W News ed 117:1993-4 Je 6 '42; Elec West 88:114-19 Je '42

Meeting, Fresno. Elec W 118:1456-7 O 31 '42

PACIFIC coast gas association

Technical conference, Los Angeles, May 21-22. Am Gas J 156:37 Je '42

PACIFIC coast maritime industry board

Pacific coast maritime industrial board created. For Comm W 6:40 Mr 28 '42

Peace in the West Coast shipping industry. P. Eliel. Ann Am Acad 224:147-51 N '42

PACIFIC countries
Economic survey of the Pacific area. K. J. Pelzer and others. v 1-2 215p;208p ea $2 Inst. of Pacific relations, New York '41-'42
Primer of the Pacific area. F. D. Schultheis and J. M. Maki. 73p pa 60c Far Eastern dept, Univ. of Washington, Seattle '41
See also
Pan Pacific relations

PACIFIC gas and electric company
Bonds offered. Comm & Fin Chr 154:1269 N 29 '41
Consolidated income statement, 1940 and 1941. Comm & Fin Chr 156:346 Jl 27 '42
Preferred stock offered. Comm & Fin Chr 154:1057 N 15 '41

PACIFIC indemnity company
Company analysis. Spectator (Property ed) 8:30-2 O 29 '42

PACIFIC lighting corporation
Brief description. O. Ely. Pub Util 29:694-6 My 21 '42

PACIFIC mutual life insurance company
Examination report. East Underw 43:6 S 11 '42; Nat Underw 46:22 S 10 '42
Pacific Mutual Life to restore some of non-can benefits. East Underw 43:1+ O 16 '42; Nat Underw (Life ed) 46:1 O 16 '42

PACIFIC national fire insurance company, San Francisco
Company analysis. Spectator (Property ed) 7:30-1 N 27 '41

PACIFIC ocean
Fight for the Pacific. M. J. Gayn. 378p $3.50 Morrow '41
See also
Humboldt current
Islands of the Pacific

Maps

Captain Bryan's Pacific war atlas. E. H. Bryan, jr. 26 maps pa 75c Tongg pub. co, Honolulu, Hawaii '42

PACIFIC telephone and telegraph company
Consolidated income statement, 1938-1941. Comm & Fin Chr 155:1124 Mr 16 '42

PACIFISM
See also
Peace

PACKAGE design
All-America winners use plastics; winners in the eleventh All-America package competition. il Mod Plastics 19:58-9 Ap '42
Award winners, 11th annual all-America package competition. il Mod Packaging 15:121-284 Ap '42
Cartoon cartons for soap. il Mod Packaging 16:56-7+ S '42
Cosmetic kits hit wartime stride. il Mod Packaging 16:62-3+ O '42
Design histories. Published in monthly numbers of Modern packaging
Designing to sell. il Sales Management 50:64, 66 F 1 '42 [cont monthly]
Forecast of 1942 gift lines. il Mod Packaging 15:39-44 Je '42
Gay dress for cosmetics despite restrictions. il Mod Packaging 16:58-60+ N '42
Huyler expands with an eye to war economy. il Mod Packaging 15:54, 56 F '42
Ingenious packaging booms Glenmore holiday sales. A. P. Bondurant. il Sales Management 50:43-4 Ja 1 '42
It pays to advertise to your own employees; Loft candy. G. Frederick. il Mod Packaging 15:52-4+ Ag '42
New costumes and a trade mark; Sunshine biscuits. il Mod Packaging 15:60 D '41
Packages loom as present problem; Wolf award goes to Post-tens package. il Ptr Ink 198:22, 55 Mr 20 '42
This is how a package is born. il Sales Management 49:52 N 15 '41
Will standardization kill individuality? il Mod Packaging 15:31-6, 94+ Mr '42
See also Package goods—Gift packages; Package goods—New packages

PACKAGE dyeing. See Dyes and dyeing—Package dyeing

PACKAGE goods
How dehydrated foods are being packaged. il Food Ind 14:47-51 Jl '42
Less than meets the eye; waste space in containers. il Mod Packaging 15:48-9+ Ag '42
Merchandise on cards; packaging and display advertising. il Mod Packaging 15:62 Ja '42
Packages loom as present problem; Wolf award goes to Post-tens package. il Ptr Ink 198:22, 55 Mr 20 '42
Packaging progress; a review and a forecast. C. W. Browne. Mod Packaging 15:109-20 Ap '42
Self-service pricing; white spot for price-marking. il Mod Packaging 16:48-50 N '42
Shulton toiletries' war program: nimble package changes, more ads. W. L. Schultz. il Sales Management 50:26, 30 My 15 '42
Twelfth annual packaging conference and exposition, New York, April 14-17. Mod Packaging 15:64+ My '42
Victory victuals in priority packages. il Mod Packaging 15:45+ Jl '42
See also
Bottled goods
Candy trade
Canned food
Cigarets
Containers
Food packages
Package design
Packaging
Toilet goods

Advertising

British packages under wartime restrictions. D. V. Baker. Adv & Sell 35:72+ O '42
Don't save advertising; make it work! new customers won for packaged goods by offering them something extra to try the product. D. Jones. Sales Management 50:16-18 Je 1 '42
Illustrating the package on envelopes. E. M. Kelley. il Mod Packaging 15:294-5 Ap '42
Picture the product. il Mod Packaging 15:61+ Jl '42
Will 1942 events affect identity of your package? il Mod Packaging 15:31-4 F '42

Gift packages

All-America package competition; award to Cannon mills, inc. il Mod Packaging 15:184-5 Ap '42
All-America package competition; award to Jacques Kreisler mfg. corp. il Mod Packaging 15:188-9+ Ap '42
Cannon keeps gift line before public. il Mod Packaging 16:67 O '42
Christmas packages out early. il Ptr Ink 201:18-19 N 6 '42
Gift appeal for belts and braces. il Mod Packaging 15:62 D '41
Holiday dress for bakery products. il Mod Packaging 15:44-5+ F '42
There'll always be a Christmas. il Mod Packaging 15:33-47+ Je '42

New packages

New packages and products. Published in monthly numbers of Food industries
1941 debuts. il Mod Packaging 15:46-8 Ja '42
Old into new for Seaforth. il Mod Packaging 16:45+ N '42
Paint for brush-loving amateurs; new packages for Kem-Tone and the Roller-Koater. il Mod Packaging 16:64-5+ O '42
Sixty-six green bottles; new packages of McKesson and Robbins. il Mod Packaging 15:58-9 F '42

Standards

Will standardization kill individuality? il Mod Packaging 15:31-6, 94+ Mr '42

PACKAGING
Beauty clay for silverware; Wright's silver cream. il Mod Packaging 15:79-81 D '41
Cheese without foil or rubber. il Mod Packaging 16:46-9+ O '42
Chrysler packaging system for army replacement parts. E. L. Warner, jr. il Automotive & Aviation Ind 87:42-3+ Jl 15 '42
Container outlook; W.P.B. packaging limitations will affect manufacturers of soaps, insecticides, etc. Soap & San Chem 18:19-22, 70 O '42

PACKAGING—*Continued*

Customer is always right, but; Mrs Pierson's complaint in connection with packaging of Gold Medal flour. Adv & Sell 35:50+ N '42

Display evolves from package. il Ptr Ink 198:26 Ja 2 '42

How dehydrated foods are being packaged. il Food Ind 14:47-51 Jl '42

Impact of war on advertising; bottleneck in packaging. Adv & Sell 35:21-2 Mr '42

Insecticide packaging standards revised. Oil Paint & Drug Rep 142:3+ N 2 '42

Lines shift for the duration; Bristol-Myers co. il Mod Packaging 15:74-6 Jl '42

Many coffee firms adopt glass pack; multiple grinds to go? il Sales Management 50:52-5 Je 15 '42

Merck safeguards packaging department against fire. L. F. Maar. il diags Mod Packaging 15:79-82 Ja '42

Monsanto licks package puzzle of 500 items squeezed by war. il Sales Management 51: 46+ Jl 15 '42

1941 preparedness for the emergencies of 1942. Mod Packaging 15:39-48+ Ja '42

Nutcracker suite. il Mod Packaging 15:87-9 Je '42

Package defrilling. Business Week p60-2 Ap 25 '42

Package standardization and simplification; informative labeling. C. K. Royce and others. 44p Am. management assn, 330 W. 42d st, New York '42

Packages in war dress. Barron's 22:5 Ja 26 '42

Packaging can take it; abstract. J. K. Arthur. Management R 31:353-4 O '42

Packaging catalog, 1942. 14th ed 641p $5; outside U.S. $6 Packaging catalog corp, New York '42

Packaging chemicals and chemical specialties in wartime; report of American management association conference. P. Slawter. il Chem Ind 50:644-8 My '42

Packaging conference of the American management association, New York, April 14-17. Food Ind 14:71-2 My '42

Packaging presents complicated picture, A.M.A. conference reveals. P. Murray. Ptr Ink 199:21 Ap 24 '42

Packaging show geared to the changing tempo. Mod Packaging 15:82 Mr '42

Packaging tightens its belt; review of present packaging trends with the emphasis on basic materials. A. Ray. Adv & Sell 35:23-4 My '42

Packaging trends. A. H. Warth. Oil Paint & Drug Rep 142:38 S 21 '42

Plant planning; an interview with William Lescaze, architect, by W. S. Ross. il Mod Packaging 15:82-5+ D '41

Prunes ready to eat; packaged in lead foil. il Mod Packaging 15:78, 80, 82+ Ag '42

San Francisco gets tough; city's packaging campaign under California law. Business Week p56-8 Ap 25 '42

Smoked turkey the year around. il Mod Packaging 16:54-6+ N '42

South American way for Carter's pills. il Mod Packaging 15:77-8 Mr '42

Sugar takes to small cartons. il Mod Packaging 15:70-2+ Jl '42

Use of the flag in packaging. Mod Packaging 16:70 O '42

Vick's new cough drop plant. flow chart il Mod Packaging 15:75-7 Ag '42

War on wasteful packaging. C. F. Berry. Barron's 22:5 Ap 6 '42

War packages for soaps. M. G. Heuer. il Soap & San Chem 18:22-4 S '42

War packages; standard specifications that save space and simplify purchasing. Business Week p20+ Ag 15 '42

War work, you can do it, too; 9,000 different articles, used by our armed forces, have either army or navy specifications and directions for packing. Mod Packaging 15: 49+ My '42

Washington personnel chart on packaging. Mod Packaging 16:92 O '42

What packages to use for dehydrated foods. L. K. Harper. il Food Ind 14:52-5 Jl '42

What's known today about dehydrating vegetables; directions for storing, fumigating and packaging. W. V. Cruess and E. M. Mrak. il Food Ind 14:43-5+ My '42

Who's who in the Washington WPB on package and container problems; chart. Sales Management 50:24-5 My 15 '42

See also

Bottling
Containers
Packaging materials
Paper boxes
Sealing compositions

Patents

U.S. patent digest. Published in monthly numbers of Modern packaging

PACKAGING laboratories

Alcoa opens laboratory for study of war packaging. il Mod Packaging 15:42-5 Ag '42

PACKAGING machinery

All-America package competition; award to J. C. Eno (U.S.) limited; toothpaste tube filling, closing and sealing equipment. il Mod Packaging 15:220-1+ Ap '42

Control circuit redesigned to save parts; trade mark registering device for packaging machine. il diags Product Eng 13:242-3 Ap '42

Conveyors aid packing, help retain quality; belts and chutes of special design for handling potato chips. M. E. Bridston. il Food Ind 14:45 S '42

Flexible production with machines on wheels; St Joseph laboratories, Memphis, Tenn. R. A. Latimer. il Mod Packaging 15:91-3+ My '42

Machinery means speed; packaging machinery adapted to war use. il Mod Packaging 15:36-8 My '42

Machines bag and carton tea. il Mod Packaging 16:84, 86+ N '42

Machines speed book-club mailings. il diag Mod Packaging 15:79 Mr '42

March of machines. Mod Packaging 15:65-8+ Jl '42

New air-tight to keep moisture in or out; thermoplastic coated folding carton. flow chart il Mod Packaging 15:84-6+ F '42

New machinery. il Mod Packaging 15:52, 54 Ja '42

Salting it away by machinery. il Mod Packaging 15:84+ Ag '42

Speedway for cartridge cartoning. C. A. Claus. il Mod Packaging 16:85+ O '42

Tray type unit for Wrigley's gum. il Mod Packaging 15:90 Je '42

PACKAGING materials

Adhesive strength of gummed paper sealing tape. Franklin Inst J 233:71-2 Ja '42

Amazing new germ killer; application for packaging materials; Perm-aseptic. il Mod Packaging 15:286, 288, 290+ Ap '42

Award winners, 11th annual all-America package competition. il Mod Packaging 15: 121-284 Ap '42

Britain on total war basis. D. V. Baker. il Mod Packaging 15:40-1+ Jl '42

Britain's two years' experience with shortages. D. V. Baker. il Mod Packaging 15: 38-40+ F '42

British rations. D. V. Baker. il Mod Packaging 15:52-4+ D '41

Cellulose wadding molds and pads for packaging pharmaceuticals. il Mod Packaging 15:60 Ja '42

Closure liners. E. C. Emanuel. Mod Packaging 15:58 D '41

Conservation measures. il Mod Packaging 15: 39-42 Ja '42

Current trends in food packaging; abstract. C. A. Southwick, jr. Food Ind 14:102 My '42

Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42

Flexible material to replace cans; Renlflex, comprised of several plies of paper, foil and protective films. il Mod Packaging 15:52 My '42

How some companies are meeting their packaging problems. il Food Ind 14:36-40 Ap '42

Materials and substitutes. il Mod Packaging 15:43-5 Ja '42

PACKAGING materials—*Continued*

Modern advances in preventing food spoilage. W. Clayton. Chem Age (Lond) 45:105-7 Ag 23 '41; Excerpt. Mod Packaging 15:64+ F '42

New packages. Business Week p60 F 14 '42

Package changes in offing; new container materials. Ptr Ink 198:20 F 20 '42

Packaging battle; emergency expedients may become trade practice. Business Week p52-3 D 13 '41

Packaging of dehydrated foods. C. Watson, 3d. Paper Tr J 115:46+ O 1 '42

Packaging tightens its belt; review of present packaging trends with the emphasis on basic materials. A. Ray. Adv & Sell 35: 23-4 My '42

Packing paradox; Corroflex. R. W. Lahey. Chem Ind 50:520 Ap '42

Present-day shortages of basic packaging materials; what to use in the place of them. Mod Packaging 15:28-31 Ja '42

Round two coming up; current digest of significant developments in the emergency situation as it affects packaging. Mod Packaging 15:38+ Ja '42

Sans cellophane; substitute wrappings. il Mod Packaging 15:48-9+ Je '42

Science gains in the search for materials. il diags Mod Packaging 15:35-41+ Ag '42

Spring offensive; packaging industry is producing war materials. il Mod Packaging 15: 29-43 My '42

There'll always be a Christmas; paper, boxes, ribbons supplies. il Mod Packaging 15:36-8 Je '42

Transparent materials uses narrowed by OPM. Oil Paint & Drug Rep 140:5+ N 17 '41

Twelfth annual packaging conference and exposition, New York, April 14-17. Mod Packaging 15:64+ My '42

War brings problems in use of adhesives. L. Eickstedt. il Food Ind 14:47-9 Ap '42

Wartime packaging exhibit; list of exhibitors. Paper Tr J 115:42, 44+ O 1 '42

See also

Cellophane

Paper board

Pliofilm

Wrapping materials

Wrapping paper

Testing

Moisture-vapor test cabinet. il diags Mod Packaging 16:78, 80, 82+ N '42

PACKARD motor car company

Annual report. Comm & Fin Chr 155:1604 Ap 20 '42

Motor cars to munitions. il Am Mach 86:602-4 Je 11 '42

Packard's Detroit plant for production of Rolls-Royce aircraft motors. il diag plans Arch Forum 75:426-31 D '41

Paper work in defense jobs. R. G. French. il Am Business 11:20-2 D '41

PACKING

Design and materials for hydraulic packings. J. N. Smith. il diags Aero Digest 40:119-20, 122 Ap '42

Easy way to insert packing leathers. A. Havens. Am Mach 85:1232 N 26 '41

Facing locomotive packing rings. A. H. Carroll. il diags Am Mach 86:1171 O 15 '42

Fitting packing on a pump piston. A. Gray. diags Power 86:585 Ag '42

Flooding velocities in packed towers; comparison of determination by visual and pressure drop methods. B. R. Sarchet. bibliog il diag Am Inst Chem Eng Trans 38:283-301; Discussion. 301-4 Ap '42

How to cut pump packing. C. Egerter; C. C. Lynde. diag Power Pl Eng 46:82 Je '42

Overcoming tendency of packer to stick in casing. F. H. Love. il Pet Eng 13:23-4 Jl '42

Packing, insulation and roofing. Paper Ind 24:524-5 Ag '42

Packing retainer spring. il Ry Age 113:8 Jl 4 '42; Same. Ry Mech Eng 116:313 Jl '42

Performance of drip-point grid tower packings. M. C. Molstad and others. il diag Am Inst Chem Eng Trans 38:387-434 bibliog(p409, 434) Ap '42; Discussion. 38:885-7 O '42

Pipes, pumps, packing, and valves in the pulp and paper industry. V. F. Waters. flow charts il Paper Tr J 113:89-90+ N 27 '41

Reclamation helps the war effort; new car lubrication method; change in methods of packing; Philadelphia transportation company. il Transit J 86:90-1 Mr '42

200 ways to make leather belts & packings last longer. F. A. Annett. il diags Power 86:466-71 Jl '42

See also

Gaskets

PACKING for shipment

All-American package competition; award to Anheuser-Busch, inc. il plan Mod Packaging 15:224-5+ Ap '42

Applying motion study principles; RCA manufacturing company. il Factory Management 100:128-9 Ag '42

Are you packing them right? new problems in packaging textiles for shipment. il Textile World 92:81-3 My '42

Boxed for war; replacement auto parts for global military service present unprecedented packaging problem. Business Week p32 S 12 '42

Chrysler packaging system for army replacement parts. E. L. Warner, jr. il Automotive & Aviation Ind 87:42-3+ Jl 15 '42

Complete solenoid control speeds Olean's carton conveyor system. L. H. Cargill. il Glass Ind 23:297-300 Ag '42

Conveying in cement packing plants. il diags plan Mech Handling 29:23-5 F '42

Drastic reductions in package styles display merchandise more effectively; Carson, Pirie, Scott & company. C. K. Royce. il Ind Stand 13:127-9 My '42

How to ship more economically in corrugated boxes. il Steel 111:88-9, 91 N 2; 110+ N 9 '42

Improved packaging speeds handling and shipping of radiators; McCord mfg. co. il Steel 110:73-4 F 2 '42

Improved packing method; use of Corroflex. P. Thompson. il Steel 110:94, 97 Mr 23 '42

New cartons for tubes. Electronics 15:104-6 Ag '42

Novel packing table. il Iron Age 149:51 My 14 '42

Packing for war. il Business Week p64-5 Jl 4 '42

Safeguard handling in corrugated boxes by proper sealing. il Steel 111:88+ O 12 '42

Speeding deliveries by use of unit packages and mechanized handling equipment. C. M. Godfrey. il Steel 111:94+ Ag 10; 88, 90 Ag 17 '42

Super-packs for radio tubes. il Mod Packaging 16:64-7+ S '42

Ten-step plan to stop waste; Hibbard, Spencer, Bartlett and company conserves supplies of paper, cartons, boxes. H. E. Fleming. il Am Business 12:22-4 F '42

Trucks and pallets bring handling costs to earth; General electric co., Bridgeport. C. H. Barker, jr. il Factory Management 99: 60-2 D '41

Tube package revamped. il Business Week p16 Jl 4 '42

Watertight sealing glue. il Mod Packaging 16:68+ S '42

Wire-bound boxes replace kegs for lock washers. il Iron Age 150:67 Ag 13 '42

See also

Barrels

Containers (for shipping)

Shipment of goods

PACKING fraction. See Isotopes

PACKING house products

Readings on by-products of the meat packing industry. 375p $3 Inst. of meat packing, Univ. of Chicago, Chicago '41

PACKING houses

Electric equipment

Bacon curing; how electricity has mechanised the industry. il Elec R (Lond) 129:593-6 N 28 '41

PACKING houses—*Continued*

Employees

Productivity in slaughtering and meat-packing industry, 1919-41. A. W. Frazer. Monthly Labor R 54:1092-9 My '42

Equipment

Doubles refrigerating capacity by draining ammonia lines. E. G. Applegate. diags Food Ind 14:64-5+ Ja '42

Somerville packing company refrigerating and air conditioning equipment. il Heat & Ven 39:84-5 Ja '42

Power

Meat packing plant; boiler capacity and feed water problems. Power Pl Eng 46:107 Jl '42; Solutions. diag 46:101-2+ S '42

Morrell boiler tests. Power Pl Eng 46:57 Ap '42

Morrell plant burns three kinds of fuel; operates in parallel with local utility company and generates only byproduct power. D. S. Helmick and E. L. Johnson. il diags Power Pl Eng 46:48-51 Ja '42

Waste

Treating packinghouse wastes and domestic sewage at South St Paul. W. H. Cropsey. Water Works & Sewerage 89:360 Ag '42

PACKING industry

Swift & co. slash salesmen's mileage; experiment with bicycles; minimum deliveries, fewer personal calls, more intensive use of the telephone, and doubling up with noncompetitive salesmen. il Sales Management 51:40-1 Ag 1 '42

See also

Armour and company of Illinois
Canned food
Cudahy packing company
Meat, Dried
Meat industry and trade
Sausages

Finance

Current prospects for the meat packing industry. Barron's 22:9 S 21 '42

How price control affects packers and tanners. Barron's 22:6 Je 1 '42

Meat packing prospects. Barron's 22:6 Ja 26 '42

Statistics

Productivity in slaughtering and meat-packing industry, 1919-41. A. W. Frazer. Monthly Labor R 54:1092-9 My '42

United States

Fourteen packers indicted. Ptr Ink 197:22 D 12 '41

Meat indictments. Business Week p83-4 D 6 '41

Meat packers study outlook. Food Ind 14:74-5 N '42

Packers' defense; case about price of Easter hams. Business Week p24 Ja 10 '42

Prospects for 1942. J. Holmes; E. F. Wilson. Comm & Fin Chr 155:459-60, 478 Ja 29 '42

Squeeze at work; method of applying ceiling prices in the pork and beef slaughtering industry. Business Week p87 Jl 11 '42

PADDOCK, William Waterman, 1879-

Paddock named president of Boston reserve bank. Comm & Fin Chr 155:950 Mr 5 '42

PADUCAH, Kentucky

Streets

Paducah paves its streets with concrete. T. A. Bradley. il Concrete 49:33 D '41

PAEPCKE, Walter Paul, 1896-

Prepackaged war; Container corp. will make more paper boxes than ever in its history. pors Fortune 24:86-9+ D '41

PAGLIARULO, Vincent, 1886-

Recipient of the 1940 Society of motion picture engineers journal award. R. E. Farnham. por Soc Motion Picture Eng J 37:551-4 D '41

PAILS, Steel

Prices

Paint pails prices established by OPA. Oil Paint & Drug Rep 141:7 Je 15 '42

PAINT

Abstracts of papers to be presented at A.C.S. meeting at Memphis, April 20-24. Paint Oil & Chem R 104:18-22 Ap 9 '42

Advises on lead and zinc in paint for army. E. T. Trigg. Paint Oil & Chem R 104:11 My 21 '42

Applying portland cement paint to concrete masonry walls. P. M. Woodworth. il Concrete 50:10-11+ Ap '42; Abstract. Rock Prod 45:86-7 My '42

Blackout and camouflage paints formulated by the industry. Oil Paint & Drug Rep 140:7+ D 22 '41

Blackout coatings. J. Bradley. Paint Oil & Chem R 104:14-15; Discussion. 15-16 N 5 '42

Blackout materials and window protection; use of blackout paints and luminescent materials. il Power Pl Eng 46:69-72 N '42

Black-out paint. Textile World 92:81 Ja '42

Blackout paint formula. Food Ind 14:69 Ap '42

Blackout paints. Chem & Met Eng 49:163-4 F '42

Blackout paints, concealment paints. H. A. Gardner. Paint Oil & Chem R 104:5-6 Ja 1 '42

Camouflage coatings. Oil Paint & Drug Rep 142:91 N 2 '42

Camouflage paints. Chem Ind 50:207 F '42

Color of paint; abstract. A. H. Stuart. Paint Oil & Chem R 104:33 F 12 '42

Containers; large containers. E. E. Hoffman. Paint Oil & Chem R 104:76-80 N 5 '42; Same cond. Oil Paint & Drug Rep 142:53-4 N 2 '42

Containers; small containers. L. Kiefer. Paint Oil & Chem R 104:75-6 N 5 '42; Abstract. Oil Paint & Drug Rep 142:54 N 2 '42

Derivation of the hiding equation. F. Battline. Paint Oil & Chem R 104:9-10 My 21 '42

Essentials of emulsion paints; acceptance of emulsions. Oil Paint & Drug Rep 142:45-6 O 26 '42

Experience of cities with painted traffic lines. rev ed 28p pa 50c Am. public works assn, 1313 E. 60th st, Chicago '42

Federation of paint and varnish production clubs 21st annual meeting, Pittsburgh, Oct. 23-24. Oil Paint & Drug Rep 142:41-7, 47A-47B O 26 '42

Infrared coatings to be restricted to military. Paint Oil & Chem R 104:25 Je 4 '42

Infrared reflectance of camouflage enamels. Oil Paint & Drug Rep 142:47A-47B O 26 '42

National paint varnish and lacquer association scientific section; technical developments in 1942. Paint Oil & Chem R 104:87-9 N 5 '42

National paint, varnish and lacquer association statutory annual meeting, Washington. Paint Oil & Chem R 104:9-24, 24B-24C N 5 '42

Nature of portland cement paints and proposed recommended practice for their application to concrete surfaces; report of ACI committee 616. Am Concrete Inst J 13:485-501 Je '42

New blackout paints. Am Dyestuff Rep 31:511 O 12 '42

New blackout paints shield plants from infrared photography. Gas Age 89:16 Ja 29 '42

New oil-less paint product. Barron's 22:5 Ap 13 '42

New water paint; Kem-Tone. J. M. Crowe. Chem Ind 50:792 Je '42

Oil absorption of pigments. M. A. Azam. Ind & Eng Chem Anal ed 14:545-6 Jl 15 '42

Ordnance department paint developments. E. T. McBride. Chem & Eng N 20:850-1 Jl 10 '42; Same. Metal Finishing 40:563+ O '42

Paint dispersions; a particle size distribution approach to solid-liquid systems. S. W. Martin. il Can Chem & Process Ind 26:451-6 Ag '42

Paint for brush-loving amateurs; new packages for Kem-Tone and the Roller-Koater. il Mod Packaging 16:64-5+ O '42

PAINT—*Continued*

Paint in paper cans. il Chem Ind 51:103 Jl '42; Same. Metal Finishing 40:513 S '42

Paint research; war problems in manufacture, application, specifications and tests. C. Y. Hopkins. il Can Chem & Process Ind 26: 227-9, 247 Ap '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:16+ Mr 12; 11-12 Mr 26; 7-10 Ap 9; 16+ Ap 23 '42

Protective and decorative coatings. J. J. Mattiello, ed. v2 658p $6 Wiley '42

Relation of paint properties to surface areas of carbon black. O. J. Brown, jr. and W. R. Smith. bibliog il Ind & Eng Chem 34: 352-5 Mr '42

Temperature-indicating paints; Thermindex. Engineering 152:416 N 21 '41

Temperature sensitive paints; Thermindex colours. il Automobile Eng 31:458 D '41

War paint; protective, blackout, camouflage, etc. Nat Safety N 45:75-6 Mr '42

See also

Driers
Lacquer and lacquering
Linseed oil
Paint factories
Paint materials
Painting, Industrial
Pigments
Tung oil
Varnish and varnishing

Analysis

Isolation and identification of the resinous binder in water paints. R. W. Stafford. bibliog diags Ind & Eng Chem Anal ed 14:694-9 S 15 '42

Classification

Classification of house and barn paints as recommended by the United States Department of agriculture. F. L. Browne. U S Agric Tech Bul 804:1-37 bibliog(p35-6) '42

Cleaning

Cleaners for painted and varnished surfaces. C. T. Small. il Chem Ind 51:384-6 S '42

Report of sub-committee no. 39 of New York club; cleaning characteristics of paints. Paint Oil & Chem R 104:108-9 N 5 '42

Washability of paints. Oil Paint & Drug Rep 142:47B O 26 '42

Dictionaries

National paint dictionary. J. R. Stewart. 2d ed 224p $7.50 Stewart research laboratory, 1340 New York av, NW, Washington, D.C. '42

Drying

Acid values' effect on drying time. Oil Paint & Drug Rep 142:47B O 26 '42

Chemicals affecting loss of drying; by New York paint and varnish production club. Paint Oil & Chem R 104:94-8 N 5 '42; Abstract. Oil Paint & Drug Rep 142:47B O 26 '42

Control of radiant energy in paint drying ovens. R. Wysocki. Metal Finishing 39:704-5 D '41

Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42

Finish drying by infra-red method. P. H. Gallagher. Am Gas Assn Mo 24:369 O '42

Flexible infra-red for fixture drying. il Elec W 117:1679-80 My 16 '42

Industrial uses of radiant heating. R. Quarendon. il Engineer 173:531-3 Je 26 '42

Infra-red baking. H. Seymour. Electrician 129:200-4 Ag 21 '42

Infra-red radiation. A. E. Tooke and H. W. C. Gatehouse. il diag Elec R (Lond) 130: 137-41, 169-72 Ja 30-F 6 '42

Infra-red radiation and equipment. R. Maxted. Electrician 127:351-2 D 19 '41

Infra-red speeds drying; auto shop. il Elec West 87:50 D '41

Infra-red tunnel breaks bottleneck; Square D company. il Elec W 118:644 Ag 22 '42

Infra-red tunnel mounted on ceiling; paint baking; John G. Virden company. W. J. Miskella. il Elec W 116:2073 D 27 '41

Military applications for organic finishes; infrared drying. T. P. Cusack, jr. il diags Metal Finishing 40:499-501, 503-4 S '42

Modern infra-red baking system. C. F. Miller. il plan Metal Finishing 40:561-2 O '42

Near infra-red and metal finishing. P. H. Krupp. il Metal Finishing 40:389-93 Jl '42

Near infra-red baking and drying. il Ry Age 112:1111 Je 6 '42

Paint baking with infrared plus ultraviolet. H. J. Bennett and H. Haynes. Illum Eng 37:115-17 F '42

Paint drying, auto body repairing; utilization data sheet. L. E. Stairet. il Elec West 87:36 D '41

Progress in gas utilization research during 1941; investigation of infra-red ray drying and baking with gas. il Am Gas Assn Proc 1941:425-6

Radiant heat dries helmet liners. il Am Mach 86:970 S 3 '42

Durability

Durability of soap-treated zinc oxide paints. D. G. Nicholson and T. W. Mastin. bibliog il Ind & Eng Chem 34:996-1002 Ag '42

Light reflection

Reflection factors of some materials used in school rooms; chalkboards, wall and ceiling paints, venetian blinds and window shades. P. Moon. Opt Soc Am J 32:243-6 Ap '42

Manufacture

Complexed metal soaps as oxygen absorption and drying catalysts; abstract. D. G. Nicholson. Paint Oil & Chem R 104:10-11 My 7 '42

Engineering aspects of paint manufacture. Paint Oil & Chem R 104:11 O 22 '42

Fifth ingredient; importance of driers and special agents in war-time paint formulation. A. Minich. Can Chem & Process Ind 26:204-6 Ap '42; Same. Paint Oil & Chem R 104:7-9, 31-2 My 7 '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:7-10 Ap 9 '42

Solidified oils; new material for paints and varnishes. L. Auer. Oil Paint & Drug Rep 141:7+ F 2 '42

Story of paint mills. il diag Paint Oil & Chem R 104:10, 12, 14 Ap 23 '42

See also

Paint factories
Paint materials

Odor removal

Odorless paint; American-Marietta co. J. M. Crowe. Chem Ind 50:65 Ja '42

Removal

Electric heat removes paint, putty, without damage. Sci Am 165:342 D '41

Hot-solution method speeds transformer paint removal. A. P. Schulze. il Power 86:304-5 My '42

Specifications

Oleo-resin water miscible paint; T-1279. Paint Oil & Chem R 104:16, 16B-16D, 17-19 N 5 '42

One-coat inside paint specification proposed. Oil Paint & Drug Rep 142:42 Ag 24 '42

Paint specifications available. Oil Paint & Drug Rep 141:7+ Ap 6 '42

Specification standards for government work; painting. H. R. Sleeper. Arch Rec 91:64-6 Mr '42

Standards

Artists' oil paints. diags U S Nat Bur Stand Commercial Standard CS98-42:1-22; pa 5c Supt. of doc. '42

Floor paint standard proposed by U.S. Oil Paint & Drug Rep 141:7+ Mr 2 '42

Paint and varnish work to be done by OPA Standards division. C. S. Ladd. Oil Paint & Drug Rep 142:3+ O 26 '42

Paint standards pondered by new OPA unit. Oil Paint & Drug Rep 142:7+ S 21 '42

PAINT—*Continued*

Testing

A.S.T.M. committee discusses new paint specification needs. Oil Paint & Drug Rep 141:7 Mr 16 '42

Calculation of viscosity from Stormer viscometer data. J. A. Geddes and D. H. Dawson. diag Ind & Eng Chem 34:163-7 F '42

Field and laboratory investigation of traffic paints; abstract. W. H. Goetz. Roads & Bridges 80:105-6 Mr '42

Interior paints for use in chemical laboratories. D. G. Nicholson, B. S. Hopkins and L. Kemp. il Paint Oil & Chem R 104:7-9 Mr 26 '42

Measurement of the fading rate of paints. A. J. Eickhoff and R. S. Hunter. bibliog diags J Research Nat Bur Stand 28:773-93 Je '42; Same. Paint Oil & Chem R 104:9-11, 41 Je 18; 6-8 Jl 2 '42

Oleo-resin water miscible paint; T-1279. Paint Oil & Chem R 104:16, 16B-16D, 17-19 N 5 '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:16+ Ap 23 '41

Traffic-zone paint. Roads & Bridges 80:118+ Mr '42

Ultraviolet reflectance characteristics of various materials. A. H. Taylor. Illum Eng 36:927-30 N '41

See also
Paint, Protective—
Testing
Paint research

Transportation

Containers; large containers. E. E. Hoffman. Paint Oil & Chem R 104:76-80 N 5 '42; Same cond. Oil Paint & Drug Rep 142:53-4 N 2 '42

Paint in glass containers may use 3 carton types. Oil Paint & Drug Rep 141:7+ Ap 6 '42

Transportation a factor in concentration; with questions and answers. E. A. Leveille. Paint Oil & Chem R 104:72-4 N 5 '42; Same cond. Oil Paint & Drug Rep 142:54-5, 58 N 2 '42

Weathering

Measurement of the fading rate of paints. A. J. Eickhoff and R. S. Hunter. bibliog diags J Research Nat Bur Stand 28:773-93 Je '42; Same. Paint Oil & Chem R 104:9-11, 41 Je 18; 6-8 Jl 2 '42

PAINT, Anti-fouling

Mercury poisoning from the use of antifouling plastic paint. L. J. Goldwater and C. P. Jeffers. J Ind Hygiene 24:21-3 F '42

Underwater paints for ships. H. W. Rudd. Paint Oil & Chem R 104:9-10 Ja 15 '42

PAINT, Fluorescent. See Paint, Luminous

PAINT, Luminous

Blackout materials and window protection; use of blackout paints and luminescent materials. il Power Pl Eng 46:71-2 N '42

Black-out preparations in the United States. H. E. Millson. il News Ed 19:1266+ N 25 '41

Fluorescent lighting. Engineering 153:116 F 6 '42

Glo-pass system; passes painted with fluorescent lacquer prevents forgery. Engineer 174:17-18 Jl 3 '42

Luminescence, fluorescence, and phosphorescence in paints. bibliog Oil Paint & Drug Rep 141:7+ F 16; 7+ F 23; 7, 47-8 Mr 2 '42

Luminescent coatings. Metal Finishing 40:335-8+ Je '42

Luminescent coatings; report of subcommittee no. 43 of the New York paint and varnish production club. Paint Oil & Chem R 104:32-5 F 26 '42; Same abr. Can Chem & Process Ind 26:406-7+ Jl '42; Abstract. Engineering 153:466 Je 12 '42

Luminescent paints. J. M. Fain. bibliog il News Ed 19:1252-4 N 25 '41

Paint that makes objects visible in the dark; Durad luminous paint. Mach 48:128 Je '42

Prevention and control of hazards in the radium dial painting industry. L. F. Curtiss. il diags J Ind Hygiene 24:131-41 Je '42

Properties of luminescent materials. C. E. Barnett. bibliog il Chem & Eng N 20:1006-9 Ag 25 '42

Report of committee no. 43 of New York. Paint Oil & Chem R 104:83 N 5 '42

Storage of radium dial instruments. C. R. Williams and R. D. Evans. J Ind Hygiene 24:236-7 O '42

Ventilation requirements for radium dial painting. W. C. L. Hemeon and R. D. Evans. il diag Heat & Ven 39:23-6 My '42; Same. J Ind Hygiene 24:116-20 My '42

PAINT, Protective

Aircraft de-icing paints; abstract. C. R. Draper. Paint Oil & Chem R 104:11 O 22 '42

Anti-corrosive paint; new developments from a waste product; Frust. Chem Age (Lond) 47:166 Ag 15 '42

Corrosion and protection of structural steel. A. M. G. Dempster. Engineering 153:17-18 Ja 2 '42

Fire-retarding paint. Oil Paint & Drug Rep 142:45 O 26 '42

Flame-priming method of preparing steel surfaces for painting. E. W. Deck. bibliog il diags Iron Age 150:80-2 O 22; 44-8 O 29 '42

Lower heat absorption of white tank paints; abstract. P. L. Lotz. Nat Pet N 34:R88 Mr 18 '42

Maintenance of steel water tanks; abstract. E. E. Alt. Eng N 128:407 Mr 12 '42

Maintenance paints and protective coatings; Parlon, chlorinated rubber-base paint. A. R. Olsen. Paper Tr J 113:37-8 N 13 '41; Same cond. with il. News Ed 19:1260, 1262, 1264 N 25 '41

Metal shortages and their effect on line hardware; report of the line hardware subcommittee, EEI. E. H. Kendall. Edison Elec Inst Bul 9:460-1 N '41

Paint characteristics; structural steel protection. J. H. Hesketh. Engineering 153:44-5 Ja 16 '42

Paint coatings substituted for metallic zinc coatings. E. F. Hickson. Steel 110:74, 77+ Ja 12 '42; Same. Pub Roads 22:259-61 Ja '42; Same cond. Sheet Metal Worker 33:110+ Ja '42; Excerpts. Eng N 128:179 Ja 29 '42

Painting metalwork. Consumers' Research Bul 9:20-3 D '41

Paints that retard fire. H. A. Gardner. Nat Safety N 45:93 My '42

Protective coatings for German war machine. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ap 13 '42

Protective coatings for metal; experience with paint. J. V. Thompson. Sheet Metal Worker 33:27-8 Ap '42

Protective coatings in wartime. L. J. Reizenstein. Paint Oil & Chem R 104:11-12, 29-30 Je 4 '42

Protective painting of structural steel. Engineering 154:144-5, 165-6 Ag 21-28 '42

Relationship of the protective coatings industry to a war-time economy. E. T. Trigg. Paint Oil & Chem R 104:10+ Jl 30 '42

Substitutes for aluminum paint. E. F. Hickson and H. A. Gardner. Pub Works 73:37 Mr '42

Water emulsion paints; modern developments have produced resistant coatings. W. H. Butler. Can Chem & Process Ind 26:612+ O '42

See also
Corrosion and anti-
corrosives
Metal protection
also United States—War production board—Protective coatings section

Testing

Effect of zinc chromate paint on welding. C. T. Gayley. il Welding J 21:sup434-9 S '42

Expected service effectiveness of preservative treatments applied to millwork; a laboratory method of comparison. J. B. Mellecker and M. W. Baker. il Ind & Eng Chem Anal ed 14:305-8 Ap 15 '42

PAINT, Protective—Testing—*Continued*

Field testing of mold-resistant properties of interior oil paints. A. M. Partansky. bibliog il Ind & Eng Chem Anal ed 14:527-31 Jl 15 '42

For better paint; methods of testing surface coatings for metals. il Sci Am 166:76-8 F '42

Permeability of protective coatings to water vapor; abstracts. R. E. Lishmund and F. J. Siddle. Paint Oil & Chem R 103:9-10 D 4 '41; diag Chem & Met Eng 49:158 Ja '42

Report of A.S.T.M. subcommittee XXIX on preparation and painting of structural iron and steel. Am Soc T M Proc 41:322-9 '41

Test for corrosion of painted iron. R. B. Gibney. il diag Metal Finishing 39:701-2 D '41

Testing finishes for plywood surfaces. A. B. Marsh. il Aero Digest 41:174, 176, 178+ S '42

Water immersion testing of metal protective paints; influence of bare metal areas. W. W. Kittelberger. il Ind & Eng Chem 34:943-8 Ag '42

Zinc tetroxy chromate; a rust-inhibitive primer pigment. W. W. Kittelberger. bibliog il Ind & Eng Chem 34:363-72 Mr '42

PAINT and varnish production clubs, Federation of. See Federation of paint and varnish production clubs

PAINT brushes

Cash offer wins fast turn-in of old merchandise; Devoe & Raynolds company scrap collection drive for paint brushes. il Ptr Ink 200:46-7 S 4 '42

Suggestions for conserving paint brushes. R. O. Peterson. Metal Finishing 40:574 O '42

PAINT brushes, Substitutes for

Paint for brush-loving amateurs; new packages for Kem-Tone and the Roller-Koater. il Mod Packaging 16:64-5+ O '42

PAINT factories

Jones-Blair company's new Dallas plant a model of efficiency. il Paint Oil & Chem R 104:9 F 26 '42

Equipment

Lehmann brings out new machine; improves two others. il Paint Oil & Chem R 104:36 F 26 '42

Safety measures

Elimination of combustion hazards in the paint industry. T. A. Cohen. il diags Paint Oil & Chem R 104:24, 26-7 F 26 '42

Fire protection goes automatic; built-in extinguishing systems are trend in paint protection. P. W. Eberhardt. il Paint Oil & Chem R 104:16, 18 Ap 9 '42

PAINT handling

Paint distribution streamlined; Republic steel corp. il Factory Management 100:70+ Ap '42

PAINT industry and trade

Low cost animation puts zip in Devoe & Raynolds window displays. il Sales Management 50:46 My 1 '42

Marketing natural mineral pigments. C. L. Harness. U S Bur Mines Information Circ 7198:1-26 '42

Paint specifications available; simplified practice recommendation. Oil Paint & Drug Rep 141:7+ Ap 6 '42

Produce and conserve. E. T. Trigg. Paint Oil & Chem R 104:24E-24F+ N 5 '42

Protective coatings section of the War production board. E. H. Bucy. Paint Oil & Chem R 104:24H+ N 5 '42; Same abr. Oil Paint & Drug Rep 142:50-1 N 2 '42

What are the outstanding contributions made by the paint industry to the war effort? E. T. Trigg. Paint Oil & Chem R 104:84-6 N 5 '42

See also National paint, varnish and lacquer association

Advertising

Booklet of fighter planes put out by man who paints 'em. Ptr Ink 200:38 Jl 3 '42

Paint for brush-loving amateurs; new packages for Kem-Tone and the Roller-Koater. il Mod Packaging 16:64-5+ O '42

Finance

Sherwin-Williams in war and peace. J. A. McWethy. il Barron's 22:9 Je 29 '42

Regulation

Paint controls developing abroad. Oil Paint & Drug Rep 142:40B O 26 '42

Statistics

Marketing mineral pigments. C. L. Harness. U S Bur Mines Information Circ 7217:3-9 '42

Plastic, coldwater paint, calcimine sales, 1941. Oil Paint & Drug Rep 141:40 F 23 '42

Sales of paint, varnish, lacquer, and fillers; new series, monthly, 1936-1941. Survey of Cur Business 22:26 Jl '42

Canada

Canadian paint industry carries on despite war's problems. Paint Oil & Chem R 104:11 Ja 15 '42

Canadian production, 1941. For Comm W 8:24 S 19 '42

Principal paints made in Canada; statistics for 1939 and 1940. For Comm W 6:18 Mr 7 '42

Specified organic chemicals used in the Canadian pigment, paint and varnish industry, 1939 and 1940; table; production of paints, etc. 1940. For Comm W 6:21, 29 Ja 24 '42

Cuba

News by commodities. For Comm W 6:22 F 7 '42

Germany

German synthetic paint plans point global economic problem. W. Alwyn-Schmidt. Oil Paint & Drug Rep 142:7+ Jl 13 '42

Germans find substitutes and extenders for paint materials. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ja 19 '42

Protective coatings for German war machine. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ap 13 '42

Netherlands Indies

Netherlands Indies paint industry. For Comm W 5:11 D 20 '41

United States

National paint, varnish and lacquer association convention-at-home proceedings. Oil Paint & Drug Rep 142:41-2, 44, 46-8 N 2; 44+ N 16 '42

Our largest customer. P. S. Kennedy. Paint Oil & Chem R 104:58-9 N 5 '42

Paint industry goes to war. Business Week p22 O 17 '42

Paint industry war needs plan urged; abstract. L. Roon. Oil Paint & Drug Rep 141:4+ F 2 '42

Paint sales up 50% over 1940; address at paint industry dinner. E. T. Trigg. Oil Paint & Drug Rep 142:7+ Jl 13 '42

Priorities procedure explained at protective coatings clinic. Oil Paint & Drug Rep 140:3+ D 8 '41

Relationship of the protective coatings industry to a war-time economy. E. T. Trigg. Paint Oil & Chem R 104:10+ Jl 30 '42

Transportation a factor in concentration; with questions and answers. E. A. Leveille. Paint Oil & Chem R 104:72-4 N 5 '42; Same cond. Oil Paint & Drug Rep 142:54-5, 58 N 2 '42

Trend in trade sales. T. J. Campbell. Paint Oil & Chem R 104:52-4 N 5 '42

Unvarnished fact; war's inroads on materials used by industry. Business Week p42+ N 15 '41

War paints. Barron's 22:5 Ja 19 '42

PAINT materials

American source of natural resins for the paint and varnish industry; fossil resins recently discovered in Utah. A. Nagelvoort. flow sheet il map Chem & Met Eng 49:80-2 O '42

Control of critical materials, with questions and answers. D. P. Morgan. Paint Oil & Chem R 104:34+ N 5 '42; Same abr. Oil Paint & Drug Rep 142:47-8, 58 N 2 '42

PAINT materials—*Continued*

Diatomaceous silica and its application in the paint industry. H. W. Hall. il Paint Oil & Chem R 104:12, 14+ Mr 26 '42

Effect of cutting oils on insulating varnishes and chlorinated rubber paint. Engineering 152:319-20 O 17 '41

Effect of pigments on oleoresinous film structure. R. C. Ernst and G. R. Eudaley. bibliog Paint Oil & Chem R 104:102-3, 114-15, 118-19 N 5; 18, 20 N 19 '42

Emulsions and the war. A. King. Paint Oil & Chem R 104:9 Ja 15 '42

Emulsions and the war; abstract. A. King. Paint Oil & Chem R 104:18 My 7 '42

Fifth ingredient; importance of driers and special agents in war-time paint formulation. A. Minich. Can Chem & Process Ind 26:204-6 Ap '42; Same. Paint Oil & Chem R 104:7-9, 31-2 My 7 '42

Future of resin emulsion paints. A. J. Menaker. il Paint Oil & Chem R 104:7-8 Je 4 '42

German synthetic paint plans point global economic problem. W. Alwyn-Schmidt. Oil Paint & Drug Rep 142:7+ Jl 13 '42

Germans find substitutes and extenders for paint materials. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ja 19 '42

Imported materials in paint industry. G. S. Brady. Paint Oil & Chem R 104:56-8 N 5 '42; Excerpt. Oil Paint & Drug Rep 142:51-3 N 2 '42

Maintenance paints and protective coatings; Parlon, chlorinated rubber-base paint. A. R. Olsen. Paper Tr J 113:37-8 N 13 '41; Same cond. with il. News Ed 19:1260, 1262, 1264 N 25 '41

Paint aplenty; industry's adjustments to war curtailment of materials. Business Week p20+ O 17 '42

Paint, varnish, and lacquer materials, 1941. Oil Paint & Drug Rep 141:62+ Ja 12 '42

Petroleum resin emulsions; abstract. E. S. Paice. Paint Oil & Chem R 104:18 My 7 '42

Priorities and allocations. G. H. Priest, jr. Paint Oil & Chem R 104:42, 44-6+ N 5 '42; Same abr. Oil Paint & Drug Rep 142:48-50 N 2 '42

Production of gums used by the paint industry, jutahycica and jatoba, in Brazil. For Comm W 7:24 Ap 18 '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:16+ Mr 12; 11-12 Mr 26; 7-10 Ap 9; 16+ Ap 23 '42

Raw material survey. E. T. Trigg. Paint Oil & Chem R 104:99-101+ N 5 '42; Same. Oil Paint & Drug Rep 142:44, 46-7 N 2 '42

Raw materials for paint and varnish; influence of conditions on supplies. Can Chem & Process Ind 25:591 N '41

Solidified oils; new material for paints and varnishes. L. Auer. Oil Paint & Drug Rep 141:7+ F 2 '42

Specified organic chemicals used in the Canadian pigment, paint and varnish industry, 1939 and 1940; table. For Comm W 6:21 Ja 24 '42

Synthetic resins for surface and protective coatings. E. A. Bevan. Chem & Ind 61:261-7 Je 13 '42

Traffic paint substitute; soybean oil. Eng N 127:881 D 18 '41

Unvarnished fact; war's inroads on materials used by industry. Business Week p42+ N 15 '41

Viscosity of naphtha-resin solutions. E. H. McArdle and E. L. Baldeschwieler. Ind & Eng Chem 34:882-5 Jl '42

War paints. Barron's 22:5 Ja 19 '42

Water emulsion paints; modern developments have produced resistant coatings. W. H. Butler. Can Chem & Process Ind 26:612+ O '42

Wool fat in paints. Paint Oil & Chem R 104:22 Je 4 '42

See also

Artists' materials
Carbon black
Driers
Drying oils
Linseed oil
Pigments
Tall oil
Titanium oxides
Tung oil
Varnish and varnishing

Prices

Market prices current. Published in biweekly numbers of Paint, oil and chemical review

Paint, varnish and lacquer materials, price trends, 1937-1942; tabulation. Oil Paint & Drug Rep 142:42 O 26 '42

Synthetic resins and other branded paint materials (manufacturers' list prices). Oil Paint & Drug Rep 141:29-31+ Ja 5 '42 [cont monthly]

Statistics

Paint, varnish, lacquer materials. Published in weekly numbers of Oil, paint and drug reporter

PAINT research

Effect of particle size on the tinting strength of pigments. G. Barrick. bibliog Paint Oil & Chem R 104:7-10 Ja 1 '42

Effect of pigments on oleoresinous film structure. R. C. Ernst and G. R. Eudaley. bibliog Paint Oil & Chem R 104:102-3, 114-15, 118-19 N 5; 18, 20 N 19 '42

Field testing of mold-resistant properties of interior oil paints. A. M. Partansky. bibliog il Ind & Eng Chem Anal ed 14:527-31 Jl 15 '42

Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:27-9 Ja 10 '42

New all-glass mill. D. B. Pall. il diag Ind & Eng Chem Anal ed 14:346-8 Ap 15 '42

Paint research; war problems in manufacture, application, specifications and tests. C. Y. Hopkins. il Can Chem & Process Ind 26:227-9, 247 Ap '42

Solidified oils; new material for paints and varnishes. L. Auer. Oil Paint & Drug Rep 141:7+ F 2 '42

Technical papers; Federation of paint and varnish production clubs meeting. Oil Paint & Drug Rep 142:47A-47B O 26 '42

PAINT spraying

Automatic spray machines for coating shells rapidly. il Mach 48:153 F '42

Automatic spray painter releases 10 men; Glenn L. Martin company. il Aero Digest 41:157-8 Jl '42; Same. Metal Finishing 40:510 S '42

Coating by the electric spray method. H. Ransburg. Metal Finishing 40:621-3 N '42; Abstract. Iron Age 149:62-3 Je 25 '42

De Vilbiss painting machine for four pound incendiary bomb. Metal Finishing 40:632 N '42

Equipment required for applying organic finishes; abstract. F. H. Edwards. Iron Age 149:63-4 Je 25 '42

Evaluating spray operators. W. L. Mattern. Metal Finishing 40:507-8 S '42

Finishing air compressors; no-enclosure paint spraying area. il Metal Finishing 40:277-8 My '42

Finishing defense products. F. V. Faulhaber. il Metal Finishing 40:339-41 Je '42

Finishing of Greyhound coaches. W. A. Duvall. il Metal Finishing 40:163-4 Mr '42

Finishing of washing machines. C. Cleveland. il Metal Finishing 40:112, 114 F '42

Finishing steel containers. J. W. Gifford. il Metal Finishing 40:169-70 Mr '42

Good use for old refrigerators; air compressor for spray painting. A. Knox. Power Pl Eng 46:114 My '42

How to light spray booths. il Elec W 118:312 Jl 25 '42

Modern spray room at Toronto shops. il Mass Transportation 38:78 Mr '42

Paint spray recovery requested by WPB. Oil Paint & Drug Rep 142:4+ Jl 27 '42

Robot painter speeds production. il Aviation 41:133 Ag '42

Signs sprayed on step treadles. il Transit J 86:251 Jl '42

Spray painting, industrial and commercial. F. M. Crewdson. 128p $1.50 Drake '41

World's biggest spray booth for bombers. il Metal Finishing 40:513-14 S '42

PAINT spraying—*Continued*

Safety measures

Air filters cover entire ceiling of production paint shop; Westinghouse Electric works. il Heating-Piping 14:428 Jl '42

Fresh air for the paint shop. il Nat Safety N 46:38 Jl '42

Hazards of spray painting. A. E. Williams. Chem Age (Lond) 47:163 Ag 15 '42

Mind the paint. J. Von Rosen. il Safety Eng 82:26-8 D '41

Spray booth exhaust system. diags Sheet Metal Worker 33:33-4 F '42

Spray coating precautions. Nat Safety N 45:61 Mr '42

Study of hazards in spray painting with gasoline as a diluent. J. H. Sterner. bibliog il J Ind Hygiene 23:437-48 N '41

Ventilating system supplies 700,000 cfm for spray painting bomber planes. il Heating-Piping 14:674 N '42; Same. Aero Digest 41:201+ N '42

World's largest paint spray enclosures; painting planes at Southwest bomber plants; air conditioning system. il Metal Finishing 40:629+ N '42; Same. Sheet Metal Worker 33:50-2 N '42; Same. Nat Safety N 46:32+ D '42

PAINTERS, Industrial

Diseases and hygiene

See also
Paint spraying—Safety measures

PAINTING

See also
Mural painting and decoration

PAINTING, Industrial

Ceiling repainting schedules for maximum lighting efficiency. Nat Safety N 45:74-5 Ja '42

Flame-priming steel for painting. il Metal Finishing 40:395, 397 Jl '42

Practical estimating for painters and decorators. W. P. Crannell. 166p $2 Drake '42

Rolls apply paint to aircraft parts. il Am Mach 86:730 Jl 9 '42

Specification standards for government work; painting. H. R. Sleeper. Arch Rec 91:64-6 Mr '42

Torch derusts penstock for painting; abstract. Eng N 129:39 Jl 2 '42

War paint; protective, blackout, camouflage, etc. Nat Safety N 45:75-6 Mr '42

See also
Airplanes—Painting
Automobiles—Painting and finishing
Bridge painting
Chemical laboratories—Painting
Concrete—Painting
Factories—Painting
House painting
Lacquer and lacquering
Machinery—Painting
Motor buses—Painting
Paint
Paint, Protective
Paint spraying
Ships—Painting
Varnish and varnishing

Estimates

Practical estimating for painters and decorators. W. P. Crannell. 166p $2 Drake '42

PAINTING and decorating contractors of America

Annual convention, 58th, New Orleans, Feb. 3-6. Oil Paint & Drug Rep 141:5+ F 16 '42

PAINTING materials. See Artists' materials

PAJAMAS

Pajama predicament. Ptr Ink 199:39 My 8 '42

PALEOBOTANY

Coal paleobotany. R. Thiessen and G. C. Sprunk. pls U S Bur Mines Tech Pa 631:1-56; pa 15c Supt. of doc. '41

See also
Algae, Fossil
Gums and resins, Fossil
Leaves, Fossil
Trees, Fossil

Cretaceous

Cycadeoid types of the Kansas cretaceous. G. R. Wieland. il pl Am J Sci 240:192-203 Mr '42

Eocene

Middle eocene flora from the central Sierra Nevada. H. D. MacGinitie. 178p bibliog(p164-7) $2.50; pa $2 Carnegie institution of Washington, Washington, D.C. '41

Paleozoic

Some paleozoic plants from central Colorado and their stratigraphic significance. C. A. Arnold. p59-70 bibliog(p70) pa 25c Univ. of Michigan press, Ann Arbor '41

Permian

Permian lime-secreting algae from the Guadalupe mountains, New Mexico. J. H. Johnson. il diags Geol Soc Bul 53:195-226, pl 1-7 bibliog(p218-19) F '42

Quaternary

Paleoecology of two peat deposits on the Oregon coast. H. P. Hansen. 31p bibliog(p30-1) pa 50c Oregon state college, Corvallis '41

California

Middle eocene flora from the central Sierra Nevada. H. D. MacGinitie. 178p bibliog(p164-7) $2.50; pa $2 Carnegie institution of Washington, Washington, D.C. '41

Colorado

Some paleozoic plants from central Colorado and their stratigraphic significance. C. A. Arnold. p59-70 bibliog(p70) pa 25c Univ. of Michigan press, Ann Arbor '41

Iowa

Study of arborescent lycopod leaves associated with lepidodendron selaginoides Sternberg stems in Iowa coal balls. L. R. Wilson and I. Tillapaugh. diags Am J Sci 240:394-402 Je '42

Kansas

Cycadeoid types of the Kansas cretaceous. G. R. Wieland. il pl Am J Sci 240:192-203 Mr '42

New Mexico

Permian lime-secreting algae from the Guadalupe mountains, New Mexico. J. H. Johnson. il diags Geol Soc Bul 53:195-226, pl 1-7 bibliog(p218-19) F '42

Oregon

Paleoecology of two peat deposits on the Oregon coast. H. P. Hansen. 31p bibliog(p30-1) pa 50c Oregon state college, Corvallis '41

PALEOCLIMATOLOGY

Post-glacial climatic amelioration and the extinction of bison taylori. L. C. Eiseley. bibliog Science 95:646-7 Je 26 '42

Studies on Connecticut Lake sediments; the biostratonomy of Linsley pond. E. S. Deevey, jr. diags Am J Sci 240:233-64, 313-24 bibliog(p322-4) Ap-My '42

Too hot for the dinosaur! G. R. Wieland. Science 96:359 O 16 '42

PALEOGEOGRAPHY

Paleozoic paleogeography of Arizona. A. Stoyanow. map diags Geol Soc Bul 53:1255-82, pl 1-5 bibliog(p 1279-82) S '42

Permian of west Texas and southeastern New Mexico; paleogeography and geologic history. P. B. King. bibliog maps Am Assn Pet Geologists Bul 26:711-63 Ap '42

Rhythm of Permian seas; a paleogeographic study. J. M. Hills. bibliog pls diags Am Assn Pet Geologists Bul 26:217-55 F '42

PALEONTOLOGICAL models

How to make a mastodon. C. S. Johnston. il Sci Am 165:333-4 D '41

PALEONTOLOGICAL society

Proceedings of the 33d annual meeting, Boston, Dec. 29-31, 1941. Geol Soc Proc 1941:215-26 Mr '42

PALEONTOLOGY

Abstracts of the Paleontological society, December meeting, Boston; Pacific Coast branch meeting, Stanford university, April. Geol Soc Bul 52:1961-85 pt 2 D '41

PALEONTOLOGY—*Continued*

Abstracts of the Society of vertebrate paleontology, December meeting, Boston. Geol Soc Bul 52:1987-92, pt 2 D '41

Contributions by the Council of scientific societies of western New York; first symposium, Nov. 23, 1940. 64p Buffalo museum of science press, Buffalo, N.Y. '42

Paleontology, an appraisal. L. W. Stephenson. Geol Soc Bul 53:373-9 Mr '42

Post-glacial climatic amelioration and the extinction of bison taylori. L. C. Eiseley. bibliog Science 95:646-7 Je 26 '42

Use of bromoform in the separation of non-calcareous microfossils. A. S. Knox. Science 95:307-8 Mr 20 '42

See also

Cephalopoda, Fossil
Conodonts
Crinoidea, Fossil
Gasteropoda, Fossil
Graptolites
Insects, Fossil
Mammals, Fossil
Micropaleontology
Paleobotany
Trilobites
Vertebrates, Fossil

Cambrian

Cambrian-Ordovician boundary in the Adirondack-Border region. R. R. Wheeler. bibliog Am J Sci 240:518-24 Jl '42

Faunal content of the Maryville formation. C. E. Resser. Smithsonian Misc Coll v 101, no 10:1-8 '42

Fifth contribution to nomenclature of Cambrian fossils. C. E. Resser. bibliog Smithsonian Misc Coll v 101, no 15:1-58 '42

Laotirid from the upper Cambrian of Wyoming. K. E. Caster. bibliog Am J Sci 240: 104-12, pl 1 F '42

Lower (?) Cambrian fauna from eastern Gaspé, Quebec. C. H. Kindle. Am J Sci 240:633-41, pl 1-2 S '42

New mid-Cambrian ptychoparid. R. R. Wheeler. bibliog Am J Sci 240:567-70, pl 1 Ag '42

New upper Cambrian trilobites. C. E. Resser. Smithsonian Misc Coll v103, no5:1-136, pls 1-21 '42

Carboniferous

Chester ostracodes of Illinois. C. L. Cooper. 101p bibliog(p65-6) pa 25c State geological survey, Urbana, Ill. '41

Lower Pennsylvanian (Dimple limestone) conodonts of the Marathon region, Texas. S. Ellison and R. W. Graves, jr. bibliog il diag Mo U Sch Mines & Met Bul tech ser v 14, no 3:1-21 '41

Mississippian formations of Sacramento mountains, New Mexico. L. R. Laudon and A. L. Bowsher. il diags maps Am Assn Pet Geologists Bul 25:2107-60 bibliog(p2158-60) D '41

See also

Fusulina

Cretaceous

Description of fossil fishes from the upper cretaceous of North America. J. H. Dante. bibliog Am J Sci 240:339-48, pl 1-2 My '42

Hadrosaurian dinosaurs of North America. R. S. Lull and N. E. Wright. il diags Geol Soc Special Pa no 40:1-242, pl 1-31 bibliog (p231-8) '42

Larger invertebrate fossils of the Navarro group of Texas (exclusive of corals and crustaceans and exclusive of the fauna of the Escondido formation). L. W. Stephenson. 641p $4.25 Univ. of Texas, Austin '41

New ichthyosaur from the late cretaceous, northeast Wyoming. R. L. Nace. bibliog Am J Sci 239:908-14, pl 1 D '41

Upper cretaceous formations and faunas of southern California. W. P. Popenoe. bibliog diag maps Am Assn Pet Geologists Bul 26:162-87 F '42

Devonian

Age and fossils of the Olentangy shale of central Ohio. R. C. Baker. Am J Sci 240: 137-43, pl 1-3 F '42

Color-patterns in Devonian terebratuloids. P. E. Cloud, jr. Am J Sci 239:905-7 D '41

New Devonian (Hamilton) correlations. G. A. Cooper and A. S. Warthin. diags map Geol Soc Bul 53:873-88 bibliog(p887-8) Je '42

Terebratuloid brachiopoda of the Silurian and Devonian. P. E. Cloud, jr. il Geol Soc Special Pa no 38:1-182, pl 1-26 bibliog(p 147-50) '42

Eocene

Eocene radiolarian faunas from the Mt Diablo area, California. B. L. Clark and A. S. Campbell. diag maps Geol Soc Special Pa no 39:1-112, pl 1-9 bibliog(p95) '42

Foraminiferal genus hantkenina and its subgenera. H. E. Thalmann. bibliog Am J Sci 240:809-20, pl 1 N '42

Hantkenina in the eocene of East Borneo. H. E. Thalmann. (Geological sciences, v 3, no 1) 24p bibliog(p22-4) pa 50c Stanford univ. press '42

New titanothere from the eocene of Mississippi, with notes on the correlation between the marine eocene of the Gulf coastal plain and continental eocene of the Rocky Mountain region. C. L. Gazin and J. M. Sullivan. il Smithsonian Misc Coll v 101, no 13:1-13, pls 1-3 '42

Jurassic

Late Jurassic fossils from Cuba and their economic significance. R. W. Imlay. maps Geol Soc Bul 53:1417-77, pl 1-12 bibliog(p 1461-4) O '42

Oligocene

Oligocene foraminifera near Millry, Alabama. J. A. Cushman and W. McGlamery. U S Geol S Professional Pa 197-B:65-84, pl 4-7; pa 10c Supt. of doc. '42

Study of amber spiders. A. Petrunkevitch. 464p bibliog(p451-4) pa $6 Connecticut academy of arts and sciences, New Haven '42

Two new fossil birds from the oligocene of South Dakota. A. Wetmore. il Smithsonian Misc Coll v 101, no 14:1-6 '42

Ordovician

Cambrian-Ordovician boundary in the Adirondack-Border region. R. R. Wheeler. bibliog Am J Sci 240:518-24 Jl '42

Ordovician conodonts of the Marathon basin, Texas. R. W. Graves, jr. and S. Ellison. il diag map Mo U Sch Mines & Met Bul tech ser v 14, no 2:1-26 bibliog(p15-16) '41

Paleontological collections at the University of Cincinnati. K. E. Caster. Science 95:454-5 My 1 '42

Supposed color-markings in Ordovician trilobites from Ohio. J. W. Wells. diag pl Am J Sci 240:710-13 O '42

Upper Ordovician fauna of Frobisher bay, Baffin Land. S. K. Roy. 212p bibliog(p198-205) pa $3.50 Field museum of natural history, Chicago '41

Paleozoic

Certain American paleozoic fishes. A. S. Romer. bibliog pl Am J Sci 240:216-28 Mr '42

Paleontology and geology. R. Ruedemann; B. F. Howell. (New York state museum bul. 327) 98p Univ. of the state of New York, Albany '42

Permian

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26: 535-763 Ap '42

Pliocene

Pliocene vertebrates from Big Spring canyon, South Dakota. J. T. Gregory. (Bul. of the dept. of geol. sciences v 26, no 4) p307-445 bibliog(p434-8) pa $2 Univ. of Calif. press, Berkeley '42

Pliocene waterhole in western Kansas. G. F. Sternberg and G. M. Robertson. Science 95: 97 Ja 23 '42

PALEONTOLOGY—*Continued*

Pre-Cambrian

Fossil, world's oldest evidence of animal life; may be imprint of jellyfish; came from pre-Cambrian deposits of Grand canyon of Arizona. Sci Am 166:72 F '42

Silurian

Silurian graptolite zone in Crane county, Texas. C. E. Decker. il Am Assn Pet Geologists Bul 26:857-61 My '42

Terebratuloid brachiopoda of the Silurian and Devonian. P. E. Cloud, jr. il Geol Soc Special Pa no 38:1-182, pl 1-26 bibliog(p 147-50) '42

Tertiary

Louisiana tertiary bryozoa. J. H. McGuirt. (Geological bul. 21) 177p bibliog(p171-4) Dept. of conservation, Geological survey, Baton Rouge, La. '41

Neglected Gulf Coast tertiary microfossils. H. V. Howe. bibliog Am Assn Pet Geologists Bul 26:1188-99, pl 1-4 Jl '42

Occurrence of the tertiary marine mammal Cornwallius in lower California. V. L. Vanderhoof. diags Am J Sci 240:298-301 Ap '42

Triassic

Triassic footprints from Argentina. R. S. Lull. diags Am J Sci 240:421-5, pl 1 Je '42

Adirondack-Border region

Cambrian-Ordovician boundary in the Adirondack-Border region. R. R. Wheeler. bibliog Am J Sci 240:518-24 Jl '42

Alabama

Oligocene foraminifera near Millry. J. A. Cushman and W. McGlamery. U S Geol S Professional Pa 197-B:65-84, pl 4-7; pa 10c Supt. of doc. '42

Alaska

Ground sloth in Alaska. C. Stock. Science 95: 552 My 29 '42

Argentina

Triassic footprints from Argentina. R. S. Lull. diags Am J Sci 240:421-5, pl 1 Je '42

Arizona

Fossil, world's oldest evidence of animal life; may be imprint of jellyfish; came from pre-Cambrian deposits of Grand canyon of Arizona. Sci Am 166:72 F '42

California

Eocene radiolarian faunas from the Mt Diablo area. B. L. Clark and A. S. Campbell. diags maps Geol Soc Special Pa no 39:1-112, pl 1-9 bibliog(p95) '42

Fossil birds of California; an avifauna and bibliography with annotations. L. Miller and I. DeMay. 142p pa $1 Univ. of California press, Berkeley '42

Upper cretaceous formations and faunas of southern California. W. P. Popenoe. bibliog diag maps Am Assn Pet Geologists Bul 26:162-87 F '42

California, Lower

Occurrence of the tertiary marine mammal Cornwallius in lower California. V. L. Vanderhoof. diags Am J Sci 240:298-301 Ap '42

Connecticut

Studies on Connecticut Lake sediments; the biostratonomy of Linsley pond. E. S. Deevey, jr. diags Am J Sci 240:233-64, 313-24 bibliog(p322-4) Ap-My '42

Costa Rica

Amoura shale, Costa Rica. P. P. Goudkoff and W. W. Porter, 2d. bibliog map Am Assn Pet Geologists Bul 26:1647-55 O '42

Cuba

Late Jurassic fossils from Cuba and their economic significance. R. W. Imlay. maps Geol Soc Bul 53:1417-77, pl 1-12 bibliog(p 1461-4) O '42

Florida

Contributions to Florida vertebrate paleontology; A fossil squirrel-fish from the upper eocene of Florida, by G. M. Conrad; The rostrum of felsinotherium ossivalense, by J. T. Gregory. (Geological bul. 22) 47p bibliog(p18, 41) Dept. of conservation, State geological survey, Tallahassee, Fla. '41

Stratigraphic and paleontologic studies of wells in Florida. W. S. Cole. (Geological bul. 19) 91p Dept. of conservation, State geological survey, Tallahassee, Fla. '41

Gaspé peninsula

Lower (?) Cambrian fauna from eastern Gaspé, Quebec. C. H. Kindle. Am J Sci 240:633-41, pl 1-2 S '42

Gulf Coast region

Neglected Gulf Coast tertiary microfossils. H. V. Howe. bibliog Am Assn Pet Geologists Bul 26:1188-99, pl 1-4 Jl '42

Honduras

Field Museum paleontological expedition to Honduras. P. O. McGrew. Science 96:85 Jl 24 '42

Illinois

Chester ostracodes of Illinois. C. L. Cooper. 101p bibliog(p65-6) pa 25c State geological survey, Urbana, Ill. '41

Kansas

1941 reports of studies. 431p Kansas. Geological survey, Univ. of Kansas, Lawrence '41

Pliocene waterhole in western Kansas. G. F. Sternberg and G. M. Robertson. Science 95:97 Ja 23 '42

Louisiana

Louisiana tertiary bryozoa. J. H. McGuirt. (Geological bul. 21) 177p bibliog(p171-4) Dept. of conservation, Geological survey, Baton Rouge, La. '41

Massachusetts

New mid-Cambrian ptychoparid. R. R. Wheeler. bibliog Am J Sci 240:567-70, pl 1 Ag '42

Missouri

Earliest account of the Association of human artifacts with fossil mammals in North America; article by A. C. Koch printed in 1839. M. F. A. Montagu. Science 95:380-1 Ap 10 '42

Nebraska

Skull of Megalagus turgidus (Cope). E. C. Olson. il Am J Sci 240:505-11 Jl '42

New Mexico

Mississippian formations of Sacramento mountains. L. R. Laudon and A. L. Bowsher. il diags maps Am Assn Pet Geologists Bul 25:2107-60 bibliog(p2158-60) D '41

New genera of Pennsylvanian fusulinids. M. L. Thompson. Am J Sci 240:403-20, pl 1-3 Je '42

New York (state)

New Devonian (Hamilton) correlations. G. A. Cooper and A. S. Warthin. diags map Geol Soc Bul 53:873-88 bibliog(p887-8) Je '42

Paleontology and geology. R. Ruedemann; B. F. Howell. (New York state mueum bul. 327) 98p Univ. of the state of New York, Albany '42

Restudy of the Schoharie and Esopus formations in New York state. W. Goldring and R. H. Flower. bibliog Am J Sci 240:673-94 O '42

North America

Ozarkian and Canadian cephalopods; nautilicones. E. O. Ulrich and others. diags Geol Soc Special Pa no 37:1-157, pl 1-57 bibliog (p87-96) '42

PALEONTOLOGY—*Continued*

Ohio

Age and fossils of the Olentangy shale of central Ohio. R. C. Baker. Am J Sci 240: 137-43, pl 1-3 F '42

Supposed color-markings in Ordovician trilobites from Ohio. J. W. Wells. diag pl Am J Sci 240:710-13 O '42

South Dakota

Pliocene vertebrates from Big Spring canyon. J. T. Gregory. (Bul. of the dept. of geol. sciences v 26, no 4) p307-445 bibliog(p434-8) pa $2 Univ. of Calif. press, Berkeley '42

Viola well core from South Dakota. C. E. Decker. il Am Assn Pet Geologists Bul 26: 123-6 Ja '42

Texas

Final report covering the period from March 4, 1939 to Sept. 30, 1941 for the State-wide paleontologic-mineralogic survey in Texas. 85 numb l Univ. of Texas, Bur. of economic geology, Austin '41

Larger invertebrate fossils of the Navarro group of Texas (exclusive of corals and crustaceans and exclusive of the fauna of the Escondido formation). L. W. Stephenson. 641p $4.25 Univ. of Texas, Austin '41

Lower Pennsylvanian (Dimple limestone) conodonts of the Marathon region. S. Ellison and R. W. Graves, jr. bibliog pls Mo U Sch Mines & Met Bul tech ser v 14 no 3:1-21 '41

Ordovician conodonts of the Marathon basin. R. W. Graves, jr. and S. Ellison. pls map Mo U Sch Mines & Met Bul tech ser v 14 no 2:1-26 bibliog(p15-16) '41

Silurian graptolite zone in Crane county, Texas. C. E. Decker. il Am Assn Pet Geologists Bul 26:857-61 My '42

Wyoming

Chugwater footprints from Wyoming. R. S. Lull. pl(p488A) il Am J Sci 240:500-4 Jl '42

Laotirid from the upper Cambrian of Wyoming. K. E. Caster. bibliog Am J Sci 240: 104-12, pl 1 F '42

New ichthyosaur from the late cretaceous, northeast Wyoming. R. L. Nace. bibliog Am J Sci 239:908-14, pl 1 D '41

PALESTINE

Middle East. il Fortune 25:172+ F '42

See also

Chemical industries—
Palestine

Commerce

Palestine's supply problems. Economist 141: 626 N 22 '41

Economic conditions

Palestine in the third year of war. Economist 142:226 F 14 '42

Palestine's economy. R. J. Barr. il map For Comm W 8:3-7+ S 12 '42

War economy in Palestine. Economist 143:78 Jl 18 '42

Industries and resources

Industrial Palestine. Economist 143:207 Ag 15 '42

Plight of Jaffa citrus. Economist 143:110-11 Jl 25 '42

PALLADIUM

Applicability of palladium synthetic high polymer catalysts. L. D. Rampino and F. F. Nord. Am Chem Soc J 63:3268 D '41

Industrial uses of chemicals. Oil Paint & Drug Rep 141:50 F 2 '42

Mechanism of the catalytic conversion of para-hydrogen on nickel, platinum and palladium. A. Farkas and L. Farkas. bibliog Am Chem Soc J 64:1594-9 Jl '42

Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

Analysis

Colorimetric detection and determination of palladium with compounds containing the *p*-nitrosophenylamino group. L. G. Overholser and J. H. Yoe. Am Chem Soc J 63: 3224-9 N '41

Determination of palladium with beta-furfuraldoxime. J. R. Hayes and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14: 491-3 Je 15 '42

PALLADIUM chlorides

Colorimetric determination of phenothiazine with palladous chloride. L. G. Overholser and J. H. Yoe. Ind & Eng Chem Anal ed 14:646-7 Ag 15 '42

Industrial uses of chemicals. Oil Paint & Drug Rep 141:34 Ja 26 '42

PALLETS

Foundry supplies handled on pallets; Pontiac motor division of General motors corp. il Iron Age 149:47 Ja 22 '42

Handling refractories with fork trucks and pallets cuts costs, speeds masonry operations. il Steel 111:84+ Jl 20 '42

Trucks and pallets bring handling costs to earth; General electric co., Bridgeport. C. H. Barker, jr. il Factory Management 99: 60-2 D '41

PALM Beach cloth

Tropical topic; summer suitings. Business Week p35-6 Je 6 '42

Washing Palm Beach suits; abstract. Soap & San Chem 18:69 Ag '42

PALM oil

Nigerian palm-oil and palm-kernels market. For Comm W 7:27-8 My 2 '42

Nigerian palm-oil industry. For Comm W 6: 22 Ja 10 '42

Palm-oil industry of Malaya and Netherlands Indies. For Comm W 6:20-2 F 7 '42

Search for palm oil substitute intensified; reserves fairly large. Steel 110:69 My 18 '42

Small oil-bleach plant; abstract. N. G. Weir. Soap & San Chem 18:71 N '42

Vegetable oils in sugar confectionary; sweetening agents; solubilising starch. A. E. Williams. Chem Age (Lond) 47:362-4 O 24 '42

Vegetable oils that U.S. needs from American tropics. K. S. Markley. Oil Paint & Drug Rep 142:7 Ag 17 '42

War time problems of the soap maker. A. P. Lee. il Soap & San Chem 18:23-6+ Je '42

PALMITIC acid

Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64: 2144-6 S '42

PALYI, Melchior, 1892-

What is going to happen to prices? M. Palyi. por Am Business 11:14-16 D '41

PAMPHLETS

See also

Advertisements—
Books and booklets

Bibliography

Citizen and defense; list of free and inexpensive material. Library Journal [New York] 67:32-5 Ja 1 '42

Free and inexpensive learning materials; a selected and annotated list. M. C. Crigler. (Bul. 79) 176p pa 70c George Peabody college for teachers, Curriculum laboratory, Nashville, Tenn. '41

Vertical file service catalog; annotated subject catalog of pamphlets. Published monthly by H. W. Wilson co.

PANAMA

See also

Labor laws and legislation—Panama
Roads—Panama

Economic conditions

News by countries. Published in Foreign commerce weekly

Panama; economy of a strategic nation. il For Comm W 8:10-11+ Jl 4 '42

PANAMA—*Continued*

Foreign relations

United States

Concessions for Panama asked by Roosevelt. Comm & Fin Chr 156:717 Ag 27 '42
U.S.-Panama defense pact. Comm & Fin Chr 155:1941 My 21 '42

PANAMA canal
Bridge joins continents at Panama canal. il Eng N 128:348-9 F 26 '42
Goethals and the Panama canal. H. Fast. 230p bibliog(p225-6) $2.50 Julian Messner, New York '42
Lock work at Panama modified by order. Eng N 128:885 My 28 '42
Moving a 200-ton dredge overland to the new Panama Canal lock site. il Eng N 127:721 N 20 '41
Panama Canal hydraulics laboratory. F. W. Edwards. il plan Civil Eng 12:137-9 Mr '42
Panama canal in peace and war. N. J. Padelford. 327p $3 Macmillan '42

History

That land called Darien. W. H. Fenley. W Soc E J 47:94-114 Je '42

PANAMA Canal Zone
More power for America; Diesel-powered equipment is speeding work on defense line across the Isthmus of Panama. G. W. Cunningham. il Diesel Power 20:495-6 Je '42

PANAMA Coca-Cola bottling company
Common stock offered. Comm & Fin Chr 155:307-8 Ja 20 '42

PAN AMERICAN airways
Annual report, 1941. Comm & Fin Chr 155:1843 My 11 '42
Pan American's world-wide airways. S. Altschul. map Barron's 21:8 N 17 '41
Rate cut ordered. Comm & Fin Chr 156:963 S 14 '42

PAN AMERICAN conferences
Havana conference of committees on intellectual cooperations from American countries. Science 94:sup10 N 28; sup10 D 5 '41
Pan-American conference gives assurance unity and solidarity of western hemisphere. Comm & Fin Chr 155:584 F 5 '42

See also
Inter-American conference on social security

PAN AMERICAN congress of mining engineering and geology
First congress, Santiago, Chile, Jan. 15-23. C. W. Wright. Min & Met 23:175 Mr '42
Success marks first Pan-American mining congress held in Chile. J. B. Huttl. Eng & Min J 143:108+ F '42

PAN AMERICAN health day
Pan American health day. Pub Health Rep 56:2189-91 N 14 '41

PAN AMERICAN highway
By Pan American highway through South America. H. C. Lanks. 205p $5 Appleton-Century '42
Hemisphere highway to victory. H. C. Lanks. il Roads & Sts 85:35-9 Ag '42
Highway progress in Nicaragua. For Comm W 7:26 My 23 '42
Latin American development and the All-American highway. Roads & Sts 85:64+ O '42
Lifeline of the New World. il map For Comm W 6:3-5+ Ja 24 '42; Same. Roads & Sts 85:56, 58, 60-1 Mr '42
Mexican highway program for 1942. C. Bazan. For Comm W 6:19 Mr 21 '42
New link in Pan American highway; Lempa River bridge. il For Comm W 8:7+ Jl 18 '42
Pan American highway construction award made to civilian contractors. Eng N 129:340 S 10 '42
Pan American highway in Brazil. For Comm W 6:13 Mr 14 '42
Pan-American highway to be completed next year. Can Eng R & B 79:58-9 D '41

PAN-AMERICAN highway congress
Pan-American highway congress promotes standardization. R. E. Harper. Ind Stand 13:33-4 F '42

PAN AMERICAN petroleum and transport company
Consolidated statement of profit and loss for calendar years, 1940 and 1941. Comm & Fin Chr 156:258 Jl 20 '42

PAN AMERICAN refining corporation
Who's who in refining. Oil & Gas J 41:177 Jl 30 '42

PAN AMERICAN scientific conference
Meeting in Mexico, Feb. 15-26. Science 95:164-5 F 13 '42

PAN AMERICANISM
Blueprint for our future; resolutions of Rio no final act. W. C. Taylor. il For Comm W 6:3-7 F 28 '42
Complete handbook on western hemisphere union. J. W. Walch. 150p, 11p pa $2.50 Platform news pub. co, 45A Free st, Portland, Me. '40
Cultural bases of hemispheric understanding. 94p Inst. of Latin-American studies, Univ. of Texas, Austin '42
Declares Pan-American ideal can serve as international pattern. H. A. Wallace. Comm & Fin Chr 155:1632 Ap 23 '42
Economic front of the western hemisphere during the war and after. V. L. Horoth. il Mag of Wall St 70:323-6 Jl 11 '42
Era of hemisphere understanding hailed. S. Welles. Comm & Fin Chr 155:951 Mr 5 '42
Foreign trade's pattern of the future. W. Chatfield-Taylor. For Comm W 7:3+ My 30 '42; Excerpts. Comm & Fin Chr 155:2036 My 28 '42
Foresees western hemisphere as economic regional unit. J. B. Thomas. For Comm W 7:35 Je 6 '42
Foundations of inter-American solidarity. L. Duggan. For Comm W 6:8-9+ Ja 10 '42
Good neighbors' progress. il For Comm W 7:27-8 My 16; 34-5 Je 6; 9:10-11 O 3 '42
Hemispheric program for economic control. H. D. Ralph. Burroughs Clearing House 26:19-20 Ag '42
Implementing the resolutions of Rio. W. LaVarre. For Comm W 7:11+ Je 27 '42
Improvement and coordination of inter-American peace instruments (resolution XV of the eighth International conference of American states). v 1 pt 1 89p; v3 142p; v4 14p Pan American union, Washington, D.C. '41
Inter-American affairs, 1941. A. P. Whitaker, ed. 240p $3 Columbia univ. press '42
Inter-American solidarity. W. H. C. Laves, ed. 228p $1.50 Univ. of Chicago press '41
International role of science in time of war and peace. C. P. Coe. il For Comm W 5:3+ N 29 '41
Mission of the Americas in world affairs. L. S. Rowe. Ann Am Acad 222:74-9 Jl '42
Neighborhood trade: hemisphere version. J. C. Rovensky. il Am Inst Banking Bul 24:3-4 Ap '42
Pan American progress. P. L. Green. 214p bibliog(p202-6) $2 Hastings house, New York '42
Pan-Americana—past tense; contributions of U.S. citizens to cultural and economic development of Latin America. G. M. Jones. For Comm W 7:6+ Ap 25 '42
Pan-Americanism; over-the-counter; R. H. Macy & co.'s Latin American fair. Barron's 22:5 Ja 5 '42
Potential of inter-American economics. C. A. McQueen. map Elec Eng 61:25-30 Ja '42
Report to the National committee of the United States of America on international intellectual cooperation; second American conference on National committees on intellectual cooperation, Havana, Cuba, Nov. 15-22, 1942. E. E. Ware. 109p Nat. committee of the U.S. of Am. on international intellectual cooperation, New York '42
Trade scholarships for young men of the other Americas. For Comm W 8:32 Ag 8 '42

PAN AMERICANISM—*Continued*
Western-hemisphere cultural bonds in wartime. C. A. Thompson. For Comm W 6:27 Ja 17 '42

See also
America
Latin America

Bibliography

Theses on Pan American topics. 3d ed rev & enl 170p pa 75c Pan American union, Washington, D.C. '41

Directories

Directory of inter-American activities of agencies and organizations in the Chicago area. 31p Pan American council, 84 E. Randolph st, Chicago '42

PANCREAS
Deproteinated pancreatic extract; use in thromboangiitis obliterans. G. S. King. bibliog Ind Med 10:530-2 D '41

PANEL system. See Heating—Panel system; Hot water heating—Panel system

PANEL work. See Paneling

PANELING
Modern music recording studio; action of convex wood splays. M. Rettinger. bibliog il Soc Motion Picture Eng J 39:186-94 S '42
Paneling in knotty pine. R. J. Alexander. diags Am Bld 64:66-7+ Je '42
Polycylindrical diffusers in room acoustic design. J. E. Volkmann. il diags Acoustical Soc Am J 13:234-43 Ja '42
Structural panels build quick homes for war workers. B. L. Johnson. il diags plans Am Bld 64:40-3+ S '42

PANELS, Concrete. See Concrete panels

PANELS, Decorative
Blackout panels for homes can be made decorative. il Am Bld 64:62 Je '42

PANHANDLE eastern pipe line company
Columbia gas & electric corp.; SEC approves plan for sale of company's holdings. Comm & Fin Chr 156:1324 O 12 '42
Consolidated income statement, 1940 and 1941. Comm & Fin Chr 156:258 Jl 20 '42
Financial news and comment. O. Ely. map Pub Util 29:363-5 Mr 12 '42
Pays Columbia gas & electric corp. and Ohio fuel gas co. for properties. Comm & Fin Chr 155:698 F 14 '42
Reports record earnings for 1941. Comm & Fin Chr 155:1018 Mr 9 '42
SEC orders company divorced from the holding unit of Columbia gas system. Comm & Fin Chr 155:1414-15 Ap 6 '42
To purchase its preferred stock held by Columbia Oil. Comm & Fin Chr 155:1843 My 11 '42
$25,000,000 bonds and preferred stock offered. Comm & Fin Chr 155:605 F 7 '42

PANORAMIC reception. See Radio receiving apparatus

PAN PACIFIC relations
Atlas and Far Eastern politics. G. F. Hudson and M. Rajchman. enl ed 207p $2.50 Day '42
Fire in the Pacific. S. Harcourt-Smith. 236p $2 Knopf '42
United States in a new world; series of reports on potential courses for democratic action; Pacific relations. il map Fortune 26: suppl-33 Ag '42

PANTOTHENIC acid
Activities of analogues of pantothenic acid in promoting and inhibiting growth of pathogenic bacteria; abstract. H. McIlwain, J. Barnett and F. A. Robinson. Chem & Ind 61:96 F 21 '42
Effect of increased pantothenic acid in the egg on the development of the chick embryo. A. Taylor, J. Thacker and D. Pennington. Science 94:542-3 D 5 '41
Feather depigmentation and pantothenic acid deficiency in chicks. T. C. Groody and M. E. Groody. bibliog Science 95:655-6 Je 26 '42
Microbiologic assay of natural pantothenic acid in yeast and liver; influence of clarase digestion. E. Willerton and H. W. Cromwell. bibliog Ind & Eng Chem Anal ed 14:603-4 Jl 15 '42
Porphyrin nature of the fluorescent blood caked whiskers of pantothenic acid deficient rats. L. W. McElroy and others. bibliog Science 94:467 N 14 '41
Preparation and properties of sodium *d*-pantothenate. H. C. Parke and E. J. Lawson. Am Chem Soc J 63:2869-71 N '41

Analysis

Growth stimulants in the microbiological assay for riboflavin and pantothenic acid. J. C. Bauernfeind, A. L. Sotier and C. S. Boruff. Ind & Eng Chem Anal ed 14:666-71 Ag 15 '42
Growth-stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

PAO SANTO
Cork substitute from Brazil? D. R. Crone. For Comm W 7:6-7+ My 30 '42

PAPAIN
Papain from the pawpaw. E. M. Schwarztrauber. il For Comm W 7:7+ My 30 '42
Reversal of pneumococcus Quellung by digestion of the antibody with papain. G. M. Kalmanson and J. Bronfenbrenner. bibliog Science 96:21-2 Jl 3 '42
Use of enzymes in the refractometric method for egg solids; a production control method. W. M. Urbain, I. H. Wood and R. W. Simmons. bibliog Ind & Eng Chem Anal ed 14: 231-3 Mr 15 '42

PAPAYAS
Papaya production in the United States. H. P. Traub, T. R. Robinson and H. E. Stevens. il U S Agric Circ 633:1-36 bibliog (p35-6); pa 10c Supt. of doc. '42

PAPER
Aqualized paper fabric; substitute for cloth and burlap. il Paper Tr J 115:19 S 24 '42
How necessary is essential? Pulp & Pa of Can 43:848 O '42
Paper can win or lose a war. il Mod Packaging 15:33-5 My '42
Paper restrictions and the British medical journal. Science 95:457 My 1 '42
Plight of paper. il diag maps Mod Packaging 15:23-38 Jl '42
Properties of paper for various uses; recent work of Paper section, U.S. National bureau of standards. Pulp & Pa of Can 42: 783-5 D '41

See also
Crepe paper
Drawing paper
Dyes and dyeing—Paper
Filter paper
Indicators and test papers
Newsprint paper
Paper board
Photographic paper
Toilet paper
Tracing paper
Vulcanized fiber
Wall board
Waste paper
Wood pulp
Wrapping paper

Analysis

Chart for speck analysis. B. L. Browning and J. H. Graff. Paper Tr J 115:104-6 O 1 '42; Same cond. Paper Ind 24:870-3 N '42
Determination of sodium by the uranyl zinc acetate method; TAPPI tentative standard T 623 m-42. Paper Tr J 115:31-2 Ag 20 '42
Fiber composition of paper; revision of TAPPI standard T 401 m-39. bibliog Paper Tr J 115:23-7 Jl 9 '42
Hydrogen ion concentration of paper extracts; revision of TAPPI tentative standard T 435 m-34. bibliog Paper Tr J 115: 33-4 Jl 9 '42
Testing paper for rosin content. J. F. Reardon, E. R. Stasielowski and J. E. Minor. Paper Ind 23:1001-3 Ja '42

Bibliography

Chemical testing methods literature review. B. L. Browning. Paper Tr J 114:41-2 Mr 19 '42

PAPER—*Continued*

Bacteriology

See also
Paper making—
Bacteria control

Bibliography

Role of the technical librarian in the paper industry. A. C. Davies. Paper Tr J 115:32-6 O 29 '42

See also
Paper making—Bibliography

Brightness

Brightness of paper; TAPPI suggested method T 452 sm-41. Paper Tr J 113:39-42 D 25 '41

Brightness of pulp; TAPPI suggested method T 217 sm-41. Paper Tr J 113:43-7 D 25 '41

Colorimetry of pulp and paper with special reference to brightness and whiteness. D. B. Judd. Pulp & Pa of Can (Convention no) 43:94-100 bibliog(74 titles, p99-100) [F] '42

Influence of certain variables in forming brightness handsheets. C. M. Koon and D. D. Niemeyer. Paper Tr J 114:30-3 Ja 29 '42

Physical basis of standardization of brightness measurement. J. A. Van den Akker, P. Nolan and W. A. Wink. bibliog diag Paper Tr J 114:34-40 Ja 29 '42

Procedures and brightness grades in bleaching sulphate pulps. J. D. Rue and S. C. Nagel. Paper Tr J 114:26-33 Je 11 '42

Color

Colorimetry of pulp and paper with special reference to brightness and whiteness. D. B. Judd. Pulp & Pa of Can (Convention no) 43:94-100 bibliog(74 titles, p99-100) [F] '42

New reflectometer and a study of its performance. E. C. Bingham and D. Figlioli. bibliog il diags Paper Tr J 113:32-7 D 4 '41

See also
Dyes and dyeing—
Paper

Conservation

Canadian public asked to use less paper; joint advertising campaign of paper and pulp manufacturers. Paper Tr J 113:11 D 18 '41

Conservation and common sense in carrying on normal economy. F. S. Ennis. East Underw 43:28 My 1 '42; Same. Nat Underw 46:23+ Ap 30 '42

Conservation of paper supplies in the large organization. H. Smith. Pulp & Pa of Can 43:399 Ap '42

Goodrich saves million pounds of paper; Kraft cheese co. saves million pounds of board; one million trees for future pulp. il Mod Packaging 15:50-1+ My '42

How to conserve towels and tissue; campaign by Scott paper company. il Factory Management 100:120 My '42

Ideas for avoiding waste; bank supplies. il Bankers Mo 59:113-14 Mr '42

Where is the pinch on paper? K. R. Nelson. Adv & Sell 34:68+ D '41

Dirt content

Chart for speck analysis. B. L. Browning and J. H. Graff. Paper Tr J 115:104-6 O 1 '42; Same cond. Paper Ind 24:870-3 N '42

Chart for the estimation of dirt in pulp and paper. J. H. Graff and E. K. Nihlen. Paper Tr J 114:61-2 My 21 '42

Maintenance of clean paper. F. K. Becker. Paper Tr J 115:30-2 Jl 9 '42

Vortraps in maintenance and conservation. D. Robbins. Paper Tr J 114:99 Je 25 '42

Folding

Testing folding endurance of paper; standards of the American society for testing materials. Mod Packaging 15:54, 56+ Jl '42

Manufacture

See Paper making

Measurement

Core waste nomograph. D. S. Davis. Paper Ind 24:373 Jl '42

Moisture content

Hart moisture meters type K. il Paper Tr J 114:67 Je 25 '42

Moisture-vapor test cabinet. il diags Mod Packaging 16:78, 80, 82+ N '42

Multiple-specimen Neenah expansimeter. J. A. Van Den Akker, C. Root and W. A. Wink. il diags Paper Tr J 115:33-6 D 10 '42; Excerpts. Paper Ind 24:306-7 Je '42

See also
Paper drying

Opacity

Opacity variability as a measure of coated raw stock performance. F. H. Frost and C. Russell. diags Paper Tr J 114:41-2 Ja 8 '42

Optical properties

Forming handsheets for optical tests of pulp. Paper Tr J 114:45-6 My 7 '42

Reflection-transmission relationships in sheet materials. H. F. Launer. bibliog J Research Nat Bur Stand 27:429-42 N '41; Same. Opt Soc Am J 32:84-93 F '42

Permeability

Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42

Moisture-vapor test cabinet. il diags Mod Packaging 16:78, 80, 82+ N '42

Prices

Agree to lower jobbers' prices of kraft wrapping paper. Paper Tr J 113:11 D 4 '41

Government adopts drastic price control. Paper Tr J 114:8 My 14 '42

Late rulings on paper announced by OPA. Paper Tr J 115:9 Jl 2 '42

Market quotations. Published in weekly numbers of Paper trade journal

Maximum paper prices established by OPA. Paper Tr J 114:7+ My 7 '42

OPA freezes paper prices. Paper Tr J 114:16 F 12 '42

OPA sets kraft paper prices in small lots. Paper Tr J 115:7+ O 15 '42

Stabilization to prevent exorbitant prices. Inland Ptr 108:70-1 Mr '42

See also
Paper, Government

Printing properties

Behavior of paper towards ink; abstract. W. Brecht and E. Liebert. Paper Ind 23:838 N '41

Characterizing ink reception by paper; abstract. W. Brecht and E. Liebert. Chem & Met Eng 49:183 F '42

Experimental study of beater practice in the manufacture of offset papers. C. G. Weber and others. bibliog J Research Nat Bur Stand 28:241-64 Mr '42

Graphic arts committee TAPPI report, 1941. Paper Tr J 114:34 F 5 '42

Hidden offset causes ghost printing on coated paper. H. B. Marshall and A. M. Birks. il Inland Ptr 108:33-6 Mr '42

Knowledge of paper vital to the offset pressman. J. Stark. Inland Ptr 109:37-8 My '42

Measuring the internal bonding strength of papers. E. Sutermeister and H. W. Osgood, jr. il Paper Tr J 113:32-4 N 20 '41

Newsprint papers; relationship between ink drying and paper properties. L. J. Morin. Can Chem & Process Ind 26:370+ Je '42

Paper and makeready. Inland Ptr 109:43-4 Je '42

Paper characteristics versus ink coverage. G. Cramer. Paper Tr J 114:50-2 Mr 19 '42

Ply-bonding-strength test for paper and paperboard. J. F. Halladay and A. T. Luey. il diag Paper Tr J 114:35-8 F 5 '42

PAPER—Printing properties—*Continued*

Testing printability of paper with ink; use of an engravers proofpress. F. A. Weymouth. bibliog Paper Tr J 114:37-40 Ap 9 '42

What is tack? H. Green. Paper Tr J 114:39-42 F 5 '42

Why blame the paper? summary of printers' problems. E. Sutermeister. Pulp & Pa of Can 42:780-2 D '41

Protection

Pest-resistant preparation for paper. Paper Ind 24:505 Ag '42

Standards

Heat test for relative stability of paper; TAPPI tentative standard T453 m-41. Paper Tr J 113:33 D 18 '41

Physical basis of standardization of brightness measurement. J. A. Van den Akker, P. Nolan and W. A. Wink. bibliog diag Paper Tr J 114:34-40 Ja 29 '42

Stretch of paper and paperboard; TAPPI tentative standard T 457 m-42. Paper Tr J 115:39-40 Ag 13 '42

WPB recommendations for pulp and paper standardization and simplification. Mod Packaging 15:43 Mr '42

Wet tensile breaking strength of paper; TAPPI tentative standard T 456 m-42. Paper Tr J 115:31-2 Jl 30 '42

Strength

Instrumentation studies; measurement of the tensile strength of paper. diags Paper Tr J 115:12, 14-15, 18 Jl 30; 14, 16-18, 21-2 Ag 13; 18, 20, 22 N 5; 14-16, 21 D 24 '42

Internal tearing resistance of paper; revision of TAPPI standard method T 414 m-40. Paper Tr J 114:21-2 Je 18 '42

Measuring the internal bonding strength of papers. E. Sutermeister and H. W. Osgood, jr. il Paper Tr J 113:32-4 N 20 '41

Paper tests related; relationship between the bursting strength and tensile strength tests. D. Roberts. diag Pulp & Pa of Can 43:762-4 S '42

Ply-bonding-strength test for paper and paperboard. J. F. Halladay and A. T. Luey. il diag Paper Tr J 114:35-8 F 5 '42

Relation of lignin content to the strength of paper and paperboards. W. F. Fowler, jr. and W. M. Harlow. il Paper Tr J 114:29-30 Ap 2 '42

Relation of lignin content to the strength of paper and paperboards; pulpsheets and boards prepared from groundwood delignified by chlorine dioxide, sulphate, and soda processes. E. C. Jahn and C. V. Holmberg. bibliog Paper Tr J 114:33-8 Ap 23 '42

Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41

Wax test for surface strength of paper; TAPPI tentative standard T 459 m-42. Paper Tr J 115:30 O 22 '42

Wet tensile breaking strength of paper; TAPPI tentative standard T 456 m-42. Paper Tr J 115:31-2 Jl 30 '42

Testing

Application of the electron microscope to problems of the pulp, paper, and paperboard industry. G. R. Sears and E. A. Kregel. bibliog il diags Paper Tr J 114:43-9 Mr 19 '42; Same cond. Paper Ind 24:764+ O '42

Better laboratory and testing apparatus; forty years of progress. H. O. Keay. Pulp & Pa of Can 43:606-7 Jl '42

Brightness of paper; TAPPI suggested method T 452 sm-41. Paper Tr J 113:39-42 D 25 '41

Cross sectioning of paper. J. H. Graff and M. A. Schlosser. il Paper Tr J 114:119-23 F 19 '42

Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42

Forming handsheets for optical tests of pulp. Paper Tr J 114:45-6 My 7 '42

Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42

Heat test for relative stability of paper; TAPPI tentative standard T453 m-41. Paper Tr J 113:33 D 18 '41

Influence of certain variables in forming brightness handsheets. C. M. Koon and D. D. Niemeyer. Paper Tr J 114:30-3 Ja 29 '42

Instrumentation studies; measurement of the tensile strength of paper. diags Paper Tr J 115:12, 14-15, 18 Jl 30; 14, 16-18, 21-2 Ag 13; 18, 20, 22 N 5; 14-16, 21 D 24 '42

Instrumentation studies; Thwing multiple fold tester. il Paper Tr J 114:20+ Mr 26 '42

Internal tearing resistance of paper; revision of TAPPI standard method T 414 m-40. Paper Tr J 114:21-2 Je 18 '42

Measurement of greaseproofness. E. A. Georgi and P. Nolan. il diags Paper Tr J 115:33-40 S 10 '42; Excerpts. Paper Ind 24:430, 432 Jl '42

Measuring the internal bonding strength of papers. E. Sutermeister and H. W. Osgood, jr. il Paper Tr J 113:32-4 N 20 '41

Moisture-vapor test cabinet. il diags Mod Packaging 16:78, 80, 82+ N '42

Multiple-specimen Neenah expansimeter. J. A. Van Den Akker, C. Root and W. A. Wink. il diags Paper Tr J 115:33-6 D 10 '42; Excerpts. Paper Ind 24:306-7 Je '42

New reflectometer and a study of its performance. E. C. Bingham and D. Figlioli. bibliog il diags Paper Tr J 113:32-7 D 4 '41

Paper testing committee report, 1941. B. W. Scribner. Paper Tr J 114:29 Ja 29 '42

Paper tests related; relationship between the bursting strength and tensile strength tests. D. Roberts. diag Pulp & Pa of Can 43:762-4 S '42

Physical basis of standardization of brightness measurement. J. A. Van den Akker, P. Nolan and W. A. Wink. bibliog diag Paper Tr J 114:34-40 Ja 29 '42

Physical testing of pulp handsheets; TAPPI tentative standard T 220 m-42. diag Paper Tr J 115:35-6 O 22 '42

Ply-bonding-strength test for paper and paperboard. J. F. Halladay and A. T. Luey. il diag Paper Tr J 114:35-8 F 5 '42

Resistance to tear and the measurement of surface friction or slip of paper; Williams tear tester. F. M. Williams. il Paper Tr J 114:16-17 Ap 9 '42

Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41

Stretch of paper and paperboard; TAPPI tentative standard T 457 m-42. Paper Tr J 115:39-40 Ag 13 '42

Surface wettability of paper (angle-of-contact method); TAPPI suggested method T 458 sm-42. diag Paper Tr J 115:31-2 S 3 '42

Testing basis weight and thickness of paper; methods of testing of American society for testing materials. Mod Packaging 15:71-2, 74 Je '42

Testing folding endurance of paper; standards of the American society for testing materials. Mod Packaging 15:54, 56+ Jl '42

Testing printability of paper with ink; use of an engravers proofpress. F. A. Weymouth. bibliog Paper Tr J 114:37-40 Ap 9 '42

Testing properties of paper; conditioning paperboard, fiberboard and paperboard containers for testing; compression testing. il Mod Packaging 15:60, 62+ F '42

Turpentine test for grease resistance of paper; TAPPI tentative standard T 454 m-42. Paper Tr J 114:33 Ap 16 '42

Two-sidedness of colored paper. O. Kress and E. J. Loutzenheiser, jr. bibliog Paper Tr J 114:37-40 Mr 12 '42

Wax test for surface strength of paper; TAPPI tentative standard T 459 m-42. Paper Tr J 115:30 O 22 '42

Wire and felt sides of paper; revision of TAPPI suggested method T 455 sm-42. Paper Tr J 115:29 S 10 '42

PAPER—Testing—*Continued*

Wire and felt sides of paper; TAPPI suggested method T 455 sm-42. Paper Tr J 114:45 My 14 '42

See also

Paper—Strength

Paper, Insulating—Testing

Paper board—Testing

Paper research

Bibliography

Physical testing of paper, 1940-1941. B. W. Scribner. Paper Tr J 114:137 F 19 '42

Some developments in pulp and paper testing during the twelve months ending September 1, 1941. Pulp & Pa of Can (Convention no) 43:174, 199-201 [F] '42

Transportation

Transportation in the pulp and paper industry. C. R. Hillyer. il Paper Ind 24:41-2, 54 Ap '42

Water resistance

Surface wettability of paper (angle-of-contact method); TAPPI suggested method T 458 sm-42. diag Paper Tr J 115:31-2 S 3 '42

See also

Paper, Waterproof

Paper board—Water resistance

PAPER, Bogus. See Bogus paper

PAPER, Coated

Labels with built-in brilliance; new coated paper. il Mod Packaging 15:52-3 Je '42

Opacity variability as a measure of coated raw stock performance. F. H. Frost and C. Russell. diags Paper Tr J 114:41-2 Ja 8 '42

See also

Paper coating

PAPER, Crepe. See Crepe paper

PAPER, Decorative

Fancy box papers, their future. W. S. Fowler. il Mod Packaging 15:43-5 D '41

PAPER, Drawing. See Drawing paper

PAPER, Effect of temperature on

Frost, its influence on pulp and paper; abstract. W. Brecht and A. Prydz. Paper Ind 24:776 O '42

PAPER, Filter. See Filter paper

PAPER, Government

Asks bids for 93,650,000 pounds of paper. Paper Tr J 114:7, 22 My 14 '42

Award contracts for government paper. Paper Tr J 114:10, 12+ Mr 12 '42

Bids are submitted by nearly 70 firms; bids are for six months period. Paper Tr J 114: 9, 18, 21-4, 26, 28 My 28 '42

Government bids and awards for papers. Paper Tr J 113:13-14 D 18 '41

Joint Congressional printing committee asks bids for 115,545,000 pounds of paper. Paper Tr J 115:7+ O 29 '42

Joint printing committee awards contracts. Paper Tr J 114:10, 13 Je 11 '42

Joint printing committee open paper bids. Paper Tr J 114:7, 22-8 Mr 5 '42

Joint printing committee reduces call for paper to three months. Paper Tr J 113:7+ N 20 '41

Printing committee makes paper awards. Paper Tr J 113:21-2, 24-5 D 11 '41

U.S. paper bids open at higher level. Paper Tr J 113:79-84+ N 27 '41

PAPER, Greaseproof

Measurement of greaseproofness. E. A. Georgi and P. Nolan. il diags Paper Tr J 115:33-40 S 10 '42; Excerpts. Paper Ind 24:430, 432 Jl '42

Processing paper with colloids. H. S. Scherbak. Paper Ind 24:605 S '42

Turpentine test for grease resistance of paper; TAPPI tentative standard T 454 m-42. Paper Tr J 114:33 Ap 16 '42

PAPER, Gummed

Adhesive strength of gummed paper sealing tape. Franklin Inst J 233:71-2 Ja '42

PAPER, Insulating

Emergency overloads for oil-insulated transformers. F. J. Vogel and T. K. Sloat. Elec Eng 61:Trans 669-73 S '42

Factors affecting the mechanical deterioration of cellulose insulation. F. M. Clark. bibliog il Elec Eng 61:Trans 742-9 O '42

Paper dielectrics containing chlorinated impregnants; deterioration in d.c. fields. D. A. McLean and others. bibliog il Ind & Eng Chem 34:101-9 Ja '42

Paper-insulated power cables. E. A. Beavis. diags Electrician 127:277-8, 293-4 N 14-21 '41

Stability of impregnated-paper insulation. J. B. Whitehead. Elec Eng 61:554-5 N '42

Transformer insulation; electrical and mechanical characterstics for oil immersion. C. H. Pike. bibliog il Elec R (Lond) 131: 141-4 Jl 31 '42

Testing

Dielectric strength and life of impregnated-paper insulation; further experiments on influence of the density of the paper. J. B. Whitehead. Elec Eng 61:Trans 618-22 Ag '42

Temperature and electric stress in impregnated-paper insulation. J. B. Whitehead and W. H. MacWilliams, jr. bibliog Elec Eng 61:Trans 10-13 Ja '42

PAPER, Laminated

Flexible material to replace cans; Renlflex, comprised of several plies of paper, foil and protective films. il Mod Packaging 15: 52 My '42

Priority-free pipe; resin-treated laminated paper products; Fedralite. H. W. Richter. il Mod Plastics 20:48-9 S '42

PAPER, Newsprint. See Newsprint paper

PAPER, Photographic. See Photographic paper

PAPER, Probability. See Probability paper

PAPER, Recording

Recording paper for field and general use. A. G. Tarrant. Engineering 154:54 Jl 17 '42

PAPER, Tracing. See Tracing paper

PAPER, Waste. See Waste paper

PAPER, Waterproof

Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42

OPM tests cheap box for lease-lend food; tight wrapper of treated kraft paper. il Food Ind 13:68 D '41

Processing paper with colloids. H. S. Scherbak. Paper Ind 24:605 S '42

Proposed specifications for waterproof curing paper. Concrete 50:8 Ag '42

PAPER, Waxed

Changeover from foil to a substitute material for packaging photographic films; abstract. A. H. Livingston. Mod Packaging 15:80 My '42

Paper concerns indicted for price fixing. Paper Tr J 114:14 Ja 15 '42

PAPER associations

Paper industry's annual conventions. Paper Ind 23:1208+ Mr '42

See also

National paper trade association

Technical association of the pulp and paper industry

PAPER bags

All-America package competition; award to Tropical agriculture co-operative assn.; potatoes packed in paper bags. il Mod Packaging 15:216-17 Ap '42

Kraft paper machine capacity characteristics; wrapping and bag paper. Paper Tr J 114:23-32 Ja 1 '42

Sewed closures for paper bags; cotton thread replaced by spun paper or by polyvinyl alcohol filaments. J. S. Simpson, G. R. Beebe, and A. W. Koon. Paper Tr J 114: 117-18 F 19 '42

Sweet potatoes in paper bags. Paper Tr J 115:16 S 24 '42

Prices

OPA prices on used paper bags. Paper Tr J 114:9 Ap 9 '42

PAPER board

Box makers meet board manufacturers; conference, Toronto, Nov. 12. Pulp & Pa of Can 42:766-9 D '41
Effect of mill operations on the number of bacteria found in paper and paperboard products. J. R. Sanborn. Paper Tr J 115: 28-32 O 8 '42
Fibre casings for plastic trims. il Mod Packaging 15:58 Je '42
Folding carton and fiberboard substitutes for metal containers. J. D. Malcolmson. Paper Tr J 115:21-2 O 8 '42
Kraft cheese co. saves million pounds of board. il Mod Packaging 15:50-1 My '42
Our goal for 1942; a million pounds of cardboard saved; Goodrich went to work on package styles, eliminated unnecessary carton sizes and models. L. Hostetler. il Factory Management 100:90-1+ My '42
Paperboard defects and some remedies. P. Drewsen. Paper Tr J 114:37-9 Mr 26 '42; Same. Pulp & Pa of Can 43:438-40 My '42
Some common paperboard defects. P. Drewsen. Paper Ind 23:893-5 D '41
Weatherproof cases. il Mod Packaging 16: 37-41+ O '42

See also
Paper boxes
Pressboard
Wall board

Manufacture

Fiberizing of kraft screenings for paper and paperboard furnishes. C. K. Textor. il Paper Tr J 114:42-5 My 7 '42
Gluten meal in paper making. C. W. Stewart. Chem Age (Lond) 45:212 O 18 '41
Hydrogen ion control system on cylinder machines. G. Sutton. Paper Tr J 115:39-40 Jl 2 '42; Same. Paper Ind 24:758-9 O '42
Interim report, stock preparation subcommittee of Canadian pulp and paper association. il Pulp & Pa of Can (Convention no) 43:158-62 [F] '42
Lethal effect of drier rolls upon bacteria. J. W. Appling and B. F. Shema. bibliog il Paper Tr J 114:40-4 Mr 26 '42
Replacements for latex in fiber products manufacture. R. T. Nazzaro. India Rubber W 106:345-6+ Jl '42
Starches in paper and paperboard manufacture. J. P. Casey. Paper Tr J 114:107-12, 114, 116-17 F 19 '42
Use of urea-formaldehyde resin for waterproofing starch used in corrugated and solid fiberboard production. P. B. Taft. bibliog Paper Tr J 115:30-2 O 15 '42
Wastepaper. A. B. Dickerman. Harvard Business R 20 no 4:446-58 [Jl] '42

See also
Paper board mills

Strength

Relation of lignin content to the strength of paper and paperboards. W. F. Fowler, jr. and W. M. Harlow. il Paper Tr J 114:29-30 Ap 2 '42
Relation of lignin content to the strength of paper and paperboards; pulpsheets and boards prepared from groundwood delignified by chlorine dioxide, sulphate, and soda processes. E. C. Jahn and C. V. Holmberg. bibliog Paper Tr J 114:33-8 Ap 23 '42

Testing

Application of the electron microscope to problems of the pulp, paper, and paperboard industry. G. R. Sears and E. A. Kregel. bibliog il diags Paper Tr J 114:43-9 Mr 19 '42; Same cond. Paper Ind 24:764+ O '42
Ply-bonding-strength test for paper and paperboard. J. F. Halladay and A. T. Luey. il diag Paper Tr J 114:35-8 F 5 '42
Stretch of paper and paperboard; TAPPI tentative standard T 457 m-42. Paper Tr J 115: 39-40 Ag 13 '42
Testing properties of paper. il Mod Packaging 15:60, 62+ F '42

Water resistance

Use of urea-formaldehyde resin for waterproofing starch used in corrugated and solid fiberboard production. P. B. Taft. bibliog Paper Tr J 115:30-2 O 15 '42

PAPER board, Corrugated

All-America package competition; award to Shelbyville desk co.; corrugated shipping container. il Mod Packaging 15:214-15 Ap '42
All-America package competition; award to Stinson aircraft division of Vultee aircraft, inc.; shipping container for airplane rudders. il Mod Packaging 15:218-19 Ap '42
Corrugated apple boxes. Pulp & Pa of Can 43:797 S '42; Same. Paper Tr J 115:21 S 24 '42
Corrugated engineering. il Mod Packaging 15:56-7 Je '42
How to ship more economically in corrugated boxes. il Steel 111:88-9, 91 N 2; 110+ N 9 '42
Some common paperboard defects. P. Drewsen. Paper Ind 23:893-5 D '41
Use of urea-formaldehyde resin for waterproofing starch used in corrugated and solid fiberboard production. P. B. Taft. bibliog Paper Tr J 115:30-2 O 15 '42

PAPER board industry

Containers; abstract. W. P. Paepcke. Chem Ind 50:645-6 My '42
Paper error; war planning overestimated military needs. Business Week p53-4+ S 19 '42
Prepackaged war; Container corp. will make more paper boxes than ever in its history. il Fortune 24:86-9+ D '41
Wastepaper. A. B. Dickerman. Harvard Business R 20 no 4:446-58 [Jl] '42

See also
Paper box industry

Statistics

Paper and paperboard production and papermaking machines in 1940. Paper Tr J 113: 14+ D 25 '41
Paper board production of 8,000,000 tons shows 27 per cent increase in year. G. Whiting. Paper Tr J 114:56, 58+ F 19 '42

Canada

Box makers meet board manufacturers; conference, Toronto, Nov. 12. Pulp & Pa of Can 42:766-9 D '41

PAPER board mills

Electric equipment

Wet end drives for board machines. Pulp & Pa of Can (Convention no) 43:236+ [F] '42

Equipment

Board mill laboratory. E. F. Boyle. il Paper Ind 24:52-3 Ap '42
Interim report, stock preparation subcommittee of Canadian pulp and paper association. il Pulp & Pa of Can (Convention no) 43:158-62 [F] '42
Maintenance of control instruments in the pulp, paper, and paperboard industry. H. O. Ehrisman. Paper Tr J 114:92-3 Je 25 '42; Same. Paper Ind 24:426 Jl '42

PAPER box industry

Meeting the shipping container shortage; conservation, substitution, reclamation. 46p Am. management assn, New York '41
Prepackaged war; Container corp. will make more paper boxes than ever in its history. il Fortune 24:86-9+ D '41

Canada

Box makers meet board manufacturers; conference, Toronto, Nov. 12. Pulp & Pa of Can 42:766-9 D '41
Conservation vs cancellation; more boxes must be made. C. V. Hodder. Pulp & Pa of Can 43:747-9+ S '42
Where do we go from here? C. V. Hodder. Pulp & Pa of Can 43:466-7 My '42

PAPER boxes

All-America package competition; awards to Dayton rubber mfg. co., Marsh wall products, inc. and Atlas underwear co. il Mod Packaging 15:172-3+, 174-5+, 194-5+ Ap '42

Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42

Cocoa in paper; Hershey new wartime paperboard container. il Mod Packaging 16:60 O '42

Drastic reductions in package styles display merchandise more effectively; Carson, Pirie, Scott & company. C. K. Royce. Ind Stand 13:127-9 My '42

Fancy box papers, their future. W. S. Fowler. il Mod Packaging 15:43-5 D '41

Fibre box specifications revised by railroads. Oil Paint & Drug Rep 140:3 N 24 '41

Good boxes with 16 per cent less board. il Mod Packaging 15:64 Mr '42

How to ship more economically in corrugated boxes. il Steel 111:88-9, 91 N 2; 110+ N 9 '42

How to stack and load corrugated shipping boxes. diags Steel 111:81+ O 19 '42

Our goal for 1942: a million pounds of cardboard saved; Goodrich went to work on package styles, eliminated unnecessary carton sizes and models. L. Hostetler. il Factory Management 100:90-1+ My '42

Paper boxes for ointments. il Mod Packaging 16:39 N '42

Safeguard handling in corrugated boxes by proper sealing. il Steel 111:88+ O 12 '42

Saving in materials results from new standard box design. H. F. Loughlin. Ind Stand 13:129-30 My '42

Manufacture

Ace carton corporation builds windowless plant with year-round air conditioning system. H. B. Reinhardt, jr. il diag Heat & Ven 39:34-9 Jl '42

All-America package competition; award to Miller cereal mills, inc. il Mod Packaging 15:222-3+ Ap '42

Box makers meet board manufacturers; conference, Toronto, Nov. 12. Pulp & Pa of Can 42:766-9 D '41

PAPER chemicals

Alum substitutes. H. E. Duston. Paper Ind 24:307-9 Je '42

Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42

Maintenance and conservation forum; conservation of chemicals. Paper Ind 24:618+ S '42

New resin for paper making from melamine. Paper Tr J 115:14 S 10 '42

Non-fibrous materials situation. W. H. Birchard. Pulp & Pa of Can 43:644+ Jl '42

Nonfibrous raw materials report, 1941. E. N. Poor. Paper Tr J 114:34-40 Ap 2 '42

Papermaking chemical consumption in 1941 reaches all-time record. Paper Tr J 114:64, 66 F 19 '42

Suggested program for the conservation of critical materials. Paper Tr J 114:95-8 F 19 '42

Wetting-out agents. C. B. Kinney. Paper Ind 24:50-1 Ap '42

PAPER coating

Advantages of sulphonated tall oil in manufacturing coated paper. E. Getty. Paper Tr J 114:130, 132 F 19 '42

Electric heat aids in applying hot-melt; for applying thermoplastic solution (cellulose acetate) to paper. il Elec W 117:510 F 7 '42

Evaluation of methocel as a pigment adhesive for paper coatings. R. M. Upright, M. Kin and F. C. Peterson. bibliog Paper Tr J 114:36-40 Ja 8 '42

New adhesive for paper clay coatings; Mazein. C. W. Stewart. Pulp & Pa of Can 43:333 Mr '42; Same. Chem Age (Lond) 46:261 My 23 '42

Soybean protein; adhesive strength and color. A. K. Smith and H. J. Max. bibliog Ind & Eng Chem 34:817-20 Jl '42

Starch evaluation by a new viscosity method. C. A. Briggs and J. L. McCarthy. Paper Tr J 114:37-40 Ja 22 '42

Starches in paper and paperboard manufacture. J. P. Casey. Paper Tr J 114:107-12, 114, 116-17 F 19 '42

Structural viscosity studies of coating clay compositions; abstract. G. H. Sheets. il diag Paper Ind 24:182+ My '42

PAPER containers

Can company is developing new fiber container produced on metal container machines. Paper Tr J 115:13 Jl 23 '42

Cartoon cartons for soap. il Mod Packaging 16:56-7+ S '42

Chemical industries as potential users of paper containers. R. W. Lahey. Paper Ind 24:440+ Jl '42

Contact angle, its role in paper sizing. R. M. K. Cobb. bibliog il Paper Ind 24:598-9 S '42

Container for army use made without metal. Oil Paint & Drug Rep 142:3+ Ag 31 '42

Effect of mill operations on the number of bacteria found in paper and paperboard products. J. R. Sanborn. Paper Tr J 115:28-32 O 8 '42

Folding carton and fiberboard substitutes for metal containers. J. D. Malcolmson. Paper Tr J 115:21-2 O 8 '42

Ink in paper. il Mod Packaging 15:54 Je '42

Military ration container problems. R. R. Melson. Paper Tr J 115:36-8 O 29 '42

Miracles of paper. il Mod Packaging 16:34-8+ N '42

New paper can may be substitute for tin. Paper Tr J 114:8 Je 18 '42

One less bottleneck; paper milk bottles as safety measure. il Safety Eng 84:8-9 Ag '42

Out of tin into paper. il Mod Packaging 15:58-9+ Ag '42

Packaging of dehydrated foods. C. Watson, 3d. Paper Tr J 115:46+ O 1 '42

Paint in paper cans. il Chem Ind 51:103 Jl '42; Same. Metal Finishing 40:513 S '42

Paper cup picnic; steadily increased demand. il Business Week p28+ O 31 '42

Paper lipsticks and compacts. il Mod Packaging 15:56-7 My '42

Sam Dean tackled the toughest job in merchandising; distributing fresh milk in paper containers through retail stores. F. C. Minaker. il Am Business 11:26-8 D '41

Wartime packaging exhibit; list of exhibitors. Paper Tr J 115:42, 44+ O 1 '42

Weatherproof cases. il Mod Packaging 16:37-41+ O '42

See also

Paper bags

Paper boxes

Testing

Testing properties of paper. il Mod Packaging 15:60, 62+ F '42

PAPER cups

Paper cup picnic; steadily increased demand. il Business Week p28+ O 31 '42

PAPER cutting machines

Labor problem in cutting sheets. Paper Tr J 115:35 Jl 9 '42

PAPER drying

Drying rate for kraft paper. A. E. Montgomery. bibliog Paper Tr J 114:41-4 My 28 '42; Abstract. Paper Ind 24:434+ Jl '42

Function of a Yankee drier on a paper machine. K. Wandel. diags Paper Tr J 114:35-40 Ja 15 '42

Lethal effect of drier rolls upon bacteria. J. W. Appling and B. F. Shema. bibliog il Paper Tr J 114:40-4 Mr 26 '42

Radiant heat and its application. J. D. Hall. diags Paper Tr J 114:35-9 Mr 5 '42

Steam gauge as an index of drying conditions. W. G. MacNaughton. bibliog Paper Ind 23:793-6 N '41

Steam saved by better water removal at the presses. W. G. MacNaughton. diags Paper Tr J 115:33-40 Ag 27 '42; Excerpts. Paper Ind 24:540-1 Ag '42

PAPER finishing

Calendering. W. T. Bennett. Pulp & Pa of Can (Convention no) 43:172-4 [F] '42

Many improvements in finishing equipment; forty years of progress. C. N. Candee. Pulp & Pa of Can 43:603-4 Jl '42

See also

Paper coating

Paper sizing

PAPER handling

Electric hoists, dry end paper machines. diags Pulp & Pa of Can (Convention no) 43:113-14 [F] '42

Roll lowering device. diag Pulp & Pa of Can (Convention no) 43:114-15 [F] '42

PAPER hanging

Home repair and maintenance; wallpaper. Consumers' Research Bul 9:14+ Ja '42

PAPER industry and trade

American pulp and paper mill superintendents association 23d annual convention, Grand Rapids, June 16-18. Paper Ind 24:376+ Jl '42

Displays made of paper open a new market for Marquardt & co.; Ugo Mochi, creator. il Sales Management 51:22-3 O 20 '42

Essential uses of paper in wartime. N. A. McKenna. Pulp & Pa of Can 43:357-8+ Ap '42

Facts about the availability of printing paper. Adv & Sell 35:34-5 My '42; Same. Sales Management 50:12-13 My 1 '42

How Eaton Paper trains dealers' inexperienced sales personnel. Sales Management 51:24 O 1 '42

How paper shortage gossip proved to be a boomerang. F. H. Branham. Inland Ptr 109:21-4 Jl '42

News by commodities. Published in Foreign commerce weekly

No shortage of paper. R. J. Cullen. Paper Tr J 114:7, 13-14 My 21 '42

Paper enigma. Business Week p30-2 O 10 '42

Paper merchants concerned at wage costs; meeting in Chicago. Paper Tr J 114:21 My 14 '42

Pipes, pumps, packing, and valves in the pulp and paper industry. V. F. Waters. flow charts il Paper Tr J 113:89-90+ N 27 '41

Plight of paper. il diag maps Mod Packaging 15:23-38 Jl '42

Report paints much brighter picture of paper situation; S. D. Warren company bulletin. Inland Ptr 108:24-5 D '41

Rumor of paper shortage false; tell customers! Inland Ptr 109:40-1 My '42

U.S. and Canadian unification is expected; plan would coordinate all newsprint mills on continental basis. Paper Tr J 115:9 O 29 '42

U.S., Canada restrict production of paper. Comm & Fin Chr 156:1716 N 12 '42

See also

Newsprint paper

Paper board industry

Paper box industry

Paper mills

Advertising

Fifteen-year-old letter program; gadget letters of Fulton-Wassell paper company, Little Rock, Arkansas. L. P. Bott, jr. il Am Business 12:12-13+ Ag '42

Paper firms exhibit wartime ideas. il Inland Ptr 109:36 Ag '42

Advertising service

Clepaco promotional service. Paper Tr J 114:17 Ja 8 '42

Dictionaries

Paper trade terms. W. B. Wheelwright, comp. 47p 50c Callaway associates, Boston '41

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:24 D '41

Earnings of Canadian paper mills uneven. Paper Tr J 113:12 D 4 '41

SEC issues reports 20 and 21 on more listed corporations. Comm & Fin Chr 156:376 Jl 30 '42

See also

Brown company (Maine)

History

Viewpoint of the eighteen seventies; from early issues of Paper trade journal. Paper Tr J 114:27-34 My 21 '42

Regulation

Control of paper industry is announced by U.S. and Canadian governments. Paper Tr J 115:7+ N 5 '42

Government announces pulp allocations. Paper Tr J 114:9 Ja 29 '42

How output limitations may affect paper companies. Barron's 22:13 N 9 '42

Newton paper co. gets desist order; Federal trade commission suit against bogus paper makers. Paper Tr J 113:23 D 25 '41

Rationed chlorine; latest order on pulp, paper, and paper board. Business Week p33-4 N 29 '41

Review of paper controls of two World wars. A. N. Wecksler. Paper Ind 23:1198-9+ Mr '42

WPB closes three Puget Sound pulp mills; prohibits shipments from Pacific coast to East except types used for explosives and rayon. Paper Tr J 115:13 O 29 '42

WPB explains its paper and pulp policies. Paper Tr J 114:7+ Ap 30 '42

Salesmen

Personality in sales. A. Secord. Paper Ind 23:1124+ F '42

Sales slack? lay out a new sales program; Strathmore paper company. C. Norton. Ptr Ink 200:15-16 Ag 21 '42

Salesmen's association of the paper industry; annual meeting, New York. Paper Ind 23:1234+ Mr '42

Securities

Boom business for paper makers. L. T. Stevenson. Barron's 21:9 D 15 '41

New outlook for the paper industry. J. C. Harrington. il Mag of Wall St 71:22-3+ O 17 '42

Statistics

Canadian pulp and paper industry stages a remarkable recovery in 1941. C. L. Sibley. Paper Tr J 114:68, 70, 72-4 F 19 '42

Imports of paper and paper making stock. Published in weekly numbers of Paper trade journal

Paper and paperboard production and papermaking machines in 1940. Paper Tr J 113:14+ D 25 '41

Paper breaks all previous records in 1941. M. C. Dobrow. Paper Tr J 114:35-8 F 19 '42

Paper industry shows stability and steady expansion in century of progress. Paper Tr J 114:62+ F 19 '42

Paper mills set new records. Pulp & Pa of Can 42:707-13 N '41

Production, consumption and employment in the paper industry, then and now; statistical summary, 1872-1942. Paper Tr J 114:24-6 My 21 '42

Pulp and paper industry broke all records. Pulp & Pa of Can 43:809-13 O '42

See also

Newsprint paper—Statistics

Brazil

Paper industry in Brazil is active. C. E. Nabuco de Araujo, jr. Chem & Eng N 20:1246 O 10 '42

Canada

Canada denies shortage in certain papers. Paper Tr J 115:10 Ag 20 '42

Canada will allocate newsprint orders. Paper Tr J 115:7, 17 S 10 '42

Canadian government aids pulp industry. Paper Tr J 114:8-9 Ja 1 '42

PAPER industry and trade—Canada—*Cont.*

Canadian mills start to curtail output. Paper Tr J 115:7+ O 22 '42

Canadian paper and pulp exports at peak. Paper Tr J 114:10 Ja 8 '42

Canadian public asked to use less paper; joint advertising campaign of paper and pulp manufacturers. Paper Tr J 113:11 D 18 '41

Canadian pulp and paper industry stages a remarkable recovery in 1941. C. L. Sibley. Paper Tr J 114:68, 70, 72-4 F 19 '42

Earnings of Canadian paper mills uneven. Paper Tr J 113:12 D 4 '41

Enigma of Abitibi. G. Agassiz. Pulp & Pa of Can 43:495-500, 535-8 Je '42

Fair treatment of newsprint mills assured. Paper Tr J 115:7, 16 S 24 '42

Further restriction of chlorine consumption. Pulp & Pa of Can 42:785-6 D '41

Immediate response to appeal of control board; industry acts promptly to conserve supplies. Pulp & Pa of Can 42:812+ D '41

Important accomplishments of the industry; the twenty-ninth annual report on behalf of executive committee. F. G. Robinson. Pulp & Pa of Can (Convention no) 43:66-70 [F] '42

Less newsprint to be available next year; orders issued by power controller and selective service head in Canada. Paper Tr J 115:11 O 29 '42

Neighbours built an industry; International co-operation in development of Canadian newsprint industry. J. N. Stephenson. il Pulp & Pa of Can 42:714-19 N '41; Same cond. Tech R 43:161-3+ F '41

Newsprint pool; need for power and for labor in war industry causes Canada to weigh concentration and over-all limit at 75%. Business Week p48+ S 5 '42

No Canadian newsprint shortage foreseen. Paper Tr J 114:9 Mr 12 '42

OPA $50 newsprint price disappoints Canadian mills. Paper Tr J 114:7+ Ap 2 '42

Paper industry advised to modernize mills. Paper Tr J 114:7+ Mr 12 '42

Paper mills set new records. Pulp & Pa of Can 42:707-13 N '41

Paper situation. A. P. Jewett. Pulp & Pa of Can 43:469-70 My '42

Pulp and paper during 1941. G. G. Archibald. Pulp & Pa of Can 43:3-4+ Ja '42

Pulp and paper industry broke all records. Pulp & Pa of Can 43:809-13 O '42

Pulp and paper industry, 1938-1939. E. T. Sills and L. J. Pouliot. 110p pa 50c Canada. Dominion bur. of statistics, Ottawa '41

Role of the Newsprint association of Canada. P. Kellogg. Pulp & Pa of Can (Convention no) 43:70-1 [F] '42

Situation in Canada satisfactory. For Comm W 7:32 Je 6 '42

Specialty papers now being turned out by the Canadian newsprint industry. For Comm W 5:31 N 22 '41

Speculation on concentration of newsprint; Premier Hepburn talks to protesting delegation. Paper Tr J 115:9 S 10 '42

Speculation on effect of newsprint cut. Paper Tr J 115:10 O 22 '42

Systematic control for newsprint mills. Pulp & Pa of Can 43:745-6 S '42

See also Canadian pulp and paper association

Great Britain

Aspects of war time paper making in Great Britain. C. Delderfield and J. Grant. Paper Tr J 115:27-30 O 22 '42

Paper shortage in Britain. For Comm W 7:24-5 My 16 '42

Straw for fine papermaking in England. Pulp & Pa of Can 42:774-5 D '41

WPB studies concentration plans; concentration of papermaking in Britain. T. J. McBreen. Paper Ind 24:697-8 O '42

Ireland

Paper and related products; Irish industry. For Comm W 8:31 Jl 18 '42

Newfoundland

Paper industry in Newfoundland. map Paper Ind 24:576 S '42

Southern states

New wealth in South's pulp and paper. J. H. Allen. il Manuf Rec 110:32-3+ N '41

Sweden

Sweden's production figures, 1939 and 1940. For Comm W 8:30-1 Ag 1 '42

United States

Broad view of the situation. E. W. Tinker. Pulp & Pa of Can 43:299-300 Mr '42

Business as usual, but more of it. W. Gates. il Mag of Wall St 70:238-9+ Je 13 '42

Importance of paper in our national life. J. L. Riegel. Paper Tr J 114:48, 50, 53 Je 25 '42

Kraft paper output sets new high record and increases 16 per cent in year. E. R. Gay. Paper Tr J 114:53-4 F 19 '42

On paper: 1942; shortage won't be pulp maker's fault. Business Week p54+ F 28 '42

Opportunities and services of the paper industry. R. A. Hayward. Paper Tr J 115:29-31 O 29 '42

Paper fits itself into war program. Paper Tr J 114:16 Ap 16 '42

Paper industry must consume less chlorine. Paper Tr J 113:8-10 N 20 '41

Paper industry problems taken to priorities clinic. J. A. Bonwit. Paper Ind 23:753-4, 756+ N '41

Paper situation; a synopsis. W. L. Neubrech. For Comm W 7:36 Je 27 '42

Priorities regulation no. 10; chart explanation. E. G. Amos. Paper Tr J 115:9, 12-13 Ag 6 '42

Pulp and paper industry in the United States under priority controls. J. F. Darrow. Paper Tr J 114:133-4, 136 F 19 '42

Recent customs decisions. Paper Tr J 114:149 F 19 '42

Status of paper industry explained; abstract. E. W. Tinker. Paper Tr J 115:9 S 24 '42

WPB issues information on priorities. Paper Tr J 114:7+ Je 18 '42

WPB studies concentration plans. T. J. McBreen. Paper Ind 24:697-700 O '42

What paper curtailment may mean. Barron's 22:12 O 19 '42

PAPER laboratories

Better laboratory and testing apparatus; forty years of progress. H. O. Keay. Pulp & Pa of Can 43:606-7 Jl '42

Board mill laboratory. E. F. Boyle. il Paper Ind 24:52-3 Ap '42

Certified pulp testers. Pulp & Pa of Can 43:694+ Ag '42

Use of the analytical balance. D. Roberts. il Pulp & Pa of Can 43:261-2 F '42

PAPER libraries

Role of the technical librarian in the paper industry. A. C. Davies. bibliog Paper Tr J 115:32-6 O 29 '42

PAPER making

Abridgement of papers at TAPPI annual meeting, New York, Feb. 16-19. Paper Ind 23:1260+; 24:74+, 180+, 306-17, 430, 432+, 534-41, 636-8+, 762-4+, 974-9 Mr-O, D '42

Abridgement of papers at TAPPI fall meeting, Boston, Sept. 29-Oct. 1. Paper Ind 24:742+, 870-80, 968+ O-D '42

Abstracts of technical papers at TAPPI meeting. Pulp & Pa of Can 43:311-14, 371-80+, 447-8 Mr-My '42

Electricity in paper mills. W. J. Mason and S. A. G. Emms. diags Mech Handling 28:262-3 D '41

Fine papers and the war effort. B. L. Kassing. Paper Tr J 114:88-9 Je 25 '42

Forty years of progress. Pulp & Pa of Can 43:574-622 Jl '42

Hydrogen ion control system on cylinder machines. G. Sutton. Paper Tr J 115:39-40 Jl 2 '42; Same. Paper Ind 24:758-9 O '42

Influence of certain variables in forming brightness handsheets. C. M. Koon and D. D. Niemeyer. Paper Tr J 114:30-3 Ja 29 '42

PAPER making—*Continued*

Maintenance of clean paper. F. K. Becker. Paper Tr J 115:30-2 Jl 9 '42

Maintenance pulping equipment; compiled by Maintenance of pulping equipment committee. Paper Ind 24:419-20 Jl '42

Measurement and influence of fiber length. J. d'A. Clark. Paper Ind 24:637-8+ S '42

Modern pulp and paper making; a practical treatise. G. S. Witham. 2d ed 705p $6.75 Reinhold pub. corp. '42

Paper revolution; deciduous trees are made available by semichemical process. Business Week p69-70 My 16 '42

Pipes, pumps, packing, and valves in the pulp and paper industry; with chart showing flow of fluids and materials in pulp and paper processes. V. F. Waters. il diag Paper Tr J 113:89-90+ N 27 '41

Remember? reminiscing on progress in fine paper manufacturing. K. Crabtree. Pulp & Pa of Can 43:746-7 S '42

Silicates of soda in pulp bleaching and other paper mill uses. C. H. Jeglum. il Paper Ind 24:150-1 My '42

Starches in paper and paperboard manufacture. J. P. Casey. Paper Tr J 114:107-12, 114, 116-17 F 19 '42

Stock preparation system. F. S. MacDonald. il diags Pulp & Pa of Can (Convention no) 43: 81-8, 93 [F] '42

Studies in classification and refining of groundwood pulp. J. D. Brown. bibliog il Pulp & Pa of Can (Convention no) 43:131-40 [F] '42

Synthetic resin emulsions for paper saturation and sizing; used as extenders for rubber latex and reclaim. R. T. Nazzaro. Paper Tr J 115:29-32 N 5 '42

Technical association of the pulp and paper industry, fall meeting, Boston, Sept. 29-Oct. 1. Paper Tr J 115:35-8, 40, 42+ O 1 '42; Paper Ind 24:713-14+ O '42

Trouble on the paper machine; defective paper. A. McCaffey. Paper Ind 23:899-900+ D '41

Two-sidedness of colored paper. O. Kress and E. J. Loutzenheiser, jr. bibliog Paper Tr J 114:37-40 Mr 12 '42

Useful engineering devices, presented by the Ottawa sub committee of the engineering committee, Canadian pulp and paper association. diags Pulp & Pa of Can (Convention no) 43:109-17 [F] '42

Waste paper and the paper mills. Engineer 173:246 Mr 20 '42

See also

Cellulose
Digesters (paper making)
Paper board
Paper chemicals
Paper drying
Paper making machinery
Paper making materials
Paper mills
Paper research
Paper sizing
Sulfite liquor
Wood pulp

Bacteria control

Amazing new germ killer; Perm-aseptic. il Mod Packaging 15:286, 288, 290+ Ap '42

Effect of mill operations on the number of bacteria found in paper and paperboard products. J. R. Sanborn. Paper Tr J 115: 28-32 O 8 '42

Lethal effect of drier rolls upon bacteria. J. W. Appling and B. F. Shema. bibliog il Paper Tr J 114:40-4 Mr 26 '42

Beating

Cotton pulps; effects of supplementary materials on beating. D. M. Musser and H. C. Engel. bibliog Paper Tr J 115:33-5 Ag 20 '42

Cotton pulps; modification by oxidizing and hydrolyzing agents. D. M. Musser and H. C. Engel. bibliog Paper Tr J 114:29-31 Ap 9 '42

Experimental study of beater practice in the manufacture of offset papers. C. G. Weber and others. bibliog J Research Nat Bur Stand 28:241-64 Mr '42

New stock preparing equipment; forty years of progress. L. F. Winchell. Pulp & Pa of Can 43:594-5 Jl '42

Bibliography

Bibliography of nomographs of pulp and paper applications. R. Myllynen and D. S. Davis. Paper Ind 23:1089+ F '42

Bibliography of papermaking and U.S. patents for 1941. C. J. West, comp. 203p $3 Technical association of the pulp and paper industry, New York '42

Index, Technical section, Paper trade journal, volume 113, July to December, 1941. C. J. West, comp. Paper Tr J 114:41-5 Ja 22 '42

Papermaker's bookshelf. C. J. West. Paper Ind 23:1085-9 F '42

Bleaching

Bleach for paper; process devised by Philadelphia quartz co. chemist. Business Week p58-9 F 21 '42

Bleach requirement of pulp; TAPPI tentative standard T 219 m-42. Paper Tr J 115: 35-6 Jl 16 '42

Bleaching gumwood sulphate pulp. J. D. Rue and S. C. Nagel. Paper Tr J 115:29-34 Ag 6 '42

Bleaching of sulphate pulp. F. Loeschbrandt. 71p bibliog pa $1 Technical assn. of pulp and paper industry, New York '41

Bleaching with less chlorine. il Pulp & Pa of Can 43:788 S '42

Cellulose from hardwoods; wood pulp purification; parallel treatments with softwood pulps. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41

Chlorine situation. Pulp & Pa of Can 43:541 Je '42

Conservation of chlorine. Pulp & Pa of Can 43:765-6 S '42

Mechanical developments in pulp bleaching. E. V. Ullman. il diags Pulp & Pa of Can (Convention no) 43:118-28 [F] '42

Methods of reducing chlorine consumption. T. W. Toovey. Paper Tr J 114:23-6 F 12 '42; Same. Pulp & Pa of Can 43:896-8+ N '42

Multistage bleaching of kraft. S. D. Wells and F. B. Schelhorn. Paper Ind 24:314-16 Je '42

Nature of lignin residues in unbleached and partially bleached sulphite pulp. L. L. Larson. Paper Tr J 113:25-31 N 20 '41

Operating control of pulp bleaching. J. D. Rue. Paper Tr J 114:40-2 Ja 15 '42

Paper bleaching; chlorine conserved by change in process. Sci Am 166:251 My '42

Paper industry must consume less chlorine. Paper Tr J 113:8-10 N 20 '41

Planning a career in the paper industry; bleach plant. D. C. Yates. Pulp & Pa of Can 43:361-2 Ap '42

Preparation of bleaching solutions. R. P. Whitney. Paper Tr J 113:35-6 N 20 '41

Procedures and brightness grades in bleaching sulphate pulps. J. D. Rue and S. C. Nagel. Paper Tr J 114:26-33 Je 11 '42

Pulp bleaching; a literature review December, 1940 through December, 1941. J. L. Parsons and J. C. Tongren. bibliog (55 references) Paper Tr J 115:36-40 Ag 20 '42

Recent developments in pulp bleaching; forty years of progress. G. H. Tomlinson. Pulp & Pa of Can 43:591-2 Jl '42

Sequence in multistage bleaching of kraft. S. D. Wells and F. B. Schelhorn. bibliog diags Paper Tr J 115:35-8 Ag 13 '42; Same cond. Paper Ind 24:314-16 Je '42

Silicates of soda in pulp bleaching and other paper mill uses. C. H. Jeglum. il Paper Ind 24:150-1 My '42

Sodium chlorite in the bleaching of pulp; abstract. G. Jayme and S. Mo. Paper Ind 23:948 D '41

Some economies in chlorine consumption in bleaching chemical wood pulp. J. D. Rue and S. C. Nagel. Paper Tr J 114:23-6 Je 11 '42

Some observations on the problem of iron in bleaching wood pulp. E. L. Keller and F. A. Simmonds. bibliog Paper Tr J 115:98-104 O 1 '42

Study of pH factor in hypochlorite bleaching of wood pulp; two-stage treatment of sulphite pulp. F. Casciani and G. K. Storin. Paper Tr J 115:89-97 O 1 '42

PAPER making—*Continued*

By-products

Production and general characters of so-called liquid rosin (tallol). K. B. Edwards. Chem & Ind 61:233-5 My 23 '42; Abstract. Soap & San Chem 18:55-6 Ag '42

See also
Sulfite liquor

Chlorination

Mechanism of the chlorination of lignin. E. V. White and others. bibliog Paper Tr J 113:33-43 D 11 '41
Methods of reducing chlorine consumption. T. W. Toovey. Paper Tr J 114:23-6 F 12 '42
Some aspects of the chlorination of sulphite pulp. N. W. Coster and R. I. Thieme. bibliog diag Paper Tr J 114:31-5 Ja 8 '42

See also
Paper making—
Bleaching

Dirt problem

Some observations on the effect of wood stain on pulp cleanliness. L. J. Rioux and M. J. Barsalou. Pulp & Pa of Can (Convention no) 43:151-2 [F] '42

Fillers

Colloidal properties of aqueous dispersions of titanium dioxide. S. W. Martin. bibliog diags Paper Tr J 115:31-8 Jl 23 '42
Treatment of filler for newsprint; clarifloculator tank at Baie Comeau. C. Dobell. il diags Pulp & Pa of Can 43:727-8 Ag '42

Freeness testing

Colloidal and physical phenomena relating to freeness and stock drainage. R. W. Reed. bibliog diags Paper Tr J 114:23-9 Je 18 '42; Same cond. Paper Ind 23:1276+ Mr '42
Rapid determination of freeness. E. Cowan. diags Pulp & Pa of Can (Convention no) 43:145-6 [F] '42
Use of Canadian freeness testers. D. Roberts. Pulp & Pa of Can 43:23-4 Ja '42

History

Reminiscences of an old-timer. C. F. Logan. il Paper Ind 24:503-5 Ag '42

Patents

Bibliography of papermaking and U.S. patents for 1941. C. J. West, comp. 203p $3 Technical association of the pulp and paper industry, New York '42
Papermaking patents in the United States. J. Atkins, comp. Published in monthly numbers of Paper industry and paper world
Patents committee report, 1941-1942. C. W. Rivise. Paper Tr J 114:31-2 Ap 30 '42
United States patents on papermaking, fourth quarter, 1941. C. J. West, comp. Paper Tr J 114:31-3 F 5 '42
United States patents on papermaking, first quarter, 1942. C. J. West, comp. Paper Tr J 114:29-32 Je 18 '42
United States patents on papermaking, second quarter, 1942. C. J. West, comp. Paper Tr J 115:27-30 Jl 23 '42
United States patents on papermaking; third quarter, 1942. C. J. West, comp. Paper Tr J 115:31-4 O 22 '42

Screening

Screening equipment for pulpwood paper; forty years of progress. B. D. Millidge. Pulp & Pa of Can 43:592-3 Jl '42

Slime problem

Slime control in a modern newsprint mill. N. S. Grant. diags plans Pulp & Pa of Can (Convention no) 43:89-93 [F] '42

Soda process

Colored materials of alkaline cooking liquors. G. C. Kimble. bibliog Paper Tr J 115:37-46 Jl 16 '42
Electrometric titration in alkaline pulping. G. J. Crocker and others. bibliog diags Paper Tr J 115:33-40 N 5 '42
Pulping sweetgum by alkaline processes. M. W. Bray and J. S. Martin. il Paper Tr J 113:35-46 D 18 '41
Soda pulping of Canton fiber; abstract. M. P. Ramiro and P. A. Estrada. Paper Ind 24:320 Je '42
Waste liquor from bagasse soda pulp; abstract. K. Honda and Y. Nakamura. Paper Ind 24:222 My '42

Sulfate process

Analysis of sulphate black liquor; TAPPI tentative standard T 625 m-42. Paper Tr J 115:29-32 Ag 27 '42
Analysis of sulphate white and green liquors; TAPPI tentative standard T 624 m-42. Paper Tr J 115:30-2 S 10 '42
Beating characteristics of acetylated kraft pulp; abstract. C. Brown and H. A. Harrison. Paper Ind 23:838 N '41
Bleaching gumwood sulphate pulp. J. D. Rue and S. C. Nagel. Paper Tr J 115:29-34 Ag 6 '42
Calcium bicarbonate removal from water in sulphate mills. H. W. Frazer. diag Paper Tr J 114:31-4 Ap 2 '42
Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42
Chemical recovery in sulphate pulp mills; forty years of progress. A. G. Durgin and E. M. Davis. Pulp & Pa of Can 43:590+ Jl '42
Colored materials of alkaline cooking liquors. G. C. Kimble. bibliog Paper Tr J 115:37-46 Jl 16 '42
Diatoms in paper manufacture. H. W. Hall. Paper Tr J 115:107-9 O 1 '42
Drying rate for kraft paper. A. E. Montgomery. bibliog Paper Tr J 114:41-4 My 28 '42
Electrometric titration in alkaline pulping. G. J. Crocker and others. bibliog diags Paper Tr J 115:33-40 N 5 '42
Fiberizing of kraft screenings for paper and paperboard furnishes. C. K. Textor. il Paper Tr J 114:42-5 My 7 '42
First American sulphate firm plans great new mill; Brompton pulp & paper company. G. Agassiz. il Pulp & Pa of Can 43:422-30 My '42
Florida pulp and paper co. starts new kraft paper mill at Pensacola. R. G. Seip. il Paper Tr J 113:35-8, 40, 44-50 N 27 '41
Gypsum in the sulphate recovery process. T. T. Collins, jr. H. J. Hotz and E. Wiberg. bibliog Paper Tr J 114:39-41 My 7 '42
Kraft paper machine capacity characteristics; wrapping and bag paper. Paper Tr J 114:23-32 Ja 1 '42
Procedures and brightness grades in bleaching sulphate pulps. J. D. Rue and S. C. Nagel. Paper Tr J 114:26-33 Je 11 '42
Pulping sweetgum by alkaline processes. M. W. Bray and J. S. Martin. il Paper Tr J 113:35-46 D 18 '41
Relation of lignin content to the strength of paper and paperboards; pulpsheets and boards prepared from groundwood delignified by chlorine dioxide, sulphate, and soda processes. E. C. Jahn and C. V. Holmberg. bibliog Paper Tr J 114:33-8 Ap 23 '42
Sequence in multistage bleaching of kraft. S. D. Wells and F. B. Schelhorn. bibliog diags Paper Tr J 115:35-8 Ag 13 '42; Same cond. Paper Ind 24:314-16 Je '42
Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42
Use of gypsum in the kraft process. O. Kress and W. H. Aiken. bibliog Paper Tr J 113:41-4 N 13 '41

Sulfite process

Absorption of chemicals from neutral sodium sulphite liquor by sweetgum chips. J. N. McGovern, J. N. Evert and G. H. Chidester. Paper Tr J 113:27-31 D 4 '41
Bottlenecks in the sulphite industry. A. D. Merrill. il Paper Ind 23:991-3 Ja '42

PAPER making—Sulfite process—*Continued*

Bowater's erects new sulphite pulp mill and greatly increases output. il Paper Tr J 113:64, 66, 68, 71-2 N 27 '41
Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41
Circulation, and heat and acid recovery; forty years of progress. V. H. Emory. Pulp & Pa of Can 43:587-8 Jl '42
Control of direct-heated sulphite digesters. J. F. Inderdohnen. il diag Paper Tr J 115:35-7 Jl 30 '42
Control of sulphite cooking process; application of the reaction between aniline and lignin sulphonic acid. J. Seiberlich. Pulp & Pa of Can 43:260 F '42
End point of a sulphite cook; abstract. E. Sundstrom. Paper Ind 24:652 S '42
Flow of sulphite pulp slurries over weirs. R. P. Whitney and J. D. McNitt. Paper Tr J 115:33-5 Jl 30 '42
Forty years of progress; much progress made in acid making. H. Anvik. Pulp & Pa of Can 43:585-7 Jl '42
Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42; Abstracts. Paper Ind 24:214+ My '42; Pulp & Pa of Can 43:312 Mr '42
Nature of lignin residues in unbleached and partially bleached sulphite pulp. L. L. Larson. Paper Tr J 113:25-31 N 20 '41
Planning a career in the paper industry; sulphite procedure. D. C. Yates. Pulp & Pa of Can 43:250-2, 301-3 F-Mr '42
Some aspects of the chlorination of sulphite pulp. N. W. Coster and R. I. Thieme. bibliog diag Paper Tr J 114:31-5 Ja 8 '42
Some observations on the problem of iron in bleaching wood pulp. E. L. Keller and F. A. Simmonds. bibliog Paper Tr J 115:98-104 O 1 '42
Study of pH factor in hypochlorite bleaching of wood pulp; two-stage treatment of sulphite pulp. F. Casciani and G. K. Storin. Paper Tr J 115:89-97 O 1 '42
TAPPI chip packing survey. V. P. Edwardes. Paper Tr J 115:40-1 S 3 '42
Waste in pulp manufacture. W. H. Birchard. flow sheets Pulp & Pa of Can (Convention no) 43:153-6 [F] '42

Tables, calculations, etc.

Kraft paper machine capacity characteristics; wrapping and bag paper. Paper Tr J 114:23-32 Ja 1 '42

PAPER making machinery

Development of refiners; forty years of progress. Pulp & Pa of Can 43:622 Jl '42
Felts and wire performance. E. A. Paterson. Paper Ind 24:593-5 S '42
Flow spreader. S. M. Bratton and F. M. Sanger. il diags Paper Tr J 115:112-15 O 1 '42
Fourdrinier wires in the war effort. H. G. Specht. Paper Tr J 114:87-8 Je 25 '42
Function of a Yankee drier on a paper machine. K. Wandel. diags Paper Tr J 114:35-40 Ja 15 '42
Hazards at wet felt presses. G. J. Adams. il diags Paper Ind 23:1090-2 F '42
Improvements to cylinder machines; forty years of progress. J. C. Nutter. Pulp & Pa of Can 43:600-1 Jl '42
Kraft paper machine capacity characteristics; wrapping and bag paper. Paper Tr J 114:23-32 Ja 1 '42
Maintenance of refining equipment. S. H. Jones. Paper Tr J 114:78-9 Je 25 '42; Same. Paper Ind 24:418-19 Jl '42
New application of the Jordan in papermaking. J. H. DeCew. Paper Tr J 115:14 Jl 9 '42
New stock preparing equipment; forty years of progress. L. F. Winchell. Pulp & Pa of Can 43:594-5 Jl '42
Paper machine maintenance. C. S. Adams. Paper Tr J 114:75-6 Je 25 '42; Same cond. Pulp & Pa of Can 43:705-6 Ag '42
Paper machine maintenance; compiled by maintenance of paper machines committee. Paper Ind 24:414+ Jl '42
Plain and suction extractor rolls and their effect on wire life. O. C. Cordes. il Paper Tr J 114:80-4 Je 25 '42
Progress in the design of paper machines, 1902-1942. J. H. M. Jones. Pulp & Pa of Can 43:596-9 Jl '42
Report of the newsprint committee, Canadian pulp and paper association. Pulp & Pa of Can (Convention no) 43:170-2 [F] '42
Speed regulating device oustanding on new paper-making machine; electronic amplifier in combination with an amplidyne control. il Paper Tr J 113:114+ N 27 '41
Steam saved by better water removal at the presses. W. G. MacNaughton. diags Paper Tr J 115:33-40 Ag 27 '42; Excerpts. Paper Ind 24:540-1 Ag '42
Vacuum pumps for Fourdrinier flat boxes. C. Vicario. diags Paper Ind 23:998-1000+ Ja '42
WPB issues $1,000 machinery limit order. Paper Tr J 114:17 Ap 16 '42
Wires and felts are better now; forty years of progress. H. S. Spencer. Pulp & Pa of Can 43:599-600 Jl '42

See also

Electric driving—Paper mills	Paper drying Wood grinders

Bibliography

Bibliography of Fourdrinier wires. C. J. West and D. Gates. 137 numb l pa $5 Inst. of paper chemistry, Appleton, Wis. '41

Cleaning

Cleaning methods for felts and wires. T. F. O'Brien. Paper Tr J 114:90-1 Je 25 '42; Same. Pulp & Pa of Can 43:760-1+ S '42

Lubrication

Maintenance and conservation forum; lubrication. Paper Ind 24:622+ S '42

Manufacture

Welding simplifies screen construction. J. Baxter, jr. il diags Paper Ind 23:896-8 D '41

Statistics

Paper and paperboard production and papermaking machines in 1940. Paper Tr J 113:14+ D 25 '41

PAPER making materials

Aspects of war time paper making in Great Britain. C. Delderfield and J. Grant. Paper Tr J 115:27-30 O 22 '42
Cereal straws in paper and rayon pulp manufacture; abstract. G. Jayme and others. Paper Ind 23:948 D '41
Cotton pulps; modification by oxidizing and hydrolyzing agents. D. M. Musser and H. C. Engel. bibliog Paper Tr J 114:29-31 Ap 9 '42
Diatoms in paper manufacture. H. W. Hall. Paper Tr J 115:107-9 O 1 '42
Gluten meal in paper making. C. W. Stewart. Chem Age (Lond) 45:212 O 18 '41
Inorganic supplies; compiled by conservation of inorganic supplies committee. Paper Ind 24:421-2 Jl '42; Same. Pulp & Pa of Can 43:701-2 Ag '42
Paper process; made from cotton by-products as hull shavings and the waste from ginning, carding, etc. Chem Ind 50:207 F '42
Papermaking materials experience a year of unprecedented problems. W. R. Hicks. Paper Tr J 114:76+ F 19 '42
Soda pulping of Canton fiber; abstract. M. P. Ramiro and P. A. Estrada. Paper Ind 24:320 Je '42
Starch evaluation by a new viscosity method. C. A. Briggs and J. L. McCarthy. Paper Tr J 114:37-40 Ja 22 '42
Straw as a raw material for making paper and rayon pulps; abstract. G. Jayme. Chem & Met Eng 49:168 Ag '42
Straw for fine papermaking in England. Pulp & Pa of Can 42:774-5 D '41
Straw for industrial use, collection problems and quality. E. C. Lathrop and J. H. Shollenberger. il map Paper Tr J 114:46-53 My 14 '42

PAPER making materials—*Continued*

Suggested program for the conservation of critical materials. Paper Tr J 114:95-8 F 19 '42

See also

Cellulose
Esparto
Paper chemicals
Paper making—Fillers
Paper pulp
Paper sizing
Pine
Rubber latex
Straw
Waste paper
Wood pulp
Wood waste

Prices

Current market quotations. Published in monthly numbers of Paper industry and paper world
Market quotations. Published in weekly numbers of Paper trade journal
OPA amends rag prices. Paper Tr J 114:17 F 12 '42
OPA issues maximum prices on old rags. Paper Tr J 113:9, 16+ D 18 '41

Testing

Fibrous raw materials testing committee report, 1941. B. E. Lauer. bibliog Paper Tr J 114:29-30 Mr 12 '42
Importance of cuprammonium viscosity testing in the preparation of rag half-stock. H. U. Kiely and E. A. Bieniek. Paper Tr J 115:29-31 Ag 20 '42

PAPER mills

New Thilmany unit in operation. Paper Tr J 113:62 N 27 '41

See also

Electric driving—Paper mills
Paper board mills
Paper making
Water supply for paper mills

Accidents

Paper and pulp accident rates for year 1941. Paper Ind 24:514 Ag '42
Past, present and future of paper mill safety. G. G. Grieve. il Paper Ind 23:903-4 D '41

Accounting

Controlling manufacturing costs. A. F. Gurr. Pulp & Pa of Can (Convention no) 43:129-30 [F] '42
Costs for paper mill executives. F. J. Hickling. Paper Ind 24:275-7 Je '42

Electric equipment

Completely-electrified paper mill. C. E. Miller and F. A. Peschl. il Paper Ind 24:705-8 O '42
Electrical advances in the paper industry. H. W. Rogers. il diag Paper Ind 23:994-7 Ja '42
Electrical developments of 1941; paper mills. G. Bartlett. il Gen Elec R 45:29-30 Ja '42
Electrification of a modern paper mill. R. G. Seip and R. R. Baker. il Paper Ind 24:43-7 Ap '42
Hart moisture meters type K. il Paper Tr J 114:67 Je 25 '42
How to measure the width of moving webs or strips; photoelectric devices; production of textiles, paper, and strip metal. E. H. Alexander. il diags Gen Elec R 44:615-17 N '41
Many improvements in electrical equipment; forty years of progress. W. L. Eliason. Pulp & Pa of Can 43:607-8 Jl '42
New electric drives in a Canadian mill. J. H. Radcliffe and W. T. Fanjoy. il Pulp & Pa of Can 43:13-16 Ja '42
Recent engineering developments increase production. W. R. Harris. il diag Paper Ind 23:1093-6 F '42
Selection, installation and maintenance of electric motors. O. F. Vea. il Paper Ind 24:278-84 Je '42
Selection, installation, maintenance of control equipment. E. H. Alexander. il Paper Ind 24:495-8+ Ag '42

See also

Electric driving—Paper mills
Paper mills—Power

Employees

Collective bargaining in paper and allied products industry. A. W. Frutkin. Monthly Labor R 54:928-43 Ap '42
Developments in vocational training, 1941. W. L. Cassiday. bibliog Paper Tr J 114:38 F 5 '42
Girls replace men at Scott plant. Paper Tr J 115:39 O 29 '42
Hospital plan for Schweitzer workers; medical-surgical plan of New Jersey. il Paper Tr J 115:15 Jl 23 '42
Labor violations laid to two mills. Paper Tr J 113:27 D 11 '41
Management-labor committee established; Interlake tissue mills company. Pulp & Pa of Can 43:814 O '42
Paper company realizes need of training; Crown Willamette teaches employees. Pulp & Pa of Can 43:683-5+ Ag '42
Paper industry awardees prominent in Lincoln Foundation study. Paper Ind 24:675 O '42
Paper makers at Hong Kong; eleven Canadian companies represented. Pulp & Pa of Can 43:5-8 Ja '42
Planned career in the paper industry. D. C. Yates. Pulp & Pa of Can 42:599-601, 652-3, 659-60, 727-8, 769-70; 43:17-21, 250-2, 301-3, 361-2 S '41-Ap '42
Planning organization in the groundwood mill. V. L. Tipka. Paper Ind 24:700-1, 703-4 O '42
Policies of paper and pulp concerns with regard to military service. Paper Tr J 114:16, 18 Ap 23 '42
Pulp and paper men win welding awards. Pulp & Pa of Can 43:866 O '42
Training classes; Powell River company. Paper Tr J 113:129 N 27 '41
U.S. to study converted paper industry; Wage and hour division of Department of labor orders study to serve as basis of minimum wage rate. Paper Tr J 115:7 Ag 27 '42

Equipment

Acid-resistant metals; forty years of progress. C. Michels. Pulp & Pa of Can 43:614-15 Jl '42
A.R.P. equipment at Crane limited. il Pulp & Pa of Can 43:342 Mr '42
Automatic weighing of digester chip loadings. N. V. Edmonson. il diag Paper Ind 23:1097-9 F '42
Better pulp washers and thickeners; forty years of progress. G. Penney. Pulp & Pa of Can 43:588-9 Jl '42
Black-Clawson, Shartle, Dilts equipment. il Paper Tr J 113:110+ N 27 '41
Bowater's erects new sulphite pulp mill and greatly increases output. il Paper Tr J 113:64, 66, 68, 71-2 N 27 '41
Canadian pulp and paper association, Technical section, surveys means of saving; summary of replies to questionnaire on substitution for scarce materials. Pulp & Pa of Can 43:689-92 Ag '42
Care, study and ingenuity applied to flat screens. A. A. Lowe. Paper Tr J 115:29-31 Jl 2 '42
Chip control; Williams mechanical screening device. F. M. Williams. Paper Tr J 115:20 Jl 2 '42
Chip screen types have changed; forty years of progress. J. B. Jones. Pulp & Pa of Can 43:584+ Jl '42
Choosing a trap for paper mill service. F. L. Wellcome. il Paper Ind 23:901-2 D '41
Conservation by electroplating. D. H. Bissell. Paper Tr J 114:85-7 Je 25 '42
Consistency control improved; Williams centrifuge. Paper Tr J 113:24 D 25 '41
Continuous handling of materials; forty years of progress. Pulp & Pa of Can 43:617-18 Jl '42
Control makes great advances; forty years of progress. K. C. Logan. Pulp & Pa of Can 43:604-5 Jl '42
Critical materials priorities. J. L. Ritchie. Paper Tr J 114:32-6 Ap 9 '42

PAPER mills—Equipment—*Continued*

Data and observations on cable conveyor performance; report of the wood handling subcommittee, Canadian pulp & paper association. Pulp & Pa of Can (Convention no) 43: 101-8 [F] '42

Developments in the treatment of water. E. Nordell. flow diags plan diags Paper Tr J 115:23-7 O 8 '42; Same cond. Paper Ind 24: 744+ O '42

Florida pulp and paper co. starts new kraft paper mill at Pensacola. R. G. Seip. il Paper Tr J 113:35-8, 40, 44-50 N 27 '41

Forty years progress in material handling. F. F. Dority. Pulp & Pa of Can 43:616-17 Jl '42

Heat insulation, its relation to mill efficiency. R. C. Parlett. bibliog Paper Tr J 114:27-38 Je 4 '42

Improvements in log hauls and slashers; forty years of progress. Pulp & Pa of Can 43:575-6 Jl '42

Instruments in the pulp and paper industry. J. N. Franklin. Pulp & Pa of Can 43:306-10, 434-5+, 695-7, 817-20+ Mr, My, Ag, O '42 (to be cont)

Keep your monel on the firing line. R. T. Barnes, jr. il diag Paper Ind 24:365-7 Jl '42

Laminated plastic, one answer to shortage of critical metals. F. P. Hunsicker. il diags Paper Tr J 115:41-4 S 17 '42

Longer life for industrial rubber products. H. A. Everlien. il Paper Ind 24:145-9 My '42

Maintenance and conservation forum, American pulp and paper mill superintendents association. Paper Ind 24:414+, 524-32+, 618+ Jl-S '42

Maintenance of control instruments in the pulp, paper, and paperboard industry. H. O. Ehrisman. Paper Tr J 114:92-3 Je 25 '42; Same. Paper Ind 24:426 Jl '42

Maintenance of pumps. J. H. Hall. Paper Tr J 114:94-8 Je 25 '42

Maintenance paints and protective coatings; Parlon, chlorinated rubber-base paint. A. R. Olsen. Paper Tr J 113:37-8 N 13 '41; Same cond. with il. News Ed 19:1260, 1262, 1264 N 25 '41

Many improvements in finishing equipment; forty years of progress. C. N. Candee. Pulp & Pa of Can 43:603-4 Jl '42

Materials handling with industrial trucks. W. S. McCann. il Paper Ind 24:152-5 My '42

Mechanical developments in pulp bleaching. E. V. Ullman. il diags Pulp & Pa of Can (Convention no) 43:118-28 [F] '42

Mechanical regulator for thin stock, made by Cram co. il diag Paper Tr J 113:14 D 18 '41

Modern mills served by better pumps; forty years of progress. E. B. Wardle. Pulp & Pa of Can 43:613-14 Jl '42

Modern paper mill drives. E. R. Rath. il Paper Tr J 113:55-6, 58, 60+ N 27 '41

New steam plant at Riverbend; Price brothers & company. J. Foster and V. Foyle. il Pulp & Pa of Can 43:503-8 Je '42

Pipes, pumps, packing, and valves in the pulp and paper industry. V. F. Waters. flow charts il Paper Tr J 113:89-90+ N 27 '41

Piping, industry's most important transportation system; diagram. Heating-Piping 14: 290-1 My '42

Plastics in the paper industry. W. C. Pugh. Paper Tr J 114:11-13 Ja 1 '42

Speaking of changes in chippers; forty years of progress. H. B. Savage. Pulp & Pa of Can 43:582-3 bibliog(p595) Jl '42

Spiractor, the new sludgeless cold lime-soda water softener. H. L. Tiger and M. E. Gilwood. il diags Paper Tr J 115:27-31 S 24 '42

Stock preparation system. F. S. MacDonald. il diags Pulp & Pa of Can (Convention no) 43: 81-8, 93 [F] '42

Suggested program for the conservation of critical materials. Paper Tr J 114:95-8 F 19 '42; Abstract. Chem & Met Eng 49:196-7 My '42

Suggestions for saving critical materials; tabulated summary of papers, appearing in May 1942 issue of Pacific pulp & paper industry on conservation and substitution as practiced by West coast mills. Pulp & Pa of Can 43:753-9 S '42

TAPPI chip packing survey. V. P. Edwardes. Paper Tr J 115:40-1 S 3 '42

Treatment of filler for newsprint; clariflocculator tank at Baie Comeau. C. Dobell. il diags Pulp & Pa of Can 43:727-8 Ag '42

Useful engineering devices, presented by the Ottawa sub committee of the engineering committee, Canadian pulp and paper association. diags Pulp & Pa of Can (Convention no) 43:109-17 [F] '42

Vortraps in maintenance and conservation. D. Robbins. Paper Tr J 114:99 Je 25 '42

War takes electric power, paper mill burns coal; new boilers at Price brothers and company. J. W. Gathercole. il diag Pulp & Pa of Can 43:509-16 Je '42

Wood handling system of a modern newsprint mill; Lake St John power & paper co. F. R. MacDonald. il Pulp & Pa of Can 43:366-8 Ap '42

See also

Digesters (paper making)

Paper making machinery

Wood grinders

Heating and ventilation

Ventilation and air conditioning; forty years of progress. Pulp & Pa of Can 43:615-16 Jl '42

Lighting

Lighting for improved plant efficiency and safety. A. K. Gaetjens. bibliog il Paper Tr J 114:27-34 F 12 '42

Maintenance and repair

American pulp and paper mill superintendent's association annual meeting papers. C. S. Adams and others. Paper Tr J 114: 75-102 Je 25 '42

Lead pipe conservation and care of acid-proof linings. Pulp & Pa of Can 43:784 S '42

Maintenance and conservation forum, American pulp and paper mill superintendents association. Paper Ind 24:414+, 524-32+, 618+ Jl-S '42

Maintenance and conservation of converting equipment. W. J. Goetsch. Paper Tr J 115:28-30 Jl 9 '42

Maintenance conserves strategic metals. R. T. Barnes, jr. Pulp & Pa of Can 43:436-7 My '42

Metallizing in paper mill maintenance. W. C. Reid. il diags Paper Ind 23:663-5 O '41; Same. Pulp & Pa of Can 43:282-4 F '42

Metallizing saves time loss. il Paper Tr J 114:22 Ja 8 '42

Mill shutdowns prevented by checking and correcting. G. W. Phillips. il Paper Ind 24: 596-7 S '42

Oxyacetylene welding and cutting in paper mill maintenance. E. H. Ambach. il diags Paper Ind 24:271-4+ Je '42

Management

Fine papers and the war effort. B. L. Kassing. Paper Tr J 114:88-9 Je 25 '42

Human element in maintenance and substitution practices. P. S. Sinclair. Paper Tr J 114:79 Je 25 '42

Planning organization in the groundwood mill. V. L. Tipka. Paper Ind 24:700-1, 703-4 O '42

Priorities and the paper mill superintendents. E. G. Amos. Paper Tr J 114:100-2 Je 25 '42

Production planning in a rag mill. H. M. Grasselt. Paper Ind 24:371-2 Jl '42

Superintendents; their duties and responsibilities. H. Straus. Pulp & Pa of Can 43: 21-2 Ja '42

Use of intelligence in mill maintenance. W. F. Hoffman. Pulp & Pa of Can 43:703-5 Ag '42; Same cond. Paper Tr J 114:76-7 Je 25 '42

PAPER mills—*Continued*

Power

Canadian newsprint mills affected by diversion of power to war industries. For Comm W 9:19 N 7 '42
Complete new power unit at Tama; Central fibre products company. S. Blum. il diag plan Paper Tr J 113:73-7 N 27 '41
Curtailment of power in Canada criticized. Paper Tr J 115:18 S 17 '42
Fuels and power plant operation. B. F. Burns. Paper Tr J 114:55-6 My 21 '42
Maintenance of mechanical power equipment. Paper Ind 24:529-32+ Ag '42
Modern trends in steam generation; forty years of progress. R. J. Chambers. Pulp & Pa of Can 43:610-11 Jl '42
More steam without more boilers. G. H. Urban. Paper Ind 24:750-2+ O '42; Abstract. il Power 86:711-13 O '42
Operation and maintenance of high-pressure boilers. F. D. Mosher. il diags Paper Ind 24:156-9 My '42
Paper mills stagger operation to release electric power. Pulp & Pa of Can 43:847-8 O '42
Powell River company's new dam. F. H. Fullerton. il Pulp & Pa of Can 43:359-61 Ap '42
Power factor improvement. M. I. Alimansky and R. E. Insley. il Paper Tr J 113:37-8 D 25 '41
Power for a single-machine paper mill; St Regis paper co. il diags Power Pl Eng 46:48-52 Je '42
Steam power then and now; forty years of progress. R. G. Edwards. Pulp & Pa of Can 43:608-10 Jl '42
Treatment of rapidly changing feedwater; Filer fibre products co. K. Illig. flow diag map Power Pl Eng 46:91-2 N '42
Trends in combustion control. M. J. Boho. il diags Paper Tr J 114:38-42 Ap 30 '42
Turbine gear sets for paper machine drive. A. J. Churchill. il Paper Ind 24:370-1 Jl '42

Safety measures

Forty years of safety work. D. B. Chant. Pulp & Pa of Can 43:620-1 Jl '42
Hazards at wet felt presses. G. J. Adams. il diags Paper Ind 23:1090-2 F '42
Introducing the new employee; safety instructions, Scott paper co. H. Lamb. il Paper Ind 23:785-6 N '41
Ontario mills improve accident prevention. A. T. Whealy. Pulp & Pa of Can 43:355-7 Ap '42
Playing safe in the mill yard. W. H. Swindell. il Paper Ind 23:1204-5 Mr '42
Safe handling of wire rope. F. L. Spangler. Paper Ind 23:993+ Ja '42
Safety and efficiency in handling materials. Pulp & Pa of Can 43:441-3 My '42
Safety boosters club cuts accidents. G. C. Kerr. Pulp & Pa of Can 43:794+ S '42
Safety in this battle of production. J. E. Pinckney. il Paper Ind 24:47-9 Ap '42
Winder guards prevent accidents. J. A. Draper. il diags Pulp & Pa of Can 43:828, 845-6 O '42; Same abr. Nat Safety N 46:24-5 O '42

Waste

Analysis of sulphate black liquor; TAPPI tentative standard T 625 m-42. Paper Tr J 115:29-32 Ag 27 '42
Analysis of sulphate white and green liquors; TAPPI tentative standard T 624 m-42. Paper Tr J 115:30-2 S 10 '42
Broke handling methods; a literature review. bibliog Pulp & Pa of Can (Convention no) 43:166-7 [F] '42
Broke handling methods, 1941; answers to questionnaire from four mills or groups of mills. Pulp & Pa of Can (Convention no) 43:167-8 [F] '42
Calcium bicarbonate removal from water in sulphate mills. H. W. Frazer. diag Paper Tr J 114:31-4 Ap 2 '42
Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42
Chemical recovery in sulphate pulp mills; forty years of progress. A. G. Durgin and E. M. Davis. Pulp & Pa of Can 43:590+ Jl '42
Colored materials of alkaline cooking liquors. G. C. Kimble. bibliog Paper Tr J 115:37-46 Jl 16 '42
Electrometric titration in alkaline pulping. G. J. Crocker and others. bibliog diags Paper Tr J 115:33-40 N 5 '42
Fiberizing of kraft screenings for paper and paperboard furnishes. C. K. Textor. il Paper Tr J 114:42-5 My 7 '42
Flotation treatment of white water. E. N. Poor and H. A. Whitenight. bibliog diags Paper Tr J 114:21-4 F 26 '42
Paper waste causes slime growths. Eng N 129:98 Jl 16 '42
Refractories for lime recovery kilns. C. A. Brashares. il diags Paper Ind 23:1200-3+ Mr '42
Toxicity of sodium pentachlorophenate and pentachlorophenol to fish. C. J. Goodnight. bibliog Ind & Eng Chem 34:868-72 Jl '42
University of Minnesota conducts waste survey at plant of Minnesota and Ontario paper co. F. B. Rowley and R. C. Jordan. il Paper Tr J 113:106, 108-9 N 27 '41
Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42; Abstract. Paper Ind 24:310-12 Je '42
Waste in pulp manufacture. W. H. Birchard. flow sheets Pulp & Pa of Can (Convention no) 43:153-6 [F] '42
Wastes from the manufacture of paper from old-paper stock. E. F. Eldridge. flow diag Water Works & Sewerage 89:124-7 Mr '42

See also
Sulfite liquor

Bibliography

Bibliography of articles appearing in trade magazines in past two years. Pulp & Pa of Can (Convention no) 43:202-3 [F] '42

Canada

Curtailment of power in Canada criticized. Paper Tr J 115:18 S 17 '42
Paper mills stagger operation to release electric power. Pulp & Pa of Can 43:847-8 O '42

Florida

Florida pulp and paper co. starts new kraft paper mill at Pensacola. R. G. Seip. il Paper Tr J 113:35-8, 40, 44-50 N 27 '41

New Brunswick

New Brunswick pulp mill; St George pulp & paper company. C. A. Dixon. il Pulp & Pa of Can 43:249-50 F '42

Ontario

First American sulphate firm plans great new mill; Brompton pulp & paper company. G. Agassiz. il Pulp & Pa of Can 43:422-30 My '42
Ontario mills improve accident prevention. A. T. Whealy. Pulp & Pa of Can 43:355-7 Ap '42

PAPER money
Nylon paper money circulated. Rayon 23:264 My '42

Bolivia

Reopening of mint; revalidation of currency. For Comm W 6:10-11 F 28 '42

United States

Shipments and receipts of United States paper currency to and from Europe by selected banks and financial institutions in New York city, 1937-1940 and monthly Dec. 1940-Nov. 1941. Fed Res Bul 28:35 Ja '42 [cont monthly]
Treasury plans to reissue gold notes. Comm & Fin Chr 156:190 Jl 16 '42

PAPER patents. See Paper making—Patents

PAPER products
Displays made of paper open a new market for Marquardt & co.; Ugo Mochi, creator. il Sales Management 51:22-3 O 20 '42

PAPER products—*Continued*

Paper mill now manufacturing new plastic. Paper Tr J 115:9 Ag 20 '42

U.S. to study converted paper industry; Wage and hour division of Department of labor orders study to serve as basis of minimum wage rate. Paper Tr J 115:7 Ag 27 '42

See also
Paper containers
Paper textiles
Paper thread

PAPER pulp

Alkaline purification of cellulose. G. Goldfinger and H. Mark. Paper Ind 24:442 Jl '42

Cotton pulps; effects of supplementary materials on beating. D. M. Musser and H. C. Engel. bibliog Paper Tr J 115:33-5 Ag 20 '42

Cotton pulps; modification by oxidizing and hydrolyzing agents. D. M. Musser and H. C. Engel. bibliog Paper Tr J 114:29-31 Ap 9 '42

Deflocculation of long-fibered pulp by mucilages; abstract. F. D. Broadbent and H. A. Harrison. Paper Ind 23:838 N '41

Pulp bleaching; a literature review December, 1940 through December, 1941. J. L. Parsons and J. C. Tongren. bibliog (55 references) Paper Tr J 115:36-40 Ag 20 '42

Rice straw pulped with nitric acid; abstract. I. Schimoda and M. Kono. Paper Ind 24:652 S '42

What you can use; materials suitable in processing. Oil Paint & Drug Rep 140:61 D 22; 55 D 29 '41

See also
Wood pulp

Color

Colored materials of alkaline cooking liquors. G. C. Kimble. bibliog Paper Tr J 115:37-46 Jl 16 '42

Testing

Application of the electron microscope to problems of the pulp, paper, and paperboard industry. G. R. Sears and E. A. Kregel. bibliog il diags Paper Tr J 114:43-9 Mr 19 '42; Same cond. Paper Ind 24:764+ O '42

Brightness of pulp; TAPPI suggested method T 217 sm-41. Paper Tr J 113:43-7 D 25 '41

Colloidal and physical phenomena relating to freeness and stock drainage. R. W. Reed. bibliog diags Paper Tr J 114:23-9 Je 18 '42

Comparison of the capillary flow and falling sphere methods of determining the viscosity of cellulose in cuprammonium solutions. R. S. Hatch, R. N. Hammond and J. J. McNair. Paper Ind 24:436+ Jl '42

Drainage time and drainage factor of pulp; TAPPI tentative standard T 221 m-42. Paper Tr J 115:25-6 O 22 '42; Same. Pulp & Pa of Can 43:956+ D '42

New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42; Excerpts. Paper Ind 24:640+ S '42

PAPER research

Advances in the chemistry of wood 1941. F. H. Yorston. Pulp & Pa of Can (Convention no) 43:203-5 [F] '42

Alkaline purification of cellulose. G. Goldfinger and H. Mark. bibliog Paper Tr J 115:27-9 O 15 '42

Behavior of some lignin preparations in the molecular still. J. F. Hechtman. bibliog il diag Paper Tr J 114:45-50 My 28 '42

Cellulose and lignin research during 1941, in Sweden; abstract. E. Hägglund. Paper Ind 24:448 Jl '42

Colored materials of alkaline cooking liquors. G. C. Kimble. bibliog Paper Tr J 115:37-46 Jl 16 '42

Cupriethylenediamine as a solvent for cellulose fractionation. F. L. Straus and R. M. Levy. bibliog Paper Tr J 114:33-7 Ap 30 '42

Electrometric titration in alkaline pulping. G. J. Crocker and others. bibliog diags Paper Tr J 115:33-40 N 5 '42

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

Fibrous raw materials testing committee report, 1941. B. E. Lauer. bibliog Paper Tr J 114:29-30 Mr 12 '42

Industrial research in the United States during 1941; dendrotechnology. W. A. Hamor. il Chem & Eng N 20:23-4 Ja 10 '42

Instrumentation studies; Thwing multiple fold tester. il Paper Tr J 114:20+ Mr 26 '42

Mechanism of the chlorination of lignin. E. V. White and others. bibliog Paper Tr J 113:33-43 D 11 '41

Pulping studies on selected hybrid poplars. M. W. Bray and B. H. Paul. Paper Tr J 115:33-8 O 15 '42

Research of the Phrix corporation; conversion of cellulosic raw material into high alpha dissolving pulps; abstract. H. Jentgen and others. Paper Ind 24:776 O '42

TAPPI annual meeting; fundamental research session. Pulp & Pa of Can 43:380+ Ap '42

TAPPI discusses research at annual meeting. Oil Paint & Drug Rep 141:3+ F 23 '42

TAPPI reviews research; tests and activities at fall meeting. Oil Paint & Drug Rep 142:7+ O 12 '42

See also Lawrence college—Institute of paper chemistry

Bibliography

Microscopy committee report, 1941; publications. F. W. Bentzen. Paper Tr J 114:35-6 Ja 22 '42

PAPER rolls

Core waste nomograph. D. S. Davis. Paper Ind 24:373 Jl '42

War may affect paper roll sizes. R. R. Buvinger. Pulp & Pa of Can 43:263-4 F '42

PAPER sizing

Contact angle, its role in paper sizing. R. M. K. Cobb. bibliog il Paper Ind 24:598-9 S '42

Enzyme conversions of cornstarch. E. P. Gillan. Paper Tr J 115:109-11 O 1 '42; Same cond. Paper Ind 24:742+ O '42

Hide glue for tub sizing. O. V. Simonson. Paper Tr J 115:27-8 O 29 '42; Excerpts. Paper Ind 24:748+ O '42

Precipitated starch product; effect of soap on viscosity. C. C. Kesler and W. C. Black. bibliog Paper Tr J 114:57-60 My 21 '42

Progress in sizing and colouring. R. de Montigny. Pulp & Pa of Can 43:593-4 Jl '42

Starches in paper and paperboard manufacture. J. P. Casey. Paper Tr J 114:107-12, 114, 116-17 F 19 '42

Synthetic resin emulsions for paper saturation and sizing; used as extenders for rubber latex and reclaim. R. T. Nazzaro. Paper Tr J 115:29-32 N 5 '42

Testing paper for rosin content. J. F. Reardon, E. R. Stasielowski and J. E. Minor. Paper Ind 23:1001-3 Ja '42

Tub sizing. J. P. Strasser. Paper Ind 23:1116 F '42

See also
Paper coating

Testing

Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41

PAPER textiles

Paper textiles as substitutes. il Textile World 92:77 Je '42

PAPER thread

Sewed closures for paper bags; cotton thread replaced by spun paper or by polyvinyl alcohol filaments. J. S. Simpson, G. R. Beebe and A. W. Koon. Paper Tr J 114:117-18 F 19 '42

PAPER tires. See Tires, Paper

PAPER towels

How to conserve towels and tissue; campaign by Scott paper company. il Factory Management 100:120 My '42

Washroom paper economy is advertised as war measure; Scott paper company, oversold, organizes fight on waste. il Ptr Ink 199:12-13 Ap 17 '42

PAPER trade journal (periodical)

Seventieth anniversary. Paper Tr J 114:21-34 My 21 '42

PAPER using industries

See also
Printing trade

PAPER waste. See Waste paper

PAPPENHEIMER, Alwin Max, 1878-

Eli Lilly co. award won by Pappenheimer. Oil Paint & Drug Rep 141:5 Ja 5 '42

PARABATRACHOPUS argentina

Triassic footprints from Argentina. R. S. Lull. diags Am J Sci 240:421-5, pl 1 Je '42

PARACHORS

Study of organic parachors; constitutive variations of the parachors of a series of normal ketones. K. Owen, O. R. Quayle and W. J. Clegg. Am Chem Soc J 64:1294-6 Je '42

PARACHUTE fabrics

Effect of yarn elongations on parachute fabric strength. W. J. Hamburger. diag Rayon 23: 151-3, 291-2, 332-4 Mr, My-Je '42

Hints to silk weavers; preventing defects which cause rejection of parachute fabrics. Textile World 92:84 Je '42

Parachute cloth; weaving information. Textile World 92:101 Ag '42

Testing

Hermas parachute fabric inspection machine. il Textile World 92:115 S '42

Improved instrument for measuring the air permeability of fabrics. H. F. Schiefer and P. M. Boyland. pls diag J Research Nat Bur Stand 28:637-42 My '42

To keep them flying; J. P. Stevens & company parachute fabric testing laboratory. H. R. Mauersberger. il Rayon 23:380-1 Jl '42

PARACHUTE troops. See United States—Army—Parachute troops

PARACHUTES

Marines have landed; parachute training. A. D. Rathbone, 4th. il Sci Am 166:3-6 Ja '42

Optimum time of delay for parachute opening. W. A. Wildhack. bibliog J Aeronautical Sci 9:293-301 Je '42

Parachute flare base. il Mod Plastics 19:57+ Ag '42

Parachute jumping is safer than it looks; abstract. W. J. Tobin, L. J. Cohen and J. T. Vandover. Nat Safety N 45:60 Ja '42

Parachutes. H. S. Zim. 252p $2.50 Harcourt '42

Parachutes; development, use, maintenance. J. F. Smith. 91p Landau book co, 16 E. 17th st, New York '42

Radio-equipped smoke jumpers; parachuting forest fire fighters. S. R. Winters. il Radio N 27:6-8+ Ap '42

They learned about parachuting from us; Russia got idea from American county fair. A. Barmine. il Aviation 41:142-3+ Mr '42

Training paratroops. S. R. Winters. il Aero Digest 40:95-6, 99+ Je '42

Water 'chuting; marines use gas inflated jackets. Sci Am 166:123 Mr '42

PARA-CYMENE. See Cymene

PARAFFIN

Interaction of slow neutrons with nuclei. H. Carroll. bibliog diags Phys R 60:702-9 N 15 '41

Paraffin washing plant for machine parts. il Engineering 154:206-7 S 11 '42; Engineer 174:159 Ag 21 '42

Shut off for medium-pressure lines. M. Leaman and W. Morrow. diags Gas Age 89:29-30 Ap 23 '42

See also
Petroleum—Paraffin problem

Analysis

Determining the oil content of paraffin waxes. R. Lee and V. A. Kalichevsky. bibliog diags Ind & Eng Chem Anal ed 14:767-9 O 15 '42

Prices

Henderson orders wax price ceiling. Nat Pet N 33:5+ N 26 '41

OPA establishes maximum prices for paraffin wax. H. S. Norman. Oil & Gas J 40: 18 F 5 '42

OPA ruling on paraffin-wax prices covering higher cost of cotton against burlap bags. For Comm W 7:27 Ap 25 '42

Paraffin price schedule amended. Oil Paint & Drug Rep 141:3+ F 2 '42

Paraffin wax price ceiling effective today. Oil Paint & Drug Rep 140:3+ D 1 '41

Wax price ceiling is amended by OPA. Nat Pet N 34:20 F 11 '42

PARAFFINE companies, inc.

Earnings from many products. H. Lawrence. Barron's 22:20 F 9 '42

Ersatz plan pays. Business Week p57-8 F 21 '42

PARAFFINS

Addition of hydrogen fluoride to the triple bond. A. V. Grosse and C. B. Linn. bibliog diag Am Chem Soc J 64:2289-92 O '42

Alkylation of paraffins at low temperatures in the presence of aluminum chloride. H. Pines, A. V. Grosse and V. N. Ipatieff. diags Am Chem Soc J 64:33-6 Ja '42

Brucine as a reagent for partially resolving bromoalkanes; the configurations of some diastereomeric dibromoalkanes. H. J. Lucas and C. W. Gould, jr. bibliog Am Chem Soc J 64:601-3 Mr '42

Carboxylation; the photochemical and peroxide-catalyzed reactions of oxalyl chloride with paraffin hydrocarbons. M. S. Kharasch and H. C. Brown. bibliog Am Chem Soc J 64:329-33 F '42

Critical states of two-component paraffin systems. F. D. Mayfield. bibliog Ind & Eng Chem 34:843-9 Jl '42

Free energies and equilibria of isomerization of the butanes, pentanes, hexanes, and heptanes. F. D. Rossini, E. J. R. Prosen and K. S. Pitzer. bibliog J Research Nat Bur Stand 27:529-41 D '41

Heats of isomerization of the nine heptanes. E. J. R. Prosen and F. D. Rossini. bibliog J Research Nat Bur Stand 27:519-28 D '41

Indigenous fuels; gaseous paraffins for transport purposes. Automobile Eng 31:413-14 N '41

Kinetics of the thermal decomposition of straight chain paraffins. R. E. Burk, L. Laskowski and H. P. Lankelma. bibliog Am Chem Soc J 63:3248-50 D '41

Mathematical correlation of the paraffins. P. Buthod and others. Oil & Gas J 41:38 O 1 '42

Methods of preparing butadiene. G. Egloff and G. Hulla. Oil & Gas J 41:40-1, 43 N 5; 231-3 N 12 '42

Molecular volume nomograph for liquid alkanes. D. S. Davis. Ind & Eng Chem 34: 797 Jl '42

Molecular volume of liquid alkanes at corresponding temperatures. G. Egloff and R. C. Kuder. bibliog Ind & Eng Chem 34:372-3 Mr '42

Nitration of aliphatic hydrocarbons. G. Egloff, M. Alexander and P. M. Van Arsdell. bibliog Oil & Gas J 41:39-41+ O 15 '42

Oxidation of aliphatic hydrocarbons. G. Egloff, D. V. Nordman and P. M. Van Arsdell. bibliog Oil & Gas J 41:207-10 S 24; 35-6 O 1; 49, 51-3 O 8 '42

Reactive paraffins, an addition. H. C. Brown and M. S. Kharasch. J Chem Educ 18:589 D '41

PARAFFINS—*Continued*
Solvent properties of isomeric paraffins. E. H. McArdle and A. E. Robertson. bibliog Ind & Eng Chem 34:1005-8 Ag '42
α-Thienylaminoalkanes. F. F. Blicke and J. H. Burckhalter. bibliog Am Chem Soc J 64:477-80 Mr '42
See also
Butane
Ethane
Methane
Nitroparaffins
Octane
Propane

PARAFORMALDEHYDE
Tertiary base textile softeners. A. J. Hall. Textile Col 64:224-6 My '42

PARAGENESIS. See Ore deposits

PARAGRAPHS
Reading rhythm; a study of paragraph structure; readability of copy can be improved. N. B. Bjornson. Ptr Ink 197:47+ N 21 '41

PARAGUAY
See also
Labor laws and legislation—Paraguay

Commerce

Foreign trade of Paraguay for 1940 and 1941. 8p pa 10c Pan American union, Washington, D.C. '42

Commercial policy

New compensation system adopted to promote exports of Paraguayan products. For Comm W 6:15 Ja 31 '42

Economic conditions

New by countries. For Comm W 8:35 S 12 '42

PARAHYDROGEN. See Hydrogen

PARALYSIS
See also
Infantile paralysis

PARAMECIUM
Origin of dipeptidase in a protozoan. W. L. Doyle and E. K. Patterson. Science 95:206 F 20 '42
Sterile culture of paramecium multimicronucleata. W. H. Johnson and E. G. S. Baker. bibliog Science 95:333-4 Mr 27 '42
Transition from the individual to the social level. H. S. Jennings. bibliog Science 94:447-53 N 14 '41

PARAMOUNT pictures, inc.
Consolidated income account, 1938-1941. Comm & Fin Chr 156:259 Jl 20 '42
Earnings, etc.; report at annual meeting. B. Balaban. Comm & Fin Chr 155:2370 Je 22 '42
Exchange offer; listing of additional debentures. Comm & Fin Chr 155:1684 Ap 27 '42
Favored stocks from $10 to $25. Mag of Wall St Manual p14 Ap '42
Outstanding stocks for income and profit. il Mag of Wall St 70:441 Ag 8 '42
Status of Paramount pictures 4s, 1956. Barron's 22:20 Jl 13 '42
Stocks favored by special circumstances. E. A. Barnes. Mag of Wall St 70:194 My 30 '42
Thumbnail stock appraisal. Mag of Wall St 69:323 D 27 '41

PARASITES
Introduction to parasitology. A. S. Pearse. 357p $3.75 C. C. Thomas, 220 E. Monroe st, Springfield, Ill. '42
Requirements of parasites for more than hosts. G. N. Wolcott. Science 96:317-18 O 2 '42
Textbook of clinical parasitology, including laboratory identification and technic. D. L. Belding. 888p bibliog(p845-7) $8.50 Appleton-Century '42
Tick parasites on Cape Cod. S. Cobb. Science 95:503 My 15 '42
See also
Bacteria
Lice

Man

Medical parasitology. J. T. Culbertson. 285p bibliog(p271-2) $4.25 Columbia univ. press '42

PARCEL post
Christmas mail for armed forces abroad. Comm & Fin Chr 156:816 S 3 '42
Railway and air express, parcel post. C. E. Johnston. 63p, 54p, 35p $2.60 International textbook co, Scranton, Pa. '41

PARCELS for the forces, inc.
Contacting service men. Business Week p36-7 Ap 18 '42
For men in the services. il Mod Packaging 15:34-6 Je '42
Parcels for the forces. Barron's 22:5 Ap 20 '42

PARENT and child (law)
Parental liability in negligence cases; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:34-5 Ap 16 '42

PARIS, France
What happened to Haussmann; the great baron who rebuilt Paris. R. Moses. il plan map Arch Forum 77:57-66 Jl '42

PARK, James Grant, 1896-
Personalities in chemistry. A. D. McFadyen. por Chem Ind 49:602-3 N '41

PARK river, Connecticut
Putting a river underground; pressure conduit to carry the Park river underground through Hartford, Conn. il diag map Eng N 128:180-3 Ja 29 '42

PARKE, Davis and company
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:645 O 3 '42

PARKER, James Wentworth, 1886-
Portrait. Mech Eng 64:53 Ja '42; Power 85:971 Mid-D '41

PARKER rust-proof company
Growth stocks and the investor. E. N. Chapman. Barron's 22:39 Ja 12 '42

PARKERIZING. See Metal protection

PARKING. See Automobile parking

PARKS
See also
Landscape gardening
National parks and reserves
Parkways

PARKS, State. See State parks

PARKS-CRAMER company
Parks-Cramer in new home. il Textile World 92:90 Ja '42

PARKWAYS
Current divided-highway design practices. il diags Eng N 128:273-8 F 12 '42
Kanawha boulevard at Charleston extended. W. Brewster. il diags Eng N 127:789-91 D 4 '41
Parkways in New York metropolitan area. S. M. Shapiro. il map Civil Eng 12:239-42 My '42

PARLIAMENTARY practice
How to organize and conduct a meeting. W. H. F. Henry and L. Seeley. rev ed 133p 50c Grosset & Dunlap, New York '42

PARLIN, Charles Coolidge, 1872-1942
Sketch. por Ptr Ink 201:68 O 23 '42

PARLON. See Paint, Protective

PARMELEE, Cullen Warner, 1874-
We salute Doctor Cullen Warner Parmelee for four decades of successful service in ceramics. por Am Cer Soc Bul 21:117-21 bibliog(99 titles, p119-21) Jl 15 '42

PARSONS, Sir Charles Algernon, 1854-1931
Sir Charles Parsons and mechanical gearing. S. F. Dorey. Engineering 154:277-8, 297-8, 377-80 O 2-9, N 6 '42; Same cond. Engineer 174:238-41, 261-3 S 18-25 '42
Sir Charles Parsons and the Royal navy. S. Goodall. diags Engineer 173:261-3, 281-2, 309-10 Mr 27-Ap 10 '42

PARSONS, Elsie Clewes, 1875-1941
Sketch. F. Boas. Science 95:89-90 Ja 23 '42

PART-time employment
Part-time employment of women in Great Britain. Monthly Labor R 54:1089-91 My '42
Part-time employment of women in industry. W. J. Barber. Engineer 173:395 My 8 '42

PART-time employment—*Continued*

Part-time workers. Economist 142:498-9 Ap 11 '42

PARTICIPATING policies. See Insurance—Participating policies

PARTICIPATING programs. See Radio advertising, Cooperative

PARTICIPATING stocks. See Stocks, Preferred—Participating stocks

PARTICLE concentration analysis

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

PARTICLES

Apparatus for particle size analysis. il diags Engineering 154:141-2, 181-2, 221-3, 241-2 Ag 21, S 4, 18-25 '42

Calculation of the distribution function. C. W. Ufford and E. P. Wigner. Phys R 61:524-7 Ap 1 '42

Colloidal properties of aqueous dispersions of titanium dioxide. S. W. Martin. bibliog diags Paper Tr J 115:31-8 Jl 23 '42

Correlation of certain properties of oil-well drilling-mud fluids with particle-size distribution. G. L. Gates and C. P. Bowie. bibliog diags U S Bur Mines Rep of Invest 3645:1-22 '42; Abstract. Oil & Gas J 41:42 Jl 23 '42

Determination of particle size distribution for particle sizes between 40 and 1 or 2 microns. W. O. Hinkley. Ind & Eng Chem Anal ed 14:10-13 Ja 15 '42; Correction. 14:297 Ap 15 '42

Determining the surface area by air permeability method. S. L. Meyers. bibliog il diags Rock Prod 44:56-9 D '41

Determining the surface area of powdered materials from granulometric analyses; abstract. H. zur Strassen and W. Strätling. Am Cer Soc Bul 21 (Cer A 21):151-2 Jl 15 '42

Effect of particle size on the tinting strength of pigments. G. Barrick. bibliog Paint Oil & Chem R 104:7-10 Ja 1 '42

Fractionation of colloidal systems; selection of operating conditions for the supercentrifuge. G. Fancher, S. C. Oliphant and C. R. Houssiere, jr. Ind & Eng Chem Anal ed 14:552-4 Jl 15 '42

Fundamental study of clay; surface area and its effect on exchange capacity of kaolinite. A. L. Johnson and W. G. Lawrence. bibliog Am Cer Soc J 25:344-6 Ag 1 '42

Heat transfer to clouds of falling particles. H. F. Johnstone, R. L. Pigford and J. H. Chapin. diags Ill U Eng Exp Sta Bul 330: 1-55 '41 (pa 65c)

Influence of flint particle size on permanent moisture and thermal expansion in porous earthenware bodies. W. E. Palmer. bibliog Am Cer Soc J 25:413-16 O 1 '42

Magnetic moments at high frequencies. L. Page. Phys R 60:675-84 N 1 '41

Measuring the specific surface of particulate substances; a water vapor adsorption method. D. Smith and H. Green. bibliog diag Ind & Eng Chem Anal ed 14:382-6 My 15 '42

Method for the determination of the quantity of suspended material in gas. C. W. Wilson. bibliog il diag Am Gas Assn Mo 24:325-7 S '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

Observations on the preparation of slides for particle-size determination. L. Silverman and W. Franklin. J Ind Hygiene 24:51-2 Mr '42

Paint dispersions; a particle size distribution approach to solid-liquid systems. S. W. Martin. il Can Chem & Process Ind 26: 451-6 Ag '42

Particle size in relation to insecticide efficiency. C. M. Smith and L. D. Goodhue. bibliog il Ind & Eng Chem 34:490-3 Ap '42

Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14: 622-32 Ag 15 '42

Particle sizing and hydroseparation in phosphate recovery. B. J. Larpenteur. flow sheets il Eng & Min J 143:50-1 Mr '42

Physics of pigments in dispersed systems. H. Green. bibliog il J Ap Phys 13:611-22 O '42

Powdered metal particle size quickly measured. il Iron Age 150:45 Ag 20 '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Relation of paint properties to surface areas of carbon black. O. J. Brown, jr. and W. R. Smith. bibliog il Ind & Eng Chem 34:352-5 Mr '42

Scattering of light by an aggregate of small dielectric particles. R. Landshoff. J Phys Chem 46:778-81 Je '42

Some applications of wave-length turbidimetry in the infrafred. C. E. Barnett. bibliog J Phys Chem 46:69-75 Ja '42

Study of the grindability of coal and the fineness of pulverized coal when using the Lea-Nurse air permeability method for evaluating the subsieve fractions. J. B. Romer. bibliog diag Am Soc T M Proc 41:1152-66; Discussion. 1167-71 '41

Technical microscopy in the rubber industry. R. P. Allen. bibliog il Ind & Eng Chem Anal ed 14:740-5 S 15 '42

Viscometric estimation of particle dimensions; the system stearic acid-carbon tetrachloride. J. P. Hollihan and D. R. Briggs. bibliog J Phys Chem 46:685-93 Je '42

See also

Cloud chambers
Colloids
Dispersion
Dust
Electrophoresis
Granular materials
Powders
Sand
Sedimentation
Suspensions

PARTICLES, Alpha. See Alpha rays

PARTICLES, Nuclear. See Deuterons; Electrons; Neutrinos; Neutrons; Protons; Radioactivity

PARTIDO system

Partido system. M. L. Upchurch. J Land & Pub Util Econ 18:218-19 My '42

PARTITION (chemistry)

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

PARTITIONS

Factory-made partitions. il Comp Air M 46: 6599 N '41

Flexible space; house of 194x. il diags plans Arch Forum 77:100-3 S '42

Movable space dividers; new house of 194x. il diags Arch Forum 77:120-1 S '42

Remodeling construction; interior partitions; time-saver standards. C. T. Sigman. diags Arch Rec 91:58 F '42

Small house of 194x; one permanent interior partition. diags plans Arch Forum 77:72-3 S '42

PARTNERSHIP

Converting close corporations into partnerships or individual proprietorships. W. H. Whitney. J Account 72:514-23 D '41

Morgan Stanley & co. will be partnership. Comm & Fin Chr 154:1314 D 4 '41

Partnership settlements easy when life insurance is used. E. Beckman. Bankers Mo 59:56-7+ F '42

Wartime guides for your business; when a partnership may be preferable to corporate form of organization. W. H. Hillyer. Barron's 22:3-4 O 26 '42

See also

Corporation law
Joint adventure

PASS books. See Bank books, Depositors'

PASSENGER ejection. See Motor bus lines—Passenger ejection

PASSENGER traffic officers, American association of. See American association of passenger traffic officers

PASSIVITY

Passivating lead; abstract. B. N. Kabanov. Chem & Met Eng 49:163 Je '42

PASTURES

Year round pasturing; with list of crops which go together advantageously. E. Wright. il Manuf Rec 111:26-7+ Mr '42

See also

Grasses

PATCH test. See Skin—Diseases

PATELLA

Fractures of the patella; methods of treatment. J. E. M. Thomson and C. F. Ferciot. il diags Ind Med 11:468-70 O '42

PATENT insurance. See Insurance, Patent

PATENT laws and legislation

Flash of genius patent doctrine and the chemist. T. Cifelli, jr. Chem & Eng N 20: 523-4 Ap 25 '42; Discussion. 20:1234-5 O 10 '42

Flash of genius; reprinted from Journal Patent office society. J. N. Nielsen. Chem & Eng N 20:1234 O 10 '42

Law of patents and designs. F. Tebbutt. Chem Age (Lond) 46:124 Mr 7 '42; Same. Soc Dyers & Col J 58:98-9 My '42

Patent law reform with special reference to chemical patents. H. E. Potts. Soc Dyers & Col J 57:329-31; Discussion. 331 N '41

Patent laws would kill invention incentive. Comm & Fin Chr 156:814 S 3 '42

War and peace and the patent system; the fight has less to do with patents than with free markets in a new world. il Fortune 26:102-5+ Ag '42; Reply. J. M. Leach. 26:38 N '42

See also

Copyright

Trade marks

Great Britain

British and American patents. S. T. Madeley. Electrician 129:268-9 S 11 '42

Government control of patents. S. T. Madeley. Electrician 128:535-6 My 29 '42

New war-time patent regulation. S. T. Madeley. Electrician 129:445 O 23 '42

Patent law; some defects and peculiarities. Chem Age (Lond) 46:170 Mr 28 '42

War and patents relating to conveyors. S. T. Madeley. Mech Handling 29:27-8 F '42

War extensions of patents. Engineering 154: 314-15 O 16 '42

United States

Anti-truster Arnold seeks longer arm to deal with abuses of patent system. Nat Pet N 34:12 Ag 5 '42

Arnold's aim, to correct abuses of patent system; interview with Thurman W. Arnold; with opposing opinions. Electronics 15:42-5+ N '42

Attacks on patent system. Steel 111:90+ S 14 '42

Bill gives President war-time power to confiscate patents. Product Eng 13:536-7 S '42

British and American patents. S. T. Madeley. Electrician 129:268-9 S 11 '42

Case histories in patent law (cont). H. A. Toulmin, jr. Product Eng 13:111, 170, 296, 413 F-Mr, My, Jl '42

Data on American patent system desired by National patent planning commission. A. A. Potter. Mech Eng 64:819 N '42

Defend our patent system; summaries of bills now before Senate committee. Chem & Eng N 20:784 Je 25 '42

For amateur inventions only; your invention and how to protect it. J. R. Darnell. Power Pl Eng 46:70-2 Je '42

F.D.R. vs. Arnold? 1918 patent amendment now handicaps drive for new law. Business Week p81-3 My 23 '42

In defense of our patent system. J. A. Dienner. Nat Pet N 34 pt 2:R229-30, R232, R289-91 Jl 29-Ag 26 '42; Same cond. Oil & Gas J 41:22-3 Jl 2 '42

International role of science in time of war and peace; U.S. wartime patent policy. C. P. Coe. For Comm W 5:32-4 N 29 '41

Invention; war inspires—law protects; inventions in aid of defense. G. V. Woodling. il diags Machine Design 14:55-9 F '42

Patent gives no right to control accessories. Oil Paint & Drug Rep 141:7+ Ja 12 '42

Patent laws in our social scheme. N. Littell. Chem & Eng N 20:533-5 Ap 25 '42

Patent litigation in 1940 and 1941. N. Littell. Ind & Eng Chem 34:88-92 Ja '42

Patent tactics and law; what the industrial executive and engineer should know about patents. R. S. Hoar. rev ed 315p $4.50 Ronald press '40

Patents and antitrust law. L. I. Wood. 218p bibliog(p213-18) $3.50 Commerce clearing house '42

Patents and free enterprise. W. R. Ballard. Sci Am 166:238-9 My '42

Pending legislation aims at wartime patent procedure. G. V. Woodling. il diags Machine Design 14:75-8 S '42

Senate committee undertakes patent reform by confiscation. il Product Eng 13:548-51, 644-6 O-N '42

Should we change the patent law? Am Mach 86:1218-20 O 29 '42

U.S. patent system. G. T. Gill. Pet Eng 13:69, 71-3 Ag '42

Who owns the patent? inventions of bus company employees. L. T. Parker. Bus Transportation 21:217-19 My '42

PATENT leather. See Leather—Manufacture

PATENT medicine. See Medicines, Proprietary

PATENT pooling. See Patents—Licensing

PATENTS

Engineering the patent. J. F. Cavanagh. Product Eng 12:677 D '41

Flash of genius; reprinted from Journal Patent office society. J. N. Nielsen. Chem & Eng N 20:1234 O 10 '42

In defense of our patent system. J. A. Dienner. Nat Pet N 34 pt 2:R229-30, R232, R289-91 Jl 29-Ag 26 '42; Same cond. Oil & Gas J 41:22-3 Jl 2 '42

Lack of full description of inventions patented in the U.S. Electronics 15:124-8 Ag '42

Library vs. laboratory research. A. Connolly. Ind & Eng Chem News ed 18:904-5 O 25 '40; Same abr. Min & Met 23:21-2 Ja '42

Patent procedure. M. Henninger. il Product Eng 13:16-18, 82-4, 148-9, 281-2 Ja-Mr, My '42

Patents and antitrust law. L. I. Wood. 218p bibliog(p213-18) $3.50 Commerce clearing house '42

Patents and free enterprise. W. R. Ballard. Sci Am 166:238-9 My '42

Patents and industrial progress; a summary, analysis, and evaluation of the record on patents of the Temporary national economic committee. G. E. Folk. 393p $3 Harper '42

Patents and patent cartels. Min & Met 23: 323-4 Je '42

Patents for Hitler. G. Reimann. 316p $2.50 Vanguard press, 424 Madison av, New York '42

Patents on march. Business Week p52+ Ja 24 '42

Pending on patents; current to-do over foreign cartel alliances. Business Week p20+ Ap 25 '42

U.S. patent system. G. T. Gill. Pet Eng 13: 69, 71-3 Ag '42

U.S. sets patent policy on frozen credits. Oil Paint & Drug Rep 141:7 Je 1 '42

U.S. takes over from the enemy. Business Week p15-16 Je 6 '42

PATENTS—*Continued*

War and patents. Economist 142:260-1 F 21 '42

See also

Acoustic patents
Aeronautics—Patents
Automobiles—Patents
Chemical patents
Copying processes—Patents
Dye patents
Food—Patents
Glass manufacture—Patents
Inventions
Magnesium—Patents
Paper making—Patents
Patent laws and legislation
Petroleum refining—Patents
Rayon—Patents
Resinous products—Patents
Rubber—Patents
Shoe machinery—Patents
Textile patents
Trade marks

Enemy ownership

See Enemy property

International aspects

British and American patents. S. T. Madeley. Electrician 129:268-9 S 11 '42

Licensing

Atabrine licensing limited for present. Oil Paint & Drug Rep 141:4 Je 8 '42

Atabrine patent licensing urged. Oil Paint & Drug Rep 141:3+ Ap 20 '42

Data on pooled patents. Rubber Age 51:316-17 Jl '42

Fixing resale price of patented articles violates trust law Supreme court holds. Comm & Fin Chr 155:1880 My 14 '42

For free patents; Bone committee will hold hearings to speed bill to license all war industry. Business Week p14 Ap 11 '42

Judge's decision in Toledo trial dissolves glass container patents. Cer Ind 39:26-7 S '42

Magnesium patents opened to industry. Oil Paint & Drug Rep 141:5+ Ap 20 '42

Patent-pooling attacks draw vigorous replies by accused companies. Steel 110:42-3 Ap 20 '42

Patent price-fixing against trust laws. Oil Paint & Drug Rep 141:5+ My 18 '42

Patents in all lines seized on Presidential order. Oil Paint & Drug Rep 141:7+ Ap 27 '42

Patents seizure program outlined. L. T. Crowley. Oil Paint & Drug Rep 141:5+ My 4 '42

Senate committee undertakes patent reform by confiscation. il Product Eng 13:548-51, 644-6 O-N '42

Strategy of hate; attack on labor and industry. B. M. Selekman. Harvard Business R 20 no 4:393-401 [Jl] '42

Toledo trial concluded; judge's decision. Glass Ind 22:334+ S '42

Tungsten carbide patent agreement assured U.S. independent supply; abstract. Z. Jeffries. Steel 110:37+ Ap 27 '42

War and peace and the patent system; the fight has less to do with patents than with free markets in a new world. il Fortune 26:102-5+ Ag '42

PATHE film corporation

Common stock; proposed cash distribution. Comm & Fin Chr 154:1057, 1269 N 15, 29 '41

PATHFINDER life insurance company

Sues Nebraska authorities over Pathfinder issue. Nat Underw (Life ed) 45:4 N 28 '41

PATHOGENIC bacteria. See Bacteria, Pathogenic

PATHOLOGY

Essentials of pathology. L. W. Smith and E. S. Gault. 2d ed 904p bibliog(p867-882) $10 Appleton-Century '42

Functional pathology. L. Lichtwitz. 567p $8.75 Grune & Stratton, 443 4th av, New York '41

PATIÑO, Simón Ituri, 1865-

Tin: the U.S. gets all but Patiño's. por Fortune 25:70-1 Ja '42

PATINO mines and enterprises consolidated

Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:595 S 19 '42

PATMAN law. See Price discrimination—Patman law

PATRIOTISM

Political scientist and world problems. D. W. Brogan. Ann Am Acad 222:13-20 Jl '42

Symbols of national solidarity; four freedoms. H. F. Gosnell. bibliog Ann Am Acad 223:157-61 S '42

PATTERN making

Collecting pattern shop cost data by separate jobs. A. E. Grover. Foundry 70:68-9+ Mr '42

Crescent pattern-making machine. il Engineering 152:447-8 D 5 '41

Governs aluminum for patterns; orders of the WPB. M. E. Kohler. Foundry 70:137-8 Je '42

Pattern equipment for quantity production of small and medium castings; abstract. F. G. Butters. Metals & Alloys 15:466 Mr '42

Patternmakers cover wide variety of topics; abstracts of A.F.A. convention papers. Foundry 70:91-2 Je '42

Plaster patterns for the foundry. H. Plucknett. il diags Iron Age 149:42-5 My 28 '42

Plastic used for shoes repairs foundry patterns; Celastic. Steel 111:98 O 12 '42

Plywood match plates. E. W. Horlebein. il Iron Age 149:46-7 Ja 8 '42

See also

Sheet metal work—Pattern making

PATTERNS (dress)

Help-retailers-sell plan builds 40,000,000-a-year pattern volume; Simplicity pattern company. il Sales Management 50:56-8 Ja 15 '42

Simplicity pattern co. is selling 50 per cent more dress patterns to the Latin-American market than last year. Dun's R 49:44 N '41

Susie sews; sales of piece goods and patterns. il Business Week p58+ Je 13 '42

Advertising

Home sewing advertising is on the mend. G. Murray. il Ptr Ink 200:23-4+ S 4 '42

PATTERSON, Thomas Stewart, 1872-

Retirement of Professor Patterson. Chem & Ind 61:271-2 Je 20 '42

PAUL, Randolph Evernghim, 1890-

Portrait. Business Week p14 Mr 7 '42

PAVEMENT breakers. See Pavements—Cutting

PAVEMENTS

Cement spreader and road-mix methods speed large surfacing jobs in California. il Eng N 129:366-8 S 10 '42

Ensuring a smooth-riding surface on resurfaced pavements. il Can Eng R & B 79:23+ D '41

Equipment for speed and profit in airport construction. J. C. Coyle. il Pub Works 73:25-6+ Ap '42

Inland plant for bomber assembly and plane testing field. il Eng N 128:607 Ap 23 '42

New type pavement from mine tailings, added to soil and cement mixtures. il Eng N 128:985-8 Je 18 '42

1941 pavement construction records in California. Roads & Sts 85:46 Ag '42

Paving of outdoor bus storage; practices of various companies. Transit J 86:76-7 F '42

Shaving puts new face on pavement. il Roads & Sts 85:54 Mr '42

Soil-cement runways for a large army airport. il diag Eng N 128:38-40 Ja 1 '42

Standards of construction for roads of various types in the province of Quebec. E. H. Gohier. il Can Eng R & B 79:19-21, 52+ N '41

See also

Airports—Surfaces
Bridges—Floors
Roads
Streets

PAVEMENTS—*Continued*

Cost

Paving, Chemung County airport, New York; unit prices. Eng N 128:828 My 14 '42

Street paving, Richmond, Kentucky; unit prices. Eng N 128:46 Ja 1 '42

Cutting

Rapid pavement breaker. F. Wackenhut. Transit J 86:249-50 Jl '42

Design

Design and control of flexible pavement construction. W. H. Campen and J. R. Smith. il Roads & Sts 84:39-41 D '41

Design of airport paving from the soil mechanics viewpoint. T. A. Middlebrooks and G. E. Bertram. il diag Civil Eng 12:389-92 Jl '42

Reconstruction of old pavements on heavily traveled highways. E. T. Baker. il diags Roads & Sts 85:42-7, 50+ Je '42

Foundations

Airports for hundred-ton bombers; need for scientific design for pavements on military flying fields. W. R. Macatee. il diags Roads & Bridges 80:16-18+ Jl '42

Cement-treated base course takes hold on Pacific coast. il Concrete 49:8 D '41

Design of airport paving from the soil mechanics viewpoint. T. A. Middlebrooks and G. E. Bertram. il diag Civil Eng 12:389-92 Jl '42

Use of bitumen in soil stabilization. H. Gardner. pls diags Inst Pet J 27:329-43; Discussion. 344-7 O '41

PAVEMENTS, Asphalt

Airports for hundred-ton bombers; need for scientific design for pavements on military flying fields. W. R. Macatee. il diags Roads & Bridges 80:16-18+ Jl '42

Asphalt; pocket reference for highway engineers. P. Hubbard and B. E. Gray. rev ed 254p 30c Asphalt inst, 801 2d av, New York '41

Important developments in asphaltic surfacings. B. E. Gray. il Roads & Sts 85:36-41 Ja '42

Oxidation of asphalt in thin films. A. R. Ebberts. bibliog il Ind & Eng Chem 34:1048-51 S '42

Smoothing corduroyed roads in Springfield, Mo. L. A. Weeks. il Pub Works 73:17-18 O '42

Tests of furfural as an anti-stripping agent; prevents stripping of asphalt from hydrophilic aggregates. A. S. Janssen. il Roads & Sts 85:41-8 S '42

Trends in asphalt pavement design. B. E. Gray. il Eng N 128:242-4 F 12 '42

Testing

Measurement of oxidation stability of road asphalts. A. P. Anderson, F. H. Stross and A. Ellings. bibliog Ind & Eng Chem Anal ed 14:45-9 Ja 15 '42

PAVEMENTS, Bituminous

Big airbase paved in ninety days; 604,000 sq.yd. of concrete and 330,000 sq.yd. of asphaltic pavement. il Eng N 129:481 O 8 '42

Bituminous paving; discussion before National crushed stone association. Rock Prod 45:56-7 Mr '42

Bituminous runway construction; Winnebago County airport, Oshkosh, Wisconsin; with cost data. J. C. Black. il Roads & Sts 85:54+ O '42

Design and control of flexible pavement construction. W. H. Campen and J. R. Smith. il Roads & Sts 84:39-41 D '41

Effect of glassy slag on the stability and resistance to film stripping of bituminous paving mixtures. Pub Roads 22:209-12 N '41

Getting satisfactory results from airport paving. W. M. Aldous. il Can Eng R & B 79:20-1+ D '41

Loess asphalt mix used for army airport paving. il diag Eng N 127:875-8 D 18 '41

Preventative maintenance for bituminous distributors. W. E. Worcester. Roads & Sts 85:84 O '42

Recover special sands and gravel for bituminous road mixes; Eau Claire sand and gravel co. il Rock Prod 45:24-5 My '42

Road and street stabilization; abstract. R. W. Crum and F. Burggraf. Pub Works 73:36-7 Jl '42

Specifications for bituminous surfaces for highways and airport runways. il Pub Works 73:21-4 F; 26-34 Mr; 19-20, 36-9 Ap '42

Wartime requirements for asphalt. G. Abson. Nat Pet N 34:R60+ F 18 '42

See also

Pavements, Asphalt

Roads, Bituminous

Maintenance and repair

Street maintenance practices; patching bituminous surfaces. il Pub Works 73:16-17+ Jl '42

PAVEMENTS, Bituminous concrete

Skidding on asphalt runways raises paving question. Civil Aero J 3:130 Je 15 '42

PAVEMENTS, Brick

Modern brick pavements. W. H. Cullimore. il Roads & Sts 85:49, 52-3 Ja '42

Permanent lane markers at Canton. J. A. Shisler. il diag Eng N 129:221 Ag 13 '42

Testing

Tests of monolithic brick pavement slabs. W. F. Kellermann. il Pub Roads 23:85-8, 97-8 Jl-S '42

PAVEMENTS, Concrete

Big airbase paved in ninety days; 604,000 sq.yd. of concrete and 330,000 sq.yd. of asphaltic pavement. il diags Eng N 129:479-81 O 8 '42

Buggymobile for road and airport paving; mobile concrete-placing unit. il Roads & Bridges 80:44 Ag '42

Canvas cover permits wet weather paving on concrete deck of Pit River bridge. il Eng N 128:223 F 5 '42

Cement dispersing agent for paving concrete. Roads & Sts 85:82 S '42

Circus moves to Alaska; tent at Yakutat Bay, Alaska, protecting newly-laid concrete runways at army base. il Eng N 127:839 D 11 '41

Concrete in the war. il Rock Prod 45:59-62 Ag '42

Concrete pumped for elevated roadway deck; Gowanus elevated parkway in Brooklyn, N.Y. il Eng N 128:150-1 Ja 22 '42

Conservation of critical materials approved by executive committee of State highway officials' association. Roads & Sts 85:72 Ap '42

Effect of carbon black on the strength of mortar. D. O. Woolf. Pub Roads 22:231-2 D '41

How concrete pavements are protected by linseed oil treatments. H. D. Metcalf and C. W. Allen. diag Concrete 50:36-7 Ag '42

Laminated decking speeds pier construction and protects deck concreting in winter. il diags Eng N 128:976-9 Je 18 '42

Major improvement of St Louis airport for defense. W. J. Gray. il Civil Eng 12:152-3 Mr '42

Paducah, Ky. paves its streets with concrete. T. A. Bradley. il Concrete 49:33 D '41

Paving at Fort Knox. J. C. Black. il Roads & Sts 85:31-5 F '42

Paving methods at an eastern airbase. il Eng N 128:12-13 Ja 1 '42

Paving runways at half a mile a day clip. il Eng N 129:18-19 Jl 2 '42

Placing concrete in cold weather; calcium chloride protects concrete at much lower temperature than formerly thought possible. J. A. Knight. Roads & Bridges 80:43, 96, 98 O '42

Relieving platform bulkhead for New York's East River drive. L. C. Hammond. il diags Civil Eng 12:251-4 My '42

PAVEMENTS, Concrete—*Continued*

Simplifying concrete street construction. il diags Eng N 128:337-8 F 26 '42

Smoothing corduroyed roads in Springfield, Mo. L. A. Weeks. il Pub Works 73:17-18 O '42

Special runway for world's largest plane; Clover field, Santa Monica. R. D. Spencer. il Pub Works 73:19-20 Ja '42

Speed in placing concrete runways hastens completion of big airport. Concrete 50:46 F '42

Strengthening our highway bridges; integrating a concrete roadway slab with the steel floor system. E. L. Pavlo. il diags Eng N 128:339-42 F 26 '42

Use of mud jack in strengthening concrete pavement. J. W. Poulter. Am Concrete Inst J 13:475-6 Ap '42

Willow Run airport; 153 acres of paving completed in 94 days. F. M. Reck. il Aero Digest 41:88, 90, 93+ Ag '42

See also

Bridges—Floors
Feeding floors, Concrete
Floors, Concrete
Roads—Foundations—Concrete
Roads, Concrete

Cost

Force account concrete pavement widening project. il Roads & Sts 85:28-30 My '42

Street paving, Chicago; unit prices. Eng N 128:940 Je 4 '42

Design

Changes in pavement specifications are necessary for the duration. H. F. Clemmer. il Concrete 50:33-5 S '42

Design concrete pavements without steel. diags Concrete 50:33-4 My '42

Research board's report on rigid pavement design. Roads & Bridges 80:108 Mr '42

Saving steel on heavy-duty concrete pavements by simplified design procedure. A. A. Anderson. diags Roads & Bridges 80:30-1+ Ag '42

Stress concentrations in plates loaded over small areas. H. M. Westergaard. bibliog Am Soc C E Proc 68:509-34 Ap '42; Discussion. 68:1225-31, 1433-8 S-O '42

Trends in concrete highway design. A. A. Anderson. il Eng N 128:245-7 F 12 '42; Discussion. R. D. Bradbury. 128:469 Mr 26 '42

Wartime concrete pavement design; abstract. L. E. Andrews. Eng N 129:537-8 O 22 '42

Joints

Effects of joints on cracking in concrete pavements; abstract. F. V. Reagel and D. E. Gotham. Roads & Bridges 80:108 Mr '42

No metal expansion, contraction and load transfer joints. H. J. Fixmer. diags Roads & Sts 85:40-1 Ap '42

Maintenance and repair

Street maintenance practices; patching cement concrete pavements. il Pub Works 73:25, 28 Ag '42

Scaling

General observations on concrete scaling; organic admixtures showed satisfactory resistance. J. W. Kushing. il Roads & Sts 84:23-30 D '41

Treated cement concrete resists scaling; use of treated portland cements and blends with natural cement. A. A. Anderson. il Explosives Eng 20:10-14, 26-30 Ja '42

Testing

Study of the cause of nonuniformity in the compressive strength of concrete pavement cores; effect of aggregate. V. L. Glover. diags Am Concrete Inst J 13:133-46 N '41; Discussion. 13:sup 148¹-148¹² Je '42

PAVEMENTS, Steel

Strengthening our highway bridges; integrating a concrete roadway slab with the steel floor system. E. L. Pavlo. il diags Eng N 128:339-42 F 26 '42

PAVEMENTS, Wood

Sealed wood deck construction. il Roads & Sts 85:41 Je '42

PAY days

Our merchants help cash the new flood of payroll checks; insured check plan and educational program at Macon, Georgia. E. S. Lee. il Bankers Mo 58:494-5+ N '41

Staggered pay days. Banking 35:46 N '42

To stagger pay days for government employees. Comm & Fin Chr 156:1550 O 29 '42

What's the pay-day picture today? pictograph. Sales Management 50:30 Ap 20 '42

PAYMENT

Par values vs. market price. M. L. Hayward. Barron's 22:2 S 14 '42

See also

Checks
Collecting of accounts
Debtor and creditor
Instalment plan
Insurance—Premiums, Payment of
Insurance, Life—Premiums, Payment of
Wage payment plans

PAYROLL deductions. See Wage deductions

PAYROLLS

Bank finds advantages in pay-by-credit plan for employees. Burroughs Clearing House 26:4-5 My '42

Distributing wages to shift workers. Management R 31:147-9 Ap '42

Employment and pay rolls in Ohio; revised series, monthly, 1923-1941; manufacturing payrolls, March 1931-Dec. 1941. Survey of Cur Business 22:17 Mr '42

Factory employment and payrolls, by industries (without seasonal adjustment) monthly Oct. 1940-Nov. 1941. Fed Res Bul 28:60-1 Ja '42 [cont monthly]

Our merchants help cash the new flood of payroll checks; insured check plan and educational program at Macon, Georgia. E. S. Lee. il Bankers Mo 58:494-5+ N '41

Trend of employment and unemployment. Published in Monthly labor review

See also

Labor cost
Pay days
Wage deductions
Wage payment plans

Accounting

Absences with pay and computing overtime. Bankers M 144:83-4 Ja '42

Bonus payments as wages under the Wage and hour law. Banking 34:41 Ja '42

Design and installation of payroll savings plans for the purchase of war bonds. R. Bruce. N A C A Bul 24:169-92 O 15 '42

Fewer clerks make up more payroll in less time. D. M. Olson. il Factory Management 100:87-8+ Jl '42

Less work, more speed in the payroll department; Riverside and Dan River cotton mills. il Am Business 12:18-19, 47 Ap '42

Pensions and overtime. T. W. Holland. Bankers M 144:250 Mr '42

Reserves; deductions for social security taxes as deposits. Fed Res Bul 28:532-3 Je '42

Taking the headaches out of payroll accounting. J. Garth. Am Business 11:32-3 D '41

Taking the headaches out of payroll handling. il Am Business 12:18-20 Ag '42

Variable work week overtime tables. Burroughs Clearing House 26:6+ Ap '42

When employees buy defense bonds with salary deductions; International Harvester finds mechanized accounting. H. E. Fleming. il Am Business 11:34-6 D '41

When the payroll expands; Packard payroll of 17,000 workers. R. G. French. il Am Business 12:22-4, 42-3 Ja '42

See also

Labor cost—Accounting

Records

Court restricts wage-hour administration. Comm & Fin Chr 155:1164 Mr 19 '42

Records required by the wage-hour law. Banking 34:43 D '41

Time-saving payroll plan at Chrysler tank arsenal. R. G. French. il Am Business 12:36-8 Mr '42

When the payroll expands; Packard payroll of 17,000 workers. R. G. French. il Am Business 12:22-4, 42-3 Ja '42

PAYROLLS—*Continued*

Taxation

Holds unpaid social security tax entitled to priority. Comm & Fin Chr 155:1140 Mr 19 '42

1941 federal payroll taxes 12 per cent of all collections. Steel 110:391 Ja 5 '42

Old age benefits; is retirement pay wages? Banking 34:41 D '41

Prospects for a study of the economic effects of payroll taxes. C. Shoup. 74p pa 50c Committee on social security, Social science research council, 726 Jackson pl, NW, Washington, D.C. '41

PEACE

Appeasement before, during and after the war. P. Einzig. 215p $2.50 Macmillan '41

Carnegie endowment for international peace, year book, 1941. 210p Carnegie endowment '41

Diplomacy and God. G. Glasgow. 237p $2.50 Longmans '41

Education to a peaceful civilization must transcend national interest. F. Frankfurter. Comm & Fin Chr 156:1270 O 8 '42

Everyman's affair; a plea for a sane peace. A. R. Fry. 109p bibliog(p102-7) $1 S. J. Reginald Saunders, 84 Wellington st, W, Toronto '41

Impulse to dominate. D. W. Harding. 256p bibliog(p249-51) $2.50 Norton '42

Law and peace in international relations. H. Kelsen. 181p $2 Harvard univ. press '42

Organization of peace. F. C. Nájera. Ann Am Acad 222:60-73 Jl '42

Out of darkness. J. H. Holmes. 151p $1.50 Harper '42

Pacifism is not enough, nor patriotism either. P. H. K. Lothian. 2d ed 57p pa 30c Oxford '41

Peacemakers' dilemma; plea for a modus vivendi in the peace movement. B. Pickard. 75p pa 25c Pendle Hill, Wallingford, Pa. '42

Problems of lasting peace. H. Hoover and H. Gibson. 295p $2 Doubleday '42

Purpose of America. D. C. Coyle. Ann Am Acad 220:193-9 Mr '42

Science of peace. P. M. Brown. 63p 75c Revell '42

See also

International relations

Reconstruction (World War, 1939-)

War

World war, 1939—Peace and mediation

PEACHES

Canned yellow clingstone peaches; canned freestone peaches; brief summaries of grade standards. Food Ind 14:60, 106-9 O '42

Analysis

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

PEACHES, Dried

Standards

Brief summaries of AMS standards. Food Ind 14:46 Ag '42

PEANUT flour

Development, manufacture, and utilization of peanut flour. D. S. Payne. Chem & Eng N 20:1173-4 S 25 '42

PEANUT oil

Evaluation of the peanut as a cash crop. S. L. Jodidi. Franklin Inst J 234:147-54, 229-38 bibliog(p 237-8) Ag-S '42

Gobs of goobers; Agriculture department's program. Business Week p73 F 28 '42

Preparation of sulphonated peanut oil; abstract. J. B. Gallent. Chem & Met Eng 49:210 S '42

PEANUTS

Evaluation of the peanut as a cash crop. S. L. Jodidi. Franklin Inst J 234:147-54, 229-38 bibliog(p 237-8) Ag-S '42

Gobs of goobers; Agriculture department's program. Business Week p73 F 28 '42

Marketing peanuts and peanut products. H. J. Clay. U S Agric Misc Pub 416:1-124 bibliog(p120-2) '41

Peanut areas in India. For Comm W 5:29 D 20 '41

Peanut marketing formula drafted. Oil Paint & Drug Rep 142:5+ Ag 10 '42

Peanut marketing plan formulated. Oil Paint & Drug Rep 142:4 Ag 31 '42

Peanuts from French West Africa; exports, production, and consumption, 1931-1940. For Comm W 8:28 Jl 4 '42

Peanuts in India, 1941-42. For Comm W 7:23 My 16 '42

PEARL assurance company

Extracts from life revenue accounts. Economist 142:696 My 16 '42

Harrington replies to Carlsson letter on withdrawal of Pearl. Weekly Underw 145:1061+ N 8 '41

Montana-Pearl case settlement effected. Ins Field (Fire ed) 71:12 Ag 20 '42

Pearl marks 15th anniversary of operations in United States. East Underw 43:20 My 8 '42

Pink reprimands Pearl for Montana deal in 1936. Nat Underw 46:6 Ja 1 '42

Stay ordered in Pearl hearing in Montana issue. Nat Underw 45:7 N 13 '41

PEARL HARBOR, Battle of. See World war, 1939—Hawaiian Islands

PEARLITE

Nucleation and growth rates of pearlite. J. E. Dorn, E. P. De Garmo and A. E. Flanigan. bibliog Am Soc for Metals Trans 29:1022-36 D '41

Structure and rate of formation of pearlite. R. F. Mehl. bibliog il diags Am Soc for Metals Trans 29:813-62 D '41; Same cond. Iron Age 148:45-9 O 30 '41

Structure of pearlite. F. C. Hull and R. F. Mehl. il diags Am Soc for Metals Trans 30:381-421 bibliog(42 references, p420-1); Discussion. 421-4 Je '42

PEARS

Standards

Canned pears; brief summaries of AMS standards. Food Ind 14:109-10 S '42

PEAS

Growth stimulation of peas by tetrachloro-para-benzoquinone, a fungicidal seed protectant. G. L. McNew. Science 96:118-19 Jl 31 '42

Standards

Brief summaries of AMS standards; canned peas. Food Ind 14:46-7 Ag '42

PEAS, Frozen

Determination of the maturity of frozen peas. F. A. Lee. Ind & Eng Chem Anal ed 14:241 Mr 15 '42

Quick freezing saves material, transportation. L. S. Martin. Refrig Eng 44:174 S '42

Standards

Brief summaries of AMS standards. Food Ind 14:62+ S '42

PEAT

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41; Same cond. Gas J (Lond) 237:130, 133-4 Ja 28 '42

Canadian peat moss developments; abstract. H. A. Leverin. Can Chem & Process Ind 26:595 O '42

Paleoecology of two peat deposits on the Oregon coast. H. P. Hansen. 31p bibliog (p30-1) pa 50c Oregon state college, Corvallis '41

Peat moss in New Brunswick. P. Taylor. il diag map Can Min J 63:357-60 Je '42

PEAT bogs

Paleoecology of two peat deposits on the Oregon coast. H. P. Hansen. 31p bibliog(p30-1) pa 50c Oregon state college, Corvallis '41

PEBBLE mills

Dispersion of pigments by ball and pebble mills. E. K. Fischer. bibliog il Ind & Eng Chem 33:1465-71 D '41

PEBBLE mills—*Continued*

Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42

PEBBLES

Flood deposits of Arroyo Seco, Los Angeles county, California. W. C. Krumbein. bibliog diags maps Geol Soc Bul 53:1355-1402, pl 1-7 S '42

PECHER, Charles, 1913-1941

Sketch. J. H. Lawrence. Science 94:533 D 5 '41

PECTATES

Properties of citrus pectates and pectin and their relation to the rubber industry. C. W. Wilson. bibliog Rubber Age 51:121-4 My '42

PECTINS

Demethylated pectins offer advantage in low-sugar jellies. G. L. Baker and M. W. Goodwin. Food Ind 14:53+ S '42

Demethylation of pectin and its effect upon jellying properties; abstract. G. L. Baker and M. W. Goodwin. Food Ind 14:109-10 Je '42

New pectin uses. Business Week p44 O 10 '42

Properties of citrus pectates and pectin and their relation to the rubber industry. C. W. Wilson. bibliog Rubber Age 51:121-4 My '42

Recent progress in the chemistry of the pectic materials and plant gums. E. L. Hirst. Chem Soc J p70-8 F '42

Sweet as cider; government chemists turn cider to syrup, and waste pulp to high-powered pectin. Business Week p68 F 14 '42

Why not convert the apple jack plants? B. T. Branham. flow diag Food Ind 14:44-5+ Jl '42

PEDALS

Which pedal is best? University of Iowa study. R. M. Barnes, H. Hardaway and O. Podolsky. diags Factory Management 100:98-9 Ja '42

PEDDLERS and peddling

Picketing against system of peddling upheld in New York. Monthly Labor R 54:1158 My '42

PEDICELLIN

Derivatives of pentahydroxybenzene, and a synthesis of pedicellin. W. Baker. Chem Soc J p662-70 O '41

PEGMATITES

Mica-bearing pegmatites of New Hampshire; a preliminary report. J. C. Olson. maps U S Geol S Bul 931-P:363-403, pl 61-3; pa 25c Supt. of doc. '42

Tin-bearing pegmatites of the Tinton district, Lawrence county, S.D. W. C. Smith and L. R. Page. plan maps U S Geol S Bul 922-T: 595-630, pl 90-94; pa $1 Supt. of doc. '41

PEIMINE

Preparation and properties of peimine and peiminine. T. Q. Chou and T. T. Chu. Am Chem Soc J 63:2936-8 N '41

PEIMININE

Preparation and properties of peimine and peiminine. T. Q. Chou and T. T. Chu. Am Chem Soc J 63:2936-8 N '41

PELARGONALDEHYDE

Peroxides derived from η-aldehydo-octoic acid and nonaldehyde: bis-α-hydroxy-ω-carboxyoctyl peroxide and bis-α-hydroxynonyl peroxide. G. King. Chem Soc J p218-20 Mr '42

PELEE, Mount

Nails from ruins of St Pierre, examined for evidence of conditions existing in the nuée ardente. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:208-11, 522-6 F, Ap '42

PELLAGRA

Effect of pyridoxine on the urinary excretion of a new fluorescent substance. S. A. Singal and V. P. Sydenstricker. Science 94:545 D 5 '41

PENCIL sharpeners

Plastics competition award to Triple "E" products co. il Mod Plastics 19:74-5 N '41

PENCILS

Pencils controlled. Economist 142:806 Je 6 '42

Manufacture

Pencils and power; General pencil co. il Diesel Power 20:42-5 Ja '42

PENDULUM

Control of torsional vibration in radial aircraft engines by means of tuned pendulums. V. Moore. diags J Aeronautical Sci 9:229-44 My '42

Optimum performance of pendulum-type torsional vibration absorber. A. H. Shieh. diags J Aeronautical Sci 9:337-40 Jl '42

PENEPLAINS

Geological extrapolation and pseud-abyssal sediments. W. G. Woolnough. bibliog Am Assn Pet Geologists Bul 26:765-92 My '42

PENETROMETERS

Penetrometer control of rolled fill. F. H. Kellogg. il Eng N 129:550-4 O 22 '42

PENICILLIC acid

Anti-bacterial substances from moulds; penicillic acid, a metabolic product of penicillium puberulum Bainier and penicillium cyclopium Westling. A. E. Oxford, H. Raistrick and G. Smith. Chem & Ind 61:22-4 Ja 10 '42

Anti-bacterial substances from moulds; some observations on the bacteriostatic powers of the mould products citrinin and penicillic acid. A. E. Oxford. Chem & Ind 61:48-51 Ja 24 '42

PENICILLIN

Effect of penicillin on the growth and morphology of staphylococcus aureus. L. D. Smith and T. Hay. il Franklin Inst J 233: 598-602 Je '42

Germ chemicals from the soil. J. Stafford. Science 95:sup12 Ja 2 '42

More antiseptics from molds. Science 95:626-7 Je 19 '42

Penicillin. K. Meyer and others. bibliog Science 96:20-1 Jl 3 '42

PENICILLIUM

Mold penicillium. C. Hill. Science 94:sup9-10 N 21 '41

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

PENICILLIUM chrysogenum

Bacteriostatic agent of penicillium chrysogenum. L. D. Smith. Franklin Inst J 234: 396-402 O '42

PENICILLIUM citrinum

Anti-bacterial substances from moulds; citrinin, a metabolic product of penicillium citrinum Thom. H. Raistrick and G. Smith. Chem & Ind 60:828-30 N 22 '41

PENICILLIUM cyclopium

Anti-bacterial substances from moulds; penicillic acid, a metabolic product of penicillium puberulum Bainier and penicillium cyclopium Westling. A. E. Oxford, H. Raistrick and G. Smith. Chem & Ind 61:22-4 Ja 10 '42

PENICILLIUM puberulum

Anti-bacterial substances from moulds; penicillic acid, a metabolic product of penicillium puberulum Bainier and penicillium cyclopium Westling. A. E. Oxford, H. Raistrick and G. Smith. Chem & Ind 61:22-4 Ja 10 '42

PENICILLIUM spinulosum

Anti-bacterial substances from moulds; spinulosin and fumigatin, metabolic products of penicillium spinulosum Thom and aspergillus fumigatus Fresenius. A. E. Oxford and H. Raistrick. Chem & Ind 61:128-9 Mr 14 '42

PENICILLIUM stipitatum

Synthesis of compounds related to mould metabolic products; 3 : 5-dihydroxy-2-formylbenzoic acid and 3 : 5-dihydroxyphthalic acid. J. H. Birkinshaw and A. Bracken. Chem Soc J p368-70 My '42

PENICK, Sydnor Barksdale, jr.
Elected president of Penick co. por Oil Paint & Drug Rep 141:7+ Je 29 '42

PENINSULAR and Oriental steam navigation company
Earnings, years Sept. 30, 1939-1941. Economist 141:758 D 20 '41
Ordinary general meeting, 101st, London. Economist 141:800 D 27 '41

PENN mutual life insurance company
Policyholders' report. East Underw 43:12 Ap 10 '42

PENNEY, J. C., company
Annual report. Comm & Fin Chr 155:1415 Ap 6 '42
Earning power. H. Lawrence. Barron's 22:5 Je 22 '42
Investment audit. H. J. Nelson. Barron's 22:13 Ag 17 '42
Thumbnail stock appraisal. Mag of Wall St 69:265 D 13 '41

PENNROAD corporation
Annual report for 1941. Comm & Fin Chr 155:1124-5 Mr 16 '42
Directors cleared in U.S. court; stockholder's suit over stock deals dismissed. Comm & Fin Chr 155:1517 Ap 13 '42
Total due corporation put at $23,844,931. Comm & Fin Chr 156:84 Jl 6 '42

PENNSYLVANIA
Plenty of Pennsylvania; samples of seven cultures persisting from colonial days. C. Weygandt. 319p $3.50 H. C. Kinsey & co, 105 W. 40th st, New York '42

See also
Coal mines and mining—Pennsylvania
Geology—Pennsylvania
Petroleum—Pennsylvania
Roads—Pennsylvania
Water supply—Pennsylvania

Industries and resources

Industrial trends in Pennsylvania since 1914. C. W. Hasek, G. L. Leffler and R. H. Waters. 128p pa 50c Pennsylvania state college, State College, Pa. '42
Regional planning in Pennsylvania. R. H. Smith. Elec Eng 61:149-51; Discussion. 151-2 Mr '42

Directories

Tenth industrial directory of the commonwealth of Pennsylvania. 972p Bur. of statistics and information, Harrisburg, Pa. '41

Politics and government

Bibliography

Bibliography on Pennsylvania government. 188p pa $1 Institute of local and state government, Univ. of Pennsylvania, Philadelphia '41

PENNSYLVANIA casualty company
Commercial Credit buys Pennsylvania Casualty. Nat Underw 46:15-16 Ag 27 '42
Company analysis. Spectator (Property ed) 7:26-9+ Ap 16 '42

PENNSYLVANIA-central airlines corporation
Preferred stock offered. Comm & Fin Chr 154:1269 N 29 '41

PENNSYLVANIA electric company
Issuance of securities, etc. Comm & Fin Chr 155:924 Mr 2 '42
Securities offered. Comm & Fin Chr 155:1018-19 Mr 9 '42

PENNSYLVANIA gas and electric corporation
Consolidated hearing before SEC. Comm & Fin Chr 155:365 Ja 24 '42

PENNSYLVANIA power and light company
Financial status. O. Ely. Pub Util 30:664 N 5 '42

PENNSYLVANIA railroad
Annual report, 95th. Comm & Fin Chr 155:1217 Mr 23 '42
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:599 S 19 '42
High yield stocks. S. Devlin. Mag of Wall St 69:675 Mr 21 '42
Liable for Pennroad loss. Comm & Fin Chr 154:1702 D 27 '41
Pays bonds. Comm & Fin Chr 156:868 S 7 '42
Pennroad payoff; stockholders win decision against Pennsylvania railroad. Business Week p64-5 D 27 '41
Pennsylvania reports on its large 1941 traffic. Ry Age 112:534+ Mr 14 '42
Single-phase a-c electric locomotives on the Pennsylvania railroad; protection and tonnage rating. H. C. Griffith. bibliog il diags Elec Eng 61:Trans 224-8 Ap '42
Strong rail bond yielding 3.9%; Pennsylvania co. secured 4s, 1963. M. Pescatello. Barron's 22:19 Jl 20 '42
Substitution of equipment under Equipment trust of 1941. Comm & Fin Chr 156:436 Ag 3 '42

PENNSYLVANIA Turnpike. See Roads—Pennsylvania

PENNSYLVANIAN period. See Geology, Stratigraphic—Pennsylvanian

PENROSE medal
Award of the Penrose medal of the Geological society of America to Norman Levi Bowen. Science 94:458 N 14 '41
N. L. Bowen receives Penrose medal. bibliog Am Cer Soc J (Bul) 21:4 Ja 15 '42
Presentation of the Penrose medal to Norman Levi Bowen. Geol Soc Proc 1941:79-87 Mr '42

PENSION trusts
Actuaries discuss pension trusts. Nat Underw (Life ed) 45:3 N 14 '41
Big pension trust case written for $4,000,000. Weekly Underw 147:696 S 19 '42
Changes in United States tax bill threaten pension trusts. R. F. Spindell. Nat Underw (Life ed) 46:8 Ag 14 '42
Drafting pension trusts. W. B. Hubbell. Trusts & Estates 74:69-70 Ja '42
Employee pension trusts; opportunities for service and profit for trustees. G. W. Hobbs, 3d. Trusts & Estates 74:169-73 F '42; Abstract. Comm & Fin Chr 155:676 F 12 '42
Employees' trusts under the new tax bill; enactment would compel discontinuance and liquidation. P. G. Evans. Trusts & Estates 75:151-3 Ag '42
Expanding use of pension trusts; advantages and disadvantages; abstracts. O. W. Perrin. East Underw 42:3+ N 28 '41; Nat Underw (Life ed) 45:2+ N 28 '41
Good and bad sides of trying pension trusts. A. J. Ostheimer, 3d. Nat Underw (Life ed) 46:2 Mr 20 '42
Government takes a stand on pension abuses. Mag of Wall St 70:452 Ag 8 '42
Hold men—reduce taxes; abstract. C. J. Siegel. Management R 31:139-40 Ap '42
N.A.L.U. leaders make strong tax witnesses. Nat Underw (Life ed) 46:1-2 Ap 17 '42
Need new approach on pension trust plans. D. B. Maduro. East Underw 43:14 My 1 '42
Pension trust developments. D. B. Maduro. Trusts & Estates 74:493-4 My '42
Pension trust talk to bar association tax section. D. Marks. East Underw 43:10 Ap 10 '42
Pension trust tax proposals analyzed; Washington hearing. M. M. Goldstein. East Underw 43:3+ Ap 24 '42; Abstract. Trusts & Estates 74:387-92 Ap '42
Pension trusts. J. B. Lowe and J. D. Wright. Banking 34:45-7 Ja '42
Private pension trusts. F. P. McKenzie. East Underw 42:38+ D 12 '41; Excerpt. Management R 31:176-7 My '42
SEC control over pension funds? Trusts & Estates 73:640 D '41
Senate finance committee restores $40,000 exemption; liberalize House pension trust provisions. Nat Underw (Life ed) 46:1+ S 18 '42
Tax problems of pension and profit-sharing plans; abstract. G. F. Brewer. Management R 31:213-14 Je '42
Treasury views on pension trust tax. R. E. Paul. East Underw 43:5 Ap 3 '42
Treasury's pension trust tax plans opposed; abstract of Philadelphia talk. M. M. Goldstein. Nat Underw (Life ed) 46:1 Ap 24 '42

PENSION trusts—*Continued*
Wage ceiling fear boosting sale of pension trusts. Nat Underw (Life ed) 46:2 Jl 31 '42

PENSIONS
Rise in British pension rates; old age and widows' pensions. Monthly Labor R 55:744 O '42
See also
Annuities
Civil service pensions
Congressmen—Pensions
Old age pensions
Pensions, Industrial

PENSIONS, Industrial
Bank employees' retirement fund; Chicago title and trust company. P. P. Pullen. Burroughs Clearing House 26:14-16+ Je '42
Employe pension plans explained to bankers. G. W. Hobbs, 3d. East Underw 43:4 F 13 '42
New retirement plan written by Equitable for Consolidated Aircraft. East Underw 42:11 N 21 '41
N.Y. state bankers retirement system. Comm & Fin Chr 154:1234 N 27 '41
Pension and profit sharing plans; situation today and its advantages to the agent. R. Stever. Ins Field (Life ed) 71:16, 19-20 Ap 17 '42
Savings plan to aid workers when defense boom ends; United aircraft corporation. Am Business 11:17+ D '41
Study of pension and other employees trusts. 56p pa $2.50 Insurance research and review service, Indianapolis '41
See also
Insurance, Life—Agents—Pensions
Pension trusts
Railroads—Pensions

PENSIONS, Military
Army woman's handbook. C. R. Collins. 203p $1.25 McGraw-Hill '42
Disabled; state assistance for soldiers. Economist 142:249 F 21 '42
United States pension and compensation payments. H. Malisoff. Int Labour R 46:569-77 N '42

PENSIONS, Old age. See Old age pensions

PENSTOCKS
Fabrication and installation practices in building the Shasta penstocks. H. W. Young. il diags Steel 111:72-4+ Ag 10 '42
Hydrostatic tests for Shasta Dam penstocks; illustrations. Eng N 128:512-13 Ap 2 '42
Shasta and Keswick dams. H. W. Young. il Comp Air M 47:6778-9 Jl '42
Valve closure assured if penstock fails; Pacific gas & electric company hydro plants. E. A. Crellin. il diag Elec W 118:928-9 S 19 '42
Welding and testing Shasta penstocks. G. L. Yetter. il Eng N 128:542-5 Ap 9 '42

PENTABROMOACETONE
Determination of citric acid in pure solutions and in milk by the pentabromoacetone method. E. F. Deysher and G. E. Holm. bibliog Ind & Eng Chem Anal ed 14:4-7 Ja 15 '42

PENTABROMOROSANILINE
Microestimation of bromide as pentabromorosaniline. W. J. Turner. bibliog Ind & Eng Chem Anal ed 14:599-600 Jl 15 '42

PENTACENEQUINONE
Action of Grignard reagents on certain pentacenequinones, 6,13-diphenylpentacene. C. F. H. Allen and A. Bell. bibliog Am Chem Soc J 64:1253-60 Je '42

PENTACHLOROPHENOL
Pentachlorphenol substituted for creosote; Southern California Edison co. devises preservative treatment for western red cedar poles. F. B. Doolittle. il Elec West 89:58-61 O '42
Preservation of pine poles, fir crossarms. Elec W 117:104+ Ja 10 '42
Preservative treatment of wood with pentachlorphenol. D. Chapman. Edison Elec Inst Bul 10:57-8 F '42
Spectrophotometric estimation of pentachlorophenol in tissues and water. W. Deichmann and L. J. Schafer. diag Ind & Eng Chem Anal ed 14:310-12 Ap 15 '42
Toxicity of sodium pentachlorophenate and pentachlorophenol to fish. C. J. Goodnight. bibliog Ind & Eng Chem 34:868-72 Jl '42

PENTAERYTHRITOL
Amino-derivatives of pentaerythritol; the formation and thermal decomposition of some quaternary salts of tetrakisdimethylaminomethylmethane. G. M. Gibson and F. G. Mann. Chem Soc J p175-81 F '42
Amino-derivatives of pentaerythritol; the thermal decomposition of the tetrahydrochlorides of tetrakismethylaminomethylmethane and of tetrakisdimethylaminomethylmethane. G. M. Gibson and others. Chem Soc J p163-75 F '42

PENTAERYTHRITOL tetranitrate
Seismic shooting near power lines; the use of Primacord detonating fuse reduces hazards. R. L. Klotz, jr. il diags Explosives Eng 20:108-12 Ap '42

PENTAHYDROXYBENZENE
Derivatives of pentahydroxybenzene, and a synthesis of pedicellin. W. Baker. Chem Soc J p662-70 O '41

PENTAMETHYLENE sulfide. See Tetrahydrothiopyran

PENTANE
Effect of pressure on enthalpy of pentane, heptane, and isooctane. E. R. Gilliland and M. D. Parekh. bibliog Ind & Eng Chem 34:360-2 Mr '42
Phase equilibria in hydrocarbon systems; thermodynamic properties of *n*-pentane. B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:730-7 Je '42
Phase equilibria in hydrocarbon systems; volumetric and phase behavior of methane-*n*-pentane system. B. H. Sage and others. bibliog Ind & Eng Chem 34:1108-17 S '42

PENTANOL. See Amyl alcohol

PENTAPHENYLETHANE
Divalent nitrogen; the action of nitric oxide on pentaphenylethane. H. Sonneborn, 3d and F. Y. Wiselogle. bibliog Am Chem Soc J 64:860-8 Ap '42

PENTENE
Isomerization equilibrium among the branched chain pentenes. R. H. Ewell and P. E. Hardy. diags Am Chem Soc J 63:3460-5 D '41
Replacing butylenes with pentylenes for alkylates. W. L. Nelson. Oil & Gas J 41:53 S 10 '42

PENTOBARBITAL
Derivatives of amytal, pentobarbital, and dial; an optical crystallographic study. M. E. Hultquist, C. F. Poe and N. F. Witt. Ind & Eng Chem Anal ed 14:219 Mr 15 '42

PENTOSES
Recent progress in the chemistry of the pectic materials and plant gums. E. L. Hirst. Chem Soc J p70-8 F '42

PENTYNE
Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

PEOPLES gas light and coke company
Income account, 1938-1941. Comm & Fin Chr 155:606 F 7 '42
Stock offered. Comm & Fin Chr 155:1756 My 4 '42

PEOPLES light and power company
Company proposes to dispose of investment in the Mississippi public service co. Comm & Fin Chr 156:1155 S 28 '42

PEORIA, Illinois

Bridges

Underground water supply complicates bridge pier construction. W. H. Townsend. il diags map Eng N 128:495-7 Mr 26 '42

PEPPER
Netherlands Indies pepper. For Comm W 5:29 D 13 '41; 6:22 F 28 '42

PEPPER war benefits bill. See World war, 1939—Compensation of war victims

PEPPERMINT oil

Economic analysis of the production of peppermint and spearmint oils in Indiana. M. G. Smith and L. Robertson. (Bul. 459) 31p Purdue univ, Agricultural experiment station, Lafayette, Ind. '41

Analysis

Analysis of peppermint oil. L. H. Baldinger. bibliog Ind & Eng Chem Anal ed 14:15-20 Ja 15 '42

Determination of menthol in oil of peppermint; acetyl chloride as a reagent. B. E. Christensen and L. Pennington. Ind & Eng Chem Anal ed 14:54-5 Ja 15 '42

Prices

Mint oil base price calculation by Agriculture dept. due soon; production and prices, 1929-1942. Oil Paint & Drug Rep 142:3+ S 14 '42

PEPPERS

Jamaican exports of pimento, 1940 and 1941. For Comm W 7:22-3 My 9 '42

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:15-17 '41

PEPSI-COLA company

Litigation ended amicably between company and Coca-Cola co. Comm & Fin Chr 155: 2093 Je 1 '42

Nickel, nickel, nickel; the fulsome, fantastic story of the rise of Pepsi-Cola. A. J. Stewart. il Adv & Sell 35:13-15+ S '42

PEPSIN

Pepsitensin, a hypertensinlike substance produced by peptic digestion of proteins. H. Croxatto and R. Croxatto. bibliog Science 95:101-2 Ja 23 '42

Production of a pressor substance from serum globulin by action of pepsin. C. J. Weber, R. H. Major and D. Lobb. Science 96:44-5 Jl 10 '42

Ultracentrifugal analysis of pepsin-treated serum globulins. M. L. Petermann. bibliog J Phys Chem 46:183-91 Ja '42

PEPTIC ulcers. See Stomach—Diseases

PEPTIDES

Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

Some diamino peptides. R. Baltzly, W. S. Ide and J. S. Buck. Am Chem Soc J 64: 2231 S '42

PERBUNAN. See Rubber, Artificial

PER CENT (term)

Per cent. F. B. Moreland. Science 96:61 Jl 17 '42

PERCHLORATES

Chromic acid anodic baths; interpretation of glass electrode measurements. W. H. Hartford. bibliog il Ind & Eng Chem 34: 920-4 Ag '42; Same. Metal Finishing 40: 527-31 O '42

PERCHLORETHYLENE. See Tetrachloroethylene

PERCHLORIC acid

Perchloric acid in micro-Kjeldahl digestions. L. F. Wicks and H. I. Firminger. bibliog Ind & Eng Chem Anal ed 14:760-2 S 15 '42

Rapid method for determining potassium in plant material; perchloric acid digestion and chloroplatinic acid precipitation. J. L. St John and M. C. Midgley. bibliog Ind & Eng Chem Anal ed 14:301-2 Ap 15 '42

Solubility of stannous oxide in perchloric acid. M. Gorman and P. A. Leighton. Am Chem Soc J 64:719-20 Mr '42

PERE MARQUETTE railway

Auto conversion hits Pere Marquette. A. Jansen. Barron's 22:19 Mr 30 '42

Equipment trust certificates. Comm & Fin Chr 155:2285; 156:165 Je 15, Jl 13 '42

Pere Marquette has rehabilitated its Canadian division. diag plan map Ry Age 113: 340-3, 369-71 Ag 29-S 5 '42

PERFUMERY

Bermuda perfume business suspends. For Comm W 8:24-5 S 12 '42

Perfume and cosmetic industry in wartime in England. W. Carsch. Oil Paint & Drug Rep 141:7+ Ap 27 '42

Perfumes, cosmetics and soaps; with special reference to synthetics. W. A. Poucher. 3v v 1 5th ed; v2-3 6th ed 459p; 430p; 234p v 1-2 ea $8; v3 $7 Van Nostrand '42

Perfuming materials. W. F. Reis. il Soap & San Chem 18:25-7+ N '42

Plastics competition award to Excitement, inc., div., Eisenberg & sons; perfume container. il Mod Plastics 19:130-1 N '41

Synthetic aromatics output, 1941; compared with 1940; tabulation. Oil Paint & Drug Rep 142:50 S 28 '42

PERHYDRODIPHENIC acid

Stereochemistry of catalytic hydrogenation; optically active perhydrodiphenic acids; a proof of the configuration of the backbone. R. P. Linstead and W. E. Doering. Am Chem Soc J 64:2003-6 S '42

Stereochemistry of catalytic hydrogenation; the assignment of *cis-* and *trans*-configurations. R. P. Linstead, S. B. Davis and R. R. Whetstone. Am Chem Soc J 64:2009-14 S '42

Stereochemistry of catalytic hydrogenation; the preparation of the six inactive perhydrodiphenic acids. R. P. Linstead and W. E. Doering. bibliog Am Chem Soc J 64: 1991-2003 S '42

PERICLASE

Conversion of magnesite to periclase. B. L. Bailey. Electrochem Soc Trans 81 (preprint 28):423-9 Ap '42

PERINAPHTHANE

Reactions of perinaphthane derivatives. L. F. Fieser and L. W. Newton. bibliog Am Chem Soc J 64:917-21 Ap '42

PERIODATES

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

Kinetics of the periodate oxidation of 1,2-glycols; ethylene glycol, pinacol and *cis*- and *trans*-cyclohexene glycols. C. C. Price and M. Knell. Am Chem Soc J 64:552-4 Mr '42

Probable structure of a crystalline substance derived from starches oxidized with periodate. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:585-8 Mr '42

Reaction between periodate oxidized starch and methanol containing hydrogen chloride. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:589-93 Mr '42

Analysis

Ozone as an analytical reagent; determination of iodides. H. H. Willard and L. L. Merritt, jr. Ind & Eng Chem Anal ed 14: 489-90 Je 15 '42

PERIODIC acid

Oxidation of cellulose; the reaction of cellulose with periodic acid. H. A. Rutherford and others. bibliog Am Dyestuff Rep 31: 399-400, 412-15 Ag 17 '42; Same. J Research Nat Bur Stand 29:131-41 Ag '42

Periodic acid as a test for the constitution of polysaccharides. V. C. Barry, T. Dillon and W. McGettrick. Chem Soc J p183-5 F '42

PERIODIC system

Completion of the periodic system; abstract. F. A. Paneth. Chem & Ind 61:61-2 Ja 31 '42

Quantum numbers and the periodic table. T. H. Hazlehurst. bibliog J Chem Educ 18: 580-1 D '41

Suggested revision of the position of thorium in the fourth period of the periodic table. G. E. Villar. J Chem Educ 19:329-30 Jl '42

Suggested revision of the seventh period of the periodic table. G. E. Villar. J Chem Educ 19:286 Je '42

PERIODICALS

Glorifying shelter; home magazines' successes in popular field. Business Week p88-90 D 6 '41

Periodicals for libraries in war areas. J. R. Russell. Library Journal 67:650-3 Ag '42

PERIODICALS—*Continued*

Subscriptions to American periodicals; problem of foreign exchange. Economist 141:599 N 15 '41

See also

Advertising mediums —Periodicals
Army newspapers
Audit bureau of circulations
Employees' magazines
House organs
Insurance—Periodicals
Newspapers
Science—Periodicals
Trade journals

Bibliography

American labor press; an annotated directory. 120p $2 Am. council on public affairs, Washington, D.C. '40

Births and deaths; a record of new titles, changed titles, and deaths in the periodical world. Published in Bulletin of bibliography

Distribution of scholarly journals of the United States in Latin Amerca. W. C. Haygood, M. E. Brindley and R. O. Rivera. 30p pa 50c Am. lib. assn, Chicago '42

List of American learned journals devoted to the humanities and social sciences. D. H. Daugherty, comp. (Bul. 30) 58p pa 25c Am. council of learned societies, 907 15th st., Washington, D.C. '40

New periodicals. Published in monthly numbers of New York public library bulletin

See also

Periodicals—Latin America

Union lists

Union list of serials in certain Denver libraries. M. J. Schwab. 496p Univ. of Denver, Denver '42

Circulation

Distribution of scholarly journals of the United States in Latin America. W. C. Haygood, M. E. Brindley and R. O. Rivera. 30p pa 50c Am. lib. assn, Chicago '42

Covers

Department stores display flag covers. East Underw 43:3 Jl 10 '42

Editorials

How size of editorial section affects ratings of ads. J. F. Kurie. Adv & Sell 35:28 Ap '42

Indexes

Annual magazine subject-index, 1941; including as part II, the Dramatic index, 1941. M. E. Bates and A. C. Sutherland, eds. 301p, 268p, 102p $15 F. W. Faxon co, Boston '42

Art index, October 1938-September 1941. 1297p Wilson, H.W. '41

Art index, October 1941-September 1942. 399p Wilson, H.W. '42

Brief subject and author index of papers in the Proceedings, 1847-1941 and in the Journal, March 1939-March 1942. 182p Institution of mechanical engineers, Storey's Gate, St. James's park, London, S.W. 1 '42

Bulletin of the Public affairs information service, 27th annual cumulation, 1941. M. E. Furbeck and M. Mellinger, eds. 892p Public affairs information service, New York '41

Catholic periodical index; a cumulative author and subject index to a selected list of Catholic periodicals, Jan. 1941-June 1942. L. A. Leavey, ed. 470p Pub. for the Catholic library assn. by Wilson, H.W. '42

Education index, July 1941-June 1942. 834p Wilson, H.W. '42

Index to New Zealand periodicals. Published quarterly by New Zealand lib. assn, box 1529, Wellington, C 1

International index to periodicals; twenty-ninth annual cumulation, April 1941-March 1942. 925p Wilson, H.W. '42

Quarterly cumulative index medicus, v.30, July-December, 1941. 1111p Am. medical assn, 535 N. Dearborn st, Chicago '41

Quarterly cumulative index medicus, v.31, January-June, 1942. 933p Am. medical assn, 535 N. Dearborn st, Chicago '42

Readers' guide to periodical literature, an author and subject index, July 1941-June 1942. 1294p Wilson, H.W. '42

Subject index to the Monthly labor review, volumes 1 to 11, July 1915 to December 1920. U S Bur Labor Statistics Bul 695:1-176; pa 20c Supt. of doc. '41

See also Current list of medical literature

Prices

Magazine payments and Canadian price ceiling law. Business Week p40-1 Ap 11 '42

Saturday evening post and Liberty magazine double price; nickel publications now dime. Comm & Fin Chr 155:1041 Mr 12 '42

Reader interest

Better sampler; Magazine marketing service tries out testing answers against census data. Business Week p48+ My 2 '42

Controlled techniques for magazine audience measurement. D. B. Lucas. il Adv & Sell 35:16-17, 114+ N '42

Cost of getting readers for full-, half-, and bleed-pages. E. L. Deckinger. Adv & Sell 35:25-6 Mr '42

Daily newspaper and its competitors; magazine and radio. P. F. Lazarsfeld. Ann Am Acad 219:32-43 Ja '42

Size

On turning over a new—and larger—leaf. Ptr Ink 197:9-11 D 26 '41

Use in teaching

Metal progress in high schools. E. G. Mahin. Metal Prog 42:397 S '42

Germany

List of German periodicals received by the Library of Congress in 1941. 34p Library of Congress, Periodicals division, Washington, D.C. '41

Latin America

Latin American journals dealing with the social sciences and auxiliary disciplines. E. Lassalle, comp. 73 numb l Division of intellectual cooperation, Pan American union, Washington, D.C. '41

Latin American periodicals current in the Library of Congress. M. M. Wise and others. preliminary ed 137 numb l bibliog(pix-xv) Hispanic foundation, Lib. of Congress, Washington '41

PERIODICALS, Comic

Superman scores; comic magazines become big business. Business Week p54-6 Ap 18 '42

PERIODICALS, Pictorial

See also

Periodicals, Comic

PERITONITIS

Sulfa drug and peritonitis. Science 95:sup7-8 Ja 30 '42

PERKIN medal

List of medalists from the date of founding, 1906 to 1942. Ind & Eng Chem 34:253 F '42

PERKINS, Milo Randolph, 1900-

Portrait. Business Week p82 N 15 '41

PERLITE

New insulating material. Comp Air M 47:6694 Mr '42

PERMALLOY

Increase of residual magnetism caused by a current flowing through an iron bar. H. A. Perkins and H. D. Doolittle. diag Phys R 60:811-17 D 1 '41

Magnetic materials for electrical indicating instruments. A. J. Corson. bibliog il diags Gen Elec R 45:573-5 O '42

New magnetic materials. W. E. Ruder. bibliog Inst Radio Eng Proc 30:437-40 O '42

PERMANENT molds. See Molds (for casting) —Permanent molds

PERMANENT science fund. See Scientific research

PERMANGANATE number
Some refinements in permanganate number test methods. C. L. Smith. Paper Ind 24: 603 S '42

PERMANGANATES
See also
Potassium permanganate

PERMEABILITY
Criticism of the Teorell-Meyer-Sievers theory of membrane permeability. E. S. Fetcher, jr. bibliog J Phys Chem 46:570-4 My '42
Methods for determining permeability of water-bearing materials, with special reference to discharging-well methods. L. K. Wenzel. diags U S Geol S Water-supply Pa 887:1-192, pl 1-6; pa 60c Supt. of doc. '42
Relation of permeability and specific gravity of insulating refractories. P. G. Herold, L. Stearns, and W. J. Smothers. diag Mo U Sch Mines & Met Bul tech ser v 14 no 4: 1-51 '42
Study of the grindability of coal and the fineness of pulverized coal when using the Lea-Nurse air permeability method for evaluating the subsieve fractions. J. B. Romer. bibliog diag Am Soc T M Proc 41: 1152-66; Discussion. 1167-71 '41
See also
Bricks—Permeability
Building materials—Permeability
Soil permeability
Textile fabrics—Permeability

Bibliography

Bibliography on permeability and laminar flow. V. C. Fishel. In U S Geol S Water-supply Pa 887:20-50 '42

PERMEABILITY, Magnetic. See Magnetic permeability

PERMEABILITY of soil. See Soil permeability

PERMIAN fossils. See Paleobotany—Permian; Paleontology—Permian

PERMIAN period. See Geology, Stratigraphic—Permian

PEROXIDES
Addition polymerization catalyzed by substituted acyl peroxides. C. C. Price, R. W. Kell and E. Krebs. bibliog Am Chem Soc J 64:1103-6 My '42
Alkylation of para quinones with acyl peroxides. L. F. Fieser and A. E. Oxford. bibliog Am Chem Soc J 64:2060-5 S '42
Carboxylation; the peroxide-catalyzed reaction of oxalyl chloride with the side-chains of aralkyl hydrocarbons; a preliminary study of the relative reactivity of free radicals. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:1621-4 Jl '42
Carboxylation; the photochemical and peroxide-catalyzed reactions of oxalyl chloride with paraffin hydrocarbons. M. S. Kharasch and H. C. Brown. bibliog Am Chem Soc J 64:329-33 F '42
Catalysts for peroxide decomposition. M. Bobtelsky and A. E. Simchen. Am Chem Soc J 64:2492-8 O '42
Methyl methacrylate polymerization; peroxide catalysis and the oxidation of hydroquinine inhibitor. H. N. Alyea, J. J. Gartland, jr. and H. R. Graham, jr. Ind & Eng Chem 34:458-60 Ap '42
Peroxides derived from η-aldehydo-octoic acid and nonaldehyde; bis-α-hydroxy-ω-carboxyoctyl peroxide and bis-α-hydroxynonyl peroxide. G. King. Chem Soc J p218-20 Mr '42
Production of atomic iodine in the reaction of peroxides with iodide ion. H. Taube. bibliog Am Chem Soc J 64:161-4 Ja '42
See also
Hydrogen peroxide

PERPETUITIES
Codification of rule against perpetuities. W. F. Bruell. Trusts & Estates 74:104 Ja '42
Rule against perpetuities. J. C. Gray. 4th ed 895p $12.50 Little '42

PERRHENATES
Polarographic investigation of rhenium compounds; reduction of perrhenate ion at the dropping mercury electrode. J. J. Lingane. bibliog Am Chem Soc J 64:1001-7 Ap '42

PERRIN, Ed
President of the In-law club. W. Chenery. por Adv & Sell 35:38, 40 Mr '42

PERRY, Matthew Calbraith, 1794-1858
America's Asiatic Pandora; Commodore M. C. Perry took the lid off Japan. por Fortune 26:100-1 Ag '42

PERSIA
Middle East. il Fortune 25:170+ F '42
Modern Iran. L. P. Elwell-Sutton. 234p bibliog (p229) 12s 6d Routledge '41
See also
World war, 1939— Persia

Commerce

Iran's trade position difficult, lend-lease aid timely. S. Goldberg. il For Comm W 7:9+ Je 13 '42

Economic conditions

News by countries. For Comm W 6:16-17 F 14 '42
Persian economy. Economist 142:187 F 7 '42

PERSIAN berry extract. See Dyes and dyeing—Natural dyes

PERSIAN lambskin. See Karakul sheep

PERSIMMONS
Vitamin C content of persimmon leaves and fruits. C. G. Vinson and F. B. Cross. Science 96:430-1 N 6 '42

PERSONAL injuries
Release and mistake; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7: 30-2 F 19 '42

PERSONAL property
Cases and other materials on the law of personal property. H. A. Bigelow and W. L. Eckhardt. 3d ed 507p $5 West '42

PERSONAL property floater. See Insurance, Inland marine—Personal property floater

PERSONALITY
Absorbing adventure in tackling the intangibles of personality. E. D. Ayres. J Eng Educ 32:538-41 Mr '42
Foundations for a science of personality. A. Angyal. 398p $2.25 Commonwealth fund, New York '41
How to improve your personality. R. Newton. 205p bibliog(p 177-96) $1.75 McGraw-Hill '42
It's all in your mind; how to get what you want out of life. J. A. Kiss. 256p $2 Reilly and Lee co, Chicago '41
Laws and men in labor relations. A. H. Myers. Harvard Business R 21 no 1:83-94 [S] '42
Making the most of your personality. W. V. Richmond. 247p $1.75 Farrar '42
Neurotic personality. W. W. Young. Ind Med 11:494-5 O '42
Psychological racketeers. F. H. Kirkpatrick. Personnel J 20:283-6 F '42
Studies in personality. 333p bibliog(p315-33) $3.50 McGraw-Hill '42
Understanding myself. R. E. Dickerson. 180p $2 Association press, 347 Madison av, New York '42
Why be shy? how to banish self-consciousness and develop confidence. L. E. Bisch. 265p $2 Simon & Schuster '41

PERSONALITY, Disorders of
Personality and mental illness; an essay in psychiatric diagnosis. J. Bowlby. 280p bibliog(p269-72) $2.75 Emerson books, New York '42

PERSONALITY tests
Humm-Wadsworth temperament scale in job placement at Lockheed-Vega. F. E. Poole. Ind Med 11:260-3 Je '42
Observation and testing. A. W. Smith. Personnel J 21:175-9 N '42

PERSONNEL departments. See Employment departments

PERSONNEL executives. See Employment managers

PERSONNEL service in education

Employment problems of college students. S. C. Newman. 158p bibliog(p139-58) $3 Am. council on public affairs, 2153 Florida av, Washington, D.C. '42

Group methods of studying occupations; a revision of Teaching about vocational life. M. E. L. Billings. 2d ed 513p $3 International textbook co, Scranton, Pa. '41

Guidance methods for teachers in homeroom, classroom, core program. C. C. Dunsmoor and L. M. Miller. 382p $2.50 International textbook co, Scranton, Pa. '42

Student personnel problems; a study of new students and personnel services. C. G. Wrenn and R. Bell. 235p bibliog(p197-205) $2 Farrar '42

See also Engineering colleges—Personnel service

PERSPECTIVE

Handbook of perspective drawing. J. C. Morehead and J. C. Morehead, jr. 166p $4.50 James C. Morehead, 4815 Bayard st, Pittsburgh '41

PERSPIRATION

Action of sweat on dyed cotton goods. F. Jordinson. Textile Col 63:628+ N '41

Rust proofing of machined steel; prevention of corrosion from perspiration of operator's hands. J. A. Stifter. Metal Finishing 40:262-3 My '42

PERSUASION (rhetoric)

Psychology of persuasive speech. R. T. Oliver. 389p $2.75 Longmans '42

PERSULFATES

Dielectric and solvent effects upon the iodide-persulfate reaction. E. S. Amis and J. E. Potts, jr. bibliog Am Chem Soc J 63:2883-8 N '41

Persulphate-iodide reaction; the critical increment, and the catalysed reaction in the presence of neutral salts. W. J. Howells. Chem Soc J p641-5 O '41

Persulphate test with luminol and luminescence inductions with sulphurous acid. A. Steigmann. Soc Chem Ind J 61:68 Ap '42

Photolysis of persulfate. L. J. Heidt. bibliog J Chem Phys 10:297-302 My '42

PERU

Hails agreement on Ecuador-Peru frontier. S. Welles. Comm & Fin Chr 155:1043 Mr 12 '42

See also

Budget—Peru
Cotton trade—Peru
Electric apparatus industry—Peru
Insurance, Social—Peru
Mercury mines and mining—Peru
Mines and mineral resources—Peru
Petroleum industry and trade—Peru
Steel works—Peru
Tariff—Peru

Antiquities

Chavin stone carving. W. C. Bennett. 9p bibliog(p6) pa $1 Yale univ. press '42

Commerce

Peru in 1941. H. S. Giusta and C. Corliss. For Comm W 6:10-11 Mr 28 '42

Economic conditions

News by countries (cont). For Comm W 7: 16-17 Ap 25; 19-20 Je 27; 9:19-20 O 24 '42

Peru in 1941. H. S. Giusta and C. Corliss. il For Comm W 6:3-5+ Mr 21; 10-11 Mr 28 '42

Foreign relations

United States

Peruvian president completes state visit. Comm & Fin Chr 155:1952 My 21 '42

Industries and resources

Peruvian flax industry; abstract. B. B. Robinson. Science 95:sup9-10 F 20 '42

Trans-Andean highway links Amazon. E. W. James. il map For Comm W 8:8-10 Ag 8 '42

PERVITIN

Effect of pervitin (desoxyephedrine) on fatigue of the central nervous system. E. Simonson and N. Enzer. bibliog J Ind Hygiene 24:205-9 S '42

PEST control preparations

Canada's Pest control act. Soap & San Chem 18:107, 109+ F '42

PESTS

See also

Household pests
Insects, Injurious and beneficial
Rats

PET milk company

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 Ja 19 '42

Preferred stock offered. Comm & Fin Chr 155:1415 Ap 6 '42

PETAIN, Henri Philippe, 1856-

Four nations interested in policy; Marshal Petain's annuity. East Underw 42:19+ D 12 '41

PETERBOROUGH, Ontario

Water supply

Meeting abnormal increased water consumption. J. Harrison. Water & Sewage 80:87-8 Ap '42

PETERS, William John, 1863-1942

Sketch. J. A. Fleming. Science 96:127-8 Ag 7 '42

PETRI dishes

New Petri dish cover and technique for use in the cultivation of anaerobes and microaerophiles. J. H. Brewer. diag Science 95: 587 Je 5 '42

Petri dish holder for mechanical stages. W. H. Weston. diags Science 95:415-16 Ap 17 '42

PETRILLO, James Caesar, 1892-

NAB vs Petrillo: innocent stand-by gets hurt. B. B. Smith. Adv & Sell 35:18, 82-3 N '42

Petrillo extends recording ban. Ptr Ink 200: 59 S 11 '42

Tackling Petrillo; Arnold accuses musicians of conspiracy. Business Week p40-1 Ag 8 '42

PETROGRAPHY. See Rocks

PETROLEUM

Amount of oil taken up by sand; abstract. E. Kasner. Science 96:sup10 O 16 '42

Annual reviews of petroleum technology; vol. 6 (covering 1940). F. H. Garner, ed. 318p pa $2.50 Inst. of petroleum, c.o. Univ. of Birmingham, Edgbaston, Birmingham, Eng. '41

Crude selection important in 100-octane fuel production; oils that contain high-octane naphtha, by fields. W. L. Nelson. bibliog Oil & Gas J 40:14-15 Ja 1 '42

Density of oil-field liquids. G. M. Stearns. Oil & Gas J 40:237 Mr 26 '42

Gains in oil and gas production refining and utilization technology. H. C. Miller and G. B. Shea. 39p U. S. Nat resources planning board; 15c Supt. of doc. '41

Oil receives attention at scientists' meeting; abstracts of petroleum papers at meeting of the American association for the advancement of science. Oil & Gas J 40:19 Ja 8 '42

Proceedings of the tenth Pennsylvania mineral industries conference, Petroleum and natural gas section, held at the Pennsylvania state college, May 2-3, 1941. (Mineral industries exp. station bul. 33) 116p Pennsylvania state college, School of mineral industries, State College, Pa. '41

See also

Bituminous materials
Gas, Natural
Gasoline
Kerosene
Liquefied petroleum gas
Liquid fuel
Oil flow
Oil fuel
Oil lands
Oil shales
Petroleum distillation and other headings beginning Petroleum

also American institute of mining and metallurgical engineers—Petroleum division

PETROLEUM—*Continued*

Acidation of wells

Acidizing oil wells by air pressure. diag Comp Air M 47:6742 My '42

Chemical reconditioning of old wells; acid jet gun has many applications. J. H. Adkison. il diags Pet Eng 13:156, 158, 160+ My '42

Mud acid is widely used in Gulf Coast wells. S. C. Morian. il Oil & Gas J 41:111+ Je 25 '42

Specific application of acid jet gun; employed to remove cement from tubing. J. H. Adkison. il diag Pet Eng 13:112, 114 S '42

Strong acid gives encouraging results in west Texas wells. H. F. Simons. Oil & Gas J 41:37-8 Ag 13 '42

Weak acid gives good results in north central Texas wells. H. F. Simons. Oil & Gas J 41:37-8 Ag 27 '42

Analysis

Analysis of crude oils from some fields of Oklahoma. E. L. Garton. U S Bur Mines Rep of Invest 3592:1-27 '41

Application of spectroscopy in the petroleum industry. J. R. Nielsen. bibliog Oil & Gas J 40:34, 36-7, 39 Ja 22 '42

Characteristics of California crude oils. R. C. Mithoff, G. R. MacPherson and F. Sipos. il diags Am Pet Inst Proc 22(3):25-37 '41; Same. Oil & Gas J 40:81-2, 85+ N 6 '41

Cracking oil from Arabia gives high gasoline yield. D. Read, jr. and G. Egloff. Oil & Gas J 40:156, 159 D 25 '41

Determination of salts in crude oil. C. A. Neilson, J. S. Hume and B. H. Lincoln. Ind & Eng Chem Anal ed 14:464-5 Je 15 '42

Determination of types of sulfur compounds in petroleum distillates. J. S. Ball. U S Bur Mines Rep of Invest 3591:1-60 bibliog(88 titles, p55-60) '41

Laboratory analysis of Midway field crude. Oil & Gas J 40:55 F 19 '42

Photomicroscopy of salt in petroleum. L. F. Christianson and J. W. Horne. bibliog il U S Bur Mines Tech Pa 638:1-56; pa 25c Supt. of doc. '42; Abstract. Nat Pet N 34 pt 2:R333-6 S 30 '42

Separation and characterization of carotenoid pigments produced from mineral oil by bacteria. H. F. Haas, L. D. Bushnell and W. J. Peterson. bibliog Science 95:631-2 Je 19 '42

Bibliography

Abstracts. Published in monthly numbers of Journal of the Institute of petroleum

Chemical treatment of wells

Increase in oil production by application of chemicals. P. E. Fitzgerald. bibliog Oil & Gas J 40:194-6+ Ja 29 '42

Chemistry

American chemical society. Petroleum division, fall meeting, Buffalo, Sept. 7-11; abstracts of papers. Nat Pet N 34 pt 2:R318-20, R322 S 30 '42; Oil & Gas J 41:54-7 S 10 '42

Are we on the threshold of a petroleum chemical industry? W. L. Nelson. il Oil & Gas J 40:85+ Mr 26 '42

Catalytic chemistry in World war II; developments centre in petroleum technology. H. S. Taylor. Can Chem & Process Ind 26:339-40 Je '42; Abstract. Chem Ind 51:243 Ag '42

Catalytic reactions. H. W. Lohse. bibliog Can Chem & Process Ind 26:302+ My '42

Chemical aspects of synthetic rubber. H. F. Crow. Nat Pet N 34 pt 2:R330, R332 S 30 '42

Chemical technology of petroleum. W. A. Gruse and D. R. Stevens. 2d ed 733p $7.50 McGraw-Hill '42

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:48 Jl 16; 34 Jl 23; 37 Ag 6; 38 Ag 13; 46 Ag 20; 42 Ag 27; 41 S 10; 52 S 17; 211 S 24; 40 O 1; 44 O 8:34 O 15; 51 O 22; 39 O 29; 32 N 5; 233 N 12; 54 N 19 '42

Development of the new chemical industry based upon petroleum. R. H. H. Morley. bibliog Soc Dyers & Col J 58:133-7; Discussion. 137 Jl '42

Developments in petroleum chemistry are discussed; abstracts of papers at annual meeting of the American chemical society, Petroleum division. Oil & Gas J 40:75-6 Ap 30 '42

Diversity of coastal plants invites chemical affiliation. H. S. Norman. il Oil & Gas J 41:170+ Je 25 '42

Glossary of terms used in petroleum chemistry. Oil & Gas J 41:44 Ag 13; 46 Ag 20; 42 Ag 27; 41 S 10; 52 S 17; 211 S 24; 40 O 1; 44 O 8 '42

Growing role of synthesis in supplying vital U. S. war needs from petroleum; abstracts of technical papers, A.C.S. Petroleum division. Nat Pet N 34:R115-16 Ap 15 '42

Halogenation of aliphatic hydrocarbons. G. Egloff and M. Alexander. bibliog Oil & Gas J 41:41-2+ Ag 20; 39-40+ Ag 27; 34-7 S 3; 42+ S 10 '42

Nitration of aliphatic hydrocarbons. G. Egloff, M. Alexander and P. M. Van Arsdell. bibliog Oil & Gas J 41:39-41+ O 15; 49+ O 22 '42

Nitrogen compounds in petroleum distillates; the structure of a $C_{16}H_{25}N$ base from California petroleum. B. Shive and others. bibliog Am Chem Soc J 64:909-12 Ap '42

Optical rotation of petroleum fractions. M. R. Fenske and others. bibliog Ind & Eng Chem 34:638-46 My '42

Oxidation of aliphatic hydrocarbons. G. Egloff, D. V. Nordman and P. M. Van Arsdell. bibliog Oil & Gas J 41:207-10 S 24; 35-6 O 1; 49, 51-3 O 8 '42

Petroleum is plentiful source of raw material for chemicals. L. F. Hatch. Oil & Gas J 40:197-8+ Ja 29 '42

Petroleum; the new basic chemical. M. Pescatello. Barron's 22:25+ S 21 '42

Physical constants of low boiling-point hydrocarbons. R. Matteson and W. S. Hanna. Oil & Gas J 41:33-7 bibliog(121 references, p36-7) My 21 '42

Recent advances of catalysis in chemical process industries; recent applications. bibliog flow sheet Chem & Met Eng 49:106-10 O '42

Rising importance of oil as a source of chemicals revealed; Petroleum division, American chemical society, meeting, Buffalo. Oil & Gas J 41:14-15 S 17 '42

Sulfanilamido derivatives of nitrogen bases from California petroleum. L. M. Schenck and H. R. Henze. bibliog Am Chem Soc J 64:1499-1501 Jl '42

Synthesis and properties of hydrocarbons of high molecular weight. J. N. Cosby and L. H. Sutherland. bibliog il Am Pet Inst Proc 22(3):13-23; Discussion. 24 '41

Synthesis of known hydrocarbons in petroleum. W. L. Faith. bibliog Pet Eng 13:96, 99, 102+ My '42

Trans - 2,2,6 - trimethylcyclohexanecarboxylic acid; a second solid naphthenic acid from California petroleum. B. Shive and others. bibliog Am Chem Soc J 64:385-91 F '42

Wide variety of chemicals made from refinery gases. W. T. Ziegenhain. flow chart il Oil & Gas J 41:185-6+ Je 25 '42

Concessions

See also
Mexico—Expropriation policy

Conservation

Ample availability of U.S. oil was no accident. P. T. Moore. Pet Eng 13:27-30 My '42

Arkansas' oil and gas industry managed on engineering basis. A. M. Crowell. il Pet Eng (Annual no) 13:55-6+ [Jl] '42

Conservation could be improved in half of United States fields. E. De Golyer. Oil & Gas J 40:14 Ap 2 '42

Conservation in production now complicated by new factors; abstract. E. De Golyer. Oil & Gas J 40:26+ F 19 '42

PETROLEUM—Conservation—*Continued*

Note on conservation. E. L. DeGolyer. Pet Eng 13:58-9 Je '42

PCO to last only through emergency. H. Ickes. Nat Pet N 33:30-2 N 12 '41

Saving the oil; benefits from modern practices in production. T. V. Moore. il Tech R 44:124-6+ Ja '42

What constitutes petroleum conservation today; abstract. E. L. DeGolyer. Nat Pet N 34:R68 Mr 4 '42

See also

Petroleum industry and trade—Regulation

Petroleum supply

Cracking

See Petroleum distillation

Dehydration

Design of gun-barrel tanks for oil-water separation. F. B. Gordon. diags Oil & Gas J 40:71 Ap 23 '42

Determining proper heights for boot and siphon on gun barrel. G. M. Stearns. diag Oil & Gas J 40:53 Ap 9 '42

Treating plant for heavy oil production; electric dehydrating units. W. A. Sawdon. flow diag il Pet Eng 14:25-6 O '42

Emulsions

Basic sediment accumulation controls chemical cost. F. B. Peterson. Oil & Gas J 40:51 Ap 9 '42

Cost of treating emulsions. Oil & Gas J 41:213 S 24 '42

Crude-oil emulsions and their electrical resolution; abstract. R. L. Pettefer. Oil & Gas J 41:48 O 22 '42

Reagent feed rate, emulsion composition, net cost relation; monographic charts. L. T. Monson. Oil & Gas J 40:47 Mr 12 '42

Thermo-siphon heater for oil-field use. H. Vance and E. G. Smith. il diags Pet Eng 13:27-30 S; 14:103, 106, 108+ N '42

Viscosity of crude-oil emulsions. W. Woelflin. diag Oil & Gas J 40:35, 37 Mr 19 '42

Evaporation losses

Calculation of profits from gravity conservation. Oil & Gas J 40:31 Mr 5 '42

Design of oil-field tank batteries for conservation. R. M. Stuntz, jr. il diags Mech Eng 64:355-60 My '42

Gas mixtures

Bottom-hole separator conserves reservoir gas pressure. K. Kelley. il diag Pet Eng 13:31-2 S '42

Flow of gas-oil mixtures through media of uniform permeability. P. J. Jones. Oil & Gas J 41:34-5 Jl 2 '42

Flow of gas-oil-water mixtures through media of uniform permeability. P. J. Jones. diags Oil & Gas J 41:25 Jl 9 '42

Recovery from oil reservoirs. P. J. Jones. Oil & Gas J 41:163-4 Jl 30; 39-40 Ag 6 '42

Geology

American association of petroleum geologists 27th annual meeting, Denver; abstracts of papers. Oil & Gas J 40:46+ Ap 23 '42

Basal beds of Salado formation in Fletcher potash core test, near Carlsbad, New Mexico. W. B. Lang. Am Assn Pet Geologists Bul 26:63-79, pl 1-11 Ja '42

Bottom-hole contours show deeper possibilities on Gulf. W. V. Howard. maps Oil & Gas J 41:125-6, 128 Je 25 '42

Classification of oil reservoirs. W. B. Wilson. bibliog Am Assn Pet Geologists Bul 26:1291-2 Jl '42

Cretaceous formations of the South and Southwest. L. W. Stephenson and others. map Oil & Gas J 40:86-7 Ap 23 '42

Criteria for subsurface recognition of unconformities. W. C. Krumbein. Am Assn Pet Geologists Bul 26:36-62 Ja '42

Crocker Flat landslide area, Temblor range, California. R. R. Simonson and M. L. Krueger. bibliog il maps Am Assn Pet Geologists Bul 26:1608-31 O '42

Deposition of free oil by sediments settling in sea water. O. A. Poirier and G. A. Thiel. pls Am Assn Pet Geologists Bul 25:2170-80 D '41

Development of Del Valle oil field; abstract. D. H. Sheldon and R. E. Havenstrite. diag Oil & Gas J 40:43-4 N 13 '41

Drilling shows likely prospects in Brazil. E. De Carvalho. Oil & Gas J 40:154-5 D 25 '41

Geologic distribution of oil in the Illinois basin. B. F. Hake. maps Oil & Gas J 40:63, 65-6 Ap 23 '42

Geologists survey needs for increased discovery rate; report of research committee of the American association of petroleum geologists. W. V. Howard. Oil & Gas J 40:43+ Ap 23 '42

Geology of Del Valle oil field, Los Angeles county, California. L. A. Tarbet. diags map Am Assn Pet Geologists Bul 26:188-96, pl 1-2 F '42

Geology of east-central Alberta. G. S. Hume and C. O. Hage. 101p Canada. Dept. of mines and resources. Ottawa '41

Geology of Honda district, Colombia. J. W. Butler, jr. il diag map Am Assn Pet Geologists Bul 26:793-837 bibliog(p836-7) My '42

Geology of the Kettleman Hills oil field, California; stratigraphy, paleontology, and structure. W. P. Woodring, R. Stewart and R. W. Richards. maps U S Geol S Professional Pa 195:1-170, pl 1-57; pa $1.50 Supt. of doc. '40

Late paleozoic stratigraphy of Gore area, Colorado. K. G. Brill, jr. bibliog diags maps Am Assn Pet Geologists Bul 26:1375-97 Ag '42

Lateral variation in Chester sandstones producing oil and gas in lower Wabash river area, with special reference to New Harmony field, Illinois and Indiana. G. V. Cohee. maps Am Assn Pet Geologists Bul 26:1594-1607 O '42

Magnetometer surveys during 1941. E. L. Tullis. (Geological survey, Report of investigations 42) 40p bibliog(p30) Univ. of South Dakota, Vermillion '42

Marine sedimentation and oil accumulation on Gulf coast; progressive marine overlap. D. S. Malkin and D. A. Jung. diags maps Am Assn Pet Geologists Bul 25:2010-20 N '41

Micropaleontology and what it is doing for the oil geologist; abstract. C. Croneis. Min & Met 23:22 Ja '42

Neutron logs find porous zones in western Kansas limestones. W. L. Russell and R. B. Downing. Oil & Gas J 41:66 Ag 6 '42

New frontiers in micropaleontology, with special reference to petroleum exploration. C. Croneis. bibliog Econ Geol 37:16-38 Ja '42

New interpretation of some laccolithic mountains and its possible bearing on structural traps for oil and gas. C. B. Hunt. bibliog diags Am Assn Pet Geologists Bul 26:197-203 F '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:170-2+ D 25 '41

Non-marine origin of petroleum in North Shensi, and the cretaceous of Szechuan, China. C. H. Pan. bibliog Am Assn Pet Geologists Bul 25:2058-68 N '41

Oil-field waters of Montana plains. J. G. Crawford. diags map Am Assn Pet Geologists Bul 26:1317-74 Ag '42

Oil in the earth. W. E. Pratt. 105p $1 Univ. of Kansas press, Lawrence '42

Oil industry in Alberta. A. W. Farmilo. bibliog il maps Can Min J 63:17-26 Ja '42

Oil well drainage. S. C. Herold. 407p $5 Stanford univ. press '41

Oligocene stratigraphy of East White Point field, San Patricio and Nueces counties, Texas. P. F. Martyn and C. H. Sample. bibliog diags maps Am Assn Pet Geologists Bul 25:1967-2009 N '41

Payton pool, Pecos and Ward counties, Texas. R. E. Gile. maps Am Assn Pet Geologists Bul 26:1632-46 O '42

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26:535-763 Ap '42

PETROLEUM—Geology—*Continued*

Possibility of future discoveries in eastern Colorado. F. N. Bosco. diags maps Oil & Gas J 40:66-8 Ap 16 '42

Principles of sedimentation and the search for stratigraphic traps. W. C. Krumbein. diags maps Econ Geol 36:786-810 D '41

Progress of stratigraphic studies in California. E. R. Atwill. diags Am Assn Pet Geologists Bul 26:153-61, pl 1-4 F '42

Regional geology of Dakota basin. N. Ballard. maps Am Assn Pet Geologists Bul 26: 1557-84 O '42

Report of a conference on the origin of oil. 81p bibliog(p71-81) pa $1 Am. assn. of petroleum geologists, Tulsa, Okla. '41

Role of fundamental geologic principles in the opening of the Illinois basin. A. H. Bell. maps Econ Geol 36:774-85 D '41

Schuler field, Union county, Arkansas. W. B. Weeks and C. W. Alexander. bibliog diags maps Am Assn Pet Geologists Bul 26:1467-1516 S '42

Sealing effect of fault surfaces. G. S. Taitt. diags Inst Pet J 28:109-12 Je '42

Selected deep well records. W. M. Laird, comp. (Geological survey bul. 12) 31p Univ. of North Dakota press, Grand Forks '41

Smackover lime wedge-edge searched for oil deposits. R. Ingram. diag map Oil & Gas J 41:76-8 Ag 27 '42

Society of economic paleontologists and mineralogists; symposium on changes in recent sediments. Oil & Gas J 40:58-9 Ap 23 '42

Source beds of petroleum. P. D. Trask and H. W. Patnode. 566p $4.50 Am. assn. of petroleum geologists, Tulsa, Okla. '42

Stratigraphic type oil fields. A. I. Levorsen and others, eds. 902p $5.50; to members $4.50 Am. assn. of petroleum geologists, Tulsa, Okla. '41

Stratigraphy and insoluble residues of Madison group (Mississippian) of Montana. L. L. Sloss and R. H. Hamblin. bibliog il pls diags map Am Assn Pet Geologists Bul 26:305-35 Mr '42

Stratigraphy of North Dakota. V. H. Kline. bibliog diags maps Am Assn Pet Geologists Bul 26:336-79 Mr '42; Discussion. 26:1414-23 Ag '42

Subsurface geology of Sewell-Eddleman area, Young county, Texas. P. L. Applin and R. F. Imbt. pls diags Am Assn Pet Geologists Bul 26:204-16 F '42

Subsurface study of Ellenburger formation in west Texas. T. Cole. bibliog diags maps Am Assn Pet Geologists Bul 26:1398-1409 Ag '42

Test on Cedar Creek anticline, southeastern Montana. O. A. Seager. Am Assn Pet Geologists Bul 26:861-4 My '42

Trends in petroleum geology. A. I. Levorsen. Econ Geol 36:763-73 D '41

Typical oil-field structures; buried sand bar, Burbank field, Osage county, Oklahoma. maps Oil & Gas J 41:54-5 Ag 20 '42

Typical oil-field structures; complexly faulted dome, Eola field, Avoyelles parish, Louisiana. diag maps Oil & Gas J 41:50-1 My 21 '42

Typical oil-field structures; fault line, Luling and Powell fields, Texas. diags maps Oil & Gas J 41:32b-32c S 17 '42

Typical oil-field structures; massive limestone high, Yates field, Pecos county, Texas. diags map Oil & Gas J 40:48b-48c Ap 23 '42

Typical oil-field structures monocline; Cabin Creek field, Kanawha county, West Virginia. diags maps Oil & Gas J 41:32b-32c S 3 '42

Typical oil-field structures; regular anticlinal fold, Kettleman Hills field, California. diags map Oil & Gas J 41:50-1 Je 4 '42

Typical oil-field structures; salt dome, Esperson and Barbers Hill, coastal Texas. diags map Oil & Gas J 41:42-3 Ag 6 '42

Typical oil-field structures; sedimentation trap; Cut Bank, Montana. diag maps Oil & Gas J 41:34-5 N 5 '42

Typical oil-field structures; truncated faulted anticline, Oklahoma City field, Oklahoma. diags maps Oil & Gas J 40:56B-56C My 7 '42

Typical oil-field structures; truncated shore line, east Texas field, Texas. diags map Oil & Gas J 41:48B-48C O 15 '42

Typical oil-field structures; unconformities; Zenith, Wherry and Hollow-Nikkel fields, Kansas. diags maps Oil & Gas J 41:64b-64c O 1 '42

Viola well core from South Dakota. C. E. Decker. il Am Assn Pet Geologists Bul 26: 123-6 Ja '42

Washburn field, La Salle county, Texas. W. K. Esgen. Am Assn Pet Geologists Bul 26: 276-9 F '42

Well logs of Alabama. E. Bowles. 357p Alabama geological survey, University, Ala. '41

West Texas and southeastern New Mexico development in 1941; West Texas geological society committee. bibliog map Am Assn Pet Geologists Bul 26:1007-39 Je '42

World-wide oil possibilities. W. V. Howard. il maps Oil & Gas J 40:81-8 D 25 '41

Bibliography

Reviews and new publications. Published in monthly numbers of the American association of petroleum geologists bulletin

Study and teaching

Project method for teaching petroleum geology. S. Ellison. Am Assn Pet Geologists Bul 26:1277-8 Jl '42

International aspects

See Petroleum industry and trade—International aspects; World war, 1939—Petroleum supply

Measurement

Expansion of crude petroleum, petroleum products and allied substances. Inst Pet J 27:402-17 N '41

Money saved through use of oil-production meters; with cost data. Oil & Gas J 41:51 Ag 13 '42

Use of meters for measuring production from individual wells. W. A. Sawdon. il Pet Eng 13:60-1, 64, 66 Mr '42

Value and accuracy of field measurements. C. J. May and R. Pike. Inst Pet J 28:133-40 Jl '42

Mining process

Bibliography

Oil mining. (Petroleum bibliog. no. 6) 4p Tulsa public lib, Tulsa, Okla. '42

Mud fluids

Application of mud-analysis logging in Gulf Coast area. R. W. Wilson. il Oil & Gas J 41:86-7+ Je 25 '42

Automatic instrument aids mud and well control; weight of drilling mud automatically recorded. J. B. Warren, jr. il Pet Eng (Annual no) 13:76, 78 [Jl] '42

Automatic recording of mud weight prevents many drilling difficulties. il Oil & Gas J 41:37-8 Jl 9 '42

Cheap mud work employed in drilling Trinidad wells; citrus juices substituted for quebracho for viscosity control. C. N. Smith. Oil & Gas J 41:52, 55-6 My 28 '42

Circulating mud in the drilling of oil wells; abstract. J. J. Cabo, jr. Chem Ind 51:408 S '42

Control of mud-fluid-column pressure to subdue formation pressure. G. M. Stearns. Oil & Gas J 40:239 Mr 26 '42

Correlation of certain properties of oil-well drilling-mud fluids with particle-size distribution. G. L. Gates and C. P. Bowie. bibliog diags U S Bur Mines Rep of Invest 3645:1-22 '42; Abstract. Oil & Gas J 41:42 Jl 23 '42

Desirable features of nonthixotropic drilling muds; abstract. E. A. Means. Oil & Gas J 41:45 N 5 '42

Drilling fluid technology. L. C. Uren. bibliog Pet Eng 14:42, 44 O; 43-4+ N '42

Drilling-fluid viscosimetry; abstract. W. T. Cardwell, jr. Oil & Gas J 40:36 N 13 '41

Factors influencing the electrical resistivity of drilling fluids; abstract. J. E. Sherborne and W. M. Newton. Oil & Gas J 40:41 N 13 '41

PETROLEUM—Mud fluids—*Continued*

Fractionation of colloidal systems; selection of operating conditions for the supercentrifuge. G. Fancher, S. C. Oliphant and C. R. Houssiere, jr. Ind & Eng Chem Anal ed 14:552-4 Jl 15 '42

Here's mud. Franklin Inst J 233:134 F '42

Methods of determining value of native clays used as drilling muds. V. B. Zacher. il Oil & Gas J 40:60 N 27 '41

Mud acid is widely used in Gulf Coast wells. S. C. Morian. il Oil & Gas J 41:111+ Je 25 '42

Mud analysis logging in California fields. W. A. Sawdon. il Pet Eng (Annual no) 13:48, 50, 52 [Jl] '42

Mud control of vital importance to drilling technique; portable mud-testing laboratory. W. A. Sawdon. il Pet Eng 13:52, 54, 56 Je '42

Mud control saves steel. Oil & Gas J 41:49 My 14 '42

Mud cost depends on yields. Oil & Gas J 41:55 O 8 '42

Mud-mixing calculations. G. M. Stearns. Oil & Gas J 41:45 Jl 9 '42

Mud programs important in drilling Abell field wells. D. H. Stormont. il Oil & Gas J 40:35-6 Ap 9 '42

Proper mixing cuts and mud costs. Oil & Gas J 41:65 O 22 '42

Reverse circulation speeds completions at Cromwell. H. F. Simons. il Oil & Gas J 40:34-5 D 4 '41

Review of the heaving-shale problem in the Gulf Coast region. G. Wade. bibliog fold map U S Bur Mines Rep of Invest 3618:1-64 '42

Saving of steel costs through drilling-mud control. Oil & Gas J 41:51 O 15 '42

Selection of mud treatment. Oil & Gas J 41:215 S 24 '42

Triplex pump marked advance in Gulf Coast drilling. H. F. Simons. il Oil & Gas J 41:88+ Je 25 '42

Paraffin problem

Paraffin removal by heated oil; steam generator and heat exchanger used. T. P. Sanders. il diag Oil & Gas J 40:33-4 F 19 '42

Production curtailment makes paraffin problem more difficult. P. D. Torrey. il Oil & Gas J 41:143-8 Je 25 '42

Use of hot distillate to remove paraffin from sand face. T. P. Sanders. Oil & Gas J 40:37 Ap 9 '42

Pressure maintenance

See Petroleum—Production methods

Pressure measurement

Oil-reservoir behavior based upon pressure-production data. H. C. Miller. bibliog U S Bur Mines Rep of Invest 3634:1-36 '42

Pressure prediction for oil reservoirs. W. A. Bruce. diags Oil & Gas J 40:42-3 F 12 '42

Pressure relationships. G. M. Stearns. diags Oil & Gas J 40:52 Mr 12; 57 Mr 19 '42

Reservoir and well behavior analyzer; use of electrical analogy; abstract. W. A. Bruce. diag map Oil & Gas J 41:47 N 5 '42

Subsurface pressure recorders and equipment. H. G. Abadie. il diags Pet Eng 13:69-70, 73-4+ N '41

Prices

At receiving tank basis fixed for crude ceilings. Nat Pet N 34:18 Ag 26 '42

Blanket-price ceiling on oil markets appears aim of OPA. H. S. Norman. il Oil & Gas J 40:12 N 13 '41

Changes in crude-oil prices during 1941; tabulation. Oil & Gas J 40:189+ Ja 29 '42

Crude-oil prices. Oil & Gas J 40:84 Ja 1 '42 [cont in first issue of each month]

Crude oil prices. Published in weekly numbers of National petroleum news

Effect of economic influences on the price of petroleum. J. H. Struth. Oil & Gas J 40:26 F 19 '42

Henderson clarifies policy of OPA on oil price ceiling. Oil & Gas J 40:14-15+ Ja 22 '42

Henderson outlines procedure for obtaining price increases. H. D. Ralph. Oil & Gas J 40:22 D 4 '41

Higher oil prices essential to assure reserves; summation of petroleum's position as the United Nation's cardinal war material. W. P. Cole, jr. Oil & Gas J 41:12-14 O 29 '42

OPA freezes all oil prices. W. C. Platt, ed. Nat Pet N 33:11, 14-15 N 12 '41

Oil price pressure. Business Week p31 F 14 '42

Price ceiling penalizes progress. J. P. O'Donnell. Oil & Gas J 40:13+ Ja 1 '42

Price control moves puzzle oil industry; with text of schedule 88. Nat Pet N 34:5+, 17-19 F 11 '42; Same (text). Oil & Gas J 40:26, 78 F 12 '42

Recapitulation of oil-price rulings shows trend of OPA control. Oil & Gas J 41:29-30 Ag 27 '42

Reserve needs indicate price advance quickest solution. H. S. Norman. Oil & Gas J 40:14+ N 20 '41

Static crude prices in prospect for producers. H. S. Norman. Oil & Gas J 41:146-7 Jl 30 '42

Supplies adequate, no need for crude hike, Henderson testifies at O'Mahoney hearings. Nat Pet N 34:24+ O 14 '42

War may be lost for lack of oil if OPA's low prices continue. W. P. Cole, jr. Nat Pet N 34:17-20 N 4 '42

Production costs

Cost of increased production measured in terms of steel. L. C. Converse. Oil & Gas J 40:46+ F 19 '42

Cost of treating emulsions. Oil & Gas J 41:213 S 24 '42

Cost study of Fort Collins-Wellington, Colo., field. F. N. Bosco. maps Oil & Gas J 40:50-2 Ja 15 '42; Discussion (Cost of producing oil). E. Bloesch. 40:37 F 12 '42

Cost study shows value of designed bit program. Oil & Gas J 41:67 O 22 '42

Effects of well-cleanout work in Venango district. R. B. Bossler and P. A. Dickey. il Oil & Gas J 41:33-4, 36 O 29 '42

Gas-drive efficiency determined by injection ratio. F. P. Peterson. Oil & Gas J 40:235 Mr 26 '42

Indirect costs important in figuring economic limit. Oil & Gas J 41:53 S 17 '42

Mud cost depends on yields. Oil & Gas J 41:55 O 8 '42

Relative costs of electrical logs and cores are variable. Oil & Gas J 41:57 O 8 '42

Sucker-rod costs determined from operating data. Oil & Gas J 40:49 Ap 9 '42

Surface-hole cost reduced by use of portable drilling unit. Oil & Gas J 41:65 S 10 '42

Table of equivalent costs for boiler fuels. Oil & Gas J 41:49 Je 11 '42

Table of fuel-price equivalents. Oil & Gas J 41:69 My 28 '42

Production estimates

Accurate reserve estimates. Oil & Gas J 41:55 Ag 6 '42

Application of time logs to porosity studies in central Kansas wells. J. P. McKee. Oil & Gas J 41:56+ S 3 '42

Calculation of gas reserves. G. M. Stearns. Oil & Gas J 40:201 Ap 30 '42

Calculation of productivity factors for oil-gas-water systems in the steady state. H. H. Evinger and M. Muskat. Oil & Gas J 40:43 F 12 '42

Determining productivity index of pumping well by copper tubing method. diags Pet Eng (Annual no) 13:115-16, 118 [Jl] '42

Estimating oil reserves from production-decline rates; tables. P. J. Jones. Oil & Gas J 41:48+ Ag 13; 43-4 Ag 20 '42

Flow of homogeneous fluids through linear systems. P. J. Jones. Oil & Gas J 41:53-4 Je 4 '42

Flow of homogeneous fluids through radial systems. P. J. Jones. Oil & Gas J 41:35-7 Je 11 '42

Gravitational drainage of liquids from unconsolidated Wilcox sand; abstract. R. F. Stahl and R. L. Huntington. Oil & Gas J 41:47-8 N 5 '42

PETROLEUM—Production estimates—*Cont.*

Methods of recovery estimates. Oil & Gas J 41:66 Ag 27 '42

Notes on valuation of oil and gas properties. 47p bibliog(supp p1-11) L. W. Storm, 4001 Agnes st, Corpus Christi, Tex. '41

Productivity of oil wells and inherent influence of gas: oil ratios and water saturation. R. V. Higgins. pls U S Bur Mines Rep of Invest 3657:1-50 '42

Relationship between velocity, oil saturation, and flooding efficiency; abstract. R. C. Earlougher. Oil & Gas J 41:48 N 5 '42

Reservoir and well behavior analyzer; use of electrical analogy; abstract. W. A. Bruce diag map Oil & Gas J 41:47 N 5 '42

Small-capacity meters used to gage well productivity. H. F. Simons. il Oil & Gas J 40:62+ F 26 '42

Speculations on the prediction of reservoir behavior from laboratory data; abstract. E. C. Babson. Oil & Gas J 41:46 O 22 '42

Value and accuracy of field measurements. C. J. May and R. Pike. Inst Pet J 28:133-40 Jl '42

Production methods

Bottom-hole separator conserves reservoir gas pressure. K. Kelley. il diag Pet Eng 13:31-2 S '42

Compact to aid expansion of secondary-recovery work. C. O. Willson. Oil & Gas J 41:55-7 Je 25 '42

Completion of two-zone wells is greatly simplified; tool provides means to control flow from either or both zones. J. O. Farmer. il Oil & Gas J 41:89+ Je 25 '42

Completion practices related to well productivity; abstract. W. J. Travers, jr. Oil & Gas J 40:41+ N 13 '41

Drilling and production of East Placedo field. C. C. Pryor. il Pet Eng 13:108, 110 S '42

East Texas operators to consider disposal plan; with cost data. D. H. Stormont. il Oil & Gas J 40:34 D 11 '41

East Texas water-disposal project is continued. D. H. Stormont. Oil & Gas J 40:24 D 18 '41

East Texas water-injection program approved by OPC to increase output. Nat Pet N 34:14 S 16 '42

Economic technology of the water drive; its application to encroachment water and water flooding through oil sands; abstract. H. M. Ryder. Oil & Gas J 40:36 Ap 2 '42

Economics of gravel-packing in semi-depleted Loma Novia field. D. L. Harlan. diags Pet Eng 13:83-4, 86, 88 Ap '42

Effects of well-cleanout work in Venango district. R. B. Bossler and P. A. Dickey. il Oil & Gas J 41:33-4, 36 O 29 '42

Engineering study determines advisability of pressure-maintenance installation. J. D. Collett, jr. il maps Pet Eng 13:62+ My '42

Estimating cost of repressuring small lease. Oil & Gas J 41:169 Jl 30 '42

Financing of east Texas salt water disposal plan complete. R. Ingram. Oil & Gas J 41:31 Ag 13 '42

Forum session: Is unified pressure control essential to oil recovery; the Paloma plan? American institute of mining and metallurgical engineers, Petroleum division. Oil & Gas J 40:37, 40-1, 43-4 N 13 '41

Future of oil production methods. D. R. Knowlton. Oil & Gas J 40:35 D 18 '41

Gas-cycling increases recovery. N. Williams. il Oil & Gas J 40:61-2+ Ap 23 '42

Horizontal wells from shaft to be used in Pennsylvania; method invented by L. Ranney. A. C. MacIntyre. Oil & Gas J 40:42 Ap 9 '42

Increase in oil production by application of chemicals. P. E. Fitzgerald. bibliog Oil & Gas J 40:194-6+ Ja 29 '42

Loco Hills pressure-maintenance project placed in operation. D. H. Stormont. il map Oil & Gas J 40:48-9 D 11 '41

Multiple-zone completions of oil and gas wells. E. O. Bennett. Pet Eng 13:19-20 Jl '42

New removable-type circulating valve; used to bring in Ville Platte wells. J. O. Farmer. diags Pet Eng 13:35-6 Jl '42

New-type multiple-completion technique developed in Illinois. H. F. Simons. il diag Oil & Gas J 41:31-2 Ag 6 '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:202+ D 25 '41

Oil-reservoir behavior based upon pressure-production data. H. C. Miller. bibliog U S Bur Mines Rep of Invest 3634:1-36 '42

Oil reservoir drainage increased by intermittent air-injection. F. R. Cozzens. Pet Eng (Annual no) 13:120 [Jl] '42

Oil well drainage. S. C. Herold. 407p $5 Stanford univ. press '41

Operation of Gulf Coast field is aided by gas-cycling program. F. L. Singleton. il Oil & Gas J 41:113-14 Je 25 '42

Pressure control at Schuler reduces gas-oil ratios. R. M. Sanford. Oil & Gas J 40:61+ Ja 1 '42

Pressure maintenance at K.M.A. W. H. Rouzer, jr. Oil & Gas J 40:33-4+ Ap 2 '42

Problem of increasing recovery; abstract. E. G. Trostel. Oil & Gas J 41:46 O 22 '42

Progress in reservoir technology. M. Muskat. Pet Eng 14:35-6 O '42

Progress report on standards of allocation of oil production within pools and among pools. 98p bibliog(p75-92) Central committee on drilling and production practice, Division of production, Am. petroleum inst, Dallas, Tex. '42

Recovery from oil reservoirs. P. J. Jones. Oil & Gas J 41:163-4 Jl 30; 39-40 Ag 6 '42

Red River field offers example of value of repressuring. D. H. Stormont. map Oil & Gas J 40:32-3+ D 18 '41

Reducing the quantity of salt water produced with oil; use of subsurface chokes. F. J. Mikeska. il diags Pet Eng 13:23-6 Ja '42

Relationship between velocity, oil saturation, and flooding efficiency; abstract. R. C. Earlougher. Oil & Gas J 41:48 N 5 '42

Remodeled slide rule speeds gas-volume computation. il Oil & Gas J 40:50 F 19 '42

Reservoir pressures at Rincon stabilized by gas return. N. Williams. il diag Oil & Gas J 41:39-40 S 10 '42

Reservoirs under hydraulic and volumetric controls. A. H. Nissan. diags Inst Pet J 28:146-57 Jl '42

Review of multiple-zone production in California. R. F. Cory. il diags Am Pet Inst Proc 22(4):14-19 '41; Same. Oil & Gas J 40:88, 90+ N 6 '41; Discussion. Am Pet Inst Proc 22(4):19-21 '41

Review of secondary recovery in the United States. P. D. Torrey. Oil & Gas J 41:19-20, 72 Jl 9; 39-40, 59-60 bibliog(p60) Jl 16 '42

Revived oil wells; maximum production is sought with minimum use of steel. Business Week p28+ Mr 14 '42

Reworking California oil wells. W. A. Sawdon. diags Pet Eng 13:21-2 Jl '42

Schuler field benefits from repressuring program. J. E. Howell. Oil & Gas J 40:58+ Ap 2 '42

Secondary recovery in east Kansas grows in importance. P. Reed. il Oil & Gas J 41:22-3+ O 22 '42

Spacing, allowables based on recovery rates and pressure. P. J. Jones. Oil & Gas J 40:37-8+ Mr 5 '42

Use of hot distillate to remove paraffin from sand face. T. P. Sanders. Oil & Gas J 40:37 Ap 9 '42

War conditions change trend of production practice. H. F. Simons. Oil & Gas J 41:154-5 Jl 30 '42

See also

Petroleum—Acidation of wells

Petroleum—Mud fluids

Petroleum—Pumping

Petroleum—Well drilling

Patents

Patents on production. Inst Pet J 27:445A-7A; 28:29A-32A N '41, Ja '42

Proration

Effect of proration on payout of producing properties. Oil & Gas J 41:51 Je 18 '42

PETROLEUM—Proration—*Continued*

Progress report on standards of allocation of oil production within pools and among pools. 98p biblog(p75-92) Central committee on drilling and production practice, Division of production, Am. petroleum inst, Dallas, Tex. '42

Yates, birthplace of proration, has fifteenth anniversary. R. Ingram. Oil & Gas J 40:19 N 20 '41

Prospecting

Abstracts of American assn. of petroleum geologists survey of developments in 1941. Oil & Gas J 40:55-7 Ap 23 '42

California exploration and development in 1941. J. R. Dorrance. maps Am Assn Pet Geologists Bul 26:1135-54 Je '42

East Texas wildcat campaign only moderately successful. R. Ingram. map Oil & Gas J 41:82-3+ My 28 '42

Electric exploration for oil; abstract. H. M. Evjen. Oil & Gas J 41:48 N 5 '42

Exploration has been reduced by restrictions under M-68. W. V. Howard. il Oil & Gas J 40:56+ Mr 26 '42

Geologists survey needs for increased discovery rate; report of research committee of the American association of petroleum geologists. W. V. Howard. Oil & Gas J 40:43+ Ap 23 '42

Geophysical exploration in Brazil. W. A. Sawdon. il Pet Eng 14:122, 124 O '42

Gulf Coast region is ready for expanded exploration to meet the increased needs of Nation's war effort. F. L. Singleton and N. Williams. il Oil & Gas J 41:52-4 Je 25 '42

How can geophysicists best serve? H. B. Peacock. Am Assn Pet Geologists Bul 26:1200-6 Jl '42

Large savings possible by revamping procedure. Oil & Gas J 41:47 O 1 '42

Major-field need demands outpost-area exploration. W. V. Howard. il Oil & Gas J 40:30, 99 D 11 '41

More but smaller discoveries is trend along Gulf coast. W. V. Howard. Oil & Gas J 41:104, 107-8 Je 25 '42

New frontiers in micropaleontology, with especial reference to petroleum exploration. C. Croneis. bibliog Econ Geol 37:16-38 Ja '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:170-2+ D 25 '41

Notes on present status of problem of exploration. E. DeGolyer. Am Assn Pet Geologists Bul 26:1214-20 Jl '42

Principles of sedimentation and the search for stratigraphic traps. W. C. Krumbein. diags maps Econ Geol 36:786-810 D '41

Report of a symposium on petroleum discovery methods. 164p Am. assn. of petroleum geologists, box 979, Tulsa, Okla. '42

Resistivity method of locating oil and gas pays. J. L. Harper. Oil & Gas J 41:64-6 Je 11 '42

Role of fundamental geologic principles in the opening of the Illinois basin. A. H. Bell. maps Econ Geol 36:774-85 D '41

Shrinkage of oil on balance calls for new means of finding. E. DeGolyer. Oil & Gas J 40:66, 68 Ap 30 '42

Smackover lime wedge-edge searched for oil deposits. R. Ingram. diag map Oil & Gas J 41:76-8 Ag 27 '42

Society of economic geophysicists; abstracts of papers. Oil & Gas J 40:57 Ap 23 '42

Spiralok, a new shell for seismic shooting. J. C. McAfee. il Explosives Eng 20:105-7 Ap '42

U.S. financed exploration proposed. Nat Pet N 34:30 Jl 22 '42

Wildcat drilling in 1941. F. H. Lahee. bibliog maps Oil & Gas J 40:48-9, 51, 53 Ap 23 '42; Same. Am Assn Pet Geologists Bul 26:969-82 Je '42

Pumping

Automatic tank-battery control simplifies lease operation. H. F. Simons. il diags Oil & Gas J 40:227-8 Mr 26 '42

Basic principles of closed type flow-valve installations. J. E. Halferty. diags Oil & Gas J 40:40-1+ F 19 '42

Calculation of load and stroke in oil-well pump rods. B. F. Langer and E. H. Lamberger. diags Oil & Gas J 41:27-30+ Jl 2; 26, 28, 30+ Jl 9 '42

Californians seek maximum use of pumping equipment. Oil & Gas J 41:10 S 3 '42

Central electrical generating plant designed for 160 wells. H. E. David. il Oil & Gas J 40:74 F 26 '42

Central hydraulic pumping used in Hull-Silk field. T. P. Sanders. il Oil & Gas J 40:41-2 My 7 '42

Close temperature regulation pays dividends; Diesel engine heat used to heat oil for Kobe pumping unit. il Diesel Power 20:579-81 Jl '42

Comparison of cost of pump working-barrel operation. Oil & Gas J 40:73 Ap 23 '42

Determining productivity index of pumping well by copper tubing method. diags Pet Eng (Annual no) 13:115-16, 118 [Jl] '42

Economic use of electric power in petroleum production. W. H. Stueve. Oil & Gas J 40:38 Ap 9 '42

Exhaustive tests performed on Oklahoma pumping well. il Oil & Gas J 40:35 F 12 '42

Factors affecting the volumetric efficiency of sucker-rod pumps. G. M. Stearns. diag Oil & Gas J 41:41-2 Je 11 '42

Gas jetting used to lift oil at Aransas Pass field. N. Williams. il Oil & Gas J 40:33-4 F 5 '42

Gas-lift kick-off pressure. B. B. Boatwright. diag Oil & Gas J 40:54 Ap 9 '42

Hydraulic pumping is applied to deep wells on Gulf coast. C. E. Buchner, jr. il Oil & Gas J 41:136+ Je 25 '42

Individual well electric jacks; abstract. H. O. Murphy. Oil & Gas J 40:50 Ap 16 '42

Multiple-zone completions. E. O. Bennett. diags Oil & Gas J 40:27-8, 42 Mr 5 '42

New type secondary recovery in Dupo, Illinois, field; electrical centrifugal pump installed. V. Kotschoubey. il map Oil & Gas J 40:39-40 Mr 5 '42

Oil-well pumping tests. H. E. Dralle and E. H. Lamberger. il diags Oil & Gas J 40:43-4, 46, 48 My 7 '42

Operation of electric centrifugal producing pumps in parallel. W. H. Stueve. diag Oil & Gas J 40:36 F 12 '42

Practical application of flow valve installation principles. J. E. Halferty. diags Oil & Gas J 40:46-7, 49, 64-6 N 27 '41

Proper engine sizes save fuel. Oil & Gas J 41:45 S 3 '42

Proper oil prolongs life of pumping unit speed reducer. K. N. Mills. il diag Oil & Gas J 40:161+ Ap 30 '42

Pumping experiment designed to check various factors. G. M. Stearns. il diag Oil & Gas J 41:31-2 S 3 '42

Remodeling pumping equipment returns investment quickly. Oil & Gas J 41:51 N 5 '42

Replacing worn equipment saves operator money. Oil & Gas J 41:67 My 28 '42

Report of A.P.I. committee on the standardization of pumping equipment and engines. Am Pet Inst Proc 22(4):159-75 '41

Some aspects of mechanical pumping at Comodoro Rivadavia. D. M. Seifer. il diags Pet Eng 13:116+ N '41

Study of pump operation reduces expense. Oil & Gas J 41:77 My 14 '42

Submersible magnetic strain gauge; has application in pumping wells. E. H. Lamberger and B. F. Langer. il diags Pet Eng (Annual no) 13:64, 66, 68 [Jl] '42

Tubing perforators to solve special gas-lift problems. G. G. Kingelin. il Oil & Gas J 41:120 Je 25 '42

Use of A.P.I. specifications in standardization of oil-well pumps; abstract. B. L. Remick. Oil & Gas J 40:36 Ap 2 '42

Usefulness of sucker rods prolonged by proper care at the well. J. C. Albright. il Pet Eng 13:72 Ap '42

Value of sound pump practices increased by emergency. il diags Oil & Gas J 40:136, 138+ Ap 30 '42

PETROLEUM—Pumping—*Continued*

Wells in Big Lake field now pumped by power from new generating plant. F. H. Love. il Pet Eng 13:53-4, 56+ F '42

See also
Petroleum pipe lines
—Pumping stations

Repressuring

See Petroleum—Production methods

Salt content

Photomicroscopy of salt in petroleum. L. F. Christianson and J. W. Horne. bibliog il U S Bur Mines Tech Pa 638:1-56; pa 25c Supt. of doc. '42; Abstracts. Pet Eng 13:48 Ag '42; Nat Pet N 34 pt 2:R333-6 S 30 '42

See also
Petroleum refining—Salt removal

Sampling

Collecting and examining subsurface samples of petroleum. P. Grandone and A. B. Cook. il diags pls U S Bur Mines Tech Pa 629:1-68; pa 20c Supt. of doc. '41

See also
Petroleum—Well drilling—Sampling

Statistics

Trend of current requirements for domestic crude oil; 1940, 1941 and 8 months of 1942; tabulation. W. V. Howard. Oil & Gas J 41:14 O 1 '42

See also
Petroleum industry and trade—Statistics
Petroleum supply

Stripper wells

Gas-drive efficiency determined by injection ratio. F. P. Peterson. Oil & Gas J 40:235 Mr 26 '42

Stripper well problem. J. F. Weiler. bibliog (78 references) Pet Eng (Annual no) 13:162, 164+ [Jl] '42

Sulfur content

Determination of types of sulfur compounds in petroleum distillates. J. S. Ball. U S Bur Mines Rep of Invest 3591:1-60 bibliog(88 titles, p55-60) '41

What can be done about sulphur in the refinery? A. W. Trusty. flow diags Pet Eng 13:72-4, 76-7 My '42

Tables, calculations, etc.

Expansion of crude petroleum, petroleum products and allied substances. Inst Pet J 27:402-17 N '41

Tag manual for inspectors of petroleum. R. M. Wilhelm, ed. 26th ed 159p $1 C. J. Tagliabue mfg. co, Brooklyn, N.Y. '42

Terminology

Glossary of terms relating to reservoir behavior. Am Pet Inst Proc 22(4):86-96 '41

Testing

Collecting and examining subsurface samples of petroleum. P. Grandone and A. B. Cook. il diags pls U S Bur Mines Tech Pa 629:1-68; pa 20c Supt. of doc. '41

Transportation

Barges take strong position in Gulf Coast oil transportation. N. Williams. il map Oil & Gas J 40:14-16 D 4 '41

Carriers hit new peak in tank cars. Ry Age 112:1052-3 My 23 '42

Complete pooling of all oil transportation is indicated. C. O. Willson. il Oil & Gas J 40:10-11 Ap 16 '42

Cross-Florida pipeline, barge canal reported favorably by Senate group. Nat Pet N 34:22+ Jl 8 '42

Excess in 1942 over minimum requirements may be expected. J. R. Parten. Nat Pet N 34:26-7 Jl 15 '42

Floods retarded oil movement in Oct. 24 week. Ry Age 113:745 N 7 '42

Gaging the oil problem. Business Week p17-18+ Ag 1 '42

Greater efficiency demanded if rail hauls to East climb. il Nat Pet N 34:27-8 Ap 22 '42

New alert for oil; rails do job they promised. Business Week p15-16 F 28 '42

ODT organizes eastern oil truckers to achieve 130-hour week operation. Nat Pet N 34:28+ My 27 '42

Oil flows by rail. Business Week p18+ My 23 '42

Oil in boxcars? il Fortune 26:22 S '42

Oil transport on the Mississippi will reach 200 million barrels in 1942. Sci Am 166:242 My '42

Oil-transportation routes changed to meet exigencies. H. S. Norman. il Oil & Gas J 40:16-17 N 13 '41

1000 tank cars daily to haul crude from Southwest for Atlantic Refining. Nat Pet N 34:26 F 18 '42

Petroleum products shortage threat. Barron's 22:12 F 2 '42

Railroad competition and the oil trade, 1855-1873. R. H. Maybee. 451p bibliog(p409-29) $3 Extension press, Central state teachers college, Mt Pleasant, Mich. '40

Rails now deliver 60 per cent of eastern oil demand. il Ry Age 113:306-9 Ag 22 '42; Same. Ry Mech Eng 116:400-1 S '42

RFC to pay increased oil transport cost. Comm & Fin Chr 156:277 Jl 23 '42

Record rail movement fails to halt eastern stock fall. H. S. Norman. Oil & Gas J 40:22 Mr 5 '42

Sea Otter ships may transport oil to Atlantic coast. il Nat Pet N 33:23 N 12 '41

Shift in oil's transport pattern shapes up as new plans are mapped to replace tankers. map Nat Pet N 34:25 My 27 '42

Shortage of tankers hits all areas; Petroleum industry war council's report. Oil & Gas J 40:20+ Ap 16 '42

Supply-demand balance seen in East coast oil movement. Nat Pet N 34:3+ Jl 8 '42

Tankcar permit now within 200 miles. Oil Paint & Drug Rep 142:7+ S 28 '42

Tank cars are rollin' these days. Ry Age 112:586-7 Mr 21 '42

Transportation division of OPC doing vital task. H. D. Ralph. Oil & Gas J 41:22-4 N 5 '42

War has imposed an enormous burden on Nation's oil arteries. W. A. Jones. Oil & Gas J 41:76 S 24 '42

Washington sees rubber box car; new Mareng cell may be used to haul oil. Ry Age 113:313 Ag 22 '42

See also
Petroleum pipe lines
Petroleum products—Transportation
Petroleum shipping terminals
Railroads—Rates—Petroleum and petroleum products
Tank cars
Tank ships
Tank trucks

Unit operation of pools

Consolidation and unitization save huge sums for operators. Oil & Gas J 41:53 Ag 6 '42

Water analyses

Oil-field waters of Montana plains. J. G. Crawford. diags map Am Assn Pet Geologists Bul 26:1317-74 Ag '42

Water flooding

See Petroleum—Production methods

Water problem

Automatic discharge from salt-water pits in the east Texas field. il Oil & Gas J 41:42 Ag 13 '42

Calculation of the rate of water influx in water-drive fields; abstract. W. Hurst. Oil & Gas J 40:53 F 19 '42

Closed siphon system handles disposal water at Tinsley. R. M. Sanford. il Oil & Gas J 40:57-8 F 26 '42

PETROLEUM—Water problem—*Continued*

Development, operation and valuation of oil and gas properties; flow of homogeneous fluids; water in virgin oil and gas pays. P. J. Jones. bibliog Oil & Gas J 41:35-6+ Je 18 '42

East Texas operators to consider disposal plan; with cost data. D. H. Stormont. il Oil & Gas J 40:34 D 11 '41

East Texas water-disposal project is continued. D. H. Stormont. Oil & Gas J 40:24 D 18 '41

Electrolytic chlorinators used on east Texas disposal projects. T. P. Sanders. il Oil & Gas J 41:31-2 Jl 23 '42

Financing of east Texas salt water disposal plan complete. R. Ingram. Oil & Gas J 41:31 Ag 13 '42

Flow of oil-water mixtures through media of uniform permeability. P. J. Jones. Oil & Gas J 41:197-8 Je 25 '42

Greater precautions needed in tests for water shutoff. H. W. Bell. Oil & Gas J 41:130 Je 25 '42

Laboratory study of water encroachment in oil-filled sand columns. F. G. Miller. pls U S Bur Mines Rep of Invest 3595:1-32 '41

One method of constructing salt water pits in east Texas field. H. L. Flood. il Pet Eng 13:153 D '41

Plan to curtail east Texas water output strikes snags. W. V. Howard. Oil & Gas J 41:10-11 N 5 '42

Reducing the quantity of salt water produced with oil; use of subsurface chokes. F. J. Mikeska. il diags Pet Eng 13:23-6 Ja '42

Salt water disposal system utilizes noncorrosive materials. C. C. Pryor. il Pet Eng 13:42, 44, 46 Ap '42

Salt-water disposal systems. H. H. Elliston. Oil & Gas J 40:35 Ap 2 '42

Subsurface disposal of oil-field brines in Oklahoma. S. S. Taylor and E. O. Owens. pls diags map U S Bur Mines Rep of Invest 3603:1-54 '42

Bibliography

Salt water disposal. (Petroleum bibliog. no. 5) 6p Tulsa public lib, Tulsa, Okla. '42

Selected annotated bibliography on oil-field waters. L. C. Case and others. Am Assn Pet Geologists Bul 26:865-81 My '42

Wax content

See also
Paraffin
Petroleum—Paraffin problem

Well blasting

Complete detonation in well shooting. F. R. Cozzens. diag Pet Eng 13:54 Ap '42

Recent advances in the selective shooting of producing horizons; abstract. H. M. Ryder. Oil & Gas J 40:31+ Ap 16 '42

Well casing

Better pulling methods permit greater recovery of casing. D. H. Stormont. il Oil & Gas J 40:54-5 N 27 '41

Calculation of pressure of fluid column outside of casing. diags Oil & Gas J 40:49 Ap 2 '42

Casing corrosion in oil fields producing sour gas. T. D. Bailey and A. M. Crowell. diags map Oil & Gas J 41:31-4 O 15 '42

Casing recovery at old wells conserves steel for war effort. H. F. Simons. il Oil & Gas J 41:33-4 Je 18 '42

Fibre pipe run for casing in shallow Illinois oil well. F. Squires. il diags Oil & Gas J 41:61-2 My 28 '42

Fiber pipe supplants steel in oil-well test. Am Gas Assn Mo 24:226 Je '42

Overcoming tendency of packer to stick in casing. F. H. Love. il Pet Eng 13:23-4 Jl '42

Repairing casing leaks. F. J. Spang. il diag Pet Eng 13:35-8, 42+ Je '42

Report of the A.P.I. committee on the standardization of oil-country tubular goods. Am Pet Inst Proc 22(4):125-33 '41

Well cementing

Cement aids oil production. A. R. Boone. il diag Sci Am 166:272-3 Je '42

Cement slurry to fit the job. W. A. Sawdon. il Pet Eng 13:23-6 Ap '42

Cements for oil and gas wells. L. C. Uren. bibliog Pet Eng 13:23-6 Ag; 51, 53-4+ S '42

Difficulties of completion offer challenge in central Louisiana Wilcox zone field. W. R. S. Jones and R. M. Sanford. il diag Oil & Gas J 40:52-3 Ja 1 '42

Durability of cements in contact with brines and chemical solutions. H. H. Miller. il Pet Eng 13:50, 52, 54 Ag '42

Hardening times for casing cementation. N. Healey and S. L. Pease. Inst Pet J 28:1-10; Discussion. 10-14 Ja '42

Oil-well cementing. J. V. Polk. Pet Eng 13:82, 84+ Ag '42

Pumping equipment for oil-well cementing. W. D. Owsley. il diags Mech Eng 64:388-90 My '42

Quick-setting gypsum cement aids in landing surface pipe. Oil & Gas J 40:40 D 4 '41

Report of A.P.I. special subcommittee on oil-well cements. Am Pet Inst Proc 22(4): 84-5 '41

Specific application of acid jet gun; employed to remove cement from tubing. J. H. Adkison. il diag Pet Eng 13:112, 114 S '42

Stage-cementing advantages. G. M. Stearns. diag Oil & Gas J 40:53 Ap 16 '42

Thermal characteristics of high-temperature oil well cements. E. E. Byrd and F. W. Jessen. bibliog il Ind & Eng Chem 34:1142-8 O '42

Use of correct tool results in reduced costs. Oil & Gas J 41:41 Jl 9 '42

Use of gel-type cement to cement casing; abstract. J. T. Reynolds. Oil & Gas J 40:50 Ap 16 '42

Bibliography

Cementing wells. (Petroleum bibliog. 3) 16p Tulsa pub. lib, Technical dept, Tulsa, Okla. '42

Well cleaning

Effects of well-cleanout work in Venango district. R. B. Bossler and P. A. Dickey. il Oil & Gas J 41:33-4, 36 O 29 '42

New liner-cleaning method fills need. T. P. Sanders. Oil & Gas J 40:206-7 Ja 29 '42

Unclogs oil wells. Business Week p55 My 30 '42

Well control

Automatic instrument aids mud and well control; weight of drilling mud automatically recorded. J. B. Warren, jr. il Pet Eng (Annual no) 13:76, 78 [Jl] '42

Control of mud-fluid-column pressure to subdue formation pressure. G. M. Stearns. Oil & Gas J 40:239 Mr 26 '42

Improved method for changing blowout preventer rams. R. M. Lilly. il diags Pet Eng 13:108, 110, 113-14 N '41

Maintenance of blowout preventers. il diag Oil & Gas J 40:176 Ap 30 '42

New problems faced in killing off-shore cratered blowout. N. Williams. il diags Oil & Gas J 41:29-32 N 5 '42

Well drilling

Accident costs also involve damage to equipment. Oil & Gas J 41:49 N 5 '42

Accurate deviation tests reduce drilling costs. Oil & Gas J 41:53 My 21 '42

Alma oil co. 1 Deroin; discovery well, unnamed pool, Pawnee county, Oklahoma; log and drilling data. J. E. Trigg. Oil & Gas J 41:57 My 21 '42

Application of magnetic method of deflecting-tool orientation. B. Wiess, jr. il diag Oil & Gas J 41:92+ Je 25 '42

Automatic instrument aids mud and well control; weight of drilling mud automatically recorded. J. B. Warren, jr. il Pet Eng (Annual no) 13:76, 78 [Jl] '42

Automatic recording of mud weight prevents many drilling difficulties. il Oil & Gas J 41:37-8 Jl 9 '42

PETROLEUM—Well drilling—*Continued*

Average daily costs for rotary rigs are high. Oil & Gas J 41:45 Jl 23 '42

Block and tackle systems. G. M. Stearns. diag Oil & Gas J 41:58 Jl 16 '42

Breakdown of rig time helps in estimating costs. Oil & Gas J 41:75 My 14 '42

Cable-tool service extended by good operating practice. F. J. Spang. il Oil & Gas J 40:103-4+ Ap 30 '42

California deep-drilling rig uses direct electric current. L. D. Banderob and P. L. Savage. il diag Oil & Gas J 41:45-6 O 8 '42

Care of go-devil type straight-hole recorder. Oil & Gas J 40:186-7 Ap 30 '42

Cheap mud work employed in drilling Trinidad wells; citrus juices substituted for quebracho for viscosity control. C. N. Smith. Oil & Gas J 41:52, 55-6 My 28 '42

Cost study shows value of designed bit program. Oil & Gas J 41:67 O 22 '42

Deep rotary drilling in Michigan. G. C. MacDonald. diags Oil & Gas J 40:39-40, 41 Ap 16 '42

Determining cost per foot of bit service. Oil & Gas J 40:49 Mr 12 '42

Diesel-electric drilling rig designed for simplicity. J. P. Van Vorst. il diag Pet Eng 14:46+ O '42

Difficulties of completion offer challenge in central Louisiana Wilcox zone field. W. R. S. Jones and R. M. Sanford. il diag Oil & Gas J 40:52-3 Ja 1 '42

Directional drilling deflects hole into productive zone. C. C. Pryor. Pet Eng 13:31-2 Mr '42

Drill-pipe inspection as basis for improving drilling technique. T. P. Sanders. il Oil & Gas J 41:33-4+ Je 11 '42

Drill-pipe record helps in determining costs. Oil & Gas J 40:47 Ap 2 '42

Drilling and production of East Placedo field. C. C. Pryor. il Pet Eng 13:108, 110 S '42

Drilling fluid technology. L. C. Uren. bibliog Pet Eng 14:42, 44 O; 43-4+ N '42

Drilling in the United States falls below recent levels. W. V. Howard. Oil & Gas J 41:76-7+ Jl 30 '42

Drilling methods at Chapel Hill. T. P. Sanders. il Oil & Gas J 40:37-8 Mr 12 '42

Drilling practices. C. W. DeLancey. Pet Eng 13:98, 100+ D '41

Drilling records permit increase in drilling rig efficiency. H. F. Simons. il Oil & Gas J 40:29-30 Ja 22 '42

Drilling-time logs and their uses. R. Willis and R. S. Ballantyne, jr. Am Assn Pet Geologists Bul 26:1279-83 Jl '42

Exploration has been reduced by restrictions under M-68. W. V. Howard. il Oil & Gas J 40:56+ Mr 26 '42

Four-year operation shows merit of rig design. H. F. Simons. il Oil & Gas J 41:33-4 O 1 '42

Journalog; extension to Peace Creek field, Reno county, Kansas. Oil & Gas J 40:48 F 5 '42

Many factors affect rig costs. Oil & Gas J 41:65 Ag 27 '42

Medium weight drilling equipment employed in deeper north Texas drilling. H. L. Flood. il diag Pet Eng 13:29-32 D '41

Method for measuring hydration-pressure relationships in bentonitic materials and heaving shale. H. H. Power, B. L. Towle and J. B. Plaza. 25p bibliog(p25) Bur. of industrial chemistry, Univ. of Texas, Austin '42

Mud control of vital importance to drilling technique; portable mud-testing laboratory. W. A. Sawdon. il Pet Eng 13:52, 54, 56 Je '42

Mud control saves steel. Oil & Gas J 41:49 My 14 '42

Mud programs important in drilling Abell field wells. D. H. Stormont. il Oil & Gas J 40:35-6 Ap 9 '42

New methods in completion and drilling on Gulf coast. P. D. Torrey. il Oil & Gas J 41:82-3, 148-56 Je 25 '42

New oil base drilling fluid facilitates well completion. G. L. Miller. il Pet Eng 13:104-6 S '42

Newest technique; text in English and Spanish. il Oil & Gas J 40:179+ D 25 '41

Oil experiment; horizontal drilling will get thorough tryout in Pennsylvania. Business Week p61-2 Ap 11 '42

Pocket-hole drilled in deep well for removal of small junk pieces. diag Oil & Gas J 41:45 O 22 '42

Present position of the drilling contractor. B. Mills. Pet Eng 13:48, 50 Ap '42

Principles and operation of weight indicators. G. M. Stearns. Oil & Gas J 41:48 Jl 23 '42

Problems in redrilling deep Dominguez wells sheared by earthquake. T. P. Sanders. il Oil & Gas J 40:40 Ja 8 '42

Rate of penetration record facilitates drilling. W. A. Sawdon. il Pet Eng (Annual no) 13:71, 74 [Jl] '42

Record number of deep tests drilled during 1941. H. F. Simons. Oil & Gas J 40:193 Ja 29 '42

Repairing and redrilling oil wells. J. R. Thomas. Pet Eng 13:46+ Ag '42

Report of A.P.I. special subcommittee on heaving shale. diags Am Pet Inst Proc 22(4):98-9 '41

Reverse circulation speeds completions at Cromwell. H. F. Simons. il Oil & Gas J 40:34-5 D 4 '41

Review of the heaving-shale problem in the Gulf Coast region. G. Wade. bibliog fold map U S Bur Mines Rep of Invest 3618:1-64 '42

Rotary drilling in the Appalachian area; with cost data; abstract. E. H. Tollefson and W. W. Mayfield. Oil & Gas J 40:31 Ap 16 '42

Rotary pressure-drilling practice. E. V. Foran. Pet Eng (Annual no) 13:44, 46 [Jl] '42

Salt-water evaporator system reduces boiler operation cost W. A. Shellshear. il diag Oil & Gas J 41:118-19 Je 25 '42

Saving of steel costs through drilling-mud control. Oil & Gas J 41:51 O 15 '42

Shell Oil develops new type slim-hole rotary rig. H. F. Simons. il Oil & Gas J 40:33, 35, 39-40+ Ja 15 '42

Sidetracking sink-holes in western Kansas fields. J. A. Kornfeld. map Pet Eng 13:27-8 F '42

Socony-Vacuum drills deepest South American well; Anzoategui, eastern Venezuela. J. P. O'Donnell. il Oil & Gas J 40:92-3 D 25 '41

Surface-hole cost reduced by use of portable drilling unit. Oil & Gas J 41:65 S 10 '42

Trend in operating technique points to major advances. H. F. Simons. il Oil & Gas J 41:10-11, 45-6 O 1 '42

Trends in rotary drilling machinery and equipment. J. M. Shimer. Pet Eng 13:129-30, 132 D '41

Triplex pump marked advance in Gulf Coast drilling. H. F. Simons. il Oil & Gas J 41:88+ Je 25 '42

Unitized bases for pumps on drilling rig. il Pet Eng 13:80 D '41

Use of ton-mile chart. Oil & Gas J 40:199 Ap 30 '42

Wells of power; improved drilling methods. G. W. Noble. il Tech R 44:224-6+ Mr '42

Wildcat drilling in 1941. F. H. Lahee. bibliog map Oil & Gas J 40:48-9, 51, 53 Ap 23 '42; Same. Am Assn Pet Geologists Bul 26:969-82 Je '42

Patents

Patents on drilling. Inst Pet J 27:430A-2A; 28:22A-3A N '41, Ja '42

Sampling

Critical review of methods for determination of porosity, permeability and saturation of core samples. M. D. Taylor. bibliog Oil & Gas J 40:40-1+ N 20 '41

Instrument for determining the direction of dip in cores taken in inclined holes. C. F. C. Moore and N. F. Brown. diags Inst Pet J 27:419-25 D '41

Interpretation of petroleum core analysis results; abstract. J. A. Lewis. Min & Met 23:458 S '42

PETROLEUM—Well drilling—Sampling—*Cont.*

Orientation of conventionally recovered cores. W. A. Sawdon. il Pet Eng 13:46, 48 Mr '42

Rapid methods of making sedimentological studies of sands, especially as applied to cores; abstract. W. D. Pye. Oil & Gas J 40: 59 Ap 23 '42

Relative costs of electrical logs and cores are variable. Oil & Gas J 41:57 O 8 '42

Well drilling, Indoor

Indoor oil field is planned for Los Angeles tract; proposed to erect concrete building covering approximately 8 acres. L. F. Stockman. Oil & Gas J 40:96 F 26 '42

Indoor oil field one step nearer start. L. P. Stockman. Oil & Gas J 41:78 S 10 '42

Indoor oil field; proposal for tapping pool in Los Angeles. il Business Week p24+ Mr 21 '42

Well drilling, Subaqueous

Drilling in swamp area of Louisiana Gulf coast simplified by use of barges. C. C. Pryor. il diags Pet Eng (Annual no) 13:122, 124, 126 [Jl] '42

Lake exploration extends seven miles from shore, Lake Maracaibo. Oil & Gas J 40:152 D 25 '41

Latest type piling structure for Gulf Coast marine drilling. C. C. Pryor. il diags plan Pet Eng 13:27-30 Je '42

Methods of marine exploitation differ throughout the world. W. A. Sawdon. il Pet Eng 14:76+ O '42

New problems faced in killing off-shore cratered blowout. N. Williams. il diags Oil & Gas J 41:29-32 N 5 '42

Power-driven rig is specially designed for coastal drilling. N. Williams. il Oil & Gas J 41:84-5+ Je 25 '42

Well liners

Determination of slot sizes for liners in Argentine oil fields. D. F. Ramos Ruiz. il Pet Eng 13:23-8 N '41

Economics of gravel-packing in semi-depleted Loma Novia field. D. L. Harlan. diags Pet Eng 13:83-4, 86, 88 Ap '42

Gravel-packing wells to increase production efficiency. L. C. Uren. bibliog(43 titles) Pet Eng (Annual no) 13:81-2+ [Jl] '42

Gravel pre-packed liners. F. A. Graser. il diags Pet Eng (Annual no) 13:36, 39-40, 42 [Jl] '42

New-type multiple-completion technique developed in Illinois. H. F. Simons. il diag Oil & Gas J 41:31-2 Ag 6 '42

Use of explosive cord for cleaning perforations. W. A. Sawdon. il diag Pet Eng 13: 42, 44 Ag '42

Well logging

Application of mud-analysis logging in Gulf Coast area. R. W. Wilson. il Oil & Gas J 41:86-7+ Je 25 '42

Application of time logs to porosity studies in central Kansas wells. J. P. McKee. Oil & Gas J 41:56+ S 3 '42

Caliper logging; abstract. C. P. Parsons. Oil & Gas J 40:51, 53 F 19 '42

Discovery well, Midway field, Lafayette county, Arkansas; log and drilling data. J. I. Roberts. Oil & Gas J 40:33, 35 Mr 5 '42

Drilling records permit increase in drilling rig efficiency. H. F. Simons. il Oil & Gas J 40:29-30 Ja 22 '42

Drilling-time logs and their uses. R. Willis and R. S. Ballantyne, jr. Am Assn Pet Geologists Bul 26:1279-83 Jl '42

Gamma-ray well-logging in Trinidad. G. M. Conklin. Inst Pet J 28:141-5, 172-5 Jl-Ag '42

Journalog. Oil & Gas J 40:33, 35 Mr 5 '42 [cont biweekly]

Locating cased-off productive zones; radioactivity logging. W. A. Sawdon. Pet Eng 13:55-6, 58 My '42

Mud analysis logging in California fields. W. A. Sawdon. il Pet Eng (Annual no) 13:48, 50, 52 [Jl] '42

Neutron logs find porous zones in western Kansas limestones. W. L. Russell and R. B. Downing. Oil & Gas J 41:66 Ag 6 '42

New drilling time recorder provides effective well log. W. A. Sawdon. il Pet Eng 13: 29-30 N '41

Radioactivity logging in California; abstract. J. C. Stick, jr. Oil & Gas J 41:46+ O 22 '42

Radioactivity logging proves help in reworking old wells. diag Oil & Gas J 41:140-2 Je 25 '42

Rate of penetration record facilitates drilling. W. A. Sawdon. il Pet Eng (Annual no) 13: 71, 74 [Jl] '42

Relative costs of electrical logs and cores are variable. Oil & Gas J 41:57 O 8 '42

Thermal logging of producing oil wells. C. R. Dale. Oil & Gas J 40:49-50 Mr 19 '42

Well protection

Safeguarding oil and gas wells against bombing and sabotage. J. O. Farmer. Oil & Gas J 41:49+ Ag 20 '42

Well records

Graphic representation of profits on drilling rig. Oil & Gas J 40:29 Mr 5 '42

Well spacing

Amendment to spacing order affects few Illinois fields. H. E. David. Oil & Gas J 41:66+ Je 11 '42

First location important in view of possible later close spacing. W. V. Howard. il Oil & Gas J 40:18-19 Ja 8 '42

More rulings on well-spacing program expected soon. H. S. Norman. Oil & Gas J 40:14 F 5 '42

Normal 10-acre units favored by amendment M-68-5. W. V. Howard. diags Oil & Gas J 41:20+ S 17 '42

OPC diagrams interpretation of M-68 spacing amendment. diags Oil & Gas J 40:16 Mr 5 '42

OPC given full authority to control well spacing. H. D. Ralph. Oil & Gas J 40:60 D 25 '41

Oil men ask definite spacing program to guide operations. H. S. Norman. Oil & Gas J 40:12 Ja 22 '42

Porosity, specific permeability and the geometry of spacing. P. J. Jones. diags Oil & Gas J 41:45-7 My 28 '42

Priorities; forms upon which operators may apply for exceptions to spacing order M-68. Oil & Gas J 40:16 Ja 8 '42

Problem of well spacing; Houston geological society study group. Am Assn Pet Geologists Bul 26:100-22 bibliog(121 titles, p119-22) Ja '42

Spacing, allowables based on recovery rates and pressure. P. J. Jones. Oil & Gas J 40:37-8+ Mr 5 '42

Spacing regulations modified in Illinois, Indiana, Kentucky. Oil & Gas J 41:17 S 3 '42

Uniform spacing pattern is provided by M-68-5 changes. Oil & Gas J 41:20 O 29 '42

WPB issues amendment no. 3 to conservation order M-68; clarification and relaxation of the uniform well-spacing provisions. Oil & Gas J 40:48 F 26 '42

Well spacing and production interference in West Columbia field, Brazoria county, Texas. J. C. Miller. pl diags maps Am Assn Pet Geologists Bul 26:1441-66 S '42

Well violates 40-acre rule; WPB orders its flow halted. Nat Pet N 34:18 My 13 '42

Bibliography

Well spacing. 7p Tulsa public lib, Technical dept, Tulsa, Okla. '42

Well surveying

Accurate deviation tests reduce drilling costs. Oil & Gas J 41:53 My 21 '42

Application of magnetic method of deflecting-tool orientation. B. Wiess, jr. il diag Oil & Gas J 41:92+ Je 25 '42

Maximum service from well-surveying equipment. diag Oil & Gas J 40:185-6 Ap 30 '42

Well temperature

Thermal logging of producing oil wells. C. R. Dale. Oil & Gas J 40:49-50 Mr 19 '42

PETROLEUM—*Continued*

Well testing

Determination of well capacities from liquid-level data. C. Rodd. bibliog Oil & Gas J 40:47 F 12 '42

Greater precautions needed in tests for water shutoff. H. W. Bell. Oil & Gas J 41:130 Je 25 '42

Well tubing

Paraffin removal by heated oil; steam generator and heat exchanger used. T. P. Sanders. il diag Oil & Gas J 40:33-4 F 19 '42

Production curtailment makes paraffin problem more difficult. P. D. Torrey. il Oil & Gas J 41:143-8 Je 25 '42

Small gun perforator aids in solving production problem. H. L. Flood. il Pet Eng 13:90+ N '41

Tubing perforators to solve special gas-lift problems. G. G. Kingelin. il Oil & Gas J 41:120 Je 25 '42

Africa

Oil possibilities. W. V. Howard. map Oil & Gas J 40:86 D 25 '41

Alabama

Well logs of Alabama; with the oil and gas conservation law of Alabama, and the rules and regulations of the State oil and gas board. E. Bowles. 357p Alabama geological survey, University, Ala. '41

Alberta

Geology of east-central Alberta. G. S. Hume and C. O. Hage. 101p Canada. Dept. of mines and resources, Ottawa '41

Oil industry in Alberta. A. W. Farmilo. bibliog il maps Can Min J 63:17-26 Ja '42

See also
Petroleum industry
and trade—Alberta

Arabia

Cracking oil from Arabia gives high gasoline yield. D. Read, jr. and G. Egloff. Oil & Gas J 40:156, 159 D 25 '41

Arkansas

Developments in north Louisiana and south Arkansas in 1941. B. W. Blanpied and R. T. Hazzard. map Am Assn Pet Geologists Bul 26:1250-76 Jl '42

Discovery well, Midway field, Lafayette county, Arkansas; log and drilling data. J. I. Roberts. Oil & Gas J 40:33, 35 Mr 5 '42

Engineering study of the Magnolia field, Arkansas; abstract. H. F. Winham. Oil & Gas J 40:51 F 19 '42

Importance of Midway field increases steadily. map Oil & Gas J 41:74 Je 4 '42

Laboratory analysis of Midway field crude. Oil & Gas J 40:55 F 19 '42

Midway field discovery, Lafayette county. E. A. Markley and C. N. Valerius. Am Assn Pet Geologists Bul 26:1289-91 Jl '42

Schuler field, Union county. W. B. Weeks and C. W. Alexander. bibliog diags maps Am Assn Pet Geologists Bul 26:1467-1516 S '42

Smackover lime wedge-edge searched for oil deposits. R. Ingram. diag map Oil & Gas J 41:76-8 Ag 27 '42

See also Petroleum laws and regulations—Arkansas

Asia

Oil possibilities. W. V. Howard. map Oil & Gas J 40:85 D 25 '41

Australia

Oil possibilities. W. V. Howard. map Oil & Gas J 40:87 D 25 '41

Brazil

Drilling shows likely prospects in Brazil. E. De Carvalho. Oil & Gas J 40:154-5 D 25 '41

Burma

Destruction of petroleum installations in the East Indies and Burma. W. A. Sawdon. il Pet Eng 14:112, 114, 116 O '42

California

California exploration and development in 1941. J. R. Dorrance. maps Am Assn Pet Geologists Bul 26:1135-54 Je '42

Characteristics of California crude oils. R. C. Mithoff, G. R. MacPherson and F. Sipos. il diags Am Pet Inst Proc 22(3):25-37 '41; Same. Oil & Gas J 40:81-2, 85+ N 6 '41; Abstract. Nat Pet N 33:R362 N 12 '41

Crocker Flat landslide area, Temblor range. R. R. Simonson and M. L. Krueger. bibliog il maps Am Assn Pet Geologists Bul 26:1608-31 O '42

Development of Del Valle oil field; abstract. D. H. Sheldon and R. E. Havenstrite. diag Oil & Gas J 40:43-4 N 13 '41

Discoveries in Los Angeles basin fail to maintain reserves. L. P. Stockman. map Oil & Gas J 41:54-5+ Jl 2 '42

Geology of Del Valle oil field, Los Angeles county. L. A. Tarbet. diags map Am Assn Pet Geologists Bul 26:188-96, pl 1-2 F '42

Geology of the Kettleman Hills oil field, California; stratigraphy, paleontology, and structure. W. P. Woodring, R. Stewart and R. W. Richards. maps U S Geol S Professional Pa 195:1-170, pl 1-57; pa $1.50 Supt. of doc. '40

Los Angeles basin earthquake of Oct. 21, 1941, and its effect on certain producing wells in Dominguez field, Los Angeles county. K. M. Bravinder. il diags maps Am Assn Pet Geologists Bul 26:388-99 Mr '42

1941 supplement to Sutter (Marysville) Buttes development, Sutter county. W. Stalder. diag map Am Assn Pet Geologists Bul 26:852-6 My '42

Progress of stratigraphic studies in California. E. R. Atwill. diags Am Assn Pet Geologists Bul 26:153-61, pl 1-4 F '42

Typical oil-field structures; regular anticlinal fold, Kettleman Hills field. diags map Oil & Gas J 41:50-1 Je 4 '42

See also
Petroleum industry
and trade—California

Canada

Oil for the Alaska highway. J. Montagnes. Science 96:sup12 O 2 '42

Oil possibilities. W. V. Howard. map Oil & Gas J 40:88 D 25 '41

Caribbean region

Oil possibilities. W. V. Howard. map Oil & Gas J 40:83 D 25 '41

China

Non-marine origin of petroleum in North Shensi, and the cretaceous of Szechuan. C. H. Pan. bibliog Am Assn Pet Geologists Bul 25:2058-68 N '41

Colombia

Geology of Honda district. J. W. Butler, jr. il diag map Am Assn Pet Geologists Bul 26:793-837 bibliog(p836-7) My '42

Colorado

Late paleozoic stratigraphy of Gore area. K. G. Brill, jr. bibliog diags maps Am Assn Pet Geologists Bul 26:1375-97 Ag '42

Possibility of future discoveries in eastern Colorado. F. N. Bosco. diags maps Oil & Gas J 40:66-8 Ap 16 '42

Wyoming discovery directs attention to Lakota sand. T. R. Ingram. map Oil & Gas J 41:25+ O 29 '42

East Indies

East Indies oil territory is largely in Jap control. Oil & Gas J 40:18 F 19 '42

Eastern states

Developments in Appalachian area during 1941. maps Am Assn Pet Geologists Bul 26:1110-34 Je '42

PETROLEUM—*Continued*

Europe

Oil possibilities. W. V. Howard. map Oil & Gas J 40:84 D 25 '41

Florida

Stratigraphic and paleontologic studies of wells in Florida. W. S. Cole. (Geological bul. 19) 91p Dept. of conservation, State geological survey, Tallahassee, Fla. '41

Gulf Coast region

Complete report of Gulf Coast field development; tables and maps. Oil & Gas J 41: 94-6, 98-9, 102-4 Je 25 '42

Gulf Coast section. il Oil & Gas J 41:82-9+ Je 25 '42

Marine sedimentation and oil accumulation on Gulf coast; progressive marine overlap. D. S. Malkin and D. A. Jung. diags maps Am Assn Pet Geologists Bul 25:2010-20 N '41

Review of the heaving-shale problem in the Gulf Coast region. G. Wade. bibliog fold map U S Bur Mines Rep of Invest 3618:1-64 '42

See also Petroleum industry and trade—Gulf Coast region

Illinois

Developments in eastern interior basin in 1941. A. H. Bell. maps Am Assn Pet Geologists Bul 26:1086-96 Je '42

Discovery well, Covington pool, Wayne county; log and drilling data. Oil & Gas J 41: 173 Jl 30 '42

Geologic distribution of oil in the Illinois basin. B. F. Hake. maps Oil & Gas J 40: 63, 65-6 Ap 23 '42

Illinois' production trend may be reversed. H. F. Simons. Oil & Gas J 41:16-17+ Je 18 '42

Lateral variation in Chester sandstones producing oil and gas in lower Wabash river area, with special reference to New Harmony field, Illinois and Indiana. G. V. Cohee. maps Am Assn Pet Geologists Bul 26:1594-1607 O '42

Role of fundamental geologic principles in the opening of the Illinois basin. A. H. Bell. maps Econ Geol 36:774-85 D '41

Symposium on Illinois oil features technical sessions; American institute of mining and metallurgical engineers. Oil & Gas J 41: 25+ O 8 '42

See also
Petroleum industry
and trade—Illinois

Indiana

Geologic distribution of oil in the Illinois basin. B. F. Hake. maps Oil & Gas J 40: 63, 65-6 Ap 23 '42

Lateral variation in Chester sandstones producing oil and gas in lower Wabash river area, with special reference to New Harmony field, Illinois and Indiana. G. V. Cohee. maps Am Assn Pet Geologists Bul 26:1594-1607 O '42

Kansas

Exploration for oil and gas in western Kansas during 1940. W. A. Ver Wiebe. 109p Kansas. Geological survey, Univ. of Kansas, Lawrence '41

Kansas wildcat campaign keeps near proven areas. map Oil & Gas J 41:66-7 Je 18 '42

McLouth gas and oil field, Jefferson and Leavenworth counties. W. Lee. Am Assn Pet Geologists Bul 26:133-5 Ja '42

Neutron logs find porous zones in western Kansas limestones. W. L. Russell and R. B. Downing. Oil & Gas J 41:66 Ag 6 '42

Patterson pool, Kearny county. M. D. Hubley. Am Assn Pet Geologists Bul 26:400-1 Mr '42

South Kansas discoveries open shallow Pennsylvanian trend. Oil & Gas J 41:56 Jl 9 '42

Typical oil-field structures; unconformities; Zenith, Wherry and Hollow-Nikkel fields, Kansas. diags maps Oil & Gas J 41:64b-64c O 1 '42

Well logs and field data of active oil areas; western and central Kansas. diag map Oil & Gas J 40:48b-48c D 4 '41

See also
Petroleum industry
and trade—Kansas

Kentucky

Geologic distribution of oil in the Illinois basin. B. F. Hake. maps Oil & Gas J 40: 63, 65-6 Ap 23 '42

Louisiana

Developments in north Louisiana and south Arkansas in 1941. B. W. Blanpied and R. T. Hazzard. map Am Assn Pet Geologists Bul 26:1250-76 Jl '42

Review of developments in 1941, Gulf coast of upper Texas and Louisiana. O. L. Brace. map Am Assn Pet Geologists Bul 26:983-90 Je '42

Typical oil-field structures; complexly faulted dome, Eola field, Avoyelles parish. diag maps Oil & Gas J 41:50-1 My 21 '42

See also Petroleum industry and trade—Louisiana

Mexico

Oil possibilities. W. V. Howard. map Oil & Gas J 40:83 D 25 '41

See also
Mexico—Expropriation policy

Michigan

Discovery well, Winterfield field, Clare county, Michigan; log and drilling data. Oil & Gas J 41:57-8 O 29 '42

Oil and gas developments in Michigan during 1941. R. P. Grant. maps Am Assn Pet Geologists Bul 26:1097-1109 Je '42

Oil discovery Evart pool, Osceola county; log and drilling data. Oil & Gas J 41:41 Jl 2 '42

Reconnaissance study of the Adams oil field, Arenac county; abstract. L. H. Esch, R. P. Grant and L. S. Miller. Oil & Gas J 41:45 N 5 '42

Mid-continent field

Developments in North Mid-continent in 1941. E. A. Koester. Am Assn Pet Geologists Bul 26:1073-85 Je '42

Middle western states

Developments in eastern interior basin in 1941. A. H. Bell. maps Am Assn Pet Geologists Bul 26:1086-96 Je '42

Mississippi

Developments in southeastern United States in 1941. U. B. Hughes. maps Am Assn Pet Geologists Bul 26:991-9 Je '42

New Mississippi refinery processes Tinsley crude in combination unit. W. T. Ziegenhain. flow chart il Oil & Gas J 40:33 Ja 22 '42

Montana

Oil-field waters of Montana plains. J. G. Crawford. diags map Am Assn Pet Geologists Bul 26:1317-74 Ag '42

Stratigraphy and insoluble residues of Madison group (Mississippian) of Montana. L. L. Sloss and R. H. Hamblin. bibliog il pls diags map Am Assn Pet Geologists Bul 26:305-35 Mr '42

Test on Cedar Creek anticline, southeastern Montana. O. A. Seager. Am Assn Pet Geologists Bul 26:861-4 My '42

Typical oil-field structures; sedimentation trap; Cut Bank, Montana. diag maps Oil & Gas J 41:34-5 N 5 '42

Near East

Major oil fields of Near East long way from Nazi forces. J. P. O'Donnell. map Oil & Gas J 41:11 Jl 9 '42

PETROLEUM—Near East—*Continued*

Oil from the Garden of Eden; struggle for control of petroleum in the Near East; reconstruction of Biblical events. W. T. Foran. il diags plan maps Pet Eng 14:85-6+ O '42

Oil is the prize of victory. il Fortune 25: 70-1 F '42

Oil possibilities. W. V. Howard. map Oil & Gas J 40:86 D 25 '41

Nebraska

Thickness and structural study of major divisions of cretaceous system in Nebraska. P. Fuenning. bibliog maps Am Assn Pet Geologists Bul 26:1517-36 S '42

Wyoming discovery directs attention to Lakota sand. T. R. Ingram. map Oil & Gas J 41:25+ O 29 '42

Netherlands Indies

Destruction of petroleum installations in the East Indies and Burma. W. A. Sawdon. il Pet Eng 14:112, 114, 116 O '42

Oil possibilities. W. V. Howard. map Oil & Gas J 40:87 D 25 '41

Security of East Indian oil important to allied victory. J. P. O'Donnell. il map Oil & Gas J 40:14-16+ Ja 15 '42

New Mexico

Crude oils of New Mexico; tabulated data. E. C. Lane. U S Bur Mines Rep of Invest 3660:1-30 '42

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26: 535-763 Ap '42

West Texas and southeastern New Mexico development in 1941; West Texas geological society committee. bibliog map Am Assn Pet Geologists Bul 26:1007-39 Je '42

North America

Possible future oil provinces of the United States and Canada, a symposium. A. I. Levorsen, ed. 154p $1.50; to members $1 Am. assn. of petroleum geologists, Tulsa, Okla. '41

North Dakota

Regional geology of Dakota basin. N. Ballard. maps Am Assn Pet Geologists Bul 26:1557-84 O '42

Selected deep well records. W. M. Laird, comp. (Geological survey bul. 12) 31p Univ. of North Dakota press, Grand Forks '41

Stratigraphy of North Dakota. V. H. Kline. bibliog diags maps Am Assn Pet Geologists Bul 26:336-79 Mr '42; Discussion. 26:1414-23 Ag '42

Oklahoma

Alma oil co. 1 Deroin; discovery well, unnamed pool, Pawnee county; log and drilling data. J. E. Trigg. Oil & Gas J 41:57 My 21 '42

Analyses of crude oils from some fields of Oklahoma. E. L. Garton. U S Bur Mines Rep of Invest 3592:1-27 '41

Developments in Oklahoma during 1941. J. L. Borden. map Am Assn Pet Geologists Bul 26:1058-72 Je '42

Discovery well, Brooksville pool, Pottawatomie county; log and drilling data. Oil & Gas J 41:61-2 Je 4 '42

Discovery well of Guthrie Townsite pool, Logan county; log and drilling data. Oil & Gas J 41:55-6 O 15 '42

Subsurface geology and oil and gas resources of Osage county; parts of township 20 north, ranges 9 and 10 east, and township 21 north, ranges 8 and 9 east, and all of township 21 north, range 10 east. C. T. Kirk and others. U S Geol S Bul 900-H:269-302; pa 35c Supt. of doc. '41

Subsurface geology and oil and gas resources of Osage county; townships 20 and 21 north, ranges 11 and 12 east. W. R. Dillard, N. W. Bass and C. T. Kirk. fold map U S Geol S Bul 900-G:237-68, pl 7; pa 30c Supt. of doc. '41

Subsurface geology and oil and gas resources of Osage county; townships 23 and 24 north, range 7 east. N. W. Bass and others. fold map U S Geol S Bul 900-I:303-19, pl 9; pa 25c Supt. of doc. '41

Typical oil-field structures; buried sand bar, Burbank field, Osage county. maps Oil & Gas J 41:54-5 Ag 20 '42

Typical oil-field structures; truncated faulted anticline, Oklahoma City field. diag maps Oil & Gas J 40:56B-56C My 7 '42

See also Petroleum industry and trade—Oklahoma

Pennsylvania

Oil and gas geology of the Franklin quadrangle. R. E. Sherrill and L. S. Matteson. 71p Dept. of internal affairs, Topographic and geologic survey, Harrisburg, Pa. '41

Oil experiment; horizontal drilling will get thorough tryout in Pennsylvania. Business Week p61-2 Ap 11 '42

Oil mania; sketches from the early Pennsylvania oil fields. E. C. Miller. 140p bibliog(p139-40) $2 Dorrance & co., Philadelphia '41

Secondary recovery governs future of Pennsylvania fields. P. A. Dickey and L. S. Matteson. Oil & Gas J 40:54-5+ D 18 '41

See also Petroleum industry and trade—Pennsylvania

Rumania

See also Petroleum industry and trade—Rumania

Russia

Axis forces are still far from Caucasian fields. J. P. O'Donnell. il map Oil & Gas J 41:20-1 Je 4 '42

South America

Oil possibilities. W. V. Howard. map Oil & Gas J 40:82 D 25 '41

South Dakota

Regional geology of Dakota basin. N. Ballard. maps Am Assn Pet Geologists Bul 26:1557-84 O '42

Viola well core from South Dakota. C. E. Decker. il Am Assn Pet Geologists Bul 26: 123-6 Ja '42

Southern states

Developments in southeastern United States in 1941. U. B. Hughes. maps Am Assn Pet Geologists Bul 26:991-9 Je '42

Texas

Bad news for oil; amazing east Texas field shows strong signs of petering out. Business Week p28 Mr 14 '42

Barnhart field, Reagan county. T. Cole. Am Assn Pet Geologists Bul 26:387-8 Mr '42

Clodine field, Fort Bend county. J. O. Colle. Am Assn Pet Geologists Bul 25:2057-8 N '41

Developments in east Texas during 1941. F. R. Denton and R. M. Trowbridge. map Am Assn Pet Geologists Bul 26:1050-7 Je '42

Discovery of Ellenburger production in the M-bar field, west Texas; log and drilling data. Oil & Gas J 41:55-6 Je 18 '42

Discovery well Consolidated (Mississippian) field, Wilbarger county; logging and drilling data. Oil & Gas J 40:55-6 Ap 16 '42

Discovery well, Harmon field, Jackson county; log and drilling data. Oil & Gas J 41:47-8 S 3 '42

Discovery well, Harrold field, Wilbarger county; log and drilling data. Oil & Gas J 41:55 Jl 16 '42

Discovery well of Barnhart field, Reagan county, west Texas; log and drilling data. Oil & Gas J 40:59-60 Mr 19 '42

Discovery well of Black Oak (coke) field, Woods county; log and drilling data. Oil & Gas J 41:51-2 O 1 '42

Discovery well of New York City field, Clay county, north Texas; log and drilling data. Oil & Gas J 40:51-2 Ap 2 '42

PETROLEUM—Texas—*Continued*

Discovery well of Salona pool, Montague county, Texas; log and drilling data. Oil & Gas J 41:55-6 Ag 13 '42

Discovery well Spring Field, Clay county, north Texas; log and drilling data. Oil & Gas J 40:203-4 Ap 30 '42

Discovery well, unnamed pool, Jack county; log and drilling data. Oil & Gas J 41:53-4 Je 11 '42

East Texas wildcat campaign only moderately successful. R. Ingram. map Oil & Gas J 41:82-3+ My 28 '42

Economics of gravel-packing in semi-depleted Loma Novia field. D. L. Harlan. diags Pet Eng 13:83-4, 86, 88 Ap '42

McKee and Waddell sands, Simpson group, west Texas. T. Cole, C. D. Cordry and H. A. Hemphill. diags Am Assn Pet Geologists Bul 26:279-82 F '42

Mayo field, Jackson county; log and drilling data. Oil & Gas J 41:207-8 Je 25 '42

New developments in north and west-central Texas, 1941. map Am Assn Pet Geologists Bul 26:1040-9 Je '42

Payton pool, Pecos and Ward counties. R. E. Gile. maps Am Assn Pet Geologists Bul 26:1632-46 O '42

Permian of west Texas and southeastern New Mexico. P. B. King. bibliog il diags maps fold chart Am Assn Pet Geologists Bul 26:535-763 Ap '42

Petroleum engineering study of the Anahuac field, Chambers county, Texas. C. B. Carpenter and H. J. Schroeder. il diags maps U S Bur Mines Rep of Invest 3579:1-37 '41; Excerpts. Pet Eng 13:94 Ja '42

Review of developments in 1941, Gulf coast of upper Texas and Louisiana. O. L. Brace. map Am Assn Pet Geologists Bul 26:983-90 Je '42

Smackover lime wedge-edge searched for oil deposits. R. Ingram. diag map Oil & Gas J 41:76-8 Ag 27 '42

Subsurface geology of Sewell-Eddleman area, Young county, Texas. P. L. Applin and R. F. Imbt. pls diags Am Assn Pet Geologists Bul 26:204-16 F '42

Subsurface study of Ellenburger formation in west Texas. T. Cole. bibliog diags maps Am Assn Pet Geologists Bul 26:1398-1409 Ag '42

Texas refiners are ordered to get utmost naphtha yield from aviation type crudes. Nat Pet N 34:6 Ja 14 '42

Twenty per cent of Texas oil labeled aviation base. Oil & Gas J 40:26 Ja 15 '42

Typical oil-field structures; fault line, Luling and Powell fields. diags maps Oil & Gas J 41:32b-32c S 17 '42

Typical oil-field structures; massive limestone high, Yates field, Pecos county. diags map Oil & Gas J 40:48b-48c Ap 23 '42

Typical oil-field structures, salt dome, Esperson and Barbers Hill, coastal Texas. diags map Oil & Gas J 41:42-3 Ag 6 '42

Typical oil-field structures; truncated shore line, east Texas field. diags map Oil & Gas J 41:48B-48C O 15 '42

Upper Pennsylvanian anhydrite, west Texas. R. Roth. Am Assn Pet Geologists Bul 26:1412-13 Ag '42

Washburn field, La Salle county, Texas. W. K. Esgen. Am Assn Pet Geologists Bul 26:276-9 F '42

Well, Jackson county, Texas Gulf Coast district; log and drilling data. Oil & Gas J 41:57-8 S 17 '42

Well logs and field data of prospective oil areas; north section Permian basin. Oil & Gas J 40:52b-52c N 20 '41

Well spacing and production interference in West Columbia field, Brazoria county. J. C. Miller. pl diags maps Am Assn Pet Geologists Bul 26:1441-66 S '42

West Texas and southeastern New Mexico development in 1941; West Texas geological society committee. bibliog map Am Assn Pet Geologists Bul 26:1007-39 Je '42

Wilcox trend play may extend into south central Texas. F. L. Singleton. map Oil & Gas J 41:72+ Je 4 '42

See also
Petroleum—Gulf Coast region
Petroleum industry and trade—Texas

United States

New oil reserves in '41 totaled 2 billion bbls. Comm & Fin Chr 155:1342 Ap 2 '42

See also
Petroleum industry and trade—United States
Petroleum supply—United States

Venezuela

Hombre Pintado, Venezuela. G. W. Halse. pls diag map Inst Pet J 28:36-40 F '42

See also Petroleum industry and trade—Venezuela

West Virginia

Typical oil-field structures monocline; Cabin Creek field, Kanawha county. diags maps Oil & Gas J 41:32b-32c S 3 '42

Wyoming

Geology and oil and coal resources of the region south of Cody Park county, Wyoming. W. G. Pierce and D. A. Andrews. diags map U S Geol S Bul 921-B:99-180, pl 11-24; pa $1 Supt. of doc. '41

Wyoming discovery directs attention to Lakota sand. T. R. Ingram. map Oil & Gas J 41:25+ O 29 '42

PETROLEUM coke

Primary gaseous products of carbonisation. K. Bolton and others. Chem Soc J p252-63 Ap '42

PETROLEUM coordinator, Office of. See United States—Petroleum coordinator, Office of

PETROLEUM corporation of America

Annual report. Comm & Fin Chr 155:640 F 10 '42

PETROLEUM distillation

Acetylene and other war chemicals made by cracking in a regenerative furnace. diags Nat Pet N 34 pt 2:R270-2, R274-6 Ag 26 '42

Adaptation of the Houdry process provides continuous cracking; Thermofor process. il Nat Pet N 34 pt2:R210 Jl 29 '42

Catalyst revived continuously to improve war-product yields; modifying Houdry catalytic cracking procedure. J. P. O'Donnell. il Oil & Gas J 41:44-5 Je 4 '42

Catalytic chemistry in World war II; developments centre in petroleum technology. H. S. Taylor. Can Chem & Process Ind 26:339-40 Je '42

Composition of catalytically cracked gasolines. J. R. Bates and others. bibliog Ind & Eng Chem 34:147-52 F '42

Cracking of petroleum hydrocarbons. L. J. Willien. Gas Age 90:13-14+ N 5 '42

Cracking oil from Arabia gives high gasoline yield. D. Read, jr. and G. Egloff. Oil & Gas J 40:156, 159 D 25 '41

Development of the new chemical industry based upon petroleum. R. H. H. Morley. bibliog Soc Dyers & Col J 58:133-7; Discussion. 137 Jl '42

Five steps for making butadiene in thermal cracking furnaces. il Nat Pet N 34:18+ Ag 5 '42

Midget refinery processes crude from pipelines into fuel for pumping station engines. diag Nat Pet N 34 pt2:R206-7 Jl 29 '42

Optical rotation of petroleum fractions. M. R. Fenske and others. bibliog Ind & Eng Chem 34:638-46 My '42

Phase behavior of the acetylene-ethylene system. S. W. Churchill, W. G. Collamore and D. L. Katz. bibliog diag Oil & Gas J 41:33-4, 36+ Ag 6 '42

Phase equilibria at high temperatures. R. R. White and G. G. Brown. flow diag bibliog diags Ind & Eng Chem 34:1162-74 O '42; Same. Nat Pet N 34 pt 2:R374, R376-8, R380-1, R432-5 O 28, N 25 '42

PETROLEUM distillation—*Continued*

Precise commercial fractionation in 1,000-barrel Stedman unit. L. B. Bragg and F. Morton. bibliog flow sheet il Am Pet Inst Proc 22(3):38-43 '41; Same. Nat Pet N 33: R355-6, R358 N 12 '41; Discussion. Am Pet Inst Proc 22(3):43-4 '41

Production of acetylene by thermal cracking of petroleum hydrocarbons. R. L. Hasche. bibliog il diags Chem & Met Eng 49:78-83 Jl '42

Reaction chambers on thermal cracking units. R. C. Mithoff and L. F. Schimansky. flow diag Am Pet Inst Proc 22(3):52-7 '41; Same. Oil & Gas J 40:135-6+ N 6 '41; Excerpts. Nat Pet N 33:R360+ N 12 '41; Discussion. Am Pet Inst Proc 22(3):57-8 '41

Recent advances of catalysis in chemical process industries; recent applications. bibliog flow sheet Chem & Met Eng 49:106-10 O '42

Refinery practice for the operating man; vocational class proceedings in refinery engineering (cont). flow sheets Pet Eng 13: 53-4, 57, 60 D '41; 31-2, 34, 36 Ja; 94, 96, 99-100 F; 38+ Mr; 123-4 My; 104, 106, 108 29-30 Jl; 36, 38, 40 Ag; 74, 76, 78+ S; 14: 60, 62+ O; 98, 100 N '42

Thermodynamic properties of light hydrocarbons. D. E. Holcomb and G. G. Brown. bibliog diags Ind & Eng Chem 34:590-602 My '42

See also

Gasoline—Manufacture

Petroleum refining

Tables, calculations, etc.

Crude naphtha stabilizer performance. J. Q. McGiffin. flow diag bibliog il diags Am Inst Chem Eng Trans 38:761-88 Ag '42; Same. Nat Pet N 34 pt 2:R277-80, R282, R284-5 Ag 26 '42; Discussion. Am Inst Chem Eng Trans 38:789-90 Ag '42

New method for the determination of equivalent cracking conditions for commercial cracking reactions. S. L. Neppe. bibliog Inst Pet J 28:27-35 F '42

Pressure-temperature relations of petroleum fractions. W. L. Nelson and W. Haltenberger, jr. bibliog Oil & Gas J 41:38-40 Je 11; 40-2 Je 18 '42

PETROLEUM electric power association

Annual meeting, Dallas, Dec. 4-5. Elec W News ed 116:1971 D 20 '41

PETROLEUM engineering

Abstracts of papers; Petroleum division of the American society of mechanical engineers, spring meeting, Houston, March 23-25. Oil & Gas J 40:38 Ap 2 '42

Abstracts of papers presented at American institute of mining and metallurgical engineers, Petroleum division, fall meeting. Oil & Gas J 41:13, 24, 45, 47-8 N 5 '42

Abstracts of papers presented at meeting of Petroleum division, southern California section, American institute of mining and metallurgical engineers, Los Angeles, Oct. 15-16. Oil & Gas J 41:46+ O 22 '42

Abstracts of papers presented at Petroleum section, A.I.M.E. Oil & Gas J 40:42-3, 45-7 F 12; 51, 53 F 19 '42

Arkansas' oil and gas industry managed on engineering basis. A. M. Crowell. il Pet Eng (Annual no) 13:55-6+ [Jl] '42

Central separator provides flexible control at Paradis. N. Williams. il Oil & Gas J 40:29-30 F 12 '42

Development, operation and valuation of oil and gas properties. P. J. Jones. diags Oil & Gas J 41:45-7 My 28; 53-4 Je 4; 35-7 Je 11; 35-6+ Je 18; 197-8 Je 25; 34-5 Jl 2; 25 Jl 9; 44, 47+ Jl 16; 35-6 Jl 23; 163-4 Jl 30; 39-40 Ag 6; 48+ Ag 13; 43-4 Ag 20 '42

Digests of A.P.I. papers; Southwestern district, Division of production, Dallas, Feb. 26-27. Oil & Gas J 40:47 Mr 5 '42

Economy features Texas Panhandle operations. H. F. Simons. il Oil & Gas J 40: 31-2 Ja 8 '42

Efficiency increased by rig unitization. D. H. Stormont. il Oil & Gas J 40:49 F 5 '42

Engineering fundamentals. Oil & Gas J 40: 51-2 Mr 12 '42 [cont weekly]

Multiple-zone completions. E. O. Bennett. diags Oil & Gas J 40:27-8, 42 Mr 5 '42

New methods in completion and drilling on Gulf coast. P. D. Torrey. il Oil & Gas J 41:82-3, 148-56 Je 25 '42

Newest techniques in drilling, production, transportation and refinery engineering; newest practices in exploration and in manufacture of natural gasoline; text in English and Spanish. il Oil & Gas J 40: 170-269 D 25 '41

Petroleum refinery engineering. W. L. Nelson. 2d ed 715p $6 McGraw-Hill '41

Production engineering becoming increasingly efficient. A. W. Walker. il Min & Met 23:91-3 F '42

Productivity of oil wells and inherent influence of gas: oil ratios and water saturation. R. V. Higgins. pls U S Bur Mines Rep of Invest 3657:1-50 '42

Progress in reservoir technology. M. Muskat. Pet Eng 13:27-30 Ag; 40+ S; 14:35-6 O; 65+ N '42

Repairing and redrilling oil wells. J. R. Thomas. Pet Eng 13:46+ Ag '42

Saving the oil; benefits from modern practices in production. T. V. Moore. il Tech R 44:124-6+ Ja '42

Trend in operating technique points to major advances. H. F. Simons. il Oil & Gas J 41:10-11, 45-6 O 1 '42

Value and accuracy of field measurements. C. J. May and R. Pike. Inst Pet J 28:133-40 Jl '42

Well spacing and production interference in West Columbia field, Brazoria county, Texas. J. C. Miller. pl diags maps Am Assn Pet Geologists Bul 26:1441-66 S '42

See also

Petroleum—Production methods

Petroleum—Prospecting

Petroleum—Pumping

Petroleum—Well drilling

Petroleum distillation

Petroleum pipe lines

Petroleum refining

Accounting

Cost engineering. Oil & Gas J 40:29, 31 Mr 5 '42 [cont weekly]

Bibliography

Progress report on standards of allocation of oil production within pools and among pools. p77-92 Central committee on drilling and production practice, Division of production, Am. petroleum inst, Dallas, Tex. '42

Power

Application of data from steam engine indicators. G. M. Stearns. diags Oil & Gas J 41:53 O 15 '42

Benefits of superheated steam. G. M. Stearns. Oil & Gas J 41:55 S 17 '42

Boiler maintenance largely a matter of elementary dont's. il Oil & Gas J 40:182-4 Ap 30 '42

Capacity of steam boilers. G. M. Stearns. Oil & Gas J 41:63 Ag 27 '42

Central generating plant installed at Big Lake field. D. H. Stormont. il Oil & Gas J 40: 41+ F 5 '42

Determining brake horsepower. G. M. Stearns. diag Oil & Gas J 41:55 O 29 '42

Diesel-electric drilling rig designed for simplicity. J. P. Van Vorst. il diag Pet Eng 14: 46+ O '42

D-c oil well drill rig on skids. L. D. Banderob and P. L. Savage. il diag Elec West 89:51-2 O '42

Effect of power factor on cost. Oil & Gas J 40:75 Ap 23 '42

Efficiency of steam boilers. G. M. Stearns. Oil & Gas J 41:69 S 10 '42

Energy and work. G. M. Stearns. diags Oil & Gas J 41:46 Jl 9 '42

Finding mean effective pressure. G. M. Stearns. diags Oil & Gas J 41:69 O 22 '42

Gas-engine plant powers an oil field; Magnolia petroleum co. il Power 86:60-1 Ja '42

PETROLEUM engineering—Power—*Continued*

Hydraulic pumping is applied to deep wells on Gulf coast. C. E. Buchner, jr. il Oil & Gas J 41:136+ Je 25 '42

Indicated engine horsepower. G. M. Stearns. Oil & Gas J 41:70 O 22 '42

Installing boiler blow-down receiver and piping. J. C. Albright. il Pet Eng 13:73 Ag '42

Power and efficiency. G. M. Stearns. Oil & Gas J 41:57 Jl 16 '42

Power-driven rig is specially designed for coastal drilling. N. Williams. il Oil & Gas J 41:84-5+ Je 25 '42

Preheating of boiler feed water. G. M. Stearns. Oil & Gas J 41:70 S 10 '42

Proper engine sizes save fuel. Oil & Gas J 41:45 S 3 '42

Properties of saturated steam. G. M. Stearns. Oil & Gas J 41:171 Jl 30 '42

Properties of superheated steam. G. M. Stearns. Oil & Gas J 41:53 Ag 13 '42

Systematic checking guards against engine deterioration. il Oil & Gas J 40:109, 111, 115+ Ap 30 '42

Torque converters applied to drilling and servicing rigs. T. P. Sanders. il Oil & Gas J 41:25-6+ Jl 2 '42

Wells in Big Lake field now pumped by power from new generating plant. F. H. Love. il Pet Eng 13:53-4. 56+ F '42

See also

Electricity in the petroleum industry

Petroleum refineries—Power

Study and teaching

So you want to be a petroleum engineer? planning the college course. L. C. Uren. Pet Eng 13:82+ F; 156+ Mr; 76-8, 81 Ap; 31-4 My; 86+ Je; 25-8 Jl '42

Training in refining engineering is growing in U.S. schools. Nat Pet N 34:R92, R94+ Mr 18 '42

Tables, calculations, etc.

Calculation of pressure of fluid column outside of casing. diags Oil & Gas J 40:49 Ap 2 '42

Calculation of the rate of water influx in water-drive fields; abstract. W. Hurst. Oil & Gas J 40:53 F 19 '42

Estimating oil reserves from production-decline rates; tables. P. J. Jones. Oil & Gas J 41:48+ Ag 13 '42

Mathematical correlation of the paraffins. P. Buthod and others. Oil & Gas J 41:38 O 1 '42

Petroleum engineer's continuous tables. Published in monthly numbers of Petroleum engineer

Remodeled slide rule speeds gas-volume computation. il Oil & Gas J 40:50 F 19 '42

Terminology

Glossary of terms relating to reservoir behavior. Am Pet Inst Proc 22(4):86-96 '41

PETROLEUM engineers

Industry's technical personnel hit hardest by war service. J. P. O'Donnell. Oil & Gas J 41:30+ Jl 16 '42

So you want to be a petroleum engineer? L. C. Uren. Pet Eng 13:27-30 Ja; 82+ F; 156+ Mr; 76-8, 81 Ap; 31-4 My; 86+ Je; 25-8 Jl '42

PETROLEUM equipment industries

Earnings in manufacture of oil-field machinery, February-March 1942. O. C. Clark and G. E. Votava. Monthly Labor R 55: 578-84 S '42

Marketing equipment makers seek place in OPC's advisory set-up. Nat Pet N 33:15 D 24 '41

Nomads' aims assuming increasing importance. Pet Eng 14:132 O '42

Oil equipment supply houses get A-8 priority rating; complete text. Nat Pet N 33:40-1 D 10 '41

Red tape cut in regulations on exports of petroleum equipment to Latin-American countries. H. D. Ralph. Oil & Gas J 40: 75+ D 25 '41

Standardization program for Association of well head equipment manufacturers. Pet Eng 13:97-9 Jl '42

Vast replenishment foreseen; post-war rehabilitation expected to tax facilities. W. A. Sawdon. Pet Eng 14:126 O '42

Directories

Directory of export organizations. Oil & Gas J 40:162, 164, 167 D 25 '41

Newest techniques; equipment catalog; text in English and Spanish. il Oil & Gas J 40: 173-287 D 25 '41

PETROLEUM geologists. See Geologists, Petroleum

PETROLEUM geologists, American association of. See American association of petroleum geologists

PETROLEUM industry and trade

Agriculture and the petroleum industry; abstract. C. Reynolds. Chem Ind 50:509-10 Ap '42

Elements of the petroleum industry. E. L. DeGolyer, ed. 519p bibliog(p502-12) $5; to members $2.50 A.I.M.E. '40

Oil industry in war. S. Devlin. il Mag of Wall St 69:310-13+ D 27 '41

Oil operators outside U.S. to get priority aid. Oil Paint & Drug Rep 141:7+ Ja 26 '42

War makes radical changes in world-production picture. J. P. O'Donnell. il Oil & Gas J 41:56-7 Jl 30 '42

World's petroleum industry resists strains of war. J. P. O'Donnell and H. S. Norman. il map Oil & Gas J 40:69-72 D 25 '41

See also

Electricity in the petroleum industry

Gas oil

Gasoline industry

Lubricating oil industry

Oil fuel industry

Oil industries

Petroleum—Prices

Petroleum laws and regulations

Petroleum supply

also American institute of mining and metallurgical engineers—Petroleum division; American petroleum institute

Accidents

Accident costs also involve damage to equipment. Oil & Gas J 41:49 N 5 '42

Annual summary of injuries in the petroleum industry for 1941. 18p Am. petroleum inst, Dept. of accident prevention, 50 W. 50th st, New York '42

Oil industry's accident rate drops 3% in severity in '41. Nat Pet N 34:34 S 2 '42

Accounting

Accounting for leasehold costs in the petroleum industry. L. C. Haynes. J Account 73:327-39 Ap '42

Chart for determining time to pay out investment. Oil & Gas J 40:69 My 7 '42

Cost engineering. Oil & Gas J 40:29, 31 Mr 5 '42 [cont weekly]

Determination of income from undeveloped property. Oil & Gas J 41:203 Je 25 '42

Replacement calculation using sinking fund depreciation. Oil & Gas J 40:233 Mr 26 '42

Bibliography

Beginnings of the petroleum industry; sources and bibliography. P. H. Giddens. 195p pa 50c Pennsylvania historical commission, Harrisburg '41

Petroleum industry and trade. (Business literature v 15, no 2) 2p Business branch, Newark public lib, Newark, N.J. O '42

Petroleum industry of the United States. A. L. Baden, comp. 60p U.S. Lib. of Congress, Division of bibliography, Washington '42 [free to institutions only]

Costs

Adverse cost factors in oil. Barron's 22:10 Je 22 '42

Average daily costs for rotary rigs are high. Oil & Gas J 41:45 Jl 23 '42

Compensation insurance costs, an important factor. Oil & Gas J 41:43 Jl 23 '42

PETROLEUM industry and trade—Costs—*Cont.*

Cost study of Fort Collins-Wellington, Colo., field. F. N. Bosco. maps Oil & Gas J 40:50-2 Ja 15 '42; Discussion (Cost of producing oil). E. Bloesch. 40:37 F 12 '42

Directories

Directory of government oil agencies. Oil & Gas J 41:73+ Jl 30 '42

See also

Petroleum equipment industries—Directories

Petroleum refineries—Directories

Employees

See Petroleum refineries—Employees; Petroleum workers

Equipment and supplies

A-1-A and A-2 ratings given industry in order P-98-B. Oil & Gas J 41:12-13+ S 17 '42

Allocation control probable on major operating supplies. G. W. Orton. Oil & Gas J 41:17 O 29 '42

Allocation plan may ease fetters on oil equipment. H. D. Ralph. Oil & Gas J 40:20+ N 13 '41

Automatic discharge from salt-water pits in the east Texas field. il Oil & Gas J 41:42 Ag 13 '42

Camouflage on the oil front. M. L. Gendel. il Oil & Gas J 41:39, 41 Ag 13 '42

Conservation order M-68; amendments and forms. Pet Eng 13:102, 104 F '42

Cost of increased production measured in terms of steel. L. C. Converse. Oil & Gas J 40:46+ F 19 '42

Distribution of equipment to foreign areas. W. A. Sawdon. il Pet Eng 14:98, 100 O '42

Diversion of supplies to most vital service is WPB aim. H. D. Ralph. il Oil & Gas J 41:22-3 Ag 20 '42

Drilling rig designed for ready portability. W. A. Sawdon. il diag Pet Eng 13:38, 40 Ja '42

Drilling-rig inventories save truck mileage. Oil & Gas J 41:53 Jl 16 '42

Drilling to be reduced forty per cent; reduction of materials and equipment. D. R. Knowlton. Oil & Gas J 40:13 Mr 5 '42

Equipment maintenance section. il diags Oil & Gas J 40:86-192 Ap 30 '42

Equipment replacement at proper time saves money. Oil & Gas J 41:67 S 10 '42

Extension of P-98 to Canada may indicate retention here. Oil & Gas J 41:74 Je 25 '42

Full text of preference rating order P-98B. Nat Pet N 34:36 S 23 '42

Industry hits control plan on equipment. Nat Pet N 34:3-4 Ag 12 '42

Injudicious use of P-98 brings implied warning from OPC. H. S. Norman. Oil & Gas J 40:16-17 F 19 '42

Many questions raised about OPC production order; with text of preference rating order M-68. H. S. Norman. Oil & Gas J 40:10-11 Ja 1 '42

Medium weight drilling equipment employed in deeper north Texas drilling. H. L. Flood. il diag Pet Eng 13:29-32 D '41

Minimum use made of critical materials in building plant; condensate-recovery and gas-cycling plant, American liberty oil co. N. Williams. flow diag il Oil & Gas J 41:23-4, 32 Jl 9 '42

New drilling rig embodies many valuable features. H. L. Flood. il diag plan Pet Eng 13:42+ Ja '42

New practices aid reclaiming of used oil-field equipment; oil-country machine shops. N. Williams. il Oil & Gas J 41:29-30 S 3 '42

Newest techniques; equipment catalog; text in English and Spanish. il Oil & Gas J 40:173-287 D 25 '41

OPC given full authority to control well spacing. H. D. Ralph. Oil & Gas J 40:60 D 25 '41

OPC warning repeated that supply rules will tighten. D. R. Knowlton. Oil & Gas J 41:20-1 Je 11 '42

OPC's materials division formally set up by Davies. Nat Pet N 34:10 Ja 7 '42

Oil-field transportation and especially developed equipment. S. H. Grinnell. Am Pet Inst Proc 22(1):59-60 '41

Operators oppose several features of materials plan. H. F. Simons. Oil & Gas J 41:24+ Ag 13 '42

Order P-98 amended and extended. Oil & Gas J 40:28, 31+ Mr 19 '42

P-98 grants oil-production equipment A-8 rating. H. D. Ralph. Oil & Gas J 40:14 Ja 8 '42

Packer tester reduces workover time and labor. il Pet Eng 13:60 My '42

P.I.W.C. turns down equipment control plan; urges voluntary system for production only. Nat Pet N 34:5-6 S 9 '42

Plans drafted standardizing containers used in industry. H. D. Ralph. Oil & Gas J 40:25 Ja 1 '42

Plastic pipe and tubing one solution of metal shortage problem. il Pet Eng 14:142, 144, 146 O '42

Plow-type equipment useful in pipe-line construction. P. Reed. il Oil & Gas J 40:191-2 Ja 29 '42

Preference rating order no. P-98; text. Pet Eng 13:104+ F '42

Preference rating order P-100 for repairs, maintenance, and operating supplies. Pet Eng 13:65-6, 70 Ja '42

Priorities: answers to questions about procurement of petroleum equipment (cont). Oil & Gas J 40:22 N 20; 34 N 27; 29 D 4; 31, 98 D 11; 20 D 18 '41; 18 Ja 15; 13 Ja 22; 19 F 5 '42

Priorities; forms upon which operators may apply for exceptions to spacing order M-68. Oil & Gas J 40:16 Ja 8 '42

Priorities orders issued for oil industry; with text. Nat Pet N 34:5, 8-9, 12 Ja 14 '42

Producers benefit most from new preference order P-98-B. Oil & Gas J 41:57 S 24 '42

Recheck of scrap-metal stock is launched by oil industry. G. C. Gibbons. Oil & Gas J 41:58-9+ Jl 30 '42

Reclaiming alloy steel parts. il Oil & Gas J 41:47-8 My 14 '42

Record system plays important role in conserving well equipment. C. C. Pryor. il Pet Eng 13:34, 36, 38 F '42

Redistribution plan to get needed materials for wildcatting. H. Ickes. Nat Pet N 34:21-2 O 28 '42

Reports of A.P.I. committees on the standardization of oil-field equipment. Am Pet Inst Proc 22(4):110-90 '41

Response good, but not good enough in oil's scrap drive. M. R. Singleton. Nat Pet N 34:32-4 Je 10 '42

Salt water disposal system utilizes non-corrosive materials. C. C. Pryor. il Pet Eng 13:42, 44, 46 Ap '42

Scale removed from pipe by simple treatment; use of sodium hexametaphosphate and alkaline quebracho tannin; line carrying salt water for disposal. H. F. Simons. diag Oil & Gas J 40:29-30 Ap 16 '42

Sectional fences made from obsolete materials. J. C. Albright. il Pet Eng 13:80 S '42

Shell Oil develops new type slim-hole rotary rig. H. F. Simons. il Oil & Gas J 40:33, 35, 39-40+ Ja 15 '42

Shop fabrication of special tools. A. F. Davis. il Pet Eng 13:113 F '42

Suppliers of materials and equipment to the petroleum industry assigned A-8 preference rating by OPM. Pet Eng 13:121-2 D '41

Supply exchange hampered by War board regulation 13. H. S. Norman. Oil & Gas J 41:32 O 22 '42

Systematic scrap collection greatly increases yield. T. P. Sanders. il Oil & Gas J 41:30 Ag 13 '42

Thermo-siphon heater for oil-field use. H. Vance and E. G. Smith. il diags Pet Eng 13:27-30 S; 14:103, 106, 108+ N '42

Trends in rotary drilling machinery and equipment. J. M. Shimer. Pet Eng 13:129-30, 132 D '41

Useful devices for operators in natural gasoline, natural gas, and allied fields. il diags Pet Eng 13:58+ Jl '42

Valves; their selection and application. F. E. Davenport. il Pet Eng 13:62+ D '41

PETROLEUM industry and trade—Equipment and supplies—*Continued*

Welding oil machinery and equipment. A. F. Davis. il Welding J 21:392-4 Je '42

See also

Drills, Oil well
Petroleum—Pumping
Petroleum engineering—Power
Petroleum equipment industries
Petroleum pipe lines
Petroleum refineries—Equipment

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 22:20-1, 23 My '42
Changed prospect for oils and rubbers. H. F. Travis. Mag of Wall St 70:638-9+ O 3 '42
Determining income from lease having an override. Oil & Gas J 41:43 Jl 9 '42
Development of oil properties on a reserve basis. Oil & Gas J 41:67 Ag 20 '42
Effect of proration on payout of producing properties. Oil & Gas J 41:51 Je 18 '42
Evaluation of property must include all factors. Oil & Gas J 41:57 Je 4 '42
Impact of war keeps profit trend of industry downward. J. D. Gill. Oil & Gas J 41:61, 221 S 24 '42; Excerpts. Nat Pet N 34:15-16 S 23 '42
Net income for 32 companies up 40.4 per cent in 1941 over preceding year. F. J. Sansone. Oil & Gas J 41:41-3 My 28 '42
Oil companies' outlook as East coast rationing nears. Barron's 22:12 My 11 '42
Opinions vary on how war costs should be paid; war service awards or adjustments in prices. C. O. Willson. Oil & Gas J 41:63-4 Je 25 '42
Present worth factor in arriving at property value. Oil & Gas J 41:65 Ag 20 '42
SEC issues two industry reports; oil refining and nonferrous metals industries. Comm & Fin Chr 155:118 Ja 8 '42
Some effects of nationwide gasoline rationing. Barron's 22:12 Je 8 '42
Standard oil of New Jersey in war and peace. H. E. Rose. Barron's 22:3+ Jl 27 '42
Why oil profits are down. Barron's 22:12 O 19 '42
Worth of property shown when interest is deducted. Oil & Gas J 41:37 Jl 2 '42

See also

Petroleum industry and trade—Costs
Petroleum industry and trade—Securities

Fires and fire protection

Group session on fire protection. C. E. Townsend and others. Am Pet Inst Proc 22(1):45-56 '41

History

Railroad competition and the oil trade, 1855-1873. R. H. Maybee. 451p bibliog(p409-29) $3 Extension press, Central state teachers college, Mt Pleasant, Mich. '40

International aspects

How war affects oil companies. Barron's 21:12 D 22 '41
Major industry supports general defense; America's fighting advantage in quality of gasoline a product of private research. W. H. Hillyer. il Barron's 22:8 My 4 '42

See also

World war, 1939—Petroleum supply

Public relations

Progeny for war; Shell oil co. provides tour of refineries for a group of science and business writers. W. C. Platt. il Nat Pet N 34:15-17 My 13 '42

Records

Drill-pipe record helps in determining costs. Oil & Gas J 40:47 Ap 2 '42
Record system plays important role in conserving well equipment. C. C. Pryor. il Pet Eng 13:34, 36, 38 F '42

Regulation

California plan for allocating production approved by OPC. L. P. Stockman. Oil & Gas J 40:18 Mr 5 '42
California plan to be enforced. Nat Pet N 34:14 Mr 11 '42
Cartelization of eastern industry is in prospect. H. D. Ralph. Oil & Gas J 41:68 S 24 '42
Committee will run California oil industry; text of California oil control plan. H. I. Ickes. Nat Pet N 33:9, 12-13 D 17 '41
Crude runs to stills set for district 3 refineries. Nat Pet N 34:17 Je 3 '42
Directory of government oil agencies. Oil & Gas J 41:73+ Jl 30 '42
East Coast pooling program to be directed by Kittinger; with text of order. Nat Pet N 34:3, 30-3 O 7 '42
Federal policing not wanted, California operators told; annual meeting of the San Joaquin Valley oil producers assn. L. P. Stockman. Oil & Gas J 40:36 D 11 '41
Federal relationship with oil industry solidified by war; regulations for conserving critical metals. H. D. Ralph. Oil & Gas J 41:79+ Jl 30 '42
Industry's leaders appointed to serve on petroleum council. Oil & Gas J 40:17+ D 4 '41; Nat Pet N 33:7+ D 3 '41
Interstate oil compact commission meeting, Little Rock, Ark. Oil & Gas J 40:15+ Ap 2 '42
Many factors to consider in fixing state allocations. W. V. Howard. Oil & Gas J 40:15-16 F 5 '42
Midwest rationing wouldn't aid East. F. Phillips. Nat Pet N 34:3-4 S 2 '42
National defense and the oil industry. H. L. Ickes. Am Pet Inst Proc 22(1):18-23 '41
OPC approves California conservation program. L. P. Stockman. Oil & Gas J 40:21 D 18 '41
OPC Production division has duty of insuring oil supply. H. D. Ralph. Oil & Gas J 41:24-5+ S 10 '42
OPC's Washington and district offices; directory. Oil & Gas J 40:63 Ja 29 '42
Oil states pledge compliance with Ickes' production rates. Nat Pet N 33:2 D 31 '41
PCO to last only through emergency. H. Ickes. Nat Pet N 33:30-2 N 12 '41
Petroleum industry nationalized, 1941. Oil Paint & Drug Rep 141:42+ Ja 12 '42
Pooled petroleum. Business Week p72, 76 O 17 '42
Regulators ask central control; meeting of National conference of petroleum regulatory authorities. Oil & Gas J 41:28 O 8 '42
Responsibility of the oil industry in the war; abstract. D. R. Knowlton. Nat Pet N 34:19-20 Mr 4 '42
Southeastern jobbers petition FDR to name single oil director. Nat Pet N 34:30 S 30 '42
Unitization nearer for oil as thoughts are crystallized. Nat Pet N 34:7-8 O 14 '42
Well violates 40-acre rule; WPB orders its flow halted. Nat Pet N 34:18 My 13 '42

See also

Interstate oil compact commission
Petroleum laws and regulations

Safety measures

Injuries prevented by rack for trailers and bolsters. il Oil & Gas J 41:46 O 1 '42
Is safety being over-emphasized? J. A. Campbell. Pet Eng 13:40, 42 D '41
Personal protective equipment aids in preventing accidents. H. W. Richards. Oil & Gas J 40:85-6+ F 26 '42
Prevention of accident needs close study of causes. D. A. Klemme. Oil & Gas J 40:202-4 Ja 29 '42
War gives impetus to accident-prevention work. J. B. Harris. Oil & Gas J 41:54-5 Ag 27 '42

Securities

Lower oil company profits seen for final half of 1942; position of leading stocks. il Mag of Wall St 70:386-9 Jl 25 '42
Oil company shares. Economist 142:433-4 Mr 28 '42
Oil industry in war. S. Devlin. il Mag of Wall St 69:310-13+ D 27 '41

PETROLEUM industry and trade—Securities —*Continued*

Oil's crucial war role; with position of leading stocks. H. L. Blackburn. il Mag of Wall St 69:649-53+ Mr 21 '42
Stock values show modest recovery. Oil & Gas J 41:144 Jl 30 '42
Superior oil co. (Cal.) 3½s, 1956; recent discovery program has added to company's reserves. Comm & Fin Chr 155:16 Ja 1 '42
Trends in market value of oil stocks, 1941. Oil & Gas J 40:103 Ja 29 '42

Statistics

East Coast demand and supply of petroleum products, quarterly, October 1940-September 1941; chart. Survey of Cur Business 22:4 Je '42
Oil outlook for 1942 profoundly affected by war restrictions. H. J. Struth. map Pet Eng (Annual no) 13:23-32 [Jl] '42
Oil trade balance nears export decline, import gain. J. P. O'Donnell. il Oil & Gas J 40:95 Ja 29 '42
Oil-transportation routes changed to meet exigencies. H. S. Norman. il Oil & Gas J 40:16-17 N 13 '41
Production for first half of year approaches 1940 peak. W. V. Howard. Oil & Gas J 41:74-5 Jl 30 '42
Production record reached in 1941 with trend still up. W. V. Howard. Oil & Gas J 40:74-5 Ja 29 '42
Proven reserves, 20,299,542,000 barrels. W. V. Howard. maps Oil & Gas J 40:60-1, 78-80 Ja 29 '42
War developments will determine 1942 demands. C. O. Willson. Oil & Gas J 40:72-3 Ja 29 '42
Western hemisphere gains in production offset other losses. Oil & Gas J 40:87 Ja 29 '42
World-wide oil consumption reaches record-breaking high in 1941. V. F. Garfias, R. V. Whetsel and J. W. Ristori. Oil & Gas J 40:13 F 12 '42

See also
Gasoline industry—Statistics

Taxation

Depletion allowance maintains birth rate of oil wells, Gore tells Senate committee. Nat Pet N 34:18 Ag 12 '42
Hunter and Brown led battle against inimical tax change. Oil & Gas J 41:26 O 15 '42
New tax provisions discussed at Mid-continent meeting. Oil & Gas J 40:39 D 11 '41

See also
Gasoline—Taxation

Valuation of property

Oil property valuation. P. Paine. 204p $2.75 Wiley '42

Alberta

Development of Alberta oil in 1941. J. L. Irwin. il map Can Min J 63:99-103 F '42
Official 1941 reports show increased production. V. Lauriston. Oil & Gas J 40:100 F 26 '42
Oil industry in Alberta. A. W. Farmilo. bibliog il maps Can Min J 63:17-26 Ja '42
Work outside Turner Valley aids Canadian oil outlook. J. L. Irwin. il maps Oil & Gas J 41:25-6 S 3 '42

See also
Petroleum—Alberta

Argentina

Argentina expands refining facilities. il Oil & Gas J 40:96 D 25 '41
Argentina's crude output reaches 21,735,000 bbl. il map Oil & Gas J 40:99, 101-2+ D 25 '41
Argentina's fuel situation. For Comm W 8:18-19 S 26 '42
Determination of slot sizes for liners in Argentine oil fields. D. F. Ramos Ruiz. il Pet Eng 13:23-8 N '41
Development and exploration active in Argentina. W. A. Sawdon. il Pet Eng 14:119-20 O '42

Arkansas

Annual review. R. M. Sanford. Oil & Gas J 40:135-6+ Ja 29 '42
Pressure control at Schuler reduces gas-oil ratios. R. M. Sanford. Oil & Gas J 40:61+ Ja 1 '42
Schuler field benefits from repressuring program. J. E. Howell. Oil & Gas J 40:58+ Ap 2 '42
Semiannual review. Oil & Gas J 41:140-1 Jl 30 '42

Bahrein island

Oil from the wells of Bahrein. L. Swearingen. il map For Comm W 8:10+ S 12 '42

Brazil

Geophysical exploration in Brazil. W. A. Sawdon. il Pet Eng 14:122, 124 O '42
Petroleum products; regulations established for bulk importations. For Comm W 9:16-17 O 3 '42

California

Annual review. L. P. Stockman. Oil & Gas J 40:118, 120+ Ja 29 '42
California defense program is aimed at preventing sabotage. L. P. Stockman. Oil & Gas J 40:40 Mr 12 '42
California petroleum industry's salvage program. S. Fox. il Pet Eng 13:135-6, 138 S '42
California plan for allocating production approved by OPC. L. P. Stockman. Oil & Gas J 40:18 Mr 5 '42
California quotas adjusted to yield maximum fuel oil. S. Fox. il Oil & Gas J 41:20-1 S 10 '42
Californians aim at oil waste showdown; are foiled in attempt to subpoena Ickes. Nat Pet N 33:16 N 12 '41
Committee will run California oil industry; text of California oil control plan. H. I. Ickes. Nat Pet N 33:9, 12-13 D 17 '41
Indoor oil field is planned for Los Angeles tract; proposed to erect concrete building covering approximately 8 acres. L. F. Stockman. Oil & Gas J 40:96 F 26 '42
Indoor oil field one step nearer start. L. P. Stockman. Oil & Gas J 41:78 S 10 '42
Indoor oil field; proposal for tapping pool in Los Angeles. il Business Week p24+ Mr 21 '42
OPC approves California conservation program. L. P. Stockman. Oil & Gas J 40:21 D 18 '41
Pacific Coast oil industry's salvage drive expands. L. P. Stockman. Oil & Gas J 41:18 S 3 '42
Peak demand expected by California operators. L. P. Stockman. Oil & Gas J 41:71 S 24 '42
Restrictions are modified on equipment in California. Oil & Gas J 41:20+ O 15 '42
Review of multiple-zone production in California. R. F. Cory. il diags Am Pet Inst Proc 22(4):14-19 '41; Same. Oil & Gas J 40:88, 90+ N 6 '41; Discussion. Am Pet Inst Proc 22(4):19-21 '41
Reworking California oil wells. W. A. Sawdon. diags Pet Eng 13:21-2 Jl '42
Semiannual review. L. P. Stockman. Oil & Gas J 41:94, 96+ Jl 30 '42
Sharp increase advocated in California heavy-oil fields. L. P. Stockman. Oil & Gas J 41:18 Jl 23 '42

See also
Petroleum—California

Canada

Canadian oil controller's office explains Canada's problems. E. F. Lambert. Nat Pet N 33:36-7 N 19 '41
Canadian petroleum industry meets the war challenge. il Can Chem & Process Ind 25:575-8 N '41
Consumption of gasoline rises sharply in Canada; statistics of products consumption, 1941, Jan.-May 1942. W. V. Howard. Oil & Gas J 41:28 Je 18 '42
Extensive activity in western Canada seen for coming year. T. P. Sanders. Oil & Gas J 40:60-1+ F 19 '42

PETROLEUM industry and trade—Canada—*Continued*

Oil development of Canadian Northwest to be accelerated. W. V. Howard. il maps Oil & Gas J 41:14-15+ Je 11 '42

Petroleum development in Canada. F. K. Beach. il Pet Eng 14:128+ O; 54+ N '42

Semiannual review. V. Lauriston. Oil & Gas J 41:126-7+ Jl 30 '42

Colombia

Colombian wildcatting activity centered in Magdalena valley; abstract. O. C. Wheeler. Oil & Gas J 40:29 F 19 '42

Colombia's oil fields. For Comm W 9:29 O 3 '42

Cretaceous tested west of Petrolea production. il Oil & Gas J 40:132-3 D 25 '41

News by commodities. For Comm W 6:28 Mr 28 '42

Shell's discovery on Yondo block is Colombian feature. E. Ospina-Racines. il Oil & Gas J 40:94-5 D 25 '41

See also
Petroleum pipe lines
—Colombia

Colorado

Cost study of Fort Collins-Wellington field. F. N. Bosco. maps Oil & Gas J 40:50-2 Ja 15 '42; Discussion (Cost of producing oil). E. Bloesch. 40:37 F 12 '42

Costa Rica

Government offering public land for oil exploration. Oil & Gas J 40:75 Mr 26 '42

Eastern states

Committee formed to direct oil-economy drive in East. J. P. O'Donnell. Oil & Gas J 40:19 F 19 '42

Effects of gasoline rationing appraised. Barron's 22:12 Ap 27 '42

Plan for pooling supplies in East developed by OPC. A. M. Petty. Nat Pet N 34:5 S 23 '42

Semiannual review. Oil & Gas J 41:136-7 Jl 30 '42

Germany

See also
Petroleum supply—
Germany

Great Britain

Coincidence? Economist 143:135 Ag 1 '42

Domestic oil refining; reopening of British refineries. Economist 141:590 N 15 '41

Oil and the chemical industry. F. Kind. Chem Age (Lond) 46:122 Mr 7 '42

Oil in 1941. Economist 142:sup22 Mr 14 '42

Petroleum production in the British Empire, 1932 to 1941 inclusive; tabulation. Can Min J 63:103 F '42

Gulf Coast region

Barges take strong position in Gulf Coast-oil transportation. N. Williams. il map Oil & Gas J 40:14-16 D 4 '41

Coastal refineries classified in framing operating policy. Oil & Gas J 40:15 Ap 16 '42

Gulf Coast region is ready for expanded exploration to meet the increased needs of Nation's war effort. F. L. Singleton and N. Williams. il Oil & Gas J 41:52-4 Je 25 '42

Gulf Coast section. il Oil & Gas J 41:82-9+ Je 25 '42

Unitization of Gulf Coast rigs saves time in moving. N. Williams. il Oil & Gas J 41:31-2 S 17 '42

Illinois

Amendment to spacing order affects few Illinois fields. H. E. David. Oil & Gas J 41:66+ Je 11 '42

Annual review. Oil & Gas J 40:140+ Ja 29 '42

Drilling in Illinois may rise 75 per cent next 4 months. H. David. map Oil & Gas J 41:31-2 S 10 '42

Illinois Basin discovery rate shows drop this year. H. E. David. map Oil & Gas J 41:100-1+ My 14 '42

Illinois production depends on high discovery rate. W. V. Howard. Oil & Gas J 40:42-3 F 26 '42

New-type multiple-completion technique developed in Illinois. H. F. Simons. il diag Oil & Gas J 41:31-2 Ag 6 '42

New type secondary recovery in Dupo field; electrical centrifugal pump installed. V. Kotschoubey. il map Oil & Gas J 40:39-40 Mr 5 '42

Oil production in the eastern interior basin; abstract. W. B. Heroy. Oil & Gas J 41:25+ O 8 '42

Semiannual review. Oil & Gas J 41:119-20+ Jl 30 '42

Trenton play revives interest in western part of basin. H. E. David. map Oil & Gas J 41:77 S 10 '42

India

Digboi field, Assam, early prepared for air raids. C. A. Petrie. Pet Eng 14:73-4 O '42

Indiana

Semiannual review. Oil & Gas J 41:130+ Jl 30 '42

Japan

See also
Petroleum supply—
Japan

Kansas

Annual review. R. Ingram. Oil & Gas J 40:164+ Ja 29 '42

Application of time logs to porosity studies in central Kansas wells. J. P. McKee. Oil & Gas J 41:56+ S 3 '42

Kansas refiners enter August with low inventories. W. T. Ziegenhain. il Oil & Gas J 41:20+ Ag 6 '42

Secondary recovery in east Kansas grows in importance. P. Reed. il Oil & Gas J 41:22-3+ O 22 '42

Semiannual review. C. Hoot. Oil & Gas J 41:91-2+ Jl 30 '42

Louisiana

Annual review. R. M. Sanford. Oil & Gas J 40:135-6+ Ja 29 '42

Annual review. F. L. Singleton. Oil & Gas J 40:146+ Ja 29 '42

Central separator provides flexible control at Paradis. N. Williams. il Oil & Gas J 40:29-30 F 12 '42

Difficulties of completion offer challenge in central Louisiana Wilcox zone field. W. R. S. Jones and R. M. Sanford. il diag Oil & Gas J 40:52-3 Ja 1 '42

Drilling in swamp area of Louisiana Gulf coast simplified by use of barges. C. C. Pryor. il diags Pet Eng (Annual no) 13:122, 124, 126 [Jl] '42

Marsh buggy important in Louisiana development. Oil & Gas J 40:51 Ja 1 '42

Semiannual review. F. L. Singleton. Oil & Gas J 41:115-16, 140-1 Jl 30 '42

Service on active fields; Olla and South Olla fields. map Oil & Gas J 40:66-7 Ja 15 '42

Mexico

Mexico's oil production suffers further decline. Oil & Gas J 40:137+ D 25 '41

Mexico's production down 5 per cent in 1941; abstract. T. R. Armstrong. Oil & Gas J 40:29 F 19 '42

See also
Mexico—Expropriation policy

Michigan

Annual review. O. Pressprich. Oil & Gas J 40:182 Ja 29 '42

Semiannual review. O. C. Pressprich. Oil & Gas J 41:129 Jl 30 '42

Mid-continent field

Outlook for Mid-continent oil companies in supplying wartime products. G. B. Murphy. Nat Pet N 34:R81-2 Mr 18 '42

Mississippi

Annual review. R. M. Sanford. Oil & Gas J 40:135-6+ Ja 29 '42

PETROLEUM industry and trade—Mississippi —*Continued*

Semiannual review. Oil & Gas J 41:140-1 Jl 30 '42

New Mexico

Loco Hills pressure-maintenance project placed in operation. D. H. Stormont. il map Oil & Gas J 40:48-9 D 11 '41

West Texas and southeastern New Mexico development in 1941; West Texas geological society committee. bibliog map Am Assn Pet Geologists Bul 26:1007-39 Je '42

Ohio

Annual review. Oil & Gas J 40:187 Ja 29 '42

Semiannual review. Oil & Gas J 41:130 Jl 30 '42

Oklahoma

Annual review. R. Ingram. Oil & Gas J 40:183-6 Ja 29 '42

Red River field offers example of value of repressuring. D. H. Stormont. map Oil & Gas J 40:32-3+ D 18 '41

Semiannual review. C. Hoot. Oil & Gas J 41:122-3 Jl 30 '42

Subsurface disposal of oil-field brines in Oklahoma. S. S. Taylor and E. O. Owens. pls diags map U S Bur Mines Rep of Invest 3603:1-54 '42

Pennsylvania

Beginnings of the petroleum industry; sources and bibliography. P. H. Giddens. 195p bibliog(p87-172) Dept. of public instruction, Pennsylvania historical commission, Harrisburg '41

Effects of well-cleanout work in Venango district. R. B. Bossler and P. A. Dickey. il Oil & Gas J 41:33-4, 36 O 29 '42

Golden flood, an informal history of America's first oil field. H. Asbury. 324p bibliog(p323-4) $3.50 Knopf '42

Horizontal wells from shaft to be used in Pennsylvania; method invented by L. Ranney. A. C. MacIntyre. Oil & Gas J 40:42 Ap 9 '42

Pennsylvania-crude district needs further development. P. A. Dickey. Oil & Gas J 41:68+ Je 18 '42

Pennsylvania grade region holds unique war position. J. P. O'Donnell. il Oil & Gas J 40:58-9 Ap 30 '42

Pennsylvanians to dig for oil; Venango development corp. to secure crude by horizontal drilling. Nat Pet N 34:5+ F 11 '42

Persia

Anglo-Iranian oil company, 32d ordinary general meeting, London. Economist 141:702 D 6 '41

Anglo-Iranian report for 1940. Economist 141:660 N 29 '41

Peru

Blue Goose development may open Amazon industrial era. T. P. Sanders. il Oil & Gas J 40:137+ D 25 '41

Rocky Mountain region

Annual review. T. R. Ingram. Oil & Gas J 40:178-81 Ja 29 '42

Semiannual review. T. R. Ingram. Oil & Gas J 41:134 Jl 30 '42

Rumania

Oil production greatly decreased in Rumania. For Comm W 9:31 O 31 '42

Output in Rumania. For Comm W 8:31 Ag 1 '42

Roumanian oil. Economist 141:783 D 27 '41

Rumania's oil; Nazi efforts partly frustrated. For Comm W 7:25 My 16 '42

Russia

Mountains give Soviet oil fields stout protection; with discussion of Germany's supply. L. D. Wosk. il maps Oil & Gas J 40:77-8+ D 25 '41

Southern states

South's war effort and private industry. S. A. Lauver. Manuf Rec 111:28-9+ F '42

Texas

Activity in Texas Panhandle maintains upward trend. H. F. Simons. il Oil & Gas J 40:14-15 D 18 '41

Annual review. Oil & Gas J 40:111-12+, 125+, 153-4+, 161, 173-4+ Ja 29 '42

Attractive wildcat prospects keeping west Texas active. T. P. Sanders. il Oil & Gas J 40:18-19 Ap 9 '42

Central hydraulic pumping used in Hull-Silk field. T. P. Sanders. il Oil & Gas J 40:41-2 My 7 '42

Developments in south Texas during 1941. L. B. Herring. map Am Assn Pet Geologists Bul 26:1000-6 Je '42

Drilling and production of East Placedo field. C. C. Pryor. il Pet Eng 13:108, 110 S '42

Drilling methods at Chapel Hill. T. P. Sanders. il Oil & Gas J 40:37-8 Mr 12 '42

East Texas operators to consider disposal plan; with cost data. D. H. Stormont. il Oil & Gas J 40:34 D 11 '41

East Texas water-disposal project is continued. D. H. Stormont. Oil & Gas J 40:24 D 18 '41

Economy features Texas Panhandle operations. H. F. Simons. il Oil & Gas J 40:31-2 Ja 8 '42

Electrolytic chlorinators used on east Texas disposal projects. T. P. Sanders. il Oil & Gas J 41:31-2 Jl 23 '42

Exploration in south Texas needs strong stimulation. W. V. Howard. Oil & Gas J 41:20 N 5 '42

Financing of east Texas salt water disposal plan complete. R. Ingram. Oil & Gas J 41:31 Ag 13 '42

Gas jetting used to lift oil at Aransas Pass field. N. Williams. il Oil & Gas J 40:33-4 F 5 '42

Many deep pays are found in Montague County campaign. R. Ingram. map Oil & Gas J 41:68-70 S 17 '42

Mud programs important in drilling Abell field wells. D. H. Stormont. il Oil & Gas J 40:35-6 Ap 9 '42

Permian basin productive area shows continuous expansion. R. Ingram. map Oil & Gas J 41:67-8 Ag 6 '42

Plan to curtail east Texas water output strikes snags. W. V. Howard. Oil & Gas J 41:10-11 N 5 '42

Pressure maintenance at K.M.A. W. H. Rouzer, jr. Oil & Gas J 40:33-4+ Ap 2 '42

Reservoir pressures at Rincon stabilized by gas return. N. Williams. il diag Oil & Gas J 41:39-40 S 10 '42

Results at South Caesar will influence Carrizo-Wilcox play. F. L. Singleton. map Oil & Gas J 41:70-1 My 21 '42

Semiannual review. R. Ingram; F. L. Singleton. Oil & Gas J 41:99-112, 124, 131-2 Jl 30 '42

Service on active fields; K.M.A. Ellenburger field. maps Oil & Gas J 40:66-7 Mr 12 '42

Service on active fields; Lake Creek field, Montgomery county. map Oil & Gas J 40:64-5 Ap 9 '42

Strong acid gives encouraging results in west Texas wells. H. F. Simons. Oil & Gas J 41:37-8 Ag 13 '42

Texas Panhandle feeling effects of war-brought regulation. H. F. Simons. il Oil & Gas J 40:277 Mr 26 '42

Three Starr County discoveries highlight Laredo district. F. L. Singleton. map Oil & Gas J 41:57+ S 3 '42

Unused ten-year-old power attests to east Texas record. il Oil & Gas J 41:64 S 10 '42

Weak acid gives good results in north central Texas wells. H. F. Simons. Oil & Gas J 41:37-8 Ag 27 '42

West Texas and southeastern New Mexico development in 1941; West Texas geological society committee. bibliog map Am Assn Pet Geologists Bul 26:1007-39 Je '42

Yates, birthplace of proration, has fifteenth anniversary. R. Ingram. Oil & Gas J 40:19 N 20 '41

Trinidad

Cheap mud work employed in drilling Trinidad wells; citrus juices substituted for quebracho for viscosity control. C. N. Smith. Oil & Gas J 41:52, 55-6 My 28 '42

PETROLEUM industry and trade—Trinidad—*Continued*

Gamma-ray well-logging in Trinidad. G. M. Conklin. Inst Pet J 28:141-5, 172-5 Jl-Ag '42

Trinidad petroleum development company; income for year to July 31st. Economist 141: 513 O 25 '41

Trinidad petroleum development company ordinary general meeting, London. Economist 141:546-7 N 1 '41

United States

Bungling at Washington threatens scandal and oil shortage. F. Phillips. Nat Pet N 34: 26, 28 O 7 '42

Candid appraisals of industry war position; abstract. W. W. Gary. Oil & Gas J 40:33-4 Ap 23 '42

Changing pattern of industry. il Adv & Sell 35:34, 36 S '42

Congress told of need for higher oil prices; Cole oil investigating subcommittee hearings. Nat Pet N 34:7+ Mr 4 '42

Demands in 1942 to establish new record for the industry. J. P. O'Donnell. il Oil & Gas J 40:28-30+ N 27 '41

Drilling in the United States falls below recent levels. W. V. Howard. Oil & Gas J 41:76-7+ Jl 30 '42

Effects of nationwide rationing on oil companies. Barron's 22:12 S 14 '42

Free enterprise for oil. R. K. Davies. Nat Pet N 34:13-15 S 23 '42

Gas industry assured of vital role in war program. H. Ickes. Oil & Gas J 40:23 My 7 '42

How the nationwide oil industry can insure success of the U.S. truck conservation corps. W. C. Platt. Nat Pet N 34:4-5 Je 24 '42

How war affects oil companies. Barron's 21: 12 D 22 '41

Impact of war on the oil industry. J. M. Lovejoy. il Min & Met 23:542-5 N '42

Industry moving at high speed as 1942 gets under way. W. R. Boyd, jr. Oil & Gas J 40:22 Ja 8 '42

Industry war council prepares to expand activities. H. S. Norman. Oil & Gas J 40: 14+ F 12 '42

Journal survey of opinion. Oil & Gas J 40:59+ Mr 26 '42

Lower oil company profits seen for final half of 1942. il Mag of Wall St 70:386-9 Jl 25 '42

Many problems face industry in its all-out war efforts. C. L. Henderson. Oil & Gas J 40:70-1 Mr 26 '42

National defense and the oil industry. H. L. Ickes. Am Pet Inst Proc 22(1):18-23 '41

New outlook for oils and rubbers. A. B. Wells. il Mag of Wall St 70:175-7+ My 30 '42

OPC lists seven oil industry projects in war program. Oil & Gas J 40:43 F 26 '42

OPC proud of way industry has risen to emergency. H. L. Ickes. Oil & Gas J 40: 62-3 Ja 29 '42

Oil industry and government must work together. W. P. Cole, jr. Am Pet Inst Proc 22(1):13-17 '41; Same. Nat Pet N 33:27-30 N 12 '41

Oil industry is setting pace in drive for additional scrap. H. S. Norman. il Oil & Gas J 41:28-9 Ag 27 '42

Oil industry lauded. H. L. Ickes. Oil & Gas J 41:24-5+ O 8 '42

Oil industry moving rapidly along several fronts. C. O. Willson. il Oil & Gas J 40: 23-5 Ap 23 '42

Oil industry's part in rubber plans may benefit by probe. H. D. Ralph. il Oil & Gas J 41:24-5 Ag 27 '42

Oil leaders outline industry's war program. Nat Pet N 34:8-9 F 25 '42

Oil men voice thinking on current topics. Oil & Gas J 40:37-8 F 26 '42

Oil outlook for 1942 profoundly affected by war restrictions. H. J. Struth. map Pet Eng (Annual no) 13:23-32 [Jl] '42

Oil refining's wartime accomplishments. W. Gary. Nat Pet N 34:19-20 Ap 22 '42

Oil seeks clearer understanding of wartime anti-trust threats; full text of opinion given by Charles F. Francis, attorney to the Natural gas and natural gasoline committee, District no. 3, Houston, Tex. Nat Pet N 34: 32-3 My 6 '42

Perspectives of petroleum. il Oil & Gas J 40: 68-71 Ja 29 '42

Petroleum industry, an economic survey. R. B. Shuman. 297p bibliog(p283-90) $3 Univ. of Oklahoma press, Norman '40

Petroleum industry hearings before the Temporary national economic committee. 590p $3 Am. petroleum inst. New York '42

Petroleum industry in 1941. W. R. Boyd, jr. Pet Eng 13:121-2 Ja '42; Excerpts. Chem Ind 50:86-7 Ja '42

Petroleum industry, 1941. E. A. Stephenson and others. il Min & Met 23:89-97 F '42

Petroleum marketing and the war effort; abstract. J. W. Frey. Nat Pet N 34:15-16 Mr 4 '42

Petroleum navigation. R. K. Davies. Am Pet Inst Proc 22(1):24-9 '41

Petroleum products shortage threat. Barron's 22:12 F 2 '42

Petroleum's past, present and future. R. P. Russell. il Chem & Met Eng 49:84-5 Ja '42

Presidential address. W. R. Boyd, jr. Am Pet Inst Proc 22(1):8-12 '41

Progress report on standards of allocation of oil production within pools and among pools. 98p bibliog(p75-92) $1.25 Central committee on drilling and production practice, Am. petroleum inst, Dallas '42

Record demand in 1941 met by increase in completions. W. V. Howard. Oil & Gas J 40:76-7 Ja 29 '42

Review and criticism on behalf of Standard oil co. (New Jersey) and Sun oil co. of Monograph no. 39 with rejoinder by monograph author [Roy C. Cook]. 96p U.S. Temporary nat. economic committee, Washington; pa 15c Supt. of doc. '41

Review of secondary recovery in the United States. P. D. Torrey. Oil & Gas J 41:19-20, 72 Jl 9; 39-40, 59-60 bibliog(p60) Jl 16 '42

Review, outlook. Oil & Gas J 41:52-3 Jl 30 '42

Socony-Vacuum; fights the war from Kokomo (Ind.) to Kirkuk (Iraq). il Fortune 26:110-15+ N '42

Steps in transition to wartime economy. H. D. Ralph. Oil & Gas J 40:188 Ja 29 '42

Views regarding the 1942 outlook and how the petroleum industry can best serve the Nation. Oil & Gas J 40:64-7 Ja 29; 22 F 5; 18 F 12; 22 F 19; 46 F 26; 21 Mr 5 '42

War and petroleum prospects for 1942. R. H. Colley. Comm & Fin Chr 155:451 Ja 29 '42

War petroleum corp. gains Coordinator's favor as way to maintain oil supplies. H. D. Ralph. Oil & Gas J 41:13-14 Jl 2 '42

When oil rationing hits the coasts. Barron's 22:12 F 16 '42

See also
Petroleum—Prices
Petroleum industry and trade—Regulation
also American petroleum institute

Uruguay

Capacity of Uruguayan refinery increased 25 per cent. E. S. Pelufo. il Oil & Gas J 40: 89 D 25 '41

Venezuela

Another Venezuelan production record is established. Oil & Gas J 40:27 F 5 '42

Eastern Venezuelan fields contribute to record yield. J. P. O'Donnell. Oil & Gas J 40:34 Mr 12 '42

Lake exploration extends seven miles from shore, Lake Maracaibo. Oil & Gas J 40:152 D 25 '41

New still adds efficiency to Lago Venezuela plant. il Oil & Gas J 40:151 D 25 '41

Socony-Vacuum drills deepest South American well; Anzoategui, eastern Venezuela. J. P. O'Donnell. il Oil & Gas J 40:92-3 D 25 '41

Venezuela marks time. W. A. Sawdon. il map Pet Eng 14:102, 104, 106 O '42

PETROLEUM industry and trade—Venezuela— *Continued*

Venezuelan crude-oil production at highest level in history. Oil & Gas J 40:27 D 18 '41

Venezuelan oil companies aid in rehabilitation of workers. Oil & Gas J 41:32 S 10 '42

Venezuela's oil industry exceeding prewar output. L. H. Figueredo. il Oil & Gas J 40:90-1 D 25 '41

Venezuela's oil trade. Economist 142:572 Ap 25 '42

Wyoming

Wyoming awaits more favorable conditions for full development. T. R. Ingram. Oil & Gas J 41:70-1 Jl 16 '42

PETROLEUM industry war council

Industry's leaders appointed to serve. Oil & Gas J 40:17+ D 4 '41

More data asked on PIWC study of war's impact. Oil & Gas J 41:28 S 10 '42

Oil's added wartime costs studied. Nat Pet N 34:5 Jl 22 '42

Petroleum industry war council at work. H. D. Ralph. Oil & Gas J 41:16-19+ Je 11 '42

P.I.W.C. turns down equipment control plan; urges voluntary system for production only. Nat Pet N 34:5-6 S 9 '42

PETROLEUM laboratories

New laboratory is contribution to research in petroleum field; Standard oil co. of Ohio. il Nat Pet N 34:R40-2 F 4 '42

New petroleum research laboratory formally opened; Standard oil co. of Ohio. il Chem & Eng N 20:130+ Ja 25 '42

PETROLEUM laws and regulations

See also
Petroleum—Proration

Arkansas

Arkansas' oil and gas industry managed on engineering basis. A. M. Crowell. il Pet Eng (Annual no) 13:55-6+ [Jl] '42

Rumania

Oil reform in Roumania. Economist 143:333-4 S 12 '42

Texas

Texas action on allowable watched for hint of trend. H. S. Norman. il Oil & Gas J 41:30-1 My 28 '42

PETROLEUM libraries

Tulsa public library's petroleum collection. B. A. Osborne. Special Lib 33:126-7 Ap '42

PETROLEUM patents. See Petroleum—Production methods—Patents; Petroleum—Well drilling—Patents; Petroleum products—Patents; Petroleum refining—Patents

PETROLEUM pipe lines

Arc welding simplifies and speeds construction of pipe lines. C. M. Taylor. il Oil & Gas J 41:172-3 S 24 '42

Bayou pipe line system work is moving into full speed. map Oil & Gas J 41:26 Ag 20 '42

Beaumont-Baton Rouge feeder line favored, newsmen told on Plantation pipeline tour. il Nat Pet N 34:28 Je 3 '42

Big inch grows; but extension of pipeline to East coast won't plug leaks in rationing. Business Week p 19-20 N 7 '42

Building progress reported on 7 OPC pipeline projects. il Nat Pet N 34:21-2 S 23 '42

California gas line to be converted to crude service. Oil & Gas J 40:21-2 Ap 23 '42

Construction practices on 24-in. war emergency pipe line. P. Reed. il Oil & Gas J 41:41-3 O 8 '42

Construction starts on 24-in. Texas-Illinois crude-oil line. P. Reed. Oil & Gas J 41:10-11 Ag 6 '42

Cross-Florida pipeline, barge canal reported favorably by Senate group. Nat Pet N 34:22+ Jl 8 '42

Crude oil and gasoline pipe lines in the United States, May 1, 1941. G. R. Hopkins and F. S. Lott. U S Bur Mines Information Circ 7196:1-6 '41

Current developments in pipe-line welding. A. N. Kugler. il diags Oil & Gas J 41:182+ S 24 '42

Davies and WEP officials inspect Longview pipeline. il Nat Pet N 34:23-4 S 23 '42

Development of pipe-line transportation in the development of the Southwest; abstract. T. E. Swigart. Oil & Gas J 40:45 Ja 22 '42

Engineering economics of long petroleum pipelines; with cost data. E. G. Hill. map Nat Pet N 34:R69-70, R72-4, R76-7 Mr 4 '42; Same cond. Oil & Gas J 40:45-7 F 12 '42

Excess in 1942 over minimum requirements may be expected. J. R. Parten. Nat Pet N 34:26-7 Jl 15 '42

Expansion of pipe lines is vital to war program. P. Reed. Oil & Gas J 40:88 Ja 29 '42

Extension of War emergency pipe line to bring major changes. P. Reed. maps Oil & Gas J 41:8-9 N 5 '42

Extensive new pipe-line work belies tight-material curb. P. Reed. map Oil & Gas J 41:80+ Jl 30 '42

Extensive pipe-line plans designed to relieve East. H. S. Norman. map Oil & Gas J 40:20-1 Ap 23 '42

Fabricating piping systems by electric-arc welding. A. M. Hill. il diags Oil & Gas J 41:41-3+ Jl 16; 38-9 Jl 23; 161-2 Jl 30; 45-6 Ag 6 '42

First delivery of crude oil by pipeline from the United States (Portland, Me.) to Montreal. For Comm W 5:31-2 D 13 '41

Florida oil pipeline approved by Ickes. Oil Paint & Drug Rep 141:5+ Je 22 '42

FDR signs bill for Florida pipeline, canal. Comm & Fin Chr 156:361 Jl 30 '42

Free 224,000 tons of steel to extend Texas-Illinois pipeline to East coast. il Eng N 129:617 N 5 '42

Ickes urges second pipeline to East coast as WPB okays Illinois-New York extension. il Nat Pet N 34:30+ N 4 '42

Industry executives active in national pipe-line program. Oil & Gas J 41:77 S 24 '42

Industry moves promptly on building big pipe line from east Texas field to Salem, Ill. H. D. Ralph. map Oil & Gas J 41:18-19 Je 18 '42

ICC board considers data on proposed Tapco pipeline; New Mexico producers back proposal to build pipeline to the West coast. Nat Pet N 34:26 F 25 '42

Keystone pipe line reversed and made into crude carrier. J. P. O'Donnell. il Oil & Gas J 41:37 My 14 '42

Lake hauls to link pipelines until new Ohio line is ready. Nat Pet N 34:24-5 Ag 26 '42

Largest re-laying program under way. il Oil & Gas J 41:27 Ag 20 '42

Lessons in pipeline construction; oil line from Portland to Montreal. il Water & Sewage 79:16-17+ D '41; Excerpts. map Can Eng R & B 79:22-3 N '41

Longview to Salem pipeline to be built with RFC funds. Nat Pet N 34:21 Je 17 '42

Modern equipment facilitates construction of pipe lines. L. H. Favrot. il Pet Eng 13:90+ Mr '42

More gas for East; new Texas-Illinois pipeline. Business Week p14 Je 20 '42

More lines for oil; with list of major crude oil and gasoline pipe lines. il map Business Week p18, 20, 22 N 22 '41

New oil pipeline proposed for South; would connect Wichita county, Texas, with Savannah, Georgia. map Manuf Rec 110:38-9+ N '41

New oil pipe line speedily built; Shell oil company pipe line between Ventura field and Wilmington refinery. W. H. O'Connell. il diag Comp Air M 47:6710-11 Ap '42

New oil-transportation era presaged by pipe-line work. P. Reed. il map Oil & Gas J 41:52-4 S 24 '42

New pipe-line laying methods. P. Reed. il Oil & Gas J 40:33-4+ Mr 19 '42

New pipelines proposed to ease shortage. Barron's 22:12 My 25 '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:252+ D 25 '41

Northern terminal war pipe line to be Norris City, Illinois. map Oil & Gas J 41:60 Je 25 '42

PETROLEUM pipe lines—*Continued*

ODT says no to Tapco line. Nat Pet N 34:28+ Ap 22 '42

OPC gets recommendation for 2 pipelines to East. Nat Pet N 34:21 Ap 15 '42

OPC gives progress report on 8 secondhand pipelines. il Nat Pet N 34:22-3 Ag 19 '42

OPC makes progress report on eight pipeline projects. Nat Pet N 34:30+ O 14 '42

OPC submits report on steel needed for three new lines. H. D. Ralph. Oil & Gas J 41:23 My 21 '42

Oil industry committees for national pipe-line projects. Oil & Gas J 41:186 S 24 '42

Oil industry life lines. Barron's 22:5 Je 15 '42

Oil rechanneled; vast new pipeline pattern. il map Business Week p17-18, 20 My 9 '42

Oxy-acetylene flame-priming of line pipe; other oxy-acetylene applications. F. C. Hutchison. il Pet Eng 13:120, 122 Mr '42

Pipeline, barge canal approved for Florida. Comm & Fin Chr 156:23, 274 Jl 2, 23 '42

Pipe-line engineers keep pace with swift-moving changes. P. Reed. Oil & Gas J 41:158-9 Jl 30 '42

Pipe-line movement of oil increased rapidly in 1941. Oil & Gas J 41:188 S 24 '42

Pipe-line operators plan for increased needs. P. Reed. il Oil & Gas J 40:24-6 D 11 '41

Pipe-line suggestions. il Oil & Gas J 40:42 Ap 16 '42

Pipe lines in war. J. R. Parten. Oil & Gas J 41:55-6 S 24 '42

Pipe lines may help solve East Coast supply problem. P. Reed. Oil & Gas J 40:62 Mr 26 '42

Pipelines of clay; experiments with gravity-flow oil ducts of ceramic tile. Business Week p64-5 Jl 18 '42

Pipe lines; system expanding to meet war demands. map Index 22 no 3:65-72 [S] '42

Pipe lines, their construction and operation. G. A. Palmer. il Pet Eng 13:124, 127-8 Mr; 67-8, 70 Ap '42

Plantation line demonstrates construction efficiency. P. Reed. il map Oil & Gas J 40:44-6 D 11 '41

Plow-type equipment useful in pipe-line construction. P. Reed. il Oil & Gas J 40:191-2 Ja 29 '42

Portland-Montreal pipe line completed in record time. F. H. Love. il map Pet Eng 13:72+ D '41

Practical suggestions to improve operation and maintenance. P. Reed, ed. il Oil & Gas J 41:80-2 S 24 '42

Reconditioned pipe to be laid as defense line. F. H. Love. il Pet Eng 14:27-8 O '42

RFC to finance cost of new Tex.-Ill. pipeline. Comm & Fin Chr 155:2398 Je 25 '42

Report of A.P.I. central committee on pipe-line transportation. Am Pet Inst Proc 22(4):48-55 '41

Report of the A.P.I. committee on the standardization of oil-country tubular goods. Am Pet Inst Proc 22(4):125-33 '41

Seven contractors share in 550-mile oil line. Steel 111:47 Jl 27 '42

Several changes in California lines expedite war operations. diag Oil & Gas J 41:129-30+ S 24 '42

Several months' delay likely in gaining pipe-line relief. J. O. O'Donnell. il Oil & Gas J 41:22-3 My 21 '42

Shift in oil's transport pattern shapes up as new plans are mapped to replace tankers. map Nat Pet N 34:25 My 27 '42

Sinking of tankers overtaxes existing pipe-line systems. P. Reed. il Oil & Gas J 40:8+ Mr 5 '42

South's new pipeline put in operation; Plantation pipe line from Baton Rouge to Greensboro. il Manuf Rec 111:28-9+ Ap '42

Status of the pipeline projects. Manuf Rec 111:26 Jl '42

Steps in revamping pipe line serving a Kansas refinery. W. Jack. il Oil & Gas J 41:110 S 24 '42

Supply-demand balance seen in East coast oil movement. Nat Pet N 34:3+ Jl 8 '42

SPAB gives final rejection to 1580-mile crude pipeline. Nat Pet N 33:23-4 N 12 '41

W. Alton Jones, president Cities service co. New York, named head of War emergency pipeline, inc. Am Gas J 157:37 S '42

War has imposed an enormous burden on Nation's oil arteries. W. A. Jones. Oil & Gas J 41:76 S 24 '42

WPB approves pipeline from Texas to Illinois. Comm & Fin Chr 155:2310 Je 18 '42

WPB clears all applications for OPC pipe-line projects. H. D. Ralph. il Oil & Gas J 41:10 Jl 9 '42

War requirements bring changes in arc-welding technique as applied to pipe-line construction. C. M. Taylor. il Pet Eng 13:114, 116, 118 Mr '42

Finance

Oil pipeline companies held to 7% profit. Oil Paint & Drug Rep 140:3+ D 29 '41

Gathering lines

Efficient and flexible gathering system; abstract. G. M. Wilson. Inst Pet J 28:191A-2A My '42

Gathering system designed for gravity flow in new Michigan field. J. C. Albright. il diag Pet Eng 13:152, 154 Mr '42

Maintenance and repair

Improved practices employed by Humble pipe-line system. P. Reed. diags Oil & Gas J 41:92+ S 24 '42

Pipe-line efficiency demands sound maintenance practices. P. Reed. il Oil & Gas J 40:88-9 Ap 30 '42

Repairs and maintenance work handled by contractors on Pacific Coast pipe-line system. T. P. Sanders. Oil & Gas J 40:44 Ja 15 '42

Standard of Louisiana has complete shop for maintenance. P. Reed. il Oil & Gas J 41:178+ S 24 '42

Maps

Oil and gas journal's map of crude oil and products pipe lines. Oil & Gas J 41:supp S 24 '42

Protection

Electrical protection and use of light-weight pipe in pipe-line construction. W. F. Rogers. Pet Eng 13:71-4 Mr '42

Pipe protection on Gulf coast extended to field flow lines. N. Williams. il Oil & Gas J 41:133-4 Je 25 '42

Progress report of efficiency test of resistance bonds as used in connection with cathodic protection. Am Pet Inst Proc 22(4):52-3 '41

Recent developments in cathodic protection of bare pipe lines. G. R. Olson. il Pet Eng 13:35-6, 38-40 My '42

Study of corrosion aids in protection of pipe lines. bibliog Oil & Gas J 41:191-2+ S 24; 37 O 1 '42

When should a pipe line be coated? S. Thayer. Pet Eng (Annual no) 13:158+ [Jl] '42

Pumping stations

Automatic tank-battery control simplifies lease operation. H. F. Simons. il diags Oil & Gas J 40:227-8 Mr 26 '42

Blueprint for conserving time and materials on pipe-line systems; recommendation for substations, motors, and switchgear. H. E. Dralle. il diags Pet Eng 13:76-8, 80 Mr '42

Centrifugal pumps are widely used in pipe-line service. F. R. Young. il Oil & Gas J 41:162+ S 24 '42

Co-ordinating electric pipe-line pumping equipment. W. G. Taylor. il Pet Eng 13:104+ Mr '42

Defense line station design. W. H. Stueve. map Oil & Gas J 40:44+ Mr 12 '42

Determining operating points of centrifugal pumps working on pipe lines. A. J. Stepanoff. Oil & Gas J 40:45-6, 48-9+ D 4 '41

Electrical features of design and operation of the Plantation pipe line. M. A. Hyde and H. B. Britton. il diags Elec Eng 61:Trans 638-44 S '42

PETROLEUM pipe lines—Pumping stations—*Continued*

Measurement and control features of world's outstanding pipe line; Plantation pipe line. M. A. Hyde. il map Instruments 15:288-9 Ag '42

Methods used for dealing with synchronizing pump troubles. il diag Oil & Gas J 41:103-4 S 24 '42

Midget refinery processes crude from pipelines into fuel for pumping station engines. diag Nat Pet N 34 pt2:R206-7 Jl 29 '42

New oil pipe line speedily built; Shell oil company pipe line between Ventura field and Wilmington refinery. W. H. O'Connell. il diag Comp Air M 47:6711 Ap '42

New practices improve crude and products line operation. J. G. Norton. il diag Oil & Gas J 41:78-9, 170 S 24 '42

New Shell pipe-line station is designed for easy maintenance. T. P. Sanders. il diag Oil & Gas J 40:37 D 18 '41

Operation of electrical centrifugal stations. P. Reed. il Oil & Gas J 40:42 Ja 8 '42

Pipe-line operators plan for increased needs. P. Reed. il Oil & Gas J 40:25-6 D 11 '41

Pipe lines; their construction and operation. G. A. Palmer. il Pet Eng 13:67-8, 70 Ap '42

Plantation pipe line pumping stations feature automatic control. Pet Eng 13:147 My '42

Power records aid operations. W. H. Stueve. Oil & Gas J 41:33 S 3 '42

Soil mechanics studies and reconstruction work; protecting pumping station from slides; Grapevine grade on U.S. 99 in California. V. J. Brown. il diags plan Roads & Sts 85:25-32 Mr '42

Standard of Louisiana has complete shop for maintenance. P. Reed. il Oil & Gas J 41:178+ S 24 '42

Station operation departs from many customary practices. M. A. Hyde. il diag Oil & Gas J 41:155-6+ S 24 '42

Turbochargers increase output of four-cycle Diesel engines; Buchi system. J. P. Stewart. il Oil & Gas J 41:113-14+ S 24 '42; Same cond. Power 86:708-10 O '42

Regulation

See also
Petroleum industry and trade—Regulation

Colombia

Colombian pipe line presents severe maintenance problems. il map Oil & Gas J 40:126+ D 25 '41

PETROLEUM products

Acetylene and other war chemicals made by cracking in a regenerative furnace. diags Nat Pet N 34 pt 2:R270-2, R274-6 Ag 26 '42

Alcohol from petroleum hydrocarbons. W. L. Nelson. Oil & Gas J 41:40 Jl 23 '42

Demands in 1942 to establish new record for the industry. J. P. O'Donnell. il Oil & Gas J 40:28-30+ N 27 '41

Detergents from petroleum; Nacconol NR as illustration. L. Flett. il Chem & Eng N 20:844-8 Jl 10 '42

Development of the new chemical industry based upon petroleum. R. H. H. Morley. bibliog Soc Dyers & Col J 58:133-7; Discussion. 137 Jl '42

Diversity of coastal plants invites chemical affiliation. H. S. Norman. il Oil & Gas J 41:170+ Je 25 '42

Effect of petroleum products on neoprene vulcanizates; effect of kerosenes. D. F. Fraser. bibliog Ind & Eng Chem 34:1298-1300 N '42

Expansion of crude petroleum, petroleum products and allied substances. Inst Pet J 27:402-17 N '41

Farmer's in the velvet; farmers need (and are in better shape to buy) more oil products than ever. il Nat Pet N 34:31-2 My 20 '42

Glycerin, indirect product of petroleum. W. L. Nelson. Oil & Gas J 41:44 Ag 27 '42

Growing role of synthesis in supplying vital U.S. war needs from petroleum; abstracts of technical papers; A.C.S. Petroleum division. Nat Pet N 34:R115-16 Ap 15 '42

Gulf Coast refineries are abundant chemical sources. W. L. Nelson. il diag Oil & Gas J 41:165-9+ Je 25 '42

Hydrocarbon solvents from petroleum and their industrial applications. F. N. Harrap and E. B. Evans. flow sheet diags Inst Pet J 27:369-98; Discussion. 399-401 N '41

Hydroforming process now used on commercial scale. M. H. Arveson. Oil & Gas J 40:53 Ja 15 '42

Insect sprays from petroleum; formulas. W. L. Nelson. bibliog Oil & Gas J 41:57 Ag 20 '42

Marketing of petroleum products in the defense program. J. W. Frey. Am Pet Inst Proc 22(1):74-7; Discussion. 77-84 '41

Mobilizing petroleum hydrocarbons. G. F. Fitzgerald. bibliog il diag Chem & Met Eng 49:83-7 Mr '42

More refinery conversion will be needed to supply war demand. B. K. Brown. Nat Pet N 34:17-18 S 23 '42; Same abr. Oil & Gas J 41:219 S 24 '42

Oil's rubber "plantation" to supply war-time demand. H. S. Norman. il Oil & Gas J 40:24-5 Mr 12 '42

Order prohibits tin-can packages. Oil & Gas J 40:24 F 19 '42

Petroleum is plentiful source of raw material for chemicals. L. F. Hatch. Oil & Gas J 40:197-8+ Ja 29 '42; Abstract. Chem & Met Eng 49:195-6 My '42

Petroleum plastics, the acrylic resins. C. C. Pryor. il diag Pet Eng 13:80, 82-4 My '42

Petroleum products, 1941. Oil Paint & Drug Rep 141:75-7 Ja 12 '42

Petroleum research and wars. B. T. Brooks. bibliog il Ind & Eng Chem 34:798-803 Jl '42

Petroleum rubber route more economical than alcohol. H. D. Ralph. il Oil & Gas J 41:26-7+ Ag 13 '42

Petroleum; the new basic chemical. M. Pescatello. Barron's 22:25+ S 21 '42

Prevention of fires, explosions, and accidents from inflammable fluids. G. M. Kintz. Pet Eng 13:77+ Je; 75-6+ Jl '42

Progeny for war; Shell oil co. provides tour of refineries for a group of science and business writers. W. C. Platt. il Nat Pet N 34:15-17 My 13 '42

Refinery conversion program will provide oil products to meet many war demands. Nat Pet N 34 pt 2:R247-9 Ag 26 '42

Return of normal outlets hope of small refiner. W. T. Ziegenhain. Oil & Gas J 41:31 Je 4 '42

Revenue from refinery products now lowest realized in 16 months. J. P. O'Donnell. Oil & Gas J 41:13 O 15 '42

Rubber-from-petroleum chart. Nat Pet N 34:R190-1 Je 10 '42

Shift of refinery runs from high to low-price areas depresses market. J. P. O'Donnell. Oil & Gas J 41:29 O 22 '42

Specific gravity of petroleum oils by the falling drop method. A. J. Hoiberg. bibliog diag Ind & Eng Chem Anal ed 14:323-5 Ap 15 '42

Styrene from petroleum for synthetic rubber. Oil & Gas J 41:168 Jl 30 '42

Supply, demand pictured in report to P.I.W.C. Nat Pet N 34:28-31 S 9 '42

Synthetic rubbers to meet requirements of natural rubber in industry. C. C. Pryor. Pet Eng 13:127-8 My '42

Tin cans for oil industry will be cut off by Nelson. Nat Pet N 34:8+ F 18 '42

Wide variety of chemicals made from refinery gases. W. T. Ziegenhain. flow chart il Oil & Gas J 41:185-6+ Je 25 '42

See also
Gas oil
Gasoline
Hydrocarbons
Kerosene
Liquefied petroleum gas
Lubricating greases
Lubricating oils
Naphthenic acids
Oil fuel
Paraffin
Petroleum distillation
Petroleum refining

PETROLEUM products—*Continued*

Analysis

Determination of types of sulfur compounds in petroleum distillates. J. S. Ball. U S Bur Mines Rep of Invest 3591:1-60 bibliog(88 titles, p55-60) '41

Proposed method of test for neutralization number of petroleum products by electrometric titration. diag Am Soc T M Proc 41:342-7 '41

Patents

Patents on special products. Inst Pet J 27: 476A-7A N '41

Prices

Dearer petrol; wholesale prices per gallon. Economist 142:266 F 21 '42

Henderson clarifies policy of OPA on oil price ceiling. Oil & Gas J 40:14-15+ Ja 22 '42

Henderson outlines procedure for obtaining price increases. H. D. Ralph. Oil & Gas J 40:22 D 4 '41

Hike granted in oil prices on East coast; with text of order. Nat Pet N 34:3, 10-11 Ap 1 '42

OPA acts to fix ceilings on a delivered price basis. Nat Pet N 34:5 S 2 '42

OPA freezes all oil prices. W. C. Platt, ed. Nat Pet N 33:11, 14-15 N 12 '41

OPA permits price hikes in district 1. Nat Pet N 34:3, 5-7 Jl 1 '42

Oil price freeze move still confuses industry. Nat Pet N 33:5-6 N 26 '41

Opinions vary on how war costs should be paid; war service awards or adjustments in prices. C. O. Willson. Oil & Gas J 41: 63-4 Je 25 '42

Outlook for refinery market is clouded by exigencies of war. H. S. Norman. Oil & Gas J 40:91-2 Ja 29 '42

Price ceiling penalizes progress. J. P. O'Donnell. Oil & Gas J 40:13+ Ja 1 '42

Price ceilings placed on all petroleum products. H. D. Ralph. Oil & Gas J 40:21-2 My 7 '42

Price ceilings removed from three petroleum products. Oil & Gas J 41:19 Je 18 '42

Price control moves puzzle oil industry; with text of schedule 88. Nat Pet N 34:5+, 17-19 F 11 '42; Same (text). Oil & Gas J 40:26, 78 F 12 '42

Price relief granted the oil industry is relatively minor. J. P. O'Donnell. Oil & Gas J 41:24 Je 11 '42

Primary refinery-product prices cling to ceilings. H. S. Norman. Oil & Gas J 41: 142 Jl 30 '42

Recapitulation of oil-price rulings shows trend of OPA control. Oil & Gas J 41:29-30 Ag 27 '42

RFC finishes war-cost plan for East's oil. Nat Pet N 34:3+ S 2 '42

RFC wartime finance plan; with text. Nat Pet N 34:3+, 34-5 S 9 '42

Refinery and tank-wagon prices. Published in weekly numbers of Oil and gas journal

Refinery, seaboard and tank wagon prices. Published in weekly numbers of National petroleum news

Sharp price rise approved to offset rail-shipping costs. Oil & Gas J 41:18 Jl 2 '42

Specific prices for distillates set in Michigan. Nat Pet N 34:26 O 28 '42

Text of Henderson's letter clarifying freeze request. Nat Pet N 33:18 D 3 '41

Specifications

British specifications revised for aviation fuel base stocks; other products. Nat Pet N 34: R102, R104 Ap 1 '42

New specifications issued by British petroleum mission. Nat Pet N 33:R408, R410+ D 24 '41

Standards

ASA approves new standards for petroleum products. Ind Stand 12:297-8 N '41

Report of A.S.T.M. committee D-2 on petroleum products and lubricants. Am Soc T M Proc 41:330-40 '41

Statistics

Consumption of gasoline rises sharply in Canada; statistics of products consumption, 1941, Jan.-May 1942. W. V. Howard. Oil & Gas J 41:28 Je 18 '42

East Coast demand and supply of petroleum products, quarterly, October 1940-September 1941; chart. Survey of Cur Business 22:4 Je '42

Petroleum products. Published in weekly numbers of Oil, paint and drug reporter

Testing

60 oil company technologists active in committee D-2 work of the American society for testing materials. Nat Pet N 34 pt2: R219 Jl 29 '42

Transportation

Aim for million-barrel mark in rail hauls to East coast; ODT studies role trucks will play; barge conversion plans announced. Nat Pet N 34:34 Ag 5 '42

All-rail movement is hope of drowning Gulf refiners. Nat Pet N 34:21 F 18 '42

Carriers set new tank car record. Ry Age 112:955, 1052-3, 1089 My 16-30 '42

Complete pooling of all oil transportation is indicated. C. O. Willson. il Oil & Gas J 40:10-11 Ap 16 '42

Cut in routings of solid trains ordered by ODT. Nat Pet N 34:19-20 O 7 '42

Developments in the transportation of flammable liquids on the Pacific coast. E. M. Fitz. Am Pet Inst Proc 22(1):61-6 '41; Same. Nat Pet N 33:33-6 N 12 '41

Eastern oil truckers, hard hit by the war, take their case to Price Chief Henderson. Nat Pet N 34:30 Jl 15 '42

Eastern truckers urge halt on short hauls by tank car. Nat Pet N 34:26 Ap 15 '42

Extra transportation cost pool in East may be out of the red by end of October. Nat Pet N 34:4 S 30 '42

Floods retarded oil movement in Oct. 24 week. Ry Age 113:745 N 7 '42

Increased surcharges on tanker freight rates. Marine Eng 47:140 My '42

Intracoastal waterways may aid eastern oil deliveries. H. D. Ralph. map Oil & Gas J 41:24-5 Je 4 '42

Lake hauls to link pipelines until new Ohio line is ready. Nat Pet N 34:24-5 Ag 26 '42

Machinery being created to operate product-pool plan. Oil & Gas J 41:29 O 15 '42

Maritime commission clarifies rates on tanker voyage charters to Atlantic Coast points. Nat Pet N 34:15 Ja 21 '42

Natural gasoline assn. of America launches attack on tank-car haul limitation. Oil & Gas J 41:29-30 My 21 '42

ODT urges oil's management to make Truck corps succeed. il Nat Pet N 34:24+ Ag 12 '42

OPC schedules 600 tank cars of fuel daily to East coast. Oil & Gas J 41:22 O 29 '42

Oil deliveries by tank cars reach unprecedented peaks. Oil & Gas J 40:62 Ap 30 '42

Oil grows independent of rail transportation. A. M. Petty. il map Nat Pet N 33:22-3 D 3 '41

Oil jobber group charges pooling plan works in theory only. Nat Pet N 34:7 Ap 22 '42

Oil transportation subsidy. Oil Paint & Drug Rep 142:5 Ag 3 '42

Rail oil movement to east coast; abstract. J. J. Pelley. Ry Age 113:379 S 5 '42

RFC finishes war-cost plan for East's oil. Nat Pet N 34:3+ S 2 '42

RFC wartime finance plan; with text. Nat Pet N 34:3+, 34-5 S 9 '42

Shortage of tankers hits all areas; Petroleum industry war council's report. Oil & Gas J 40:20+ Ap 16 '42

State and regional advisory groups set up by ODT's transport unit. Nat Pet N 34:30+ Ag 12 '42

Teamwork of all carriers needed to relieve oil transport shortage. Nat Pet N 34:25-6 F 18 '42

Transportation division of OPC doing vital task. H. D. Ralph. Oil & Gas J 41:22-4 N 5 '42

PETROLEUM products—Transportation—*Cont.*

Transportation jam forcing drastic oil-traffic action. H. S. Norman. Oil & Gas J 40:36+ F 26 '42

Transportation of petroleum products in Nebraska. R. L. Forrest. (Business research bul. 49) 70p bibliog(p70) pa 50c Univ. of Nebraska, Lincoln '42

27 Carolina jobbers join to form trucking company. Nat Pet N 34:22 Ap 15 '42

U.S. to help in financing oil's extra wartime costs. Nat Pet N 34:3 Jl 29 '42

Where we stand on gas and oil. R. K. Davies. il Transit J 86:322-4 S '42

See also Railroads—Rates—Petroleum and petroleum products

PETROLEUM refineries

Argentina expands refining facilities. il Oil & Gas J 40:96 D 25 '41

California refiners cushion cost rise by consolidation. L. P. Stockman. il Oil & Gas J 41:10-11 Jl 2 '42

Capacity of Uruguayan refinery increased 25 per cent. E. S. Pelufo. il Oil & Gas J 40:89 D 25 '41

Coastal refineries classified in framing operating policy. Oil & Gas J 40:15 Ap 16 '42

Conservation specialist speeds collection of scrap for Standard of California. il Nat Pet N 34:R152+ My 13 '42

Continental points way to future in its new Louisiana refinery at Lake Charles. W. T. Ziegenhain. flow diag il map Oil & Gas J 40:34-6, 38-9 N 20 '41

Conversion of refineries to war production explained. H. S. Norman. Oil & Gas J 41:13-14 Ag 6 '42

Crude shortages interrupt eastern refinery operation. J. P. O'Donnell. il Oil & Gas J 40:22 Ap 9 '42

Diversity of coastal plants invites chemical affiliation. H. S. Norman. il Oil & Gas J 41:170+ Je 25 '42

Kansas refiners enter August with low inventories. W. T. Ziegenhain. il Oil & Gas J 41:20+ Ag 6 '42

More refinery conversion will be needed to supply war demand. B. K. Brown. Nat Pet N 34:17-18 S 23 '42; Same abr. Oil & Gas J 41:219 S 24 '42

New Mississippi refinery processes Tinsley crude in combination unit. W. T. Ziegenhain. flow chart il Oil & Gas J 40:33 Ja 22 '42

Refiners shift into high in quick conversion program. H. D. Ralph. Oil & Gas J 41:12 Ag 6 '42

Refining faces realignment to meet new demands of war. Nat Pet N 34:17 Ap 15 '42

Refining facilities in the theaters of war. W. A. Sawdon. il map Pet Eng 14:108, 110 O '42

Return of normal outlets hope of small refiner. W. T. Ziegenhain. Oil & Gas J 41:31 Je 4 '42

Shift of refinery runs from high to low-price areas depresses market. J. P. O'Donnell. Oil & Gas J 41:29 O 22 '42

Small, compact and pretty, that's Maritime's refinery. il Nat Pet N 34:18+ My 20 '42

Use of dynamite saves time and money in refinery construction; removing concrete foundations. R. G. Lovell. il Pet Eng 13:125 D '41

War refinery investment is twice that of peace plant. W. T. Ziegenhain. il Oil & Gas J 40:30-1 My 7 '42

Wartime plant design centers about new ways to save critical materials. il Steel 111:92+ N 9 '42

See also

Gasoline—Manufacture

Lubricating oils—Manufacture

Petroleum distillation

Petroleum refining

Accounting

Oil refinery accounting. S. K. Waters. N A C A Bul 24:3-26 S 1 '42

Corrosion

Lime for petroleum industry; corrosion control in refineries. Rock Prod 45:90 Je '42

Stainless-steel lining retards corrosion of refinery vessels. Oil & Gas J 40:148+ Ap 30 '42

What can be done about sulphur in the refinery? A. W. Trusty. flow diags Pet Eng 13:72-4, 76-7 My '42

Costs

Quick repayment plan urged for wartime refining costs. Nat Pet N 34:13-14 S 2 '42

Design

How refineries conserve critical materials. Chem & Met Eng 49:93-4 O '42

How refiners meet war shortages with special new plant designs. Nat Pet N 34 pt 2:R251-2 Ag 26 '42

Reduce valve requirements in designing wartime plants, refiners are told. M. B. Miller. diag Nat Pet N 34 pt 2:R295-6 S 30 '42

29 places to save critical materials in building wartime refineries; tabulation. Nat Pet N 34 pt 2:R297-300 S 30 '42

Directories

Refineries operating in United States; arranged by states; Canada, by provinces; Mexican refineries. Oil & Gas J 40:152+ Mr 26 '42

World oil-refineries survey. Oil & Gas J 40:107, 110, 112+ D 25 '41

Electric equipment

How to obtain safer operation of large motors in hazardous atmospheres; inert-gas-filled motors. B. M. Mills. il diag Gen Elec R 44:601-4 N '41

New ideas in motor control. M. A. Hyde. il Oil & Gas J 40:86-7+ Mr 26 '42

Wartime selection and maintenance of refinery induction motors. B. M. Mills. il Nat Pet N 34 pt 2:R355-60 O 28 '42

Employees

Studies on the duration of disabling sickness; duration of disability from sickness and nonindustrial injuries among the male employees of an oil refining company with particular reference to the older worker, 1933-39, inclusive. W. M. Gafafer, R. Sitgreaves and E. S. Frasier. Pub Health Rep 57:112-25 Ja 23 '42

Success of war refining program threatened by drain of manpower into military service. Nat Pet N 34:22 N 4 '42

Equipment

Adaptation of the centrifugal pump to refinery use. R. G. Lovell. il diags Pet Eng (Annual no) 13:179-84+ [Jl] '42

Additional suggestions for wartime plant design. M. W. Miller. Nat Pet N 34:13-14 My 6 '42

Adequate steel allocated for industry's war plants. Oil & Gas J 41:20 Jl 2 '42

Ashland refining completes second long run on crude distillation unit. il Oil & Gas J 41:198 Je 25 '42

Available steels for the petroleum industry under present emergency conditions. A. Grodner. il Steel 111:72-3 Ag 17 '42; Same. Nat Pet N 34 pt 2:R265-6 Ag 26 '42

Basic considerations of refinery pumping. R. G. Lovell. diags Pet Eng 13:61, 64, 66+ Je '42

Buyers' guide of refinery equipment. Oil & Gas J 40:B1-B63 Mr 26 '42

Caliper facilitates inspection of high-pressure tubes. il Oil & Gas J 40:59 N 13 '41

Carburization of cracking-still tubes during service. C. L. Clark. il Oil & Gas J 40:69-70 N 27 '41

Care of return-bend fittings keeps refineries operating. M. E. Burkhart. Oil & Gas J 41:47 Je 4 '42

Conserve control instruments in design of wartime plants, refiners urged. M. B. Miller. Nat Pet N 34 pt 2:R353-4 O 28 '42

Conserves alloys in bolting materials; M. W. Kellogg co. Steel 111:92, 94, 97 N 2 '42

PETROLEUM refineries—Equipment—*Cont.*

Conserving alloy steels in petroleum processing equipment by specifying lower alloy contents. C. L. Clark. Steel 111:86, 123-5 S 7 '42

Converting standard compressors for service in butadiene plants. B. C. Thiel. il Nat Pet N 34 pt 2:R254-5 Ag 26 '42

Crude naphtha stabilizer performance. J. Q. McGiffin. flow diag bibliog il diags Am Inst Chem Eng Trans 38:761-88 Ag '42; Same. Nat Pet N 34 pt 2:R277-80, R282, R284-5 Ag 26 '42; Discussion. Am Inst Chem Eng Trans 38:789-90 Ag '42

Design of 100-octane units being standardized by OPC. H. S. Norman. il Oil & Gas J 40:10-11 F 12 '42

Design plants for a three-year life to save alloy steels, refiners told. Nat Pet N 34: R145-6 My 13 '42

Details of new refinery installation on Louisiana's Gulf coast at Lake Charles; alkylation and polymerization units. H. L. Flood. flow diag il plan Pet Eng 13:34+ N '41

Economics of water conditioning for scale and corrosion control; with cost data. R. C. Rohrdanz. Pet Eng 13:135-6, 138 My '42

Enameled bubble caps have longer life, clean easier than unsurfaced metal. Nat Pet N 34 pt2:R205-6 Jl 29 '42

Further suggestions given for wartime plant design. M. B. Miller. Nat Pet N 34:17-18 Jl 1 '42

Hand wheel on automatic control valve cuts block valve requirements. diags Nat Pet N 34 pt 2:R352 O 28 '42

High-temperature strength characteristics available for design of cracking-still tubes. C. L. Clark. Oil & Gas J 40:33-4 Ja 8 '42

Home-made welded flanges and fittings speed construction of war refineries. il diags Nat Pet N 34 pt 2:R348-50 O 28 '42

How to design a materials-saving war refinery manifold. il diags Nat Pet N 34 pt 2: R260-1 Ag 26 '42

Influence of testing conditions on rupture strength. C. L. Clark. Oil & Gas J 40:83 F 26 '42

Lion revamps recovery system to better supply polymerization unit. W. T. Ziegenhain. flow diag il Oil & Gas J 40:37+ D 4 '41

Liquid capacity of bubble cap plates; abstract. M. H. Hutchinson, A. J. Good and W. C. Rousseau. Nat Pet N 34 pt 2:R318 S 30 '42

Many applications for welding in refinery maintenance. G. W. Nigh. il Nat Pet N 34:R34-6, R38 F 4 '42

Material-saving suggestions in plant design. M. Miller. Nat Pet N 34:24, 26+ Ag 5 '42

Metal reclaimed from junk piles built a war lube oil plant. il Nat Pet N 34 pt2:R204-5 Jl 29 '42

New lubricating oil-decolorizing and clay-reactivating process. W. B. Chenault and A. E. Miller. flow diag il Nat Pet N 33: R374, R376-8, R380 N 26 '41

New processes bring pumping problems in the wartime refining plants. D. T. Whiting and K. P. Hurley. Nat Pet N 34 pt 2:R263-4 Ag 26 '42

New still adds efficiency to Lago Venezuela plant. il Oil & Gas J 40:151 D 25 '41

OPC issues recommendations on use of refinery instruments. diags Oil & Gas J 41: 48-9 O 15 '42

OPC lists surplus equipment and materials available for wartime refinery construction. Nat Pet N 34:15 O 7 '42

Overcoming difficulty of separating water from slop oil in refinery. R. G. Lovell. diags Pet Eng 13:90, 92, 94+ Ap '42

Performance of refinery gas absorbers with and without intercoolers. R. M. Jackson and T. K. Sherwood. plans Am Inst Chem Eng Trans 37:959-78 D '41; Same abr. Nat Pet N 34:R134, R136-7, R140+ Ap 29 '42

Plastics used as substitute materials in wartime refinery maintenance. Nat Pet N 34 pt 2:R301-4 S 30 '42

Precise commercial fractionation in 1,000-barrel Stedman unit. L. B. Bragg and F. Morton. bibliog flow sheet il Am Pet Inst Proc 22(3):38-43 '41; Same. Nat Pet N 33: R355-6, R358 N 12 '41; Discussion. Am Pet Inst Proc 22(3):43-4 '41

Procedure for converting refining equipment to produce war materials outlined by OPC. Oil & Gas J 41:69-70 Ag 27 '42

Proper instrument maintenance keeps plants on stream. R. C. Kennan. il Oil & Gas J 40:153-5 Ap 30 '42

Reaction chambers on thermal cracking units. R. C. Mithoff and L. F. Schimansky. flow diag Am Pet Inst Proc 22(3):52-7 '41; Same. Oil & Gas J 40:135-6+ N 6 '41; Excerpts. Nat Pet N 33:R360+ N 12 '41; Discussion. Am Pet Inst Proc 22(3):57-8 '41

Reclaiming used refinery equipment. A. P. Schulze. il Pet Eng 13:107-9, 112, 114 My '42

Reclamation projects standardized to save working time and money. il Nat Pet N 34 pt 2:R253 Ag 26 '42

Refiners hunt for scrap to ease steel shortages. Nat Pet N 34:18-19 Ap 8 '42

Refinery applications of rotary pumps. R. G. Lovell. il diags Pet Eng 14:38+ O; 74, 76+ N '42

Refinery catalog. 1940 ed v 9 529p $7 Gulf pub. co, 3301 Buffalo drive, Houston, Tex. '40

Refinery ideas. il diag Oil & Gas J 40:49 Ja 15; 96, 101, 104, 124, 145, 148 Mr 26 '42

Relative hot ductility of steels shown by stress-rupture data. C. L. Clark. Oil & Gas J 40:35+ F 5 '42

Salvaged metal is used in refinery construction program. W. T. Ziegenhain. il Oil & Gas J 41:22-3+ Jl 16 '42

Save, not a new word to petroleum refiners. W. T. Ziegenhain. il diag Oil & Gas J 40: 98, 100+ Ap 30 '42

Selecting rotary pumps for the refinery. R. G. Lovell. Pet Eng 13:58+ S '42

Steels for refinery services. W. L. Nelson. Oil & Gas J 41:44 O 1 '42

Steps in revamping pipe line serving a Kansas refinery. W. Jack. il Oil & Gas J 41:110 S 24 '42

Substitute metals and alloys for refinery uses. B. B. Morton. Pet Eng 13:130, 132 My '42

Suggestions for wartime plant design. M. B. Miller. Nat Pet N 34:18-19 Mr 25 '42

Tankage juggled, vessels converted, to conserve steel in wartime plant. W. F. Court. Nat Pet N 34 pt 2:R351 O 28 '42

Technique of precision control in refining processes. R. B. Werey. diags Pet Eng 13: 86+ My '42

Tests show effect on steels in cracking coil tubes of changes in chromium content. C. L. Clark. Nat Pet N 34:R147-50 My 13 '42; Excerpt. Oil & Gas J 40:48+ Mr 19 '42

29 places to save critical materials in building wartime refineries; tabulation. Nat Pet N 34 pt 2:R297-300 S 30 '42

Two types of filtration are combined in Valvoline plant. J. P. O'Donnell. il diag Oil & Gas J 40:40-1 D 18 '41

Use the new NE steels, specify to meet operating conditions only, WPB to tell petroleum refiners. Nat Pet N 34:R177-8 Je 10 '42

War emergency specifications are proposed for refinery bolting to conserve alloys. Nat Pet N 34 pt 2:R257-9 Ag 26 '42

War emergency steel-making changes refinery design. Nat Pet N 34 pt2:R199-203 Jl 29 '42

Wartime practices adopted to conserve centrifugal pumps in refineries. Nat Pet N 34 pt 2:R354 O 28 '42

Fires and fire protection

Fire protection in refineries. 3d ed 116p pa $1 Am. petroleum inst, Division of refining, New York '41

Foam directory provides for pooling supplies in oil fire emergency. G. A. Lexander. Nat Pet N 34 pt2:R207 Jl 29 '42

One-man fire-fighting equipment in refinery. il Oil & Gas J 40:93 Mr 26 '42

PETROLEUM refineries—Fires and fire protection—*Continued*

Fuel

Survey of fuel consumption at refineries in 1940. G. R. Hopkins. charts U S Bur Mines Rep of Invest 3607:1-6 '42; Same cond. Nat Pet N 34:R84, R86 Mr 18 '42

Power

Byproduct power from process gases; abstracts. J. Goldsbury and J. R. Henderson. diags Power Pl Eng 45:60-1 D '41; Nat Pet N 34 pt2:R211-13; Discussion. R213 Jl 29 '42

Purchased power in oil refining. W. H. Stueve. Oil & Gas J 41:50 Jl 16 '42

Protection

Blackout technique devised by Gulf Coast plants. N. Williams. Oil & Gas J 40:76+ F 26 '42

Camouflage on the oil front. M. L. Gendel. il Oil & Gas J 41:39, 41 Ag 13 '42

Camouflaging the industrial plant from aerial attack. H. Goff. il Pet Eng 13:98, 100+ S; 14:33-4 O '42

Continuous weather recording provides refinery protection. N. Williams. il Oil & Gas J 40:59-60 N 27 '41

Eastern plant cooperates with plant-protection authorities. il Oil & Gas J 41:43 S 3 '42

Effective camouflage as means of protecting oil property. K. J. Keating. il Oil & Gas J 40:225-6 Mr 26 '42

Experiences of operating refinery in war area (France). il Oil & Gas J 40:78-9 Mr 26 '42

Safety measures

Army to push safety drive in refineries. F. E. Wilder. Nat Pet N 34:27 O 28 '42

How the world's safety record for refineries was made; Standard oil co. (Indiana) refinery at Wood River, Ill. L. D. Palmer. il Oil & Gas J 41:43-5 O 22 '42

Safety in the refinery. D. V. Stroop. Pet Eng 13:31-2 Je '42

Waste

Overcoming difficulty of separating water from slop oil in refinery. R. G. Lovell. diags Pet Eng 13:90, 92, 94+ Ap '42

Spent fuller's earth found effective in control of incendiary bombs. G. C. Jones. il Nat Pet N 34:R163-6+ My 27 '42

PETROLEUM refineries, Cooperative

More co-op gas; second refinery property bought by C.C.A. Business Week p46-7 N 22 '41

PETROLEUM refining

Abrupt refinery adjustments reflect swing to fuel oils. H. S. Norman. map Oil & Gas J 41:8-10 S 3 '42

American petroleum institute papers covered all branches of refining. Nat Pet N 33:R360, R362 N 12 '41

Anhydrous hydrofluoric acid; properties as an alkylation catalyst. Nat Pet N 34 pt 2: R366-8 O 28 '42

Bender lead sulfide treating process proves economical. L. Eaby. bibliog il diag Oil & Gas J 40:25-7 Ja 22 '42

Canadian petroleum industry meets the war challenge. il Can Chem & Process Ind 25: 575-8 N '41

Catalytic chemistry in World war II; developments centre in petroleum technology. H. S. Taylor. Can Chem & Process Ind 26:339-40 Je '42; Abstract. Chem Ind 51:243 Ag '42

Catalytic reactions. H. W. Lohse. bibliog Can Chem & Process Ind 26:302+ My '42

Chemical refining of petroleum; the action of various refining agents and chemicals on petroleum and its products. V. A. Kalichevsky and B. A. Stagner. rev ed 550p $7.50 Reinhold pub. corp. '42

Commercial vehicles and lower-octane fuels. W. H. Hubner. S A E J 50:125-7 Ap '42

Conversion of refineries to war production explained. H. S. Norman. Oil & Gas J 41:13-14 Ag 6 '42

Correlation of filter plant yields with lab results. G. C. Jones. Nat Pet N 34:R57-8 F 18 '42

Critical states of two-component paraffin systems. F. D. Mayfield. bibliog Ind & Eng Chem 34:843-9 Jl '42

Filtration of oils by the use of prepared magnesium silicate. H. E. Bierce. il Oil & Gas J 41:47-8 S 10 '42

First annual refinery number. bibliog il diags Pet Eng 13:72-120 My '42

$400,000,000 rubber program presents problems to refiners. W. L. Nelson. Oil & Gas J 40:19 Ja 15 '42

Gulf Coast refineries are abundant chemical sources. W. L. Nelson. il diag Oil & Gas J 41:165-9+ Je 25 '42

Hydrocarbon-water solubilities at elevated temperatures and pressures. J. Griswold and J. E. Kasch. bibliog Ind & Eng Chem 34:804-6 Jl '42

Importance of refining in wartime economy. W. W. Gary. Nat Pet N 34:17-18 Ap 1 '42

Influence of recovery temperature on the ductility of the recovered asphalt. C. Bussow. Am Soc T M Proc 41:1131-3 '41

Isolation of hydrocarbon stocks for 100-octane aviation fuel. W. L. Nelson. diags Oil & Gas J 40:38-9 Ja 8 '42

Many new developments shown in the California refining industry. G. B. Murphy. Nat Pet N 33:R369 N 26 '41

Mixed-solvent extraction. A. V. Brancker, T. G. Hunter and A. W. Nash. bibliog Inst Pet J 28:15-26 Ja '42

Naphthenic acids; manufacture, properties, and uses; patents. E. R. Littmann and J. R. M. Klotz. Chem R 30:97-111 bibliog(p107-11) F '42

New lubricating oil extraction solvent reported to American institute of chemical engineers; abstracts of papers. Nat Pet N 34:R146 My 13 '42

New technique raises yield of refinery war materials; Standard oil co. of New Jersey fluid catalyst process in conjunction with the sulfuric acid alkylation. J. P. O'Donnell. diag Oil & Gas J 41:34-5 My 28 '42

Newest techniques; text in English and Spanish. il Oil & Gas J 40:224+ D 25 '41

Obtaining asphalt flux by reducing Michigan crude oil. J. C. Albright. il Pet Eng 13: 82 D '41

Oil and chemical industry. F. Kind. Chem Age (Lond) 46:122 Mr 7 '42

Oil refining's wartime accomplishments. W. Gary. Nat Pet N 34:19-20 Ap 22 '42

Outlook for refinery market is clouded by exigencies of war. H. S. Norman. Oil & Gas J 40:91-2 Ja 29 '42

Petroleum refinery engineering. W. L. Nelson. 2d ed 715p $6 McGraw-Hill '41

Petroleum refining. v 2 M. M. Stephens. 522p $3 Pennsylvania state college, State College, Pa. '41

Petroleum refining industry ready to meet phenomenal demand made on it. W. Miller. Min & Met 23:95-7 F '42

Petroleum's past, present and future. R. P. Russell. il Chem & Met Eng 49:84-5 Ja '42

Quick butadiene; the oil industry's answer. il Nat Pet N 34:14-16, 18 Ag 5 '42

Quick refinery program to supply 8 war products. Nat Pet N 34:15 Ag 12 '42

Refiners adjusting yields to provide more fuel oils. H. S. Norman. Oil & Gas J 40: 71 Ap 30 '42

Refiners discuss methods of cracking-plant operation to reduce yields of motor fuel. Oil & Gas J 41:62 S 17 '42

Refiners faced with critical decisions concerning yields. H. S. Norman. il Oil & Gas J 41:19 N 5 '42

Refiners may be forced to increase fuel-oil yields. H. S. Norman. il Oil & Gas J 40:68 Mr 26 '42

Refinery catalog; a composite catalog of oil refinery equipment including process handbook and engineering data. 1940 ed v 9 529p $7 Gulf pub. co, 3301 Buffalo drive, Houston, Tex. '40

Refinery conversion program will provide oil products to meet many war demands. Nat Pet N 34 pt 2:R247-9 Ag 26 '42

PETROLEUM refining—*Continued*

Refinery practices show rapid changes during first half of 1942. W. T. Ziegenhain. Oil & Gas J 41:155-7 Jl 30 '42

Refining methods available for wartime demands. J. F. Thornton and W. C. Dickerman, jr. Oil & Gas J 40:80 F 26 '42

Refining's response to war stimulus shown in oil company 1941 reports. Nat Pet N 34:R99-100 Ap 1 '42

Semiautomatic fractionation; a rapid analytical method. B. Ferguson, jr. il diag Ind & Eng Chem Anal ed 14:493-6 Je 15 '42

Technique for refining war products explained. flow diag Oil & Gas J 40:18-19 Mr 19 '42

U.S. may need 500,000 barrels more crude refining capacity. W. Miller. Nat Pet N 34:21-2 F 11 '42

War gives refining new spot in Nation's economic program. W. T. Ziegenhain. il Oil & Gas J 40:54-5 Mr 26 '42

See also

Gasoline—Manufacture

Lubricating oils—Manufacture

Petroleum distillation

Petroleum refineries

Bibliography

NPN semi-annual subject index of refining technology articles, July-December, 1941. Nat Pet N 34:R14-15 Ja 7 '42

NPN semi-annual subject index of refining technology articles, January-June, 1942. Nat Pet N 34 pt 2:R338-9 S 30 '42

By-products

New synthetic detergent; Teepol produced as a by-product of petroleum refining; abstract. Soap & San Chem 18:61 N '42

Refinery gas, an industry within an industry. R. D. Reed. il Gas Age 89:53-4 My 7 '42

Patents

American companies instructed to make catalytic processes available to U.S.S.R. Oil & Gas J 40:77 My 7 '42

Jersey-I.G. patent deal gave U.S. edge on war processes, Senate committee told. Nat Pet N 34:5-10, 16 Ag 26 '42

OPC OK's cross-licensing, pooling of technical data. Nat Pet N 34:14 Ag 19 '42

Patents on motor fuels; abstract. Inst Pet J 28:283A-4A Jl '42

Patents on refining and refinery plant. Inst Pet J 27:457A-9A; 28:39A-40A N '41, Ja '42

Refining patents pooled, made available to Russia. Oil & Gas J 40:55 Ap 2 '42

Standard oil company of New Jersey explains foreign refining patent position. Oil & Gas J 40:21-2+ Ap 2 '42

Salt removal

Salt removal from refinery charging stock. J. C. Albright. il Pet Eng 13:94+ N '41

Study and teaching

Refinery practice for the operating man; vocational class proceedings in refinery engineering (cont). flow sheets Pet Eng 13:53-4, 57, 60 D '41; 31-2, 34, 36 Ja; 94, 96, 99-100 F; 38+ Mr; 123-4 My; 104, 106, 108 Je; 29-30 Jl; 36, 38, 40 Ag; 74, 76, 78+ S; 14:60, 62+ O; 98, 100 N '42

Study of petroleum refining; list of courses at various schools. W. L. Nelson. Oil & Gas J 40:64 D 11 '41

Training in refining engineering is growing in U. S. schools. Nat Pet N 34:R92, R94+ Mr 18 '42

Sulfur removal

What can be done about sulphur in the refinery? A. W. Trusty. flow diags Pet Eng 13:72-4, 76-7 My '42

Vapor recovery

Lion revamps recovery system to better supply polymerization unit. W. T. Ziegenhain. flow diag il Oil & Gas J 40:37+ D 4 '41

Performance of refinery gas absorbers with and without intercoolers. R. M. Jackson and T. K. Sherwood. flow sheets Nat Pet N 34:R134, R136-7, R140+ Ap 29 '42

Refinery gas, an industry within an industry. R. D. Reed. il Gas Age 89:53-4 My 7 '42

See also

Gasoline, Natural—Manufacture

PETROLEUM research

American chemical society, Petroleum division, fall meeting; abstracts of papers. Nat Pet N 34 pt 2:R318-20, R322 S 30 '42

Biennial report of Petroleum and natural-gas division, U. S. Bureau of mines, fiscal years 1940 and 1941. R. A. Cattell and others. bibliog pls U S Bur Mines Rep of Invest 3616:1-57 '42

Industrial research in the United States during 1941; advances relating to natural gas and petroleum. W. A. Hamor. il Chem & Eng N 20:20-2 Ja 10 '42

Petroleum research and wars. B. T. Brooks. bibliog il Ind & Eng Chem 34:798-803 Jl '42

Production research involves many problems in physics. A. D. Garrison. Min & Met 23:93-4 F '42

Progress in reservoir technology. M. Muskat. Pet Eng 13:27-30 Ag; 40+ S; 14:35-6 O; 65+ N '42

Progress report on the hydrocarbons in the kerosine fraction of petroleum. F. D. Rossini and B. J. Mair. bibliog diags Am Pet Inst Proc 22(3):7-12 '41; Same. Oil & Gas J 40:129, 131-2 N 6 '41

Report of A.P.I. advisory committee on fundamental research on occurrence and recovery of petroleum. Am Pet Inst Proc 22(4):103-9 '41

Synthesis and properties of hydrocarbons of high molecular weight. J. N. Cosby and L. H. Sutherland. bibliog il Am Pet Inst Proc 22(3):13-23; Discussion. 24 '41

See also

Gasoline research

Petroleum laboratories

PETROLEUM shipping terminals

New terminals spring up on "Ole Miss" waterways. map Nat Pet N 34:24-5+ Ja 21 '42

PETROLEUM storage

Basic sediment accumulation controls chemical cost. F. B. Peterson. Oil & Gas J 40:51 Ap 9 '42

Calculation of profits from gravity conservation. Oil & Gas J 40:31 Mr 5 '42

Depleted sands serve as safe, economical oil storage. F. R. Cozzens. Pet Eng 13:162 F '42

Design of oil-field tank batteries for conservation. R. M. Stuntz, jr. il diags Mech Eng 64:355-60 My '42

Internal corrosion chief enemy of storage equipment. diag Oil & Gas J 40:177-8 Ap 30 '42

See also

Oil tanks

PETROLEUM supply

Axis powers control but four per cent of world's oil. C. O. Willson. il Oil & Gas J 40:12-13+ D 18 '41

Liquid victory. S. Graham. 96p pa 1s Hutchinson & co, London '40

Production of oil in the world today. W. A. Sawdon. maps Pet Eng 14:67-70 O '42

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. bibliog(70 references) il diags Chem & Eng N 20:649-59 My 25 '42

Survey of world oil fields; statistics by countries and regions. Oil & Gas J 40:117, 120, 123 D 25 '41

World-wide oil possibilities. W. V. Howard. il maps Oil & Gas J 40:81-8 D 25 '41

See also

Petroleum—Conservation

World war, 1939—Petroleum supply

Burma

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. Chem & Eng N 20:658 My 25 '42

PETROLEUM supply—*Continued*

Chile

U.S. agrees to relieve Chilean oil shortage. Comm & Fin Chr 156:458 Ag 6 '42

Germany

Lack of steel and skilled drillers big obstacle to German oil search. Oil & Gas J 40:22 Ja 1 '42

Mountains give Soviet oil fields stout protection; with discussion of Germany's supply. L. D. Wosk. il maps Oil & Gas J 40:77-8+ D 25 '41

Nazi oil supplies. Economist 142:513 Ap 11 '42

Japan

Japan is foredoomed to failure without Far Eastern oil. W. Levy. Comm & Fin Chr 155:230 Ja 15 '42

Japan's oil drive. Business Week p35-6 Ja 24 '42

Petroleum resources. Am Gas J 156:42 F '42

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. il Chem & Eng N 20:657 My 25 '42

Latin America

Geology may afford link in good neighbor policy. W. E. Pratt. Oil & Gas J 40:44-5+ Ap 23 '42

Russia

Russia at war; oil position. Economist 143:391 S 26 '42

United States

A. P. I. reports reserves of 19.6 billion barrels. Oil & Gas J 40:28 Ap 2 '42

Ample availability of U.S. oil was no accident. P. T. Moore. Pet Eng 13:27-30 My '42

Army, navy officials want new discoveries to assure supply. Oil & Gas J 41:33 O 8 '42

Big decline in oil reserves imminent. P. T. Moore. Pet Eng 13:27-30 Ap '42

Coal, petroleum, natural gas, and electricity in the United States, 1929-40. J. R. Bradley. U S Bur Mines Information Circ 7189:1-26 '41

Discovery rate must be raised promptly. F. Buttram. Oil & Gas J 41:26 O 22 '42

Early exhaustion of available locations forseen. L. F. McCollum. Oil & Gas J 40:13-14 Ap 2 '42

Higher oil prices essential to assure reserves; summation of petroleum's position as the United Nation's cardinal war material. W. P. Cole, jr. Oil & Gas J 41:12-14 O 29 '42

Higher prices, more steel needed to spur discovery. H. D. Ralph. il Oil & Gas J 41:10-12 O 15 '42

Increased exploration required by declining discovery rate. W. V. Howard. il Oil & Gas J 40:26-7+ N 27 '41

Industry's stock position improved in 1941. Oil & Gas J 40:73 Ja 29 '42

Major-field need demands outpost-area exploration. W. V. Howard. il Oil & Gas J 40:30, 99 D 11 '41

Neglect of oil finding places future reserves in jeopardy; artificial rubber manufacture. F. Phillips. Oil & Gas J 41:18+ O 1 '42

New oil warning. Business Week p35+ N 15 '41

Notes on present status of problem of exploration. E. DeGolyer. Am Assn Pet Geologists Bul 26:1214-20 Jl '42

OPC Production division has duty of insuring oil supply. H. D. Ralph. Oil & Gas J 41:24-5+ S 10 '42

Oil era ending; superabundance of cheaply-priced petroleum not likely to continue after the war. P. T. Moore. Barron's 22:3 Ap 27 '42

Oil outlook for 1942 profoundly affected by war restrictions. H. J. Struth. map Pet Eng (Annual no) 13:23-32 [Jl] '42

Petroleum industry war council committee recommends means for increasing reserves. Oil & Gas J 40:11+ F 12 '42

Petroleum supplies. Survey of Cur Business 22:7+ Ap '42

Production record reached in 1941 with trend still up. W. V. Howard. Oil & Gas J 40:74-5 Ja 29 '42

Proven reserves, 20,299,542,000 barrels. W. V. Howard. maps Oil & Gas J 40:60-1, 78-80 Ja 29 '42

Question of petroleum reserves. P. T. Moore. Pet Eng 13:33-6 Mr '42

Reserve estimates provide important danger signals. W. V. Howard. Oil & Gas J 40:18+ Ja 1 '42

Reserve needs indicate price advance quickest solution. H. S. Norman. Oil & Gas J 40:14+ N 20 '41

Reserves added by discoveries do not balance withdrawals. W. V. Howard. map Oil & Gas J 41:54-5+ Jl 30 '42

Reserves lag behind production. R. K. Davies. Oil & Gas J 40:14+ N 13 '41

Shrinkage of oil on balance calls for new means of finding. E. DeGolyer. Oil & Gas J 40:66, 68 Ap 30 '42

Titanic struggle of resources. H. L. Ickes. Am Gas Assn Mo 24:209-12+ Je '42; Same cond. Am Gas J 156:18, 21-2 Je '42

U.S. financed exploration proposed. Nat Pet N 34:30 Jl 22 '42

War may be lost for lack of oil if OPA's low prices continue. W. P. Cole, jr. Nat Pet N 34:17-20 N 4 '42

War-time problems of the petroleum producing industry; abstract. L. C. Uren. Inst Pet J 28:197A My '42

Wildcat drilling in 1941. F. H. Lahee. bibliog map Oil & Gas J 40:48-9, 51, 53 Ap 23 '42; Same. Am Assn Pet Geologists Bul 26:969-82 Je '42

PETROLEUM waste

Electrolytic chlorinators used on east Texas disposal projects. T. P. Sanders. il Oil & Gas J 41:31-2 Jl 23 '42

Salt water disposal system utilizes noncorrosive materials. C. C. Pryor. il Pet Eng 13:42, 44, 46 Ap '42

Salt-water disposal systems. H. H. Elliston. Oil & Gas J 40:35 Ap 2 '42

Scale removed from pipe by simple treatment; use of sodium hexametaphosphate and alkaline quebracho tannin; line carrying salt water for disposal. H. F. Simons. diag Oil & Gas J 40:29-30 Ap 16 '42

Subsurface disposal of oil-field brines in Oklahoma. S. S. Taylor and E. O. Owens. pls diags map U S Bur Mines Rep of Invest 3603:1-54 '42

See also
Petroleum refineries—
Waste

PETROLEUM workers

I'm glad I'm an oil man; oil industry from the standpoint of the employe. G. Biggs. il Oil & Gas J 41:38-9 O 22 '42

Industry's technical personnel hit hardest by war service. J. P. O'Donnell. Oil & Gas J 41:30+ Jl 16 '42

Military drain on manpower may handicap oil industry. H. S. Norman. il Oil & Gas J 41:62+ S 24 '42

Union drive in oil. Business Week p72 Ap 18 '42

Venezuelan oil companies aid in rehabilitation of workers. Oil & Gas J 41:32 S 10 '42

See also
Petroleum refineries—
Employees

PETROLOGY. See Rocks

PFAHLER hall of science. See Ursinus college, Collegeville, Pennsylvania—Pfahler hall of science

PFITZINGER reaction

Utilization of alkoxy ketones in the synthesis of quinolines by the Pfitzinger reaction. S. D. Lesesne and H. R. Henze. Am Chem Soc J 64:1897-1900 Ag '42

PFIZER, Charles, and company

Common stock offered. Comm & Fin Chr 155:2461 Je 29 '42

PFIZER, Charles, and company—*Continued*

Plans recapitalization and sale of common stock. Comm & Fin Chr 155:2098 Je 1 '42; Oil Paint & Drug Rep 141:3+ Je 1 '42

PHARMACEUTICAL education, American foundation for. See American foundation for pharmaceutical education

PHARMACEUTICAL libraries

Librarian's equity in a new drug application. C. Pfeiffer. Special Lib 33:288-90 O '42

PHARMACEUTICAL research

Proprietary association urged toward intensive research plan. W. Compton. Oil Paint & Drug Rep 141:3+ My 25 '42

Research in pharmacy. Science 96:sup8 Ag 21 '42

PHARMACOLOGY

Elementary pharmacology, including drugs and solutions; a textbook for students of nursing. W. W. Krueger. 4th ed rev 287p bibliog(p265-8) $2.25 Saunders '42

Essentials of pharmacology and materia medica for nurses. A. J. Gilbert and S. Moody. 251p $2.25 C. V. Mosby co, St Louis '41

Introduction to materia medica and pharmacology. H. A. McGuigan and E. E. Krug. 3d ed 779p $3.50 C. V. Mosby co, 3523 Pine blvd, St Louis '42

Manual of pharmacology. M. Sewall. 220p bibliog(p202-4) $2 Saunders '42

Manual of pharmacology and its applications to therapeutics and toxicology. T. Sollmann. 6th ed 1298p $8.75 Saunders '42

Poulsson's Text-book of pharmacology and therapeutics. E. Poulsson. 3d ed 557p $8.50 Chemical pub. co. '41

Scale for graphically determining the slopes of dose-response curves. E. J. deBeer. Science 94:521-2 N 28 '41

Synopsis of materia medica, toxicology, and pharmacology, for students and practitioners of medicine. F. R. Davison. 2d ed 695p $5.75 C. V. Mosby co, St Louis '42

Textbook of dental pharmacology, materia dentica and pharmaco-therapeutics. W. H. O. McGehee and M. W. Green. 2d ed 462p $5 Blakiston '41

See also

Chemistry, Medical and pharmaceutical
Chemotherapy
Drugs
Mydriatics

Bibliography

Bibliography of pharmacology and chemotherapy. Published monthly by Hooker scientific library, Central college, Fayette, Mo. ($3.50)

PHARMACOPEIAS, Homeopathic

Homœopathic pharmacopæia of the United States. 6th ed rev 680p bibliog(p25-30) $6 O. Clapp & son, Boston '41

PHARMACY

See also

Drugs

Laws and legislation

See also

Drugs—Laws and legislation

Tables, calculations, etc.

Arithmetic of pharmacy. C. H. Stocking and E. L. Cataline. 7th ed rev & enl 163p $2 Van Nostrand '42

PHASE adjusters

Phase shifting up to 360 degrees. F. A. Everest. il diags Electronics 14:46-9+ N '41

PHASE change

Superliquid in two dimensions and a first-order change in a condensed monolayer. W. D. Harkins and L. E. Copeland. J Chem Phys 10:272-86 My '42

PHASE meters

Electronic phase-angle meter. E. L. Ginzton. il diags Electronics 15:60-1 My '42

Phase meter calibrator for directional antennas. D. Espy. diags Electronics 15:80+ O '42

PHASE rule and equilibrium

Equilibria in partially miscible liquids. G. Antonoff, M. Chanin and M. Hecht. J Phys Chem 46:492-6 Ap '42

Equilibria of two-dimensional systems. H. H. Rowley and W. B. Innes. bibliog diag J Phys Chem 46:537-48 My '42

Methane-isobutane system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1008-13 Ag '42

Nitromethane-isopropyl alcohol-water system; vapor-liquid equilibria in the ternary system and in the three related binary systems. J. E. Schumacher and H. Hunt. bibliog Ind & Eng Chem 34:701-4 Je '42

Phase behavior of the acetylene-ethylene system. S. W. Churchill, W. G. Collamore and D. L. Katz. bibliog diag Oil & Gas J 41:33-4, 36+ Ag 6 '42

Phase equilibria at high temperatures. R. R. White and G. G. Brown. flow diag bibliog diags Ind & Eng Chem 34:1162-74 O '42; Same. Nat Pet N 34 pt 2:R374, R376-8, R380-1, R432-5 O 28, N 25 '42

Phase equilibria in hydrocarbon systems; composition of the dew-point gas of the methane-water system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1223-7 O '42

Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42

Phase equilibria in hydrocarbon systems; thermodynamic properties of *n*-pentane. B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:730-7 Je '42

Phase equilibria in hydrocarbon systems; volumetric and phase behavior of methane-*n*-pentane system. B. H. Sage and others. bibliog Ind & Eng Chem 34:1108-17 S '42

Phase models for ternary systems. P. P. Sutton. il J Chem Educ 19:238 My '42

P-V-T-x relations of the system propane-isopentane. W. E. Vaughan and F. C. Collins. bibliog Ind & Eng Chem 34:885-90 Jl '42

Specific volumes and phase-boundary properties of separator-gas and liquid-hydrocarbon mixtures. K. Eilerts and R. V. Smith. il diags U S Bur Mines Rep of Invest 3642:1-57 '42

Studies on high molecular weight aliphatic amines and their salts; the systems octylamine-, dodecylamine- and octadecylamine-water. A. W. Ralston, C. W. Hoerr and E. J. Hoffman. il Am Chem Soc J 64:1516-23 Jl '42

Transparent phase rule model. L. Ts'ai. diags J Chem Educ 19:2 Ja '42

Validity of Antonoff's rule. G. Antonoff. bibliog J Phys Chem 46:497-9 Ap '42

Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

Vapor-liquid equilibrium data on ethyl alcohol-water and on isopropyl alcohol-water. W. M. Langdon and D. B. Keyes. bibliog diags Ind & Eng Chem 34:938-42 Ag '42

Vapor-liquid equilibrium of methanol-ethanol-water; mechanism of ethanol dehydration. J. Griswold and J. A. Dinwiddie. Ind & Eng Chem 34:1188-91 O '42

PHELPS DODGE copper products corporation

Firms charged with fraud in sale of cable to navy; denials issued. Comm & Fin Chr 156:747-8 Ag 31 '42

PHELPS DODGE corporation

Accepts WLB ruling under protest. Comm & Fin Chr 156:84 Jl 6 '42

Copper mining at Morenci. L. S. Cates and others. flow sheets il diags plans maps Min & Met 23:246-99 My '42

High yield stocks. S. Devlin. Mag of Wall St 69:659 Mr 21 '42

Stocks favored by special circumstances. E. A. Barnes. Mag of Wall St 70:194 My 30 '42

Sued on labor policies. Comm & Fin Chr 156:259 Jl 20 '42

PHENANTHRENE

Investigations in the 1-methylphenanthrene series; the synthesis of 3-acetyl-1-methylphenanthrene. T. Hasselstrom and D. Todd. bibliog Am Chem Soc J 64:1225-6 My '42

Method for the synthesis of certain 2-substituted phenanthrenes. B. Riegel, M. H. Gold and M. A. Kubico. bibliog Am Chem Soc J 64:2221-2 S '42

Nephelometric method for determination of solubilities of extremely low order. W. W. Davis and T. V. Parke, jr. Am Chem Soc J 64:101-7 Ja '42

Stereochemistry of catalytic hydrogenation; the hydrogenation of 9-phenanthrol and related substances and the identification of three of the possible stereoisomeric forms of the perhydrophenanthrene ring. R. P. Linstead, R. R. Whetstone and P. Levine. bibliog Am Chem Soc J 64:2014-22 S '42

Stereochemistry of catalytic hydrogenation; the stereochemistry of the hydrogenation of aromatic rings. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-91 S '42

Studies in dehydrogenation; spirocyclopentane-1,1′-tetralin. M. Levitz and M. T. Bogert. Am Chem Soc J 64:1719-20 Jl '42

PHENANTHRENEQUINONE

Stereochemistry of catalytic hydrogenation; the complete hydrogenation of phenanthraquinone. R. P. Linstead and P. Levine. bibliog Am Chem Soc J 64:2022-6 S '42

PHENANTHRENESULFONIC acid

Electrical conductivities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p843-9 D '41

Viscosities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p850-4 D '41

PHENANTHROL

Stereochemistry of catalytic hydrogenation; the hydrogenation of 9-phenanthrol and related substances and the identification of three of the possible stereoisomeric forms of the perhydrophenanthrene ring. R. P. Linstead, R. R. Whetstone and P. Levine. bibliog Am Chem Soc J 64:2014-22 S '42

PHENANTHROLINE

Attempts to find new antimalarials; derivatives of *m*-phenanthroline. W. O. Kermack and W. Webster. Chem Soc J p213-18 Mr '42

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

PHENANTHRYLSTILBENE

9-Vinylphenanthrenes; α-(9-phenanthryl)-stilbene. F. Bergmann. Am Chem Soc J 64:69-72 Ja '42

PHENETHYLAMINE

Physiologically active phenethylamines containing a tertiary hydroxyl. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:2451-2 O '42

PHENOBARBITAL

N-substituted derivatives of phenobarbital. H. R. Henze and J. J. Spurlock. Am Chem Soc J 63:3360-3 D '41

PHENOL

Decomposition of zinc chloride double salts of diazonium compounds by alcohols and phenol. H. H. Hodgson and C. K. Foster. Chem Soc J p581-3 S '42

Discontinuities in properties of liquid systems. G. Antonoff, M. Chanin and M. Hecht. bibliog J Phys Chem 46:486-91 Ap '42

Phenol for Stalin; U.S. plastics industry's calculations upset. Business Week p36-8 N 22 '41

Swelling of cellulose acetate in aqueous phenol solutions. R. J. B. Marsden and A. R. Urquhart. bibliog il diag Textile Inst J 33:T105-36 Jl '42; Abstract. Textile Col 64:473-4+ O '42

Synthetic phenol; outline of manufacturing methods. Can Chem & Process Ind 26:276 My '42

Manufacture

By-product phenol recovery; abstract. Am Water Works Assn J 34:1701-2 N '42

How one chemical concern now meets the war emergency; phenol plant of the Catalin corp. J. R. Callaham. flow sheet il Chem & Met Eng 49:76-9 Ag '42

Phenol recovery process. bibliog diags Chem Age (Lond) 47:85-7 Jl 25 '42

PHENOL blue

Color and constitution; the absorption of phenol blue. L. G. S. Brooker and R. H. Sprague. Am Chem Soc J 63:3214-15 N '41

PHENOL condensation products

Advances in plastics during 1941. A. J. Weith. il Mod Plastics 19:62-3 Ja '42

Colorless and transparent phenolic resins; abstract. C. R. Draper. Paint Oil & Chem R 104:18+ My 7 '42

Temperature vs. strength for phenolics. T. S. Carswell, D. Telfair and R. U. Haslanger. bibliog Mod Plastics 19:65-9 Jl '42

See also

Bakelite

PHENOLPHTHALEIN

Kinetics and equilibria of the carbinol formation of phenolphthalein. M. D. Barnes and V. K. LaMer. bibliog Am Chem Soc J 64:2312-16 O '42

PHENOLS

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides. G. M. Dyson and T. Harrington. Chem Soc J p150-3 F '42

Halogenation of phenolic ethers and anilides; some Arrhenius activation energies. B. Jones. Chem Soc J p418-20 Jl '42

Insecticide-disinfectant makers adopt standards for phenolics. Oil Paint & Drug Rep 141:7+ Je 15 '42

Kinetics and mechanism of 2,6-di-iodotyrosine formation. Choh Hao Li. bibliog Am Chem Soc J 64:1147-52 My '42

Phenol control covers substituted phenols. Oil Paint & Drug Rep 142:7+ N 9 '42

Phenols allocation order covers pure and crude acids. Oil Paint & Drug Rep 140:3+ N 17 '41

Plastics industry and defense; priorities. Mod Plastics 19:34a D '41

Synthesis of phenolic glycosides. T. H. Bembry and G. Powell. Am Chem Soc J 64:2419-20 O '42

Synthetic phenol disinfectants. J. Varley. Soap & San Chem 18:109-12 Je '42

Synthetic phenols for resin manufacture. H. Howard. Ind & Eng Chem 33:1581 D '41

See also

Phenol

PHENOTHIAZINE

Freezing point of phenothiazine. L. E. Smith and O. A. Nelson. diag Am Chem Soc J 64:461-2 F '42

Insecticidal action of phenothiazine. J. W. Zukel. Science 96:388 O 23 '42

Analysis

Colorimetric determination of phenothiazine. H. L. Cupples. Ind & Eng Chem Anal ed 14:53 Ja 15 '42

Colorimetric determination of phenothiazine with palladous chloride. L. G. Overholser and J. H. Yoe. Ind & Eng Chem Anal ed 14:646-7 Ag 15 '42

PHENYLACETONE

α,β-Dialkylphenethylamines; alkylation of phenylacetone. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:533-6 Mr '42

PHENYLALANINE acetic acid

Further study of the cyclization of ureido derivatives of unsymmetrical iminodibasic acids together with the synthesis of certain hydantoins and other related compounds. D. R. Seeger and A. MacMillan. bibliog Am Chem Soc J 64:1686-91 Jl '42

PHENYLAMINE. See Aniline

PHENYLARSONIC acid. See Benzenearsonic acid

PHENYLAZOBENZOYL esters
Azoyl derivatives of sugars and separation by chromatographic adsorption. G. H. Coleman, A. G. Farnham and A. Miller. Am Chem Soc J 64:1501-2 Jl '42

PHENYLCARBAMIC acid. See Carbanilic acid

PHENYLCROTONIC acid
Crotonic acid series; nitrogen derivatives of α-phenylcrotonic acid. M. A. Phillips. Chem Soc J p220-3 Ap '42

PHENYLCYCLOHEXANE
Position of two alicyclic hydrocarbons in the acidity series. R. D. Kleene and G. W. Wheland. bibliog Am Chem Soc J 63:3321-2 D '41

PHENYLCYCLOPENTANE
Position of two alicyclic hydrocarbons in the acidity series. R. D. Kleene and G. W. Wheland. bibliog Am Chem Soc J 63:3321-2 D '41

PHENYL ether
Experiments on the synthesis of potential cortical hormone substitutes; hydroxy-carbonyl derivatives of diphenyl ether and related compounds. J. Walker. Chem Soc J p347-53 My '42

PHENYLGLUCOSIDES
Preparation and rearrangement of phenylglycosides. E. M. Montgomery, N. K. Richtmyer and C. S. Hudson. bibliog Am Chem Soc J 64:690-4 Mr '42

PHENYLGLYOXAL
Glyoxalines; a study of the reaction between benzamidine and phenylglyoxal. R. C. Waugh, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:2028-31 S '42
Glyoxalines; some hydantoins resulting from the reaction between phenylglyoxal and urea and substituted ureas. H. J. Fisher, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:1434-6 Je '42

PHENYL group
Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64:2362-5 O '42
Determination of the angle between the phenyl groups in αα-diphenylethylene, from electric dipole moment measurements. G. E. Coates and L. E. Sutton. Chem Soc J p567-70 S '42

PHENYLHYDRAZINE
Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42
Aromatic amino and nitro compounds, their toxicity and potential dangers; a review of the literature. W. F. Von Oettingen. (Pub. health bul. 271) p158-71 U.S. Public health service, Washington; pa 25c Supt. of doc. '41
Investigation of pyrazole compounds; the reaction product of phenylhydrazine and ethyl cyanoacetate. A. Weissberger and H. D. Porter. bibliog Am Chem Soc J 64:2133-6 S '42
Potentiometric study of the oxidation of phenylhydrazine by cupric ions, including the titration of Fehling's solution with phenylhydrazine. H. T. S. Britton and E. M. Clissold. Chem Soc J p528-31 Ag '42
Use of phenylhydrazine to characterize organic acids. G. H. Stempel, jr. and G. S. Schaffel. Am Chem Soc J 64:470-1 F '42

PHENYLISATIN
Reaction of phenylmagnesium bromide with N-phenylisatin. W. C. Sumpter. Am Chem Soc J 64:1736-7 Jl '42

PHENYLMAGNESIUM bromide
Reaction of β-isodurylaldehyde cyanohydrin with phenylmagnesium bromide. A. Weissberger and D. B. Glass. bibliog Am Chem Soc J 64:1724-7 Jl '42
Reaction of phenylmagnesium bromide with N-phenylisatin. W. C. Sumpter. Am Chem Soc J 64:1736-7 Jl '42

PHENYL mercaptan. See Benzenethiol

PHENYLMERCAPTO thiazoline
Phenylmercapto-thiazolines. J. B. Niederl and W. F. Hart. Am Chem Soc J 64:2487-8 O '42

PHENYL mercury acetate
Mildewproofing military fabrics. W. S. Marsh and A. E. Duske. bibliog il Textile World 92:58-60 Ag '42

PHENYL mercury oleate
Phenyl mercuric oleate; skin irritant properties. C. P. McCord, S. F. Meek and T. A. Neal. J Ind Hygiene 23:466-9 D '41

PHENYLNAPHTHALENE
Polyphenylnaphthalenes; 1,2-diphenylnaphthalene. F. Bergmann, H. E. Eschinazi and D. Schapiro. bibliog Am Chem Soc J 64:557-8 Mr '42
Polyphenylnaphthalenes; 1,2,3-triphenylnaphthalene. F. Bergmann, D. Schapiro and H. E. Eschinazi. bibliog Am Chem Soc J 64:559-61 Mr '42

PHENYLOXAZOLE
2-Phenyloxazole and ortho-substituted derivatives. W. E. Cass. bibliog Am Chem Soc J 64:785-7 Ap '42
2-Phenyloxazole; *para*-substituted derivatives. J. J. Rosenbaum and W. E. Cass. Am Chem Soc J 64:2444-5 O '42

PHENYLPHENACYL bromide
Sulfur studies; sulfonium derivatives of *p*-phenylphenacyl bromide. R. W. Bost and H. C. Schultze. bibliog Am Chem Soc J 64:1165-7 My '42

PHENYLPHENACYL esters
Certain derivatives of the octadecenoic acids; *p*-phenylphenacyl esters; the S-benzylthiuronium salts. J. P. Kass, J. Nichols and G. O. Burr. bibliog Am Chem Soc J 64:1061-2 My '42

PHENYLPHENYL acetate
Halogenation of certain esters in the biphenyl series; the chlorination of 4-phenylphenyl acetate. C. M. S. Savoy and J. L. Abernethy. bibliog Am Chem Soc J 64:2219-21 S '42

PHENYLPHENYL benzoate
Nitration of 4-phenylphenyl benzoate. S. E. Hazlet and H. O. Van Orden. Am Chem Soc J 64:2505-6 O '42

PHENYLPHENYL chloroacetate
Bromination of 4-phenylphenyl chloroacetate. S. E. Hazlet, L. C. Hensley and H. Jass. Am Chem Soc J 64:2449-50 O '42

PHENYL phosphates
Aquo ammono phosphoric acids; preparation of N-substituted derivatives of the phenyl esters of amido- and diamidophosphoric acids. L. F. Audrieth and A. D. F. Toy. Am Chem Soc J 64:1337-9 Je '42

PHENYLPROPIOLIC acid
Preparation of phenylpropiolic acid. M. Reimer. Am Chem Soc J 64:2510 O '42

PHENYLPROPYLAMINE
Optically active vasopressor amines. W. R. Brode and M. S. Raasch. bibliog Am Chem Soc J 64:1449-50 Je '42

PHENYLENEDIAMINE
Condensation of o-phenylenediamine with ethyl acetoacetate. W. A. Sexton. Chem Soc J p303-4 Ap '42

PHI beta kappa
Phi beta kappa directory, 1776-1941. 1708p $10-$15 United chapters of Phi beta kappa, New York '41

PHI lambda upsilon
Recent election of the national officers. Science 95:244-5 Mr 6 '42

PHILADELPHIA
Philadelphia's ills; diagnosis by real estate specialist. il Business Week p34, 36 F 7 '42

See also
Housing—Philadelphia
Taxation—Philadelphia

PHILADELPHIA—*Continued*

Bridges

Famous concrete bridge has no reinforcement in arches and spandrels; Walnut Lane bridge. il Concrete 50:4 Jl '42

Industries

Philadelphia as a refrigeration center; a survey of leading companies. il Refrig Eng 44:294-7 N '42

Philadelphia's plan; postwar business problems. Business Week p18-19 Jl 4 '42

Libraries

Directory of libraries and informational sources. C. Griffin, ed. 6th ed 120p pa $1.60; to members $1.35 Special libraries council of Philadelphia and vicinity, Philadelphia '42

Philadelphia libraries; a survey of facilities, needs and opportunities. 95p, 46p $3.50 Univ. of Pennsylvania press, Philadelphia '42

Lighting

Philadelphia utility takes first blackout in stride. Elec W News ed 117:569 F 14 '42

Rapid transit

Street cars important in wartime Philadelphia. R. T. Senter. il Mass Transportation 38:228 S '42

See also

Motor bus lines—Philadelphia

Streets

Philadelphia to spend $50,000,000 for street work. map Eng N 127:765 N 27 '41

Water supply

Isolation of an aerobic sporulating lactose-fermenting organism from Philadelphia drinking water. G. M. Eisenberg. Am Water Works Assn J 34:365-6 Mr '42

New Philadelphia story; water waste survey has saved Philadelphia 13,000,000 gallons daily. M. J. McLaughlin. il Water Works & Sewerage 89:245-7 Je '42

Philadelphia cuts water waste. Eng N 129:292 Ag 27 '42

Rehabilitation of the Philadelphia water works. S. M. Van Loan. Am Water Works Assn J 34:107-14; Discussion. N. B. Jacobs. 114-16 Ja '42

PHILADELPHIA and Reading coal and iron company

Reorganization; new securities evaluated. Comm & Fin Chr 155:938 Mr 5 '42

SEC rejects amended plan. Comm & Fin Chr 155:1316 Mr 30 '42

PHILADELPHIA and western railway

Reorganization plan. Comm & Fin Chr 155:1316 Mr 30 '42

PHILADELPHIA company

Earnings, 1940 and 1941. Comm & Fin Chr 155:1316 Mr 30 '42

PHILADELPHIA electric company

Bonds offered. Comm & Fin Chr 154:1270 N 29 '41

PHILADELPHIA public ledger

Bulletin buys Ledger. Comm & Fin Chr 155:1051 Mr 12 '42

Evening ledger now suspends publication. Comm & Fin Chr 155:232 Ja 15 '42

Ledger's demise. Business Week p49 Ja 17 '42

Philadelphia ledger bankrupt. Comm & Fin Chr 155:1341 Ap 2 '42

Public ledger, inc. files petition for reorganization. Comm & Fin Chr 154:1057 N 15 '41

Suspends publication. Comm & Fin Chr 155:159 Ja 10 '42

PHILADELPHIA stock exchange

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

PHILANTHROPY

See also

Carnegie corporation
Community trusts

PHILIPPINE ISLANDS

American equipment speeds Philippine defenses. J. J. Halsema. il map Roads & Sts 84:64, 66+ D '41

Over and above our Pacific. C. M. Parr. 274p $2 Whole world & co, 104 E. 56th st, New York '42

Philippines: a study in national development. J. R. Hayden. 984p bibliog(p861-955) $9 Macmillan '42

See also

Gold mines and mining—Philippine Islands
Iron mines and mining—Philippine Islands
Mines and mineral resources—Philippine Islands
World war, 1939- —Philippine Islands

Commerce

Philippine trade responds to wartime demands. M. A. Pugh. For Comm W 5:10-11 D 13 '41

PHILLIPS, Charles John, 1908-

Author of book on glass. bibliog por Am Cer Soc Bul 20:421 N '41

PHILLIPS petroleum company

Annual report. Comm & Fin Chr 155:1218 Mr 23 '42

Thumbnail stock appraisal. Mag of Wall St 69:265 D 13 '41

Twenty-fifth birthday sees Phillips still expanding. il Oil & Gas J 41:28-9 Je 11 '42

Who's who in refining. Oil & Gas J 41:50 Jl 9 '42

PHILOSOPHY

Philosophy in a world at war; ultimate nature of the ideal and of the real. W. P. Montague. Fortune 25:102-4+ Mr '42

What man can make of man. W. E. Hocking. Fortune 25:90-3+ F '42

See also

History—Philosophy
Psychology
Science—Philosophy

Dictionaries

Dictionary of philosophy. D. D. Runes, ed. 343p $6 Alliance book corp, 212 5th av, New York '42

PHOENIX, Arizona

See also

Housing—Phoenix, Arizona

PHONETICS

Introductory phonetics. T. E. Johnson. 59p bibliog(p59) pa $1.25 T. Earle Johnson, Univ. of Alabama, University, Ala. '42

PHONOGRAPH

Measuring transcription turntable speed variations; abstract. H. E. Roys. Electronics 15:66 Ag '42

Music goes round. F. W. Gaisberg. 273p $3 Macmillan '42

Service notes on record players, automatic changers, wireless units and home recorders. M. N. Beitman, comp. 128p $1.50 Supreme publications, 3719 W. 13th st, Chicago '41

Pickup

Analytic treatment of tracking error and notes on optimal pick-up design. H. G. Baerwald. bibliog diags Soc Motion Picture Eng J 37:591-622 D '41

Correlation between elastic deformation and vertical forces in lateral recording. S. J. Begun and T. E. Lynch. bibliog diags Acoustical Soc Am J 13:284-7 Ja '42; Correction. 13:392 Ap '42

Phonograph pickups; rating. Consumers' Research Bul 9:19-21 Je '42

Playback loss in the reproduction of phonograph records. O. Kornei. bibliog diags Soc Motion Picture Eng J 37:569-90 D '41

Recent developments in record reproducing systems; abstract. G. L. Beers and C. M. Sinnett. diags Electronics 15:62, 64 Ag '42

Theory and practice of disc recording; effects of groove tracking with various phono pickups. O. Read. il diags Radio N 27:29+ F '42

PHONOGRAPH—Pickup—*Continued*

Theory and practice of disc recording; magnetic pickup. O. Read. il diags Radio N 28:18-19+ S '42

Radio pickup

Noise and wear reducing phonograph reproducer with controlled response. F. H. Goldsmith. diags Acoustical Soc Am J 13:281-3 Ja '42

Record changers

Automatic record changers. il diags Electronics 15:24-8 F '42

Automatic record changers and recorders. J. F. Rider. 723p $6 J. F. Rider, New York '41

PHONOGRAPH in education

Recordings for school use, 1942; a catalog of appraisals. J. R. Miles. 250p pa $1.24 World book co, Yonkers-on-the-Hudson, N.Y. '42

PHONOGRAPH in industry

In training salesmen, phonographic recordings are often highly useful. B. R. Canfield. Ptr Ink 197:49-50, 53-4, 56 N 14 '41

Training problems we are solving with sales talk recordings. R. V. Davis. Sales Management 50:44, 46-7 Ja 15 '42

PHONOGRAPH needles

Large radius stylus for the reproduction of lateral cut phonograph records. J. D. Reid. Acoustical Soc Am J 13:274-5 Ja '42

PHONOGRAPH records

Big season for phonograph records. Ptr Ink 197:14 N 14 '41

Correlation between elastic deformation and vertical forces in lateral recording. S. J. Begun and T. E. Lynch. bibliog diags Acoustical Soc Am J 13:284-7 Ja '42; Correction. 13:392 Ap '42

Guide to recorded music. I. Kolodin. 495p $3 Doubleday '41

How to make good recordings. rev ed 128p $1.25 Audio devices, 1600 Broadway, New York '42

Jazz record book. C. E. Smith and others. 515p bibliog(p509-10) $3.50 Smith & Durrell, New York '42

Large radius stylus for the reproduction of lateral cut phonograph records. J. D. Reid. Acoustical Soc Am J 13:274-5 Ja '42

Music on records; a new guide to the music, the performances, the recordings. B. H. Haggin. 2d ed rev 243p $2 Knopf '42

Playback loss in the reproduction of phonograph records. O. Kornei. bibliog diags Soc Motion Picture Eng J 37:569-90 D '41

Properties of the dulled lacquer cutting stylus. C. J. LeBel. diags Acoustical Soc Am J 13:265-73 Ja '42

Recent developments in record reproducing systems; abstract. G. L. Beers and C. M. Sinnett. diags Electronics 15:62, 64 Ag '42

Recording blues; WPB's order cutting use of shellac. Business Week p28+ My 2 '42

Recording standards; abstract. I. P. Rodman. diag Electronics 15:62 Ag '42

Records star again in musical world. Dun's R 50:27 Ja '42

Theory and practice of disc recording; home recording. O. Read. il diags Radio N 26:17+ S; 31-2+ O; 31+ N; 27-8+ D '41; 27:29+ F; 19+ Mr; 24-5+ Je; 28:24-5 Jl; 18-19+ S '42

Tracing distortion in the reproduction of constant amplitude recordings. L. W. Sepmeyer. Acoustical Soc Am J 13:276-80 Ja '42

Catalogs

Gramophone shop encyclopedia of recorded music. G. C. Leslie, ed. rev ed 558p $3.95 Simon & Schuster '42

Recordings for school use, 1942; a catalog of appraisals. J. R. Miles. 250p $1.24 World book co, 313 Park Hill av, Yonkers-on-Hudson, N.Y. '42

Duplication

Recording laboratory in the Library of Congress. J. B. Wiesner. il Acoustical Soc Am J 13:288-93 Ja '42

Rating

In the groove with ratings of phonograph records. W. F. Grueninger. Consumers' Research Bul 9:26-7 N '41 [cont monthly]

Used records

New disks for old; RCA-Victor to recover shellac from scrapped records. Business Week p52+ F 14 '42

Old records for new; discarded phonograph records are a source of recoverable shellac. il Mod Plastics 19:46-8+ Ap '42

Sweet charity; Philadelphia dealers of RCA-Victor turn collection of used records over to welfare agency. Business Week p53 Mr 28 '42

PHOSGENE

War gas identification sets. F. C. Hickey and J. J. Hanley. diag J Chem Educ 19:362 Ag '42

PHOSPHATASES

Ultracentrifugation of rat plasma phosphatase. E. O. Kraemer and others. Franklin Inst J 232:587-91 D '41

PHOSPHATE rock

Calcium metaphosphate; rate of reaction of phosphorus pentoxide with rock phosphate. G. L. Frear and L. H. Hull. diags Ind & Eng Chem 33:1560-6 D '41

Composition and properties of superphosphate; volatilization of fluorine in superphosphate manufacture. K. D. Jacob and others. bibliog Ind & Eng Chem 34:722-8 Je '42

Defluorination of phosphate rock in the molten state; factors affecting rate of defluorination. K. L. Elmore, E. O. Huffman and W. W. Wolf. bibliog il Ind & Eng Chem 34:40-8 Ja '42

Particle sizing and hydroseparation in phosphate recovery. B. J. Larpenteur. flow sheets il Eng & Min J 143:50-1 Mr '42

Phosphate deposits of the world, with special reference to those of the United States. G. R. Mansfield. bibliog Ind & Eng Chem 34:9-12 Ja '42

Vanadium from phosphate rock. Eng & Min J 143:61 O '42

See also

Phosphorite

Prices

Florida-Tennessee phosphate rock prices ceiled. Oil Paint & Drug Rep 142:5+ O 19 '42

Florida

Accident experience at pebble-phosphate operations in Florida, 1930-1940. F. E. Cash. U S Bur Mines Information Circ 7186:1-15 '41

Hydraulicking of Florida phosphate rock. W. J. Rude. Min & Met 22:598 D '41

International's new phosphate mine and recovery plant in the Florida pebble field. A. H. Hubbell. flow sheets il Eng & Min J 143:43-8 S '42

Metering a factor in International minerals & chemical corp.'s phosphate operations; completely electrified mines and plants. J. H. Edwards. il diag plan Eng & Min J 143:43-6 Je '42

Phosphate deposits of the world, with special reference to those of the United States. G. R. Mansfield. Ind & Eng Chem 34:11 Ja '42

Southern Phosphate's electric load now 6,500 hp. J. H. Edwards. il Eng & Min J 142:51-3 D '41

Idaho

Source of vanadium found in western phosphate rock; report issued by the American chemical society. Steel 111:94 S 14 '42

PHOSPHATES

Alkyl esters of phosphoric acid; abstract. C. A. Hochwalt and others. Chem & Met Eng 48:171 N '41

Alkyl esters of phosphoric acid; some applications in industry. H. Adler and W. H. Woodstock. bibliog(71 references) il Chem Ind 51:516-21+ O '42

PHOSPHATES—*Continued*

Arsenic in natural phosphates and phosphate fertilizers. T. H. Tremearne and K. D. Jacob. U S Agric Tech Bul 781:1-40 '41

Curing rate of rubber; effect of phosphate buffer mixtures on rate of cure of crepe rubber. E. B. Newton. bibliog Ind & Eng Chem 34:374-8 Mr '42

Deposits of calcium and aluminum phosphates in Netherlands Indies. For Comm W 5:20 N 29 '41

Fertilizers and materials, 1941. Chem & Met Eng 49:86-7 F '42

Low crystallization rate of tertiary phosphates; abstract. W. Rathje. Chem & Met Eng 49:154+ Ja '42

Northwestern phosphate survey group named. Oil Paint & Drug Rep 140:5+ N 17 '41

Particle sizing and hydroseparation in phosphate recovery. B. J. Larpenteur. flow sheets il Eng & Min J 143:50-1 Mr '42

Phosphate chemistry; symposium of the American chemical society. Chem Age (Lond) 45:245-6 N 8 '41

Phosphate coatings on steel. H. Chase. il Metals & Alloys 15:420-5 Mr '42

Phosphate complexes; abstract. H. Adler. Oil Paint & Drug Rep 141:7+ Ja 5 '42

Phosphate deposits of the world, with special reference to those of the United States. G. R. Mansfield. bibliog Ind & Eng Chem 34:9-12 Ja '42

Phosphate production in Morocco difficult. For Comm W 9:24 N 7 '42

Phosphates. bibliog il diags Ind & Eng Chem 34:9-52 Ja '42

Phosphatic fertilizer and iron from ferrophosphorus; abstract. G. L. Bridger and R. M. Neel. Can Chem & Process Ind 26:588 O '42

Recent developments in the phosphate field; with reference to patents. H. W. Easterwood. bibliog il Ind & Eng Chem 34:13-19 Ja '42

Serpentine superphosphate manufacture in New Zealand. For Comm W 5:21 D 20 '41

Some phosphate complexes; abstract. H. Adler, W. H. Woodstock and R. N. Bell. Can Chem & Process Ind 25:640 D '41

Southern Phosphate's electric load now 6,500 hp. J. H. Edwards. il Eng & Min J 142:51-3 D '41

Superphosphate awards for D. of A. needs made. Oil Paint & Drug Rep 142:7+ Ag 3 '42

Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

X-ray data on several phosphate minerals. D. McConnell. bibliog Am J Sci 240:649-57 S '42

See also

Calcium phosphates

Phosphate rock

Potassium phosphates

Sodium phosphates

Analysis

Amperometric titrations; amperometric determination of phosphate with uranyl acetate. I. M. Kolthoff and G. Cohn. bibliog Ind & Eng Chem Anal ed 14:412-18 My 15 '42

Colorimetric determination of readily soluble phosphate in soils. E. G. Williams and A. B. Stewart. Soc Chem Ind J 60:291-7 N '41

Colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in the presence of metaphosphate and pyrophosphate. H. E. Wirth. Ind & Eng Chem Anal ed 14:722-5 S 15 '42

Colorimetric method for phosphates; modification of A.O.A.C. molybdenum blue method. L. S. Stoloff. Ind & Eng Chem Anal ed 14:636-7 Ag 15 '42

Convenient colorimetric test for phosphates. G. A. Johns. il Power 86:112 F '42

Detection of orthophosphates by means of drop reactions. P. W. West and T. Houtman. bibliog Ind & Eng Chem Anal ed 14:597-9 Jl 15 '42

Estimation of ortho-, pyro-, meta-, and polyphosphates in the presence of one another. L. T. Jones. bibliog Ind & Eng Chem Anal ed 14:536-42 Jl 15 '42

Phosphate determination by the V. Lorenz procedure; abstract. Y. E. Stourdzé. Am Water Works Assn J 34:1460-1 S '42

Manufacture

Composition and properties of superphosphate; volatilization of fluorine in superphosphate manufacture. K. D. Jacob and others. bibliog Ind & Eng Chem 34:722-8 Je '42

Development of processes for metaphosphate productions. R. L. Copson, G. R. Pole and W. H. Baskervill. bibliog il diag Ind & Eng Chem 34:26-32 Ja '42

International's new phosphate mine and recovery plant in the Florida pebble field. A. H. Hubbell. flow sheets il Eng & Min J 143:43-8 S '42

Metering a factor in International minerals & chemical corp.'s phosphate operations; completely electrified mines and plants. J. H. Edwards. il diag plan Eng & Min J 143:43-6 Je '42

Photoelectric cooling control; TVA fertilizer works. P. Ewald. il diag Electronics 14:55+ N '41

Prices

Superphosphate prices to AAA raised. Oil Paint & Drug Rep 142:3+ Jl 6 '42

PHOSPHATIDES

Phosphatides from soybean oil. M. H. Thornton and H. R. Kraybill. bibliog Ind & Eng Chem 34:625-8 My '42

Studies on plasma phosphatase activity and on blood phospholipids in rats with obstructive jaundice; abstract. L. Weil and M. A. Russell. Franklin Inst J 234:288-9 S '42

PHOSPHINE

Interaction of chloramine-T and hydrogen sulphide, phosphine, and arsine. J. R. Bendall, F. G. Mann and D. Purdie. Chem Soc J p157-63 F '42

Phosphine and sludge digestion. W. Rudolfs and G. W. Stahl. bibliog diag Ind & Eng Chem 34:982-4 Ag '42

PHOSPHONITRILE chlorides

Preparation and physical properties of trimeric phosphonitrilic chloride. R. Steinman, F. B. Schirmer, jr. and L. F. Audrieth. Am Chem Soc J 64:2377-8 O '42

PHOSPHOR-bronze. See Bronze

PHOSPHORESCENCE. See Luminescence

PHOSPHORIC acid

Action of hydrogen fluoride, sulfuric acid and phosphoric acid on optically active 2-butanol. R. L. Burwell, jr. bibliog Am Chem Soc J 64:1025-31 My '42

Alkyl esters of phosphoric acid. C. A. Hochwalt and others. bibliog il Ind & Eng Chem 34:20-5 Ja '42

Alkyl esters of phosphoric acid; some applications in industry. H. Adler and W. H. Woodstock. bibliog(71 references) il Chem Ind 51:516-21+ O '42

Alkylation of benzene in the presence of acid catalysts. R. L. Burwell, jr. and S. Archer. bibliog Am Chem Soc J 64:1032-4 My '42

Aquo ammono phosphoric acids; preparation of N-substituted derivatives of the phenyl esters of amido- and diamidophosphoric acids. L. F. Audrieth and A. D. F. Toy. Am Chem Soc J 64:1337-9 Je '42

Aquo ammono phosphoric acids; the N-substituted derivatives of phosphoryl and thiophosphoryl triamide as hydrogen bonding agents. L. F. Audrieth and A. D. F. Toy. bibliog Am Chem Soc J 64:1553-5 Jl '42

Catalytic polymerization of olefins in the presence of phosphoric acid. A. Farkas and L. Farkas. bibliog diag Ind & Eng Chem 34:716-21 Je '42

Effect of inhibitors on the rate of oxidation of copper by oxygen in phosphoric acid solutions. R. W. Lawrence and J. H. Walton. bibliog J Phys Chem 46:609-16 Je '42

PHOSPHORIC acid—*Continued*

Electromagnetic mechanism of the beta phosphorescence of fluorescein in acid solution. S. I. Weissman and D. Lipkin. bibliog il diags Am Chem Soc J 64:1916-18 Ag '42

Electropolishing stainless steel. C. L. Faust and H. A. Pray. Steel 109:80, 82+ N 17 '41; Abstract. Iron Age 147:57-60 Je 26 '41

Evaluation of the buffer capacity of crude rubbers. E. B. Newton and E. A. Willson. Ind & Eng Chem 34:378-82 Mr '42

Jacobs continuous clarifier for phosphoric acid and lime clarification of melted sugar solutions used for white sugar manufacture. J. P. Greven. flow sheet il diags Ind & Eng Chem 34:633-7 My '42

Pressure filtration of phosphoric-acid- and lime-defecated refinery and whole raw sugar liquors. C. A. Frankenhoff. il Ind & Eng Chem 34:742-4 Je '42

Silver plating steel over a phosphate coating. P. J. LoPresti. il Metal Finishing 40: 533-6 O '42

Study of the reaction of ferric ion with orthophosphate in acid solution with thiocyanate as an indicator for ferric ions. O. E. Lanford and S. J. Kiehl. bibliog Am Chem Soc J 64:291-6 F '42

Analysis

Acidimetric orthophosphoric acid assay. J. A. Calamari and R. Hubata. Ind & Eng Chem Anal ed 14:55-6 Ja 15 '42

PHOSPHORITE

Phosphorite deposits on the sea floor off southern California. R. S. Dietz, K. O. Emery and F. P. Shepard. Geol Soc Bul 53:815-47, pl 1-3 bibliog(p846-7) Je '42

PHOSPHORUS

Comparative value of arsenic, antimony, and phosphorus in preventing dezincification. W. Lynes. il Am Soc T M Proc 41:859-79 bibliog(53 titles, p877-9); Discussion. 880-5 '41

Exhibit tells story of phosphorus. il Chem & Eng N 20:974-5 Ag 10 '42

Heat of fusion and the heat capacities of solid and liquid white phosphorus. F. E. Young and J. H. Hildebrand. bibliog Am Chem Soc J 64:839-40 Ap '42

See also

Sewage—Phosphorus content

Steel—Phosphorus content

Analysis

Aralac; determination of phosphorus in Aralac. F. C. Atwood. Am Dyestuff Rep 31:157-8 Mr 30 '42

Colorimetric determination of phosphorus in biological materials. R. A. Koenig and C. R. Johnson. Ind & Eng Chem Anal ed 14:155-6 F 15 '42

Colorimetric determination of phosphorus in iron ore. E. J. Center and H. H. Willard. Ind & Eng Chem Anal ed 14:287-8 Ap 15 '42

Colorimetric determination of phosphorus in soils; provision for eliminating the interference of arsenic. M. S. Sherman. bibliog Ind & Eng Chem Anal ed 14:182-5 F 15 '42

Detecting phosphorus in steel using the radioactive isotope. Chem Age (Lond) 46: 184 Ap 4 '42

Determination of phosphorus by the Lorenz method; abstract. Chem Ind 51:614 O '42

Determination of phosphorus in lubricating oil. H. Levin, F. P. Farrell and A. J. Millendorf. bibliog diag Ind & Eng Chem Anal ed 14: 122-3 F 15 '42

Electrophotometric microdetermination of phosphorus in lipide extracts. W. M. Sperry. bibliog Ind & Eng Chem Anal ed 14:88-90 Ja 15 '42

Improvements in the colorimetric microdetermination of phosphorus. C. P. Sideris. bibliog Ind & Eng Chem Anal ed 14:762-4 S 15 '42

Indirect polarographic determination of phosphorus in biological material. A. Stern. bibliog Ind & Eng Chem Anal ed 14:74-7 Ja 15 '42

Molybdenum blue reaction; a spectrophotometric study. J. T. Woods and M. G. Mellon. bibliog(76 references) Ind & Eng Chem Anal ed 13:760-4 N 15 '41

Spectrophotometric determination of phosphorus. T. D. Fontaine. Ind & Eng Chem Anal ed 14:77-8 Ja 15 '42

Biological effect

Biochemical influence of phosphorus and potassium. S. N. Farmer. bibliog Chem & Ind 61:3-4 Ja 3 '42

Isotopes

Determination of blood volume with red blood cells containing radioactive phosphorus (P^{32}). F. A. Brown, jr., L. H. Hempelmann, jr. and R. Elman. Science 96: 323-4 O 2 '42

Theoretical half-lives of forbidden β-transitions; RaE, P^{32}, K^{40}, and Rb^{87}. E. Greuling. bibliog Phys R 61:568-77 My 1 '42

Manufacture

Phosphorus furnace reactions. C. P. Zergiebel and J. W. Lucas. Electrochem Soc Trans 81 (preprint 30):439-44 Ap '42; Same. Can Chem & Process Ind 26:519-21 S '42; Abstract. Chem & Met Eng 49:159-61 D '42

PHOSPHORUS chlorides

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

PHOSPHORUS compounds

Alkyl esters of phosphoric acid; some applications in industry. H. Adler and W. H. Woodstock. bibliog(71 references) il Chem Ind 51:516-21+ O '42

Recent developments in the phosphate field; organic phosphorus compounds; with references to patents. bibliog Ind & Eng Chem 34:16-17 Ja '42

PHOSPHORUS halides

Electric moments of inorganic halides in dioxane; phosphorus, arsenic and antimony trihalides. P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:614-17 Mr '42

Radio halogen exchanges in the phosphorus halides. W. Koskoski and R. D. Fowler. bibliog Am Chem Soc J 64:850-2 Ap '42

PHOSPHORUS oxides

Calcium metaphosphate; rate of reaction of phosphorus pentoxide with rock phosphate. G. L. Frear and L. H. Hull. diags Ind & Eng Chem 33:1560-6 D '41

PHOSPHORUS poisoning

Some recent observations on phosphorus toxicology. R. B. L. Fleming, J. W. Miller and V. R. Swayne, jr. bibliog il J Ind Hygiene 24:154-8 Je '42

PHOSPHORYL compounds

Chemotherapeutic action of a N-phosphoryl derivative of 4-4′-diaminodiphenylsulfone. M. I. Smith, S. M. Rosenthal and E. L. Jackson. bibliog Pub Health Rep 57:1534-42 O 9 '42

PHOSPHORYL cyanate

Cyanates and thiocyanates of phosphorus, arsenic and antimony. H. H. Anderson. Am Chem Soc J 64:1757-9 Ag '42

PHOSPHORYL thiocyanate

Cyanates and thiocyanates of phosphorus, arsenic and antimony. H. H. Anderson. Am Chem Soc J 64:1757-9 Ag '42

PHOSPHORYL triamide

Aquo ammono phosphoric acids; the N-substituted derivatives of phosphoryl and thiophosphoryl triamide as hydrogen bonding agents. L. F. Audrieth and A. D. F. Toy. bibliog Am Chem Soc J 64:1553-5 Jl '42

PHOSPHORYLASE

Constitution of the starch synthesised *in vitro* by the agency of potato phosphorylase. W. N. Haworth, R. L. Heath and S. Peat. Chem Soc J p55-8 Ja '42

Phosphorylative glycogenolysis and calcification in cartilage. A. B. Gutman, F. B. Warrick and E. B. Gutman. bibliog Science 95:461-2 My 1 '42

PHOTOCHEMISTRY

Carboxylation; the photochemical and peroxide-catalyzed reactions of oxalyl chloride with paraffin hydrocarbons. M. S. Kharasch and H. C. Brown. bibliog Am Chem Soc J 64:329-33 F '42

Chain photolysis of acetaldehyde in intermittent light. W. L. Haden, jr. and O. K. Rice. bibliog J Chem Phys 10:445-60 Jl '42

Darkening of materials by light. F. Seitz. diag J Ap Phys 13:639-43 O '42

Effect of colored ions on the photoinactivation of invertase. H. Lardy and T. F. Anderson. Science 95:330-1 Mr 27 '42

Effect of intermittent light on a chain reaction with bimolecular and unimolecular chain-breaking steps. O. K. Rice. J Chem Phys 10:440-4 Jl '42

Harnessing the sun; energy from photochemical reaction. J. A. Sibley. Sci Am 166:286 Je '42

Luminol light reactions. A. Steigmann. Chem & Ind 60:889-90 D 20 '41

Mercury photosensitized reactions of ethylene. D. J. LeRoy and E. W. R. Steacie. bibliog diags J Chem Phys 9:829-39 D '41

Photochemical decomposition of cyclic ketones. S. W. Benson and G. B. Kistiakowsky. bibliog diag Am Chem Soc J 64:80-6 Ja '42

Photochemical studies; the photochemical decomposition of acetone in the presence of an inert gas. J. J. Howland, jr. and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3404-6 D '41

Photochemical studies; the photochemical decomposition of benzene. J. E. Wilson and W. A. Noyes, jr. bibliog Am Chem Soc J 63:3025-8 N '41

Photochemistry of isobutene. W. F. Kieffer and J. P. Howe. bibliog Am Chem Soc J 64:1-7 Ja '42

Photodisintegration of beryllium and deuterium. F. E. Myers and L. C. Van Atta. bibliog diags Phys R 61:19-22 Ja 1 '42

Photolysis of azomethane. C. V. Cannon and O. K. Rice. bibliog Am Chem Soc J 63:2900-5 N '41

Photolysis of azomethane in the presence of hydrogen. H. A. Taylor and R. G. Flowers. bibliog J Chem Phys 10:110-15 F '42

Photolysis of dimethylhydrazine. W. L. Kay and H. A. Taylor. J Chem Phys 10:497-504 Ag '42

Photolysis of ketene in the presence of hydrogen and methane. C. Rosenblum. bibliog Am Chem Soc J 63:3322-9 D '41

Photolysis of methyl acetate. W. L. Roth and G. K. Rollefson. bibliog Am Chem Soc J 64:490-4 Mr '42

Photolysis of methyl bromide. A. Gordon and H. A. Taylor. bibliog Am Chem Soc J 63:3435-41 D '41

Photolysis of persulfate. L. J. Heidt. bibliog J Chem Phys 10:297-302 My '42

Photolysis of the aliphatic aldehydes; acetaldehyde and iodine mixtures. F. E. Blacet, J. D. Heldman and D. E. Loeffler. bibliog diag Am Chem Soc J 64:889-96 Ap '42

Photoöxidation of iodide ion sensitized by eosin; the effect of the oxygen concentration and of the light intensity. R. Livingston. bibliog diag J Phys Chem 46:233-8 F '42

Photoöxidation of methyl iodide. W. J. Blaedel, R. A. Ogg, jr. and P. A. Leighton. Am Chem Soc J 64:2500-1 O '42

Photosensitive complexes in the photolysis of uranyl oxalate and their dissociation constants. L. J. Heidt. bibliog J Phys Chem 46:624-30 Je '42

Polymerization of ethylene photosensitized by 5^1P_1 cadmium atoms. E. W. R. Steacie and D. J. LeRoy. bibliog il diag J Chem Phys 10:22-34 Ja '42

Reversible photochemical processes in rigid media; a study of the phosphorescent state. G. N. Lewis, D. Lipkin and T. T. Magel. bibliog Am Chem Soc J 63:3005-18 N '41

Vapor phase photo decomposition of methyl formate. D. H. Volman. Am Chem Soc J 64:1820-1 Ag '42

Water effects upon the photochemical bromination of acetophenone. E. M. Hicks, M. H. Hicks and J. R. Sampey. bibliog Am Chem Soc J 64:887-9 Ap '42

Zinc photosensitized reactions of ethylene. H. Habeeb, D. J. LeRoy and E. W. R. Steacie. bibliog il J Chem Phys 10:261-7 My '42

See also

Light
Photographic chemistry
Photosynthesis
Polymerization
Spectrum
Ultraviolet rays
X rays

PHOTOELASTICITY

Course on experimental stress analysis. J. Marin. bibliog il J Eng Educ 32:631-9 Ap '42

Optical aspects of three-dimensional photoelasticity. R. D. Mindlin. bibliog diags Franklin Inst J 233:349-63 Ap '42

Photoelastic analysis points to stronger bolts. il Product Eng 13:476 Ag '42

Photoelastic stress analysis. W. M. Murray. il diag Am Phot 36:20-1 My '42

Photoelastic study of stresses in gear tooth fillets. T. J. Dolan and E. L. Broghamer. il diags Ill U Eng Exp Sta Bul 335:1-42 '42 (pa 45c)

Polariscope; a new aid in rail-joint design. W. E. Gadd and H. L. Lansing. il Ry Age 112:157-9+ Ja 10 '42

Present status of three-dimensional photoelasticity. R. D. Mindlin. bibliog il diag Civil Eng 12:255-8 My '42

State of stress in thick bars. M. M. Frocht and M. M. Leven. il J Ap Phys 13:308-13 My '42

Stress concentration factors in main members due to welded stiffeners. W. R. Cherry. il diags Welding J 20:sup603-8 D '41

Validity of the Langevin theory of orientation and the possibility of distinguishing between inherent and photoelastic anisotropy. W. Heller and G. Quimfe. bibliog diag Phys R 61:382 Mr 1 '42

PHOTOELECTRIC cells

Amplification by secondary-electron emission in static multipliers; abstract. H. Schnitger. Wireless Eng 19:269-70 Je '42

Automatic recorder of spectral sensitivity of photoelectric surfaces. J. T. Tykociner and L. R. Bloom. il diag Opt Soc Am J 31:689-92 N '41

Photoelectric star counter. S. W. McCuskey and R. M. Scott. il diags R Sci Instr 12:597-601 D '41

Photovoltaic effect. A. W. Copeland, O. D. Black and A. B. Garrett. diags Chem R 31:177-226 bibliog(341 references, p219-26) Ag '42

Recording spectrophotometer and spectropolarimeter. W. R. Brode and C. H. Jones. il diags Opt Soc Am J 31:743-9 D '41

Secondary emission of sublimated antimony layers; abstract. P. Görlich. Wireless Eng 19:426-7 S '42

See also

Electrodes
Photometers, Photoelectric
Recording instruments, Photoelectric
Selenium cells
Television apparatus
Vacuum tubes

Control uses

Blackout control by photocell relay. il diag Elec W 117:682+ F 21 '42

Control circuit redesigned to save parts; trade mark registering device for packaging machine. il diags Product Eng 13:242-3 Ap '42

Electric control for steam boilers on Diesel-electric and straight electric locomotives. E. H. Burgess. il diag Elec Eng 61:Trans 604-6 Ag '42

Electrical developments of 1941; printing; photoelectric color-register equipment. G. Bartlett. Gen Elec R 45:30-1 Ja '42

Electronic control; new business for servicemen. W. Moody. il diags Radio N 28:34-5+ Jl '42

PHOTOELECTRIC cells—Control uses—*Cont.*

Electronic devices for process control. T. A. Cohen. diags Chem & Met Eng 49:100-6 Mr; 98-104 Ap '42

How to maintain positioning for successive operations in multicolor printing. W. L. Wright. il diags Gen Elec R 44:629-31 N '41; Abstract. Electronics 15:72 F '42

Light watchman; phototube for air-raid blackouts. il Gen Elec R 45:186 Mr '42

New dichroic reflector and its application to protocell monitoring systems. G. L. Dimmick. diags Soc Motion Picture Eng J 38: 36-44 Ja '42

One-lane tunnel accommodates two-way traffic by electronic operation. il Roads & Bridges 80:37, 86 S '42; Heat & Ven 39:34 O '42

Photocell-controlled dynamomoter loader; motor fuel research. R. R. Proctor. il diags Instruments 15:194-5 Je '42; Abstract. Electronics 15:110+ O '42

Photo-electric block system speeds tunnel trains; construction trains in the 13-mile Continental Divide tunnel. il Eng N 128: 752 Ap 30 '42; Elec Eng 61:457 S '42; Elec West 89:44 N '42

Photoelectic control. 39p pa 50c Worner products corp., 1019 W. Lake st., Chicago '41

Photoelectric cooling control; TVA fertilizer works. P. Ewald. il diag Electronics 14: 55+ N '41

Photo-electric device speeds meter test. il diag Elec W 117:114 Ja 10 '42

Regulators aid sodium lighting operation; operating data on Tacoma highway lighting installations. P. A. Brown. il diags Elec West 88:38-9 Ja '42

Rotary dump is interlocked by light beam control. il Coal Age 47:67 Jl '42

Safe combustion; devices which prevent boiler explosions. T. A. Cohen. il diags Dom Eng 159:62-3+ Mr '42

Simple photoelectric relay. E. B. Working. diag Science 96:281 S 18 '42

Streamlining the meter test. D. R. Taylor. diag Water Works & Sewerage 88:536-7 N '41

Temperature measurement and control by electronics. C. Walsh. bibliog il diags Electronics 15:56-61+ O '42

Industrial applications

Automatic recording; drawing of light-sensitive-cell characteristic curves accomplished by photoelectric recorder. H. T. Wrobel. il diag Gen Elec R 45:585-7 O '42

Better baking through magic eyes; photoelectric reflectometer used in testing ovens. M. Zare. Am Gas Assn Mo 23:453-4 D '41

Electronic intrusion-detection systems; burglar-alarm devices employing photoelectric, capacity and acoustic relays. il diags Electronics 15:38-43 F '42

Electronics in industry. S. R. Winters. il Radio N 28:26-7+ Ag '42

High-speed photoelectric recorder. H. L. Clark. il diags Gen Elec R 45:384-6 Jl '42

Industrial tube characteristics. diags Electronics 15:58-9 Je '42

Invisible light used to fight sabotage. R. E. Appel. diags Water Works & Sewerage 89: 260 Je '42

Meter tables combine strobo and photoelectric. L. D. Price. il Elec W 118:1262-3 O 17 '42

Optimum response scanning slit-image; sound reproduction from film. G. Logan. diags Electronics 15:140-2 Je '42

Photoelectric intrusion detection system; protection of industrial plants against sabotage. il Electronics 15:73-4 Mr '42

Photoelectrics for industrial safety; equipment using infra-red rays suited for protection of defense plants. R. E. Appel. il diags Radio N 27:36-7+ My '42

Sabotage prevention aided by electron tube equipment. Sci Am 167:29-30 Jl '42

Measurement uses

Brightness rating of metal surfaces measured by reflected light. A. M. Suggs. diag Product Eng 13:253 My '42

Coleman electronic photofluorometer. Instruments 14:390 D '41

Colloidal and physical phenomena relating to freeness and stock drainage. R. W. Reed. bibliog diags Paper Tr J 114:23-9 Je 18 '42

Detergency measurement. J. C. Gould and C. W. Selheimer. diags Soap & San Chem 18:29-31 Mr '42

Determination of citral by means of the photoelectric colorimeter. J. Bailey and C. K. Beebe. bibliog Ind & Eng Chem Anal ed 13:834-6 N 15 '41

Dew-point recorder safeguards gas line against freezing. J. A. Setter. diag Gas Age 88:31+ N 20 '41; Same. Electronics 14:72+ N '41; Same. Chem & Met Eng 49:132 F '42; Same. Pet Eng 13:134 F '42; Same. Oil & Gas J 41:90 S 24 '42; Same cond. Refrig Eng 43:180 Mr '42

Electronic eye records ultraviolet in sunshine. Refrig Eng 44:175 S '42

Electronic robot measures creep of metals. il Mach 49:160-1 O '42; Electronics 15:86+ N '42

How to measure the width of moving webs or strips; photoelectric devices; production of textiles, paper, and strip metal. E. H. Alexander. il diags Gen Elec R 44:615-17 N '41; Excerpts. Electronics 15:66+ Ja '42

Improved Penn State smokemeter. P. H. Schweitzer. il diags Instruments 15:346-50 S '42

Instrument for measuring electrical field strength in strong high frequency fields. K. S. Lion. bibliog diags R Sci Instr 13: 338-41 Ag '42

Measuring haze of transparent plastics. diag Mod Plastics 19:80+ Ag '42

Method of recording low intensity flashes of light; intensity changes in light given off by luminous animals. C. Butt and R. S. Alexander. bibliog il diag R Sci Instr 13: 151-3 Ap '42; Abstract. Electronics 15:108+ O '42

New reflectometer and a study of its performance. E. C. Bingham and D. Figlioli. bibliog il diags Paper Tr J 113:32-7 D 4 '41

Photoelectric color; description and mensuration of the color of petroleum products. I. M. Diller, R. J. De Gray and J. W. Wilson, jr. bibliog Ind & Eng Chem Anal ed 14:607-14 Ag 15 '42

Photoelectric color test proposed for lubricating and refined oils. Nat Pet N 34 pt 2: R369-70, R372-3 O 28 '42

Photoelectric colorimeter for rapid reactions. B. Chance. il diags R Sci Instr 13:158-61 Ap '42

Photoelectric detective and intensity measurement in Raman spectra. D. H. Rank, R. J. Pfister and P. D. Coleman. il diag Opt Soc Am J 32:390-6 Jl '42

Photo-electric fluorimeters and their uses. G. F. Lothian. bibliog diags Soc Chem Ind J 61:58-60 Ap '42

Photoelectric membrane manometer. W. E. Gilson. diag Science 95:513-14 My 15 '42

Photo-electric smoke meters. R. J. Wey. diags Engineer 173:283-5, 300-1+, 320-2, 342-3+ Ap 3-24 '42

Photoelectric tristimulus colorimetry with three filters. R. S. Hunter. Opt Soc Am J 32:509-38 bibliog(51 titles, p536-8) S '42; Same. U S Nat Bur Stand Circ C429:1-46; pa 10c Supt. of doc. '42

Photoflash synchronizer tester. P. A. Marsal. il diags Electronics 15:34-5 Ja '42

Powdered metal particle size quickly measured. il Iron Age 150:45 Ag 20 '42

Precision direct-reading densitometer. M. H. Sweet. bibliog il diags Soc Motion Picture Eng J 38:148-70; Discussion. 171-2 F '42; Abstract. Electronics 15:68 Jl '42

Quartz photoelectric spectrophotometer. H. H. Cary and A. O. Beckman. il diags Opt Soc Am J 31:682-9 N '41

Reflection-transmission relationships in sheet materials. H. F. Launer. bibliog Opt Soc Am J 32:84-93 F '42

Shortcuts for determining sulphur and molybdenum in alloy steels. E. R. Vance. il Steel 111:56+ Ag 31 '42

PHOTOELECTRIC cells—Measurement uses—*Continued*

Stop calibration of photographic objectives; principle of null-indicating densitometer adapted to measurement of camera lens iris settings. E. W. Silvertooth. il diag Soc Motion Picture Eng J 39:119-22 Ag '42

Surface hardness of metals; measured by reflectivity changes caused by impact of sand. B. Chalmers. il diag Engineering 153:117-20 F 6 '42; Same cond. Engineer 173:232-4 Mr 13 '42; Excerpts. Machine Design 14:82-3 F '42; Abstract. Metal Prog 41:220+ F '42; Discussion. Engineer 173: 243-4 Mr 20 '42

Temperature measurement and control by electronics. C. Walsh. bibliog il diags Electronics 15:56-61+ O '42

Turbidity comparator; useful in assaying physiologically active substances by measuring the growth of micro-organisms. R. P. Krebs and others. bibliog il diags R Sci Instr 13:299-32 My '42

Use of the phtronic cell and spectrophotometer for measuring translucency of whiteware. F. C. Arrance. il diags Am Cer Soc J 25:116-22 F 15 '42

See also

Photometers, Photoelectric

Testing

Automatic recording; drawing of light-sensitive-cell characteristic curves accomplished by photoelectric recorder. H. T. Wrobel. il diag Gen Elec R 45:585-7 O '42

PHOTOELECTRIC effect

Photoelectric properties of bismuth. H. Jupnik. bibliog diags Phys R 60:884-9 D 15 '41

Photovoltaic effect. A. W. Copeland, O. D. Black and A. B. Garrett. diags Chem R 31:177-226 bibliog(341 references, p219-26) Ag '42

Secondary electrons from semiconductors with marked photoelectric properties; abstract. H. Wolff. Wireless Eng 18:468 N '41

PHOTOELECTRIC photometers. See Photometers, Photoelectric

PHOTOELECTRICITY

See also

Electric conductivity
Electric discharges
Photoelectric cells
Photoelectric effect

PHOTOELECTRON counters. See Geiger-Müller counters

PHOTOELECTRONS. See Electrons

PHOTOENGRAVING

Depth and tone separation vital in halftone reproduction. J. T. Wrigley. il Inland Ptr 109:35-9 Ap '42

Regensteiner career an inspiration to all in graphic arts; pioneered color printing in this country. A. G. Fegert. il Inland Ptr 108:34-8 F '42

PHOTOGRAPHIC chemistry

Chemistry of developers. W. T. Hanson, jr. Am Phot 36:12-15 Ja '42

Color photography; Gasparcolor. J. S. Friedman. Am Phot 36:30-3+ Mr '42

Color photography; silver-dye bleach processes. J. S. Friedman. Am Phot 35:855-60; 36:38-40+ D '41, F '42

Elementary photographic chemistry. rev ed 160p pa $1 Eastman kodak co, Rochester, N.Y. '41

Fixing process. W. T. Hanson, jr. Am Phot 36:22-4 Mr '42

Iodine reaction and a mercury reaction of photographic importance. A. Steigmann. Soc Chem Ind J 61:82-4 My '42

New cystine tests of photographic importance. A. Steigmann. Soc Chem Ind J 61: 52 Mr '42

New stop-bath and fixing-bath formulas, and methods for their revival. J. I. Crabtree, L. E. Muehler and H. D. Russell. Am Phot 36:28-30 Ap; 12-14 My '42; Same. Soc Motion Picture Eng J 38:353-72 Ap '42

Photography in the universities; excerpts of letter from J. C. Duncan; comment by J. S. Friedman. Am Phot 36:38-41 Ap '42

Principles of chemistry. J. S. Friedman. Am Phot 36:46-7 Mr; 52, 54-5 My; 40-1 S '42

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

Wetting agents; uses in photography. G. Duggins. Am Phot 36:12-13 Ag '42

See also

Dyes and dyeing, Photographic
Photochemistry
Photographic emulsions
Photography—Developing and developers

PHOTOGRAPHIC emulsions

Contributions of Carroll and Hubbard. J. S. Friedman. Am Phot 36:38-9 S '42

Effect of temperature upon the spectral sensitivity of photographic emulsions. C. H. Evans. bibliog Opt Soc Am J 32:214-18 Ap '42

Frequency of proton and alpha-tracks in cosmic-ray stars. M. M. Shapiro. bibliog Phys R 61:115-20 F 1 '42

Laboratory modification and procedure in connection with fine-grain release printing. J. R. Wilkinson and F. L. Eich. il diags Soc Motion Picture Eng J 38:56-65 Ja '42

Mechanism of normal fog formation in hydroquinone developers. T. H. James. Franklin Inst J 234:371-83 O '42

Mercury sensitization and the optical and X-ray latent images. A. May. bibliog Opt Soc Am J 32:219-23 Ap '42

New restrainer test for photographic gelatins. A. Steigmann. Soc Chem Ind J 61: 67-8 Ap '42

Photographic action of electrons in the range between 40 and 212 kilovolts. R. F. Baker, E. G. Ramberg and J. Hillier. bibliog il diags J Ap Phys 13:450-6 Jl '42

Photographic emulsion. J. S. Friedman. diag Am Phot 36:48+ O '42

Photographic emulsion; historical outline. J. S. Friedman. Am Phot 36:48, 50+ My '42

Photographic emulsions as specific reagents for traces of mercury and copper. A. Steigmann. Soc Chem Ind J 61:51-2 Mr '42

Physics of development. W. T. Hanson, jr. il Am Phot 36:19-23 F '42

Processing of Eastman 1302 fine grain release positive in Hollywood. V. C. Shaner. diag Soc Motion Picture Eng J 38:66-73 Ja '42

Production and release applications of fine-grain films for variable-density sound recording. C. R. Daily and I. M. Chambers. il diag Soc Motion Picture Eng J 38:45-55 Ja '42

Review of the question of 16-mm emulsion position. W. H. Offenhauser, jr. Soc Motion Picture Eng J 39:123-34 Ag '42

Uniform representation of the characteristic curves of pure silver bromide emulsions, unsensitized and sensitized. L. Silberstein. bibliog Opt Soc Am J 32:474-85 Ag '42

PHOTOGRAPHIC films. See Moving picture films; Photography—Films

PHOTOGRAPHIC finishing

Photofinish fight; Coast druggists prepare to defend their film business from mail order competition. Business Week p87+ S 12 '42

PHOTOGRAPHIC laboratories

National photo company dehumidifies film drying room. Heat & Ven 39:39 Jl '42

Photographic laboratory of the FSA. B. Dudley. il plan Photo Tech 3:30-3 N '41

See also

Brown university—Photographic laboratory
Moving picture laboratories

PHOTOGRAPHIC lenses. See Lenses, Photographic

PHOTOGRAPHIC materials. See Photography—Apparatus and supplies

PHOTOGRAPHIC murals

Photo murals. J. T. Gleick. il diag Am Phot 36:52-3 Ap '42

PHOTOGRAPHIC optics

Computing distances for shop photos. A. C. Rasmussen. diag Product Eng 13:493 S '42

PHOTOGRAPHIC optics—*Continued*

IR system; an optical method for increasing depth of field. A. N. Goldsmith. il diags Soc Motion Picture Eng J 38:3-35 Ja '42; Abstracts. Electronics 14:44+ D '41; Photo Tech 3:54-5+ D '41

Photographer's rule book. L. June. 90p $1.25 Macmillan '41

See also
Lenses, Photographic

PHOTOGRAPHIC paper

Control of photographic printing by measured characteristics of the negative. L. A. Jones and C. N. Nelson. il diags Opt Soc Am J 32:558-619 O '42

Editor's point of view. F. R. Fraprie. Am Phot 36:7 Ag '42

Photographic short cut in making laboratory records; using photographic paper in place of film. S. G. Taylor. il Electronics 15:64+ F '42

Single transfer paper for carbro. D. M. Gallagher. Photo Tech 3:45-6 N '41

PHOTOGRAPHIC records

Advances made in photographing of records. Nat Underw (Life ed) 46:8 Ap 17 '42

All bank records protected against fire or bombing; Union bank and trust co., Los Angeles. R. H. Bolman. il Bankers Mo 59:256-7, 266-7 Je '42

Committee reports favorably on photographing stored records. Bankers Mo 59:458-60 O '42

Photographic short cut in making laboratory records; using photographic paper in place of film. S. G. Taylor. il Electronics 15:64+ F '42

Photographs of checks avoid disputes and losses. E. J. D. Doll. il Bankers Mo 58:496-7+ N '41

Photographs of notes avoid loss. J. Y. Beaty. Bankers Mo 59:124 Mr '42

Records by camera; traffic, merchandising, shipping, factory service, inspection, testing, research departments. W. J. Brooking. il Factory Management 100:97-8+ Jl '42

We return deposit slips to customers. R. C. Ayres. Bankers Mo 59:111-12 Mr '42

See also
Microfilm records

PHOTOGRAPHIC reproduction and projection

See also
Microfilms

PHOTOGRAPHIC research

Control of photographic printing by measured characteristics of the negative. L. A. Jones and C. N. Nelson. il diags Opt Soc Am J 32:558-619 O '42

PHOTOGRAPHIC studios. See Photography—Studios and darkrooms

PHOTOGRAPHIC surveying

Elements of photogrammetry. G. D. Whitmore. 136p $1.75 International textbook co, Scranton, Pa. '41

See also
Mapping, Aerial

PHOTOGRAPHS

Christmas greetings; using photographs as cards. R. E. Janssen. il Am Phot 36:29 N '42

How many tones? determining gradation of gray seen in prints by persons with normal sight. E. Leighten. il Photo Tech 3:37-9 D '41

Means of increasing the illusion of depth in photographs. I. Rehman and G. J. Noback. diag Science 95:463-4 My 1 '42

Photographic charcoal drawing. J. D. Schumacher. il Photo Tech 3:26-7 D '41

See also
Advertisements, Pictorial—Photographs
Photographic murals
Photography
War photographs

PHOTOGRAPHY

Camera angles. J. Deschin. Published in monthly numbers of Scientific American

Concerning photography as an art in America. L. E. Varden. Soc Motion Picture Eng J 38:549-53 Je '42

Developed image. W. T. Hanson, jr. il diags Am Phot 36:14-17 Ap; 26-8 My '42

Elementary photography for club and home use. C. B. Neblette, F. W. Brehm and E. L. Priest. 2d rev ed 289p bibliog(p284-5) $1 Macmillan '42

How experts solve problems (cont). il Photo Tech 3:6-16 N; 7-16 D '41

Lithographic half-tone photography. A. H. Reiser. 88p $4 Waltwin pub. co, 1776 Broadway, New York '41

Photographer's rule book. L. June. 90p $1.25 Macmillan '41

Photographic short cut in making laboratory records; using photographic paper in place of film. S. G. Taylor. il Electronics 15:64+ F '42

Photographing antiques. L. A. Waters. il Am Phot 36:24-6 Ap '42

Photographing television images. R. Eichberg. il diags Am Phot 36:8-12 Ap; 16-18 My; 22-4 Je '42

Photography. C. E. K. Mees. 2d ed rev 227p $3 Macmillan '42

Photography and the Franklin institute. W. N. Jennings. il Franklin Inst J 234:31-8 Jl '42

Photography in wartime. F. W. Frerk. il Am Phot 36:25 Je '42

Photography; its principles and practice. C. B. Neblette. 4th ed 865p $7.50 Van Nostrand '42

Photography: its science and practice. J. R. Roebuck and H. C. Staehle. 283p bibliog(p275-8) $5 Appleton-Century '42

Popular mechanics photo guide. 188p $1.25 Popular mechanics co, 200 E. Ontario st, Chicago '42

Postwar items; Agfa Ansco two new products tied up by priorities until peace. Business Week p78 Jl 25 '42

Sports photography. L. Wulff. 184p $2.50 A. S. Barnes, 67 W. 44th st, New York '42

Technique for ultra-close-ups. J. W. McFarlane. il diags Photo Tech 3:22-5 D '41

See also
Cameras
Color photography
Microfilms
Moving picture photography
Photographic chemistry
Photomicrography
Radiography
Slide films
Spectrography
War photographs

Apparatus and supplies

Color temperature meter holder. L. P. Flory. il Photo Tech 3:47 N '41

Efficient retouching desk. C. C. Hay. il diags Am Phot 36:38-9 My '42

Equipment for an extended trip afield; photographing General Motors' Parade of progress. J. Mills, jr. il Photo Tech 3:18-21 D '41

Gevaert company of America, photographic supply manufacturers, air conditioning system. J. J. Goovaerts. il Heat & Ven 39:66-9 Ja '42

How to make a pan and tilt head. G. L. Bewley. diags Am Phot 36:48 Jl '42

How to make an automatic timer. H. E. Rudolph. il diags Am Phot 36:28-9 Mr '42

Magic mirrors; machine that can photograph two sides at the same time. Dun's R 50:24 O '42

Packaging photographic raw materials; abstract. A. H. Livingston. Chem Ind 50:648 My '42

Photo finish; retailers face gloomy future. Business Week p70+ O 31 '42

Portable outfit. E. H. Smith. il Am Phot 36:21 Jl '42

Precision exposures with a light integrating exposure control unit. B. Dudley. il diags Photo Tech 3:30-3+ D '41

Simple technique for making your own bromoil ink. H. Kreuder. il Am Phot 36:20-1 Mr '42

Try vinegar; photographic fixing and hardening bath. E. C. Almquist. Photo Tech 3:53 D '41

PHOTOGRAPHY—Apparatus and supplies—*Continued*

Vertical camera and elevator. L. P. Flory. il Am Phot 36:18-20 Jl '42

See also

Cameras
Densitometers
Eastman kodak company
Light filters
Photographic paper

Bibliography

Accessions, May 1938-Dec. 1941; with addenda 1942; authors and short title index, Epstean collection; books on photography and its applications in the graphic arts. Special collections dept, Columbia univ. lib, New York '42

Photography and its applications. A. D. Brown, comp. 35p U.S. Lib. of Congress, Division of bibliography, Washington '41

Competitions

Our 22nd annual competition. F. R. Fraprie. il Am Phot 36:8-22 S '42

Winning pictures in Scientific American's 6th annual photography contest; list of winners. il Sci Am 166:104 F '42

Copying

Color copying with color film. H. L. Woodward, jr. Am Phot 36:36-7 S '42

Photographic copying. V. McGarrett. Am Phot 36:41-3 F '42

Dark rooms

See Photography—Studios and darkrooms

Developing and developers

Adsorption in photographic development. J. S. Friedman. Am Phot 36:44-5 F '42

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42

Chemistry of developers. W. T. Hanson, jr. Am Phot 36:12-15 Ja '42

Continuous replenishment and chemical control of motion picture developing solutions. H. L. Baumbach. bibliog Soc Motion Picture Eng J 39:55-66 Jl '42

Controlled and correlated exposure and development. W. A. Reedy. il Am Phot 36: 8-11 My '42

Determination of small amounts of iodide in photographic developers. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. Ind & Eng Chem Anal ed 14:314-16 Ap 15 '42

Developed image. W. T. Hanson, jr. il diags Am Phot 36:14-17 Ap; 26-8 My '42

Developing wash-off-relief film. W. N. Kahn. il Am Phot 36:27 S '42

Hydrazines as developing agents. J. S. Friedman. Am Phot 36:38-40 Jl '42

Iodide analysis in an MQ developer. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. bibliog Soc Motion Picture Eng J 38:180-7 F '42

Mechanism of normal fog formation in hydroquinone developers. T. H. James. Franklin Inst J 234:371-83 O '42

New restrainer test for photographic gelatins. A. Steigmann. Soc Chem Ind J 61: 67-8 Ap '42

New stop bath and fixing bath formulas and methods for their revival. J. I. Crabtree, L. E. Muehler and H. D. Russell. Am Phot 36:28-30 Ap; 12-14 My '42; Same. Soc Motion Picture Eng J 38:353-72 Ap '42

Oxidation processes; the effect of silver on the autoxidation of some photographic developing agents. A. Weissberger and D. S. Thomas, jr. bibliog Am Chem Soc J 64: 1561-7 Jl '42

Physics of development. W. T. Hanson, jr. il Am Phot 36:19-23 F '42

Reduction of silver halides and the mechanism of photographic development. T. H. James and G. Kornfeld. il Chem R 30:1-32 bibliog(153 references, p29-32) F '42

Synthetic aged developers by analysis. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. bibliog Soc Motion Picture Eng J 38:188-206 F '42

What about safelights? L. E. Goodnight. Am Phot 36:13 Ap '42

What price fine grain? J. B. Ehrhardt. Am Phot 36:11 Jl '42

Enlarging

Adjusting enlarger light sources. J. M. Weinberger. diags Photo Tech 3:34-6 N '41

Experiment in direct enlargement. E. B. Green. il Am Phot 36:47-8 F '42

Performance requirements for photographic enlargers; proposed standards. O. W. Richards. Ind Stand 13:81-3 Ap '42

Photographic enlarging; a practical handbook for the amateur. D. Charles. 101p 3s 6d Iliffe & sons, London '40

Quantitative tests for residual hypo; application for quantity production enlargements. E. Cary and A. H. Wheeler. il Am Phot 36:16-18 F '42

Trick in projection printing. T. Muir. il Photo Tech 3:28-9 D '41

Variography; action of Variograph enlarger in altering perspective. il Photo Tech 3:10-11 N '41

Visually bright "neon" enlarging light; combining mercury-argon and fluorescent lamps. K. Schlichter. il Photo Tech 3:42-5 D '41

Exposure

Army and navy will use new standard computer for picture exposures. E. M. Russell. il Ind Stand 13:171-2 Je '42

Brightness scale of exterior scenes and the computation of correct photographic exposure. L. A. Jones and H. R. Condit. il diags Opt Soc Am J 31:651-78 N '41

Controlled and correlated exposure and development. W. A. Reedy. il Am Phot 36: 8-11 My '42

Determination of exposure for kodachrome photomicrography. T. H. Morton. Photo Tech 3:50-1 D '41

Effect of gradual light absorption in photographic exposure. L. Silberstein. Opt Soc Am J 32:326-31 Je '42

Expose for the shadows! W. S. Haynes. Am Phot 36:19 My '42

Exposure and quality control on wash-off relief from kodachrome transparencies. F. A. Smyth. il Am Phot 36:12-13 Je '42

Precision exposures with a light integrating exposure control unit. B. Dudley. il diags Photo Tech 3:30-3+ D '41

Temperature and interrupted photographic exposure. J. M. Blair. diags Opt Soc Am J 32:332-3 Je '42

See also

Photography—Reciprocity law

Films

Advantages of direct copy film. F. C. Everett. Am Phot 36:47 F '42

Changeover from foil to a substitute material for packaging photographic films; abstract. A. H. Livingston. Mod Packaging 15:80 My '42

Duplicating templates by the X-ray process; sensitized film over fluorescent lacquer base used in North American Aviation photoreproduction system. il Automotive & Aviation Ind 86:44-5+ My 15 '42

Mercury sensitization and the optical and X-ray latent images. A. May. Opt Soc Am J 32:219-23 Ap '42

Photofinish fight; Coast druggists prepare to defend their film business from mail order competition. Business Week p87+ S 12 '42

Relative sensitivities of television pickup tubes, photographic film, and the human eye. A. Rose. bibliog Inst Radio Eng Proc 30:293-300 Je '42

See also

Moving picture films
Slide films

Fixing

Fixing process. W. T. Hanson, jr. Am Phot 36:22-4 Mr '42

PHOTOGRAPHY—Fixing—*Continued*

New stop-bath and fixing-bath formulas and methods for their revival. J. I. Crabtree, L. E. Muehler and H. D. Russell. Am Phot 36:28-30 Ap; 12-14 My '42; Same. Soc Motion Picture Eng J 38:353-72 Ap '42

Handbooks

Outdoors with the camera. P. Grabbe and J. E. Sherman. 103p bibliog(p102) $2.50 Harper '41

Industrial applications

Aids for analyzing high-speed action. E. M. Watson. il Gen Elec R 44:549-57 O '41; Same cond. Electrician 128:95-7 F 6 '42
Computing distances for shop photos. A. C. Rasmussen. diag Product Eng 13:493 S '42
Determination of strain distribution by the photo-grid process. G. A. Brewer and R. B. Glassco. il J Aeronautical Sci 9:1-7 N '41; Discussion. bibliog il 9:180, 371-2 Mr, Ag '42
From snapshots to film strips; taking pictures on the job provides excellent material for safety meetings. G. M. Probst. il Nat Safety N 46:22-3 Jl '42
Mass production of templates by photography. Comp Air M 47:6820 Ag '42
New uses for photography in the engineering department. il Product Eng 13:598-601 O '42
Oscillography; magnetic oscillograph. J. E. Hancock. bibliog il Gen Elec R 45:527-31 S '42
Photo-copying methods in the drawing office. il Engineer 173:415-16 My 15 '42
Photo-grid printing; technique for measuring deformations in metal. K. Cornell. il Am Phot 36:16-17 N '42
Photo templates speed production; Lockheed aircraft co. G. T. Allen. il Aviation 41: 98-9 F '42
Photo-tracings, their use in making pictorial blueprints. L. C. Jones. il diag Product Eng 13:23-5 Ja '42
Photoelastic stress analysis. W. M. Murray. il diag Am Phot 36:20-1 My '42
Photographic measuring devices developed in 2 C.A.A. projects; equipment used for aircraft certification. Civil Aero J 2:289+ N 15 '41
Photographic templates. E. C. Jewett and C. D. Tate. il diags Mech Eng 64:787-92 N '42
Photography aids bakers. P. D. Paddock. il Photo Tech 3:17 D '41
Photography utilized to break an aircraft bottleneck. Franklin Inst J 234:102 Jl '42
Photostat-tracings save drafting room time; Lockheed aircraft corporation. L. C. Jones. il diags Product Eng 13:653-5 N '42
Robot draftsman; Glenn L. Martin co. il Chem & Eng N 20:146 Ja 25 '42; Refrig Eng 43:110 F '42
Robot draftsmen at work in the Martin bomber plants; photographic reproduction of engineering drawings. il Automotive & Aviation Ind 86:24-6+ Mr 1 '42
Space-time recorder; drop testing of landing gear. F. N. M. Brown. J Aeronautical Sci 9:290-2 Je '42; Excerpts. Instruments 15: 310-11 Ag '42
Transient analyzer checks breakers and bus protection. J. H. Neher and R. J. Woodrow. il diag Elec W 116:1885-6 D 13 '41
Visual production training at Bell aircraft corp. D. G. Forman. il Aviation 41:127-9+ Jl '42

Latent image

Mercury sensitization and the optical and X-ray latent images. A. May. Opt Soc Am J 32:219-23 Ap '42
Photographic chemistry; latent image. J. S. Friedman. Am Phot 36:29-30 Ja; 45-7 F; 45-6 Mr '42
Photographic reciprocity-law failure and the ionic conductivity of the silver halides. J. H. Webb. bibliog Opt Soc Am J 32:299-303 My '42

Lighting

Arranging reflected light for metalware. M. Duitz. il diags Photo Tech 3:37-9 N '41
By candle light; special lighting for pictorial delineation of character. H. Frith. il Am Phot 36:18 Je '42
Carbon arc, a valuable industrial tool. W. C. Kalb. bibliog il Elec Eng 61:Trans 581-5 Ag '42
Electrical characteristics of stroboscopic flash lamps. P. M. Murphy and H. E. Edgerton. il diags J Ap Phys 12:848-55 D '41
Lamps in photography. T. T. Baker. diags Elec R (Lond) 129:561-4 N 21 '41
Lighting for photography, means and methods. W. Nurnberg. 172p 12s 6d Focal press, New York '40
Spot and flood lighting. A. J. Lockrey. il Am Phot 36:32-5 Je '42
Studio lighting for portraits of women. L. F. Bachrach. il Am Phot 36:26-8 Jl '42
Visually bright "neon" enlarging light; combining mercury-argon and fluorescent lamps. K. Schlichter. il Photo Tech 3:42-5 D '41

See also
Photographic optics

Negatives

Control of photographic printing by measured characteristics of the negative. L. A. Jones and C. N. Nelson. il diags Opt Soc Am J 32:558-619 O '42
Enlarged negatives by reversal. J. McLaren. Am Phot 36:28-9 Ja '42
Enlarged negatives by reversal. A. Page. Am Phot 36:30 Ja '42
Keeping records and things; filing method for negatives. F. W. L. Tydeman. il Am Phot 36:36-7 Je '42
Some investigations on graininess. Photo Tech 3:54-5 N '41

Portraits

Backgrounds and props. H. A. Von Behr. il Am Phot 36:24-5 F '42
By candle light; special lighting for pictorial delineation of character. H. Frith. il Am Phot 36:18 Je '42
Portraiture in Hollywood. S. N. Tess. il Am Phot 36:8-11 Ja '42
Professional on portraiture; work of Maurice Carnes LeClaire. J. Deschin. il diags Sci Am 166:38-9 Ja '42
Psychology and aesthetics of portraiture. A. Arkatov. il Photo Tech 3:26-8 O; 24-6 N '41
Revolution in portraiture by direct color. J. Bicknell. Am Phot 36:17 Ja '42
Technique of emotional expression in pictures. M. J. Breuer. Am Phot 36:36-7 Ap '42
You take a portrait in natural color. W. S. Kals. il Am Phot 36:8-11 Ag '42

Printing processes

Blue toning de luxe. A. W. Lohnes. Am Phot 36:38-9 Je '42
Carbro prints in hot weather. C. E. Jones. il Am Phot 36:16-17 Ag '42
Control of photographic printing by measured characteristics of the negative. L. A. Jones and C. N. Nelson. il diags Opt Soc Am J 32:558-619 O '42
Finishing and displaying matte prints. F. Lee. il Photo Tech 3:27-9 N '41
Learn imbibition printing the easy way. A. B. Walker, jr. Am Phot 36:20-2 Ja '42
Mediobrome process. F. I. Jordan. il Am Phot 36:12-13 O '42
New projection control. W. Mortensen. 3d ed rev & enl 123p $2.75 Camera craft pub. co, 425 Bush st, San Francisco '42
Pattern in the sky; print from a solarized positive. R. W. Luebke. il Am Phot 36:32 N '42
Posterizing photographs; variation of the Persson process. R. W. Wade. il Am Phot 36:8-11 N '42
Print lacquering. D. D. Nibbelink. diags Photo Tech 3:34-6 D '41
Quantity color printing. H. C. Colton. il diags Photo Tech 3:20-3 N '41
Simple technique for making your own bromoil ink. H. Kreuder. il Am Phot 36:20-1 Mr '42

PHOTOGRAPHY—Printing processes—*Cont.*

Texture screens; their use and misuse. D. D. Nibbelink. il Am Phot 36:12-15 Mr '42

Transmission of photographic layers in the ultraviolet. M. H. Sweet. bibliog Opt Soc Am J 32:324-5 Je '42

Trick in projection printing. T. Muir. il Photo Tech 3:28-9 D '41

Reciprocity law

Photographic reciprocity-law failure and the ionic conductivity of the silver halides. J. H. Webb. bibliog Opt Soc Am J 32:299-303 My '42

Retouching

Applying opaque. G. T. Loster. Photo Tech 3:49 N '41

Efficient retouching desk. C. C. Hay. il diags Am Phot 36:38-9 My '42

Magic of photoretouching by means of air brush. J. F. Nesbitt. il diag Comp Air M 47:6739-40 My '42

Reversal process

Novel direct reversal method; abstract. F. H. Smith. Am Phot 36:44-5 Mr '42

Scientific applications

Apparatus for particle size analysis. il diags Engineering 154:141-2, 181-2, 221-3 Ag 21, S 4, 18 '42

Auxiliary circuit for cathode-ray photography. H. C. Roberts. diag Electronics 15:59-60+ S '42

Cloud-chamber photographs at 4310 meters altitude. W. H. Bostick. bibliog il diag Phys R 61:557-64 My 1 '42

Comparison between a Geiger-Mueller counter, a secondary electron multiplier tube, and photographic film for detecting weak X-rays. A. Eisenstein and N. S. Gingrich. bibliog R Sci Instr 12:582-6 D '41

Distribution of velocity within a nest of tubes. R. P. Wallis. il diags Engineering 152:361-3 N 7 '41

Freezing myriapods for photographing. M. W. Johnson and J. H. Starling. Science 96:324 O 2 '42

Infra-red for everyone. H. W. Greenwood. 94p $5 Chemical pub. co. '41

Interference phenomena with a moving medium. H. E. Ives and G. R. Stilwell. il diags Opt Soc Am J 31:14-24; 32:25-31 Ja '41, Ja '42

Lip vibrations in a cornet mouthpiece. D. W. Martin. il diags Acoustical Soc Am J 13:305-8 Ja '42

Miniature camera; photography as a scientific instrument. H. C. McKay. Am Phot 36:36-40 O '42

Recorder measures lightning current; photographic surge-current recorder. G. D. McCann. il diag Elec W 117:1374 Ap 18 '42

Turbulent spreading of a water jet. A. M. Binnie. il Engineering 153:503-4 Je 26 '42

See also
Photomicrography

Sensitometry

Effect of temperature upon the spectral sensitivity of photographic emulsions. C. H. Evans. bibliog Opt Soc Am J 32:214-18 Ap '42

Evaluation of photographic speed from sensitometric data. C. Tuttle. Opt Soc Am J 31:709-12 N '41

Intensity-scale sensitometer that works at intensity-time levels used in practical photography. W. Bornemann and C. Tuttle. il diags Opt Soc Am J 32:224-9 Ap '42

Photographic action of electrons in the range between 40 and 212 kilvolts. R. F. Baker, E. G. Ramberg and J. Hillier. bibliog il diags J Ap Phys 13:450-6 Jl '42

Relative sensitivities of television pickup tubes, photographic film, and the human eye. A. Rose. bibliog Inst Radio Eng Proc 30:293-300 Je '42

Standards

American standard dimensions for film pack tabs and films, etc. diags Opt Soc Am J 32:56-8 Ja '42

Army and navy will use new standard computer for picture exposures. E. M. Russell. il Ind Stand 13:171-2 Je '42

Performance requirements for photographic enlargers; proposed standards. O. W. Richards. Ind Stand 13:81-3 Ap '42

Studios and darkrooms

Miniature camera; common sense and science in the darkroom. H. C. McKay. Am Phot 36:30-3 F '42

Study and teaching

Learn photography; naval school. H. C. McKay. Am Phot 36:46-7 N '42

Photography in the universities; excerpts of letter from J. C. Duncan; comment by J. S. Friedman. Am Phot 36:38-41 Ap '42

Yearbooks

American annual of photography, 1943. F. R. Fraprie and F. I. Jordan, eds. v57 240p $2.25; pa $1.50 Am. photographic pub. co, 353 Newbury st, Boston '42

Modern photography; the Studio annual of camera art, 1941-1942. C. G. Holme, ed. 120p $3.50; pa $2.50 Studio publications, New York '41

Modern photography; the Studio annual of camera art, 1942-1943. C. G. Holme, ed. 119p $3.50; pa $2.50 Studio publications, 381 4th av, New York '42

Photograms of the year, 1942. F. J. Mortimer, ed. 16p, 12p, 64pls $3.50; pa $2.50 Am. photographic pub. co, 353 Newbury st, Boston '42

U.S. camera, 1942. T. J. Maloney, ed. 252p $3.85 Duell, Sloan & Pearce, New York '41

PHOTOGRAPHY, Aerial

Adding third dimension to aerial photos. V. V. Colby. il diags Eng N 128:426-8 Mr 12 '42

Aerophotography and aerosurveying. J. W. Bagley. 324p bibliog(p317) $3.50 McGraw-Hill '41

Characteristics of wide-angle airplane-camera lenses. F. E. Washer. diags J Research Nat-Bur Stand 29:233-46 S '42

Enemy aircraft photographic equipment. F. Postlethwaite. il diag Engineering 153:441-3 Je 5 '42

Lenses for aerial photography. R. Kingslake. bibliog diags Opt Soc Am J 32:129-34 Mr '42

Military geology from the air; interpretation and mapping of geological information of military value revealed on aerial photographs. J. L. Rich. Science 95:543-5 My 29 '42

Military uses of photography from the air. W. Clark and R. R. Arnold. il Am Phot 36:28-32 S '42

Use of aerial photographs in war-time soils engineering. D. J. Belcher. il Roads & Sts 85:35-7 Jl '42

See also
Mapping, Aerial

PHOTOGRAPHY, Amateur

Beginner's course in photography. V. McGarrett. il Am Phot 36:38-40 Ag '42

Cameras in wartime. V. McGarrett. Am Phot 36:47-8 Je '42

Elementary photography for club and home use. C. B. Neblette, F. W. Brehm and E. L. Priest. 2d rev ed 289p bibliog(p284-5) $1 Macmillan '42

Miniature camera. H. C. McKay. Published in monthly numbers of American photography

Photographic showmanship. S. Sameth. Am Phot 36:16-17 Je '42

Three years of trial and error. M. H. Little. Am Phot 36:36-7 Mr '42

PHOTOGRAPHY, Architectural

Record shots of the building trade. H. H. Bell. il Am Phot 36:14-15 Ag '42

PHOTOGRAPHY, Artistic

Exaggerate; using filters to obtain contrast. D. W. Pease. il Am Phot 36:10-12 F '42

Experiments in the study of design. W. Ramsey. il Am Phot 36:14-15 N '42

New projection control. W. Mortensen. 3d ed rev & enl 123p $2.75 Camera craft pub. co, San Francisco '42

PHOTOGRAPHY, Artistic—*Continued*

Photography is an art. D. G. Haring. Am Phot 36:34-5 Ja '42

Psychology of pictorial composition. M. R. De Serio. il Am Phot 36:36-7 My '42

Securing detail in both highlights and shadows; simplification of the Persson and the Romer methods. P. DeWoskin. il Am Phot 36:14-15 Je '42

PHOTOGRAPHY, Color. See Color photography

PHOTOGRAPHY, Commercial

Finishing and displaying matte prints. F. Lee. il Photo Tech 3:27-9 N '41

Persson process in commercial photography. B. Dobro. il Photo Tech 3:10-13 D '41

Pictorial pictures sell! S. Sameth. il Am Phot 36:18-19 O '42

See also

Advertisements, Pictorial—Photographs

PHOTOGRAPHY, Flashlight

Amperage sensitivity of magnetic synchronizers. L. S. Fox. Photo Tech 3:40-1 D '41

Blackout flash photography. J. Deschin. il Am Phot 36:12-14 Jl '42

Flash in modern photography. W. Mortensen. 208p $4 Camera craft co, 425 Bush st, San Francisco '41

Flashlight photography. V. McGarrett. Am Phot 36:40-2+ My '42

Lighting with flash. H. Schwartz. il Am Phot 36:8-9 F '42

Testing shutter speeds and flash synchronization. J. A. Bledsoe. il diags Am Phot 36:36-8 Ja '42

PHOTOGRAPHY, Infrared

Blackout flash photography. J. Deschin. il Am Phot 36:12-14 Jl '42

Infra-red for everyone. H. W. Greenwood. 94p $5 Chemical pub. co. '41

Infra-red photography of fusion welds. W. T. Tiffin. il Welding J 21:sup1-4 Ja '42

Infra-red rays and their application to problems of the textile colorist. J. Grant. bibliog diag Textile Col 64:213-15 My '42

New blackout paints shield plants from infrared photography. Gas Age 89:16 Ja 29 '42

PHOTOGRAPHY, Journalistic

Down in front! photographing football games. R. M. Beer. il Am Phot 36:24-6 S '42

It's our turn to speak. D. Featherstonhaugh. Am Phot 36:41 O '42

Tricks of the trade; how newspaper pictures are made. D. Featherstonhaugh. Am Phot 36:13 F '42

PHOTOGRAPHY, Legal

Camera catches the criminal; scientific laboratory of the Bureau of criminal investigation, New York State police. D. Featherstonhaugh. il Am Phot 36:8-11 Je '42

Miniature camera; how the amateur may aid the police. H. C. McKay. Am Phot 36:44-6 My '42

Photographic evidence; preparation and presentation. C. C. Scott. 922p $15 Vernon law book co, Kansas City, Mo. '42

20 years behind the bar. M. W. Masen. Am Phot 36:24-5 Ja; 15-16 Jl '42

PHOTOGRAPHY, Military

Learn photography; naval school. H. C. McKay. Am Phot 36:46-7 N '42

Military uses of photography from the air. W. Clark and R. R. Arnold. il Am Phot 36:28-32 S '42

PHOTOGRAPHY, Stereoscopic

Adding third dimension to aerial photos. V. V. Colby. il diags Eng N 128:426-8 Mr 12 '42

Interest in stereo. H. C. McKay. Am Phot 36:48, 50-4 S '42

Shepherd grain size fracture standards; stereoscope photographs by G. K. Manning. Metal Prog 42:227 Ag '42

Some thoughts about stereo. H. C. McKay. Am Phot 36:45-8 Ja; 46-7 My '42

Stereo equipment. H. C. McKay. Am Phot 36:47-8+ N '42

See also

Slide films, Stereoscopic

PHOTOGRAPHY, Trick

Crazy camera, secrets of photomontage. C. A. Bromley. 99p 6s Focal press, London '41

PHOTOGRAPHY in industry

Home made photo identification system; Columbia steel tank co. il Iron Age 149:53 Mr 19 '42; Steel 110:96 My 18 '42

Photographic identification. J. C. Liccion. il Am Phot 36:30-3 Jl '42

Photographing workers in war plants. R. S. Robinson. il Ind Marketing 27:32-3+ Mr '42

Power station. J. Munroe. Am Phot 36:16 Ja '42

Records by camera; traffic, merchandising, shipping, factory service, inspection, testing, research departments. W. J. Brooking. il Factory Management 100:97-8+ Jl '42

10,000 word pictures; General electric company's photographic requirements. I. S. Meekly. il Photo Tech 3:40-2 N '41

Tiny but important; Miniature Precision pivot bearings. il Am Phot 36:21 Je '42

See also

Advertisements, Pictorial—Photographs

Moving pictures in industry

Photography—Industrial applications

Slide films

PHOTOGRAPHY of animals

Chimp. N. Morris. il Photo Tech 3:7 D '41

I married adventure; the lives and adventures of Martin and Osa Johnson. O. Johnson. 376p $1.49 Halcyon house, Garden City, N.Y. '42

Rained out; High-key dog. J. F. Bennett; F. I. Jordan. il Am Phot 36:30-1 N '42

PHOTOGRAPHY of bird nests

Nature and wild life; how and where to search for nests of various species of birds. L. W. Brownell. il Am Phot. 36:32-5 My '42

PHOTOGRAPHY of buildings. See Photography, Architectural

PHOTOGRAPHY of children

Children love Mickey; dog aids in posing children for photographs. F. Kutnewsky. il Am Phot 36:18-19 Mr '42

PHOTOGRAPHY of dancing

Stroboscopic multiflash; photographing dancers in action; abstract. G. Mili. il Sci Am 166:152 Mr '42

PHOTOGRAPHY of documents

Decipherment of charred documents by use of chloral hydrate and photography; abstract. W. D. Taylor and H. J. Walls. Sci Am 165:340-1 D '41

PHOTOGRAPHY of fishes

Photographing fish. F. L. Rogers. il Am Phot 36:22-3 Ap '42

PHOTOGRAPHY of insects

Entomological photography. L. W. Brownell. il Am Phot 36:42-5 S '42

Nature and wild life. L. W. Brownell. il Am Phot 36:43-4+ Ja; 38-9+ Mr '42

PHOTOGRAPHY of jewelry

Infinite variety; photograph of string of pearls. M. Duitz. il Am Phot 36:16 Mr '42

PHOTOGRAPHY of lightning

Phenomena of lightning. K. B. McEachron. il diags W Soc E J 47:43-53 Ap '42

PHOTOGRAPHY of machinery

Beauty in industry. P. W. Pensinger. il Am Phot 36:20-1 Ag '42

Keep 'em clean! photographing pistons. C. E. Compton. il Am Phot 36:20 Ap '42

PHOTOGRAPHY of metals

Arranging reflected light for metalware. M. Duitz. il diags Photo Tech 3:37-9 N '41

Infra-red photography of fusion welds. W. T. Tiffin. il Welding J 21:sup1-4 Ja '42

PHOTOGRAPHY of plants

Botanical photography. L. W. Brownell. il Am Phot 36:42-4+ Jl '42

Vertical camera and elevator. L. P. Flory. il Am Phot 36:18-20 Jl '42

PHOTOGRAPHY of projectiles

Taking photographs of bullets in action. Mach 48:128 Je '42

PHOTO-GRID process

Determination of strain distribution by the photo-grid process; Lockheed aircraft corporation. G. A. Brewer and R. B. Glassco. il J Aeronautical Sci 9:1-7 N '41; Discussion. bibliog il 9:180, 371-2 Mr, Ag '42

Photo-grid printing; technique for measuring deformations in metal. K. Cornell. il Am Phot 36:16-17 N '42

PHOTOLITHOGRAPHY

Photo-lithographic decalcomania now replaces hand-lithography and assures faithful reproduction of the artist's original design. il Cer Ind 38:32-3 F '42; Same cond. Sci Am 166:194-5 Ap '42

Practical photo-lithography. C. M. Willy. 3d ed 307p $4 Am. photographic pub. co, Boston '40

See also

Printing, Offset

PHOTOMECHANICAL processes

See also

Photoengraving

PHOTOMETERS

Brightness and brightness meters. A. H. Taylor. bibliog il Illum Eng 37:19-30 Ja '42

Hilger X-ray microphotometer. il R Sci Instr 13:84-5 F '42

How to check lighting. il Factory Management 100:114-15 Mr '42

Iodobismuthite determination of bismuth in biological samples; application of neutral wedge photometer. C. J. W. Wiegand, G. H. Lann and F. V. Kalich. bibliog Ind & Eng Chem 13:912-15 D 15 '41

Low brightness meter. A. H. Taylor. il Opt Soc Am J 31:738-9 D '41

New microphotometer. il diag J Ap Phys 13: 424-5 Jl '42

Recording microphotometer announced by Leeds and Northrup company. il R Sci Instr 13:38-9 Ja '42

Simple side-lamp photometer. F. M. Hale. diags Light & Lighting 34:174, 176 D '41

Simplified photometer for determining nitrogen dioxide concentrations. L. Harris and B. M. Siegel. bibliog diags Ind & Eng Chem Anal ed 14:258-60 Mr 15 '42

See also

Densitometers
Reflectometers
Spectrophotometers

PHOTOMETERS, Photoelectric

Brightness of paper; TAPPI suggested method T 452 sm-41. Paper Tr J 113:39-42 D 25 '41

Daylight illumination on interiors fenestrated with glass blocks. G. M. Rapp and A. H. Baker. il diags Illum Eng 36:1129-48; Discussion. 1148-56 D '41

Determination of choline; a photometric modification of Beattie's method. M. H. Thornton and F. K. Broome. bibliog Ind & Eng Chem Anal ed 14:39-41 Ja 15 '42

Fisher electrophotometer. il R Sci Instr 12: 616-17 D '41

Illumination measurements with light-sensitive cells. C. L. Dows. il diag Illum Eng 37:103-12 F '42

Light meter. C. L. Dows. il diag Gen Elec R 45:505-9 S '42

Photoelectric amplifier of Heidelberg and Rense. R. G. Wilson. diag R Sci Instr 13:300 Jl '42

Photoelectric photometer for rapid grading of naval stores products. R. H. Osborn. il diag Ind & Eng Chem Anal ed 14:572-5 Jl 15 '42

Photometer for fluorescent fixtures. H. W. Wrigley. il Elec W 116:2069 D 27 '41

Some photometric instruments used in X-ray diffraction and spectrographic methods of analysis. J. W. Ballard, H. I. Oshry and H. H. Schrenk. pls U S Bur Mines Rep of Invest 3638:2-5 '42

PHOTOMETRY

Lighting engineers study sky-glow. il Elec W 118:930-1 S 19 '42

Method of recording low intensity flashes of light; intensity changes in light given off by luminous animals. C. Butt and R. S. Alexander. bibliog il diag R Sci Instr 13: 151-3 Ap '42; Abstract. Electronics 15:108+ O '42

Model method of photographic and photometric determination of heat radiation between surfaces and through absorbing gases. M. Jakob and G. A. Hawkins. il diags J Ap Phys 13:246-54 Ap '42

Photometry in spectrochemical analysis. W. C. Pierce and N. H. Nachtrieb. bibliog diag Ind & Eng Chem Anal ed 13:774-81 N 15 '41

Physical basis of standardization of brightness measurement. J. A. Van den Akker, P. Nolan and W. A. Wink. bibliog diag Paper Tr J 114:34-40 Ja 29 '42

Practical photometry of fluorescent lamps and reflectors. G. R. Baumgartner. diags Illum Eng 36:1340-53 D '41

Reflection-transmission relationships in sheet materials. H. F. Launer. bibliog J Research Nat Bur Stand 27:429-42 N '41

System of photometric concepts. P. Moon. bibliog Opt Soc Am J 32:348-62 Je '42

True-area photometric distribution curve. F. Benford. Opt Soc Am J 32:307-8 My '42

See also

Color
Color measurement
Electric lighting
Light
Lighting—Tables, calculations, etc.
Measuring instruments, Optical
Optical instruments
Optics
Photometers
Sight
Spectrophotometry
Street lighting

PHOTOMETRY, Astronomical

Photoelectric star counter. S. W. McCuskey and R. M. Scott. il diags R Sci Instr 12: 597-601 D '41

PHOTOMICROGRAPHY

Adherence of thick silver plate on steel. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 20):223-30 O '42

Determination of exposure for kodachrome photomicrography. T. H. Morton. Photo Tech 3:50-1 D '41

Doubling the depth of focus in photomicrography. J. G. Pratt. il Am Phot 36: 18 Ap '42

Fluorescent microscope lamp. L. H. Berkelhamer. il Ind & Eng Chem Anal ed 14:833-4 O 15 '42

Micro and macro structures of gray iron and meehanite. C. R. Austin and M. M. Lipnick. il Iron Age 149:72-4 My 7; 58-61+ My 14 '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

Photomicrographs with an enlarger. G. Zuloaga. il Photo Tech 3:53 N '41

Photomicrography. R. M. Allen. 365p $5.50 Van Nostrand '41

Photomicroscopy of salt in petroleum. L. F. Christianson and J. W. Horne. bibliog il U S Bur Mines Tech Pa 638:1-56; pa 25c Supt. of doc. '42; Abstract. Nat Pet N 34 pt 2:R333-6 S 30 '42

See also

Microfilms
Microscope and microscopy
Photography—Scientific applications

PHOTOMURALS. See Photographic murals

PHOTONS

Transition curves for electron and photon produced showers. N. Nereson. bibliog diag Phys R 61:111-15 F 1 '42

PHOTO-pen recorder. See Recording instruments, Photoelectric

PHOTOPHORESIS

Photophoresis and its interpretation by electric and magnetic ions. F. Ehrenhaft. Franklin Inst J 233:235-56 bibliog(p254-6) Mr '42

PHOTOSTATS

Photostat-tracings save drafting room time; Lockheed aircraft corporation. L. C. Jones. il diags Product Eng 13:653-5 N '42

PHOTOSYNTHESIS

Photosynthesis in flashing light. S. Weller and J. Franck. bibliog J Phys Chem 45: 1359-73 D '41

Some exchange experiments with radioactive tracers. S. Ruben and others. bibliog Am Chem Soc J 64:2297-8 O '42

Some experiments on chlorophyll and photosynthesis using radioactive tracers. S. Ruben, A. W. Frenkel and M. D. Kamen. bibliog J Phys Chem 46:710-14 Je '42

See also

Chlorophyl
Photochemistry

PHOTOTELEGRAPHY

R.C.A. opens radiophoto circuit to bring pictures from Australia. Franklin Inst J 233: 612 Je '42

See also

Radio facsimile
Television

PHOTOTHERAPY

Electrotherapy and light therapy, with the essentials of hydrotherapy and mechanotherapy. R. Kovács. 4th ed rev 735p $8 Lea & Febiger, Philadelphia '42

See also

Radiotherapy
Ultraviolet rays—Therapeutic use

PHOTOTROPY

Phototropic dyes. E. I. Stearns. Opt Soc Am J 32:282-4 My '42

PHTHALALDEHYDE

New synthesis of phthalaldehydes. T. C. Chaudhuri. Am Chem Soc J 64:315 F '42

Preparation of a solution of *o*-phthalaldehyde for use as a glycine reagent. W. M. Sandstrom and H. A. Lillevik. bibliog Ind & Eng Chem Anal ed 13:781 N 15 '41

PHTHALATES

Phthalate plasticizers under total allocation. Oil Paint & Drug Rep 142:3+ Ag 10 '42

Polarographic study of *o*-phthalic acid and phthalates. N. H. Furman and C. E. Bricker. bibliog Am Chem Soc J 64:660-8 Mr '42

PHTHALIC acid

Polarographic study of *o*-phthalic acid and phthalates. N. H. Furman and C. E. Bricker. bibliog Am Chem Soc J 64:660-8 Mr '42

PHTHALIC anhydride

Industrial uses of chemicals. Oil Paint & Drug Rep 141:58 F 9 '42

National defense and dyestuffs. H. F. Herrmann. Rayon 23:33-5 Ja '42

Synthesis of 4,10-ace-1,2-benzanthracene utilizing Δ^4-tetrahydrophthalic anhydride. L. F. Fieser and F. C. Novello. bibliog Am Chem Soc J 64:802-9 Ap '42

PHTHALONITRILE

Dithio-β-*iso*indigo (dithiodiphthalimidine) from phthalonitrile; a condensation reaction of *o*-dinitriles. H. D. K. Drew and D. B. Kelly. Chem Soc J p625-30 O '41

Dithio-β-*iso*indigo; further members of the series. H. D. K. Drew and D. B. Kelly. Chem Soc J p637-41 O '41

Dithio-β-*iso*indigo; mechanism of its formation from phthalonitrile; derivatives. H. D. K. Drew and D. B. Kelly. Chem Soc J p630-7 O '41

PHTHIOCOL

Preparation and properties of some phthiocol inner complexes. B. P. Geyer and G. M. Smith. bibliog Am Chem Soc J 63:3071-5 N '41

PHTHIOIC acid

Long-chain acids containing a quaternary carbon atom. A. J. Birch and R. Robinson. Chem Soc J p488-90 Ag '42

PHYSICAL chemistry. See Chemistry, Physical and theoretical

PHYSICAL constants

Handbook of physical constants. F. Birch, J. F. Schairer and H. C. Spicer, eds. Geol Soc Special Pa no 36:1-325 '42

New table of values of the general physical constants (as of August, 1941). R. T. Birge. Rs Mod Phys 13:233-9 O '41

Physical constants of low boiling-point hydrocarbons. R. Matteson and W. S. Hanna. Oil & Gas J 41:33-7 bibliog(121 references, p36-7) My 21 '42

Physical constants of methyl isopropenyl ketone. J. H. Brant. bibliog Am Chem Soc J 64:2224-5 S '42

Precision determination of *h/e* by means of the short wave-length limit of the continuous X-ray spectrum at 20 kv. W. K. H. Panofsky, A. E. S. Green and J. W. M. DuMond. bibliog diags Phys R 62:214-28 S 1 '42

Some physical constants of N-octyl-, N-dodecyl- and N-cetyl-piperidine. F. H. Stross and R. J. Evans. Am Chem Soc J 64:2511 O '42

Specific dispersion of pure hydrocarbons. R. E. Thorpe and R. G. Larsen. bibliog(72 references) Ind & Eng Chem 34:853-63 Jl '42

See also

Boiling points
Dielectric constants
Fine structure constant
Freezing points
Gravitation
Melting points
Refractive index

PHYSICAL education and training

Analysis of human motion; a textbook in kinesiology. M. G. Scott. 388p $3.90 Crofts '42

Appreciation of physical education. H. A. Pendergast. 165p pa $2.50 Prentice-Hall '41

Curriculum problems in health and physical education. V. S. Blanchard. 128p $1.50 A. S. Barnes & co, 67 W. 44th st, New York '42

Enriching the physical education service program in colleges and universities. H. J. McCormick. 134p bibliog(p132-4) $1.85 Teachers college '42

Principles of physical education. J. F. Williams. 4th ed 393p $3 Saunders '42

Tests and measurements in health and physical education. C. H. McCloy. 2d ed 412p bibliog(p326-45) $3 Crofts '42

History

History of physical education in the United States. N. Schwendener. 237p $2 A. S. Barnes & co, New York '42

PHYSICAL examinations

Chest X-rays in the physical examination. R. N. Downs. il Nat Safety N 46:24-5 S '42

Conserving man power by effective health education. J. J. Brandabur. Edison Elec Inst Bul 10:59-62 F '42

Health examinations of executives; Dennison manufacturing company. H. G. Murray. Ind Med 11:435-6 S '42

Medical decisions and employee relations. H. W. Anderson. Ind Med 11:275-7 Je '42

Medical service for employees; East River savings bank. G. O. Nodyne. Bankers M 144:251-3 Mr '42

Periodic health examinations; important findings among garment workers. L. Price. Ind Med 11:369-73 Ag '42

Periodic physical examinations in terms of results. R. M. Graham. bibliog Ind Med 11:112-15 Mr '42

Physical examinations in industry. E. V. Goltz. Ind Med 11:180-1 Ap '42

Picking the best men; Pontiac motor division. il Am Business 11:18-19 D '41

Placement of the worker. T. L. Hazlett. Ind Med 10:535-6 D '41

Processing techniques in physical examination. F. B. Wishard. Ind Med 11:253-6 Je '42

Radiography and TB; examination of men and women before entry into armed forces. Economist 142:642-3 My 9 '42

Substandard worker; physical examination and placement. P. J. Ochsner. Ind Med 11: 283-5 Je '42

PHYSICAL examinations—*Continued*

Warning against employing the unfit; abstract. I. S. Cutter. Ry Age 113:728+ N 7 '42

See also

Eye—Examination

Insurance, Life—Medical examinations

PHYSICAL geography

Elements of geography, physical and cultural. V. C. Finch and G. T. Trewartha. 2d ed 823p $4 McGraw-Hill '42

Geomorphology of the Ventura region, California. W. C. Putnam. fold map maps Geol Soc Bul 53:691-754, pl 1-5 bibliog(p752-4) My '42

Geomorphology; systematic and regional. O. D. von Engeln. 655p bibliog(p619-27) $4.50 Macmillan '42

Physical elements of geography. V. C. Finch and G. T. Trewartha. 2d ed 641p $3.50 McGraw-Hill '42

Physical geography. A. L. Seeman. 439p $3.50 Prentice-Hall '42

See also

Carolina bays
Coast changes
Earth
Earth movements
Earthquakes
Erosion
Geology
Geophysics
Geysers
Lakes
Mountains
Ocean
Rivers
Volcanoes
Water, Underground

PHYSICAL instruments

Physical instruments for the biologist. D. W. Bronk. R Sci Instr 13:1-2 Ja '42

Physical tools in chemistry. D. H. Killeffer. il diag R Sci Instr 13:49-53 F '42

See also

Balances
Chemical apparatus
Electric apparatus and appliances
Electric instruments
Magnetic instruments
Measuring instruments
Optical instruments
Pressure gages
Radio instruments
Scientific apparatus and instruments
Sound—Apparatus
Spectrometers
Torsion balance

also names of instruments, e.g. Micrometers; Oscillographs

PHYSICAL measurements

Precision determination of h/e by means of the short wave-length limit of the continuous X-ray spectrum at 20 kv. W. K. H. Panofsky, A. E. S. Green and J. W. M. DuMond. bibliog diags Phys R 62:214-28 S 1 '42

See also

Dimensional analysis
Doppler effect
Electric measurements
Errors, Theory of
Magnetic measurements
Pressure measurement
Radio measurements
Temperature—Measurement
Vibration—Measurement
Viscosity—Measurement

PHYSICAL research

Low temperature physics in the USSR. C. T. Lane. Science 95:84-6 Ja 23 '42; Same cond. Mech Eng 64:223-4 Mr '42

Recent advances in physics. T. H. Osgood and R. B. Bowersox. bibliog il Chem & Eng N 20:176-8 F 10 '42

PHYSICIANS

Additions to the medical profession, from medical licensure statistics. Science 96:8-9 Jl 3 '42

Bond between us; the third component. F. Loomis. 267p $2.50 Knopf '42

Calling-up doctors. Economist 143:357-8 S 19 '42

Emergency base hospitals; affiliated staff units to serve when needed. Science 96:330-1 O 9 '42

Industrial health as related to licensure. C. O. Sappington. Ind Med 11:292-4 Je '42

Location and movement of physicians, 1923 and 1938; general observations. J. W. Mountin, E. H. Pennell and V. Nicolay. bibliog map Pub Health Rep 57:1363-75 S 11 '42

Mr McNutt and the doctors; needs of army and civilians. Science 95:626 Je 19 '42

Physicians for the government services. Science 95:347 Ap 3 '42

Shortage of physicians in the United States. Science 94:555 D 12 '41

Time and the physician; the autobiography of Lewellys F. Barker. 350p $3.50 Putnam '42

What price glory; death age of physicians according to degree of prominence. C. A. Mills. Science 96:380-1 O 23 '42

See also

Medical service

also names of physicians, e.g.

Geier, Otto P.

Weiss, Soma

Bibliography

Recent medical biographies and autobiographies. C. D. Leake. Science 96:297-300 S 25 '42

Directories

Directory of medical specialists certified by American boards, 1942. 2495p $7 Columbia univ. press '42

PHYSICIANS as witnesses

See also

Medical jurisprudence

PHYSICIANS' offices

Doctors building, Beaumont, Texas, designed to serve three doctors. il diag plan Arch Rec 90:50-1 D '41

PHYSICISTS

Challenge to physicists. P. W. Bridgman. J Ap Phys 13:209 Ap '42

First report of the war policy committee of the American institute of physics. Science 95:508-9 My 15 '42; R Sci Instr 13:245-7 Je '42

Manpower in physics, a national emergency. J Ap Phys 13:471 Ag '42

Master science, in war, in peace; physicists and the war. A. G. Ingalls. Sci Am 167:3 Jl '42

Mobilization of physicists. H. A. Barton. R Sci Instr 12:525-6 N '41

Physicist in the factory. Engineering 154:332 O 23 '42

Physicists after the war. Engineering 153:272-3 Ap 3 '42

Physics and selective service. H. A. Barton. R Sci Instr 13:47-8 F '42

Physics, the profession. H. A. Barton. J Ap Phys 13:71-3 F '42

Portraits of famous physicists, with biographical accounts. H. Crew. in portfolio pa $3.75 Scripta mathematica, New York '42

Professional manpower for the war. H. A. Barton. J Ap Phys 13:415-17 Jl '42

Scarcity of physicists. Science 96:sup8 S 25 '42

Second report of the war policy committee. Science 96:89-90 Jl 24 '42

Selective service and the physicist. J Ap Phys 13:1-2 Ja '42

We need more physicists. E. U. Condon. il Sci Am 166:224-6 My '42

See also American institute of physics

PHYSICS

Annual Washington conference on theoretical physics, 8th, April 23-25. Science 95:579-81 Je 5 '42

Applied science. C. W. Banks. 212p $1.75 Wiley '42

As boundaries break; how biology draws upon physics and chemistry for the solution of new borderline problems. F. O. Schmitt. il Tech R 44:263-5+ Ap '42

College physics. A. W. Duff and M. Masius. 588p $3.80 Longmans '41

College physics. W. T. McNiff. 3d ed 657p bibliog(p633-9) $4 Fordham univ. press, New York '42

PHYSICS—*Continued*

General physics. W. L. Whiteley. 590p 7s 6d Univ. tutorial press, London '40

How things work; science for young Americans. G. R. Harrison. 301p $2.75 Morrow '41

Intermediate practical physics. T. M. Yarwood. 307p 6s Macmillan '40

Introduction to modern physics. F. K. Richtmyer and E. H. Kennard. 3d ed 723p $5 McGraw-Hill '42

Introduction to physics. H. Howe. 559p $3.75 McGraw-Hill '42

Nuclear physics. E. Fermi and others. 68p pa 75c Univ. of Pennsylvania press, Philadelphia '41

Particles of modern physics. J. D. Stranathan. 571p $4 Blakiston '42

Physics. E. Hausmann and E. P. Slack. U.S. naval academy ed rev 954p $4 Van Nostrand '41

Physics. F. L. Robeson. 819p $4.50 Macmillan '42

Physics. W. F. G. Swann. 274p $2.25 Wiley '41

Physics for engineers. J. A. Fleming. 232p $3 Chemical pub. co. '42

Physics in 1941. T. H. Osgood. bibliog il J Ap Phys 13:3-21 Ja '42

Physics in pre-Nazi [and Nazi] Germany. Science 94:488-9 N 21 '41; Reply. W. M. Venable. 95:70 Ja 16 '42

Physics of a transmission line. W. M. Thornton. bibliog Inst E E J 88 pt 2:561-7 D '41

Proceedings of the American physical society; abstracts of papers at regional meetings and at Baltimore meeting, May 1-2. Phys R 61:724-40 Je 1 '42

Proceedings of the American physical society meeting at State College, Pennsylvania, June 26-27, and at Berkeley, Calif. July 11, 1942; abstracts of papers. Phys R 62:294-306 S 1 '42

Proceedings of the American physical society, Chicago meeting, Nov. 21-22; abstracts of papers. Phys R 61:101-8 Ja 1 '42

Proceedings of the American physical society, Michigan meeting, Detroit and Ann Arbor, Feb. 20-21, 1942; abstracts of papers. Phys R 61:541-7 Ap 1 '42

Proceedings of the American physical society, Princeton meeting, Dec. 29-31, 1941; abstracts of papers. Phys R 61:385-95 Mr 1 '42

Proceedings of the American physical society, Stanford University meeting, Dec. 19; abstracts of papers. Phys R 61:202-6 F 1 '42

Progress of physics; advances in understanding of atomic structure, light, electrons and the solid and liquid states from 1930-1942. E. F. Burton. il Can Chem & Process Ind 26: 429-31 Jl '42

Progressive problems in physics. F. R. Miller. 5th ed rev 235p $1.40 Heath '42

Recent advances in physics. T. H. Osgood and R. B. Bowersox. bibliog il Chem & Eng N 20:176-8 F 10 '42

See also

Atoms
Chemistry
Chemistry, Physical and theoretical
Compressibility
Cosmic rays
Diffusion
Dynamics
Elasticity
Electricity
Electrons
Evaporation
Expansion (heat)
Fluids
Free energy
Friction
Gases
Geophysics
Hydraulics
Hydrodynamics
Hydromechanics
Ionization, Electrolytic
Ionization, Gaseous
Ions
Light
Liquids
Magnetism
Mathematical physics
Mechanics
Molecules
Optics
Particles
Photoelasticity
Physical instruments
Physical research
Plasticity
Pressure
Quantum theory
Radiation
Radioactivity
Reflection (optics)
Relativity (physics)
Sound
Steam
Strains and stresses
Temperature
Thermodynamics
Thermometers and thermometry
Velocity
Vibration
Viscosity
Wave mechanics
Weights and measures

Bibliography

Book reviews. R Sci Instr 13:162-86 Ap '42

Condensed library guide for the physicist. J. A. Wheeler and M. C. Shields, comps. R Sci Instr 13:197-8 Ap '42

Current literature of physics. R Sci Instr 13:sup1-6 Ja '42 [cont monthly]

Experiments

Experimental physics. D. H. Bellamy. 255p $3.75 Chemical pub. co. '41

Science experiences with ten-cent store equipment. C. J. Lynde. 256p $1.60 International textbook co, Scranton, Pa. '41

History

From Copernicus to Einstein. H. Reichenbach. 123p $2 Alliance book corp, New York '42

Industrial applications

Applied physics in cereal laboratory. C. H. Bailey. Can Chem & Process Ind 26:178 Mr '42

Physics in industry. E. U. Condon. Science 96:172-4 Ag 21 '42

Laboratory manuals

Laboratory manual of experiments in physics. L. R. Ingersoll and M. J. Martin. 5th ed 342p $2.50 McGraw-Hill '42

Philosophy

Methodology of Pierre Duhem. A. Lowinger. 184p bibliog(p173-5) $2.25 Columbia univ. press '41

Study and teaching

Functions of physics courses in the engineering curricula. E. P. Slack. J Eng Educ 32: 361-4 D '41

Identification of ability to apply principles of physics. W. A. Kilgore. 34p $1.60 Teachers college '41

Importance of scientific instruments and apparatus to the teacher of physics. R. M. Sutton. bibliog il diag R Sci Instr 12:573-82 D '41

Physics in the secondary schools. R Sci Instr 13:137-9 Ap '42

Post-war education and training of physicists. H. Lowery. Engineering 154:234-5, 257-8, 266 S 18-O 2 '42

Taking the cream off engineering; teaching of physics. W. B. Pietenpol. J Eng Educ 32:640-4 Ap '42

Trends in physics teaching; some recent texts. J. C. Hubbard. Science 95:409-12 Ap 17 '42

Tables, calculations, etc.

Annual tables of physical constants and numerical data, 1941. $3.30 Am. committee on annual tables, Nat. research council, Princeton, N.J. '42

Handbook of chemistry and physics, a ready-reference book of chemical and physical data. C. D. Hodgman and H. N. Holmes, eds. 25th ed 2503p $3.50 Chemical rubber pub. co, Cleveland '41

PHYSICS, Mathematical. See Mathematical physics

PHYSIOGRAPHY. See Geology; Physical geography

PHYSIOLOGICAL apparatus

Analyzer for one ml of respiratory gas. P. F. Scholander. diags R Sci Instr 13:27-31 Ja '42

Automatic blood pressure recorder. W. E. Gilson. il diags Electronics 15:54-6 My '42

Membrane interferometer manometer. J. M. Tobias. diags R Sci Instr 13:232-3 My '42

Photoelectric membrane manometer. W. E. Gilson. diag Science 95:513-14 My 15 '42

See also

Cardiograph
Kymograph
Noyons diaferometer
Oximeters
Respiratory apparatus

PHYSIOLOGICAL chemistry

Carbon dioxide utilization in animal tissues. E. A. Evans, jr. bibliog Science 96:25-9 Jl 10 '42

Excessive acidity of the nerves may be responsible for a host of serious ailments; abstract. R. Gesell. Science 95:sup 11 Ap 10 '42

Inorganic constitution of bone. S. B. Hendricks and W. L. Hill. diags Science 96: 255-7 S 11 '42

Medical biochemistry. M. R. Everett. 694p bibliog(p655-6) $5.75 Harper '42

Physiology of the amino acids. D. D. Van Slyke. bibliog Science 95:259-63 Mr 13 '42

Significance of choline as a dietary factor. C. H. Best. bibliog Science 94:523-7 D 5 '41

Solubility of carbon disulfide vapor in body fluids and tissues. R. W. McKee. il J Ind Hygiene 23:484-9 D '41

Sterols; sapogenins; the bio-reduction of 4-dehydrotigogenone. R. E. Marker and others. bibliog Am Chem Soc J 64:818-22 Ap '42

Textbook of biochemistry. R. J. Williams. 2d ed 533p $4 Van Nostrand '42

See also

Anesthetics
Barbituric acid
Biological chemistry
Blood—Analysis
Blood—Coagulation
Carbohydrates
Cells
Chemistry, Medical and pharmaceutical
Cholesterol
Enzymes
Glycogenolysis
Hormones
Immunity
Liver extracts
Metabolism
Nerves
Nutrition
Oxygen deficiency
Poisons
Proteins
Urine
Vitamins

PHYSIOLOGICAL optics. See Optics, Physiological

PHYSIOLOGICAL psychology. See Psychology, Physiological

PHYSIOLOGY

Human body. L. Clendening. 3d ed rev & enl 443p $1.79 Garden City pub. co, Garden City, N.Y. '42

Physiology and high altitude flying; with particular reference to air embolism and the effects of acceleration. J. F. Fulton. bibliog Science 95:207-12 F 27 '42; Same cond. Mech Eng 64:386-8 My '42

Seminar on physiological processes involved in wound healing. L. B. Arey. Franklin Inst J 233:506-10 My '42

Surgical physiology. J. Nash. 496p bibliog(p445-70) $6 C. C. Thomas, Springfield, Ill. '42

See also

Blood
Bones
Brain
Cells
Diet
Digestion
Electrophysiology
Exercise
Fatigue
Growth
Hygiene
Metabolism
Muscle
Nervous system
Nutrition
Old age
Physiological chemistry
Respiration
Temperature—Physiological effect
Temperature, Animal and human
Tissues
Ultraviolet rays—Physiological effect

PHYTIC acid

Phytic acid and its destruction in baking. W. J. S. Pringle and T. Moran. bibliog Soc Chem Ind J 61:108-10 Jl '42

PHYTOCHEMISTRY. See Botanical chemistry

PHYTOL

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

PHYTOLACCACEAE

Dyes and saponins from the species of the pokeweed family. C. D. Mell. Textile Col 64:76-7+ F '42

PHYTOPATHOLOGY. See Plants—Diseases

PHYTOSTEROLS

Studies in the sterol group; the oxidation of phytosterols with the Oppenauer reagent. E. R. H. Jones, P. A. Wilkinson and R. H. Kerlogue. Chem Soc J p391-3 Je '42

PIANOS

What makes a good piano? W. B. White. diag Consumers' Research Bul 9:1-3 D '41; 21-4 Ja '42

PICENE

Structures of degradation products of picene. J. W. Cook. Chem Soc J p685-7 O '41

PICKETING

Curbs on pickets. Business Week p60 D 27 '41

Picketing by minority union. Monthly Labor R 54:702 Mr '42

Picketing by rival union against closed shop held legal; the Superior court of Los Angeles county. Monthly Labor R 53:1222 N '41

Prohibition of picketing under Texas anti-trust law; picketing against system of peddling upheld in New York. Monthly Labor R 54:1158 My '42

State prohibition of mass picketing upheld. Monthly Labor R 54:1157 My '42

States rights upheld on picketing issues. Comm & Fin Chr 155:1339 Ap 2 '42

PICKLES

Pickle stocks held for army. Food Ind 14:72 Ag '42

PICKLING (metals)

Automatic spray pickling; combined annealing equipment heat treats, pickles, washes and dries in one continuous operation. il Steel 110:78+ My 25 '42

Ferric sulphate; recent applications to pickling stainless steel. Automobile Eng 32:289-90 Jl '42

Fiber solves pickling tank problem. D. Berg. diag Factory Management 100:110 F '42

Further considerations of hydrogen as a cause of enamel defects. C. A. Zapffe and C. E. Sims. bibliog il Am Cer Soc J 25: 205-15 Ap 1 '42

Heating and agitating pickling tanks; Heil steam-air agitator jets. C. E. Heil. il diags Metal Finishing 40:31 Ja '42

Investigations at Mellon institute 1941-42; steady pursuit of waste pickle liquor utilization. il Chem & Eng N 20:446-7 Ap 10 '42

Mercury cracking test, procedure and control. H. Rosenthal and A. L. Jamieson. il Am Soc T M Proc 41:897-904; Discussion. 927-30 '41

Metal pickling with ferric sulfate. J. O. Percival, C. P. Dyer and M. H. Taylor. bibliog il Ind & Eng Chem 33:1529-35 D '41

New pickling bath agitator jets. diags Iron Age 149:39 Ja 29 '42

Pickling capacity increased by mechanization of materials handling system; Buffalo bolt co. il Steel 110:108+ Ap 13 '42

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42; Abstract. Chem & Met Eng 48:166 N '41

Semicontinuous pickler for cleaning 24-inch strip. il Steel 109:66-7 D 29 '41

Submerged combustion increases pickling output in shipyards. Marine Eng 47:274 O '42

Suggested method for neutralizing waste pickling acid effluents. F. Smith. Chem & Ind 61:68-9 F 7 '42

Sulphuric acid pickling of steel. O. G. Pamely-Evans. il Blast F & Steel Pl 30:224-6 F '42

Treating pickling liquors for removal of toxic metals. G. E. Barnes and M. M. Braidech. diags Eng N 129:496-9 O 8 '42

Utilization of pickle liquor. F. J. Van Antwerpen. il Ind & Eng Chem 34:1138-41 O '42

War products consultation; pickling of 3.5% nickel steel and 1.3% chromium steel. il Metal Prog 41:350-1 Mr '42

Working of high-nickel alloys; pickling solutions and procedures. Am Mach 86:895-6 Ag 20 '42

PICOLINALDEHYDE

Synthesis of the three isomeric *dl*-β-pyridylalanines. C. Niemann, R. N. Lewis and J. T. Hays. bibliog Am Chem Soc J 64: 1678-82 Jl '42

PICRATES

Analysis

Some observations on the oxidation and determination of the molecular weight of polynuclear aromatic compounds. W. P. Campbell, M. D. Soffer and T. R. Steadman. bibliog Am Chem Soc J 64:425-8 F '42

PICRIC acid

Electron-sharing ability of organic radicals; the effect of the radicals on the ionizing power of organic solvents. F. J. Moore and I. B. Johns. Am Chem Soc J 63:3336-8 D '41

PICRYL chloride

Reactions of certain thiazoles and glyoxalines with picryl chloride and 2 : 4-dinitrochlorobenzene. J. McLean and G. D. Muir. Chem Soc J p383-6 Je '42

PICTURE transmission. See Radio facsimile; Television

PICTURES

See also

Advertisements, Pictorial
Drawings
Moving pictures
Photographs
Posters

PIECE work

Weigh to get quick counts; scales determine output of screw machine operators on piece work. R. F. Nortman and W. S. Hansen. il Factory Management 100:65-6 Jl '42

See also

Bonus system
Time study
Wage payment plans
Wages

PIEDMONT fire insurance company

Company analysis. Spectator (Property ed) 7:30-1 F 5 '42

PIERCE, Curtis White, 1880-

President of F.I.A. por East Underw 43:14 Jl 17 '42; Nat Underw 46:1+ Jl 16 '42

PIERCE Butler radiator corporation

Stock all taken. Comm & Fin Chr 155:738-9 F 17 '42

PIERS

Laminated decking speeds pier construction and protects deck concreting in winter. il diags Eng N 128:976-9 Je 18 '42

Pier in time; Scandinavians and Finns build pier in Bethlehem steel company's yards. A. D. Rathbone, 4th. il Sci Am 167:14-15 Jl '42

Proposals for guarding waterfronts against sabotage. C. H. Zearfoss. East Underw 42:64 D 12 '41

Two-pipe pile jetting rig speeds driving on navy pier job. il Eng N 128:200 Ja 29 '42

Wood piles with mortar coating save time and critical materials. il Eng N 129:624-6 N 5 '42

Fires and fire protection

Effectiveness of automatic sprinklers for waterfront protection. A. D. Bosch. Ins Field (Fire ed) 71:10-11 Ap 9 '42

Fire hazards on piers. Marine Eng 47:116 F '42

How Coast guard is helping to prevent port fires. R. R. Waesche. East Underw 43:33 My 29 '42

Laminated decking speeds pier construction; spray protects wood fire stops. il diags Eng N 128:977-8 Je 18 '42

New York pier fire attributed to smoker. Ins Field (Fire ed) 71:11-12 Ja 15 '42

Question of fire protection on New York waterfront arouses sharp divergence in opinions of authorities. D. Porter. Ins Field (Fire ed) 71:13+ Mr 26 '42

PIERS, Concrete

Three-lead driver speeds pier work. il Eng N 129:299 Ag 27 '42

PIERS (foundations)

Construction of smaller buildings; piers and bearing walls; with time-saver standards. W. H. Hayes. Arch Rec 91:78 My '42

Effect of settling pier. O. Ebel. diag Eng N 128:43 Ja 1 '42

See also

Bridges—Foundations and piers

PIEZOELECTRICITY

Brush electronic surface analyzer. diag Electronics 15:54+ Jl '42

Determination of the elastic constants of beta-quartz. E. W. Kammer and J. V. Atanasoff. il diags Phys R 62:395-400 O 1 '42

Instrument for measuring surface roughness; utilizes Rochelle salt piezoelectric crystal, amplifier and oscillograph; Brush surface analyzer. C. K. Gravley. il diags Electronics 15:70-3 N '42

Piezo quartz. A. W. G. Wilson. il Can Chem & Process Ind 26:10-14+ Ja '42

Quartz-crystal accelerometer. R. O. Fehr. il diag Gen Elec R 45:269-72 My '42; Same cond. Electrician 129:172-4 Ag 14 '42

Quartz plate with coupled liquid column as a variable resonator. F. E. Fox and G. D. Rock. diag Inst Radio Eng Proc 30:29-33 Ja '42; Abstract. Electronics 15:100+ Ap '42

Vibration of piezoelectric plates. A. W. Lawson. Phys R 62:71-6 Jl 1 '42

Bibliography

Radio progress during 1941. Inst Radio Eng Proc 30:69-70 F '42

PIEZOMETERS. See Manometers; Pressure measurement

PIG iron

Air conditioning to increase production of silvery pig iron. J. I. Lyle. Heating-Piping 14:232-3 Ap '42

Aqueous iodine method; determination of oxide inclusions in pig iron. E. Taylor-Austin. Iron & Steel Inst J 143:358-66 no 1 '41

Blast furnace for production of silvery iron has novel features. B. H. Booth. il Blast F & Steel Pl 30:662-3 Je '42

Desulphurizing at the blast furnace. G. S. Evans. diags Iron Age 149:45-7 Ap 30 '42

Desulphurizing pig iron; report of German research. il Iron Age 149:45-8 Ap 9 '42

East Texas to become a pig iron producer. G. H. Anderson. il map Min & Met 23:417-19 Ag '42

Foreign solutions for scrap deficiencies. H. Cowes. Iron Age 150:64+ Ag 6 '42

Iron; its use and effect in making basic open-hearth steel. W. C. Buell, jr., J. R. Miller and H. W. Potter. il diag Steel 111:78, 80, 82+ Ag 17 '42; Same cond. Metals & Alloys 16:724+ O '42

Manufacture of silvery pig iron by the Jackson iron and steel company. B. H. Booth. il Blast F & Steel Pl 30:877-80, 885-7+ Ag '42

Metallography of inclusions in cast irons and pig irons. H. Morrogh. diags Iron & Steel Inst J 143:207-53, pl 38-47 bibliog(59 references, p252-3) no 1 '41; Summary. Iron Age 147:26 Ja 9 '41; Discussion. Iron & Steel Inst J 143:254-86, pl 47A-47B no 1 '41

Pig iron deficit rivals dearth of scrap. W. C. Hirsch. Automotive & Aviation Ind 87:52+ Ag 1 '42

Present position of the determination of oxide inclusions in pig iron and cast iron. J. G. Pearce. Iron & Steel Inst J 143:366-70 no 1 '41

Producing ferro-alloys and pig iron in Sweden; abstract. B. Kalling and A. Lindblad. Metals & Alloys 16:482+ S '42

Producing pig iron for the trade; E. & G. Brooke iron company. W. H. O'Connell. il Comp Air M 47:6815-18 Ag '42

Rapid metallurgy in war production; vs. new equipment. G. S. Evans. il Iron Age 149:31-5 Ap 23 '42

Recent developments in desulphurizing cast iron. G. S. Evans. il Steel 110:82, 84, 88+ My 25 '42

Refining pig iron in the electric furnace; abstract. E. Berg. Metals & Alloys 16:488 S '42

PIG iron—*Continued*

Use of active mixer for reducing silicon content of pig iron; abstract. W. C. Buell, jr. Steel 110:51 Ap 27 '42

Use of sinter to increase blast furnace output. il Steel 110:107-8 My 11 '42

Washed coking coal needed for greater output of pig iron; abstract. W. S. McAleer. Iron Age 150:52 O 8 '42

See also

Cast iron

Charcoal iron

Iron

Iron founding

Prices

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:360-1 Ja 5 '42

Pig iron. Published in weekly numbers of Iron age

Pig iron price, monthly, 1924-1941; tabulations. Iron Age 149:162+ Ja 1 '42

Price schedule. Iron Age 149:130 Ja 1 '42

Statistics

Pig iron production, monthly, 1929-1941; tabulation. Steel 110:357 Ja 5 '42

United States pig iron production, monthly 1901-1941; tabulation. Iron Age 149:160 Ja 1 '42

World production of pig iron and ferro-alloys, by countries, 1929-1941; tabulation. Steel 110:349 Ja 5 '42

PIGMENT padding process. See Dyes and dyeing—Vat dyes

PIGMENTS

Anthochlor pigments; the pigments of cosmos sulphureus. T. A. Geissman. bibliog Am Chem Soc J 64:1704-7 Jl '42

Aridye pigment-dyeing process. diags Textile World 92:90-1 My '42

Basic principles involved in the preparation of pigments. R. H. Sawyer. bibliog diags J Ap Phys 13:596-601 O '42

Chemicals affecting loss of drying; by New York paint and varnish production club. Paint Oil & Chem R 104:94-8 N 5 '42; Abstract. Oil Paint & Drug Rep 142:47B O 26 '42

Classification and properties of dyestuffs and pigments. E. R. Laughlin. Paper Ind 24:499-502, 600-5, 709-11 Ag-O '42

Color harmony and pigments. H. Hiler. 61p bibliog(p53-61) $7.50 Favor, Ruhl & co, Chicago '42

Colouring cement; pigments covered by a British standard. Chem Age (Lond) 46:281 Je 6 '42

Conference on the physics of pigments and glasses. Glass Ind 23:222 Je '42

Derivation of the hiding equation. F. Battline. Paint Oil & Chem R 104:9-10 My 21 '42

Dispersion of pigments by ball and pebble mills. E. K. Fischer. bibliog il Ind & Eng Chem 33:1465-71 D '41

Dry colour manufacture; modern trends and basic manufacturing methods. C. W. Reynolds. il Can Chem & Process Ind 26:133-7 Mr '42; Same abr. Chem & Ind 61:205-6 My 2 '42

Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42

Durability of soap-treated zinc oxide paints. D. G. Nicholson and T. W. Mastin. bibliog il Ind & Eng Chem 34:996-1002 Ag '42

Dyeing of cotton with mineral khaki; a comparison of the penetration, rubbing fastness and handle of cotton dyed with pigments produced by chromate and alkali development methods. E. Race, F. M. Rowe and J. B. Speakman. Soc Dyers & Col J 58:161-2 Ag '42

Effect of particle size on the tinting strength of pigments. G. Barrick. bibliog Paint Oil & Chem R 104:7-10 Ja 1 '42

Effect of pigments on oleoresinous film structure. R. C. Ernst and G. R. Eudaley. bibliog Paint Oil & Chem R 104:102-3, 114-15, 118-19 N 5; 18, 20 N 19 '42

Evaluation of methocel as a pigment adhesive for paper coatings. R. M. Upright, M. Kin and F. C. Peterson. bibliog Paper Tr J 114:36-40 Ja 8 '42

Glass-pigment systems. C. Robertson. J Ap Phys 13:635-8 O '42

Graphite as a paint pigment. Paint Oil & Chem R 104:22+ Je 4 '42

Identity of the red pigment in the roots of tripterygium wilfordii and celastrus scandens. M. S. Schechter and H. L. Haller. Am Chem Soc J 64:182-3 Ja '42

Infrared reflectance of camouflage enamels. Oil Paint & Drug Rep 142:47A-47B O 26 '42

Isomerizations of polyene acids and carotenoids; preparation of β-eleostearic and β-licanic acids. H. H. Strain. bibliog Am Chem Soc J 63:3448-52 D '41

Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

Manufacture of bronze pigments. H. H. Mandle. il Metal Prog 41:214-16 F '42

Marketing mineral pigments. C. L. Harness. U S Bur Mines Information Circ 7217:1-27 '42

Marketing natural mineral pigments. C. L. Harness. U S Bur Mines Information Circ 7198:1-26 '42

Oil absorption of pigments. M. A. Azam. Ind & Eng Chem Anal ed 14:545-6 Jl 15 '42

Old light in the new dark. M. A. Weil. il Mod Plastics 20:64+ O '42

Osage orange pigments; improved separation; establishment of the isopropylidene group. M. L. Wolfrom and J. Mahan. Am Chem Soc J 64:308-11 F '42

Osage orange pigments; oxidation. M. L. Wolfrom and A. S. Gregory. Am Chem Soc J 63:3356-8 D '41

Osage orange pigments; oxidation. M. L. Wolfrom and S. M. Moffett. bibliog Am Chem Soc J 64:311-15 F '42

Physics of pigments in dispersed systems. H. Green. bibliog il J Ap Phys 13:611-22 O '42

Pigment binders in textile printing. A. J. Hall. Textile Col 64:175-6 Ap '42

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

Pigment of the malaria parasite. D. B. Morrison and W. A. D. Anderson. bibliog Pub Health Rep 57:90-4 Ja 16 '42

Pigment padding processes of applying vat dyes. W. E. Hopkins. diags Soc Dyers & Col J 57:358-62 D '41; Same. Am Dyestuff Rep 31:171-2, 193-4, 249-51+ Ap 13, My 25 '42; Same cond. Textile Col 64:301-2+ Je '42; Excerpts. Textile World 92:114 Ap '42; Discussion. Soc Dyers & Col J 57:362 D '41

Pigments and pigmentation. H. L. Beakes. Paint Oil & Chem R 104:20+ Mr 26 '42

Preparation of pigment mounts for microscopy. R. P. Allen. il Ind & Eng Chem Anal ed 14:92-4 Ja 15 '42

Pro-γ-carotene. L. Zechmeister and W. A. Schroeder. bibliog il Am Chem Soc J 64:1173-7 My '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:11-12 Mr 26 '42

Prolycopene. A. L. LeRosen and L. Zechmeister. bibliog diag Am Chem Soc J 64:1075-9 My '42

Properties of luminescent materials. C. E. Barnett. bibliog il Chem & Eng N 20:1006-9 Ag 25 '42

Protective and decorative coatings. J. J. Mattiello, ed. v2 658p $6 Wiley '42

Rearrangements of pyrrole rings in the oxidation of dipyrrylmethanes. A. H. Corwin and K. J. Brunings. bibliog Am Chem Soc J 64:2106-15 S '42

Recent uses for luminescent pigments. R. W. Joerger. Am Dyestuff Rep 31:183-5, 190 Ap 13 '42

Role of parasite pigment in the malaria paroxysm. D. B. Morrison and W. A. D. Anderson. bibliog Pub Health Rep 57:161-74 Ja 30 '42

Separation and characterization of carotenoid pigments produced from mineral oil by bacteria. H. F. Haas, L. D. Bushnell and W. J. Peterson. bibliog Science 95:631-2 Je 19 '42

PIGMENTS—*Continued*

Simple technique for making your own bromoil ink. H. Kreuder. il Am Phot 36:20-1 Mr '42

Some applications of wave-length turbidimetry in the infrared. C. E. Barnett. bibliog J Phys Chem 46:69-75 Ja '42

Structural investigations upon a substituted dipyrrylmethane; an unusual melting point-symmetry relationship. A. H. Corwin, W. A. Bailey, jr. and P. Viohl. bibliog Am Chem Soc J 64:1267-73 Je '42

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

Technology of aluminum pigments. Paint Oil & Chem R 104:33+ F 12 '42

Textile printing by pigmented lacquers. E. A. Ellis. Textile Col 64:38-9 Ja '42

What you can use; colors for printing inks. Oil Paint & Drug Rep 140:58 N 17; 56 N 24 '41

What you can use; wetting agents for pigments. Oil Paint & Drug Rep 141:60 F 16 '42

Zinc oxide as a paint pigment. Paint Oil & Chem R 104:22 Je 4 '42

Zinc tetroxy chromate; a rust-inhibitive primer pigment. W. W. Kittelberger. bibliog il Ind & Eng Chem 34:363-72 Mr '42

See also

Anthocyanins
Bixin
Carbon black
Chlorophyl
Cyanines
Dyes and dyeing
Fucoxanthin
Lead oxides
Paint
Phthiocol
Titanium oxides
Zinc chromate
Zinc oxides
Zinc sulfide

Prices

Dry colors ceiling basis disclosed. Oil Paint & Drug Rep 140:3+ D 8 '41

Statistics

Lead and zinc pigments, 1941. Chem & Met Eng 49:103-4 F '42

Lead pigment sales, 1940, 1941. Oil Paint & Drug Rep 141:4+ My 25 '42

Marketing mineral pigments. C. L. Harness. U S Bur Mines Information Circ 7217:1-27 '42

Testing

New all-glass mill. D. B. Pall. il diag Ind & Eng Chem Anal ed 14:345-8 Ap 15 '42

PIGS. See Swine

PILAT, Stanislaw, 1881-1942

Died at enemy hands; bibliography of his works. Inst Pet J 28:176-7 Ag '42

PILE drivers

Swinging leads changed to fixed members at little cost. il Eng N 129:445-6 S 24 '42

Three-lead driver speeds pier work. il Eng N 129:299 Ag 27 '42

PILE fabrics

Rising fashion for cotton piles. J. Black. il Textile World 92:78-9 O '42

See also

Velvet

PILES and pile driving

Big rigs drive cofferdam piles; TVA's big Kentucky dam. J. W. Peerson. il diags Eng N 128:194-9 Ja 29 '42

C.N.R. practice in using steel H-piles for bridge piers. J. F. Salmon. il diags Roads & Bridges 80:21-6+ Ag '42

Don't hit timber piles too hard. T. C. Bruns. il Civil Eng 11:726-8 D '41

Foundation tests for Los Angeles steam plant. W. F. Swiger. il diags plan Civil Eng 11:711-14 D '41

Latest type piling structure for Gulf Coast marine drilling. C. C. Pryor. il diags plan Pet Eng 13:27-30 Je '42

More dependable pile-driving formula. W. H. Rabe. il Eng N 127:892-5 D 18 '41

Navy warehouse foundation on bottom-bearing piles with concrete tips. J. H. Thornley. il Civil Eng 12:372-3 Jl '42

Pile-driving formulas; progress report of the committee on the bearing value of pile foundations. bibliog Am Soc C E Proc 67:853-66 My '41; Discussion. 67:1391-1401, 1517-48, 1784-98, 1939-56; 68:169-81, 311-31, 445-6, 788-800 S '41-Mr, My '42

Pile foundations salvaged for shipyard. il Eng N 129:354-6 S 10 '42

Piled foundations. S. Packshaw. diags Mech Handling 29:85-9 My '42

Static load tests for bearing piles. V. Hansen and F. N. Kneas. il Civil Eng 12:545-7 O '42

Steel piles for subaqueous work. G. G. Greulich. il diags Civil Eng 12:567-9 O '42

Studies in driving timber piles. C. C. Oleson. il Civil Eng 12:106 F '42

Timber friction pile foundations. F. M. Masters. il diags Am Soc C E Proc 67:1657-82 N '41; Discussion. 68:297-8, 629-34, 801-3, 1041-53, 1159-67, 1407-10 F, Ap-Je, S-O '42

Two-pipe pile jetting rig speeds driving on navy pier job. il Eng N 128:200 Ja 29 '42

Wood piles with mortar coating save time and critical materials. il Eng N 129:624-6 N 5 '42

See also

Cofferdams
Concrete piling
Foundations
Piers
Sheet piling

PILLOWCASES

Rating

Sheets and pillowcases. Consumers' Research Bul 9:7-9 Mr '42

PILLS

South American way for Carter's pills. il Mod Packaging 15:77-8 Mr '42

PIMARIC acid

Analysis

Content of *l*-pimaric acid in pine oleoresin; improved methods for its determination. E. E. Fleck and S. Palkin. bibliog Ind & Eng Chem Anal ed 14:146-7 F 15 '42

PIMELIC acid

Biosynthesis of biotin. R. E. Eakin and E. A. Eakin. bibliog Science 96:187-8 Ag 21 '42

Growth-stimulating effect of biotin for the diphtheria bacillus in the absence of pimelic acid. V. du Vigneaud and others. Science 96:186-7 Ag 21 '42

Pimelic acid, biotin and certain fungi. W. J. Robbins and R. Ma. Science 96:406-7 O 30 '42

PIMIENTO peppers. See Peppers

PINACOL

Kinetics of the periodate oxidation of 1,2-glycols; ethylene glycol, pinacol and *cis*- and *trans*-cyclohexene glycols. C. C. Price and M. Knell. Am Chem Soc J 64:552-4 Mr '42

PINACOLYL alcohol

Olefin rearrangements; the equilibrium of olefins from pinacolyl alcohol. R. K. Smith. bibliog Am Chem Soc J 64:1733-5 Jl '42

PINACOLYL trimethylammonium hydroxide

Mechanism of elimination reactions; the decomposition of quaternary ammonium bases and of xanthate esters. P. G. Stevens and J. H. Richmond. bibliog Am Chem Soc J 63:3132-6 N '41

PINE

Cutting based upon economic increment. S. O. Heiberg. bibliog Pulp & Pa of Can 43:833-8 O '42

Development of naval stores and pulpwood supplies from the pinus mercusi of northern Sumatra. D. G. Moon. il Paper Tr J 114:34-7 Ap 16 '42; Same cond. Paper Ind 24:89-90 Ap '42

Growing of white pine on the Yale forest near Keene, New Hampshire. R. C. Hawley and R. T. Clapp. 44p pa 75c Yale univ. School of forestry, 205 Prospect st, New Haven, Conn. '42

PINE—*Continued*

Management of loblolly pine in the pine-hardwood region in Arkansas and in Louisiana west of the Mississippi river. H. H. Chapman. 150p bibliog(p147-50) pa $1 Yale univ. School of forestry, 205 Prospect st, New Haven, Conn. '42

Masonite distributes seedlings. Paper Tr J 115:23 S 10 '42

Paneling in knotty pine. R. J. Alexander. diags Am Bld 64:66-7+ Je '42

Pulping loblolly pine heartwood with calcium, magnesium, and sodium base sulphite liquors. J. N. McGovern and G. H. Chidester. Paper Ind 23:1128+ F '42

Pulping pine heartwood by the sulphite process; abstract. E. Hägglund. Chem & Met Eng 49:182 F '42

Resin acids from pine tar. J. P. Bain. Am Chem Soc J 64:871 Ap '42

Stocking of lodgepole pine after fire. H. A. Parker. Pulp & Pa of Can 43:774 S '42

Analysis

Content of *l*-pimaric acid in pine oleoresin; improved methods for its determination. E. E. Fleck and S. Palkin. bibliog Ind & Eng Chem Anal ed 14:146-7 F 15 '42

Prices

Wholesale price of ponderosa pine boards; new series; annually, 1926-1931, monthly, 1932-1941. Survey of Cur Business 22:22 Ap '42

Wholesale prices of southern yellow pine boards and flooring; new series, monthly, 1926-1941. Survey of Cur Business 22:22 Ap '42

PINE oil

Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34:1028-34 S '42

Lubricating-oil experiments in Sweden; pine-tar-oil distillate. For Comm W 9:28 O 10 '42

New process for synthetic pine oil production. Manuf Rec 110:56 D '41

Organic solvents; polyhydric alcohols: amine compounds: chlorethylenes. S. Yates. Textile Col 64:232 My '42

Pine oil from gum developed by Hercules. Oil Paint & Drug Rep 140:37 D 1 '41

Pine oil outlook. F. U. Rapp. Soap & San Chem 18:111+ Jl '42

Testing soaps and emulsions; abstract. L. Ivanovszky. Soap & San Chem 18:57-8 Ap '42

Prices

Pine oil prices rolled back to October. Oil Paint & Drug Rep 142:7+ Jl 20 '42

PINE oleoresin. See Rosin

PINEAPPLES

Azores Islands pineapple industry in 1941, and comparisons for earlier years. For Comm W 7:17 Ap 11 '42

Fifteen minutes from raw pineapple to canned fruit; Dole's Honolulu plant. il Mod Packaging 15:81-3+ F '42

PINENE

Oxidation of β-pinene with selenium dioxide. L. M. Joshel and S. Palkin. bibliog Am Chem Soc J 64:1008-9 Ap '42

Reactions of β-pinene; with selenium dioxide in various solvents. W. D. Stallcup and J. E. Hawkins. bibliog Am Chem Soc J 63:3339-41 D '41

Reactions of β-pinene; with selenium dioxide in acetic acid. W. D. Stallcup and J. E. Hawkins. Am Chem Soc J 64:1807-9 Ag '42

Vapor phase thermal isomerization of α- and β-pinene. L. A. Goldblatt and S. Palkin. bibliog diag Am Chem Soc J 63:3517-22 D '41

PINENEEDLE oil. See Pine oil

PING pong balls

All-American bounce; nitrocellulose table tennis ball. M. Peters. il Mod Plastics 19:47+ D '41

PINGUINS

New protease from bromelia pinguin L. C. F. Asenjo and M. del C. Capella de Fernandez. Science 95:48-9 Ja 9 '42

PINOCARVONE

Reactions of β-pinene; with selenium dioxide in various solvents. W. D. Stallcup and J. E. Hawkins. bibliog Am Chem Soc J 63:3339-41 D '41

PIÑON nuts

Develops new market for an old product. S. A. McCarteney. il Food Ind 14:63-4 S '42

PINTO, Peter P.

Celebrates 25 years with Rubber Age. P. L. Palmerton. por Rubber Age 52:63 O '42

PIOCHE, Nevada

Pioche today; current operations in Nevada's 75-year-old camp. J. B. Huttl. il diags Eng & Min J 142:35-7 N '41

PIPE bending

Dies for precision press-bending of pipes. il Engineering 154:36 Jl 10 '42; Engineer 174:40 Jl 10 '42

How to pack sand in pipes. Can Min J 63:577 S '42

Pipes made to fit by wrinkle-bending. il Comp Air M 47:6647 Ja '42

Precision pipe bending. il diags Engineer 173:292-3, 312-15 Ap 3-10 '42; Same cond. Iron Age 149:62-5 Je 11 '42; Same cond. Aero Digest 41:162, 164, 167+ Ag '42

Precision pipe bending developed by Blackburn aircraft, ltd. il Automobile Eng 32:393-5 O '42

Precision pipe bending, using Cerrobend, low melting point alloy; Blackburn aircraft, ltd. il Iron Age 150:79 O 22 '42

Press-bending of small pipes. il Engineering 153:306-7, 310 Ap 17 '42

Shipyard pipe shop streamlines fabrication for Liberty ships. R. S. Jones. il Heating-Piping 14:600-2 O '42

Wrinkle bending in a pipe-line river crossing. il Gas Age 90:23 Ag 13 '42

PIPE bending machines

Pneumatic press for precision pipe bending. il Engineer 173:470 Je 5 '42

Precision pipe bending developed by Blackburn aircraft, ltd. il Automobile Eng 32:393-5 O '42

PIPE bends

See also
Pipe elbows

PIPE coating

Asphalt protective coating for steel water pipes. A. H. Benedict. il Eng N 128:327-9 F 26 '42

Coating and wrapping pipe by machine. W. H. T. Thornhill. il Pet Eng 13:131-2 Mr '42

Handling line pipe in the central yard. F. H. Love. il Pet Eng 13:137-8 Mr '42

Line traveling pipe coating and wrapping machine. il Water Works & Sewerage 89: insert 122 Je '42

Pipe protection of Gulf coast extended to field flow lines. N. Williams. il Oil & Gas J 41:133-4 Je 25 '42

Pipe protection with a thin enamel coat; San Francisco water department. J. J. Crowley. il Eng N 129:28-30 Jl 2 '42

Protective coatings for steel pipe. D. L. Brown. il Gas Age 88:14-15 D 4 '41

Reconditioning steel mains in Detroit. R. B. Allen. Gas Age 89:15-16+ My 21 '42; Same. Am Gas Assn Mo 24:221-3 Je '42

When should a pipe line be coated? S. Thayer. Pet Eng (Annual no) 13:158+ [Jl] '42

PIPE coverings

Coating and wrapping pipe by machine. W. H. T. Thornhill. il Pet Eng 13:131-2 Mr '42

Heat insulation, its relation to mill efficiency. R. C. Parlett. bibliog Paper Tr J 114:27-38 Je 4 '42

Insulated shipboard piping now jacketed with Fiberglas tape. il Marine Eng 47:118+ F '42

Protective coatings for steel pipe. D. L. Brown. il Gas Age 88:14-15 D 4 '41

PIPE coverings—*Continued*

Thickness of insulation required to prevent sweating on cold pipe lines. R. N. Hosey. il tables Heat & Ven 39:49-53 S '42

See also

Pipe coating

PIPE cutting

Cutting pipe on the run; new hot saw. il Heating-Piping 14:168 Mr '42

Improved pipe mill hot saw. diags Iron Age 149:43 Ja 22 '42

PIPE cutting machines

Rigney pipe cutting machine. B. Harkness. il Water Works & Sewerage 88:507 N '41

PIPE elbows

Comparative study of friction-heads in screwed and welded elbows. F. E. Giesecke and J. S. Hopper. il diags Heating-Piping 14:56-60 Ja '42

Effect of vanes in reducing pressure loss in elbows in 7-inch square ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. bibliog il diags Heating-Piping 14: 566-73 S '42; Excerpts. Sheet Metal Worker 33:47-9 D '42

Pressure loss caused by elbows in 8-in. round ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. il charts Sheet Metal Worker 33:44, 46, 48+ F '42

Rectangular ducts and fittings (cont). O. W. Kothe. diag Sheet Metal Worker 33:28-9 Je; 28-9 Jl; 28-9 Ag; 26-7 S; 24-5 O; 24-5 N '42

PIPE fitting

Fabricating piping systems by electric-arc welding. A. M. Hill. il diags Oil & Gas J 41:41-3+ Jl 16; 38-9 Jl 23; 161-2 Jl 30; 45-6 Ag 6 '42

Installation of Palmer filter bed agitators; with cost data. S. H. Mitchell. il Water Works & Sewerage 89:271-2 Je '42

Modern marine pipefitting. E. M. Hansen. 434p $3 Cornell maritime press, 350 W. 23d st, New York '41

Piping; case for welded fittings vs. miter and intersection welding. G. F. Sherman. il diag Heat & Ven 39:42-5 Mr '42

Piping; ten important pointers on valve installation and maintenance. F. C. Ernst. Heat & Ven 39:25-7 Ap '42

Practical pointers on pipe connections. A. H. Korn. diags Power 86:562-3 Ag '42

Shipyard pipe shop streamlines fabrication for Liberty ships. R. S. Jones. il Heating-Piping 14:600-2 O '42

Time study of pipe fitting leads to incentive plan. il Heating-Piping 13:755 D '41; Same. Heat & Ven 39:26-7 Mr '42

Valves must be selected and installed with care. diags Oil & Gas J 40:174-6 Ap 30 '42

Welding simplifies making up pipe. W. E. Johnson. diags Rock Prod 45:30-1 S '42

Wrench clearances required for bolting-up pipe flanges. A. H. Korn. diags Product Eng 13:154-6 Mr '42

See also

Hot water heating
Pipe joints
Plumbing
Steam fitting

PIPE fittings

Air-defense methods for repair of gas mains damaged by bombs. G. E. Szekely. diags Am Gas Assn Mo 24:127-30+ Ap '42

Alternate materials in product design. J. J. Kanter. il Metals & Alloys 15:72-3 Ja '42

Care of return-bend fittings keeps refineries operating. M. E. Burkhart. Oil & Gas J 41: 47 Je 4 '42

Clow emergency repair fittings. il diags Water Works & Sewerage 89:sup78-9 Mr '42

Home-made welded flanges and fittings speed construction of war refineries. il diags Nat Pet N 34 pt 2:R348-50 O 28 '42

Piping; case for welded fittings vs. miter and intersection welding. G. F. Sherman. il diag Heat & Ven 39:42-5 Mr '42

Primary considerations in selecting fittings. J. W. Greve. il diags Machine Design 14:58-60+ My '42; Abstract. Metals & Alloys 15: 1050+ Je '42

Resistance of valves and fittings to flow of water. chart Water Works & Sewerage 89:sup46-7 Je '42

Review of power and mechanical equipment; piping, fittings and valves. il diags Power 85:965-8 Mid-D '41

Simplified practice for pipe fittings approved. Refrig Eng 43:79 F '42

See also

Pipe flanges
Pipe joints
Valves

Manufacture

Casting plow parts and pipe fittings; Lynchburg foundry company. il Foundry 70:100-3+ My '42

Standards

Code for pressure piping. S. Crocker and others. il diags Heating-Piping 14:1-5, 101-5, 155-8, 215-19, 303-4 Ja-My '42

Report of the A.P.I. committee on the standardization of oil-country tubular goods. Am Pet Inst Proc 22(4):125-33 '41

PIPE flanges

Home-made welded flanges and fittings speed construction of war refineries. il diags Nat Pet N 34 pt 2:R348-50 O 28 '42

How to insulate flanges; illustrated instructions. Power 86:128 F '42

Use cast iron pipe flanges to break forged steel bottleneck. G. W. Hauck. Heating-Piping 14:615-16 O '42

Wrench clearances required for bolting-up pipe flanges. A. H. Korn. diags Product Eng 13:154-6 Mr '42

PIPE handling

Handling line pipe in the central yard. F. H. Love. il Pet Eng 13:137-8 Mr '42

Placing heavy concrete pipe sections into difficult position. il Concrete 50:5 Ja '42

PIPE hangers

How to anchor pipe hangers in concrete. A. H. Korn. diags Power 86:720-2 O '42

Inspection of piping supports. diags Power Pl Eng 46:82-4 Ag '42

PIPE joints

Cleans pipe; tank made from scrap. W. R. Tierce. diags Metals & Alloys 16:707 O '42

Code for pressure piping. L. Skog. il diags Heating-Piping 14:302-4, 357-60, 410-12 My-Jl '42

Comparative study of friction-heads in screwed and welded elbows. F. E. Giesecke and J. S. Hopper. il diags Heating-Piping 14:56-60 Ja '42

Current developments in pipe-line welding. A. N. Kugler. il diags Oil & Gas J 41: 182+ S 24 '42

Fibers used in water practice; abstract. J. A. de Graaf. Am Water Works Assn J 33:2061-4 N '41

How piping is welded for navy service. H. W. Hiemke and J. D. Bert. diags Heating-Piping 14:235-6 Ap '42

Lead lubricant combined in a rubber gasket; swing joint for low-pressure steam lines. diag Sci Am 166:66 F '42

Modified coupling ties lines of different sizes together. il Oil & Gas J 41:59 Ag 6 '42

Piping; case for welded fittings vs. miter and intersection welding. G. F. Sherman. il diag Heat & Ven 39:42-5 Mr '42

Primary considerations in selecting fittings. J. W. Greve. il diags Machine Design 14: 58-60+ My '42; Abstract. Metals & Alloys 15:1050+ Je '42

Protecting transmission system against surface subsidence. J. Garrett. il diags Oil & Gas J 41:145, 148+ S 24 '42

Repair sleeve for water pipes. diags Engineering 154:107 Ag 7 '42

Report of the A.P.I. committee on the standardization of oil-country tubular goods. Am Pet Inst Proc 22(4):125-33 '41

Simple ways to make mitered pipe joints. diag Pet Eng 13:76 N '41

Structural changes in the bonding layer of soft-soldered joints in copper pipe lines on long-continued heating. W. H. Swanger and A. R. Maupin. bibliog J Research Nat Bur Stand 28:479-87, pl 1-8 Ap '42

PIPE joints—*Continued*

Use of hardfacing material on rotary tool joints. T. P. Sanders. il Oil & Gas J 40: 36, 39+ F 5 '42

Welding of lead. R. Dick. il Dom Eng 160: 42-4+ Ag '42

Welding of piping. A. N. Kugler. il diags Heat & Ven 39:55-8 My; 51-4 Je; 59-63 Jl '42

See also
Pipe fittings
Piping (power plants)
Plumbing

Testing

Corrosion tests of soldered joints on copper tubes. A. W. Tracy. il diag Heating-Piping 14:538-40 S '42

Stress distribution in welded tube connections. F. L. Tocher. bibliog diags Welding J 21:sup125-8 Mr '42

PIPE laying

Arc welding simplifies and speeds construction of pipe lines. C. M. Taylor. il Oil & Gas J 41:172-3 S 24 '42

Construction practices on 24-in. war emergency pipe line. P. Reed. il Oil & Gas J 41:41-3 O 8 '42

Current developments in pipe-line welding. A. N. Kugler. il diags Oil & Gas J 41: 182+ S 24 '42

Jacking a sewer under a railroad at Warren, Ohio. W. S. Harvey. il diag Eng N 129:22-4 Jl 2 '42

Laying water mains in Milwaukee. H. Ihling. il Am Water Works Assn J 34:595-600 Ap '42

Lessons in pipeline construction; oil line from Portland to Montreal. il Water & Sewage 79:16-17+ D '41

Methods of handling street excavations. D. D. Gross. Am Water Works Assn J 34: 1545-51 O '42

Modern equipment facilitates construction of pipe lines. L. H. Favrot. il Pet Eng 13:90+ Mr '42

Need for increased gas supply prompts line construction; Oklahoma natural gas company. R. W. Parker. il Pet Eng 14:31-2 O '42

New oil pipe line speedily built; Shell oil company pipe line between Ventura field and Wilmington refinery. W. H. O'Connell. il diag Comp Air M 47:6710-11 Ap '42

New oil-transportation era presaged by pipe-line work. P. Reed. il map Oil & Gas J 41:52-4 S 24 '42

New pipe-line laying methods. P. Reed. il Oil & Gas J 40:33-4+ Mr 19 '42

Pipe line laid through rough terrain of West Virginia. F. H. Love. il Pet Eng 13:75-7 Ag '42

Plantation line demonstrates construction efficiency. P. Reed. il map Oil & Gas J 40:44-6 D 11 '41

Plow-type equipment useful in pipe-line construction. P. Reed. il Oil & Gas J 40:191-2 Ja 29 '42

Portland-Montreal pipe line completed in record time. F. H. Love. il map Pet Eng 13:72+ D '41

Replacing gas lines under city streets without disrupting traffic. L. S. Flint. il Gas Age 89:9 Ja 1 '42

Short cuts speed outfall sewer construction. F. S. Bixby. il Water Works & Sewerage 89:171-2 Ap '42

Short gas line uses unique suspension method. E. Chesnutt. il Oil & Gas J 41:49 O 29 '42

United Gas installs total of 22 hookups in 19 hours. H. F. Carr. il Oil & Gas J 41: 189-90 S 24 '42

War requirements bring changes in arc-welding technique as applied to pipe-line construction. C. M. Taylor. il Pet Eng 13:114, 116, 118 Mr '42

See also
Culverts
Electric conduits
Gas distribution
Pipe joints
Pipe lines
Sewerage
Water distribution

PIPE laying, Subaqueous

Forty-five days required to lay Lirette-Mobile pipeline across Lake Pontchartrain. il Am Gas J 156:28-9 My '42

Laying of a submarine pipe line in Portland harbor in winter. H. U. Fuller. N E Water Works Assn J 56:65-9 Mr '42; Abstract. Water Works & Sewerage 88:503 N '41

Lirette-Mobile pipe line completed. il Gas Age 89:20-1 Mr 12 '42

Lone Star completes Brazos River crossing. il Gas Age 89:20 Ja 29 '42

Marine pipe-line construction methods employed in Lake Pontchartrain crossing. W. B. Poor. il diag map Pet Eng 13:90+ D '41

Problems presented by water crossings on short line. il Oil & Gas J 41:142 S 24 '42

Sliding an outfall sewer into the ocean. il Eng N 128:58-9 Ja 8 '42

Swamp buggy at work; laying natural gas line. H. Miller. il Gas Age 89:44-5+ My 7 '42

Uncle Sam ordered gas quick! laying pipe in swamps and deep water. K. Fellows. il Gas Age 90:50-1 O 8 '42

United gas pipe line co. constructs Lirette-Mobile project. W. B. Poor. il map Gas Age 89:11-13+ Ja 29 '42

World's longest underwater natural gas pipeline completed; Louisiana gas fields to Mobile. il Manuf Rec 111:24-5+ Mr '42

PIPE lines

Aerial survey parties active in 1941, locating mineral areas and laying out pipe lines. W. E. D. Stokes, jr. Min & Met 23:65-6 F '42

Air release for pipe line. C. Labbe. diag Eng & Min J 143:119 Ag '42

Development of transportation in the United States. J. E. Teal. Am Soc C E Proc 67: 1837-9 D '41

Glass in concrete suggested for pipeline. Cer Ind 39:32 Jl '42

How to get rid of that troublesome air pocket; principles of trap operation. S. H. Coleman. diags Power 86:85 F '42

Ore via pipeline; method patented by E. Erb Wuensch. Business Week p99-100 S 12 '42

Pipe-line flow of solids in suspension. L. C. Fairbank, jr.; W. E. Wilson. Am Soc C E Proc 67:1421-44 O '41; Discussion. 67:1445-7, 1937-8; 68:480-2 O, D '41, Mr '42

Progress of J. Waldo Smith fellowship; air removal at summit of pipe line. P. H. Bliss. Civil Eng 12:112 F '42

See also
Aqueducts
Culverts
Electric conduits
Gas, Natural—Pipe lines
Gas distribution
Gas pipes
Gasoline pipe lines
Heating from central stations
Petroleum pipe lines
Pipe laying
Piping (power plants)
Sewer pipes
Sewerage
Steam pipes
Water distribution
Water pipes
Water supply engineering

Bridge crossing

Hanging a water main under a bridge; mobile pipe-lifting derrick. H. M. Neighbour. il Pub Works 73:18 Jl '42

Pipe line across river hung beneath highway bridge. il Pet Eng 13:162 My '42

Wrinkle bending in a pipe-line river crossing. il Gas Age 90:23 Ag 13 '42

Cleaning

Air-impelled go-devil for pipe lines. il Comp Air M 47:6875 O '42

Cleaning encrusted pipe lines and vacuum filters by use of inhibited muriatic acid. K. L. Mick. Water Works & Sewerage 89:314 Jl '42

Internal scrapers adapted to gas and vapor-carrying lines. R. M. Sanford. il Oil & Gas J 40:35, 37 F 19 '42

See also
Pipes—Cleaning
Water pipes—Cleaning

PIPE lines—*Continued*

Communication systems

Communication and signaling features on new line. L. E. Adler. il diags Pet Eng 13:140-4 Mr '42

War material conservation in pipe-line communication systems. L. E. Adler. Pet Eng 13:31 Jl '42

Corrosion

Corrosion coupons and pipe-line predictions. Oil & Gas J 41:174+ S 24 '42

Method of determining pipe line corrosivity due to soils. P. F. Marx. il diags Pet Eng 13:29-32 F '42

Methods of cleaning corrosion coupons. C. E. Lee and A. C. Alter. diag Pet Eng (Annual no)13:92, 94, 96 [Jl] '42

Use of soil surface potential in locating pipe-line corrosion. O. C. Mudd. diags Oil & Gas J 41:50, 52+ My 14 '42

See also

Corrosion and anti-corrosives—Underground corrosion

Electrolytic corrosion

Pipe lines—Protection

Water pipes—Corrosion

Cost

El Monte pipeline, San Diego; unit costs. Eng N 129:122 Jl 16 '42

Detection

Combination pipe and sewer locator. Water & Sewage 80:52 Ap '42

Law

Pipe line easement construed. Gas Age 90:11+ Ag 27 '42

See also

Pipe lines as common carriers

Maintenance and repair

Maintenance of natural gas transmission lines. J. H. Lang. diags Oil & Gas J 41:134+ S 24 '42

Patrolling of natural-gas pipe lines by airplane. C. B. McMahan. Gas Age 89:22-3+ My 21 '42

Protection

Bonding pipe lines as protection against electrolysis. E. E. Claggett. diags Pet Eng (Annual no)13:128+ [Jl] '42

Cathodic protection installation carefully engineered. C. F. Ofner. il Pet Eng 13:99-100, 102 Mr '42

Cathodic protection of tank farms. R. A. Brannon. plan Pet Eng 13:92, 94-6 S '42

Determination of efficiency of a cathodic-protection system. H. C. Gear. Gas Age 88:26-8 D 18 '41

Electrical protection and use of light-weight pipe in pipe-line construction. W. F. Rogers. Pet Eng 13:71-4 Mr '42

Experiences with cathodic protection. G. R. Olson. il Gas Age 89:24-6+ My 21 '42

Pipe-line protection, what does it cost? summary of operating costs for five years of eight cathodic corrosion eliminators. S. A. Wright. Gas Age 90:18-19 Jl 30 '42; Same. Am Gas J 157:18, 21 Ag '42

Practical application of zinc anode protection to an 18-in. pipe line. C. L. Brockschmidt. diag Pet Eng 13:74-6, 78+ F '42

Protecting buried metals against corrosion. S. Thayer. Oil & Gas J 40:37 Ap 2 '42

Protecting transmission system against surface subsidence. J. Garrett. il diags Oil & Gas J 41:145, 148+ S 24 '42

Recent developments in cathodic protection of bare pipe lines. G. R. Olson. il Pet Eng 13:35-6, 38-40 My '42

Soil-corrosion studies, 1939; coatings for the protection of metals underground. K. H. Logan. J Research Nat Bur Stand 28:57-71 Ja '42

Southern pipe line undertakes cathodic protection in Saxet. N. Williams. il Oil & Gas J 40:38+ D 4 '41

Study of corrosion aids in protection of pipe lines. bibliog Oil & Gas J 41:191-2+ S 24; 37 O 1 '42

Transmitting natural gas 1155 miles, from Amarillo field to Detroit; cathodic protection. C. H. Vivian. il plan Comp Air M 47:6633-4 Ja '42

See also

Gas pipes—Protection

Pipe coating

Water pipes—Protection

River crossing

Lone Star completes Brazos River crossing. il Gas Age 89:20 Ja 29 '42

Tables, calculations, etc.

Flow of water through pipes; equations can be applied to problems in operation of lease, gasoline plant, refinery and pipe-line systems. R. W. Machen. Oil & Gas J 40:39-40 Ap 9 '42

PIPE lines, Portable

Portable pipe line developed by army speeds fueling job. J. P. O'Donnell. il Oil & Gas J 41:20-1 O 8 '42

PIPE lines, Subaqueous

Lirette-Mobile pipe line completed. il Gas Age 89:20-1 Mr 12 '42

See also

Pipe laying, Subaqueous

PIPE lines as common carriers

Consent decree in Elkins-act case. Ry Age 111:1091 D 27 '41

Elkins-case decree will limit pipe-line profits. Oil & Gas J 40:61 D 25 '41

Pipeline suit ends; 7% return specified; suit charged violation of Elkins act. Nat Pet N 33:3+ D 24 '41

Regulation of pipe lines as common carriers. W. Beard. 184p $2 Columbia univ. press '41

PIPE lining

Pipe protection with a thin enamel coat; San Francisco water department. J. J. Crowley. il Eng N 129:28-30 Jl 2 '42

See also

Water pipes—Lining

PIPE scrapers. See Scrapers, Pipe

PIPE threads

Standards

A.P.I. report on pipe-thread symbols. J. J. Dunn. Am Pet Inst Proc 22(4):136-9 '41

PIPE tongs

Byron Jackson tongs will handle wide range of pipe sizes. il diags Oil & Gas J 40:93 Ap 16 '42; Pet Eng 13:126-7 Ap '42

PIPERIDINE

Narcotic potency of biurets containing piperidine. H. H. Anderson and others. bibliog Science 95:254-6 Mr 6 '42

PIPERIDINOETHANOL

Synthetic mydriatics. F. F. Blicke and C. E. Maxwell. bibliog Am Chem Soc J 64:431-3 F '42

PIPERONYLAMIDES

N-substituted piperonylamides. S. I. Gertler and H. L. Haller. Am Chem Soc J 64:1741 Jl '42

PIPES

Alternate materials in product design. J. J. Kanter. il Metals & Alloys 15:72-3 Ja '42

Boom maintenance stepped up at Ayrshire Patoka by using pipe in rebuilding job. M. A. Walsh. il Coal Age 46:61 N '41

Handy clamp for aligning pipe for tack-welding operations. diags Can Min J 63:16 Ja '42; Same abr. Mech Handling 29:69-70 Ap '42

Handy kink for making pipe bushings out of standard pipe. W. F. Schaphorst. Am Gas J 156:20 Ap '42

Pipes, pumps, packing, and valves in the pulp and paper industry. V. F. Waters. flow charts il Paper Tr J 113:89-90+ N 27 '41

Piping; flexibility and stresses. S. D. Vinieratos and D. R. Zeno. 85p pa $3 Cornell maritime press, New York '41

PIPES—*Continued*

Propagation of electromagnetic waves in parabolic pipes. R. D. Spence and C. P. Wells. Phys R 62:58-62 Jl 1 '42

Sectional fences made from obsolete materials. J. C. Albright. il Pet Eng 13:80 S '42

See also

Air pipes
Culverts
Electric conduits
Gas pipes
Mechanical equipment of buildings
Petroleum—Well casing
Petroleum pipe lines
Pipe fittings
Pipe joints
Pipe laying
Pipe lines
Piping
Piping (power plants)
Plumbing
Sewer pipes
Steam pipes
Stove pipes
Tubes
Water pipes

Cleaning

Cleaning pipe by shot blasting. il Iron Age 150:62E Jl 30 '42

Cleaning pipe inside and out. il Metals & Alloys 16:270 Ag '42

Flame-priming as a method of removing rust, scale and tubercles from pipe interiors, tank walls, etc. il Water Works & Sewerage 89:444 O '42

Corrosion

See Corrosion and anti-corrosives; Pipe lines—Corrosion; Water pipes—Corrosion

Manufacture

Molding large iron castings; Lynchburg foundry co. P. Dwyer. il Foundry 70:72-5+ Jl '42

Streamlining a pipe shop. A. K. Akers. il Pub Works 72:21-3 D '41

See also

Pipes, Concrete—Manufacture
Pipes, Steel—Manufacture

Prices

Cast iron pipe at New York, net ton; monthly, 1929-1941; tabulation. Iron Age 149:174 Ja 1 '42

Cast iron pipe, Birmingham; prices, 1929-1941; tabulation. Steel 110:366 Ja 5 '42

Standards

Cast iron pipe standards. diags Am Gas Assn Proc 1941:465-71

Code for pressure piping. S. Crocker and others. il diags Heating-Piping 14:1-5, 101-5, 155-8, 215-19, 302-4, 357-60, 410-12 Ja-Jl '42

Code for pressure piping; few editorial changes in new ASA code. S. Crocker. Heating-Piping 14:495 Ag '42

Report of the A.P.I. committee on the standardization of oil-country tubular goods. Am Pet Inst Proc 22(4):125-33 '41

Table of wrought pipe standard dimensions. Chem Ind 49:531 pt 2 (Buyer's guidebook) O '41

Tables, calculations, etc.

Chart for balancing pipe head losses by the Hardy Cross method. G. M. Slight. Eng N 128:41-2 Ja 1 '42

Chart of pipe and casing capacities. L. T. Monson. Oil & Gas J 40:34 Ja 8 '42

Comparative study of friction-heads in screwed and welded elbows. F. E. Giesecke and J. S. Hopper. il diags Heating-Piping 14:56-60 Ja '42

Contents of horizontal cylinders; multiple use chart for vertical and horizontal tanks, pipe lines, etc. J. Tarrant. Water Works & Sewerage 89:282-3 Je '42

Determine liquid flow without a meter. W. F. Schaphorst. diag Am Gas J 156:25 Je '42

Determining wall thickness for pressure vessels. J. Marin. diags Machine Design 14:62-4 Ap '42

Flow of solids in piping; practical data on pumping and piping sludges, muds and suspensions. H. E. Babbitt and D. H. Caldwell. bibliog diags Heating-Piping 14:423-7, 491-4 Jl-Ag '42

Flow of water through pipes; equations can be applied to problems in operation of lease, gasoline plant, refinery and pipeline systems. R. W. Machen. Oil & Gas J 40:39-40 Ap 9 '42

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38:493-530 Je '42

Kinetic energy and momentum correction factors for pipes and for open channels of great width. V. L. Streeter. Civil Eng 12:212-13 Ap '42

Mechanism of flow of fluids through orifices; discussion of paper by J. M. Naiman. J. T. Cortelyou. Oil & Gas J 40:58-9, 61 D 11 '41

Nomograph for equivalent diameters of annuli. D. S. Davis. Chem & Met Eng 49:148 S '42

Pipe and tubing friction chart, smooth and fairly smooth pipes; reference data. Heat & Ven 39:46a-46b O '42

Pipe flow chart. W. F. Schaphorst. Water Works & Sewerage 88:499 N '41

Practical alignment chart for fluid flow in pipelines. P. Meyer. Can Chem & Process Ind 26:269-70 My '42

Pressure drop calculations for flow in pipes. J. A. Hardy and E. N. Kemler. Heat & Ven 39:43-9 Ag '42

Pressure drop in the flow of compressible fluids. W. E. Lobo, L. Friend and G. T. Skaperdas. Ind & Eng Chem 34:821-3 Jl '42

Safe columns from standard pipes. W. F. Schaphorst. Water Works & Sewerage 89:450 O '42

Simplified heat transfer correlation for semi-turbulent flow of liquids in pipes. R. H. Norris and M. W. Sims. bibliog diags Am Inst Chem Eng Trans 38:469-90; Discussion. 490-2 Je '42

Testing

Good kink for locating a leak or a stoppage in a concealed pipe. W. F. Schaphorst. chart Am Gas J 157:10 Jl '42

PIPES, Asbestos cement

Cement-asbestos pipe; Roxite. Metal Finishing 40:142-3 Mr '42

PIPES, Clay. See Pipes, Vitrified clay

PIPES, Concrete

Concrete pipes solve drainage problem at eastern airport. il Concrete 50:4 Ap '42

Drainage for an airplane repair depot. il diag Eng N 129:222-3 Ag 13 '42

Hygrade Sylvania corp. fluorescent lamp plant employs reinforced concrete pipe for underground air ducts. il Heat & Ven 39:37 Mr '42

New plant for fluorescent lamp production; Hygrade Sylvania uses concrete pipe for ducts. il Heating-Piping 14:162-3 Mr '42

Reinforced concrete pipe used for underfloor air ducts at new plant; fluorescent lamp plant of the Hygrade Sylvania corp. S. M. Brown. diag Heating-Piping 14:282+ My '42

See also

Sewer pipes, Concrete

Manufacture

Bell-and-spigot pipe made to West Virginia specifications; Universal concrete pipe co. il Rock Prod 45:61+ S '42

Industrial progress follows sewerage; concrete pipe machinery have contributed to sanitation and development of Latin America. G. W. Hoffmann. il Rock Prod 45:90-1 O '42

Making a porous concrete pipe; Jourdan concrete pipe co. W. B. Lenhart. il Rock Prod 45:64-6 Ap '42

One-man controls pipe manufacture; Charleston concrete pipe co. il Rock Prod 45:56, 58 Jl '42

Save steel by using big concrete pipe. il Rock Prod 45:64-5 Je '42

Use ready mixed concrete to make large pipe. il Rock Prod 45:134 Ja '42

PIPES, Concrete—*Continued*

Testing

Army witnesses test of concrete pipe. R. S. Torgerson. il Rock Prod 44:68+ D '41

PIPES, Copper

Lead-base soldered joints in copper tubing. Franklin Inst J 234:164-5 Ag '42

Structural changes in the bonding layer of soft-soldered joints in copper pipe lines on long-continued heating. W. H. Swanger and A. R. Maupin. bibliog J Research Nat Bur Stand 28:479-87, pl 1-8 Ap '42

PIPES, Corrugated

Relining of an old brick sewer with corrugated metal. J. H. Barth. il diag Pub Works 73:21-2 Jl '42

Structural design of flexible pipe culverts. M. G. Spangler. il diags Iowa Eng Exp Sta (Ames) Bul 153:1-84 bibliog(p67-8) '41

PIPES, Fiber

Fibre pipe run for casing in shallow Illinois oil well. F. Squires. il diags Oil & Gas J 41:61-2 My 28 '42

Fiber pipe supplants steel in oil-well test. Am Gas Assn Mo 24:226 Je '42

Priority-free pipe; resin-treated laminated paper products; Fedralite. H. W. Richter. il Mod Plastics 20:48-9 S '42

PIPES, Glass

Glass in concrete suggested for pipeline. Cer Ind 39:32 Jl '42

Glass in the war. T. J. Thompson. il Comp Air M 47:6808-10 Ag '42

Non-metallic chemical plant; glass pipe lines. A. E. Williams. diag Engineer 174:44 Jl 17 '42

Sanitary glass piping developed for dairy industry. il Cer Ind 39:35 Ag '42

PIPES, Lead

Lead pipe conservation and care of acid-proof linings. Pulp & Pa of Can 43:784 S '42

Welding of lead. R. Dick. il Dom Eng 160: 42-4+ Ag '42

PIPES, Plastic

Laminated plastic pipe for chemicals. V. E. Enz. il Mod Plastics 19:58+ Ag '42; Same. Chem Ind 51:200-1 Ag '42

Plastic pipe and tubing one solution of metal shortage problem. il Pet Eng 14:142, 144, 146 O '42

Plastic pipe has many applications. il Sci Am 167:208 N '42

Plastics invade the waterworks field. il Water & Sewage 80:22-3+ S '42

Plastics used as substitute materials in wartime refinery maintenance. Nat Pet N 34 pt 2:R301-4 S 30 '42

Saran pipe. Paper Tr J 115:18 Ag 27 '42

Saran pipe and tubing. il Chem Ind 51:554-6 O '42

Saran pipe, properties, uses, etc. Pet Eng 13:148 S '42

Transparent pipes for beer. il Mod Plastics 20:52 N '42

PIPES, Steel

Deflection chart for steel pipe buses. W. S. Scheering. Elec W 118:1288 O 17 '42

Evaluate steel pipe as a.c. conductor; substitute for copper in high-voltage substations. S. C. Killian. diags Elec W 117:1349-50 Ap 18 '42

More data on steel pipe conductors. Elec W 117:2237-8 Je 27 '42

Oxy-acetylene flame-priming of line pipe; other oxy-acetylene applications. F. C. Hutchison. il Pet Eng 13:120, 122 Mr '42

Reconditioning steel mains in Detroit. R. B. Allen. Gas Age 89:15-16+ My 21 '42; Same. Am Gas Assn Mo 24:221-3 Je '42; Abstract. Oil & Gas J 40:60 My 7 '42

Steel stretchers for war use made of second-hand steel pipe, with joints electrically welded. F. W. Klay. diags Sheet Metal Worker 33:34 S '42

See also

Tubes, Steel

Water pipes, Steel

Manufacture

Fabrication and installation practices in building the Shasta penstocks. H. W. Young. il diags Steel 111:72-4+ Ag 10 '42

Fabrication of carbon-molybdenum piping for high-temperature service. R. W. Emerson. bibliog il Am Soc T M Proc 41:579-604; Discussion. 605-7 '41

Pipe dream that came true; cleaning steel pipe. il Blast F & Steel Pl 30:1025-6 S '42

PIPES, Vitrified clay

Clay units save metal for radiant heating. il diag Brick & Clay Rec 101:14-16 Jl '42

Pipelines of clay; experiments with gravity-flow oil ducts of ceramic tile. Business Week p64-5 Jl 18 '42

Sewer pipe hot air heating system eliminates metal ducts. il diags Brick & Clay Rec 100:26-7 Je '42

PIPES, Wooden

Creosoted-timber culverts on the Alaska highway. il Roads & Bridges 80:44+ O '42

Creosoted wood-stave drainage pipes on George VI highway. H. N. Macpherson. il Can Eng R & B 79:19+ D '41

Macpherson patented pressure creosoted wood stave pipe culvert. il Pub Works 73:80-1 O '42

Strength research on Armco emergency wood pipe. Roads & Sts 85:77 Ag '42

Use 23-year-old wooden pipe for new water main. Eng N 129:75 Jl 16 '42

Wood for chemical equipment; physical properties; representative makers of wood tanks and pipe for chemical applications. Chem & Met Eng 49:104 S '42

Wood pipe can also serve. Franklin Inst J 234:303-4 S '42

PIPETS

Apparatus for precision calibration of pipets, volumetric flasks, and burets. W. R. Thompson. diags Ind & Eng Chem Anal ed 14:268-71 Mr 15 '42

Attachment for pipets for precise transfer of dangerous fluids. W. R. Thompson. diag Ind & Eng Chem Anal ed 14:73 Ja 15 '42

Modified micropipet for density determinations in heavy water analysis. F. Rosebury and W. E. van Heyningen. bibliog diags Ind & Eng Chem Anal ed 14:363-4 Ap 15 '42

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14: 622-32 Ag 15 '42

Pipet-type capillary viscometer for substances which are solid or highly viscous at room temperature. J. F. Weiler. diag Ind & Eng Chem Anal ed 14:634 Ag 15 '42

Two simple micro-burettes and an accurate wash-out pipette. I. H. Hadfield. diags Soc Chem Ind J 61:45-50 Mr '42

PIPING

Code for pressure piping. A. M. Houser. Refrig Eng 43:224-5 Ap '42

Damage to piping through enemy action; abstract. H. Gutteridge. Heating-Piping 14: sup137 N '42

Designing high-pressure vessels and piping. J. Marin. diags Machine Design 14:77-81+ My '42

Flow of solids in piping; practical data on pumping and piping sludges, muds and suspensions. H. E. Babbitt and D. H. Caldwell. bibliog diags Heating-Piping 14:423-7, 491-4 Jl-Ag '42

Installation requirements for head meters. H. S. Bean. diags Heating-Piping 13:744-6 D '41

Piping, industry's most important transportation system; diagram. Heating-Piping 14: 290-1 My '42

Piping; ten important pointers on valve installation and maintenance. F. C. Ernst. Heat & Ven 39:25-7 Ap '42

Practical piping problems; importance of safety and economy. W. H. Wilson. Heating-Piping 14:496 Ag '42

Pumps, valves and fittings, all may constitute bottlenecks; handling fluids for processing operations especially in manufacture of rayon and synthetic yarns. il Rayon 23: 297-300 My '42

PIPING—*Continued*

Special school prepares piping draftsmen. il Pet Eng 13:140 Ag '42

Valves; their selection and application. F. E. Davenport. il Pet Eng 13:62+ D '41

Welding of piping. A. N. Kugler. il diags Heat & Ven 39:55-8 My; 51-4 Je; 59-63 Jl '42

See also

Air pipes	Pipes
Oil pipes	Plumbing
Pipe fitting	Ships—Piping

Identification

Identification scheme for piping systems; reference data. diag Heat & Ven 39:42a-42b S '42

PIPING (power plants)

Code for pressure piping. S. Crocker; A. Iddles. il diags Heating-Piping 14:1-5, 101-5 Ja-F '42

Draining turbine extraction piping. S. H. Coleman. diag Power Pl Eng 46:91-2 Ag '42

Fabrication of carbon-molybdenum piping for high-temperature service. R. W. Emerson. bibliog il Am Soc T M Proc 41:579-604; Discussion. 605-7 '41

How to anchor pipe hangers in concrete. A. H. Korn. diags Power 86:720-2 O '42

Inspection of piping supports. diags Power Pl Eng 46:82-4 Ag '42

Piping increased turbine backpressure. C. R. Anderson. Power 86:270-1 Ap '42

Practical piping problems. W. H. Wilson. Heating-Piping 14:118 F '42

Quick changeover of large piping. W. F. Cox. diags Power 86:732 O '42

Steam and its place in making paper; piping and accessories are important. R. G. Edwards. Pulp & Pa of Can 42:777-80 D '41

TVA's Watts Bar steam plant augments hydro power for war production; high pressure steam piping. H. J. Petersen. il diags Heating-Piping 14:283-6 My '42

X-ray fingerprints scale deposits. C. E. Imhoff and L. A. Burkardt. il Power 86:10-12 Ja '42

Vibration

Vibration in power station steam pipework. F. J. Cowlin. Inst Mech Eng J & Proc 147:Proc 69-72 My '42

Welding

Braces relieve stresses in welded joints. C. C. Lynde. il Power 86:50 Ja '42

Code for pressure piping. L. Skog. diags Heating-Piping 14:357-60 Je '42

Flame preheating and stress relieving arc-welded high-pressure pipe lines; use of oxyacetylene and propane. P. T. Onderdonk and W. Peterson. il diags Welding J 21:96-101 F '42

High-pressure piping. H. J. Irrgang, jr. il Welding J 21:610-12 S '42

Recent welded piping installations show value of new techniques. G. G. Landis. il Welding J 21:329-30 My '42

TVA's Watts Bar steam plant augments hydro power for war production; high pressure steam piping. H. J. Petersen. diag Heating-Piping 14:285-6 My '42

Tensile-impact resistance of carbon-molybdenum welds at elevated temperatures. O. H. Henry and M. A. Cordovi. il diags Welding J 21:sup416-20 S '42

PIPING (refrigerating plants)

Code for pressure piping; refrigeration piping systems. A. B. Stickney. il Heating-Piping 14:217-19 Ap '42

Insulation of cold pipe lines; data sheet. diags Heating-Piping 14:415 Jl '42

Steam valves for ammonia? Power Pl Eng 46:98+ Ag '42

PIQUE

Adding variety to pique fabrics. T. R. Hart. il Textile World 92:70-1 Jl '42

PISÉ

Rammed earth offers housing solution. il Eng N 129:600-1 O 29 '42

PISTON rings

Engineering liaison and production control. D. U. Kudlich. il diags S A E J 50:170-2 My '42

How and when to pin piston rings. Power 86:751 O '42

Piston ring blow-by; some experiments on high-speed petrol engines. C. G. Williams and H. A. Young. diags Automobile Eng 32:283-8 Jl '42

Piston rings for oil engines. Automobile Eng 32:369-70 S '42

Recent developments in piston rings for high-speed Diesels. J. O. Holls and T. C. Jarrett. il Diesel Power 20:650 Ag '42

Use of expander-type rings to prevent excessive cylinder reconditioning; abstract. P. E. Friend. S A E J 50:sup35+; Discussion. sup 57-8 N '42

PISTON rods

Steam engine piston rod breaks. il Locomotive 44:114-15 O '42

PISTONS

From aluminum to iron pistons. diags Product Eng 13:186 Ap '42

Instructions for servicing AB self-oiler pistons. diags Ry Mech Eng 116:395-6 S '42

New methods for the evaluation and recording of piston skirt deposits; abstract. H. R. Luck, T. A. Rogers and A. G. Cottaneo. Oil & Gas J 41:39 O 29 '42

New slotted-skirt piston. diags Automobile Eng 32:90 Mr '42

Piston lubrication; abstract. R. Poppinge. Automobile Eng 32:324 Ag '42

Piston maintenance by bronze-surfacing. il Diesel Power 20:597 Jl '42

Piston temperatures; their measurement in petrol and Diesel power units. Automobile Eng 32:168 Ap '42

Problems of changing from aluminum to cast-iron pistons. W. S. James. diags S A E J 50:177-87 My '42; Excerpt. Automotive & Aviation Ind 86:20 F 1 '42

Slotted-skirt internal-combustion engine pistons. Engineering 153:86-7 Ja 30 '42

Manufacture

Aluminium pistons; details of some special casting alloys. Automobile Eng 32:242 Je '42

German recovery of light metal scrap in two piston manufacturing plants. il Iron Age 149:54-8 Je 4 '42

Hydraulic control speeds milling of aircraft pistons. W. C. Oberem. il diags Product Eng 13:507-10 S '42

Piston manufacture; Specialloid, ltd. il Automobile Eng 32:137-48 Ap '42

PISTOPHONE

Design of air-blast meter and calibrating equipment. A. T. Ireland. bibliog il diags U S Bur Mines Tech Pa 635:1-20; pa 10c Supt. of doc. '42

PITCAIRN, Norman Bruce, 1881-

Pitcairn elected president of Wabash. por Ry Age 112:1075+ My 30 '42

PITCH

Extinguisher for magnesium fires. Eng N 128:929 Je 4 '42

Hardwood pitch extender; K.E.M. Mod Plastics 20:112 N '42

Petroleum pitch is found effective in combating magnesium fires. H. R. Brown, I. Hartmann and H. P. Greenwald. Nat Pet N 34 pt 2:R307+ S 30 '42

Pitch black; coal tar pitch for extinction of magnesium fires and incendiary bombs. il Safety Eng 83:17-18 F '42

Pitch extinguishes magnesium fires. R. R. Sayers. Foundry 70:96 Mr '42

Pitch for extinguishing incendiary fires. H. R. Brown and I. Hartmann. Weekly Underw 147:799-800 O 3 '42

Pitch the best incendiary extinguisher. Science 95:sup9-10 Ja 23 '42

Proposed specifications for coal-tar pitch for steep built-up roofs, dampproofing, and waterproofing. Am Soc T M Proc 41:387-8 '41

PITCH as fuel
Liquid pitch fuel. E. B. Davies. diags Engineering 152:398-400 N 14 '41; Same cond. Chem Age (Lond) 45:267-9 N 22 '41

PITNEY-BOWES postage meter company
Growth stocks and the investor. E. N. Chapman. Barron's 22:13 Ja 19 '42

PITOT tube
Characteristics of double pitot tubes. F. R. Ingram, E. Diez-Canseco and L. Silverman. bibliog diags Heating-Piping 14:702-7 N '42

PITTSBURGH
See also
Labor and laboring classes—Pittsburgh

Industries

Report: Pittsburgh at capacity. Fortune 24: 38+ D '41

Libraries

Special files in the Technology department of the Carnegie library of Pittsburgh. M. J. Griffin. Special Lib 33:23-4 Ja '42

Rapid transit

PCC car operating results in Pittsburgh; with cost data. W. J. Clardy. il map Elec Eng 61:Trans 214-17 Ap '42

Water supply

Water waste prevention and correction in Pittsburgh. H. E. Beckwith. Am Water Works Assn J 34:1523-6 O '42

PITTSBURGH and West Virginia railway
Boom aids Pittsburgh & West Virginia. A. Jansen. Barron's 22:19-20 Jl 27 '42

PITTSBURGH plate glass company
Companies with long dividend records. J. C. Clifford. il Mag of Wall St 70:645 O 3 '42
Development of the American ceramic industry. Cer Ind 38:25 Ja '42
Earnings, 1938-1941. Comm & Fin Chr 155:1415 Ap 6 '42
Subsidiary develops new product. Comm & Fin Chr 156:84 Jl 6 '42

PITTSBURGH railways company
Plan is approved by PUC. Comm & Fin Chr 155:366 Ja 24 '42
Privately placed car trust certificates redeemed due to WPB ruling on new equipment. Comm & Fin Chr 156:1058 S 21 '42
State commission rejects SEC plan. Comm & Fin Chr 154:1303-4 D 2 '41

PITTSBURGH screw and bolt corporation
Favored stocks priced from $1 to $10. Mag of Wall St Manual p10 Ap '42

PITTSBURGH steel company
Annual report. Comm & Fin Chr 155:1415 Ap 6 '42
Bonds offered. Comm & Fin Chr 155:266-7 Ja 17 '42
Exchange plan extended. Comm & Fin Chr 156:868 S 7 '42

PITTSBURGH stock exchange
Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

PITTSBURGH university
University of Pittsburgh gives war training courses. Blast F & Steel Pl 30:1155 O '42

PITTSBURGH university. Mellon institute of industrial research
Investigations at Mellon institute 1941-42. il Chem & Eng N 20:443-61 Ap 10 '42
Mellon researches expanded. Product Eng 13:297 My '42
Researches, 1941-42. W. A. Hamor. Science 95:458-61 My 1 '42

PITTSTON company
Consolidation plans progress. Comm & Fin Chr 156:437 Ag 3 '42
To merge United States distributing corp. and recapitalize. Comm & Fin Chr 156: 1612 N 2 '42

PITUITARY body
Gland control; new discoveries; abstract. H. M. Evans. Science 95:sup10+ Mr 27 '42
Physico-chemical characteristics of the interstitial cell stimulating hormone from sheep pituitary glands. C. H. Li, M. E. Simpson and H. M. Evans. bibliog il Am Chem Soc J 64:367-9 F '42
Solubility of anterior pituitary gonadotropin in alkali halide solutions. D. O. Rosbash, C. A. Elden and M. D. F. Nutting. Science 96:70 Jl 17 '42

PIVOTS
Pivot bearing design. J. H. Goss. diags Product Eng 12:662-4 D '41

PLACEMENT of workers. See Employment agencies; Employment systems

PLACEMENT service of colleges. See Colleges and universities—Placement service

PLACER mining. See Gold mines and mining—Placer mining; Hydraulic mining

PLAGUE
Plague infection in California. Pub Health Rep 57:1189 Ag 7 '42
Plague infection reported in the United States during 1941. Pub Health Rep 57: 903-5 Je 12 '42
Role of the burrowing owl and the sticktight flea in the spread of plague. C. M. Wheeler, J. R. Douglas and F. C. Evans. Science 94:560-1 D 12 '41

PLAIN Dealer, Cleveland
Plain Dealer; one hundred years in Cleveland. A. H. Shaw. 402p $4 Knopf '42

PLANETARY gearing. See Gearing, Planetary

PLANETS
Search for a new planet; abstract. R. S. Richardson. Science 95:sup8 My 29 '42
See also
Earth
Life in other worlds

Temperature and radiation

Temperature estimates of the planet Mars, 1924 and 1926. W. W. Coblentz. bibliog J Research Nat Bur Stand 28:297-309 Mr '42

PLANING machines
Armor plate planer made of structural shapes. il Iron Age 150:51 S 3 '42
Carbide tipped planer tools. A. Havens. Am Mach 86:349-50 Ap 16 '42
Economies of improved planer drives. Mach 48:128 F '42
Machines to build machines; lathes and planers forerunners of machine tools of today. L. L. Thwing. il diags Tech R 44: 175-7+ F '42
Pit planers for the navy; for machining armor plate. il Iron Age 149:58-9 F 12 '42
Planers by Fisher. il Iron Age 148:73 D 18 '41
Planing tool for undercuts. F. H. Colvin. diag Am Mach 86:58 F 5 '42
Ward, Haggas and Smith openside planing machine. il Automobile Eng 32:13-14 Ja '42

PLANKTON
Chlorine-ammonia treatment of water; use of copper, chlorine and ammonia in plankton control. C. K. Calvert. Am Water Works Assn J 33:2108-12 D '41
Effects of distillery wastes and waters on the microscopic flora and fauna of a small creek. J. B. Lackey. bibliog Pub Health Rep 57:253-60 F 20 '42
Limnological studies of western Lake Erie; abstract. D. C. Chandler. Am Water Works Assn J 34:767 My '42
Significance of plankton in relation to the sanitary condition of streams; abstract. J. B. Lackey. Am Water Works Assn J 34: 1699 N '42

PLANNING
Approach to postwar planning. R. P. Gustin and S. A. Holme. Harvard Business R 20 no 4:459-72 [Jl] '42
How Keasbey & Mattison utilizes sales department in war effort; operation of information flow program and priority department. W. S. Acuff, jr. Ind Marketing 27:17+ Je '42

PLANNING—*Continued*

How to organize and conduct postwar planning activities. S. A. Holme. il Ind Marketing 27:19-22 O '42

How we mobilized for peace; imaginary speech. W. Whitmore. Am Business 11:24-5+ N '41

Industry's fascinating problem; General Electric organizes planning committee. S. M. Crocker. Ptr Ink 197:41-2, 44-5, 48 N 28 '41

Luxury goods, too, must be closely controlled; production planning. Helena Rubinstein, inc. H. F. Waterhouse. il Factory Management 99:73-6+ D '41

Planning production details; Square D company, Milwaukee. W. S. Olin. Factory Management 100:123-4+ Ag '42

Post-war planning needs grand strategy and task forces. C. E. Wilson. il Dun's R 50:5-8+ S '42

Progress in controlling production. J. A. Willard. Advanced Management 7:25-6 Ja-Mr '42

Report on NIAA postwar planning activity. W. B. Spooner, jr. Ind Marketing 27:33-4+ Ag '42

Work planning in government. A. Solem, ed. Advanced Management 7:133-40, 180-4 Jl-S, O-D '42

Work planning in industry [development and promotion of a product principle]. J. K. Louden. Advanced Management 7:98-101+ Jl-S '42

See also

Advertising—Planning
Budget, Business
City planning
Economic planning
Factory management
Land utilization
Regional planning
Schedules

PLANOFLEX

Physical methods for evaluating the hand of fabrics and for determining the effects of certain textile finishing processes; planoflex, friction-meter and compression-meter. E. C. Dreby. bibliog il diags Am Dyestuff Rep 31:497-504 O 12 '42

Planoflex; a simple device for evaluating the pliability of fabrics. E. C. Dreby. bibliog il Am Dyestuff Rep 30:651-4, 665-6 N 24 '41; Same. J Research Nat Bur Stand 27:469-77, pl 1-2 N '41

PLANT breeding

Breeding disease-resistant crops. F. N. Briggs. Science 96:60 Jl 17 '42

Cotton-breeding research pays off. M. G. Barnwell. il Textile World 92:73-6 My '42

Endosperm as a barrier to interspecific hybridization in flowering plants. D. C. Cooper and R. A. Brink. bibliog Science 95:75-6 Ja 16 '42

How plant breeding programs complicate plant disease problems. N. E. Stevens. bibliog Science 95:313-16 Mr 27 '42

PLANT cells and tissues

Effect of Ca and other divalent ions on the accumulation of monovalent ions by barley root cells. F. G. Viets, jr. Science 95:486-7 My 8 '42

Extraction of ascorbic acid from plant tissues. W. B. Davis. Ind & Eng Chem 34:217-18 F '42

Regeneration, development and genotype. C. E. Allen. Science 95:365-9 Ap 10 '42

Vegetable dynamicks and plant tissue cultures. P. R. White. Science 95:520-2 My 22 '42

See also

Galls (botany)
Photosynthesis

PLANT growth

Effects of oxygen on respiration, fermentation and growth in wheat and rice. D. L. Taylor. Science 95:129-30 Ja 30 '42

Growth of plants; abstract. P. R. White. Science 96:sup10+ S 4 '42

Plagiotropic habit of growth in Norway spruce. C. G. Deuber. Science 95:301 Mr 20 '42

Vitamin B_6 and growth of excised tomato roots in agar culture. D. Day. bibliog Science 94:468-9 N 14 '41

See also

Fertilizers

PLANT names, Popular

American plant names. W. N. Clute, comp. 3d ed 285p $3 W. N. Clute & co, 5257 Hinesley av, Indianapolis '40

Common names of plants, and their meanings. W. N. Clute. 2d ed 164p $3 Willard N. Clute & co, 5257 Hinesley av, Indianapolis '42

Standardized plant names. H. P. Kelsey and W. A. Dayton, eds. 2d ed 675p $10.50 J. Horace McFarland co, Harrisburg, Pa. '42

Standardized plant names. P. L. Ricker. Science 96:296-7 S 25 '42

PLANT propagation

Split hevea seedlings. Science 96:sup8 Ag 14 '42

PLANT viruses. See Viruses, Plant

PLANTAGO arenaria

Studies on seed mucilages; the seed mucilage of plantago arenaria. W. A. G. Nelson and E. G. V. Percival. Chem Soc J p58-61 Ja '42

PLANTS

See also

Botany
Dyes and dyeing—Natural dyes
Grasses
Hormones, Plant
Paleobotany
Rubber plants and planting
Weeds

Chemical analysis

Activation of dicalcium phosphate for the chromatographic determination of carotene. L. A. Moore. Ind & Eng Chem Anal ed 14:707-8 S 15 '42

Conductometric determination of ammonia; application to nitrogen distribution studies. R. H. Hendricks and others. bibliog diag Ind & Eng Chem Anal ed 14:23-6 Ja 15 '42

Determination of beta-carotene and neo-beta-carotene with the visual spectrophotometer. F. P. Zscheile and B. W. Beadle. Ind & Eng Chem Anal ed 14:633-4 Ag 15 '42

Determination of sugar in plant material; accurate and rapid methods for silage and root crops. D. J. Hiscox. Can Chem & Process Ind 26:496, 498+ Ag '42

Extraction and assay of nicotinic acid from animal and plant tissues; comparison of methods. V. H. Cheldelin and R. R. Williams. bibliog Ind & Eng Chem Anal ed 14:671-5 Ag 15 '42

Lipid fraction of lucerne leaf. H. S. Jefferies. Chem & Ind 61:324-5 Jl 25 '42

New technique for quantitative spectrographic analysis by the arc method. M. N. Thruston. Soc Chem Ind J 61:144-5 S '42

Rapid method for determining potassium in plant material; perchloric acid digestion and chloroplatinic acid precipitation. J. L. St John and M. C. Midgley. bibliog Ind & Eng Chem Anal ed 14:301-2 Ap 15 '42

Rapid photometric determination of ascorbic acid in plant materials. S. A. Morell. bibliog Ind & Eng Chem Anal ed 13:793-4 N 15 '41

Riboflavin estimation in fruits and vegetables. G. Mackinney and J. M. Sugihara. Am Chem Soc J 64:1980-1 Ag '42

Rubber analysis of plants in South Carolina. J. H. Mitchell, M. A. Rice and D. B. Roderick. Science 95:624-5 Je 19 '42

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

Studies on Argentine plants; identification and characterization of some alkaloids in fagara coco (Gill) Engl. V. Deulofeu, R. Labriola and J. De Langhe. Am Chem Soc J 64:2326-8 O '42

See also

Corn—Analysis
Feeding and feeding stuffs—Analysis

PLANTS—Chemical analysis—*Continued*

Bibliography

Bibliography of literature on analyses of leaf and other plant tissues, with special reference to content of mineral nutrients, 1935-1940. C. M. Schmidt and D. H. Jameson. 156p Am. potash inst, 1155 16th st, NW, Washington, D.C. '41

Diseases and pests

American phytopathological society; summer meeting theme, role of the plant pathologist in the war program. Science 96:207-8 Ag 28 '42

How plant breeding programs complicate plant disease problems. N. E. Stevens. bibliog Science 95:313-16 Mr 27 '42

Nature and prevention of plant diseases. K. S. Chester. 584p $4.50 Blakiston '42

Phytopathology; thirty year index (v. 1-30, 1911-1940). F. V. Rand, ed. 335p $5 Am. phytopathological soc, Lancaster, Pa. '41

See also

Galls (botany)

Tobacco—Diseases and pests

Mineral content

Mineral pattern of stems from vegetative and flowering plants as determined by microincineration. B. E. Struckmeyer. Science 96:346 O 9 '42

Nutrition

Chemical elements needed for plants; abstract. D. R. Hoagland. Science 95:sup8 Je 26 '42

See also

Plant growth

Respiration

Respiration of elodea. R. R. Ronkin and S. C. Brooks. Science 95:231-2 F 27 '42

Test-tube spiral absorption vessel plant respiration measurements. R. E. Girton. diag Science 95:25-6 Ja 2 '42

Rubber content

Rubber analysis of plants in South Carolina J. H. Mitchell, M. A. Rice and D. B. Roderick. Science 95:624-5 Je 19 '42

Selenium content

Absorption of selenium by corn from astragalus extracts and solutions containing proteins. S. F. Trelease, S. S. Greenfield and A. A. DiSomma. Science 96:234-5 S 4 '42

Soilless culture

Chemical gardening; latest developments in soilless culture of plants. D. R. Matlin. 159p bibliog(p154-6) $2.25 Chemical pub. co. '42

Soilless gardening; growing plants with roots in atmosphere saturated with water vapor; abstract. W. Carter. Science 95:sup 8+ My 15 '42

PLANTS, Effect of chlorine on

Chlorine in water does not injure plants. Eng N 127:100 N 20 '41

PLANTS, Effect of colchicine on

Co-operative research project; a report on experiments with colchicine by laymen scientists during 1941. O. J. Eigsti and B. Tenney. 32p pa 35c Univ. of Oklahoma press, Norman '42

PLANTS, Effect of light on

Synthesis of ascorbic acid in excised tomato roots. M. E. Reid and W. J. Robbins. bibliog Science 95:632-3 Je 19 '42

PLANTS, Effect of temperature on

Apparatus for the production of artificial frost injury in the branches of living trees. R. A. Studhalter and W. S. Glock. diag Science 96:165 Ag 14 '42

Frost killing and hardiness of plants, a critical review. J. Levitt. 211p bibliog(p187-211) $3 Burgess pub. co, Minneapolis '41

Thermoperiodism; experiments of F. Wendt. F. Thone. Science 95:sup10 My 1 '42

PLANTS, Flowering of

Control of flowering with phytohormones. H. E. Clark and K. R. Kerns. Science 95:536-7 My 22 '42

PLANTS, Geographical distribution of. See Botany—Geographical distribution

PLASKETT, John Stanley, 1865-1941

Sketch. B. J. Bok. Science 94:453-5 N 14 '41

PLASKON

Plaskon opens new laboratory, Toledo, Ohio. il Mod Plastics 19:92, 94+ Ap '42

Plastics competition award to Cochrane physicians' supplies, inc.; surgical window. il Mod Plastics 19:140-1 N '41

Plotting the course with compact, lightweight sextants. il Mod Plastics 19:39 My '42

PLASMOCHIN

Atabrine, plasmochin admitted to U.S.P. Oil Paint & Drug Rep 141:7+ Je 29 '42

PLASMODIUM

Antiplasmodial action and chemical constitution; carbinolamines derived from 6-methoxyquinoline. H. King and T. S. Work. Chem Soc J p401-4 Je '42

Antiplasmodial action and chemical constitution; compounds related to lepidylamine. T. S. Work. Chem Soc J p426-9 Jl '42

PLASTER and plastering

Increasing lime plasticity by electro-osmosis. F. C. Mathers and H. S. Wilson. Rock Prod 45:73-4 Mr '42

See also

Cement
Concrete
Gypsum
Mortar

Manufacture

Home repair and maintenance; plastered walls and ceilings. diag Consumers' Research Bul 9:12-14 Ja '42

Strong plaster for paperless wallboard; new process of gypsum manufacture involves cooking raw gypsum in Epsom salts solution. W. A. Cunningham. flow sheet il Rock Prod 45:50-3 Ap '42

Standards

Specification standards for government work; lathing and plastering. H. R. Sleeper. Arch Rec 91:63 Mr '42

PLASTER of Paris

Plaster patterns for the foundry. H. Plucknett. il diags Iron Age 149:42-5 My 28 '42

PLASTIC coated fibers

Coating extruded fibers. il Mod Plastics 19:55+ My '42

PLASTIC industries

Acrylic resins firms indicted as trust. Oil Paint & Drug Rep 142:3+ S 14 '42

Advances in plastics during 1941; general review. G. M. Kline. il Mod Plastics 19:57-9 bibliog(89 references, p58-9) Ja '42

Advice to the molder; obtaining government contracts. L. T. Barnette. Mod Plastics 19:34+ D '41

Between the lines; defense and plastics. K. Tator. flow diags Chem Ind 49:802-4 D '41

Campaign for war business; Cruver manufacturing company, Chicago. il Mod Plastics 20:37-41 S '42

Future of the plastics industry. R. P. Chew. il Chem Ind 51:214-19 Ag '42

Industry prepares for war rôle; annual spring meeting of Society of the plastics industry. il Mod Plastics 19:44a-44l My '42

Planning postwar applications. C. Sundberg and M. Ferar. il diag Mod Plastics 19:52-3+ Ag '42

Plastics and their dies. A. J. Frommelt. Can Chem & Process Ind 25:653 D '41

Plastics firms deny trust charges. Oil Paint & Drug Rep 142:7 O 12 '42

Plastics industry and defense; priorities. Mod Plastics 19:34a-34b D '41

Plastics, 1941. Chem & Met Eng 49:90-1+ F '42

Plastics problems discussed with WPB. Oil Paint & Drug Rep 142:3+ Ag 17 '42

Portrait of an industry; a survey of its position at onset of World war II. Mod Plastics 19:33-9+ Ja '42

PLASTIC industries—*Continued*

Seven million dollar itch; protective ointments relieve industrial dermatitis in plastic industries. J. Stifter. Mod Plastics 19:51 D '41

Some views on plastics in wartime; government contracts. A. Philipson. Mod Plastics 19:44-5+ Ap '42

WPB plastics molding machinery order. Mod Plastics 19:86a-86b Jl '42

War production board thermoplastics order, M-154. Mod Plastics 19:64a-64d Jl '42

See also

Clay industries

Molded products

Resinous products

Advertising

Post-war planning begins right here. D. V. Baker. il Ptr Ink 200:22, 24+ S 18 '42

This plastic age, new motion picture. il Mod Plastics 19:59+ My '42

Directories

Custom molders of plastics; directory. Machine Design 14:186, 188, 190 O '42

Directory of trade names and suppliers. Electronics 15:31+ Jl '42

Exhibitions

America's modern plastics exposition; department store show tours country. il Mod Plastics 19:86 D '41

Award winners shown in Washington. il Mod Plastics 19:48-50 D '41

Sixth annual Modern Plastics competition, 1941. il Mod Plastics 19:52-173 N '41

Statistics

Charts showing plastics production, etc., based on Society of the plastics industry statistical reports. Mod Plastics 19:44L My '42

Plastics meeting in Washington. G. Holmgren. Mod Plastics 19:90, 92+ F '42

Plastics statistics for 1941. Mod Plastics 20:86-7 S '42

Great Britain

British plastics federation, ltd.; refutation of rumor that non-essential goods are being produced. Mod Plastics 19:96+ D '41

Plastics in 1941. H. Barron. il Chem Age (Lond) 46:24-6 Ja 10 '42

India

Indian resins; the basis of a plastics industry. Chem Age (Lond) 47:295-6 O 3 '42

PLASTIC materials

Abstracts of papers to be presented at A.C.S. meeting at Memphis, April 20-24. Paint Oil & Chem R 104:18-22 Ap 9 '42

Advances in plastics during 1941; general review. G. M. Kline. il Mod Plastics 19:57-9 bibliog(89 references, p58-9) Ja '42

Advances in plastics during 1941; thermoplastics. J. M. De Bell. bibliog il Mod Plastics 19:65-6 Ja '42

Advances in rubber and plastics during 1941. il Mech Eng 64:295-300 bibliog(89 titles, p299-300) Ap '42

Aircraft program of the plastics industry. W. T. Cruse. il Aero Digest 41:226, 228, 231 Jl '42

Army's auxiliary booster tube; phenolic woodflour. il diags Mod Plastics 20:65-6+ O '42

Artillery ammunition—a challenge! F. A. Marshall. il Mod Plastics 19:46-7+ Je '42

Billion dollar business. il Mod Plastics 19:50-1 Jl '42

Brief description of the commonly used plastics and their origin. G. K. Scribner, comp. 4th rev ed 53p pa 75c Boonton molding co, Boonton, N.J. '41

Chemical structure of plastics. C. A. Redfarn. bibliog Chem & Ind 61:201-4 My 2 '42

Choice of plastic materials as affected by fabrication. H. C. Hillman. il diags Product Eng 13:584-7 O '42

Circular and band saws for plastics; reference book sheet. Am Mach 86:353 Ap 16 '42

Coal as a source material for the plastics industry. R. L. Wakeman and B. H. Weil. Ind & Eng Chem 34:1387-93 N '42; Abstract. Coal Age 47:156-7 O '42

Compression molding of plastics. J. Delmonte. il Rubber Age 50:117-20 N '41

Constitution of plastics; discussion. Chem & Ind 60:866-7 D 6 '41

Cottonseed meal in phenolic plastics. F. Rosenthal. bibliog il Ind & Eng Chem 34:1154-7 O '42

Development of plastic drill jigs and forming dies in aircraft tooling. il Aero Digest 41:236+ Jl '42

Drawn rigid plastic containers and displays. il Mod Packaging 15:83-4, 86 Ja '42

Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34:764-70 Je '42

Elementary plastics processes. A. Kosloff. 26p bibliog(p26) 85c Albert Kosloff, 240 W. North av, Chicago '42

Engineer looks at plastics. J. R. Townsend. Mod Plastics 19:56-7+ F '42

Ethyl rubber; new cotton-alcohol plastics developed by Hercules powder co. Business Week p53-5 Ag 29 '42

Extruded tubing in war production; specific uses. J. E. Pierce. il diag Mod Plastics 19:55-6+ Ag '42

Extruding vinylidene chloride. il diag Mod Plastics 19:33-6, 122 Ag '42

Eyes have it; personality-styled frames from cellulose nitrate sheet stock. E. J. Young. il Mod Plastics 19:46+ Ja '42

Finding facts and figures; use of plastics in VISIrecord system. il Mod Plastics 19:36-7, 98+ Ap '42

General properties of plastics; tabulation. Refrig Eng 44:319 N '42

Grinding and machining cast resins. C. E. Holmes. diags Mod Plastics 20:76-7+ S '42

High gloss liquid plastic used in printing process. il Sci Am 166:66 F '42

Identification tags made of plastic. B. Levy. il Elec W 117:1696, 2078 My 16, Je 13 '42

Industrial research in the United States during 1941. W. A. Hamor. il diag Chem & Eng N 20:41-4 Ja 10 '42

Injection molding of plastics. J. Delmonte. il Rubber Age 50:271-4 Ja '42

Intermolecular forces and mechanical behavior of high polymers. H. Mark. bibliog(73 references) Ind & Eng Chem 34:1343-8 N '42

Jigs and dies from cast plastics; Lockheed and Vega aircraft corporations. il Am Mach 86:731-8 Jl 9 '42

Ketone plastics; a study of methyl isopropenyl ketone. B. Rutovsk. Chem Age (Lond) 47:323 O 10 '42

Lignin plastics development. Mod Plastics 19:46-7 My '42

Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

Many defense uses for plastics. Barron's 21:5 N 17 '41

Mass production of plastic teeth. H. M. Justi, jr. il Mod Plastics 19:44-5+ D '41

Measure for measure; lever and multiple float type oil gages. il Mod Plastics 19:49 Ja '42

Naftolen, its use in plastics and coatings. L. Bornstein and F. Rostler. il Mod Plastics 19:72-4+ Ap '42

New plastic combines advantages of molded and laminated types. Mach 48:120 My '42

New plastic product may solve container closure problem. Cer Ind 39:28 Jl '42

New plastic tube; Bensel-Brice co. tubes to be made available to all toothpaste manufacturers. Business Week p57 F 21 '42

Office equipment, modern style; drawer pulls and handles, thumb latches, knobs and label holders. il Mod Plastics 19:58 Je '42

Office record speaks. il Mod Plastics 19:59+ Ag '42

One-piece assembly device. il diags Mod Plastics 20:78+ O '42

Ordnance department plastic developments. E. T. McBride. Chem & Eng N 20:849-50 Jl 10 '42

PLASTIC materials—*Continued*

Organo silicon plastics. Can Chem & Process Ind 26:466 Ag '42

Paper mill now manufacturing new plastic. Paper Tr J 115:9 Ag 20 '42

Part plastics are playing in the British war program and our interest in American plastics program. H. Self. Mod Plastics 19: 44d-44f My '42

Plastic assembly jigs and fixtures. W. D. Lewis. il Iron Age 150:78-81 O 1 '42

Plastic collapsible tubes. il Mod Packaging 16:31-3 N '42

Plastic drill jigs and forming dies for aircraft tooling. il Automotive & Aviation Ind 87:36-41+ Jl 1 '42

Plastic molding. D. A. Dearle. 131p $4 Chemical pub. co. '41

Plastic parts on airplanes; diagram. Dun's R 49:50 N '41

Plastic progress; abstract. A. E. Byrne. Can Chem & Process Ind 26:372 Je '42

Plastic structures in building construction. V. E. Yarsley. Electrician 127:318-19 D 5 '41

Plastic tooling at Lockheed and Vega. C. O. Herb. il diags Mach 48:150-9 Jl '42

Plastic tubing, a war baby; new material with many possibilities in heating, piping and air conditioning. C. B. Branch and D. L. Gibb. il Heating-Piping 14:353-4 Je '42

Plastic used for shoes repairs foundry patterns; Celastic. Steel 111:98 O 12 '42

Plastic wedge compensator. C. T. Piecewicz. R Sci Instr 13:296-7 Jl '42

Plastic white lines for roads. W. H. Glanville. Can Eng R & B 79:48 D '41

Plastics. J. H. DuBois. 295p $3 Am. technical soc, Drexel av. at 58th st, Chicago '42

Plastics. V. E. Yarsley. Electrician 128:288-9 Mr 27 '42

Plastics; a new material of construction. C. Chapman. Engineer 173:353-5 Ap 24 '42

Plastics and other nonmetallics listed by tradenames and by producers. Machine Design 14:152-64 O '42

Plastics and the time factor. H. Leaderman. Am Dyestuff Rep 31:227-30, 246-8 My 11 '42

Plastics and their application to engineering. J. Prior. Engineering 154:324-5 O 23 '42

Plastics and their possible applications. V. E. Yarsley. Electrician 128:457-8 My 8 '42

Plastics and transparent materials used for all kinds of parts in war equipment. il Mod Packaging 15:40-1 My '42

Plastics as engineering materials. A. Caress. Metals & Alloys 15:876+ My '42

Plastics as engineering materials; physical properties; types, trade names and manufacturers. Chem & Met Eng 49:100-3 S '42

Plastics as industrial materials. G. C. Gress. il Refrig Eng 43:7-11+ Ja '42

Plastics at Memphis American chemical society meeting; abstracts of papers. Mod Plastics 19:72, 100 My '42

Plastics; electrical applications. V. E. Yarsley. Electrician 128:623-4 Je 19 '42

Plastics for industrial use; an engineering handbook of materials and methods. J. Sasso. 229p $2.50 McGraw-Hill '42

Plastics from agricultural materials. O. R. Sweeney and L. K. Arnold. bibliog il diags Iowa Eng Exp Sta (Ames) Bul 154:1-52 '42

Plastics from hydrolyzed lignocellulose. R. Katzen, A. O. Reynolds and D. F. Othmer. flow sheet bibliog il Am Inst Chem Eng Trans 38:735-60 Ag '42; Same. Mod Plastics 20:91-7+ O '42; Excerpts. Chem & Met Eng 49:161-2 Jl '42; Same. Can Chem & Process Ind 26:393 Jl '42

Plastics in aircraft tooling. il Iron Age 150: 49-53 Jl 2 '42

Plastics in British aircraft. Mod Plastics 19: 82+ Ja '42

Plastics in defense. D. W. Hoppock. Product Eng 13:47-8 Ja '42

Plastics in engineering. J. Delmonte. 2d ed $7.50 601p Penton pub. co. '42

Plastics in 1941. H. Barron. il Chem Age (Lond) 46:24-6 Ja 10 '42

Plastics in production; improved thermosetting, casting resin; Baker plastic. K. J. Leeg. diags Iron Age 149:42-5 F 12 '42

Plastics in the electronics field; with directory of trade names and suppliers. J. Sasso. il Electronics 15:26-31+ Jl '42

Plastics in war; war production conference, American society of tool engineers. Iron Age 150:66 O 22 '42

Plastics invade the waterworks field; Oshawa firm installs equipment to make tubing and predicts plastic service pipe and water mains. il Water & Sewage 80:22-3+ S '42

Plastics meeting in Washington. G. Holmgren. Mod Plastics 19:90, 92+ F '42

Plastics parade; U.S. short of most war-needed compounds. Business Week p68+ N 7 '42

Plastics play vital role in graphic arts; wider use for synthetics seen. H. A. Levey. Inland Ptr 108:68-9 N '41

Plastics research. W. Gallay. il Can Chem & Process Ind 25:635-8 D '41

Plastics used as substitute materials in wartime refinery maintenance. Nat Pet N 34 pt 2:R301-4 S 30 '42

Polystyrene properties. Product Eng 12:665-6 D '41

Powder and plastics. C. A. Higgins. Mod Plastics 19:44g-44i My '42

Product development. Published in monthly numbers of Modern plastics

Progress in high polymer plastics. H. Mark and others. bibliog il diags Ind & Eng Chem 34:449-79 Ap '42

Properties of plastics used by the aviation industry; tabulation. Aero Digest 41:250, 252 Jl '42

Properties of thermosetting materials; reference book sheets. H. C. Hillman. Product Eng 13:545-6 S '42

Protein-aldehyde plastics; combination of formaldehyde with acid casein and with rennet casein. D. C. Carpenter and F. E. Lovelace. bibliog il Ind & Eng Chem 34: 759-63 Je '42

Rapid determination of the specific gravity of plastic materials. H. F. Palmer and W. E. Jones. il diag Ind & Eng Chem Anal ed 13:864-7 D 15 '41

Relieving tooling bottlenecks with plastics; Formrite method of making dies, jigs and fixtures. L. Weiss. il diags Aviation 41: 114-21 O '42

Rugged and resilient; tough, oil-proof plastic materials form sturdy, efficient tools used in aircraft manufacture, and protect fragile parts. E. F. Lougee. il Mod Plastics 19: 44+ Ag '42

Saflex plastic hose. Rayon 23:551 S '42

Seeing is believing; Hollywood using improved plastic screens for process stages. K. Saile. il Mod Plastics 20:58+ O '42

Significant replacements by plastics. il diags Product Eng 13:224-5 Ap '42

Signs for the duration, and after; name plates, markers, etc. il Mod Plastics 19:51-4 Je '42

Soft, rubber-like plastics; cellulose derivatives compounded with chemical and oil plasticizers. D. R. Wiggam. Mod Plastics 19:50-1 Ag '42; Same. Rubber Age 51:381-2 Ag '42

Some observations on the determination of mechanical and flow properties of industrial plastics; abstract and discussion. E. G. Couzens and W. G. Wearmouth. Chem & Ind 60:910-11 D 27 '41

Some views on plastics in wartime; papers at plastics industry conference, Washington, D.C. March 2. il Mod Plastics 19:39-45+ Ap '42

Structural plastics in aviation. J. B. Johnson. il diags Mod Plastics 19:179-81+ N '41; Same cond. Aviation 41:103-4+ F '42

Substitute for metal printing plates; plastic lithographic mats, Lithomat and Photomat. Pulp & Pa of Can 43:806 S '42

Substitutes for rubber and silk; Colonial V plastics. E. Engel and J. Steel. Aero Digest 40:212, 214 My '42

Supply situation of plastic materials. F. Carman. Mod Plastics 20:45-8 N '42

PLASTIC materials—*Continued*

Sweeping in thermoplastics; achievements in injection molded vacuum cleaner housings and accessories. H. R. Husted. il Mod Plastics 19:40-3 My '42

Synthetic resins and plastics. H. A. Neville. bibliog il J Chem Educ 19:9-14 Ja '42

Technical problems of applying plastics and allied products in naval aircraft. H. Sang. Mod Plastics 19:44a-44c My '42

To replace copper; thermoplastic tubing is chemically resistant. Sci Am 166:280 Je '42

Tooling for aircraft production. il Mod Plastics 19:33-7, 104, 106+ Jl '42

Transition temperature and cubical expansion of plastic materials. F. E. Wiley. bibliog il diag Ind & Eng Chem 34:1052-6 S '42

Urea plastics in lighting fixtures. R. B. Barnes and C. R. Stock. il diag Mod Plastics 19:61-5, 96, 98+ F '42; Same. Illum Eng 37:89-102 F '42

Use of plastics and allied materials in aircraft construction. G. W. DeBell. J Aeronautical Sci 9:341-9 Jl '42; Same. Engineer 174:242-4, 265-6 S 18-25 '42

Use of plastics in building. R. J. Schaffer. bibliog Chem & Ind 61:357-61 Ag 22 '42

Vinylidene plastics; properties, uses, etc. Product Eng 13:285-6 My '42

Wayne university of Detroit gives formal acceptance to rubber and plastics project proposed by Detroit rubber group. Rubber Age 51:58-9 Ap '42

What the product designer should know about plastics. E. Furholmen. diags Mach 48: 141-4 Mr; 199-203 Ap; 140-5 My; 140-4 Je; 148-51 Ag '42

What type of plastics? compression vs. injection molding. D. A. Dearle. Product Eng 13:331-2 Je '42

When is plastic a glue? confusion of terms. Sci Am 166:190+ Ap '42

Wood at war; prove mettle in field of plastics. Business Week p38-40 O 31 '42

See also

Bakelite
Casein
Cellulose
Cellulose acetate
Cement
Clay
Color in plastic materials
Ethyl cellulose
Gums and resins
Koroseal
Lignocellulose
Lumarith
Methyl methacrylate
Molded products
Molding
Pipes, Plastic
Plaskon
Plasticizers
Printing plates, Plastic
Resinous products
Rubber
Rubber, Artificial
Screws (for plastics)
Shellac
Tableware, Plastic
Tenite

Bibliography

Plastics digest. Published in monthly numbers of Modern plastics

Plastics in periodicals, 1935-1941. N. Bleyhl and R. Hagedorn, comps. 27p Periodical dept, Sullivan memorial lib, Temple univ, Philadelphia '42

Publications. Published in monthly numbers of Modern plastics

Coloring

See Color in plastic materials

Competitions

All-America package competition; award to International silver co.; tarnish-preventing plastic tray for silverware. il Mod Packaging 15:190-1+ Ap '42

All-America winners use plastics; winners in the eleventh All-America package competition. il Mod Plastics 19:58-9 Ap '42

Award winners shown in Washington. il Mod Plastics 19:48-50 D '41

Plastics awards in 6th annual Modern Plastics competition. il Arch Forum 75:sup60 N '41

Sixth annual Modern Plastics competition, 1941. il Mod Plastics 19:52-173 N '41

Electric properties

Cable materials and developments. S. W. Melsom. Inst E E J 89 pt 1:56-7 Ja '42; Abstracts. Elec R (Lond) 129:540 N 14 '41; Chem Age (Lond) 45:271 N 22 '41

Engineer looks at plastics. J. R. Townsend. Mod Plastics 19:56-7+ F '42

Insulation aboard U.S. navy vessels. J. B. Lunsford. il Mod Plastics 20:45-9+ O '42

Plastic materials; a guide to choice for electrical components. W. J. Tucker. il Elec R (Lond) 129:625-8 D 5 '41

Plastics in the electronics field; with directory of trade names and suppliers. J. Sasso. il Electronics 15:26-31+ Jl '42

Fillers

Filler for plastics made from wastes. Sci Am 167:39 Jl '42

Mineral fillers for plastics. C. L. Harness. Rock Prod 45:88 Je '42

Mineralite, a filler for plastics. S. Wein. Mod Plastics 19:66+ Mr '42

Manufacture

Dissolving pulp in war-time; supplementing linters with wood pulp in production of smokeless powder, rayon and plastics. A. D. Styles. Chem & Met Eng 48:80-2 D '41

Dust control in the plastics industry. J. W. Merrill and J. E. C. Valentin. bibliog diags Am Inst Chem Eng Trans 38:813-30 Ag '42

Plastics from agricultural by-products. O. R. Sweeney, L. K. Arnold and W. D. Harris. il Mod Plastics 19:70, 72+ D '41

Preparation of plastics and elastomers in liquid ammonia. R. G. Roberts. Chem & Eng N 20:316 Mr 10 '42

Optical properties

Diffusion of light by plastics. il diags Mod Plastics 19:68-9, 102+ My '42

Optical considerations in the design of transparent plastic enclosures. W. F. Bartoe. il diag Aero Digest 41:233-4 Jl '42

Patents

Hardwood pitch extender; K.E.M. Mod Plastics 20:112 N '42

U.S. plastics patents. Published in monthly numbers of Modern plastics

See also

Resinous products—Patents
Rubber, Artificial—Patents

Strength

Impact strength of plastic sheet; compounds of copolymer vinyl chloride-acetate resin. C. S. Myers. bibliog il diags Mod Plastics 20:81-7, 116+ O '42

Strength of plastics; data for thermosetting compounds. H. R. Moyer. Product Eng 13: 379-81 Jl '42

Strength of plastics; the influence of temperature on bending, compression, tensile and hardness; abstract. R. Nitsche and E. Salowski. Automobile Eng 32:271 Jl '42

Study and teaching

Career in plastics: colleges and special training schools adding study of plastics to curricula. il Mod Plastics 19:60-3+ Ag '42

Temperature effects

Urea plastics in lighting fixtures. R. B. Barnes and C. R. Stock. il diag Mod Plastics 19:61-5 F '42; Same. Illum Eng 37:89-96 F '42

Testing

ASTM test: mar resistance of plastics. diags Mod Plastics 20:84-5+ S '42

Bearing strength; plastics and plywood. J. Bond. il Mod Plastics 19:70-3+ Jl '42

Calculation of a modulus of impact. A. W. Koon. Mod Plastics 20:88 S '42

Creep tests on cellulose acetate. W. N. Findley. il diag Mod Plastics 19:71-3+ Ag '42

Deformation of plastics under load. diags Mod Plastics 19:72+ F '42

PLASTIC materials—Testing—*Continued*

Impact strength of plastic sheet; compounds of copolymer vinyl chloride-acetate resin. C. S. Myers. bibliog il diags Mod Plastics 20:81-7, 116+ O '42

Mar resistance of plastics. L. Boor. bibliog il Mod Plastics 20:79-83 S '42

Mechanical tests of cellulose acetate. W. N. Findley. il Am Soc T M Proc 41:1231-43; Discussion. 1244-5 '41

New methods for mechanical testing of plastics; abstract. L. H. Callendar. Mod Plastics 19:84 Ag '42

Physical properties of polystyrene as influenced by temperature. T. S. Carswell, R. F. Hayes and H. K. Nason. bibliog il diag Ind & Eng Chem 34:454-7 Ap '42

Plastics for water meter disks. J. D. Piper. il Mod Plastics 19:68-71 Ap '42

Rate of vibration of plastics. Science 96:sup9 Ag 21 '42

Resistance of plastics to chemical reagents. G. M. Kline, R. C. Rinker and H. F. Meindl. bibliog il Am Soc T M Proc 41:1246-57 '41; Same. Mod Plastics 19:59-66 D '41; Discussion. Am Soc T M Proc 41:1258-60 '41

Results of comparative shear tests on resin plastics and case in glue bondings; table. H. N. Haut. Aviation 41:105 Ap '42

Some observations on the mechanical testing and flow properties of industrial plastics. E. G. Couzens and W. G. Wearmouth. bibliog Soc Chem Ind J 61:69-74 My '42

Strength of plastic threads. Product Eng 13:358 Je '42

Surface irregularities of clear plastics; tentative method of test, A.S.T.M. D 637-41 T. Mod Plastics 19:75 Je '42

Test for flammability of plastics. diag Mod Plastics 19:74 Jl '42

Waste

New year's scrap resolution. Mod Plastics 19:51 Ja '42

PLASTIC materials, Decorative

Fibre casings for plastic trims. il Mod Packaging 15:58 Je '42

Plastics competition award to Co-operative displays; Lumitiles. il Mod Plastics 19:66-7 N '41

Plastics competition award to Coty, inc.; screens and display counters. il Mod Plastics 19:62-3 N '41

Plastics competition award to H. J. Lynch; Dura-linx rosary. il Mod Plastics 19:120-1 N '41

Plastics competition award to J. M. Gordon & co.; fluorescent Christmas tree ornaments. il Mod Plastics 19:118-19 N '41

Plastics competition award to J. M. Gordon & co.; translucent cellulose acetate substitute for metal foil. il Mod Plastics 19:122-3 N '41

Plastics competition award to Vernon-Benshoff co.; carved intaglio plaques of Plexiglas. il Mod Plastics 19:124-5 N '41

PLASTIC materials, Laminated

Advances in plastics during 1941. S. W. Place. il Mod Plastics 19:61-2 Ja '42

Airplane pilot seats. il Mod Plastics 19:48-9+ Ag '42

Army helmet liner; laminated phenolic impregnated fabric. il Mod Plastics 19:35-8+ My '42

Background for blueprints. il Mod Plastics 19:40-1+ F '42

Baltimore mast. il Mod Plastics 19:39-41+ Mr '42

Cloth laminates for non-structural parts. J. Delmonte. diags Aero Digest 41:247-8 Jl '42

Fan blades for cooling towers; phenolic-resin-impregnated wood; Textolite. il Mod Plastics 19:46+ D '41

How to use laminated-plastic bearings. V. E. Enz. il Power 86:405-6 Je '42

Laminated phenolic bearings. K. T. MacGill. il Mod Plastics 20:76+ N '42

Laminated plastic, one answer to shortage of critical metals. F. P. Hunsicker. il diags Paper Tr J 115:41-4 S 17 '42

Laminated plastic pipe for chemicals. V. E. Enz. il Mod Plastics 19:58+ Ag '42; Same. Chem Ind 51:200-1 Ag '42

Laminated plastics; properties, uses, etc. Product Eng 13:39-40 Ja '42

Laminates and treated surfaces; partitions, table tops, desks, walls, panels, ceilings, etc. il Mod Plastics 19:50-1+ Ap '42

Low pressure laminating. J. D. Nelson and G. F. D'Alelio. il Mod Plastics 20:45-7, 122+ S '42

Machining laminated plastics. H. Chase. il Am Mach 86:434-7 My 14 '42

Marine bearings; laminated plastic bearings for stern tubes in ships. H. C. Irvin. il Mod Plastics 19:33-4+ Ap '42

Micarta goes to sea. V. E. Enz and F. P. Hunsicker. il Marine Eng 47:121-3 Je '42

New paper base plastic; Consolidated water power and paper company. Paper Ind 24:565 S '42

Nonmetallic bearings for steel mill service. F. W. Vogt. il Steel 111:78, 80 Jl 20 '42

Passing the bottle; laminated plastic edging on dials and guides of bottling equipment reduces breakage, scarring and noise. il Mod Plastics 19:42+ Mr '42; Same. Mod Packaging 15:94+ My '42

Plastics competition award to Columbian rope co.; abrasive disks and bobbin heads. il Mod Plastics 19:114-15 N '41

Plastics competition award to Coty, inc.; screens and display counters. il Mod Plastics 19:62-3 N '41

Plastics competition award to Foster Wheeler corp.; cooling tower fans. il Mod Plastics 19:108-9 N '41

Plastics competition award to General electric co.; radial wave street reflector. il Mod Plastics 19:106-7 N '41

Resistance of plastics to chemical reagents. G. M. Kline, R. C. Rinker and H. F. Meindl. bibliog il Am Soc T M Proc 41:1246-57 '41; Same. Mod Plastics 19:59-66 D '41; Discussion. Am Soc T M Proc 41:1258-60 '41

Rolling out production; resinoid truck wheels for industrial truck and caster purposes. il Mod Plastics 19:50+ Je '42

Strength of plastics; data for thermosetting compounds. H. R. Moyer. Product Eng 13:379-81 Jl '42

Triumph in a helmet. il Mod Plastics 20:53-5 N '42

Wired window protection; clear laminated cellulose acetate sheet with wire mesh reinforcement. il Mod Plastics 19:52+ Jl '42

See also

Micarta

Testing

Behavior of plastics under vibrations; mild steel, duralumin, laminated plastics, polymethyl methacrylate. B. J. Lazan. bibliog il diags Mod Plastics 20:83-8+ N '42

Investigation of punching quality of laminated phenolic sheet. diags Am Soc T M Proc 41:403-12 '41

PLASTIC materials, Translucent

Plastics competition award to Chas. W. Breneman co.; Brenlin Rolblind, Ethocel. il Mod Plastics 19:84-5 N '41

Plastics competition award to Co-operative displays; Lumitiles. il Mod Plastics 19:66-7 N '41

Plastics competition award to Ivan T. Johnson co.; glare shield for fluorescent lamp reflector, Plastacele. il Mod Plastics 19:104-5 N '41

PLASTIC materials, Transparent

Breather wraps for avocados. il Mod Packaging 15:56 Mr '42

Converting for Uncle Sam; Allied plastics company gas-mask lenses. E. F. Lougee. il Mod Plastics 19:58-9+ Jl '42

Correct methods of Plexiglas installation. D. S. Frederick. il diags Aviation 41:62-8 Ap '42

Drawing transparent containers. H. K. Haviland. diags Mod Plastics 19:66-7, 104+ F '42

Frozen dozen; ethyl cellulose refrigerator tray. il Mod Plastics 19:49 Ap '42

PLASTIC materials, Transparent—*Continued*

Glareless illumination for instrument boards; direct lighting supplemented by plastic meter cases or reflecting shelves. E. D. Tillson. il diags Elec W 116:1715-16+ N 29 '41

Industrial process in miniature. il Mod Plastics 19:54+ Ag '42

Information on flexible transparent and translucent substitutes for window glass. R. J. Moore and H. W. Mackinney. bibliog Am Inst Chem Eng Trans 38:237-44 F '42

Less door glass breakage; use of Plexiglas. H. Stapleton. il Bus Transportation 20:596 D '41

Lid is on; clear protective shields for laboratory instruments and food counters. il Mod Plastics 19:63 Je '42

Machining acrylic plastics. W. J. Antener. il Mod Plastics 20:72-3, 76+ O '42

Measuring haze of transparent plastics. diag Mod Plastics 19:80+ Ag '42

Metal coatings on non-conducting materials; with complete details for silvering methacrylate resins. S. Wein. il Metal Finishing 39:666-72 D '41

New thermosetting compounds; Columbia resin 39. Mod Plastics 20:88-90+ O '42

New type window pane withstands explosions; transparent plastic laminated with wire mesh. Iron Age 150:95 Jl 16 '42

Optical considerations in the design of transparent plastic enclosures. W. F. Bartoe. il diag Aero Digest 41:233-4 Jl '42

Petroleum plastics, the acrylic resins. C. C. Pryor. il diag Pet Eng 13:80, 82-4 My '42

Plastic competition award to Scheuer art metal mfg. co.; glove and jewelry displayer. il Mod Plastics 19:76-7 N '41

Plastic lenses for gas masks. Business Week p61-2 S 26 '42

Plastic models in war training. il Mech Eng 64:484-5 Je '42

Plastics competition award to Bloomingdale bros.; candlestick of Plexiglas and Lucite. il Mod Plastics 19:126-7 N '41

Plastics competition award to S. Buchsbaum & co.; personal accessories from vinyl plastics. il Mod Plastics 19:158-9 N '41

Plastics competition award to Vernon-Benshoff co.; carved intaglio plaques of Plexiglas. il Mod Plastics 19:124-5 N '41

Plexiglas and other acrylic resins. C. B. Wooster. il J Chem Educ 19:430-4 S '42

Plexiglas misnomer, F.T.C. charges. Oil Paint & Drug Rep 141:7+ Ap 27 '42

Protection for production. S. A. Bell. il Mod Plastics 19:43-5+ Mr '42

Removing cylinder heads; transparent plastic cup holds rust solvent. il Mod Plastics 19:35 Ap '42

Shatterproof shields; acetate-coated wire. il Mod Plastics 19:38 Mr '42

Simple ultracentrifuge with plastic rotor. K. G. Stern. diags Science 95:561-2 My 29 '42

Some observations on the military service requirements of transparent plastics; abstract. W. F. Bartoe. J Aeronautical Sci 9:74 D '41

Table of properties; Plexiglas. J. Sasso. Aviation 41:87 My '42

Transparent materials uses narrowed by OPM. Oil Paint & Drug Rep 140:5+ N 17 '41

Transparent plastic models for war training classes. il diags Automotive & Aviation Ind 86:38 Ap 15 '42

Visual experimentation with centrifugal pumps. H. L. Cooper. il diags Engineer 172:278-81 O 24 '41

Wired window protection; clear laminated cellulose acetate sheet with wire mesh reinforcement. il Mod Plastics 19:52+ Jl '42

Working transparent plastics. J. Sasso. il diags Aviation 41:86-7+ My; 105, 107, 109+ Je '42

See also

Containers, Transparent

Lucite

Testing

New mar test for transparent plastics; abstract. L. Boor. Science 96:supl4 Jl 3 '42

PLASTIC pipes. See Pipes, Plastic

PLASTIC printing plates. See Printing plates, Plastic

PLASTIC tableware. See Tableware, Plastic

PLASTICITY

Earth pressure and shearing resistance of plastic clay; symposium. K. Terzaghi, R. B. Peck and W. S. Housel. diags Am Soc C E Proc 68:857-950 Je '42; Discussion. 68:1216-24 S '42

Increasing lime plasticity by electro-osmosis. F. C. Mathers and H. S. Wilson. Rock Prod 45:73-4 Mr '42

Measuring workability of clay bodies; new body tester. E. C. Henry. bibliog il Cer Ind 38:72, 74 Mr '42

Mechanical behaviour of bitumen. W. Lethersich. bibliog diags Soc Chem Ind J 61:101-8 Jl '42

Plasticity of clays. E. A. Hauser and A. L. Johnson. bibliog Am Cer Soc J 25:223-7 My 1 '42

Some observations on the mechanical testing and flow properties of industrial plastics. E. G. Couzens and W. G. Wearmouth. bibliog Soc Chem Ind J 61:69-74 My '42

Strain meters to measure plastic flow in Shasta dam. il Eng N 128:425 Mr 12 '42

Stress-strain characteristics of plastic clay masses. R. Russell, jr. and C. F. Hanks, jr. bibliog il diag Am Cer Soc J 25:16-28 Ja '42

See also

Ceramic materials

Clay

Coal—Plasticity

Elasticity

Plastic materials

Viscosity

PLASTICIZERS

Ambidex; a new activating plasticizer. Rubber Age 52:34 O '42

Electrical properties of solids; plasticized polyvinyl chloride. D. J. Mead, R. L. Tichenor and R. M. Fuoss. bibliog Am Chem Soc J 64:283-91 F '42

Industrial uses of chemicals and related materials; trimetaoxyphenyl phosphate. Oil Paint & Drug Rep 142:63 S 28 '42

Lacquer plasticizers. Oil Paint & Drug Rep 142:46-7 O 26 '42

Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

Naftolen as a plasticizer and extender for rubber in carbon black compounds. F. Rostler and V. Mehner. India Rubber W 105:473-7 F '42

Naftolen in carbon black compounds containing reclaim. F. Rostler and K. Rostler. India Rubber W 107:163-8 N '42

Phthalate plasticizers under total allocation. Oil Paint & Drug Rep 142:3+ Ag 10 '42

Piccocizer 30, a new plasticizer. Rubber Age 51:208 Je '42

Plasticizers. J. M. DeBell. Mod Plastics 20:89+ N '42

Plasticizers manufactured in America and commercially available. F. J. Van Antwerpen, comp. Ind & Eng Chem 34:68-73, 1119 Ja, S '42

S-125, new plasticizer for synthetic rubber. Rubber Age 50:113 N '41

Solvents and plasticizers for chlorinated rubber. J. W. Raynolds, M. R. Radcliffe and M. R. Vogel. bibliog Ind & Eng Chem 34:466-73 Ap '42

Solvents and plasticisers in war time. A. M. Peake. Chem Age (Lond) 46:21-3 Ja 10 '42

Theop, new plasticizer for synthetic rubber. Rubber Age 51:298 Jl '42

PLASTICS engineers, Society of. See Society of plastics engineers

PLATE glass

Plate glass; type and processing operations. Product Eng 13:161-2 Mr '42

See also

Mirrors—Manufacture

Pittsburgh plate glass company

Manufacture

Large plate glass melting furnace operates 905 days without shutdown; Ford furnace. il Cer Ind 38:30-2 Mr '42

PLATE glass—Manufacture—*Continued*

Plate glass manufacture; Creighton plant of Pittsburgh plate glass co. il flow diag Chem & Met Eng 49:114-17 Ja '42

PLATE glass insurance. See Insurance, Plate glass

PLATES

Stress concentrations in plates loaded over small areas. H. M. Westergaard. bibliog Am Soc C E Proc 68:509-34 Ap '42

PLATES, Steel. See Steel plates

PLATFORMS

Timber-lock platform made by Yale & Towne mfg. co. il Paper Tr J 114:26 Mr 19 '42

PLATINA. See Platinum

PLATING

Reclaiming plated metals; review of American, German, Austrian, Swiss, English and French patent literature. W. Machu. Iron Age 149:52-3 Ap 2 '42

Restrictions on plating. Metal Finishing 40:119 Mr '42

See also

Brass plating
Cadmium plating
Chromium plating
Copper plating
Electroplating
Galvanizing
Iron plating
Nickel plating
Rhodium plating
Silver plating
Water supply for plating

PLATING departments

Motion and time study in electroplating. P. J. Lopresti. flow charts Metal Finishing 40:196-9 Ap '42

Tank ventilating power costs cut by low velocity systems. W. B. Harris. diags Heat & Ven 39:42-5 Jl '42

Equipment

Cadmium plating in the victory program. A. J. Fusco and N. E. Woldman. il diags Iron Age 149:46-52 Mr 19 '42

Linings for tanks in the plating shop. E. Coffin. Metal Finishing 40:128+ Mr '42

PLATING machinery

Pneumatic transfer expedites plating operations. il Comp Air M 47:6872 O '42

Utilizes standard drive units. J. V. Davis. il Machine Design 14:116 Ap '42

PLATING racks

Hard chromium plating. A. Fletcher. Metal Finishing 40:536 O '42

PLATING shops

Some of the problems involved in converting the plating industry. C. B. F. Young. Steel 110:70, 72+ Je 8 '42

Specification plating; recovery of over and under machined parts as well as worn parts; Platex, inc. T. E. Lloyd. il diag Iron Age 150:58-60 Jl 16 '42

PLATINUM

Accommodation coefficient of mercury on platinum and the heat of vaporization of mercury. L. B. Thomas and F. G. Olmer. diags Am Chem Soc J 64:2190-5 S '42

Electrostatic voltmeter as a d.c./a.c. transfer instrument; errors appear to be due to semi-conducting films on surfaces of elements; believed to be absent in voltmeters with working surfaces of freshly-cleaned platinum. R. S. J. Spilsbury and A. Felton. diags Inst E E J 89 pt 2:129-32; Discussion. 133-6 Ap '42

Industrial uses of platinum. Chem & Eng N 20:145 Ja 25 '42

Intercomparison of platinum resistance thermometers between —190° and 445°C. H. J. Hoge and F. G. Brickwedde. bibliog J Research Nat Bur Stand 28:217-40 F '42

Intermediate colloid state in the formation of gold and platinum ions. C. G. Fink. bibliog J Phys Chem 46:76-81 Ja '42

Low temperature adiabatic calorimeter; the calibration of the platinum resistance thermometers. D. M. Yost and others. diags Am Chem Soc J 63:3488-92 D '41

Mechanism of the catalytic conversion of para-hydrogen on nickel, platinum and palladium. A. Farkas and L. Farkas. bibliog Am Chem Soc J 64:1594-9 Jl '42

Platina. F. E. Beamish and E. W. Warren. bibliog(179 references) Can Min J 63:505-13, 578-85, 647-56 Ag-O '42

Platinum as war material. Economist 143:343 S 12 '42

Platinum at work in 1942. E. M. Wise. il Min & Met 23:421-5 Ag '42

Platinum electrodes for electrolytic analysis. J. C. Chaston and H. W. Webb. il Soc Chem Ind J 61:145-8 S '42

Platinum in the chemical industry; resistance to acids and high temperatures. H. Seymour. Chem Age (Lond) 47:127-8 Ag 8 '42

Sorption of hydrogen by metals; temperature variation experiments. C. W. Griffin. Am Chem Soc J 63:2957-60 N '41

Stereochemistry of catalytic hydrogenation; the stereochemistry of the hydrogenation of aromatic rings. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-91 S '42

Studies on overvoltage; a study of hydrogen decomposition potentials under various conditions in acid solutions at platinized platinum electrodes. A. L. Ferguson and M. B. Towns. bibliog Electrochem Soc Trans 82 (preprint 26):301-17 O '42

Studies on overvoltage; decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. A. L. Ferguson and M. B. Towns. diags Electrochem Soc Trans 82 (preprint 25):285-99 O '42

Tertiary deposits of the Eagle-Circle district, Alaska. J. B. Mertie, jr. pl map U S Geol S Bul 917-D:213-64; pa 15c Supt. of doc. '42

Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

See also

Platinum metals

Analysis

Platina; uses and determination of platinum. F. E. Beamish and E. W. Warren. Can Min J 63:583-5 S '42

History

Platina. F. E. Beamish and E. W. Warren. bibliog(179 references) Can Min J 63:505-13, 578-85, 647-56 Ag-O '42

PLATINUM alloys

Platinum at work in 1942. E. M. Wise. il Min & Met 23:421-5 Ag '42

PLATINUM metals

Electrodeposition of the metals of the platinum group. K. Schumpelt. bibliog Electrochem Soc Trans 80 (paper 40):549-58 O '41; Same. Metal Finishing 40:405-8 Ag '42

Minor metals, 1941. H. W. Davis. Eng & Min J 143:51-2 F '42

Platinum at work in 1942. E. M. Wise. il Min & Met 23:421-5 Ag '42

Platinum metals industry in 1941. C. Engelhard. Comm & Fin Chr 155:452-3 Ja 29 '42; Excerpts. Chem Ind 50:87 Ja '42; Steel 110:106 Ja 26 '42

See also

Palladium
Platinum
Rhenium
Rhodium

PLATINUM mines and mining

Colombia

Colombia, important gold and platinum producer. A. Meyer. il map Min & Met 23:383-6 Jl '42

PLATINUM oxides

Crystalline structure of Pt_3O_4. E. E. Galloni and A. E. Roffo, jr. bibliog il diags J Chem Phys 9:875-7 D '41

Platina; the effect of air on hot platinum. F. E. Beamish and E. W. Warren. Can Min J 63:647-56 O '42

PLATINUM plating

Electrodeposition of the metals of the platinum group. K. Schumpelt. bibliog Electrochem Soc Trans 80 (paper 40):549-58 O '41; Same. Metal Finishing 40:405-8 Ag '42

PLATINUM plating—*Continued*

Platinum plating; a substitute for rhodium plate. C. B. F. Young and J. F. Davis. il Metal Finishing 40:252-3+ My '42

PLAYBACK equipment. See Moving picture sound recording

PLAYGROUNDS

Pipe drains stop an earth slide; St Mary's playground in San Francisco. il Eng N 128:539-40 Ap 9 '42

Lighting

Playground lighting for 3 cents a head. E. C. Pynn. Elec W 117:342+ Ja 24 '42

PLEIADES

New Pleiades; investigations of proper motions have added more stars to cluster. H. N. Russell. Sci Am 166:180-1 Ap '42

PLEUROSIGMA angulatum

Electron and optical microscope interpretation of the wall of pleurosigma angulatum. D. H. Hamly and J. H. L. Watson. bibliog il diags Opt Soc Am J 32:433-42 Ag '42

PLEXIGLAS. See Plastic materials, Transparent

PLIOFILM

All-America package competition; award to Kingan & co.; Tasti-square meat package. il Mod Packaging 15:146-7 Ap '42

All-America package competition; award to the Cudahy packing co.; meat loaves and cooked hams in transparent rubber hydrochloride casings. Mod Packaging 15:144-5+ Ap '42

All-America package competition; award to Thebest mills co.; swim suits in transparent bags of rubber hydrochloride sheeting. il Mod Packaging 15:196-7+ Ap '42

Fruit wrap; moisture-proof film preserves fruit. il Sci Am 166:81 F '42

Pilot plant development of pliofilm; abstract. G. R. Lyon. Chem & Met Eng 49:170-1 F '42

See also

Tensylon

PLOTNIKOW effect

Infra-red rays and their application to problems of the textile colorist. J. Grant. bibliog diag Textile Col 64:213-15 My '42

PLOTZ foundation. See Ella Sachs Plotz foundation for the advancement of scientific investigations

PLOWS

Modern technique in tractor ploughing. il Engineering 152:456 D 5 '41

Tractor ploughing demonstrations. il Engineer 172:460 D 26 '41

Manufacture

Casting plow parts and pipe fittings; Lynchburg foundry company. il Foundry 70:100-3+ My '42

PLUM ISLAND, Massachusetts

Shoreline changes on Plum Island. R. L. Nichols. maps Am J Sci 240:349-55, pl 1 My '42

PLUMBAGO. See Graphite

PLUMBERS

In an emergency, it's, call the plumber! San Francisco Master plumbers' assn. plan for air raids. Dom Eng 159:36+ Ap '42

PLUMBING

Ceramics aid wartime construction. Cer Ind 38:75-6 Ap '42

Mass heating installations for mass housing; pre-assembling of plumbing and heating piping in housing project. il plan Dom Eng 158:58-60+ D '41

New housing critical list. Dom Eng 159: 44+ Mr '42

Plumbing and heating to keep them flying; Douglas aircraft company's factory at Long Beach. il Dom Eng 159:56-7+ Ja '42

Plumbing installation and repair. H. P. Manly. 236p $1.50 Drake '41

Plumbing jitters; substitutes tested. Business Week p38+ N 22 '41

Plumbing systems for defense and low-cost housing; with time-saver standards. diags Arch Rec 90:91-6 N '41

Put sink and bath back to back! save money and critical materials. plans Am Bld 64:44 Jl '42

Re-design brings conservation in plumbing. Arch Rec 91:44-5 Ja '42

Structural changes in the bonding layer of soft-soldered joints in copper pipe lines on long-continued heating. W. H. Swanger and A. R. Maupin. bibliog J Research Nat Bur Stand 28:479-87, pl 1-8 Ap '42

Welding of lead. R. Dick. il Dom Eng 160: 42-4+ Ag '42

See also

Bathrooms
Drinking water systems
Heating
Hot water supply
Mechanical equipment of buildings
Pipe fitting
Pipe fittings
Pipes
Plumbing fixtures
Plumbing shops
Plumbing trade
Sanitary engineering
Sewer pipes
Sewerage
Solder and soldering
Steam pipes
Swimming pools
Water closets
Water distribution
Water pipes

Estimates

Charge for estimates. Dom Eng 160:53+ O '42

Estimating for the plumbing contractor. R. M. Starbuck. 165p $2.50 R. M. Starbuck & sons, Hartford, Conn. '41

Patents

News of patents. Published in monthly numbers of Domestic engineering

Standards

Emergency plumbing standards for defense housing. plans Am Bld 63:62-3 D '41

Emergency plumbing standards; vents and venting. diags Dom Eng 159:48-9+ Mr '42

Installing lead under the new emergency plumbing standards. diags Am Bld 64:114-15 Ap '42

Municipal adoption of the proposed federal emergency plumbing standards for defense housing. 20p pa $1 Am. municipal assn. 1313 E. 60th st, Chicago '42

What size pipes; Bureau of standards report BMS79 on water distributing systems for buildings. Dom Eng 159:54+ F '42

Study and teaching

Plumbing and heating in the army; Camp Lee (Va.) quartermaster replacement training center plumbing school. il Dom Eng 160:73+ O '42

Tables, calculations, etc.

Plumbing, heating, and air conditioning shop mathematics. H. D. Harper. 168p $1.50 Van Nostrand '42

16 steps in sizing piping for cold and hot water supply. charts Heat & Ven 39:54-61 F '42

Venting

Emergency plumbing standards; vents and venting. diags Dom Eng 159:48-9+ Mr '42

PLUMBING fixtures

Committee tackles problems of war; Plumbing and heating industry advisory committee, meet with representatives of OPM. Dom Eng 159:60-1+ Ja '42

Priorities take materials but Crane product designers are not stymied. il Sales Management 50:20-1 Ap 20 '42

See also

Bathrooms
Sanitary ware

Standards

Staple vitreous china plumbing fixtures. 3d ed il diags U S Nat Bur Stand Commercial Standard CS20-42:1-39; pa 10c Supt. of doc. '42

PLUMBING laws and regulations

New code hits legal snag; projected plumbing code for defense housing. Dom Eng 158: 41+ D '41

PLUMBING shops

Equipment

Bins for small parts. il Dom Eng 159:68 Ja '42

Management

Goss goes and gets them and holds them with service. il Dom Eng 160:48-9 S '42

Sideline selling for the war era; McKay plumbing company. il Dom Eng 159:44-5+ Ap '42

Why he needed two showrooms; Ideal plumbing and heating service co. sells electric appliances. il Dom Eng 159:66-7+ Ja '42

PLUMBING supplies industry

Central supply association annual meeting, Chicago, Oct. 30-31. Dom Eng 158:38-9+ D '41

Committee tackles problems of war; Plumbing and heating industry advisory committee, meet with representatives of OPM. Dom Eng 159:60-1+ Ja '42

Eliminating brass; plumbing industry even finds substitutes for substitutes. il Business Week p62+ Ap 11 '42

How Crane is helping customers untangle the priorities mess. il Sales Management 49:54+ N 15 '41

Victory program. il Dom Eng 159:36-46+ F '42

Advertising

Aids dealers: to help win the war, and to stay in business; Crane co. sales promotion; consumer magazine and other helps. H. E. Fleming. il Ptr Ink 198:16-17+ Mr 20 '42

PLUMBING trade

All-industry drive for defense housing. il Dom Eng 158:46-7+ N; 34-7+ D '41

Domestic Engineering guide to allocation symbols. Dom Eng 160:50a Jl '42

Effects of the war, priorities and allocations on plumbing, heating industry. W. J. Casey. Dom Eng 159:58+ Ja '42

Experts answer questions on priority and other problems. Dom Eng 159:28-9+ Je '42

Heating-plumbing priority orders. Sheet Metal Worker 33:20-2 My; 21-2+ Je; 50-1+ Jl '42

Help for contractors. Dom Eng 160:53+ O '42

How to apply for repair priorities. Sheet Metal Worker 33:26-7 Je '42

L-79 amended; text in full. Dom Eng 159:34-5+ Je '42

Maintenance and repair, contractor's key to business; examples of sales and servicing of water systems and water heaters. Dom Eng 160:48-9+ O '42

Materials flow chart shows how to obtain preference ratings and how to extend them to suppliers [3d ed] Dom Eng 159:39-45+ My '42

Mr Waite goes industrial; Waite firm, industrial plumbing specialists. il Dom Eng 160:44-5+ O '42

New field for contractors; gasoline pumping systems included in plumbing and heating contracts on war job. diag Dom Eng 160:39 Jl '42

New order (P-84) gives A-10 rating for repairs to existing plumbing and heating; with text. il Dom Eng 159:28-33+ Ap '42

New quiz on all-important L-79 (plumbing and heating equipment). Dom Eng 160:43+ Jl '42

Now, price ceilings on plumbing and heating jobs. Dom Eng 160:42+ Jl '42

Order P-84 for repair materials for repair of heating and plumbing work. Sheet Metal Worker 33:25, 32+ Ap '42

Post war planning in our industry. il Dom Eng 160:46-7+ O '42

Priorities explained; flow chart shows how priorities effect jobs and flow of materials. Dom Eng 159:47-52 F '42

Problem clinic. Dom Eng 160:54 O '42

Questions and answers on today's vital problems. Dom Eng 159:36-8 My '42

Roads to plumbing and heating supplies; jobs which carry priority rating. flow chart il Dom Eng 159:38-47+ Mr '42

Simplification cuts frills, reduces sizes and varieties; orders of plumbing and heating branch of War production board. Dom Eng 159:40-1+ Ap '42

Ten year plan for merchandising; plumbing business of C. W. Knights. il Dom Eng 158:46-7+ D '41

These men represent industry to Washington. Dom Eng 159:52+ My '42

Today's job; fuel conservation. il diags Dom Eng 160:36-47+ S '42

Victory program for our industry. il Dom Eng 159:44-53+ Ja; 36-46+ F; 51-2 Mr '42

WPB freezes stocks of new plumbing, heating equipment. Gas Age 89:62, 64 My 7 '42

WPB relaxes restrictions on gas appliances; plumbing and heating equipment. Gas Age 89:11-12+ Je 18 '42

See also
Plumbing fixtures
Plumbing shops

Accounting

Job records, the basis of bookkeeping. il Dom Eng 160:46+ Jl '42

Mr master plumber checks service costs. Dom Eng 159:53-4+ My '42

Advertising

Aids for the plumbing and heating contractor to use in his drive for fuel conservation. il Dom Eng 160:32-3 Jl '42

On location, at the plumbing movie. il Dom Eng 160:40-1+ Jl '42

Plumbing industry motion picture; synopsis of story to educate public on dangers of back-siphonage. Dom Eng 159:37+ Ap '42

Farm market

Maintenance and repair, contractor's key to business; examples of sales and servicing of water systems and water heaters. Dom Eng 160:48-9+ O '42

Roads to plumbing and heating supplies; farm road. flow chart Dom Eng 159:46+ Mr '42

Remodeling

Conversion job, home to hospital. il Dom Eng 158:50+ D '41

Opportunity in remodeling. il plans Dom Eng 160:50-1 O '42

Remodeling Governor Thomas Bibb home at Belle Mina, north Alabama. il Dom Eng 159:64-5 Ja '42

Roads to plumbing and heating supplies; road of industry: conversion of residence to chemical war work. flow chart il Dom Eng 159:42+ Mr '42

Selling now for sales later; kitchen and bathroom modernization. il Dom Eng 160:46+ Ag '42

Service

Mr master plumber checks service costs. Dom Eng 159:53-4+ My '42

Statistics

Business summary for 1941. Dom Eng 159:95-6 Ja '42

PLURALITY of worlds. See Life in other worlds

PLYWOOD

Advances in production and assembly of plywood in aircraft construction. H. G. Bersie and E. R. Clarke. il Aeronautical Eng R 1:13-15, 17, 19 Jl '42

Airplane pilot seats. il Mod Plastics 19:48-9+ Ag '42

Black-out panels of Douglas fir plywood. il Ry Age 112:549-50 Mr 14 '42

Boats for the army. il Mod Plastics 19:45+ Ag '42

Business as usual, but more of it. W. Gates. il Mag of Wall St 70:238-9+ Je 13 '42

Characteristics of woods for aircraft structural plywoods. R. C. Perkins. il Aero Digest 41:181-2, 185-6, 189-90 O '42

Chemical factors involved in the glueing of wood with cold-setting urea/formaldehyde resins; abstract and discussion. W. G. Campbell. Chem & Ind 61:161-2 Ap 4 '42

PLYWOOD—*Continued*

Compressed impregnated plywood; properties, uses, etc. Product Eng 13:467-8 Ag '42

Cooper stages a comeback; plywood collapsible barrel for tobacco, etc. A. M. Hoffmann. il Comp Air M 47:6819-20 Ag '42

Except the rod; plywood finds many applications in present-day living. T. D. Perry. il Tech R 44:313-15+ My '42

Fire hazards of plywood plants. C. F. Wagner. Weekly Underw 146:1001-3 My 2 '42

Germans devise new plywood barrel. For Comm W 7:29 Je 27 '42

Haskelite manufacturing corporation; good war and post-war prospects. Comm & Fin Chr 155:2380 Je 25 '42

High density plywood. T. D. Perry. bibliog diags Mod Plastics 19:61-3+ My '42

High-frequency heat used to make plywood. il Elec W 117:2240+ Je 27 '42

Hot wings and cold set resins. il Mod Plastics 20:52-5 S '42

Houses off the assembly line; synthetic resin-bonded plywood and synthetic resin adhesives. il Mod Plastics 19:36-7 D '41

Impregnated plywood becomes war material. J. Delmonte. il Machine Design 14:53-7 Jl '42

Langley aircraft corporation; airplane of molded plastic-bonded plywood. J Aeronautical R Sec 9:37+ N '41

Little boats; resin-bonded plywood decreases weight, increases speed of patrol torpedo and landing boats. il Mod Plastics 19:35-7+ Mr '42

Low-cost schools in war plant areas. il diags Eng N 128:910-11 Je 4 '42

Maybe this will solve your storage problem; plywood storage bin. il diags Food Ind 14:62-3 O '42

Modern plywood. T. D. Perry. 366p bibliog (p338-53) $4.50 Pitman '42

Molded plywood planes; Langley planes. A. Klemin. il Sci Am 166:36-7 Ja '42

Molding plastic-plywood; Vidal process. il Mod Plastics 19:46-9+ Jl '42

Morrow plywood trainer. il Aviation 40:107 D '41

Morrow trainer; plastic-bonded plywood. il Aero Digest 39:231+ D '41

Multi-story building designed in timber; manufacturing and shop building for the Navy. il diags Eng N 129:580-2 O 22 '42

New plywood mill in South Australia. For Comm W 8:25 S 5 '42

New Ryan PT-25; plastic-bonded plywood military trainer. il Aviation 41:235+ O '42

New Ryan PT-25 trainer built of non-strategic materials. il Aero Digest 41:198, 201-2 O '42; Excerpts. Aeronautical Eng R 1:99+ O '42

Office building Lebanon, Ore.; administration building for plywood plant with apartment for overnight visitors. il plans Arch Forum 76:166-8 Mr '42

Panels of light weight for transport use; Fybr-Tech flying boats. il Sci Am 166:29-30 Ja '42

Parachute flare base. il Mod Plastics 19:57+ Ag '42

Performance of broadcast studios designed with convex surfaces of plywood. C. P. Boner. il Acoustical Soc Am J 13:244-7 Ja '42

Planned formwork speeds construction; Fort Greene houses. il plan Eng N 129:302-4 Ag 27 '42

Plastic plywood comes of age. J. W. Greve. il Machine Design 13:53-5+ D '41

Plastics competition award to Bristol aircraft corp. il Mod Plastics 19:154-5 N '41

Plastics competition award to Technical plywoods. il Mod Plastics 19:150-1 N '41

Plastics research; plastic-plywood aircraft. W. Gallay. il Can Chem & Process Ind 25:635-8 D '41

Plywood can take it! O. W. Timm. il Automotive & Aviation Ind 87:104+ O 1 '42

Plywood fills new needs; industry doubles 1940 volume. Barron's 21:5 D 29 '41

Plywood flies and fights. il Fortune 25:74-5+ Mr '42

Plywood girders roof a warehouse; RCA manufacturing co. il diag Eng N 128:625-6 Ap 23 '42

Plywood match plates. E. W. Horlebein. il Iron Age 149:46-7 Ja 8 '42

Plywood planes by the Vidal process. P. M. Heldt. il Automotive & Aviation Ind 87:28-9+ Jl 15 '42

Plywood sheathing on Canadian Pacific cars. il Ry Age 113:22 Jl 4 '42; Same. Ry Mech Eng 116:341 Ag '42

Plywood utilized as float, conserves aluminum. A. Klemin. il Sci Am 166:205-6 Ap '42

Plywood washers save metal in fabrication of timber trusses. il Eng N 128:934 Je 4 '42

Radio frequency heating speeds plywood bonding. il Electronics 15:79 N '42

Rays for plywood; electro-thermal presses cut down time and cost of operations. Business Week p67-8 Ap 18 '42

Resin-bonded wood laminates for shell type aircraft structures. A. A. Gassner. bibliog diags J Aeronautical Sci 9:161-71 Mr '42

Rolling off a log; plywood, made available for new applications by development of synthetic resin adhesives. T. D. Perry. il diags Tech R 44:72-4, 88, 90+ D '41; Same cond. Sci Am 166:125-8 Mr '42

Scarfed joints in plywood. T. D. Perry. diags Mod Plastics 20:74-5+ S '42

Shift to plywood; lifeboats tested for seaworthiness. Business Week p68 O 24 '42

Short wave induction heating employed to dry plywood. il Elec West 89:46-7 Ag '42

Steel and wood design for North American combat training planes. il Automotive & Aviation Ind 86:34-5+ My 1 '42

Steel-plywood trainer. il Mod Plastics 19:45+ Je '42

Synthetic adhesives for plywood and bakelite. Engineering 152:336 O 24 '41

Synthetic adhesives for plywood manufacture. Engineer 172:282 O 24 '41

Synthetic resins in construction. H. N. Haut. il diags Aviation 41:84-5 Mr; 103, 105+ Ap '42

Testing finishes for plywood surfaces. A. B. Marsh. il Aero Digest 41:174, 176, 178+ S '42

Tooling for plastic-bonded aircraft. W. D. Lewis. diags Automotive & Aviation Ind 87:32-4+ Ag 15 '42

Training planes built with low alloy steel; plywood fuselage. il Iron Age 149:68C Ap 2 '42

Troop carrying gliders. diag Manuf Rec 111:31+ Ja '42

Use of glue in wooden aircraft. J. G. MacDermot. Aero Digest 41:186+ Jl '42

Use of plastics and allied materials in aircraft construction. G. W. DeBell. J Aeronautical Sci 9:341-9 Jl '42; Same. Engineer 174:242-4, 265-6 S 18-25 '42

Use of steel and wood conserves aluminum. il Aero Digest 40:127-8, 130+ My '42; Abstract. Metals & Alloys 15:1048+ Je '42

Uses of plywood in aircraft. T. D. Perry. il diags Aero Digest 41:200, 205-6 Jl '42

Victory trainer; high-speed training planes of plastic-bonded plywood save precious aluminum for America's bombers and fighters. il Mod Plastics 19:42-3 Ja '42

Vulcanized fibre with wood core; Fybr-Tech. Product Eng 12:675 D '41

When is plastic a glue? confusion of terms. Sci Am 166:190+ Ap '42

Wood-plastic airplane parts. C. L. Bates. il Aviation 41:82-3+ Ja '42

Standards

New plywood grade introduced by WPB. Eng N 129:63 Jl 9 '42

Plywood; hardwood and eastern red cedar. diags 2d ed U S Nat Bur Stand Commercial Standard CS35-42:1-24; pa 10c Supt. of doc. '42

Strength

Plywood; strength values and computations. Aviation 41:161 S '42

PLYWOOD—Strength—*Continued*

Strength of plastic-bonded plywood. G. B. Parsons. bibliog il diags Mod Plastics 19:74-9, 110, 112+ Ag '42; Same. Aero Digest 41:160, 162, 165+ Jl; 140+ Ag '42

Testing

Bearing strength; plastics and plywood. J. Bond. il Mod Plastics 19:70-3+ Jl '42

Heavy load tests on a plywood girder; civil engineering laboratory of Carnegie institute of technology. C. W. Muhlenbruch. il diags Eng N 129:31-3 Jl 2 '42; Abstract. Engineering 154:128 Ag 14 '42

PNEUMATIC control

Gauging; developments in the well-tried pneumatic principle. il Automobile Eng 32:263-5 Jl '42

Hydraulic transmission; fluidgear. diags Automobile Eng 32:363-5 S '42

Improved air clutch for forging machines. il Comp Air M 47:6720 Ap '42

Pneumatic mechanism for circuit breaker. F. B. Johnson. diag Elec W 116:1604+ N 15 '41

Pneumatic transfer expedites plating operations. il Comp Air M 47:6872 O '42

R. G. Haskins develops air-controlled holding fixtures for clamping work in air-controlled tapping machines. il Am Mach 86:540+ My 28 '42

See also

Air compressors
Compressed air

PNEUMATIC conveying

Coal and ash handling. il diags Engineering 153:345-6 My 1 '42

Expediting blueprint delivery in a large aircraft plant. il Mach 49:158-9 S '42

Relaying shavings. R. L. Grayford. diags Sheet Metal Worker 33:31 Ap '42

PNEUMATIC hammers

Supplies torsional impact; patent assigned to the Chicago pneumatic tool company. diags Machine Design 14:132+ S '42

Testing

Burklyn air hammer test stand. il Iron Age 150:41 Jl 9 '42

PNEUMATIC machinery

Compression and expansion of air. A. L. Egan. diags Engineering 153:423-4, 443-5 My 29-Je 5 '42

Dual pneumatic drive speeds automatic machine; typewriter for duplicating letters from rolls. H. W. Kloid. il diags Machine Design 14:99-102+ Ap '42

Mechanical brain aids Canadian census takers; Belisle sorter-tabulator for punched cards. R. N. Bryan. il Comp Air M 47:6793-4 Jl '42

Pneumatic press for precision pipe bending. il Engineer 173:470 Je 5 '42

PNEUMATIC tools

Air-hydraulic riveting intensifier. il Engineer 173:316 Ap 10 '42; Automobile Eng 32:190, 191 My '42; Engineering 153:376 My 8 '42

Care and maintenance of portable pneumatic tools. diag Mach 49:165-6 O '42

Getting the most out of your air tools. plans Comp Air M 47:6790-2 Jl '42; Same. Steel 111:106, 108 S 7 '42

How vibrating tools affect some workers. Nat Safety N 46:97 Ag '42

Keep them snagging! keeping water out of pneumatic tools used to clean steel castings. C. Blake. il Foundry 70:121+ S '42

Maintenance and conservation of electric and pneumatic portable tools. il Mach 49:153 S '42

Pneumatic tools; power cost calculations; abstract. D. Y. Marshall. Mech Handling 29:70-1 Ap '42

Portable tool maintenance. Iron Age 150:60-1 Jl 30 '42

PNEUMATIC transmission

1942 gear shift developments. P. M. Heldt. il diags Automotive Ind 85:32-43 D 1 '41

PNEUMATICS

See also

Aerodynamics	Gases
Air flow	Sound
Compressed air	

PNEUMOCOCCI

Chemotherapeutic action of a N-phosphoryl derivative of 4-4′-diaminodiphenylsulfone. M. I. Smith, S. M. Rosenthal and E. L. Jackson. bibliog Pub Health Rep 57:1534-42 O 9 '42

Nutritional deficiency and infection; influence of riboflavin or thiamin deficiency on fatal experimental pneumococcal infection in white mice. J. G. Wooley and W. H. Sebrell. bibliog Pub Health Rep 57:149-61 Ja 30 '42

Reversal of pneumococcus Quellung by digestion of the antibody with papain. G. M. Kalmanson and J. Bronfenbrenner. bibliog Science 96:21-2 Jl 3 '42

Structure and antipneumococcic activity in the cinchona series. A. G. Renfrew and L. H. Cretcher. Chem R 30:49-68 bibliog (115 references, p65-8) F '42

PNEUMOCONIOSIS. See Lungs—Dust diseases; Silicosis

PNEUMONIA

Cinchona alkaloids in pneumonia; some ethers of 6′-(β-thiolethyl)-apocupreine. R. S. Tipson and L. H. Cretcher. bibliog Am Chem Soc J 64:1162-4 My '42

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1235-75 Ag 21 '42

Incidence of pneumonia as recorded in the National health survey. R. H. Britten. Pub Health Rep 57:1479-94 O 2 '42

Is acute lobar pneumonia a complication of silicosis? D. C. Pierpont. J Ind Hygiene 24:238-9 O '42

Metropolitan Life statisticians study pneumonia. Spectator (Life ed) 147:21 N 20 '41

New sulfa drugs are boon to pneumonia victims among workers. Ins Field (Life ed) 71:8 Mr 27 '42

Unidentified virus which produces pneumonia and systemic infection in mice. C. Nigg. Science 95:49-50 Ja 9 '42

PNEUMONIC plague. See Plague

PODOCARPIC acid

Structure and configuration of resin acids; podocarpic acid and ferruginol. W. P. Campbell and D. Todd. bibliog Am Chem Soc J 64:928-35 Ap '42

POINT-of-sale advertising. See Advertising, Point-of-sale

POINT rationing. See Rationing

POISON gas. See Gases, Asphyxiating and poisonous: Mustard gas

POISON ivy

New base for the protective ointment for the prevention of poison ivy dermatitis. L. Schwartz, J. E. Dunn and F. H. Goldman. Pub Health Rep 57:578-88 Ap 17 '42

New chemical, ammonium sulfamate, for killing poison ivy. Science 95:sup12 My 1 '42

Poison ivy infection prevented by protective ointment. Sci Am 167:22 Jl '42

POISONOUS plants

Identification of selenium indicator species of astragalus by germination tests. S. F. Trelease. Science 95:656-7 Je 26 '42

See also

Poison ivy

POISONS

Effect of the inhalation of hydrogen chloride. W. Machle and others. diag J Ind Hygiene 24:222-5 O '42

Health hazard of refrigerants. F. W. Hutchinson. Heat & Ven 39:21-3 Je '42

POISONS—*Continued*

Physiologically active phenethylamines containing a tertiary hydroxyl. C. M. Suter and A. W. Weston. bibliog Am Chem Soc J 64:2451-2 O '42

Poison antidotes; effects of common economic poisons and emergency treatment. J. C. Munch. Soap & San Chem 18:100-1 N '42

See also

Arsenic
Benzene poisoning
Cadmium poisoning
Carbon monoxide poisoning
Curare
Fluoride poisoning
Gases, Asphyxiating and poisonous
Hydrocyanic acid
Insecticides
Lead arsenate
Lead poisoning
Methanol poisoning
Methyl bromide
Nicotine
Selenium poisoning

POISONS, Industrial

Aromatic amino and nitro compounds, their toxicity and potential dangers; a review of the literature. W. F. Von Oettingen. (Pub. health bul. 271) 221p bibliog(p188-216) U.S. Public health service, Washington; pa 25c Supt. of doc. '41

Cases of poisoning in war plants. Science 96:sup10 S 18 '42

Chemical poisoning from ammonium bichromate. Inland Ptr 108:69 Mr '42

Combating chronic poisoning in chemical operations. W. M. Pierce. diag Chem & Met Eng 49:80-1+ Ag '42

Dangers connected with the handling of metals; abstract. R. A. Kehoe. Science 96:sup8 O 30 '42

Determination of atmospheric contaminants; methyl cellosolve. H. B. Elkins, E. D. Storlazzi and J. W. Hammond. J Ind Hygiene 24:229-32 O '42

Ethylene dichloride; hazards and precautions. Nat Safety N 46:52, 54 Ag '42

Fulminate of mercury; hazards and precautions. bibliog Nat Safety N 44:38, 40+ D '41

Industrial hygiene at work in defense industries. W. A. Cook. Metal Finishing 40:19-23+ Ja '42; Same. Safety Eng 83:41-2 Mr; 47-50 Ap; 40-2, 44 My '42

New products bring new health hazards. P. A. Brehm. Nat Safety N 46:34, 38+ Ag '42

Occupational disease hazard; evaluation in the field. W. A. Cook. bibliog Ind Med 11:193-7 Ap '42

Preventing heavy metal poisoning in industrial operations. W. M. Pierce. bibliog il Chem & Met Eng 49:141-3 S '42

Response of guinea pigs and rats to repeated inhalation of vapors of mesityl oxide and isophorone. H. F. Smyth, jr., J. Seaton and L. Fischer. bibliog J Ind Hygiene 24:46-50 Mr '42

Safety limits for toxic substances. J. F. McMahon. Factory Management 100:102 O '42

Some pharmacological properties of the tergitol penetrants. H. F. Smyth, jr, J. Seaton and L. Fischer. bibliog J Ind Hygiene 23:478-83 D '41

Toxicity and potential dangers of nitrous fumes. W. F. von Oettingen. (Pub. health bul. 272) 34p bibliog(p30-4) U.S. Public health service, Washington; pa 10c Supt. of doc. '41

Toxicology of acrylonitrile (vinyl cyanide). H. C. Dudley and P. A. Neal. bibliog diags J Ind Hygiene 24:27-36 F '42

Trichlorethylene; hazards and precautions. Nat Safety N 45:54, 56 My '42

See also

Aniline poisoning
Benzene poisoning
Cadmium poisoning
Carbon monoxide poisoning
Hydrogen sulfide
Lead poisoning
Mercury poisoning
Radium poisoning
Selenium poisoning
Tellurium—Physiological effect
Toluene—Physiological effect
Trichloroethylene

POISSON distribution

Limiting form of Poisson's distribution. E. J. Gumbel. Phys R 60:689 N 1 '41

POISSON'S formula

Poisson's exponential binomial limit; Table I, individual terms; Table II, cumulated terms. E. C. Molina. 45p, 47p pa $2.75 Van Nostrand '42

POKEWEED. See Phytolaccaceae

POLAND

See also

World war, 1939—
Poland

Biography

Great men and women of Poland. S. P. Mizwa, ed. 397p $4 Macmillan '42

Economic conditions

Poland's needs. Economist 142:40-1 Ja 10 '42

Foreign relations

Russia

Poland and Russia. Economist 141:718-19 D 13 '41

German occupation

Black book of Poland. 615p $3 Putnam '42

First of the free. Economist 143:291-2 S 5 '42

German occupation of Poland; extract of note addressed to the allied and neutral powers. 240p $2 Greystone press, New York '42

German persecutions in Poland. Science 94:540-1 D 5 '41

New order in Poland. S. Segal. 286p $3 Knopf '42

Technique of subjection. Economist 142:783-4 Je 6 '42

Social conditions

Social policy in Poland. Economist 143:46 Jl 11 '42

POLANDERS in Germany

Racial discrimination in Germany in respect of labour legislation. Int Labour R 45:435-9 Ap '42

POLARIMETERS

Polarimetry, saccharimetry and the sugars. F. J. Bates and others. bibliog il diags U S Nat Bur Stand Circ C440:1-810; $2 Supt. of doc. '42

Sugar identified by new polarizing instrument. il Sci Am 165:341-2 D '41

See also

Spectropolarimeters

POLARISCOPE

Polarimetry, saccharimetry and the sugars. F. J. Bates and others. bibliog il diags U S Nat Bur Stand Circ C440:1-810 '42

Polariscope; a new aid in rail-joint design. W. E. Gadd and H. L. Lansing. il Ry Age 112:157-9+ Ja 10 '42

Polariscope as a glass factory instrument. V. C. Swicker. il Glass Ind 23:13-18 Ja '42

POLARITY (chemistry)

Mechanism of aromatic side-chain reactions, with special reference to the polar effects of substituents; physical and chemical evidence relating to the polar effect of *o*-methyl substituents in derivatives of the type $C_6H_2Me_3\cdot CO\cdot CH_2R$. J. W. Baker and W. T. Tweed. Chem Soc J p796-802 D '41

Mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents; the aldehydecyanohydrin reaction; evidence for the mesomeric effects of alkyl groups. J. W. Baker and M. L. Hemming. diags Chem Soc J p191-8 Mr '42

POLARIZATION (light)

Brewsterian angle and refractive indices. A. H. Pfund. diag Opt Soc Am J 31:679-82 N '41

Effect of polarized light on the absorption spectrum of the neodymium ion in crystals. E. L. Kinsey and R. W. Krueger. il Phys R 62:82 Jl 1 '42

Microscope identifies compounds by polarized light. il Sci Am 166:190 Ap '42

Miniature camera. H. C. McKay. Am Phot 36:40-2+ Mr '42

POLARIZATION (light)—*Continued*

New calculus for the treatment of optical systems. R. C. Jones; H. Hurwitz, jr. Opt Soc Am J 31:485-503; 32:486-93 bibliog(p493) Jl '41, Ag '42

Polarimetry, saccharimetry and the sugars. F. J. Bates and others. bibliog il diags U S Nat Bur Stand Circ C440:1-810; $2 Supt. of doc. '42

Polarization of atmospheric haze. H. Neuberger. Science 94:485-6 N 21 '41

Polarization of light scattered by isotropic opalescent media. F. Perrin. bibliog J Chem Phys 10:415-27 Jl '42

Polarization of luminescence in crystals. B. V. Thosar. bibliog J Chem Phys 10:246-7 Ap '42

Seeing with polarized headlamps. V. Roper and K. D. Scott. bibliog Illum Eng 36:1205-13; Discussion. 1213-18 D '41

See also
Depolarization (light)
Polaroid

POLARIZATION, Dielectric

Anomalous dispersion of dipolar ions. H. O. Marcy, 3d and J. Wyman, jr. bibliog diag Am Chem Soc J 63:3388-97 D '41

Dielectric relaxation as a chemical rate process. W. Kauzmann. bibliog Rs Mod Phys 14:12-44 Ja '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

Electric polarisation of mercurous trichloroacetate and of quinol bistrichloroacetate. N. R. Davidson and L. E. Sutton. Chem Soc J p565-7 S '42

Elimination of errors due to electrode polarization in measurements of the dielectric constants of electrolytes. T. M. Shaw. bibliog il diags J Chem Phys 10:609-17 O '42

Magnitude of the solvent effect in dipole-moment measurements; determination of distortion polarisation and its additivity in the alkyl and aryl halides. A. Audsley and F. R. Goss. Chem Soc J p864-73 D '41

See also
Electric moments

POLARIZATION, Electrolytic

Electrode polarization in dielectric constant measurements. W. G. Smiley and A. K. Smith. bibliog Am Chem Soc J 64:624-8 Mr '42

Fundamentals of science relating to electroplating. Metal Finishing 39:675-6; 40:26-7 D '41-Ja '42

POLARIZATION of rays

Quenching and depolarization of mercury resonance radiation by the rare gases. L. O. Olsen. Phys R 60:739-42 N 15 '41

See also
Depolarization
Polarization (light)

POLAROGRAPHS

Construction and operation of a polarograph. N. H. Furman, C. E. Bricker and E. B. Whitesell. il diags plan Ind & Eng Chem Anal ed 14:333-40 Ap 15 '42

Polarograph; its application to industrial chemical analysis. D. L. Masters. bibliog diags Chem Age (Lond) 46:271-2, 279-80 My 30-Je 6 '42

Polarograph reading directly in precentage; analysis of lead arsenate. B. P. Caldwell and S. Reznek. bibliog diag Ind & Eng Chem Anal ed 14:187-9 F 15 '42

Research with the polarograph. O. H. Müller. bibliog diag Ind & Eng Chem Anal ed 14:99-105 F 15 '42

POLAROGRAPHY

Amperometric titrations; amperometric determination of phosphate with uranyl acetate. I. M. Kolthoff and G. Cohn. bibliog Ind & Eng Chem Anal ed 14:412-18 My 15 '42

Anomalus electroreduction of water at the dropping mercury electrode in relatively concentrated salt solutions. E. F. Orlemann and I. M. Kolthoff. bibliog diag Am Chem Soc J 64:833-8 Ap '42

Application of the dropping-mercury electrode to the investigation of the polyhydroxy acids and lactones. H. Matheson, H. S. Isbell and E. R. Smith. bibliog diags J Research Nat Bur Stand 28:95-131 Ja '42

Chemical analysis; polarographic theory and procedure. H. J. S. Sand. il Elec R (Lond) 131:297-300 S 4 '42

Chemistry of vitamin E; behavior at the dropping mercury electrode of quinones related to vitamin E. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:644-5 Mr '42

Chemistry of vitamin E; the amperometric titration of α-tocopherol with auric chloride at the dropping mercury electrode. L. I. Smith, I. M. Kolthoff and L. J. Spillane. bibliog Am Chem Soc J 64:646-8 Mr '42

Chemistry of vitamin E; the behavior of tocopherols at the dropping mercury electrode. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:447-51 F '42

Constant mercury level for the dropping mercury electrode. A. Langer. diag Ind & Eng Chem Anal ed 13:794 N 15 '41

Determination by the dropping-mercury-electrode procedure of lead, cadmium, and zinc in samples collected in industrial-hygiene studies. F. L. Feicht, H. H. Schrenk and C. E. Brown. bibliog pls U S Bur Mines Rep of Invest 3639:1-20 '42

Determination of small amounts of iodide in photographic developers. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. Ind & Eng Chem Anal ed 14:314-16 Ap 15 '42

Dropping mercury electrode. G. J. Kahan. bibliog diags Ind & Eng Chem Anal ed 14:549 Jl 15 '42

Dropping mercury electrode in acetic acid; discontinuous current-voltage curves. C. B. Bachman and M. J. Astle. bibliog Am Chem Soc J 64:1303-9 Je '42

Dropping mercury electrode in acetic acid; electrocapillary curves and the theory of maxima. G. B. Bachman and M. J. Astle. bibliog Am Chem Soc J 64:2177-81 S '42

Dust analysis and occupational diseases. Science 96:sup7 Jl 31 '42

Elimination of the water wave in polarographic work at relatively high indifferent electrolyte concentrations. I. M. Kolthoff and E. F. Orlemann. Ind & Eng Chem Anal ed 14:321-3 Ap 15 '42

Europium and ytterbium in rare earth mixtures; polarographic determination. H. A. Laitinen and W. A. Taebel. Ind & Eng Chem Anal ed 13:825-9 N 15 '41

Factors to be considered in quantitative polarography. I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:195-200 Mr 15 '42

Indirect polarographic determination of phosphorus in biological material. A. Stern. bibliog Ind & Eng Chem Anal ed 14:74-7 Ja 15 '42

Iodide analysis in an MQ developer. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. bibliog Soc Motion Picture Eng J 38:180-7 F '42

Measuring the concentration of dissolved oxygen in dairy products; a voltammetric method. G. H. Hartman and O. F. Garrett. bibliog diag Ind & Eng Chem Anal ed 14:641-4 Ag 15 '42

Polarograph; its application to industrial chemical analysis. D. L. Masters. bibliog diags Chem Age (Lond) 46:271-2, 279-80 My 30-Je 6 '42

Polarographic analysis; a review for the metallurgical analyst. A. C. Coates and R. Smart. bibliog il Chem & Ind 60:778-84 N 1 '41

Polarographic analysis; application of the method to aluminium and its alloys. A. C. Coates and R. Smart. diag Soc Chem Ind J 60:249-51 O '41; Discussion. W. C. Davies. Chem & Ind 60:883-4 D 13 '41; Reply. 61:41-2 Ja 17 '42

POLAROGRAPHY—*Continued*

Polarographic curve of serum from rats fed *p*-dimethylaminoazobenzene. H. P. Rusch and D. L. Miner. bibliog Science 94:468 N 14 '41

Polarographic determination of arsenic in biological material. K. Bambach. bibliog Ind & Eng Chem Anal ed 14:265-7 Mr 15 '42

Polarographic determination of citrinin. H. W. Hirschy and P. M. Ruoff. Am Chem Soc J 64:1490-1 Je '42

Polarographic determination of nitrates in blood and urine. E. W. Scott and K. Bambach. Ind & Eng Chem Anal ed 14:136-7 F 15 '42

Polarographic determination of potassium, sodium, and lithium. I. Zlotowski and I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:473-7 Je 15 '42

Polarographic investigation of rhenium compounds; oxidation of -1 rhenium at the dropping electrode and the potential of the Re^{+2}-Re^{-1} couple. J. J. Lingane. bibliog diag Am Chem Soc J 64:2182-90 S '42

Polarographic investigation of rhenium compounds; reduction of perrhenate ion at the dropping mercury electrode. J. J. Lingane. bibliog Am Chem Soc J 64:1001-7 Ap '42

Polarographic reduction of osmium tetroxide. W. R. Crowell, J. Heyrovsky and D. W. Engelkemeir. diag Am Chem Soc J 63:2888-90 N '41

Polarographic studies; determination of antimony and bismuth. J. E. Page and F. A. Robinson. diag Soc Chem Ind J 61:93-6 Je '42

Polarographic study of *o*-phthalic acid and phthalates. N. H. Furman and C. E. Bricker. bibliog Am Chem Soc J 64:660-8 Mr '42

Rapid polarographic estimation of lead in urine. G. Reed and V. A. Gant. bibliog Ind Med 11:107-9 Mr '42

Reduction of iodate and bromate at the dropping mercury electrode in neutral and basic media and the effects of salts upon the current-voltage curves. E. F. Orlemann and I. M. Kolthoff. Am Chem Soc J 64:1970-7 Ag '42

Reduction of iodate and bromate in acid medium at the dropping mercury electrode. E. F. Orlemann and I. M. Kolthoff. diag Am Chem Soc J 64:1044-52 My '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; aromatic polynuclear hydrocarbons. S. Wawzonek and H. A. Laitinen. bibliog Am Chem Soc J 64:2365-8 O '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; phenyl substituted olefins and acetylenes. H. A. Laitinen and S. Wawzonek. bibliog Am Chem Soc J 64:1765-8 Ag '42

Research with the polarograph. O. H. Müller. bibliog diag Ind & Eng Chem Anal ed 14:99-105 F 15 '42

Simplified calibration of dropping mercury electrodes. J. J. Lingane. diag Ind & Eng Chem Anal ed 14:655 Ag 15 '42

Simplified dropping mercury electrode for polarographic analysis. R. C. McReynolds. bibliog il diag Ind & Eng Chem Anal ed 14:586-7 Jl 15 '42

Synthetic aged developers by analysis. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. bibliog Soc Motion Picture Eng J 38:188-206 F '42

Validity of the Ilkovič equation in the polarographic analysis of alkali metals and the characteristics of the alkali waves in various media. I. Zlotowski and I. M. Kolthoff. bibliog Am Chem Soc J 64:1297-1301 Je '42

POLAROID

Crystal structure of pond ice observed with polaroid spectacles. W. S. Von Arx. J Chem Educ 19:478-9 O '42

POLE setting

Explosives erect a pole line. J. L. Mattox. il Explosives Eng 20:138-41 My '42

POLES

See also
Electric lines—
Poles and towers

POLICE

Baltimore police survey. B. Smith. 155p $1 Inst. of public administration, New York '41

Elements of police science. R. M. Perkins. 651p lea $4.75 Foundation press, 222 W. Adams st, Chicago '42

Manual of procedure for police civil service commissions in Pennsylvania boroughs and townships of the first class. 60p pa 50c Pennsylvania government administration service, 34 Blanchard hall, 36th st. & Walnut st, Philadelphia '42

Police administration in Virginia. G. A. Warp. 65p bibliog pa 80c Bur. of public administration, box 1167, University station, Charlottesville, Va. '42

State and provincial police; a study in police functioning in the United States and Canada. D. G. Monroe. 251p bibliog(p225-45) $2 Int. assn. of chiefs of police, 1827 Orrington av, Evanston, Ill. '41

See also
Crime and criminals
Traffic officers

Salaries

Salaries and hours of labor in municipal police departments, July 1, 1938; v 3, East north central cities. U S Bur Labor Statistics Bul 685:1-53; pa 10c Supt. of doc. '41

Salaries and hours of labor in municipal police departments, July 1, 1938; v 7, West south central cities. U S Bur Labor Statistics Bul 685:1-24; pa 10c Supt. of doc. '41

POLICE departments

Salaries and hours of labor in municipal police departments, July 1, 1938; v 3, East north central cities. U S Bur Labor Statistics Bul 685:1-53; pa 10c Supt. of doc. '41

Salaries and hours of labor in municipal police departments, July 1, 1938; v 7, West south central cities. U S Bur Labor Statistics Bul 685:1-24; pa 10c Supt. of doc. '41

POLICE stations

City hall-fire station-police station, Chickasha, Okla. il plans Arch Rec 90:61 D '41

POLIOMYELITIS. See Infantile paralysis

POLISH institute of arts and sciences in America

Polish institute of arts and sciences established in New York city. Science 95:547 My 29 '42

POLISHING

Buffing before plating to improve rust resistance. Iron Age 149:49-51 Ap 16 '42

Coated abrasives, a tool. E. B. Gallaher. Metal Finishing 40:51-4+ Ja '42

Fixed burnishing. W. H. Young. il diags Iron Age 149:48-51 Ja 22 '42

Mechanical polishing with a film of abrasive. F. L. Stillwell. diag Econ Geol 37:76-8 Ja '42

Micro and macro structures of gray iron and meehanite; grinding, polishing and etching procedures; new photographing technique. C. R. Austin and M. M. Lipnick. il Iron Age 149:72-4 My 7 '42

Polishing brush eliminates stress concentration points; abstracts. R. O. Peterson. il Sci Am 167:107-8 S '42; Iron Age 150:54 O 8 '42

Polishing of cast-iron micro-specimens and the metallography of graphite flakes. H. Morrogh. bibliog Iron & Steel Inst J 143:195-205, pl 28-37 no 1 '41; Same cond. Engineering 151:297-9, pl 23 Ap 11 '41; Discussion. Iron & Steel Inst J 143:254-86, pl 47A-47B no 1 '41

X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research Nat Bur Stand 29:177-81, pl 1-4 Ag '42

See also
Abrasives
Glass—Polishing
Grinding
Metal finishing
Sand blast

POLISHING, Electrolytic

Anodic treatment of plain carbon steels. R. L. Imboden and R. S. Sibley. bibliog il Electrochem Soc Trans 82 (preprint 18): 195-207 O '42

Electrolytic polishing of brass and copper. G. J. Foss, jr. and L. Shiller. il Metal Prog 42:77-9+ Jl '42

Electrolytic polishing of metals; tabulation. G. E. Pellissier, jr., H. Markus and R. F. Mehl, comps. bibliog Metal Prog 42:709 O '42

Electrolytic polishing of silver. L. I. Gilbertson and O. M. Fortner. il Electrochem Soc Trans 81 (preprint 5):41-50 Ap '42

Electropolishing stainless steel. C. L. Faust and H. A. Pray. Steel 109:80, 82+ N 17 '41; Abstract. Iron Age 147:57-60 Je 26 '41

Improved cell for electrolytic polishing. O. E. Brown and C. N. Jimison. il diags Metal Prog 40:298-9 S '41; Same abr. Mech Eng 64:140 F '42

Polishing of steel by electrolytic methods. C. B. F. Young and W. L. Brytczuk. bibliog il diags Metal Finishing 40:237-41, 306-12+ My-Je '42

Simplified electro-polishing of steel specimens. R. W. Parcel. il Metal Prog 42:209-12 Ag '42

POLISHING machines

Hammond cylindrical polisher. il Mach 48:168 Mr '42

Hammond rotary automatic polisher. il Metal Finishing 40:30 Ja '42

How to maintain constant linear speed and tension in material being unwound from one reel onto another; reel drive of strip grinding and polishing machine. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110:78, 80 Mr 30 '42

See also
Grinding machines
Polishing wheels

POLISHING materials

Automobile cleaners and polishes. C. T. Small. il Chem Ind 50:806-9 Je '42

Consumer angle; a buyer's view of insecticides, disinfectants, waxes, cleaners, moth products, etc. E. Freedman. Soap & San Chem 18:108-9 Ja '42

Offer new federal specifications for furniture polish, auto polish, floor sealer, carnauba wax. Soap & San Chem 18:131 Jl '42

See also
Abrasives
Shoe polish
Silver polish

POLISHING wheels

Expanding abrasive and polishing wheels. il Metal Finishing 39:677 D '41

Plastics competition award to Columbian rope co.; abrasive disks and bobbin heads. il Mod Plastics 19:114-15 N '41

POLITICAL ethics

See also
Political psychology

POLITICAL parties

Partisan politics and administrative agencies. E. E. Schattschneider. Ann Am Acad 221: 29-32 My '42

Party government. E. E. Schattschneider. college ed 219p bibliog(p211-14) $1.25 Farrar '42

Political handbook of the world; parliaments, parties and press as of Jan. 1, 1942. W. H. Mallory, ed. 202p $2.50 Harper '42

United States

American parties and elections. E. M. Sait. 3d ed 790p $4 Appleton-Century '42

Changes in Congress since 1912. Barron's 22:1 N 2 '42

Politics and political organizations in America. T. W. Cousens. 617p bibliog(p541-62) $4 Macmillan '42

Politics, parties and pressure groups. V. O. Key, jr. 814p $3.75 Crowell '42

POLITICAL pressure. See Pressure, Political

POLITICAL psychology

Psychopolitics. I. A. Richards. Fortune 26: 108-9, 114, 116 S '42

POLITICAL science

After chaos back to political science. J. Masaryk. Ann Am Acad 222:103-8 Jl '42

Political scientist and world problems. D. W. Brogan. Ann Am Acad 222:13-20 Jl '42

See also
Administration, Public
Citizenship
Civil service
Commercial policy
Communism
County government
Democracy
Economic policy
Government regulation of industry
Industry and state
International law
Law
Municipal government
Public opinion
Railroads and state
Socialism
State governments
Taxation

POLITICS, Practical

Politics, parties and pressure groups. V. O. Key, jr. 814p $3.75 Crowell '42

See also
Business—Political aspects
Political parties

POLL tax

Poll tax yield discussed. Comm & Fin Chr 154:1544 D 18 '41

POLLARD, Henry Douglas, 1872-1942

Sketch. por Ry Age 112:213+ Ja 17 '42

POLLEN

Electrophoretic and ultracentrifugal analysis of hay-fever-producing component of ragweed pollen extract. H. A. Abramson, D. H. Moore and H. H. Gettner. bibliog il J Phys Chem 46:192-203 Ja '42

Pollen concentration of the atmosphere. A. O. Dahl and R. V. Ellis. bibliog diag Pub Health Rep 57:369-77 Mr 13 '42

POLONIUM

Large scale extraction of polonium from active lead and formation of radioactive electrode alloys. J. H. Dillon and J. N. Street. bibliog il J Ap Phys 13:189-98 Mr '42

Polonium sparking plugs. Automobile Eng 32:330 Ag '42

POLYAMIDES. See Amides

POLYBUTENE. See Butene

POLYENES

Contribution to the stereochemistry of diphenylpolyenes. L. Zechmeister and A. L. LeRosen. bibliog Science 95:587-8 Je 5 '42

Synthesizing drying oils; process of producing conjugation in unconjugated polyenes. G. O. Burr. Oil Paint & Drug Rep 140:3+ D 29 '41; 141:3+ Ja 5; 7+ Ja 12; 7, 38A-38B Ja 19 '42

POLYGALA. See Milkworts

POLYGON soil forms

Some types of polygonal surface markings in Spitsbergen. O. Gatty, W. L. S. Fleming and J. M. Edmonds. bibliog Am J Sci 240: 81-92 F '42

POLYIODIDES. See Iodides

POLYISOPRENES. See Isoprene

POLYMERIZATION

Addition polymerization catalyzed by substituted acyl peroxides. C. C. Price, R. W. Kell and E. Krebs. bibliog Am Chem Soc J 64:1103-6 My '42

Catalysts for the polymerization of benzyl chloride. O. C. Dermer and E. Hooper. Am Chem Soc J 63:3525-6 D '41

Catalytic polymerization of olefins in the presence of phosphoric acid. A. Farkas and L. Farkas. bibliog diag Ind & Eng Chem 34:716-21 Je '42

Constitution of three-dimensional polymers and the theory of gelation. P. J. Flory. bibliog J Phys Chem 46:132-40 Ja '42

Copolymerization of alkyl acrylates and alkyl maleates; some kinetic studies on copolymerization. C. S. Marvel and R. L. Frank. Am Chem Soc J 64:1675-8 Jl '42

POLYMERIZATION—*Continued*

Corona discharge on liquid dielectrics; materials responsible for increases in power factor. J. Sticher and J. D. Piper. bibliog diag Ind & Eng Chem 33:1567-74 D '41

High polymeric chemistry of fibers made by Carothers. H. Boxser. diags Am Dyestuff Rep 31:373-5+ Ag 3 '42

Intermolecular forces and mechanical behavior of high polymers. H. Mark. bibliog(73 references) Ind & Eng Chem 34:1343-8 N '42

Ketone plastics; a study of methyl isopropenyl ketone. B. Rutovsk. Chem Age (Lond) 47:323 O 10 '42

Lion revamps recovery system to better supply polymerization unit. W. T. Ziegenhain. flow diag il Oil & Gas J 40:37+ D 4 '41

Methyl methacrylate polymerization; peroxide catalysis and the oxidation of hydroquinine inhibitor. H. N. Alyea, J. J. Gartland, jr. and H. R. Graham, jr. Ind & Eng Chem 34:458-60 Ap '42

Molecular size distribution in three dimensional polymers; gelation. P. J. Flory. bibliog Am Chem Soc J 63:3083-90 N '41

Polymerization of drying oils; comparative rates of polymerization of esters of isomeric octadecatrienoic acids at 275°C. in vacuum. W. C. Ault and others. bibliog Ind & Eng Chem 34:1120-3 S '42

Polymerization of ethylene photosensitized by 5^1P_1 cadmium atoms. E. W. R. Steacie and D. J. LeRoy. bibliog il diag J Chem Phys 10:22-34 Ja '42

Polymerization of some derivatives of trimethylaluminum. N. Davidson and H. C. Brown. bibliog Am Chem Soc J 64:316-24 F '42

Polymerization of styrene catalyzed by *p*-bromobenzenediazonium hydroxide. C. C. Price and D. A. Durham. bibliog Am Chem Soc J 64:2508-9 O '42

Polymerization of styrene in thymol solution. J. K. Moore, R. E. Burk and H. P. Lankelma. bibliog Am Chem Soc J 63:2954-7 N '41

Structure of copolymers of vinyl chloride and vinyl acetate. C. S. Marvel and others. bibliog diag Am Chem Soc J 64:2356-62 O '42

Structure of substituted ethylenes and their isomerization, polymerization and peroxide addition reactions. R. A. Harman and H. Eyring. bibliog J Chem Phys 10:557 Ag '42

Studies in gaseous hydrogenation and polymerization reactions. H. D. Burnham and R. N. Pease. bibliog Am Chem Soc J 64:1404-10 Je '42

Zinc photosensitized reactions of ethylene. H. Habeeb, D. J. LeRoy and E. W. R. Steacie. bibliog il J Chem Phys 10:261-7 My '42

Patents

German patents relating to vinyl polymers. L. Voge. India Rubber W 105:37-8, 157-8, 471-2 O-N '41, F '42

German patents relating to vinyl polymers; new series. M. Hoseh. bibliog India Rubber W 105:571-2; 106:43-4, 139-40, 248-9, 357-8, 459-60, 629; 107:171-2 Mr-S, N '42 (to be cont)

POLYMERS

Constitution of three-dimensional polymers and the theory of gelation. P. J. Flory. bibliog J Phys Chem 46:132-40 Ja '42

Copolymerization of alkyl acrylates and alkyl maleates; some kinetic studies on copolymerization. C. S. Marvel and R. L. Frank. Am Chem Soc J 64:1675-8 Jl '42

Cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1192-9 O '42

Effect of temperature and solvent type on the intrinsic viscosity of high polymer solutions. T. Alfrey, A. Bartovics and H. Mark. bibliog Am Chem Soc J 64:1557-60 Jl '42

Electrical properties of solids; plasticized polyvinyl chloride. D. J. Mead, R. L. Tichenor and R. M. Fuoss. bibliog Am Chem Soc J 64:283-91 F '42

Films of polymer resins. S. Voyutski and E. Dzyadel. Chem Age (Lond) 45:302 D 13 '41

Frictional phenomena; viscosity of colloidal solutions; application to synthetic polymers. A. Gemant. bibliog diags J Ap Phys 13:90-6 F '42

High polymeric chemistry of fibers made by Carothers. H. Boxser. diags Am Dyestuff Rep 31:373-5+ Ag 3 '42

High polymeric reactions, their theory and practice. H. F. Mark and R. Raff. 476p $6.50 Interscience publishers, New York '41

High polymers and new rules. S. Weiner. bibliog J Chem Educ 19:514-16 N '42

Hydroforming process now used on commercial scale. M. H. Arveson. Oil & Gas J 40:53 Ja 15 '42

Industrial progress in synthetic rubberlike polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42

Intermolecular forces and mechanical behavior of high polymers. H. Mark. bibliog(73 references) Ind & Eng Chem 34:1343-8 N '42

Internal structure of synthetic fibers and its influence on their physical properties. E. H. Freund and H. Mark. bibliog diags Rayon 23:515-17, 605-6 S-O '42

Intramolecular condensations in polymers. F. T. Wall. Am Chem Soc J 64:269-73 F '42

Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

Macromolecular properties of linear polyesters; the viscous flow and kinetic interaction in solution of ω-OH-undecanoic self-polyesters. W. O. Baker, C. S. Fuller and J. H. Heiss, jr. bibliog Am Chem Soc J 63:3316-21 D '41

Natural and synthetic high polymers; a textbook and reference book for chemists and biologists. K. H. Meyer. 690p $11 Interscience publishers, 215 4th av, New York '42

Progress in high polymer plastics. H. Mark and others. bibliog il diags Ind & Eng Chem 34:499-79 Ap '42

Random reorganization of molecular weight distribution in linear condensation polymers. P. J. Flory. bibliog Am Chem Soc J 64:2205-12 S '42

Relation between viscosity of solutions and physical properties of high polymers. R. Simha. bibliog J Ap Phys 13:147-53 Mr '42

Relation of dielectric properties to structure of crystalline polymers; linear polyamides. W. O. Baker and W. A. Yager. bibliog Am Chem Soc J 64:2171-7 S '42

Relation of dielectric properties to structure of crystalline polymers; polyesters. W. A. Yager and W. O. Baker. bibliog Am Chem Soc J 64:2164-71 S '42

Solvent properties of isomeric paraffins. E. H. McArdle and A. E. Robertson. bibliog Ind & Eng Chem 34:1005-8 Ag '42

Statistical treatment of crystallization phenomena in high polymers. T. Alfrey and H. Mark. bibliog diag J Phys Chem 46:112-18 Ja '42

Statistics of intramolecular aldol condensations in unsaturated ketone polymers. P. J. Flory. Am Chem Soc J 64:177-9 Ja '42

Stickiness, tackiness, and spinnability; possible molecular interpretation. D. Josefowitz and H. Mark. bibliog diags India Rubber W 106:33-7 Ap '42

Structure of copolymers of vinyl chloride and vinyl acetate. C. S. Marvel and others. bibliog diag Am Chem Soc J 64:2356-62 O '42

Structure of vinyl polymers; the polymer of methyl isopropenyl ketone. C. S. Marvel, E. H. Riddle and J. O. Corner. bibliog Am Chem Soc J 64:92-4 Ja '42

Study of the vapor of propionic acid at 45, 50, 55, 60 and 65°. F. H. MacDougall. Am Chem Soc J 63:3420-4 D '41

Theory of solutions of high polymers. M. L. Huggins. bibliog Am Chem Soc J 64:1712-19 Jl '42

POLYMERS—*Continued*

Thermodynamics of high polymer solutions. P. J. Flory. bibliog J Chem Phys 10:51-61 Ja '42

Three dimensional polymers. P. J. Flory. bibliog Am Chem Soc J 63:3083-100 N '41

Turbidimetric determination of polymerized hydrocarbons in solution. B. Ferguson, jr. and M. D. Snyder. Ind & Eng Chem Anal ed 14:135 F 15 '42

Unsaturation of synthetic rubberlike materials. L. E. Cheyney and E. J. Kelley. bibliog(37 references) Ind & Eng Chem 34:1323-6 N '42

Vinylidene chloride polymers. W. C. Goggin and R. D. Lowry. bibliog flow sheet il diags Ind & Eng Chem 34:327-32 Mr '42

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

Viscosity determination of polymer solutions. D. W. Young and E. H. McArdle. Ind & Eng Chem Anal ed 14:639-40 Ag 15 '42

See also

Molded products
Plastic materials
Resinous products
Rubber, Artificial

POLYMETHINE dyes. See Dyes and dyeing—Chemistry

POLYMORPHISM

Polymorphism of *d*-galactose diethylmercaptal pentaacetate. L. H. Welsh and G. L. Keenan. il Am Chem Soc J 64:183-6 Ja '42

POLYPEPTIDES

Dielectric investigation of polypeptides; the dielectric increments of amino acid polypeptides. W. P. Conner, R. P. Clarke and C. P. Smyth. bibliog diag Am Chem Soc J 64:1379-87 Je '42

Dielectric investigation of polypeptides; the dispersion of simple amino acid polypeptides. W. P. Conner and C. P. Smyth. bibliog diag Am Chem Soc J 64:1870-8 Ag '42

POLYSACCHARIDES

Chemistry of allergens; the amino acid content of active protein and polysaccharidic protein fractions from cottonseed. J. R. Spies. bibliog Am Chem Soc J 63:2994-6 N '41

Constitution of arabo-galactan; the isolation of heptamethyl- and octamethyl-6-galactosidogalactose through partial hydrolysis of methylated arabogalactan. E. V. White. bibliog Am Chem Soc J 64:302-6 F '42

Constitution of the starch synthesised *in vitro* by the agency of potato phosphorylase. W. N. Haworth, R. L. Heath and S. Peat. Chem Soc J p55-8 Ja '42

Nature of the carbohydrate residue in ovomucoid; hydrolysis of the methylated carbohydrate residue. M. Stacey and J. M. Woolley. Chem Soc J p550-5 S '42

New method of end-group assay for laminarin and similarly constituted polysaccharides. V. C. Barry. Chem Soc J p578-81 S '42

Periodic acid as a test for the constitution of polysaccharides. V. C. Barry, T. Dillon and W. McGettrick. Chem Soc J p183-5 F '42

Polysaccharide associated with β-amylase. L. H. Ford and S. Peat. Chem Soc J p856-64 D '41

Serologically active polysaccharide from trichinella spiralis. L. R. Melcher and D. H. Campbell. bibliog Science 96:431-2 N 6 '42

Studies on reactions relating to carbohydrates and polysaccharides; an improved technique for the fractionation of partially methylated glucosides. I. Levi, W. L. Hawkins and H. Hibbert. bibliog diag Am Chem Soc J 64:1957-9 Ag '42

Studies on reactions relating to carbohydrates and polysaccharides; structure of the dextran synthesized by the action of leuconostoc mesenteroides on sucrose. I. Levi, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 64:1959-62 Ag '42

See also

Arabogalactan
Cellulose
Starch
Sugars

POLYSTYRENE. See Styrene

POLYTECHNIC institute of Brooklyn

Polytechnic institute of Brooklyn. E. Hausmann. il J Eng Educ 32:612-14 Ap '42

POLYTHENE. See Ethylene

POLYVINYL acetate. See Vinyl acetate

POLYVINYL alcohol. See Vinyl alcohol

POLYVINYL chloride. See Vinyl chloride

POLYZOA, Fossil

Louisiana tertiary bryozoa. J. H. McGuirt. (Geological bul. 21) 177p bibliog(p171-4) Dept. of conservation, Geological survey, Baton Rouge, La. '41

Stratigraphy, fauna and correlation of the Vincentown formation. K. F. Greacen. (Bul. 52) 83p bibliog(p78-83) Dept. of conservation and development, Trenton, N.J. '41

POMIFERIN

Osage orange pigments; improved separation; establishment of the isopropylidene group. M. L. Wolfrom and J. Mahan. Am Chem Soc J 64:308-11 F '42

Osage orange pigments; oxidation. M. L. Wolfrom and A. S. Gregory. Am Chem Soc J 63:3356-8 D '41

PONTCHARTRAIN, Lake

Marine pipe-line construction methods employed in Lake Pontchartrain crossing. W. B. Poor. il diag map Pet Eng 13:90+ D '41

PONTIAC, Michigan

Rapid transit

Pontiac points the way; wartime traffic problems. R. G. Silbar. il Transit J 86:130-1 Ap '42

PONTOONS

See also

Seaplanes—Floats

PONTOONS, Rubber

Army's rubber floats save truck space. il diags Product Eng 13:624-5 N '42

POOR

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1235-75 Ag 21 '42

See also

Cost of living
Legal aid
Old age pensions
Saving
Unemployment

POOR laws

Missouri

History of poor relief legislation and administration in Missouri. F. Boan. 243p bibliog(p227-36) pa $1.50 Univ. of Chicago press '41

POOR relief

Administration and financing of public relief. F. M. Landers and C. R. Tharp. 35p bibliog(p35) pa 10c Univ. of Michigan, Bur. of government, Ann Arbor '42

History of public assistance in Chicago, 1833-1893. J. Brown. 183p pa $1.50 Univ. of Chicago press '41

See also

Old age pensions
Unemployment—Relief measures

POPE, Sir William Jackson, 1870-1939

Sketch. G. T. Moody. por(pl) Chem Soc J p697-700; Scientific career. W. H. Mills. 700-15 O '41

POPLAR

Hybrid poplars. P. Vogelsang. Paper Tr J 113:38-40 N 13 '41; Same cond. Paper Ind 23:824-6 N '41

Pulping studies on selected hybrid poplars. M. W. Bray and B. H. Paul. Paper Tr J 115:33-8 O 15 '42

POPULATION

French predecessors of Malthus; a study in theory. J. J. Spengler. 398p $4.50 Duke univ. press, Durham, N.C. '42

POPULATION—*Continued*

Investing in a world at war; biological factors seen as a basic cause in humanity's present crisis. A. A. Mol. Barron's 22:20 Ag 3; 7-8 Ag 10 '42

Population changes and their effects. H. L. Duncombe, jr. Harvard Business R 20 no 4: 437-45 [Jl] '42; Abstract. Management R 31:242-3 Jl '42

Population decentralization, 1930-40, and housing, 1940, greater Detroit area. S. E. Walker, ed. 8p Detroit bur. of governmental research, 5135 Cass av, Detroit '42

Realty's realities; permanent redistribution of population and shift in values. Business Week p60+ S 19 '42

Use of city directories in the study of urban populations: a methodological note. W. G. Browder and R. D. McCrum. 29p pa gratis Univ. of Texas, Bur. of research in the social sciences, Austin '42

See also

Birth rate

Immigration and emigration

Migration of workers

Mortality

Statistics

City population estimates as of Aug. 1, 1942; made by local chambers of commerce. Sales Management 51:76 O 10 '42

On certain biases in samples of human populations. J. Cornfield. Am Statis Assn J 37: 63-8 Mr '42

Our hundred billion dollar income and how it's divided by cities and areas; estimates up to Sept. 30, 1942, together with current population estimates for 229 major cities; with pictograph. Sales Management 51:25, 27-30 O 10 '42

Population trends in Chicago and its metropolitan region. H. Hoyt. map W Soc E J 46:288-310 D '41

Proposed annual sample census of population. P. M. Hauser. Am Statis Assn J 37:81-8 Mr '42

Recent shifts in population; the drift toward the metropolitan district, 1930-40. A. H. Hawley and D. J. Bogue. R Econ Statis 24:143-8 Ag '42

Relative efficiencies of various sampling units in population inquiries. M. H. Hansen and W. N. Hurwitz. Am Statis Assn J 37:89-94 Mr '42

Sales Management survey of buying power, 1942; retail sales, effective buying income and other indices of buying power, with census data on population, families, farms, owner-occupied dwellings, rental value. il maps Sales Management 50:9-268 Ap 10 '42

What sugar ration cards tell about population changes. Sales Management 51:82+ O 10 '42

See also

Census—United States

Mortality—Statistics

Occupations—Statistics

Austin, Texas

Population mobility in Austin, Texas, 1929-1931. 78p pa gratis Univ. of Texas, Austin '41

Canada

Population, Canada's problem. S. Cartwright. 34p pa 30c Ryerson press '41

Dallas, Texas

Family mobility in Dallas, Texas, 1923-1938. C. M. Rosenquist and W. G. Browder. 96p Univ. of Texas, Austin '41

Detroit

Changes in population, 1940-30, and in dwelling units, 1940-38, by Detroit census tracts. S. E. Walker. 26p pa 50c Detroit bur. of governmental research, Detroit '41

Europe

Europe: we missed the point; for twenty years we have misread European history. maps Fortune 24:94-7 D '41

Germany

Marriages and births. Economist 143:364 S 19 '42

Measures to increase birth rate in Germany. Monthly Labor R 54:75 Ja '42

Great Britain

Age composition of the population. Monthly Labor R 55:264-7 Ag '42

Future distribution of the industrial population. Engineering 152:312 O 17 '41

Old England; population trends and the birth rate. Economist 142:749-50 My 30 '42

Hawaiian Islands

Minority groups in Hawaii. W. C. Smith. bibliog Ann Am Acad 223:36-44 S '42

Houston, Texas

Family mobility in Houston, Texas, 1922-1938. C. M. Rosenquist and W. G. Browder. 96p Univ. of Texas, Austin '42

Ireland

Irish population statistics. Economist 143: 388 S 26 '42

Missouri

Adjustment of population to rural resources in Missouri. C. E. Lively. maps J Land & Pub Util Econ 18:67-76 F '42

Nebraska

Nebraska population changes: 1930-1940. J. O. Hertzler. (Business research bul. 48) 51p pa 50c University editor, Univ. of Nebraska, Lincoln '41

Pacific countries

Economic survey of the Pacific area; pt. 1, Population and land utilization. K. J. Pelzer. 215p $2 Inst. of Pacific relations, New York '41

Russia

See also

Ethnology—Russia

United States

Marriage and birth rates; war and post-war effects; abstract. P. M. Hauser. Science 96:sup8 Ag 21 '42

Nation of nations. il Fortune 26:72-3 S '42

See also

Census—United States

United States—Foreign population

Utah

Water and community growth in Utah. R. R. Woolley. il maps Civil Eng 12:500-2 S '42

POPULIN

Action of almond emulsin on populin and on phenyl 2,4,6-trimethyl-β-D-glucoside. W. W. Pigman and N. K. Richtmyer. bibliog Am Chem Soc J 64:374-5 F '42

PORCELAIN

Household porcelain. O. K. Burger. Consumers' Research Bul 9:7-9 Ja '42

Use of the photronic cell and spectrophotometer for measuring translucency of whiteware. F. C. Arrance. il diags Am Cer Soc J 25:116-22 F 15 '42

Use of washed North Carolina kaolin as an ingredient of porcelain bodies. W. H. Earhart. Ohio State U Eng Exp Sta Circ 42: 1-40 '41

See also

Enamel and enameling

Glass—Joining to porcelain

Pottery

Manufacture

Flexibility is watchword when making complex and difficult products; the Selas company makes variety of porous porcelain filters and ceramic gas burners. il Cer Ind 39:52, 54+ S '42

Porcelain welding ferrules made by regular steatite production methods. il Cer Ind 39:42-3 Jl '42

PORCELAIN—*Continued*

Testing

Properties of ware versus thermal history; tests on semivitreous china bodies and ware. J. H. Koenig. il Am Cer Soc J 25: 41-8 Ja 15 '42

Properties of ware versus thermal history; tests on vitreous china bodies and ware. J. H. Koenig. bibliog il Am Cer Soc J 25: 33-40 Ja 15 '42

PORCELAIN, Insulating

American porcelain insulator design; abstracts. R. L. Whitney. Elec R (Lond) 130:267 F 27 '42; Electrician 128:222-3 Mr 13 '42

Avoiding the curious in launching a new product; how Westinghouse introduced Prestite. J. M. McKibbin. il Ind Marketing 27: 25-6 Mr '42

Hybrid electrical porcelain developed. il Elec Eng 61:79 F '42

Insulator manufacture; use of various materials; abstracts. C. S. Garland. Elec R (Lond) 130:431-2 Ap 3 '42; Electrician 128: 306+ Ap 3 '42

New ceramic saves defense materials; Prestite. il Chem & Eng N 20:202-3 F 10 '42

Porcelain insulators; design in relation to manufacturing processes. E. Rosenthal. il diags Elec R (Lond) 130:755-8 Je 12 '42

Porcelain meter base replaces metal. il Elec W 117:1700 My 16 '42

Steel, copper, and rubber wasted where porcelain serves better. Am Cer Soc J (Bul) 21:29-30 F 15 '42

Manufacture

Albany slip glazes can meet needs of insulator industry. Cer Ind 39:50 Jl '42

Converting a whitewares plant to the production of steatite. A. Gunzenhauser. il Cer Ind 38:53-4 My '42

Insulator design; securing economy in manufacture. E. Rosenthal. il diags Elec R (Lond) 131:9-10 Jl 3 '42

Stokers do a good job in firing electrical porcelain ware. il diag Cer Ind 39:52+ Ag '42

Testing

Characteristics and performance in service of high-voltage porcelain insulators. J. S. Forrest. il diags Inst E E J 89 pt 2:60-80, pl 1-2 F '42; Abstracts. Elec R (Lond) 129:573-4 N 21 '41; Electrician 127:306-7 N 28 '41; Discussion. Inst E E J 89 pt 2:80-92, 249-54 F, Je '42; Elec R (Lond) 129:604-5 N 28 '41; Electrician 127:321 D 5 '41

Impulse characteristics of porcelain insulators. G. W. Bowdler and W. G. Standring. bibliog il diag Inst E E J 88 pt 2:443-52 O '41

PORK

More pork and lard in prospect. Barron's 22:6 Jl 6 '42

Safe pork insured by storage at low temperatures. Sci Am 166:296-7 Je '42

Tests reveal faulty retorting practices; pork luncheon meat. O. F. Ecklund, H. L. Roberts and H. A. Benjamin. il Food Ind 14:62-4 Ap '42

PORK, Dried

Develops dehydrating method for small meat plants; Griffith laboratories. E. S. Stateler. il Food Ind 14:52-3 N '42

Push dried pork. Business Week p58-60 S 5 '42

Swift puts meat dehydration on a production basis; beef dehydration; comparison with pork drying. E. S. Stateler. il diags Food Ind 14:48-9 O '42

PORK products

Agriculture department pork-product program. For Comm W 7:23 My 2 '42

Statistics

Canadian hog marketings, New Zealand pork production, 1938-1941. For Comm W 6:21-2 F 28 '42

POROSITY

Calculation of the surface area of microporous solids from measurements of heat conductivity. S. S. Kistler. bibliog diags J Phys Chem 46:19-31 Ja '42

Causes of porosity in tin-bronze castings. T. F. Pearson and W. A. Baker. Engineering 153:10, 95-6, 125-6 Ja 2, 30, F 13 '42

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

Porosity in aluminum castings. W. Wilson, jr. il Foundry 70:64-5, 151-2 F '42; Abstract. Metals & Alloys 15:841+ My '42

Porosity, specific permeability and the geometry of spacing. P. F. Jones. diags Oil & Gas J 41:45-7 My 28 '42

Structure of brush-plated silver. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 21):231-5 O '42

POROUS materials

Acoustic impedance of porous materials. L. L. Beranek. diags Acoustical Soc Am J 13: 248-60 Ja '42

Calculation of the surface area of microporous solids from measurements of heat conductivity. S. S. Kistler. bibliog diags J Phys Chem 46:19-31 Ja '42

Measurement of flow resistance of porous acoustic materials. R. L. Brown and R. H. Bolt. bibliog diag Acoustical Soc Am J 13:337-44 Ap '42

Neutron logs find porous zones in western Kansas limestones. W. L. Russell and R. B. Downing. Oil & Gas J 41:66 Ag 6 '42

PORPHYRINS

Some exchange experiments with radioactive tracers. S. Ruben and others. bibliog Am Chem Soc J 64:2297-8 O '42

Synthesis of unsymmetrical N-methyl dipyrrylmethanes. W. M. Quattlebaum, jr. and A. H. Corwin. Am Chem Soc J 64:922-5 Ap '42

PORT accounting

Costing in relation to port operation. G. Wilson. Engineering 152:415 N 21 '41

PORT authorities, American association of. See American association of port authorities

PORT ELIZABETH, Cape Colony

Port Elizabeth, South Africa. Engineer 173:82 Ja 23 '42

PORT JERVIS, New York

Community plan builds morale and new market in small town. il Sales Management 51: 30, 32 N 1 '42

War problems of the small city. A. M. Tucker. Credit & Fin Management 44:16-18 Jl '42

PORT labor. See Longshoremen

PORT of London authority

Port of London authority; how it was organized. Gas J (Lond) 239:317 Ag 26 '42

PORT of New York authority

Upholds decision in Virginia port rate case. Comm & Fin Chr 156:27 Jl 2 '42

PORTABLE bridges. See Bridges, Portable

PORTABLE electric tools. See Electric tools, Portable

PORTABLE houses. See Houses, Portable

PORTABLE pipe lines. See Pipe lines, Portable

PORTABLE power plants. See Power plants, Portable

PORTER, Edwin Stanton

Edwin S. Porter; his contribution to moving pictures. J. E. Abbott and R. Griffith. Soc Motion Picture Eng J 38:546-8 Je '42

PORTER, Paul R.

Portrait. Business Week p7 My 9 '42

PORTERS

Employment conditions of redcaps. Monthly Labor R 54:1398-9 Je '42

Facts on redcaps. il Business Week p74+ My 2 '42

PORTERS—*Continued*

Tips as wages under Fair labor standards act; decision of United States Supreme court. Monthly Labor R 54:996 Ap '42

Tips count as wages. Business Week p77 Mr 7 '42

Tips included in minimum wages. Ry Age 112:503 Mr 7 '42

PORTLAND, Maine

Harbor

Laying submarine pipe in Portland harbor in winter. H. U. Fuller. N E Water Works Assn J 56:65-9 Mr '42

Rapid transit

Portland buses handle war traffic in stride. H. S. Knowlton. il Transit J 86:275-8 Ag '42

Water supply

Drought and its effect on the supply of the Portland water district; abstract. H. U. Fuller. Water Works & Sewerage 89:102-3 Mr '42

Guarding water works property. H. U. Fuller. Am Water Works Assn J 34:1168-9 Ag '42

Water supply defense program; Portland water district. J. A. Jackson. Water Works & Sewerage 89:107-10 Mr '42

PORTLAND, Oregon

Fuelless Portland. Business Week p34-5 Je 6 '42

Municipal war code of emergency ordinances. Eng N 128:979 Je 18 '42

PORTLAND cement. See Cement

PORTLAND electric power company

Reorganization plan filed with SEC. Comm & Fin Chr 156:1508-9 O 26 '42

PORTRAITS

Edward B. Greene collection of engraved portraits and portrait drawings at Yale university. A. Wolf, comp. 141p $5 Yale univ. press '42

See also

Photography—Portraits

PORTS

ODT keeps train sheet on all vital railroad routes; system of port control. Ry Age 112:1243 Je 27 '42

What's needed in the Gulf. W. Chatfield-Taylor. For Comm W 6:3+ Ap 4 '42

See also

Docks
Free harbors
Piers
Port accounting
Shipping
Terminals

also names of ports, e.g.

Baltimore
San Francisco

Charges

Port and terminal charges at United States Great lakes ports. 145p U. S. Engineer dept, Board of engineers for rivers and harbors, Washington; pa 25c Supt. of doc. '42

Port and terminal charges at United States seaports. 637p U. S. Engineer dept, Board of engineers for rivers and harbors, Washington; pa $1 Supt. of doc. '42

Directories

Directory of port authorities and port terminal operators in North America. T. S. McChesney, comp. 72p Am. assn. of port authorities, T. S. McChesney, sec-treas, 2223 Short st, New Orleans '42

PORTSMOUTH, New Hampshire

What types of new construction are essential, today? case in point. maps Arch Rec 90:44-7 D '41

PORTSMOUTH, Virginia

Water supply

Strategy and tactics on a wartime waterworks project. E. J. Cleary. il Eng N 129:474-8 O 8 '42

PORTUGAL

Economic conditions

Portugal in 1941. Economist 142:sup12 Mr 14 '42

Portugal's economic problem. Economist 143:15 Jl 4 '42

PORTUGUESE language

Dictionaries

Diccionario militar; English-Portuguese, português-inglês. 183p, 190p $3.50 Editorial tecnica unida, Brooklyn, N.Y. '42

Glossaries

Glossary of certain child-welfare terms in Spanish, Portuguese, French and English. A. K. Smith. U S Children's Bur Pub 271:1-115; pa 15c Supt. of doc. '42

POSITRONS

Angular distribution of positron annihilation radiation. R. Beringer and C. G. Montgomery. bibliog diag Phys R 61:222-4 Mr 1 '42

See also

Electrons

POSSESSIVE case

Sizzly possessives. E. N. Teall. Inland Ptr 109:43-4 S '42

POST exchanges

Army post exchange becomes $1,000,000,000-a-year market. L. M. Hughes. il Sales Management 51:21-3 Jl 1 '42

Army post exchange: new outlet for a host of civilian products. il Sales Management 50:21-2 Ja 1 '42

New retail giant. Business Week p46+ Ag 15 '42

Post exchanges: what they sell; how they buy. P. James. il Adv & Sell 35:21+ Jl '42

What type and quality of goods do soldiers buy at post exchanges? L. B. Colby. il Sales Management 51:22-4 Ag 1 '42

POST mills. See Windmills

POST offices

Projected construction; types of housing suitable for use in semitropical areas. il diags plan Arch Forum 77:43 Jl '42

Electric equipment

Same—yet different; wiring, Rincon Annex postoffice, San Francisco. il Elec West 87:46-8 D '41

POSTAGE stamps

Philatelic history of the United States. pa $1 E. R. Long, ed. Elmer R. Long, 203 Market st, Harrisburg, Pa. '41

Scott's standard postage stamp catalogue; v. 1, The Americas and the British Commonwealth of nations. H. M. Clark and T. M. Clark, eds. 1943 99th ed 752p $2 Scott publications, 1 W. 47th st, New York '42

Stamps; philately in Portugal; stamps issued by German Reich, occupied Poland, Italy and colonies, etc. Economist 142:862 Je 20 '42

They dreamed and dared, America's history in stamps and stories. L. E. Barclay. 612p $2.50 Steck co, Austin, Tex. '41

Chile

Who's who on the postage stamps of Chile. R. E. Alfaro. 14p pa 10c Pan American union, Washington, D.C. '41

Newfoundland

Postage stamps and postal history of Newfoundland, with a reference list for collectors. W. S. Boggs. 186p bibliog (p179-80) $1.50 Chambers pub. co, Kalamazoo, Mich. '42

POSTAL cards

See also

Advertising, Mail—Postal cards

POSTAL life insurance company, New York

Guaranty extended. Comm & Fin Chr 155:193 Ja 13 '42

POSTAL rates

Postal rate hike? Business Week p34-5 Jl 4 '42

POSTAL savings banks

Postal savings system, yearly June and Dec. 1934-1940, monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:52 Ja '42 [cont monthly]

POSTAL service

Restrict foreign mail to aid war effort. Comm & Fin Chr 155:1714 Ap 30 '42

See also
Air mail service
Postage stamps

Money orders

Money order collection restrictions. Banking 34:74 Mr '42

New clearing charges help the sale of bank money orders. il Bankers Mo 59:174-5 Ap '42

United States

Bulging mails; Washington sets the pace for curtailment of deliveries. Business Week p34+ O 24 '42

V—mail. Fortune 26:72+ N '42

POSTAL telegraph, inc.

Brighter prospects for telegraph merger. L. Edwards. Barron's 22:8 Ap 20 '42

War hastens efforts to merge telegraph companies. A. Barnes. Pub Util 29:681-5 My 21 '42

POSTERS

Ad managers assume leadership in worker morale programs; posters, house organs, booklets. il Ind Marketing 27:28-32 My '42

Awards for posters distinguished by copy and design. il Adv & Sell 35:36-9 F '42

Best use of posters. Business Week p32 O 31 '42

British plant posters stir workers; interview with E. Haynes. il Ptr Ink 201:42, 46 N 6 '42

Building morale in British factories; effective posters carry fight talk to production lines. J. Monsarrat. il Aviation 41:54-5+ Ja '42

Coca-Cola wins poster honors. il Ptr Ink 197:55+ N 21 '41

Educating the people to war. il Mod Packaging 15:67-70+ Ag '42

Enemy ears may be near; Seagram-Distillers corp. poster campaign. il Mod Packaging 15:78 F '42

Morale-building posters. il Aero Digest 40:86, 89 Ap '42

100 best posters, 1940. 58p Outdoor advertising, New York '40

Plant posters for defense. il Ptr Ink Mo 43: 10-11 D '41

Posterizing photographs; variation of the Persson process. R. W. Wade. il Am Phot 36:8-11 N '42

Posters for employee morale building. Factory Management 100:61-4 My '42

Production promotion is today's task for advertising men. il Ind Marketing 27:32-4 Je '42

Retail posters inform consumers on conservation; Pacific Mills series for dealers. il Ptr Ink 199:16 My 22 '42

Scoreboards and posters spurring war production. il Steel 110:56 Je 1 '42

War workers vote on factory posters; pick these as best; P. I. survey. il Ptr Ink 201:18-20 O 23 '42

See also
Advertising, Outdoor
War posters

POSTS, Concrete

Some experience with prestressed steel in small concrete units. R. E. Dill. diag Am Concrete Inst J 13:165-8 N '41

POSTURE

Posture and fatigue. J. R. Garner. Nat Safety N 45:38, 40 F '42; Same. Concrete (mill sec) 50:137-8 Mr '42

Posture and nursing. J. L. Stevenson. 63p bibliog(p53) Joint orthopedic nursing advisory service, 1790 Broadway, New York '42

POTASH

American potash reserves; abstract. G. R. Mansfield. Can Chem & Process Ind 26: 588 O '42

Basal beds of Salado formation in Fletcher potash core test, near Carlsbad, New Mexico. W. B. Lang. Am Assn Pet Geologists Bul 26:63-79, pl 1-11 Ja '42

Detergent from the wood ash of avicennia tomentosa. C. D. Mell. Textile Col 63:617-18 N '41

Potash and borax, 1941. R. W. Mumford. il Min Cong J 28:54-6 F '42

Potash company of America; producer of sylvite at Carlsbad. R. A. Pierce and L. D. Anderson. il Eng & Min J 142:37-41 D '41; 143:38-41 Ja '42

Potash salts, controlling factor in the normal growth of sugar beets; abstract. F. B. Lopez-Rubio. Chem & Met Eng 49:225-6 S '42

Symposium on potash at the Buffalo meeting of the American chemical society. Science 96:106-7 Jl 31 '42

System $2CaO.SiO_2$-$K_2O.CaO.SiO_3$, and other phase-equilibrium studies involving potash. W. C. Taylor. bibliog pl J Research Nat Bur Stand 27:311-23 S '41; Excerpts. Concrete (mill sec) 50:109-10 Ja '42

See also
Alunite
Potassium hydroxide
Potassium oxides

Analysis

Determination of K_2O in commercial fertilizers using 95 and 80 percent alcohol and acid-alcohol. O. W. Ford and C. W. Hughes. bibliog Ind & Eng Chem Anal ed 14:217-18 Mr 15 '42

POTASH industry and trade

Statistics

Fertilizers and materials, 1941. Chem & Met Eng 49:88 F '42

POTASSIUM

Electrochemical properties of mineral membranes; measurement of potassium-ion activities in colloidal clays. C. E. Marshall and W. E. Bergman. bibliog J Phys Chem 46:52-61 Ja '42

Investigation of the scattering of positive alkali ions at an angle of 90° in mercury vapor. Sister John Baptist Macelwane. diag Phys R 60:762-5 D 1 '41

Molecular weight of potassium bromide and the atomic weights of silver, bromine and potassium. R. K. McAlpine and E. J. Bird. bibliog diag Am Chem Soc J 63:2960-5 N '41

Analysis

Adaptation of an indirect method for potassium to the photoelectric colorimeter. C. P. Sideris. bibliog Ind & Eng Chem Anal ed 14:821-2 O 15 '42

Direct determination of potassium in silicate rock. H. W. Willard, L. M. Liggett and H. Diehl. diag Ind & Eng Chem Anal ed 14: 234-5 Mr 15 '42

Photometric determination of potassium. I. W. Wander. bibliog Ind & Eng Chem Anal ed 14:471-2 Je 15 '42

Polarographic determination of potassium, sodium, and lithium. I. Zlotowski and I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:473-7 Je 15 '42

Rapid determination of potassium in portland cement. W. L. Honaker. bibliog Concrete (mill sec) 50:153-4 Ap '42

Rapid method for determining potassium in plant material; perchloric acid digestion and chloroplatinic acid precipitation. J. L. St John and M. C. Midgley. bibliog Ind & Eng Chem Anal ed 14:301-2 Ap 15 '42

Biological effect

Biochemical influence of phosphorus and potassium. S. N. Farmer. bibliog Chem & Ind 61:3-4 Ja 3 '42

POTASSIUM—*Continued*

Isotopes

Nuclear spin and magnetic moment of K^{40}. J. R. Zacharias. bibliog diag Phys R 61:270-6 Mr 1 '42

Theoretical half-lives of forbidden β-transitions; RaE, P^{32}, K^{40}, and Rb^{87}. E. Greuling. bibliog Phys R 61:568-77 My 1 '42

POTASSIUM amide

Direct diazotization of nitrobenzene. F. W. Bergstrom and J. S. Buehler. bibliog Am Chem Soc J 64:19-21 Ja '42

POTASSIUM arsenates

Determination of parameters in potassium dihydrogen arsenate and silver arsenate. L. Helmholz and R. Levine. Am Chem Soc J 64:354-8 F '42

POTASSIUM borate

X-ray diffraction and physical properties of potassium borate glasses. R. L. Green. bibliog Am Cer Soc J 25:83-9 F 1 '42

POTASSIUM bromate

Determination of antimony in lead-antimony alloys. L. A. Wooten and C. L. Luke. bibliog Ind & Eng Chem Anal ed 13:771-3 N 15 '41

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

POTASSIUM bromide

Halogen addition to ethylene derivatives; bromine additions in the presence of bromide ions. K Nozaki and R. A. Ogg, jr. bibliog Am Chem Soc J 64:697-704 Mr '42

Molecular weight of potassium bromide and the atomic weights of silver, bromine and potassium. R. K. McAlpine and E. J. Bird. bibliog diag Am Chem Soc J 63:2960-5 N '41

Refractive index values for potassium bromide. J. W. Forrest. Opt Soc Am J 32: 382 Jl '42

Temperature diffuse scattering of X-rays by potassium chloride and potassium bromide crystals. J. H. Hall. bibliog Phys R 61: 158-67 F 1 '42

Analysis

Estimation of bromides in the presence of other halides. P. L. Kapur, M. R. Verma and B. D. Khosla. bibliog Ind & Eng Chem Anal ed 14:157-8 F 15 '42

Microestimation of bromide as pentabromorosaniline. W. J. Turner. bibliog Ind & Eng Chem Anal ed 14:599-600 Jl 15 '42

Titration of bromide and iodide ions with mercuric nitrate solution using diphenyl carbazide indicator. H. R. McCleary. bibliog Ind & Eng Chem Anal ed 14:31-2 Ja 15 '42

POTASSIUM carbonates

See also
Potash

POTASSIUM chlorate

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

Molal volumes of solutes; potassium chlorate and hydrochloric acid. O. Redlich and J. Bigeleisen. bibliog Am Chem Soc J 64:758-60 Ap '42

POTASSIUM chloride

Anomalous electroreduction of water at the dropping mercury electrode in relatively concentrated salt solutions. E. F. Orlemann and I. M. Kolthoff. bibliog diag Am Chem Soc J 64:833-8 Ap '42

Conductance and ionic mobilities for aqueous solutions of potassium and sodium chloride at temperatures from 15° to 45°C. H. E. Gunning and A. R. Gordon. bibliog diags J Chem Phys 10:126-31 F '42

Conductivity studies; the limiting equivalent conductances of potassium chloride in water at temperatures between 15 and 40°. N. C. C. Li and H. Fang. Am Chem Soc J 64: 1544-7 Jl '42

Conductivity studies; the limiting ionic mobilities of several univalent ions at temperatures between 15 and 45°. N. C. C. Li and W. Brüll. Am Chem Soc J 64:1635-7 Jl '42

Darkening of materials by light. F. Seitz. diag J Ap Phys 13:639-43 O '42

Dead sea and its surroundings. E. Bergmann. Engineer 174:150-1 Ag 21 '42

Distribution of lattice vibrations of the KCl crystal. M. Iona, jr. bibliog Phys R 60: 822-6 D 1 '41

Potash salts from seawater; abstract. L. Blas. Chem & Met Eng 49:161-2 Ap '42

Relative surface tension of potassium chloride solutions by a differential bubble pressure method. F. A. Long and G. C. Nutting. bibliog diag Am Chem Soc J 64:2476-82 O '42

Separation of lithium from potassium and sodium by treatment of the chlorides with higher aliphatic alcohols. E. R. Caley and H. D. Axilrod. Ind & Eng Chem Anal ed 14: 242-4 Mr 15 '42

Temperature coefficient of the conductance of potassium chloride solutions. A. R. Gordon. Am Chem Soc J 64:2517 O '42

Temperature diffuse scattering of X-rays by potassium chloride and potassium bromide crystals. J. H. Hall. bibliog Phys R 61: 158-67 F 1 '42

Thermodynamics of aqueous solutions of potassium chloride at temperatures from 15-45° from e. m. f. measurements on cells with transference. W. J. Hornibrook, G. J. Janz and A. R. Gordon. bibliog diag Am Chem Soc J 64:513-16 Mr '42

See also
Sylvite

POTASSIUM cholestanyl sulfate

Preparation of unsaturated sterids from steryl sulfate. A. E. Sobel and M. J. Rosen. Am Chem Soc J 63:3536-7 D '41

POTASSIUM cholesteryl sulfate

Preparation of unsaturated sterids from steryl sulfate. A. E. Sobel and M. J. Rosen. Am Chem Soc J 63:3536-7 D '41

POTASSIUM compounds

Effect of potassium salts upon aluminum oxychloride hydrosol. M. W. Kelly and K. S. Rostler. bibliog J Phys Chem 46:317-25 F '42

Extraction of potassium salts from sea water; abstract. L. Blas. Chem Ind 50:389 Mr '42

Potassium alkaneselenonates and other alkyl derivatives of selenium. M. L. Bird and F. Challenger. Chem Soc J p570-4 S '42

Tri-*o*-tolylmethane. P. D. Bartlett and J. E. Jones. bibliog Am Chem Soc J 64:1837-42 Ag '42

See also
Potash

POTASSIUM cyanide

Photosynthesis in flashing light. S. Weller and J. Franck. bibliog J Phys Chem 45: 1359-73 D '41

POTASSIUM dichromate

Oxidation of wool keratin by potassium dichromate. R. O. Donohue and R. Edgar. Am Dyestuff Rep 31:101-4, 123 bibliog(p123) Mr 2 '42

Standardisation of sodium thiosulphate with potassium dichromate. B. D. Sully. Chem Soc J p366-8 My '42

POTASSIUM dihydrogen arsenate. See Potassium arsenates

POTASSIUM ferricyanide

Determination of hydrazine; a rapid ferricyanide-ceriometric method. C. J. Dernbach and J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:58-60 Ja 15 '42

POTASSIUM fluorides

Double minimum problem applied to potassium hydrogen fluoride. G. Glockler and G. E. Evans. bibliog J Chem Phys 10:607-9 O '42

Fluorine and tooth decay; abstract. V. D. Cheyne. Science 95:sup14 My 22 '42

POTASSIUM foil

Preparation of thin potassium foils. J. B. Platt and D. H. Tomboulian. R Sci Instr 12:612-13 D '41

POTASSIUM halides

See also

Potassium bromide
Potassium chloride
Potassium fluorides
Potassium iodide

POTASSIUM hydride

Potential energy curve of the excited state of KH. G. M. Almy and A. C. Beiler. bibliog Phys R 61:476-81 Ap 1 '42

POTASSIUM hydroxide

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

Tin plating from the potassium stannate bath. M. M. Sternfels and F. A. Lowenheim. bibliog il Electrochem Soc Trans 82 (preprint 24):265-83 O '42

See also

Potash

POTASSIUM in the body

Release of potassium by the brain of the dog during electrical stimulation. V. H. Cicardo and A. Torino. bibliog Science 95:625 Je 19 '42

POTASSIUM iodate

Conductance of potassium iodate at 25° and the mobility of the iodate ion. K. A. Krieger and M. Kilpatrick. bibliog Am Chem Soc J 64:7-9 Ja '42

Potentiometric determination of vitamin C; combined use of 2,6-dichlorophenolindophenol and iodate. J. B. Ramsey and E. L. Colichman. bibliog Ind & Eng Chem Anal ed 14:319-21 Ap 15 '42

Solubility of potassium iodate and zinc iodate in dioxane-water mixtures; effect of sorting of solvent molecules. J. E. Ricci and G. J. Nesse. bibliog Am Chem Soc J 64:2305-11 O '42

POTASSIUM iodide

Acetylenic analog of neopentyl bromide; evidence that the hindrance to displacement reactions in neopentyl halides is steric in nature. P. D. Bartlett and L. J. Rosen. bibliog il Am Chem Soc J 64:543-6 Mr '42

Determination of the transference numbers of potassium iodide from the electromotive force of iodide-iodine gravity cells. S. W. Grinnell and F. O. Koenig. bibliog diags Am Chem Soc J 64:682-6 Mr '42

Persulphate-iodide reaction; the critical increment, and the catalysed reaction in the presence of neutral salts. W. J. Howells. Chem Soc J p641-5 O '41

Photoöxidation of iodide ion sensitized by eosin; the effect of the oxygen concentration and of the light intensity. R. Livingston. bibliog diag J Phys Chem 46:233-8 F '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

Analysis

Determination of small amounts of iodide in photographic developers. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. Ind & Eng Chem Anal ed 14:314-16 Ap 15 '42

Iodide analysis in an MQ developer. R. M. Evans, W. T. Hanson, jr. and P. K. Glasoe. bibliog Soc Motion Picture Eng J 38:180-7 F '42

Titration of bromide and iodide ions with mercuric nitrate solution using diphenyl carbazide indicator. H. R. McCleary. bibliog Ind & Eng Chem Anal ed 14:31-2 Ja 15 '42

POTASSIUM nickel cyanide

Study of the products obtained by the reducing action of metals upon salts in liquid ammonia solutions; the reduction of complex nickel cyanides: mono-valent nickel. J. W. Eastes and W. M. Burgess. diag Am Chem Soc J 64:1187-9 My '42

POTASSIUM oxalatostannate

Preparation and properties of potassium oxalatostannate. H. H. Willard and T. Y. Toribara. bibliog Am Chem Soc J 64:1759-61 Ag '42

Study of complex dioxalatothiometastannates. H. H. Willard and T. Y. Toribara. diag Am Chem Soc J 64:1762-5 Ag '42

POTASSIUM oxides

Effect of alkali promoter concentration on the decomposition of ammonia over doubly promoted iron catalysts. K. S. Love and S. Brunauer. bibliog Am Chem Soc J 64:745-51 Ap '42

Removing alkalis by heating with admixtures. H. Woods. Rock Prod 45:66-8 F '42

Analysis

Determining sodium and potassium oxides in portland cement. W. C. Hanna, L. N. Bryant and T. A. Hicks. Concrete (mill sec) 50:159-60 Ap '42

Proposed revision of tentative methods of chemical analysis of cement. Concrete (mill sec) 50:203-4 Jl '42

POTASSIUM oxyfluocolumbate

Structures of complex fluorides; potassium oxyhexafluocolumbate, K_3CbOF_6. M. B. Williams and J. L. Hoard. bibliog Am Chem Soc J 64:1139-41 My '42

POTASSIUM permanganate

Analysis of tin-base bearing metal; permanganate and iodometric methods for antimony and copper. J. R. Andrews and A. J. Bender. bibliog Ind & Eng Chem Anal ed 14:713-14 S 15 '42

Cotton pulps; modification by oxidizing and hydrolyzing agents. D. M. Musser and H. C. Engel. bibliog Paper Tr J 114:29-31 Ap 9 '42

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

Oxidation of asphalt in thin films. A. R. Ebberts. bibliog il Ind & Eng Chem 34:1048-51 S '42

Production of potassium permanganate; anodic dissolution of ferro-manganese in a diaphragm-free cell. A. Lowy. Electrochem Soc Trans 80 (preprint 3):19-26 O '41; Abstract. Chem Age (Lond) 45:315 D 20 '41

Sterols; sapogenins; the structure of the dibasic acid obtained by the permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:147-9 Ja '42

Sterols; sapogenins; the structure of the side chain of sarsasapogenin; the identification of the acid obtained by the haloform reaction on the dibasic acid from the potassium permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:180-1 Ja '42

POTASSIUM persulfate

Persulphate-iodide reaction; the critical increment, and the catalysed reaction in the presence of neutral salts. W. J. Howells. Chem Soc J p641-5 O '41

Photolysis of persulfate. L. J. Heidt. bibliog J Chem Phys 10:297-302 My '42

POTASSIUM phosphates

Development of processes for metaphosphate productions. R. L. Copson, G. R. Pole and W. H. Baskervill. bibliog il diag Ind & Eng Chem 34:26-32 Ja '42

Analysis

Amperometric titrations; amperometric determination of phosphate with uranyl acetate. I. M. Kolthoff and G. Cohn. bibliog Ind & Eng Chem Anal ed 14:412-18 My 15 '42

POTASSIUM pyrosulfate
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:64 Jl 20 '42

POTASSIUM stannate
Tin plating from the potassium stannate bath. M. M. Sternfels and F. A. Lowenheim. bibliog il Electrochem Soc Trans 82 (preprint 24):265-83 O '42

POTASSIUM sulfates
Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

See also
Potassium persulfate
Potassium pyrosulfate

POTASSIUM thiocyanate
State of aggregation of gelatin in non-gelating systems. E. O. Kraemer. J Phys Chem 46:177-82 Ja '42
Surface tension, liquid density, and vapor density of sulfur dioxide solutions of potassium thiocyanate at 10°, 15°, 20°, and 25°C. W. G. Eversole, G. H. Wagner and G. C. Bailey. bibliog diag J Phys Chem 45:1388-97 D '41

POTASSIUM xanthate
Resists under printed azoic colors. Textile Col 64:449-50 S '42

POTATO chips
Conveyors aid packing, help retain quality; belts and chutes of special design for handling potato chips. M. E. Bridston. il Food Ind 14:45 S '42

Manufacture

Potato chip manufacture; pictures of Ross potato chip company, Richland, Pa. Food Ind 14:66-7 Ja '42

POTATO starch
Constitution of the starch synthesised *in vitro* by the agency of potato phosphorylase. W. N. Haworth, R. L. Heath and S. Peat. Chem Soc J p55-8 Ja '42
Dextrines and semi-dextrines from minor starches; standard processes with potato and maize starch. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:189-91 Ap 11 '42
Dextrines and semi-dextrines from minor starches; standard processes with rice and sweet-potato starch. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:201-2 Ap 18 '42
Idaho starch industry utility-initiated. il Elec W 118:330 Jl 25 '42
Industrial starch from cull potatoes; abstracts. R. E. Gale. Science 95:sup12 Ap 3 '42; Chem Ind 50:535 Ap '42
Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64:2144-6 S '42
Significance of the "V" X-ray diffraction patterns of starches. R. S. Bear. bibliog il Am Chem Soc J 64:1388-92 Je '42
Starch studies; gelatinization of starches in water and in aqueous pyridine. J. W. Mullen, 2d and E. Pacsu. bibliog il Ind & Eng Chem 34:807-12 Jl '42
Study of the products obtained from starch by the action of the amylase of bacillus macerans. W. S. McClenahan, E. B. Tilden and C. S. Hudson. bibliog Am Chem Soc J 64:2139-44 S '42

Analysis

Photoelectrometric particle-concentration analysis; estimation of anthraquinone-beta-sodium sulfonate in presence of alpha-isomer and of anthraquinone-1,8-disulfonic acid in presence of 1,5-isomer. W. Seaman, A. R. Norton and C. Maresh. il Ind & Eng Chem Anal ed 14:350-7 Ap 15 '42

POTATOES
All-America package competition; award to Tropical agriculture co-operative assn.; potatoes packed in paper bags. il Mod Packaging 15:216-17 Ap '42
Big potato year. Business Week p60+ S 12 '42
Blackening of potato tubers on boiling; abstract. U. M. Robison. Food Ind 13:101 D '41
Polyphenolase activity as a primary cause in darkening of boiled potatoes. W. E. Tottingham and C. O. Clagett. Science 94:497 N 21 '41
Potato production in Canary Islands; potatoes as fodder in Denmark. For Comm W 8:24-5 Jl 4 '42
Potatoes; British increase in home production. Economist 143:248 Ag 22 '42

See also
Sweet potatoes

POTATOES, Dried
Army standards for dehydrated foods. Food Ind 14:54+ N '42
Characteristics and treatment of potato dehydration wastes; abstract. H. F. Gray and H. W. Ludwig. Water Works & Sewerage 89:442 O '42

POTENTIAL, Electric
Adsorption potentials at gas-solid interfaces. A. A. Frost. Electrochem Soc Trans 82 (preprint 10):109-13 O '42
Continuous-reading electronic voltmeter for use with glass and other high-resistance electrode systems. C. J. Penther, F. B. Rolfson and L. Lykken. bibliog il diags Ind & Eng Chem Anal ed 13:831-4 N 15 '41
Coupler cuts cost of potential indication. R. A. Koppana. il diag Elec W 117:1680+ My 16 '42
Determination of the transference numbers of potassium iodide from the electromotive force of iodide-iodine gravity cells. S. W. Grinnell and F. O. Koenig. bibliog diags Am Chem Soc J 64:682-6 Mr '42
Effect of electrical forces on the stability of colloidal sols. W. G. Eversole and A. L. Hanson. bibliog J Chem Phys 10:460-3 Jl '42
Effect of electrostatic forces on electrokinetic potentials. W. G. Eversole and W. W. Boardman. J Chem Phys 9:798-801 N '41
Electrochemistry of baths of fused aluminum halides; aluminum as a reference electrode. R. G. Verdieck and L. F. Yntema. bibliog diag J Phys Chem 46:344-52 Mr '42
Electrochemistry of baths of fused aluminum halides; the deposition of potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42
Electrokinetic equations for gels and the absolute magnitude of electrokinetic potentials. J. J. Bikerman. bibliog J Phys Chem 46:724-30 Je '42
Elimination of liquid junction potentials; the conditions of extrapolation. B. B. Owen and S. R. Brinkley, jr. bibliog Am Chem Soc J 64:2071-5 S '42
Formal oxidation-reduction potentials of thallous-thallic salts in aqueous hydrochloric acid solutions; formation of chlorothallate complex ions. R. H. Hughes and C. S. Garner. bibliog diag Am Chem Soc J 64:1644-8 Jl '42
Ionization constants of propionic acid in methyl and ethyl alcohol-water mixtures from 0 through 40°. A. Patterson and W. A. Felsing. Am Chem Soc J 64:1480-2 Je '42
Molal electrode potential of the silver-silver chloride electrode in ethyl alcohol-water mixtures. A. Patterson and W. A. Felsing. bibliog Am Chem Soc J 64:1478-80 Je '42
Null methods applied to corrosion measurements. J. M. Pearson. diags Electrochem Soc Trans 81 (preprint 21):317-40 Ap '42
Potential in a solution near a charged wall. W. G. Eversole. bibliog J Chem Phys 10:78 Ja '42
Potential of the ytterbic-ytterbous ion electrode. H. A. Laitinen. bibliog Am Chem Soc J 64:1133-5 My '42
Relation of electromotive force to the concentration of deuterium oxide in saturated standard cells. L. H. Brickwedde and G. W. Vinal. bibliog J Research Nat Bur Stand 27:479-89 D '41

POTENTIAL, Electric—*Continued*

Stability properties of hydrophobic colloidal solutions. S. Levine and G. P. Dube. bibliog J Phys Chem 46:239-80 F '42

Standard potential of the silver-silver bromide electrode in anhydrous methanol at 25°. E. W. Kanning and A. W. Campbell. bibliog Am Chem Soc J 64:517-19 Mr '42

Studies on overvoltage; a study of hydrogen decomposition potentials under various conditions in acid solutions at platinized platinum electrodes. A. L. Ferguson and M. B. Towns. bibliog Electrochem Soc Trans 82 (preprint 26):301-17 O '42

Studies on overvoltage; decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. A. L. Ferguson and M. B. Towns. diags Electrochem Soc Trans 82 (preprint 25):285-99 O '42

Theory of the potential and the technical practice of electrodeposition; the two-dimensional rectangular enclosures. C. Kasper. diags Electrochem Soc Trans 82 (preprint 4):33-64 O '42

Thermodynamic study of the tin-bismuth system. H. Seltz and F. J. Dunkerley. bibliog diag Am Chem Soc J 64:1392-5 Je '42

Thermodynamics of aqueous solutions of potassium chloride at temperatures from 15-45° from e. m. f. measurements on cells with transference. W. J. Hornibrook, G. J. Janz and A. R. Gordon. bibliog diag Am Chem Soc J 64:513-16 Mr '42

Use of soil surface potential in locating pipeline corrosion. O. C. Mudd. diags Oil & Gas J 41:50, 52+ My 14 '42

See also

Overvoltage
Photoelectric effect
Piezoelectricity

POTENTIOMETERS

Continuous balance potentiometer pyrometer. R. D. Towne and D. M. Considine. il diags Electronics 15:92+ Ag '42

Electronic potentiometer. M. A. Honnell. il diags Inst Radio Eng Proc 30:433-6 O '42

Electronic unit eliminated cyclic mechanism; continuous balance potentiometer pyrometer. il diags Product Eng 13:254-6 My '42

POTOMAC electric power company

Bonds offered. Comm & Fin Chr 156:868-9 S 7 '42

Financing approved; to sell at competitive bidding issue of 3¼% bonds. Comm & Fin Chr 156:787 Ag 31 '42

Potomac Electric issue of $5,000,000 offered. Comm & Fin Chr 156:794 S 3 '42

POTOMAC river

Capital's sewage adds to pollution of Potomac. Eng N 129:331 S 3 '42

Pollution control in the Potomac; abstract. F. W. Kittrell. Am Water Works Assn J 34:1577 O '42

POTTERIES

Converting a whitewares plant to the production of steatite. A. Gunzenhauser. il Cer Ind 38:53-4 My '42

E. A. Hilton pottery. il Am Cer Soc Bul 21:83-4 Je 15 '42

Little glimpse here and there in the E. Liverpool potteries. L. T. Cox. Cer Ind 38: 31 F; 38 Je; 41 Jl '42

Pisgah forest pottery. il Am Cer Soc Bul 21:84-6 Je 15 '42

Rookwood pottery sold. Am Cer Soc Bul 20:423 N '41

Electric equipment

Firing pottery by electricity. A. B. Hollowood. il Electrician 127:317-18 D 5 '41

Infra-red dries pottery glaze. il Elec W 117: 120 Ja 10 '42

Magnetic percolators; cleaning clay for pottery. il diags Elec R (Lond) 130:203-4 F 13 '42

Equipment

Annual review section. il Cer Ind 38:85-106 Ap '42

How Scio makes pottery! il plans Cer Ind 38:40+ F '42

Low weight and high strength feature this ceramic body; Trenton potteries produce lightweight large size whitewares from Duraclay. il Cer Ind 39:62, 64, 66 N '42

Problems of pottery manufacturing. il diags Engineer 172:450-2 D 26 '41

Layout

How Scio makes pottery! il plans Cer Ind 38:40+ F '42

Safety measures

Dangerous dust hazards still exist in whiteware manufacturing plants. L. M. Merritt. Cer Ind 38:56 Mr '42

POTTERS association, United States. See United States potters association

POTTERY

American ceramic society meeting; abstracts of papers of interest to potters. il Cer Ind 38:48, 50-2+ My '42

Background of Dedham pottery. J. M. Robertson. Am Cer Soc Bul 20:411-13 N '41

Ceramics fighting on the home front; substitutes for metals. il Cer Ind 38:80-1 Ap '42

Design and production of dinnerware for nursery schools. P. G. Herold and S. Dods. il Am Cer Soc Bul 21:113-14 Je 15 '42

Glass and pottery playing a big part in war industries. il Mod Packaging 15:41 My '42

Miniature pottery and its potting. M. S. Fetzer. il Am Cer Soc J (Bul) 21:12-14 Ja 15 '42

New pots from the old clays of the West. G. Lukens. Am Cer Soc Bul 21:237-8 O 15 '42

Practical book of chinaware. H. D. Eberlein and R. W. Ramsdell. 325p bibliog(p303-7) $1.98 Blue ribbon books '42

Report of American ceramic society committee on research for 1941-1942. Am Cer Soc Bul 21:96-8 Je 15 '42

Structures of unfired pottery bodies revealed by a new technique; abstract. W. O. Williamson. Am Cer Soc J 25 (Cer A 21): 45 F 1 '42

See also

Ceramics	Porcelain
Clay	Potteries
Clay products	Sanitary ware
Enamel and enameling	Stoneware
Glazes	Tableware
Kilns	Tiles

also American ceramic society

Bibliography

Ceramic abstracts. Published in monthly numbers of American ceramic society Ceramic abstracts and Bulletin

Decoration

Ceramic chemistry; glazing and decoration. A. B. Hollowood. Chem Age (Lond) 45:297-9 D 13 '41

Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42

Kiln gases affect the decorating fire. J. P. Thorley. Cer Ind 39:44, 46 Jl '42

Liverpool transfer designs on Anglo-American pottery. R. H. McCauley. 150p bibliog(p141) $7.50 Southworth-Anthoensen press, 105 Middle st, Portland, Me. '42

Old color mystery may hold solution to color problem; color phenomenon noticed during tests of lubricant, later duplicated in ceramic firing tests. Cer Ind 39:21+ Jl '42

Photo-lithographic decalcomania now replaces hand-lithography and assures faithful reproduction of the artist's original design. il Cer Ind 38:32-3 F '42; Same cond. Sci Am 166:194-5 Ap '42

History

Isaac Watts Knowles. L. T. Cox. il Am Cer Soc Bul 21:151-7 Ag 15 '42

POTTERY—*Continued*

Manufacture

Ceramic batches; collection of recipes. Cer Ind 38:132, 135-6 Ja '42

Ceramic chemistry; glazing and decoration. A. B. Hollowood. Chem Age (Lond) 45:297-9 D 13 '41

Commercial firing survey of car-tunnel kilns; with fuel cost data and comparison with electric kilns. M. S. Nelson and H. Wilson. Am Cer Soc J 25:237-40 My 1 '42

How Scio makes pottery! il plans Cer Ind 38:40+ F '42

Influence of fluxes of spodumene and feldspar mixtures on properties of chinaware bodies; semi-vitreous bodies and vitreous hotel chinaware bodies. H. G. Schurecht, J. K. Shapiro and Z. Zabawsky. diags Am Cer Soc J 25:321-6 Jl 1 '42

Low-temperature vitreous bodies. C. J. Koenig. bibliog il Am Cer Soc J 25:230-6 My 1 '42

Making Goldscheider ware in America. il Cer Ind 39:43-4 Ag '42

Measurement of kiln atmospheres. J. R. Green. Cer Ind 38:30 Ja '42

Problems of pottery manufacturing. il diags Engineer 172:450-2 D 26 '41

Progress in gas utilization research during 1941; advanced application of gas heat to bisque firing. il Am Gas Assn Proc 1941: 424-5

Specifications and tests of ceramic raw materials; pottery materials. Cer Ind 38:120+ Ja '42

What are the practical limitations for one-fire pottery ware. W. A. Hull. il Cer Ind 38:41, 44 Mr '42

See also
Potteries

Marks

Porcelain and pottery marks. O. Allard and L. Allard, comps. 123p Urban Hartman, 65 W. 45th st, New York '42

POTTERY, Ancient

Research problems in an archeological ceramic laboratory. F. R. Matson. Am Cer Soc Bul 20:451-3 D '41

POTTERY, Chinese

Collector's first handbook on antique Chinese ceramics. E. S. Duncan. 54p pa $1 Else S. Duncan, 1008 Connecticut av, NW, Washington, D.C. '42

Early Chinese pottery. 45p pa 50c Mills college art gallery, Mills college, Oakland, Calif. '41

POTTERY, Italic

Italic tomb-groups in the University museum. E. H. Dohan. 113p, 55pls $7.50 Univ. of Pennsylvania press, Philadelphia '42

POTTERY, Persian

Metropolitan museum's excavations at Nishapur; abstract. W. Hauser and C. K. Wilkinson. Am Cer Soc Bul 21 (Cer A 21):183-4 S 15 '42

POTTERY industry

Problems of production in time of war discussed at United States potters association meeting. Cer Ind 38:28-30 Ja '42

Some of the problems confronting the potters of the United States; abstract. C. L. Sebring. Cer Ind 39:50+ Jl '42

What American women do not know about American ceramics. il Cer Ind 38:62-4+ Je '42

Advertising

Advertising challenges American dinnerware. G. Murray. il Ptr Ink 201:58, 60 O 9 '42

What American women do not know about American ceramics. il Cer Ind 38:62-4+ Je '42

Exhibitions

Best business in years at '42 Pittsburgh show. R. G. Gibney. il Cer Ind 38:34-6, 38+ F '42

History

Importance of pottery to the early settlers. E. L. Hettinger. il Cer Ind 39:48+ Jl '42

Investigation of the 19th century pot shops of Ohio's Hocking and Vinton counties. J. Cochran. il Am Cer Soc Bul 21:188-9 S 15 '42

Great Britain

Britons may have to use best dishes if tableware becomes scarce, costly. Cer Ind 39:52 Jl '42

Domestic pottery; limitation to essential articles. Economist 142:806 Je 6 '42

Ohio

Investigation of the 19th century pot shops of Ohio's Hocking and Vinton counties. J. Cochran. il Am Cer Soc Bul 21:188-9 S 15 '42

POTWIN, Charles C. 1908-1941

Sketch. por Acoustical Soc Am J 13:318-19 Ja '42

POULTRY

Hurried hens. Business Week p85-6 My 9 '42

See also
Eggs

Diseases and pests

Isolation of a filterable virus from chickens affected with blue comb disease. E. F. Waller. Science 95:560-1 My 29 '42

Prices

Maximum prices of poultry. Economist 141: 575 N 8 '41

POULTRY, Frozen

Effect of the rate of freezing and temperature of storage on the quality of frozen poultry. C. W. DuBois, D. K. Tressler and F. Fenton. il Refrig Eng 44:93-9 bibliog(p99); Discussion. M. E. Pennington. 99+ Ag '42

POULTRY brooders, Electric

Nichrome wire substitute in brooder coils. Elec West 89:63 Jl '42

POULTRY food

Oxidative destruction of vitamin D. J. C. Fritz and others. bibliog Ind & Eng Chem 34:979-82 Ag '42

POULTRY houses

Lighting

Effect of light on egg production. Elec W 118:980+ S 19 '42

POULTRY industry and trade

Improved processing helps to accomplish wartime food job. H. E. Drews. il Food Ind 14:51-3 O; 60-1 N '42

No hen-egg riddle; both come first as income producers. il Business Week p24+ Ja 17 '42

Poultry industry gears for job. Food Ind 14: 74 N '42

Poultryman is large user of electricity; Kimber poultry breeding farm. L. A. Walker. il Elec West 89:63 Jl '42

Why do you ruin good raw material? restaurant keeper's appeal to poultry packers. V. Megowen. il Food Ind 14:63-4 Je '42

POULTRY processing plants

Improved processing helps to accomplish wartime food job. H. E. Drews. il diag Food Ind 14:51-3 O; 60-1 N '42

POWDER, Smokeless. See Smokeless powder

POWDER magazines. See Explosives—Storage

POWDER metallurgy. See Metal powders

POWDERED iron. See Iron, Powdered

POWDERED metals. See Metal powders

POWDERED rubber. See Rubber, Powdered

POWDERED soap. See Soap, Powdered

POWDERS

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Apparatus for particle size analysis. il diags Engineering 154:141-2, 181-2, 221-3, 241-2 Ag 21, S 4, 18-25 '42

POWDERS—*Continued*

Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

Determining the surface area by air permeability method. S. L. Meyers. bibliog il diags Rock Prod 44:56-9 D '41

Energy of immersion of crystalline powders in water and organic liquids. G. E. Boyd and W. D. Harkins. bibliog diags Am Chem Soc J 64:1190-4 My '42

Improved hydrometer method for use in fineness determinations. A. Klein. diag Am Soc T M Proc 41:953-66 '41

Lamellar grading of powdered mica. F. Fraas and O. C. Ralston. pl U S Bur Mines Rep of Invest 3662:1-7 '42

Packing machine for powdered materials. il Engineering 152:507 D 26 '41

See also

Coal, Pulverized
Dust
Flour
Metal powders
Particles

POWEL, Charles Alfred, 1884-

Sketch. por Power Pl Eng 46:76 S '42; Elec Eng 61:574 N '42

POWER (mechanics)

Coal, petroleum, natural gas, and electricity in the United States, 1929-40. J. R. Bradley. U S Bur Mines Information Circ 7189:1-26 '41

Conserving power; abstract. L. S. Marks. Science 95:sup8 Ap 17 '42

Conserving power, air, and gas; Corning glass works, Corning, N.Y. F. S. Kriger. Factory Management 100:141-2+ Ag '42

Fundamental problems of energy. H. Chatley. Engineering 152:305, 335-6 O 17-24 '41

Future sources of power. C. C. Furnas. Science 94:425-8 N 7 '41; Same. Engineering 153:4 Ja 2 '42; Same. Sci Am 167:164-6 O '42

Gilmer tries its own power-saving medicine. P. Swain. il Power 86:659-62 S '42

How it works; an encyclopedia of mechanical knowledge. E. Hawks. 512p $1.98 Garden City pub. co., Garden City, N.Y. '41

Power and efficiency. G. M. Stearns. Oil & Gas J 41:57 Jl 16 '42

Salvaging industrial power; Gilmer company packages a program to cut electrical and other wastes. Ptr Ink 199:24-5 Je 19 '42

See also

Air conditioning equipment—Power
Airplanes—Auxiliary power
Coal mines and mining—Power
Compressed air
Dynamometers
Electric power
Electric railroads—Power
Electrochemical industries—Power
Electroplating—Power
Hydroelectric power
Machinery
Metallurgical plants—Power
Paper mills—Power
Petroleum engineering—Power
Power cost
Power factor
Power plants
Power transmission
Pumping stations—Power
Ship propulsion
Steam
Steel works—Power
Textile mills—Power
Wind power

POWER contracts

FPC to oversee all U.S. power contracts. Elec W 118:1454 O 31 '42

Making capacity with a contract. Elec W 117:2096 Je 13 '42

Oklahoma controversy over power for camp; Grand River dam head contests accepted bid of Oklahoma gas & electric co. Elec W News ed 117:1267 Ap 11 '42

Unusual provision in Bonneville deal; contract to supply 97,500 kw. to aluminum plant. il Elec W News ed 117:907 Mr 14 '42

Would cheapen cost of power to war plants; in letter to war agencies, President Roosevelt suggests contract between plant and supplier. Elec W 118:1277 O 17 '42

POWER cost

Chart simplifies power cost conversions. K. A. Kobe. Chem & Met Eng 49:132 F '42

Deriving gas engine operating costs and standardizing reports. R. W. Frazier. Pub Works 72:34 N '41

Diesel-electric power generation for frozen food plants. J. E. Hubel. il Refrig Eng 43:354-6 Je '42

Effect of power factor on cost. Oil & Gas J 40:75 Ap 23 '42

Energy cost under 1% of product value; ratio of purchased electric energy cost to value of manufactured product; census of manufactures, 1939. Elec W 117:819 Mr 7 '42

Pneumatic tools; power cost calculations; abstract. D. Y. Marshall. Mech Handling 29:70-1 Ap '42

Saving with Diesels; abstract. E. Heise. Rock Prod 45:51-2 Mr '42

Simple method of evaluation of pump bids and determination of power costs. C. I. Dodd. Water Works & Sewerage 88:548 D '41

Tank ventilating power costs cut by low velocity systems. W. B. Harris. diags Heat & Ven 39:42-5 Jl '42

Utilization of sludge gas in modern sized treatment plants; with cost data; abstract. G. Martin. plan Water Works & Sewerage 88:556-7 D '41

See also

Electric rates
Power factor

POWER factor

A.c. reactive supply. G. W. Stubbings. Electrician 128:115-16 F 13 '42

Another question about power factor. Power Pl Eng 46:98+ Ap; 104 Jl '42

Capacitors aid machine plant; Geometric tool company. il Elec W 117:1497-9 My 2 '42

Capacitors benefit Cambridge system. il Elec W 117:2260 Je 27 '42

Capacitors; effect on circuit performance when connected in series or in shunt. J. W. Butler. bibliog diags Gen Elec R 45:577-83 O '42

Capacitors help Attleboro lift power factor, cut peak. H. W. Thompson. il diag Elec W 117:1337-9 Ap 18 '42

Capacitors improve power factor on summer peak. W. L. Bryant. il Elec W 118:642+ Ag 22 '42

Capacitors save $6900 in first year of operation. Power Pl Eng 46:72 Ag '42

Chart for determining power factor from line current. Power Pl Eng 46:92 Je '42

Defining power-factor; unbalanced three-phase load. G. W. O. Howe. Elec R (Lond) 130:49-50 Ja 9 '42

Easy way to improve power factor. G. L. Hoddy. Elec W 116:2064 D 27 '41

Effect of power factor on cost. Oil & Gas J 40:75 Ap 23 '42

Harmonics and power factor. G. W. Stubbings. Elec R (Lond) 130:726-7 Je 5 '42

Importance of power factor in the textile industry. T. P. Allen. Textile Inst J 33: P 1-3 Ja '42

Maintenance and servicing of electrical instruments; power factor meters. J. Spencer. il diags Instruments 15:200, 202-5, 220-7 Je '42

Making power lines carry more load; M.B. manufacturing company, New Haven, Conn. D. Smith. il Factory Management 100:143 Ag '42

Origin and meaning of power factor. F. W. Richart. Coal Age 46:48-50 N; 54-5, 58 D '41; 47:47-8 Mr '42

Power factor and power factor economy; with cost data. R. E. Marbury. il Power Pl Eng 46:60-3 F '42

Power factor chart. P. M. Van Wingen. Power 86:437 Je '42

Power factor correction. Elec West 89:67 S '42

Power factor economics. G. W. Stubbings. Electrician 128:500-1 My 22 '42

Power factor improvement. M. I. Alimansky and R. E. Insley. il Paper Tr J 113:37-8 D 25 '41; Same. Steel 110:62+ Ja 26 '42; Same. Eng & Min J 143:65 My '42; Same. India Rubber W 106:141+ My '42

POWER factor—*Continued*

Power factor of three-phase load; discussion on methods of assessment. G. W. Stubbings. diags Electrician 128:51-2 Ja 23 '42

Power-factor tests. G. W. Stubbings. diags Elec R (Lond) 131:301-2 S 4 '42

Power factor variation of single phase. G. W. Stubbings. diags Electrician 128:442-3 My 8 '42

Reduction of system power and energy losses by power-factor improvement. F. M. Starr. Gen Elec R 45:165-71 Mr '42

Shunt and series capacitor use. W. E. Enns. diag Elec West 88:100-3 Je '42

Static capacitors save investment dollars. R. G. Hooke. Elec W 117:1008-10, 1180-2 Mr 21-Ap 4 '42

Static voltage regulator insensitive to load power factor. C. M. Summers and T. T. Short. diags Elec Eng 61:Trans 67-70 F '42

Supplying kilovar loads for war conservation and economy. M. C. Miller. diags Edison Elec Inst Bul 10:363-8+ O '42

Theory of the brush-shifting a-c motor; power-factor correction. A. G. Conrad, F. Zweig and J. G. Clarke. diags Elec Eng 61:Trans 502-13 Jl '42

What capacitor for welders. R. E. Marbury. il diag Factory Management 100:113-14 S '42

See also

Reactive power

POWER factor, Dielectric

Corona discharge on liquid dielectrics; materials responsible for increases in power factor. J. Sticher and J. D. Piper. bibliog diag Ind & Eng Chem 33:1567-74 D '41

Dielectric constant, power factor, and conductivity of the system rubber-calcium carbonate. A. H. Scott and A. T. McPherson. bibliog diags J Research Nat Bur Stand 28:279-96 Mr '42

Field measurements of insulation. E. A. Burton, J. S. Forrest and T. R. Warren. bibliog diags Inst E E J 89 pt 2:288-305; Discussion. 305-16 Ag '42

Measurements of power factor and dielectric constant at ultra high frequencies. K. G. Coutlee and others. bibliog il Am Soc T M Proc 41:1172-82 '41

Oil power-factor measured by bridge. E. J. Mommo. il diag Elec W 117:688 F 21 '42

Report on round-robin tests of power factor and dielectric constant for glass. P. A. Richards. diags Am Soc T M Proc 41:1183-97 '41

POWER of appointment

Appointment; when valid and when exhausted by exercise thereof. Trusts & Estates 73:681 D '41

Drafting a power of appointment; abstract. W. B. Leach. Trusts & Estates 73:638 D '41

Proposed tax on powers of appointment. R. Browne. Trusts & Estates 74:619-24 Je '42

POWER plants

American society of mechanical engineers; digests of power papers. diags Power 85:973-82 Mid-D '41

American society of mechanical engineers semi-annual meeting; power plant discussion. Power Pl Eng 46:90-1 Jl '42

Building a new power plant; University of Illinois. il Power Pl Eng 46:91 Mr '42

Engineer's primer. R. H. Morris. diags Power Pl Eng 46:86-7 Ja; 88-91 F; 118-20+ My; 94-6 S '42

Midwest power conference, Chicago, April 9-10. Power Pl Eng 46:94-6 My '42; Power 86:417-18 Je '42

Old Chief; reminiscences of the human side of engineering (cont). W. Doran. Power 85:889; 86:37, 86, 166, 237, 330, 392, 474, 569, 658, 726, 795 D '41-N '42

Power-plant problems; summary of discussion of ten questions by A.S.M.E. power division. Mech Eng 64:669-72 S '42

Power teamwork for victory. il diags plans map Power 86:615-46 S '42

Practical engineer and electrician; devoted to plant operation and maintenance. R. H. Morris, ed. Published in monthly numbers of Power plant engineering

Short questions, quick answers. diags Power 86:127, 518 F, Jl '42

So you want a new plant? information and data you should have. A. Iddles. Power Pl Eng 46:86-7 Mr '42

Trends in power plants. il Rock Prod 45:96-7 Ja '42

Wartime power problems; round-table session at ASME semi-annual meeting. diags Power 86:472-3+ Jl '42

Ways to get more wartime power. il Food Ind 14:44-5 F '42

See also

Boiler plants
Coal handling
Coal mines and mining—Power
Electric plants
Hydroelectric plants
Paper mills—Power
Piping (power plants)
Steam plants
Textile mills—Power

Accounting

Deriving gas engine operating costs and standardizing reports. R. W. Frazier. Pub Works 72:34 N '41

Architecture

Character and distinction in industrial architecture. D. A. Elliott. il Power Pl Eng 46:62-5 O '42

Costs

Diesels save $4,000 a year; Alwine brick co. il Brick & Clay Rec 100:18-19 Je '42

Power and steam supply in a small plant. G. H. Kimball. Power Pl Eng 46:99 N '42

Table of equivalent costs for boiler fuels. Oil & Gas J 41:49 Je 11 '42

Diesel engine auxiliaries

Alcatraz stand-by plant helps daily peak load. T. White. il Diesel Power 20:836-7 O '42

Ingenuity puts Crawford Clothes plant on the line in four months; three-pressure-level steam plant with Diesels for heat balance. il diags Power 86:312-14 My '42

Diesel engine plants

Bottling industry acts in self defense. H. J. Barbour. il Diesel Power 20:813-14 O '42

Design of internal-combustion engine power plants. G. C. Boyer. diags plan Mech Eng 64:541-4 Jl '42; Abstract. Power 86:548 Ag '42

Diesel-electric drilling rig designed for simplicity. J. P. Van Vorst. il diag Pet Eng 14:46+ O '42

Diesel-electric power generation for frozen food plants. J. E. Hubel. il Refrig Eng 43:354-6 Je '42

Diesel engine in the spice trade; Frank tea & spice company plant; with cost data. W. H. Gottlieb. il Power Pl Eng 45:70-2 D '41

Diesel engine users' association; report on heavy-oil engine working costs for the year 1940-1; summary with discussion. Engineering 154:254, 274-5 S 25-O 2 '42

Diesel installation solves difficult power problem; Adam Ross cut stone co. il Diesel Power 19:1030-1 D '41

Diesel installation with novel engineering features; Hotel Bradford, New York. N. Schaffler. il Diesel Power 20:723-6 S '42

Diesel power doubles production, reduces costs; plant producing flotation reagent from tin cans. il Diesel Power 19:954-5 N '41; Same abr. Steel 110:76-7 Ja 19 '42

Diesel power for a small factory. W. H. Gottlieb. il Power Pl Eng 46:62-4 Ag '42

Diesel pumping plant at Buzzard's Bay. F. A. Westbrook. il Power Pl Eng 46:55-6 Je '42

Diesel reduces costs 70 percent in cottonseed-oil mill. C. P. Thomas. il Diesel Power 20:571-2 Jl '42

Diesel slashes costs for western sawmill operator. T. White. il Diesel Power 20:208-9 Mr '42

Diesels in water works plants; how much fuel do they consume? W. F. Schaphorst. il Water Works & Sewerage 89:140-1 Mr '42; Correction. 89:181 Ap '42

Diesels save $4,000 a year; Alwine brick co. il Brick & Clay Rec 100:18-19 Je '42

POWER plants—Diesel engine plants—*Cont.*

Fuel saving $5 daily with new Diesel; fluorspar from tailings at Klondyke mine, Ky. il Eng & Min J 142:64 D '41

Gas-burning Diesels give fuel flexibility; Universal Atlas cement co. il diags plan Power 86:651-4 S '42

How to get the most out of Diesel and gas engines. L. N. Rowley. diags Power 86: 411-14 Je '42

Mahoning's new Diesel unit generates 240 volts a.c. J. H. Edwards. il Eng & Min J 143:55 Ap '42

Making ice with Diesels; some facts and figures. R. Hatfield. il Diesel Power 20: 399-400 My '42

Mining garnet with Diesel power; Barton mines corporation. il Diesel Power 19:1027-9 D '41

Pencils and power; General pencil co. il Diesel Power 20:42-5 Ja '42

Plant maintenance during war time. il diags chart Diesel Power 20:730-5 S '42

Power for Toledo's new Lake Erie pumping station. E. M. Wilgus. il diag Diesel Power 20:34-40, Ja '42

Powering two plants for less than one; Albert brothers. H. A. Stephens. il Diesel Power 20:743-4 S '42

Pumping plant combines utility and beauty; Sea Cliff, N.Y. il Diesel Power 20:31-3 Ja '42

Report of the Oil and gas power meeting. Diesel Power 20:643-5 Ag '42

Saving with Diesels; abstract. E. Heise. Rock Prod 45:51-2 Mr '42

Serota ice co. adds second Diesel. il Diesel Power 20:391-2 My '42

Show goes on, with Diesels; World of mirth shows, inc. il Diesel Power 20:119-20 F '42

Small plant has some unusual features. il Diesel Power 20:816 O '42

Transo Envelope uses Diesels; jacket water from engines cooled by evaporative-type heat exchanger. R. S. Jones, jr. il Diesel Power 20:821-2 O '42

What makes meter swing? Diesel engine direct-connected to generator. Power 86: 748 O '42

Efficiency

More power from existing equipment. diags Power 86:75-8, 167-74, 255-8, 411-14, 495-8, 571-4 F-Ap, Je-Ag '42

Salvaging industrial power; Gilmer company packages a program to cut electrical and other wastes. Ptr Ink 199:24-5 Je 19 '42

Small-plant performance can be bettered, even in wartime; how efficiency and output of U.S. dredge Savannah were boosted. J. S. Kernachan. il diags Power 86:337-40 Ap '42

Employees

Power teamwork for victory; pooling manpower. Power 86:646 S '42

Equipment

Automatic voltage regulators improve kilowatt quality. A. M. Shong. il diag Power 86:229-30+ Ap '42

Back-pressure plant; stand-by and supplementary source of energy, Whitbread brewery. il Elec R (Lond) 130:496-7 Ap 17 '42

Coal and ash handling plant. il diag Engineering 153:285-7, 290, 345-7 Ap 10, My 1 '42

Complete new power unit at Tama; Central fibre products company. S. Blum. il diag plan Paper Tr J 113:73-7 N 27 '41

Easy way to select economical chimney sizes. J. G. Mingle. Power Pl Eng 46:86-7 Ap '42

Fire hose sluices coal to emergency storage; Illinois iron & bolt co. il Power 86:816 N '42

How to install foundation bolts. A. H. Korn. diags Power 86:415-16 Je '42

How to make thermometers and control instruments last longer. E. F. Nordstrom. Power Pl Eng 46:104 O '42

Hydraulic couplings for auxiliaries. G. V. Edmonson. diags Power Pl Eng 46:74-5 Ja '42

Lehigh returns to the dry process; Alsen, N.Y. plant; waste heat plant produces excess power. B. Nordberg. il Rock Prod 45:36 Jl '42

More power from existing equipment. diags Power 86:75-8, 167-74, 255-8, 411-14, 495-8, 571-4 F-Ap, Je-Ag '42

New boiler and turbine for St Mary's hospital. J. H. Herzog. il diag Power 86:581-2 Ag '42

New catalogs, booklets, bulletins; 379 items covering equipment and supplies used by power engineers. Power 85:986-93+ Mid-D '41

1942 directory of manufacturers; buyers' guide of over 400 power products. Power 85:sup179-254, 254b-254d Mid-D '41

Operating electrical equipment above rated capacity. Locomotive 44:67-8 Jl '42

Part of correct lubrication in equipment maintenance. S. S. Hansen. il Power Pl Eng 46:73-5 S '42

Power and electrical developments in 1941. il diags Power Pl Eng 46:48-52 F '42

Power for a single-machine paper mill; St Regis paper co. il diags Power Pl Eng 46: 48-52 Je '42

Power for mining silica. flow diag il diags plan Power Pl Eng 46:68-72 Ap '42

Power for powder; manufacture of smokeless powder. W. O. Hauck. il Power 86:491, 494 Jl '42

Priorities problems; case method. Elec W 118:760-1 S 5 '42 [cont weekly]

Priorities problems; power generating, distribution and utilization equipment. Elec W 118:760-1 S 5 '42

Protective relaying for attended power plants. C. R. Mason. il diag Power Pl Eng 45:77-9+ D '41

Recent patents for power apparatus. J. R. Darnell, comp. diags Power Pl Eng 46:104 F; 76 Je '42

Review of power and mechanical equipment. il diags Power 85:940-70, 983-4 Mid-D '41

Steam power plant and electrical distribution; Morenci mine. B. F. Koch and S. F. French. il diag Min & Met 23:293-6 My '42

Turbo-generator installation in a brewery. il diags plan Engineer 173:201-4 Mr 6 '42

What's new in plant equipment. Published in monthly numbers of Power

Why, when, what, where and how of flow meter installation. W. C. Bennett. il chart Power Pl Eng 46:88-9, 110 O; 97-8 N '42

See also

Air preheaters
Boilers
Coal handling
Condensers (steam)
Piping (power plants)
Steam plants—Equipment

Fires and fire protection

Fighting coal-bunker fires; using CO_2 (gas, liquid and dry ice). D. Gutleben. diag Power 86:44 Ja '42

Fighting power-plant fires. W. E. Rossnagel. il diags Power 85:804-5; 86:158-60, 259-61 N '41, Mr-Ap '42

How to make emergency coal storage safe. diags Power 86:640-1 S '42

Fuel

Coal research and the war effort. A. W. Thorson. Power Pl Eng 46:98-100 My '42

Coal storage manual. R. E. Turner and others. il diags maps Power Pl Eng 46:53-76, 166 Jl '42

Fuels and power plant operation. B. F. Burns. Paper Tr J 114:55-6 My 21 '42

Meeting wartime fuel problems. O. Craig. diags Mech Eng 64:697-702 O '42

Modernizing plant broadens choice of coal. T. Maynz. Coal Age 47:90+ S '42

Morrell plant burns three kinds of fuel; operates in parallel with local utility company and generates only byproduct power. D. S. Helmick and E. L. Johnson. il diags Power Pl Eng 46:48-51 Ja '42

Much progress made in better utilization of coal as fuel. L. A. Shipman. il Min & Met 23:104-5 F '42

Oil to coal in wartime. il diags Power 86: 696-702 O '42

Power from butane. J. F. Maher. il Power 86:132 F '42

POWER plants—Fuel—*Continued*

Power teamwork for victory; fuel a key factor. il diags Power 86:638-43 S '42

Practical ways to meet wartime fuel problems; 6th annual fuels conference. diag Power 86:800-1+ N '42

Prevention of steam losses and fuel waste. V. G. Leach. Blast F & Steel Pl 30:550, 552+ My '42; Excerpts. Power Pl Eng 46:105 My '42

Steam generation with available fuels. O. de Lorenzi. Steel 111:82, 100-3 O 19; 80, 82+ O 26 '42

Table of equivalent costs for boiler fuels. Oil & Gas J 41:49 Je 11 '42

Use of mixtures of oil and coal in boiler furnaces. W. C. Schroeder. bibliog Mech Eng 64:793-8+ N '42

Utilization of coal dust and slurry from mines. J. C. Coutant. Blast F & Steel Pl 30:1038+ S '42

West Virginia coal meeting covers vital fuel needs. Power Pl Eng 46:112+ S '42

See also

Boilers—Firing

Gas engine plants

Central electrical generating plant designed for 160 wells. H. E. David. il Oil & Gas J 40:74 F 26 '42

Central generating plant installed at Big Lake field. D. H. Stormont. il Oil & Gas J 40:41+ F 5 '42

Compressor station equipped with radiator cooling system. C. L. Moore. il Pet Eng 13:79-80 Ag '42

Deriving gas engine operating costs and standardizing reports. R. W. Frazier. Pub Works 72:34 N '41

Gas engine performance at Aurora; with cost data. W. A. Sperry. il Water Works & Sewerage 89:323-9 Ag '42

Gas-engine plant powers an oil field; Magnolia petroleum co. il Power 86:60-1 Ja '42

Report of the gas engine power committee for 1941. il diag Am Gas Assn Proc 1941:373-84

Sewage gas as engine fuel; Cleveland sewage disposal plant. Blast F & Steel Pl 30:1040-1 S '42

Wells in Big Lake field now pumped by power from new generating plant. F. H. Love. il Pet Eng 13:53-4, 56+ F '42

Maintenance and repair

Effective way to control maintenance costs. J. P. Simons. Power Pl Eng 46:96 Jl '42

How to make your relief and safety valves last longer. W. J. H. Miller. diags Power Pl Eng 46:104 Ag '42

Maintenance can prevent steam turbine accidents. T. W. Howard. il Power Pl Eng 46:75-7 O '42

Maintenance of mechanical power equipment. Paper Ind 24:529-32+ Ag '42

Part of correct lubrication in equipment maintenance. S. S. Hansen. il Power Pl Eng 46:85-7 Jl '42

Plant maintenance during war time. il diags chart Diesel Power 20:730-5 S '42

Wartime power clinic. Power 86:109-11 F '42 [cont monthly]

Watch your step when making welded repairs. E. MacDermod. Power 86:760c+ O '42

Management

Here's how to save power. il Factory Management 100:122 Jl '42

Industrial power management. S. H. Coleman. Power Pl Eng 46:90-1 S '42

More production with less kilowatts. E. W. Feiler. il diag Power 86:495-8 Jl '42

Power teamwork for victory; sharing machines, materials, manpower. Power 86:644-6 S '42

Putting the know-why into small-plant operation; power plant of Washington Life building, New York. il Power 86:419-21 Je '42

Sloppy operation. Power 86:251-2 Ap '42; Discussion (Speaking of sloppy plants). J. M. Gorrie. 86:583 Ag '42

What the operator wants to know. A. Iddles. il Power Pl Eng 46:60-3+ S; 70-3 O; 77-81+ N '42

Models

Preview in miniature; use of models in designing power plants. H. E. Chesebro. il Power 86:806-7 N '42

Protection

What about bomb protection. J. M. Gorrie. diags Power 86:348-9 Ap '42

Records

Power plant record forms. E. Winholt. Power Pl Eng 46:103 Jl '42

Safety measures

Redeemables; power plant safety. Power Pl Eng 46:89 Ap '42

Safe ramps for coal-handling walkways. W. E. Rossnagel. diags Power 86:57-9 Ja '42

Tables, calculations, etc.

Meaning and use of entropy. E. S. Gray. diags Power 86:402-4 Je '42

POWER plants, Floating

America needs Diesel-electric floating emergency power plants; abstract. G. Lefebvre. Marine Eng 47:126 Jl '42

POWER plants, Portable

Emergency power. il diags Power Pl Eng 46:74-6 My '42

Mobile power equipment for wartime emergencies. il plans Elec West 89:35-7 Jl '42

Mobile power plants for navy. W. N. Oberley. plans Marine Eng 46:82 D '41; Same. Power 86:13 Ja '42; Same abr. Sci Am 166:88 F '42

Mobile power unit for emergency needs. il Eng N 129:560 O 22 '42

Portable lighting equipment on a rush job for the army. il Eng N 128:21 Ja 1 '42

Show goes on, with Diesels; World of mirth shows, inc. il Diesel Power 20:119-20 F '42

POWER pools. See Electric plants—Interconnection

POWER purchasing. See Power cost

POWER transmission

Adding life to individual drives; General electric company, Bridgeport, Conn. R. C. Sanborn. il Factory Management 100:148-9+ Ag '42

Clutches and power takeoffs. diags Power Pl Eng 46:94 Ja '42

Drives for refrigerating plants. L. Macrow. il Power Pl Eng 46:64-7 S '42

Flexible power take-off for tractor. il Elec W 118:809-10 S 5 '42

Incorporates built-in controls; pump for supplying lubricants to transmissions; patented by Mack mfg. corp. diags Machine Design 14:134 My '42

Keep your belt-driven machines running. J. R. Hopkins. il diags tables Power Pl Eng 46:59-61 Ag '42; Same cond. Concrete (mill sec) 50:189-90 Je '42; Same. Coal Age 47:78-9 Je '42; Same. Comp Air M 47:6821-2 Ag '42; Same. Paper Ind 24:368-9 Jl '42; Same, without tables. Mach 48:228-9 Jl '42

Know your planetary gears. W. F. Plume. il diags Power 86:161-4+ Mr '42

Metal-cutting forces and power requirements for machine tools. O. W. Boston. Automotive & Aviation Ind 86:30-4 My 15 '42

Modern machine tools; their hydraulic, electrical, and mechanical transmission and operation. H. C. Town. 196p $10 Pitman '41

Modern paper mill drives. E. R. Rath. il Paper Tr J 113:55-6, 58, 60+ N 27 '41

New equipment; power plant apparatus. il diag Iron Age 149:71-3 Je 11 '42

Power in chemical works; transmission problems discussed. H. Seymour. Chem Age (Lond) 47:277-80 S 26 '42

Preventing chain-drive failure. il diags Oil & Gas J 40:167-8 Ap 30 '42

Rating power-transmission equipment. Power 86:274-5 Ap '42

Remote propeller drives. F. T. Courtney. il diag Aviation 41:82-5+ My '42

POWER transmission—*Continued*
Review of power and mechanical equipment; mechanical transmission and materials handling. il diags Power 85:951-4 Mid-D '41
29th buyers reference number; plant service equipment; parts and materials. il diags Am Mach 86:317-20 Ja 22 '42
Worm reduction drives for steel plant bridges. A. E. Gibson. il diags Steel 110:72, 74-5+ Ja 19 '42
See also
Bearings
Belting
Chain gear
Clutches
Compressed air
Couplings
Electric driving
Electric lines
Electric transmission
Gearing
Hydraulic transmission
Machinery
Pulleys
Shafting
Speed variation

Tables, calculations, etc.

Exact vs. approximate belt length calculations. N. J. Mecklem. Power Pl Eng 46:91-2 F '42
How to determine WR^2. A. F. Lukens. diags Power Pl Eng 46:70-2 Ag '42
Universal joints; how to determine loads by vectorial analysis. L. D. Hagenbook and J. H. Holstein. il diags Product Eng 13:334-6 Je '42
V-belt service factors; data sheet. Power 86:210 Mr '42

POWER waste
Salvaging industrial power; Gilmer company packages a program to cut electrical and other wastes. Ptr Ink 199:24-5 Je 19 '42

POWERS, John E.
John Powers made the literal truth pay. F. Finney. Adv & Sell 35:189-90 F '42

POWERS (law)
See also
Power of appointment

POYNTING'S theorem
Energy and energy flow in the electromagnetic field. J. Slepian. J Ap Phys 13:512-18 Ag '42

PO-YOAK oil
Po-yok oil proves much like tung oil. Oil Paint & Drug Rep 142:3+ O 26 '42
United Kingdom tests oil from po-yok trees. For Comm W 9:26 O 17 '42

POZZUOLANA
Investigations on pozzuolanas; pozzuolanas and lime pozzuolana mixes; abstract. F. M. Lea. Am Cer Soc J 25 (Cer A 21):5 Ja '42
Raw materials are the important factor in portland-pozzolan cements. R. E. Davis and others. Concrete (mill sec) 50:146 Mr '42

PRASEODYMIUM
Radioactive isotopes of praseodymium. J. W. DeWire, M. L. Pool and J. D. Kurbatov. bibliog Phys R 61:564-7 My 1 '42
Zeeman effect data and preliminary classification of the spark spectrum of praseodymium—Pr II. N. Rosen, G. R. Harrison and J. R. McNally, jr. bibliog il Phys R 60:722-30 N 15 '41

PRATT and Whitney aircraft division of the United aircraft corporation
Navy E pennant to Pratt & Whitney. il Aviation 41:133-4 My '42

PRATT institute, Brooklyn
Pratt institute's School of science and technology. F. H. Gertz. il J Eng Educ 32:614-16 Ap '42

PRECIOUS metals
Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42
Rare and precious metals; increasing possibilities arise from shortage of more common metals. Z. Jeffries. il Min & Met 23:69-70 F '42
See also
Gold
Platinum
Platinum metals
Silver

PRECIOUS stones
Diamond and gem stone industrial production. P. Grodzinski. 256p bibliog(p225-7) 15s N. A. G. press, London '42
Jewelry, gem cutting, and metalcraft. W. T. Baxter. 2d ed 287p bibliog(p280) $2.75 McGraw-Hill '42
Jewelry industry wrestles with difficulties, though sales boom; skilled diamond cutters live in Holland and Belgium; Japan has a cultured pearl monopoly; nickel, tin and copper for alloys are scarce. Sales Management 50:56-7 F 15 '42
Jewels in time-pieces and instruments. P. Grodzinski. diags Engineering 152:518-19 D 26 '41
See also
Diamonds
Turquoise

PRECIPITATES
Decomposition temperatures of some analytical precipitates; barium carbonate. M. L. Nichols and R. H. Lafferty, jr. bibliog Ind & Eng Chem Anal ed 14:481-5 Je 15 '42

PRECIPITATION
Co-precipitation of radium and barium salts as a function of temperature and acidity. W. B. Pietenpol. J Chem Phys 10:211-14 Ap '42
Effect of method of preparation upon the activity of coprecipitated copper hydroxide-magnesium hydroxide catalysts. J. W. Holmes and E. H. Taylor. Am Chem Soc J 63:2911-15 N '41
Entrainment of cobalt by tin (IV) sulfide. J. F. Flagg. bibliog Am Chem Soc J 63:3150-3 N '41
Fractionation of cellulose acetate. A. M. Sookne and others. bibliog Am Dyestuff Rep 31:417-20 Ag 31 '42; Same. J Research Nat Bur Stand 29:123-30 Ag '42
Inhomogeneity in coprecipitated copper hydroxide-magnesium hydroxide catalysts and its effect upon their activity. E. H. Taylor. Am Chem Soc J 63:2906-11 N '41
New precipitant for group II ions. S. Gaddis. J Chem Educ 19:327-8 Jl '42
Precipitated starch product; effect of soap on viscosity. C. C. Kesler and W. C. Black. bibliog Paper Tr J 114:57-60 My 21 '42
Precipitation of gold from cyanide solution by zinc dust. R. Leblanc. bibliog diags Can Min J 63:213-19, 297-306, 371-9 Ap-Je '42
Precipitation reaction in aged cold-rolled brasses; its effects on hardness, conductivity, and tensile properties. R. H. Harrington and T. C. Jester. bibliog il Am Soc for Metals Trans 30:124-42; Discussion. 142-6 Mr '42
Rate of nucleation of silver chromate in supersaturated solutions. A. Van Hook and J. C. Ahlborn. bibliog J Phys Chem 46:395-9 Mr '42
Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41
Separation and determination of lead with salicylaldoxime. W. B. Ligett and L. P. Biefeld. Ind & Eng Chem Anal ed 13:813-15 N 15 '41
Separation of copper, lead, and zinc with salicylaldoxime. L. P. Biefeld and W. B. Ligett. bibliog Ind & Eng Chem Anal ed 14:359-61 Ap 15 '42
Some observations upon the precipitation of hydrous cadmium hydroxide in the presence of certain anions. T. Moeller and P. W. Rhymer. bibliog J Phys Chem 46:477-85 Ap '42
Spectrographic studies of coprecipitation; fourth-period elements with barium sulfate, and copper and zinc with lead sulfate. L. Waldbauer, F. W. Rolf and H. A. Frediani. bibliog Ind & Eng Chem Anal ed 13:888-9 D 15 '41
Studies on aging and coprecipitation; aging of lead chromate in the colloidal state; thermal aging. I. M. Kolthoff and F. T. Eggertsen. J Phys Chem 46:458-63 Ap '42

PRECIPITATION—*Continued*
Studies on aging and coprecipitation; mixed-crystal formation of lead molybdate with colloidal and flocculated lead chromate. I. M. Kolthoff and F. T. Eggertsen. bibliog J Phys Chem 46:616-20 Je '42
See also
Electric precipitation

PREFABRICATED buildings. See Buildings, Prefabricated

PREFABRICATED houses. See Houses, Prefabricated

PREFERNOGRAPH. See Preferred numbers

PREFERRED numbers
ASA approves new standard gage system for thin sheet metals. H. W. Tenney. Ind Stand 12:313-15 D '41
International sheet metal standard would help inter-American trade. R. E. Hellmund. Ind Stand 13:43-4 F '42
Preferred numbers, Prefernograph simplify product standardization. J. Gaillard. Product Eng 13:665-7 N '42

PREFERRED stocks. See Stocks, Preferred

PREGNANE
Molecular rearrangements of 17-hydroxy-pregnane compounds. H. E. Stavely. bibliog Am Chem Soc J 63:3127-31 N '41

PREGNANETRIOL
Sterols; sapogenins; 20-methylpregnanetriol and related compounds. R. E. Marker and D. L. Turner. Am Chem Soc J 64:481-2 Mr '42

PREGNANOLDIOLONE
Sterols; 17,21-dibromopregnan-2(β)-ol-20-one and its conversion to pregnanol-3(β),21-diol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:213-15 F '42

PREGNANOLONE
Sterols; the conversion of pregnan-3(β)-ol-20-one into etio-cholan-3(β)-ol-17-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:817-18 Ap '42
Sterols; the hypoiodite oxidation of pregnanolones and pregnenolones. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1842-3 Ag '42

PREGNENOLONES
Sterols; sapogenins; the action of hydrogen peroxide on the pseudosapogenin acetates and on the pregnenolones. R. E. Marker, E. M. Jones and E. L. Wittbecker. Am Chem Soc J 64:468-9 F '42
Sterols; 21-benzal-5-pregnen-3(β)-ol-20-one and allied compounds. R. E. Marker and others. Am Chem Soc J 64:1282-3 Je '42
Sterols; some 16-alkyl-pregnenolones and progesterones. R. E. Marker and H. M. Crooks, jr. Am Chem Soc J 64:1280-1 Je '42
Sterols; the conversion of 5-pregnen-3(β)-ol-20-one to dehydro-iso-androsterone. R. E. Marker and others. Am Chem Soc J 64:1276-80 Je '42
Sterols; the hypoiodite oxidation of pregnanolones and pregnenolones. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1842-3 Ag '42

PREHEATERS. See Air preheaters

PREMIER sample company
Must pay minimum wage. Paper Tr J 113:29 D 11 '41

PREMIUMS (merchandizing)
Don't save advertising; make it work! new customers won for packaged goods by offering them something extra to try the product. D. Jones. Sales Management 50:16-18 Je 1 '42
Fair-trade premium; Pepsodent company shifts offer of Bob Hope's autobiography to over-the-counter basis. Ptr Ink 197:14 N 14 '41
Premium spotlight shifts to glass, china, paper, wood and sterling silver. il Ptr Ink 199:35 My 15 '42
Premium users and their offers. Ptr Ink 199:32, 34, 38-9+ My 1 '42
Premiums are continuous sales stimulator; Pillsbury flour mills. il Ptr Ink 200:19-20 Jl 24 '42
Prunes and encyclopedias. il Ptr Ink 197:42 D 26 '41
Why let the war cramp your use of premiums? D. Jones. Sales Management 51:33-6 S 1 '42

PRENTISS, Henry, and company
Withdraws from business. Iron Age 149:92+ My 28 '42

PRESCOTT, Samuel Cate, 1872-
Sketch. por Tech R 44:182-4 F '42

PRESCRIPTION writing
Essentials of prescription writing. C. Eggleston. 7th ed rev 155p $1.50 Saunders '42

PRESERVATION of food. See Canning and preserving; Food preservation

PRESERVATION of wood. See Wood preservation

PRESIDENTIAL campaigns
New York and the next president; control of both major parties in 1944 is at stake in battle for governorship. il Fortune 26:84-7+ S '42

PRESIDENTIAL candidates
New York and the next president; control of both major parties in 1944 is at stake in battle for governorship. il Fortune 26:84-7+ S '42

PRESIDENTS (United States)
Effect on President's pay of salary limit. Comm & Fin Chr 156:1357 O 15 '42

Powers and duties

First war powers act, 1941; text. For Comm W 5:8-9 D 27 '41; Same. Fed Res Bul 28:12-15 Ja '42
FDR given power to control wires and cables. Comm & Fin Chr 155:679 F 12 '42
Opposes dictatorial powers of President, taking issue with views of Hoover. G. N. Shuster. Comm & Fin Chr 155:2216 Je 11 '42
Power of item veto asked by President. Comm & Fin Chr 155:1146 Mr 19 '42
Presidency; its tradition is leadership in freedom; will Franklin Roosevelt preserve that tradition? il Fortune 25:37-41+ Ja '42
President; office and powers; history and analysis of practice and opinion. E. S. Corwin. 2d ed rev 476p $5 N.Y. univ. press, New York '41
President signs new war powers bill. Comm & Fin Chr 155:114 Ja 8 '42
Presidential co-ordination of policy. H. W. Stoke. Ann Am Acad 221:101-7 My '42
Presidential influence on independent agencies. K. C. Cole. Ann Am Acad 221:72-7 My '42
Presidents and civil disorder. B. M. Rich. (Inst. for government research. Studies in administration 42) 235p bibliog(p221-7) $2 Brookings institution, Washington, D.C. '41

PRESS
See also
Associated press
Freedom of the press
Journalism
Newspapers
Periodicals
Public opinion

PRESS tools
Maintenance of press tools. H. R. Hageman. diags Am Mach 86:1216-17, 1286-7, 1358-9 O 29-N 26 '42

PRESSBOARD
Industrial light hood made of pressboard. E. D. Tillson. il Elec W 118:797+ S 5 '42

PRESSED metal
Pressing heavy steel shapes. E. F. Cone. il Metals & Alloys 16:232-7 Ag '42

PRESSES
All-welded press for steel building blocks for LeTourneau steel houses. il Engineering 152:346-7, 350 O 31 '41
Clutch and brake mechanism for Steel-weld presses. il Mach 48:171 Ja '42
Coining and other cold press work; Bowen products corp. H. Chase. il diags Iron Age 149:47-51 F 5 '42
Converts auto-body plant to production of wing sections and other aircraft parts by adapting double-acting crank presses; Murray corp. of America. H. Chase. il Steel 110:64-6+ Mr 23 '42

PRESSES—*Continued*

Kux automatic press. il Steel 111:108+ O 12 '42

New equipment. il Iron Age 149:50-4 Ja 29 '42

New equipment; presses and press room accessories. il Iron Age 150:65-8 Ag 6 '42

Sheridan 9 BFA heavy-duty toggle-actuated press. il Engineering 154:207 S 11 '42

29th buyers reference number. il Am Mach 86:261-9 Ja 22 '42

See also

Dies
Hydraulic presses
Printing presses

Design

Designing versatile press for powder metal parts. J. J. Kux. il diags Machine Design 14:59-62 O '42

Safety devices

Dependable guard for punch presses. il Comp Air M 47:6669 F '42

Insecure guard. Safety Eng 83:35 F '42

Midget switches make press operation safe. E. H. Schaeffer. il Factory Management 100:96 Mr '42

Power press safety. J. I. Junkin. il Safety Eng 84:43-5 O '42

PRESSING machines

Thirty-six notes replaced by one; Prosperity company, inc, Syracuse; credit for purchasers of pressing machines. G. T. Simpson. Credit & Fin Management 44:13-16 Ap '42

PRESSURE

Absolute pressure generator and its application to the free-field calibration of a microphone. W. J. Kennedy and C. P. Boner. diags Acoustical Soc Am J 14:19-23 Jl '42

Application of back-pressure tests to gathering systems. J. W. Ferguson and M. F. Shaffer. diag Oil & Gas J 41:39-42 Je 4 '42

Behaviour of materials under high pressures; abstract. P. W. Bridgman. Engineering 153:446 Je 5 '42

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Effect of pressure on enthalpy of pentane, heptane, and isooctane. E. R. Gilliland and M. D. Parekh. bibliog Ind & Eng Chem 34:360-2 Mr '42

Effect of vanes in reducing pressure loss in elbows in 7-inch square ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. bibliog il diags Heating-Piping 14:566-73 S '42; Excerpts. Sheet Metal Worker 33:47-9 D '42

Generalized thermodynamic properties of gases at high pressures. S. H. Maron and D. Turnbull. bibliog il Ind & Eng Chem 34:544-51 My '42

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38:493-530 Je '42

High pressures; abstracts. P. W. Bridgman. Mech Eng 64:312 Ap '42; Science 95:sup8-9 F 27 '42

Partial pressures of ternary liquid systems and the prediction of tie lines. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:696-700 Je '42

Pressure and vacuum conversions; tables. Chem Ind 49:531 pt 2 (Buyer's guidebook) O '41

Pressure-area-temperature and energy relations of monolayers of octadecanenitrile. L. E. Copeland and W. D. Harkins. Am Chem Soc J 64:1600-3 Jl '42

Pressure drop in the flow of compressible fluids. W. E. Lobo, L. Friend and G. T. Skaperdas. Ind & Eng Chem 34:821-3 Jl '42

Pressure relationships. G. M. Stearns. diags Oil & Gas J 40:57 Mr 19 '42

Pressure-temperature relations of petroleum fractions. W. L. Nelson and W. Haltenberger, jr. bibliog Oil & Gas J 41:38-40 Je 11; 40-2 Je 18 '42

P-V-T relations and derived quantities for hexanes. E. A. Kelso and W. A. Felsing. bibliog Ind & Eng Chem 34:161-3 F '42

Studies concerning the pressure developed during the carbonization of coal. W. Fuchs and others. 47p bibliog(p46-7) pa 50c Pennsylvania state college, State College, Pa. '41

Study of the collapsing pressure of thin-walled cylinders. R. G. Sturm. il diags Ill U Eng Exp Sta Bul 329:1-77 bibliog(p75-7) '41 (pa 80c)

Symposium on reactions and equilibria in chemical systems under high pressure. R. E. Gibson and others. bibliog Chem R 29:439-551 D '41

Theoretical calculations for explosives; explosion pressures. F. W. Brown. U S Bur Mines Tech Pa 643:1-26 bibliog(42 titles, p25-6); pa 10c Supt. of doc. '42

Thermodynamic properties of nitrogen at high pressures as analytic functions of temperature and pressure. S. H. Maron and D. Turnbull. Am Chem Soc J 64:44-7 Ja '42

See also

Atmospheric pressure
Blood pressure
Compressibility
Earth pressure
Load (mechanics)
Osmotic pressure
Piezoelectricity
Steam plants—High pressure
Strains and stresses
Vacuum
Vapor pressure
Wind pressure

PRESSURE, Osmotic. See Osmotic pressure

PRESSURE, Political

Pressure groups and administrative agencies. H. S. Foster, jr. bibliog Ann Am Acad 221:21-8 My '42

PRESSURE gages

Accurate measurements of extreme pressures and temperatures; manufacture of Bourdon tube devices. Metal Prog 41:61-2 Ja '42

How to improve machine tool performance; electric tool-pressure gage. A. R. Hand. il diag Gen Elec R 44:605-7 N '41

How to make pressure gages last longer. J. V. Tracy. Power Pl Eng 46:106 S '42

Long-distance pressure controls and gauges. E. C. McAninch. Gas Age 89:15-17+ Ja 1 '42

Pressure gages with new mechanism. il Instruments 15:332 Ag '42

Pressure-measuring device for moderate vacua. E. R. Kline. diag Ind & Eng Chem Anal ed 14:542 Jl 15 '42

Steam gauge as an index of drying conditions. W. G. MacNaughton. bibliog Paper Ind 23:793-6 N '41

See also

Ionization gage
McLeod gage
Manometers

Testing

Test equipment for low-pressure gages. H. M. Naylor. diags Power 86:511 Jl '42

PRESSURE measurement

Calculation of pressure of fluid column outside of casing. diags Oil & Gas J 40:49 Ap 2 '42

Dam outlet works in a western state; model-prototype conformity. S. P. Wing. diags Am Soc C E Proc 68:1325-33 O '42

Damage from air blast. S. L. Windes. pls U S Bur Mines Rep of Invest 3622:1-18 '42; Excerpts. Concrete (mill sec) 50:172-3 My '42

Dry-dock suction chamber; model-prototype conformity. C. B. Patterson. diags Am Soc C E Proc 68:1295-1300 O '42

Dynamic-pressure meter. il diags Engineering 152:486-7 D 19 '41

Earth pressure measurements in open cuts, Chicago (Ill.) subway. R. B. Peck. diags Am Soc C E Proc 68:900-28 Je '42

Earth pressure on tunnels; Central Avenue tunnel, Detroit. W. S. Housel. diags Am Soc C E Proc 68:929-50 Je '42

Engineering fundamentals. diags Diesel Power 20:139 F '42

Hydraulic structures; model-prototype conformity. J. E. Warnock and H. G. Dewey, jr. il diags Am Soc C E Proc 68:1269-94 O '42

PRESSURE measurement—*Continued*

Indexes that point to turbine overhaul. E. E. Harris and G. B. Warren. Elec W 118:1431-5 O 31 '42

Investigations concerning the pressures developed during the carbonization of coal. W. Fuchs and others. Am Gas Assn Proc 1941:446-7

Method for measuring hydration-pressure relationships in bentonitic materials and heaving shale. H. H. Power, B. L. Towle and J. B. Plaza. 25p bibliog(p25) Bur. of industrial chemistry, Univ. of Texas, Austin '42

Piezometer for transient pressures. A. W. Lawson and P. H. Miller, jr. R Sci Instr 13:297-8 Jl '42

Pressure drop calculations for flow in pipes. J. A. Hardy and E. N. Kemler. Heat & Ven 39:43-9 Ag '42

Pressure heads on a western dam; model-prototype conformity. J. C. Stevens and R. B. Cochrane. il diag Am Soc C E Proc 68:1343-51 O '42

Pressure loss caused by elbows in 8-in. round ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. il charts Sheet Metal Worker 33:44, 46, 48+ F '42

Simple method of applying the compressibility correction in the determination of true air speed. W. C. Schoolfield. bibliog J Aeronautical Sci 9:457-64 O '42

See also

Air blast meter
Manometers
Petroleum—Pressure measurement
Pressure gages

PRESSURE regulators

Automatic control insures process-steam reliability. C. R. Earle. diag Power 86:784-5 N '42

Centralized control lowers holder operating costs. R. Trautschold. il Gas Age 89:27+ Mr 12 '42

Characteristics of hydraulic and pneumatic relays as energy-converting devices. H. Ziebolz. diags Instruments 15:340-5 S '42

Development of hydraulic pressure regulators. W. C. Trautman. il diags Aero Digest 40:200, 202 Mr '42

Flow manostat for various purposes, including the candy test. M. J. Proffitt. pl diags J Research Nat Bur Stand 29:143-55 Ag '42

Glass valve pressure regulator. M. J. Caldwell and H. N. Barham. diag Ind & Eng Chem Anal ed 14:485 Je 15 '42

Governing turbine pressures. R. Sheppard. diags Power 86:82-4, 155-7 F-Mr '42

How to protect equipment against failure of flow; new data allow easy selection of orifices for use with differential pressure switches. W. Goodman. diags Heating-Piping 14:347-50, 417-21 Je-Jl '42

Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42

Long-distance pressure controls and gauges. E. C. McAninch. Gas Age 89:15-17+ Ja 1 '42

Multiple-supply automatic oxygen regulator. Instruments 15:232 Je '42

Oil manometer-manostat to control column throughout. S. A. Hall and S. Palkin. bibliog diags Ind & Eng Chem Anal ed 14:652-4 Ag 15 '42

Operating experience with automatic-closing valves in a transmission system. D. C. Palm. diag Gas Age 89:27-8+ My 21 '42

Pressure regulating and indicating apparatus for vacuum systems. B. Ferguson, jr. diags Ind & Eng Chem Anal ed 14:164-5 F 15 '42

Proper pressures in distribution systems in manufactured gas properties; cost data. E. C. Kolloch. Gas Age 89:13-15+ F 12 '42

Protecting transmission system against surface subsidence. J. Garrett. il diags Oil & Gas J 41:145, 148+ S 24 '42

Regulation to maintain balanced pressure on gas system. R. W. Parker. il diags Pet Eng 13:36, 38, 40 Ap '42

Simple pressure regulators; principal types and their characteristics. H. C. McRae. diags Instruments 15:44-5+ F '42

South Jennings distillate plant features high-pressure control. N. Williams. flow diag il Oil & Gas J 40:39, 41-2+ Mr 19 '42

Steel furnace instrumentation, with special reference to soaking-pit and open-hearth. M. J. Boho. flow chart il diags Instruments 15:167-72 My '42

Subsurface pressure regulation of high-pressure condensate wells. J. O. Farmer. diag Oil & Gas J 40:67-8+ F 26 '42

Suction and discharge control of products pipe line. J. W. Boyd. diag Oil & Gas J 41:96 S 24 '42

Trends in combustion control. M. J. Boho. il diags Paper Tr J 114:38-42 Ap 30 '42

Two improved pressure-regulation devices. J. H. Thelin. il diags Ind & Eng Chem Anal ed 13:908-10 D 15 '41

Valve closure assured if penstock fails; Pacific gas & electric company hydro plants. E. A. Crellin. il diag Elec W 118:928-9 S 19 '42

Wheatley liquid seal equalizer. diags Pet Eng 13:93 Jl '42

PRESSURE vessels

Collected notes on chemical safety; explosions in stills and reaction vessels. J. Creevey. Chem Age (Lond) 45:313 D 20 '41

See also

Air compressors
Ammonia compressors
Boilers
Caissons
Compressors
Digesters (paper making)
Dust collectors
Evaporators
Gas holders

Design

Designing high-pressure vessels and piping. J. Marin. diags Machine Design 14:77-81+ My '42

Determining wall thickness for pressure vessels. J. Marin. diags Machine Design 14:59-64 Ap '42

Some comments to the design of welded pressure vessels. H. F. Lassner. diags Welding J 21:383-5 Je '42

Synthetics increase demands on pressure vessels. J. W. Greve. il diags Machine Design 14:63-7 Je '42

Manufacture

Inventories of material are reduced when flanges are cut from plate. J. R. Morrill. il diags Nat Pet N 34 pt 2:R349-50 O 28 '42

Metallic arc welding of copper pressure vessels. G. H. Sandberg. il Welding J 21:507-9 Ag '42

Multi-layer construction of thick wall pressure vessels. T. M. Jasper and C. M. Scudder. il Am Inst Chem Eng Trans 37:885-909 D '41

Welding of pressure vessels, tanks and heat exchangers. H. B. Schlosser. il Welding J 20:865-9 D '41

Welding stainless pressure vessels. G. H. Sandberg. il Am Mach 86:293-5 Ap 2 '42

Safety measures

American blackout; safety measures in transporting liquefied petroleum gas. F. A. Page. Safety Eng 82:30-1 N '41

Pressure vessel code. G. Gearon. Refrig Eng 43:224 Ap '42

Pressure vessel hazards. Safety Eng 83:40 Ap '42

Testing

Ten years' progress in radiography. A. J. Moses. il diags Metal Prog 40:771-6 N '41

PRESTITE. See Porcelain, Insulating

PREVENTIVE medicine. See Medicine, Preventive

PRIBILOF islands

Sealskin scare; if Japanese have taken over Pribilof islands, ruthless slaughter may begin again. Business Week p58 Ag 15 '42

PRICE, Byron, 1891-

Censorship chief. por Business Week p17 D 27 '41

PRICE cutting

Administration of the Montana Unfair practices act. G. W. Peak. bibliog J Business 15:140-59 Ap '42

PRICE cutting—*Continued*
Loss-leader regulations. E. O. Schaller. J Retailing 17:120-1 D '41
Price law test; state acts forbidding retail sales at less than cost plus a percentage for expenses. Business Week p45 F 28 '42

PRICE discrimination
War on discounts; independent grocers vs. chains in California. Business Week p85+ D 6 '41

Patman law

F.T.C. hits glucose marketing scheme. Oil Paint & Drug Rep 141:7+ Mr 30 '42
F.T.C. hits special discount list of Life savers corporation. Oil Paint & Drug Rep 141:5+ Ja 5 '42
F.T.C. order hits glucose pricing. Oil Paint & Drug Rep 141:4+ Je 22 '42

PRICE fixing
Agricultural insecticide group hit by cease and desist order. Oil Paint & Drug Rep 142:7+ Ag 3 '42
American tobacco co., Reynolds, Liggett & Myers denied new trial and fined. Comm & Fin Chr 154:1725 D 30 '41
Arnold hits again; indictment of California grocers. Business Week p77-8 Mr 14 '42
Bid crackdown; price collusion on defense bids; indictments charging hat firms, unions with conspiracy. Business Week p26+ D 6 '41
Crepe paper men file answer to complaint by Federal trade commission charging them with conspiracy and price fixing. Paper Tr J 113:128 N 27 '41
Demurrers argued in gas pump suit. Nat Pet N 33:10 D 24 '41
Gasoline pump case dismissed by court. Nat Pet N 34:3-4 F 25 '42
Help for Arnold; Supreme court's decisions in Masonite and Univis cases. Business Week p28 My 16 '42
Milk cap makers get desist order. Paper Tr J 115:12 Jl 16 '42
National association of retail druggists, 14 New Jersey associations indicted for fixing prices. Oil Paint & Drug Rep 141:7+ Mr 30 '42
Packers' defense; case about price of Easter hams. Business Week p24 Ja 10 '42
Paper concerns indicted for price fixing. Paper Tr J 114:14 Ja 15 '42
Salt output checks outlawed by F.T.C. Oil Paint & Drug Rep 140:3+ N 17 '41

PRICE fixing, Government
Ceilings of 1777. Banking 35:40 N '42
Direct price control in Great Britain. E. R. Hawkins. Survey of Cur Business 22:12-18 Ja '42
Price control is not anti-trust violation. Comm & Fin Chr 155:1044 Mr 12 '42
Price fixing of agricultural products. W. C. Waite. Am Statis Assn J 37:13-21 Mr '42
Specific ceilings; fixing aids many industries and saves some lines from extinction. Business Week p55-6 Ag 15 '42

PRICE fixing, Resale
Fair-trade coup? use of price maintenance setups by OPA instead of base period. Business Week p47-8 Ap 11 '42
Fair trade suits not barred by price ceilings. Oil Paint & Drug Rep 142:4 Jl 13 '42
Fair trade upset; liquor industry's misuse of price maintenance contracts. Business Week p90 O 24 '42
Fixing resale price of patented articles violates trust law Supreme court holds. Comm & Fin Chr 155:1880 My 14 '42
Holds federal price control no bar to suit to enforce resale price under state law. Comm & Fin Chr 156:191 Jl 16 '42
OPA ceiling prices supersede state laws. L. Henderson. Oil Paint & Drug Rep 141:3+ My 18 '42
OPA clarifies price order and state fair trade laws. Comm & Fin Chr 155:2040 My 28 '42
OPA explains stand on ceiling prices and state fair trade acts. Comm & Fin Chr 156:178 Jl 16 '42; Same. Oil Paint & Drug Rep 142:3+ Jl 20 '42
OPA permits adoption of fair-trade prices. Oil Paint & Drug Rep 142:3+ S 28 '42
Patent price-fixing against trust laws. Oil Paint & Drug Rep 141:5+ My 18 '42
Resale price maintenance by means of fair trade laws in force April 1, 1942. 35p pa $1 Am. fair trade council, New York '42

See also
Price cutting

PRICE marks
Self-service pricing; white spot for price-marking. il Mod Packaging 16:48-50 N '42

PRICE policies
Areas of applicability of low-price policies. E. G. Nourse. 51p pa 25c Brookings institution, Washington, D.C. '42
Delivered-price systems under the anti-trust laws. G. H. Sage. Ind Marketing 27:22-3+ S; 32-3+ O; 72, 76+ N '42
Depreciation problems; relationship to competitive industry. E. L. Grant. Am Soc C E Proc 67:1623-4 N '41
Economics of price in the milk industry. J. M. Stepp. 154p pa $1 Bur. of public administration, box 1667, University station, Charlottesville, Va. '42
Free enterprise must save itself; proposed National price-limiting association. J. E. Webster. Advanced Management 7:117-22+ Jl-S '42
Pitfalls lurk where buying, selling, lack fixed prices. C. R. Rosenberg, jr. Inland Ptr 108:29-31 Mr '42
Price buyers not blind to quality. J. S. Jayse. Inland Ptr 108:70-1 Ja '42
Price reduction as a key to greater sales; Lincoln Electric. J. R. Morrill. Ind Marketing 27:34-5+ N '42

See also
Cost accounting
Discount, Cash
Price cutting
Price discrimination
Steel—Prices

PRICE tags. See Price marks

PRICES
Areas of applicability of low-price policies. E. G. Nourse. 51p pa 25c Brookings institution, Washington, D.C. '42
Between automatic and authoritarian price-making. E. G. Nourse. 38p pa 25c Brookings institution, 722 Jackson pl, Washington, D.C. '42
Distribution theory. R. B. Pettengill. 73p pa $1.10 Univ. of southern California, Los Angeles '41
Price theory; with an introductory supplement on production economics. R. B. Pettengill. 19p, 74p pa $1.35 Univ. of southern California, Los Angeles '40
Prices and wages. W. G. Keim. Am Statis Assn J 37:377-82 S '42
Priorities, allocations, prices; indexes and digests of orders, forms and price schedules; personnel and directory of administrative bodies; rev. as of July 1, 1942. Steel 111:1-38 sec 2 Jl 6 '42
Theory of competitive price. G. J. Stigler. 197p $3 Macmillan '42
Theory of prices; a re-examination of the central problems of monetary theory. A. W. Marget. v2 802p bibliog(p789-802) $6 Prentice-Hall '42; Review, by R. V. Rosa. Mech Eng 64:481-2 Je '42

See also
Cost of living
Electric rates
Gas rates
Index numbers (economics)
Inflation (finance)
Money
Price cutting
Price policies
Public utilities—Rates
Railroads—Rates
Wages

also subdivision Prices under various subjects, e.g.
Chemicals
Coal
Farm produce
Gasoline
Stocks
World war, 1939-

Forecasting

Market forecasting significance of market movements; daily highs of the U.S. Steel common stock; wheat May futures and cotton October futures. L. C. Wilcoxen. Am Statis Assn J 37:343-51 S '42

PRICES—*Continued*

Regulation

Accounting aspects of price administration. H. F. Taggart. J Account 74:11-17 Jl '42

Administration continues to fumble on price and labor problems. E. Blair. Barron's 21:4 N 24 '41

Administration of the Montana Unfair practices act. G. W. Peak. bibliog J Business 15:140-59 Ap '42

Advertising allowances not covered by price rules. Comm & Fin Chr 155:2117 Je 4 '42

Advocates stabilized wages, farm ceilings. L. Henderson. Comm & Fin Chr 156:812 S 3 '42

Aid for exporters; seven-point memorandum issued by OPA and BEW helps to clarify position of traders. Business Week p36-8 Ap 11 '42

Anti-inflation bill gives President broad powers over prices, wages, salaries. Comm & Fin Chr 156:1267 O 8 '42

Auto parts in jam; price regulation 136. Business Week p74+ My 23 '42

Basis of construction control; how the control of prices will affect construction operations. C. B. Jackson. Water & Sewage 79:22+ D '41; Same. Roads & Bridges 80: 56+ Ja '42

Basis of pricing new articles. Sheet Metal Worker 33:21+ S '42

Between automatic and authoritarian pricemaking. E. G. Nourse. 38p pa 25c Brookings institution, Washington, D.C. '42

Blanket price ceiling. Nat City Bank p51-3 My '42

Calls sweeping price regulations of OPA on consumer goods too stringent, unenforceable. C. A. Shively. Comm & Fin Chr 155: 1778 My 7 '42

Campaign to make price control work. Comm & Fin Chr 156:464 Ag 6 '42

Can prices be controlled? Bankers M 145: 74-5 Jl '42

Car lubrication, servicing prices frozen by OPA. Nat Pet N 34:3+ Je 24 '42

Ceiling price adjustment simplified by OPA. Comm & Fin Chr 156:901 S 10 '42

Ceiling prices coming for all except farm commodities. Oil Paint & Drug Rep 141: 3+ Ap 27 '42

Ceiling prices established for all warehouse-quantity steel resales. Steel 109:35 D 22 '41

Ceilings in effect for retail prices. Comm & Fin Chr 155:1948 My 21 '42

Ceilings over prices if idle and frozen inventories established. Steel 111:36 Ag 24 '42

Ceiling's the limit. S. Leacock. Banking 34: 19-22 D '41

Charges for two types of insurance may be added to maximum prices of coffee, cocoa, tea, and pepper. For Comm W 7:17-18 My 16 '42

Check trading. Economist 143:370-1 S 19 '42

Congress and President both blamed for bad price-control bill. E. Blair. Barron's 22: 4-5 F 2 '42

Construction industry to be covered by price regulation. Eng N 128:965 Je 18 '42

Consumer services placed under March price ceilings; inflation still a threat. Survey of Cur Business 22:4-5 Jl '42

Contract carrier service ceiling set. Oil Paint & Drug Rep 141:5 Je 29 '42

Control of prices and inflation. L. Henderson. Trusts & Estates 74:364-5 Ap '42

Conversion charges, extras and discounts under OPA regulation. Steel 110:24-5 Je 29 '42

Curbs on prices. Business Week p53-4 D 20 '41

Cutting red tape; OPA facilitates relief for cases of hardship. il Business Week p14 Jl 18 '42

Defending the American dollar. M. A. Linton. Weekly Underw 146:1298, 1300-1 Je 6 '42

Direct control of machinery prices. J. Dean. Harvard Business R 20 no 3:277-89 [Ap] '42

Effects of price freezing on merchandising issues. G. W. Mathis. il Mag of Wall St 70:178-9+ My 30 '42

Efforts to keep prices down, 1941. Oil Paint & Drug Rep 141:36 Ja 12 '42

Emergency price-control act. Monthly Labor R 54:794-9 Mr '42

Fair-trade coup? use of price maintenance setups by OPA instead of base period. Business Week p47-8 Ap 11 '42

Fair trade suits not barred by price ceilings. Oil Paint & Drug Rep 142:4 Jl 13 '42

Fair trade upheld over ceiling in N.Y. Oil Paint & Drug Rep 142:3 O 12 '42

Federal price control. J. E. Johnsen, comp. Ref Shelf v 15, no 4:1-266 bibliog(p245-66) '42 ($1.25)

Federal price control, July 1, 1940-Feb. 10, 1942. M. Randolph, ed. 127p U. S. Office of price administration, Washington; pa 20c Supt. of doc. '42

Fortune management poll; what does the American executive think of his future? Fortune 26:8 S '42

F.D.R. wins parity price fight. Business Week p15-16 O 3 '42

Free enterprise must save itself; proposed National price-limiting association. J. E. Webster. Advanced Management 7:117-22+ Jl-S '42

Genealogy of price control. A. Gray. Banking 35:30-1 N '42

General Max over the U.S.; price ceilings clamp down on some dynamite. J. Davenport. Fortune 26:60-1+ Jl '42

GMPR modified for U.S. territories. Oil Paint & Drug Rep 142:3+ Jl 6 '42

Government adopts drastic price control. Paper Tr J 114:8 My 14 '42

Henderson forsees inflation vanquished. Comm & Fin Chr 156:466 Ag 6 '42

Henderson wins; Wickard is playing ball. Business Week p17-19 F 7 '42

Hidden inflation; manufacturers seek salvation in long-margin lines or in lower quality. Business Week p17-18 Je 27 '42

Holds federal price control no bar to suit to enforce resale price under state law. Comm & Fin Chr 156:191 Jl 16 '42

Holes in the price ceiling; how unseen price rises are jacking up living costs in Canada. W. A. McKague. Barron's 22:13 Je 15 '42

House passes price control measure after drastic amendments. Comm & Fin Chr 154:1356 D 4 '41

How federal price control will rule U.S. business. A. C. Fatt. Ptr Ink 198:15-16+ F 6 '42

How price control affects packers and tanners. Barron's 22:6 Je 1 '42

How price control looks now. Barron's 21: 6 D 8 '41

How price controls work; developments in the field of commodities. Barron's 22:6 Mr 16 '42

How price fixing may hit retailers. Barron's 22:12 Ap 27 '42

How the price freeze works. Business Week p27-30, 32+ My 9 '42

How will the OPA fix gas and other utility rates? F. X. Welch. Pub Util 30:465-77 O 8 '42

Immediate effects of price freezing on business and advertising. Adv & Sell 35:17 Je '42

Importers aided by new OPA rule. For Comm W 8:40-1 Jl 11 '42

Importers allowed to sell above March ceiling to certain users. Oil Paint & Drug Rep 141:3+ Je 29 '42

Imports for government excepted from price order. Comm & Fin Chr 155:2131 Je 4 '42

Imports sold to U.S. not under ceiling. Oil Paint & Drug Rep 141:3+ Je 15 '42

Inflation and price control discussed by N.Y. Reserve bank in annual report. Comm & Fin Chr 155:1149 Mr 19 '42

Inflation control and the general ceiling plan. J. Backman. Trusts & Estates 74:455-61 My '42

Interpretations of maximum export price regulation. For Comm W 7:39-43 Je 6 '42

Is inflation stopped? what the new controls can and can not do. W. Gates. Mag of Wall St 71:12-13+ O 17 '42

Jottings; new Price control act. Comm & Fin Chr 155:651+ F 12 '42

PRICES—Regulation—*Continued*

Labeling required; OPA sets top prices on sheets; situation in blankets and pillows. Business Week p31-2 F 14 '42

Leeway on prices; OPA gives clear track to war procurement agencies in the finished goods field. Business Week p22+ S 5 '42

List of government-established maximum price ceilings; voluntary price ceilings; OPA stabilization efforts. Iron Age 149:82-3 Ja 15 '42

Loss-leader regulations. E. O. Schaller. J Retailing 17:120-1 D '41

Machinery ceiling set; price regulation by OPA. Iron Age 149:147-50 My 7 '42

Markdown adjustment ahead. Business Week p 13 My 9 '42

Maximum price regulation as applied to lime industry. A. F. Meyers. Rock Prod 45:76-8 Jl '42

Maximum price regulation no. 127 finished piece goods; textile fabrics: cotton, wool, silk, synthetics and admixtures. Rayon 23: 444-51 Ag '42

Menace of inflation; stake of the utilities in price control and other methods of preventing runaway costs. E. R. Abrams. Pub Util 29:79-84 Ja 15 '42

Mercury quivers. Business Week p95 Je 13 '42

Metal industry price ceilings; OPA maximum quotations on metals, machinery and other products as of Dec. 19. Iron Age 149: 121-4+ Ja 1 '42

Military ceiling; how price freeze applies to war goods. Business Week p28-9 Je 13 '42

Nailing ceilings; Canada cuts off escape to higher-priced lines; U.S. checks up on controls over strategic materials. Business Week p56+ Jl 18 '42

New export price control. For Comm W 7: 32-3 My 9 '42

New OPA financial reporting forms. W. W. Werntz. N A C A Bul 23:1159-76 My 1 '42

New price policy; future adjustments will be by industries or by commodities. Business Week p28 O 24 '42

New pricing procedure for idle or frozen material set. Iron Age 150:111 S 24 '42

1942 earnings and dividend prospects, in the face of freezing of profits, wages and prices. W. Gates. Mag of Wall St 70:60-2, 103-4 My 2 '42

Now, price ceilings on plumbing and heating jobs. Dom Eng 160:42+ Jl '42

OPA abandons single controls on prices; adopts sweeping price fixing regulation. R. Colborn. Am Mach 86:466g My 14 '42

OPA amends GMPR to aid manufacturers. Oil Paint & Drug Rep 142:5+ Jl 13 '42

OPA and BEW outline export price policy. Comm & Fin Chr 155:1449 Ap 9 '42

OPA blanket price ceiling set at March high level. Oil Paint & Drug Rep 141:3, 60-1 My 4 '42

OPA ceiling exemptions listed. Oil Paint & Drug Rep 141:7+ My 18 '42

OPA ceiling raises many problems; some price-ceiling puzzles answered. Oil Paint & Drug Rep 141:3+ My 18 '42

OPA clarifies price order and state fair trade laws. Comm & Fin Chr 155:2040 My 28 '42

OPA clarifies retail chain ceiling status. Oil Paint & Drug Rep 142:3+ Jl 20 '42

OPA enforcements. D. Ginsberg. Oil Paint & Drug Rep 141:36-7 Je 1 '42

OPA establishes price ceiling for export sales. Oil Paint & Drug Rep 141:3+ My 4 '42

OPA establishes price ceilings extending to virtually all commodities and rents. Comm & Fin Chr 155:1705+ Ap 30 '42

OPA establishes rule on new products; good for the United States armed forces and governments of friendly nations. Oil Paint & Drug Rep 142:5+ O 12 '42

OPA establishing new appeals system for price adjustments. Oil Paint & Drug Rep 142:7+ N 9 '42

OPA explains stand on ceiling prices and state fair trade acts. Comm & Fin Chr 156:178 Jl 16 '42; Same. Oil Paint & Drug Rep 142:3+ Jl 20 '42

O.P.A. financial reporting program. J Account 73:508-9 Je '42

OPA forms export price policy. Oil Paint & Drug Rep 141:3+ Ap 13 '42; Excerpt. For Comm W 7:25 Ap 11 '42

OPA has uniform method for exceptions. Oil Paint & Drug Rep 141:3 Mr 16 '42

OPA is hunting for reasons to lower chemical ceilings. Oil Paint & Drug Rep 142:3+ Jl 13 '42

OPA issues maximum prices on old rags. Paper Tr J 113:9, 16+ D 18 '41

OPA issues method for determining ceiling. Oil Paint & Drug Rep 142:5+ S 14 '42

OPA moves into the stores; Business Week p15-17 Mr 7 '42

OPA permits adoption of fair-trade prices. Oil Paint & Drug Rep 142:3+ S 28 '42

OPA price ceilings to remain in effect under terms of the emergency price control act of 1942. Oil Paint & Drug Rep 141:5+ F 23 '42

OPA price order on commodities, services. Comm & Fin Chr 155:1785 My 7 '42

O.P.A. regulations applying to new products. F. E. Seidman. J Account 74:315-18 O '42

OPA resale steel price ceiling order, condensed. Iron Age 148:88-91 D 25 '41

OPA revises rules to allow adjustments. Comm & Fin Chr 156:287 Jl 23 '42

OPA seeks financial data from corporations. Comm & Fin Chr 155:1871 My 14 '42

OPA sets price ceiling on scarce articles. Comm & Fin Chr 155:1343 Ap 2 '42

OPA signposts. Business Week p17-19 O 31 '42

OPA sleuthing. Business Week p14 Je 13 '42

OPA to police product quality. Ptr Ink 199: 38 My 8 '42

OPA's job. L. Henderson. Manuf Rec 111:27+ Je '42

OPA'S police job. Business Week p19-20+ Mr 28 '42

OPA's price ceilings crack. Business Week p15-16 Jl 11 '42

Our fight against high prices. L. Henderson. il Factory Management 100:58-63 Ja '42

Outlook for price stabilization. Survey of Cur Business 22:5 O '42

Overall price ceilings. Nat City Bank p62-5 Je '42

Packaging and container forum; interprets deposit policy. R. W. Lahey. Chem Ind 51: 231 Ag '42

Parts repriced. Business Week p28+ Jl 18 '42

Permanent ceiling orders will affect many businesses. Barron's 22:6 O 26 '42

Permanent price control policy. J. E. Johnsen, comp. Ref Shelf v 15, no 9:1-113 bibliog(p99-113) '42 ($1.25)

Place construction industry under price regulation. Eng N 129:613 N 5 '42

President criticizes farm price sections of price control act; doubts adequacy. Comm & Fin Chr 155:566 F 5 '42

President demands stabilization of wages and profits, with new ceiling on farm products; message to Congress; text. Comm & Fin Chr 156:889, 896-7 S 10 '42

President faced with issue of price control or politics. E. Blair. Barron's 22:4 Ap 20 '42

Price bill remade. Business Week p14-15 Ja 10 '42

Price ceiling court of appeals set up. Oil Paint & Drug Rep 141:3 Mr 9 '42

Price ceiling queries answered. Oil Paint & Drug Rep 141:3+ My 25 '42

Price ceilings and wartime control over the American economy. C. A. R. Wardwell and G. J. Matchett. Survey of Cur Business 22: 19-26 Je '42

Price ceilings, priorities, allocations; orders of WPB, OPA, and former OPM, having to do with prices, production, distribution, and utilization of chemicals, oils, and drugs. Oil Paint & Drug Rep 141:7+ Mr 9 '42

Price ceilings; the reasons behind price control as a means of avoiding inflation. P. L. Poirot. Soap & San Chem 17:117+ Jl '42

Price control. E. G. Daniel. 31p Bur. of business research, School of business administration, Univ. of Oregon, Eugene '42

PRICES—Regulation—*Continued*

Price control. V. H. Stempf. J Account 73:103-12 F '42

Price-control; abstract. F. Delgado. Oil Paint & Drug Rep 141:61 My 11 '42

Price control act. Nat City Bank p15-17 F '42

Price control act; Duke symposium. Comm & Fin Chr 155:2215 Je 11 '42

Price control act of 1942. Survey of Cur Business 22:17 F '42

Price-control bill passed by House. Oil Paint & Drug Rep 140:4+ D 8 '41

Price control bill signed by President. Oil Paint & Drug Rep 141:5+ F 2 '42

Price control difficulties bound to arise. A. C. Fatt. Ptr Ink 198:30, 32 F 13 '42

Price control effects in dairy, baking and textile industries. Barron's 22:6 Je 8 '42

Price control, here and now. W. Hayes. il Dun's R 49:15-23 O '41

Price control in this war. Barron's 22:6 Ja 19 '42

Price control is not anti-trust violation. Comm & Fin Chr 155:1044 Mr 12 '42

Price control requires standards. L. Henderson. Ind Stand 13:146-8 Je '42

Price-control strengthened by Senate subcommittee. Oil Paint & Drug Rep 140:3+ D 22 '41

Price control; the war against inflation. E. T. H. Kjellstrom and others. 171p $2.50 Rutgers univ. press, New Brunswick, N.J. '42

Price controls and farm products. Barron's 22:6 F 2 '42

Price education; OPA to educate retailer. Business Week p66+ My 23 '42

Price fixing flayed as one of black chapters in human history. W. E. Spahr. Comm & Fin Chr 155:1538-9 Ap 16 '42

Price fixing has a long tradition. U. Lavery. Pub Util 30:247-8 Ag 13 '42

Price fixing totalitarian. R. M. Harriss. Comm & Fin Chr 154:1346 D 4 '41

Price freeze, what it is and how it works. Business Week p14 My 2 '42

Price law policies told by Henderson. Nat Pet N 34:9 F 18 '42

Price legislation; Emergency price control act of 1942. Fed Res Bul 28:200-1 Mr '42

Price pacts not affected by trust law. L. Henderson. Oil Paint & Drug Rep 141:3 Mr 16 '42

Price regulation for printers. H. R. Wallace. Inland Ptr 110:27-30 O '42

Price regulations. Chem & Eng N 20:910-11 Jl 25 '42

Price rise preferable to subsidy policy. L. Haney. Comm & Fin Chr 156:186 Jl 16 '42

Price rules explained to retail trade associations. Comm & Fin Chr 155:1867 My 14 '42

Price rules roll over profits. Business Week p13 My 23 '42

Price schedules issued by OPA. Steel 109:40a N 17 '41

Price section for the metals, metalworking and allied industries; corrected to Feb. 9, 1942. Iron Age 149:1-19 sec 2 F 12 '42

Price subsidy, by proxy. Business Week p7 Je 27 '42

Price-wage control bullish for stocks. B. Ravits. Barron's 22:3 O 19 '42

Prices during war; regulations affecting the cosmetic industry. R. W. Burns. Oil Paint & Drug Rep 141:64-5 Je 22 '42

Prices up to Senate. Business Week p17-18 D 6 '41

Pricing new items. Business Week p67-8 Ag 8 '42

Principal price forms for metalworking industry; checklist of forms, related orders, and effective dates as established by OPA. Iron Age 149:122 Mr 26 '42

Products under price control, Jan. 31, 1942. Business Week p17 F 7 '42

Progress of price regulation to September, 1942. S. Nelson. Monthly Labor R 55:659-79 O '42

Questions and answers about current price control problems. Sales Management 51:22-4 Jl 15 '42

Railroad 6 percent rate increase clarified. Oil Paint & Drug Rep 141:3+ My 11 '42

Relation of price control to the utilities. T. N. Sandifer. Pub Util 28:682-7 N 20 '41

Retail price ceilings opposed by association. L. Hahn. Comm & Fin Chr 155:1542 Ap 16 '42

Retail price control. V. Abramson and C. F. Phillips. Harvard Business R 20 no 2:184-98 [Ja] '42

Retail services frozen. Comm & Fin Chr 156:109 Jl 9 '42

Roosevelt signs Emergency price control act; commodity ceilings planned to check inflation. Comm & Fin Chr 155:584 F 5 '42

Sales to British, and for lend-lease, subject to OPA price regulations. For Comm W 8:49 Jl 11 '42

Sample statement showing method which shops servicing electrical and gas appliances and radios must file with local War price and rationing board. Am Gas J 157:50-1 O '42

Seasonal goods under special ceilings. Business Week p66+ My 23 '42

Sets price formula on Christmas lines. Comm & Fin Chr 156:1715 N 12 '42

Should utility rates be frozen? F. B. Warren. Pub Util 30:94-7 Jl 16 '42

Six biggest snags in the path of price control. W. Mitchell, jr. Sales Management 50:20-2 F 15 '42

Small retailers seem to like price ceilings. Ptr Ink 199:19 My 22 '42

Some effects of price control. J. Hirsch. Barron's 22:3 My 11 '42

Squeeze at work; method of applying ceiling prices in the pork and beef slaughtering industry. Business Week p87 Jl 11 '42

Standards association to aid in pegging price to quality of product. Steel 111:55 Ag 10 '42

Statement of considerations involved in the issuance of the general maximum price regulation. Fed Res Bul 28:441-9 My '42

Stymied by Washington. Business Week p13-14 N 29 '41

Summary of war regulations up to Jan. 2, 1942; priorities, allocations, import and price controls. Chem Ind 50:283-98 pt 2 F '42 [cont monthly]

Sweeping price order directed chiefly at light consumers goods. Steel 110:47+ My 4 '42

Talking tough on inflation. Business Week p15-16 S 12 '42

Text of Emergency price control act of 1942. Comm & Fin Chr 155:673-5 F 12 '42

Text of executive order providing for stabilizing wages, salaries, farm prices, etc. F. D. Roosevelt. Comm & Fin Chr 156:1265+ O 8 '42

Textile war manual; how price ceilings, priorities, and allocations affect textiles. Textile World 92:74-81 F; 61-2 Mr; 68+ Ap; 63-4 My; 64-5 Je; 67-8 Jl; 56-7 Ag; 85-6 S; 65-6 O; 66-7 N; 65 D '42

Uncle Sam's price; ceiling affecting military procurement program. Business Week p18+ My 30 '42

U.S. savings-loan league sees better outlook for small property owner under price control. Comm & Fin Chr 156:1435 O 22 '42

Wages and prices. R. E. Summers, comp. Ref Shelf v 15, no 6:1-219 bibliog(p207-19) '42 ($1.25)

War expansion and price inflation. S. H. Nerlove. bibliog J Business 15:95-130 Ap '42

Warehouse receipts; General maximum price regulation. Banking 35:48 Jl '42

Wartime price control. G. P. Adams, jr. 153p $3; pa $2.50 Am. council on public affairs, Washington, D.C. '42

Wartime price control and the Americas. S. E. Harris. For Comm W 8:12 Jl 11 '42

Wartime price regulations, April 1942. Monthly Labor R 54:1336-9 Je '42

Wartime purchasing procedures. L. M. Cherne, ed. 632p $4 Research inst. of Am, New York '42

Washington fiscal policy; its war and postwar aims. G. Colm and G. M. Alter. Fortune 26:122-3+ O '42

Washington's significant orders on materials and prices. Published in weekly numbers of Business week

PRICES—Regulation—*Continued*

Where does OPA stand on utility rate freezing? H. R. Booth. Pub Util 30:162-5 Jl 30 '42
Wholesale price indexes of controlled and uncontrolled commodities, 1941; chart. Survey of Cur Business 22:2 Mr '42
Wholesaler must notify retailer of ceiling change. Oil Paint & Drug Rep 142:5+ Ag 31 '42
Wholesalers, retailers licensed under all price ceilings. Oil Paint & Drug Rep 142:3 Ag 10 '42
Why of over-all price control; background of present inflationary trend similar to that of last war. C. Vogel. Barron's 22:3 Ap 20 '42
Why price fixing is again to the fore. Barron's 22:1 Ap 13 '42
X marks the price; mail-order and chain-store organizations and three-weeks-old price-freezing order. Business Week p71-3 My 23 '42

See also
Price discrimination
Price fixing, Government

Australia

Wartime price and trade controls in Australia. M. B. Dale. il For Comm W 6:8-9+ Ja 3 '42
War-time price control and price movements in an open economy: Australia, 1914-20 and 1939-40. E. R. Walker and R. J. Linford. bibliog R Econ Statis 24:75-86 My '42

Canada

Advertising flourishes in Canada despite price ceiling; merchandisers keep up activity. M. Brown. Ptr Ink 199:22, 24, 27-8 Je 12 '42
Assist for Ottawa; program of U.S. expected to ease some of Canada's problems. Business Week p41+ My 2 '42
Canada pioneers in price control. H. S. Moffatt. Barron's 22:43-4 Ja 12 '42
Canada under the lid; price ceiling successfully erected over the Dominion's economy. B. Hutchison. Fortune 26:62-3+ Jl '42
Canadian and British price control results. Barron's 22:6 My 11 '42
Canadian price regulations. Bankers M 144:58+ Ja '42
Canadian wartime price control. J. Backman. Dun's R 49:11-19+ D '41
Canadians urged to endure price control as means of avoiding inflation catastrophe. C. H. Carlisle. Comm & Fin Chr 154:1668 D 25 '41
Ceiling postponed; Canada's price deadline moved to Dec. 1. Business Week p82+ N 15 '41
Continental unity; Canada feels price-fixing job might be facilitated if U.S. would act simultaneously. Business Week p36 Mr 21 '42
Control of wages and prices in Canada. Monthly Labor R 53:1392-6 D '41
How Canada did it. Business Week p41-2+ My 9 '42
Import ceilings; Canadian price controls affect the job of selling goods across border. Business Week p47-8+ D 13 '41
Machinery of Canadian price control. A. F. Peterson. For Comm W 6:4-5+ Mr 7 '42
Ottawa price czar, Donald Gordon. Business Week p69-71 N 29 '41
Price control in Canada. Economist 142:646-7 My 9 '42
Price control in Canada and what it may be here. A. C. Fatt. Ptr Ink 198:26, 30 F 20 '42
Price control snag; Ottawa administrator not specific about import subsidies. Business Week p38-9 D 27 '41
Price pickle; Canadian business men hope relief will come when U.S. controls are set up. Business Week p46-8 Ap 25 '42
Price regulations in Canada. Monthly Labor R 54:54-5 Ja '42
Real price control; Canada swings its drastic program into action. Business Week p62, 64+ D 6 '41
Review of Canadian wartime trade control measures. M. H. Fricker. For Comm W 7:7-9 Ap 25 '42
Six months of Canadian experience under a general price ceiling. J. Backman. il Dun's R 50:5-10+ Ag '42
Some details of Canadian price control policy, with special reference to imports. For Comm W 5:8-9+ D 13 '41
Subsidies in the Canadian price control. For Comm W 7:12-14+ My 23 '42

Congo, Belgian

Price-control regulations in Belgian Congo and Ruanda Urundi. For Comm W 6:12-13 Ja 3 '42

Europe

Price stop policy in Europe. Economist 142:148 Ja 31 '42

France

French price control; from Blum to Petain. L. Franck. 57p pa 50c Brookings institution, 722 Jackson pl, Washington, D.C. '42
Road to rationing; results of price and wage control as shown by French experience. R. Picard. Trusts & Estates 74:351-5 Ap '42

Germany

Price control in Germany. Economist 142:896 Je 27 '42; Same. Trusts & Estates 75:220-1 S '42

Great Britain

Britain under price control. Business Week p34, 40+ Ja 10 '42
British price-control act of 1941. Monthly Labor R 53:1159-60 N '41
Control of prices. Economist 142:405 Mr 21 '42
Direct price control in Great Britain. E. R. Hawkins. Survey of Cur Business 22:12-18 Ja '42
Economic curiosity; clothes coupons and maximum profit margins. Economist 143:266 Ag 29 '42
Extension of rationing and price control in Great Britain. Monthly Labor R 54:1222-3 My '42
Factors influencing the general movement of prices in Great Britain. E. R. Hawkins. Survey of Cur Business 21:11-18 D '41
Price control of textiles and clothing in Great Britain. For Comm W 8:16-17 S 19 '42

Paraguay

Municipal price control commissions established in Paraguay. For Comm W 6:17 Ja 24 '42

South Africa

Control of manpower and prices in South Africa. Monthly Labor R 54:1340-2 Je '42

Statistics

Arithmetic monsters and economic absurdities; the omnibus index number. B. Jones. J Account 73:225-34 Mr '42
Commodity prices, 1941. Survey of Cur Business 22:12-17 F '42
Commodity supplies and prices. Fed Res Bul 28:195-201 Mr '42
Fairchild publications retail price index. Comm & Fin Chr 155:1157 Mr 19 '42 [cont monthly]
Indexes of the terms of trade between areas in the United States. W. C. Waite. R Econ Statis 24:22-30 F '42
Price control fairly effective since May. Survey of Cur Business 22:3 O '42
Price control, here and now. W. Hayes. il Dun's R 49:15-23 O '41
Price increases in two wars. Barron's 21:1 N 17 '41
Retail prices. Published in Monthly labor review
Retail prices in certain countries in Oct. 1940. Int Labour R 45:233-9 F '42
Retail prices in certain countries in October 1941. Int Labour R 46:512-17 O '42

PRICES—Statistics—*Continued*

Wholesale price index, World war I and II; chart. Barron's 22:6 Ja 19 '42

See also

Cost of living—Statistics

Prices, Wholesale—Statistics

Australia

War-time price control and price movements in an open economy: Australia, 1914-20 and 1939-40. E. R. Walker and R. J. Linford. bibliog R Econ Statis 24:75-86 My '42

Canada

Canada pioneers in price control. H. S. Moffatt. Barron's 22:43-4 Ja 12 '42

Canada; publication of additional statistical series. Fed Res Bul 28:451, 520-1 My '42

Canadian fund for food price subsidy. Comm & Fin Chr 155:1783 My 7 '42

Canadian wartime price control. J. Backman. Dun's R 49:11-19+ D '41

Magazine payments and Canadian price ceiling law. Business Week p40-1 Ap 11 '42

Price control in Canada. Economist 142:646-7 My 9 '42

Prices and price indexes, 1913-1940 (commodities, securities, foreign exchange). H. F. Greenway. 89p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Prices and price indexes supplement, 1941. 106p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Six months of Canadian experience under a general price ceiling. J. Backman. il Dun's R 50:5-10+ Ag '42

Subsidies in the Canadian price control. For Comm W 7:12-14+ My 23 '42

Cuba

See also

Cost of living—Cuba

Finland

Price levels. For Comm W 8:17-18 Ag 1 '42

France

French price control; from Blum to Petain. L. Franck. 57p pa 50c Brookings institution, 722 Jackson pl, Washington, D.C. '42

Germany

Price control. Economist 142:896 Je 27 '42; Same. Trusts & Estates 75:220-1 S '42

Great Britain

Britain under price control. Business Week p34, 36, 40+ Ja 10 '42

Commodity prices, 1941. Economist 142:sup5 Mr 14 '42

Economics of price determination. C. C. Saxton. 190p 10s 6d Oxford '42

Effects of the war on British marketing; a guide for American business. E. R. Hawkins. U S Bur For & Dom Com Economic Ser 18:1-74; pa 15c Supt. of doc. '42

Factors influencing the general movement of prices in Great Britain. E. R. Hawkins. Survey of Cur Business 21:11-18 D '41; 22:12-18 Ja '42

Price control; food prices, 1941. Economist 142:sup19-20 Mr 14 '42

Price control of textiles and clothing. For Comm W 8:16-17 S 19 '42

Retail prices in 1941. Economist 142:235 F 14 '42

Mexico

Prices are still going up. Bankers M 145:240-1 S '42

Paraguay

Municipal price control commissions established. For Comm W 6:17 Ja 24 '42

United States

American commodity markets after 2 years of war. S. Nelson. Monthly Labor R 53:1071-1102 N '41

Campaign is launched to prevent rising prices; National committee to keep prices down. Comm & Fin Chr 155:119 Ja 8 '42

Ceilings of 1777. Banking 35:40 N '42

Commodity futures prices; spot commodity prices. Published in weekly numbers of Barron's

Current market quotations (listed alphabetically by name of product; with indication of wartime status). Published in weekly numbers of Oil, paint and drug reporter

Price ceilings and wartime control over the American economy. C. A. R. Wardwell and G. J. Matchett. Survey of Cur Business 22:19-26 Je '42

Prices turn soft. Business Week p93 Je 13 '42

Property values going up; examples of rise in machinery, equipment and building costs. H. C. Helm. Nat Underw 45:3+ D 25 '41

What is going to happen to prices? M. Palyi. Am Business 11:14-16 D '41

See also United States—Price administration, Office of

PRICES, Retail

Price variations among retail grocery stores of Burlington, Vermont. D. D. Nuetzman and M. Muse. il Vermont Agric Exp Sta (Burlington) Bul 466:1-40 bibliog(p40) '40

Retail price control. V. Abramson and C. F. Phillips. Harvard Business R 20 no 2:184-98 [Ja] '42

PRICES, Wholesale

Statistics

British wholesale prices, annually, 1929, 1938-1940; monthly, 1941. Economist 142:sup30 Mr 14 '42

Canada; publication of additional statistical series. Fed Res Bul 28:451, 520-1 My '42

Daily wholesale price index of 30 basic commodities. Published in monthly numbers of Dun's statistical review; summary in Dun's review

Economist index number of wholesale prices; yearly averages, 1929, 1932, 1938-41; monthly, 1941. Economist 142:sup30 Mr 14 '42

From war to war, annual movement of wholesale commodity prices by groups, 1914-1940, and weekly index, present war; charts. W. Hayes. Dun's R 49:20-1 O '41

Price movements in principal countries; all commodities, 1926, 1930-1940 and monthly Nov. 1940-Nov. 1941. Fed Res Bul 28:90 Ja '42 [cont monthly]

Weekly wholesale commodity price index of the National fertilizer association. Published in weekly Thursday numbers of Commercial & financial chronicle

Wholesale price indexes of controlled and uncontrolled commodities, 1941; chart. Survey of Cur Business 22:2 Mr '42

Wholesale prices, December and year 1941. Monthly Labor R 54:523-9 F '42

Wholesale prices, groups of commodities in United States, Canada, United Kingdom, Germany, 1926, 1930-1941 and monthly March 1941-March 1942. Fed Res Bul 28:520 My '42 [cont monthly]

Great Britain

Wholesale prices in Dec. 1941; with comparisons for Dec. 1940 and Aug. 1939. Economist 142:198 F 7 '42

United States

Wholesale prices by groups of commodities, yearly 1929-1940, by months and by weeks, 1941. Fed Res Bul 28:65 Ja '42 [cont monthly]

PRIMACORD detonating fuse. See Fuses

PRIMATES

Growth of primate literature since 1800. T. C. Ruch and J. F. Fulton. Science 95:47-8 Ja 9 '42

PRIME movers. See Diesel engines; Gas and oil engines; Steam engines; Steam turbines; Windmills

PRINCETON, New Jersey

State of the public works and public property of the borough of Princeton, N.J; excerpts from report to the Mayor and Council. I. R. Riker. il Pub Works 73:20-2 Ag '42

PRINCETON university

School of engineering

Princeton university, School of engineering. K. H. Condit. il J Eng Educ 32:714-15 My '42

PRINCIPAL and agent. See Agency (law)

PRINTERS

Earnings and hours in book and job printing, January 1942; hourly earnings. E. B. Harris and W. C. Linn. Monthly Labor R 55:785-801 O '42

In time of war prepare for peace. E. E. Sheldon. Inland Ptr 108:28-9 F '42

Jap printers write "30" to West Coast businesses. C. M. Litteljohn. Inland Ptr 109:25 Ap '42

Lengthened life span of printers. Monthly Labor R 55:527-9 S '42

Loss of trained men to other fields faces graphic arts. Inland Ptr 108:21-3 D '41

One youth's view of printing. Inland Ptr 108:64-5 D '41

Printing-trades wages in Mexico, 1942. Monthly Labor R 55:841 O '42

Union wages and hours in the printing trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1538-67 D '41; Correction. 54:759-60 Mr '42; Reprint, with additional data. U S Bur Labor Statistics Bul 708:1-81; pa 15c Supt. of doc. '42

Union wages on government-contract printing in Argentina. Monthly Labor R 55:361 Ag '42

Zoological analysis of association membership. A. C. Kiechlin. Inland Ptr 109:31-2 Je '42

See also

Graphic arts emergency council
Linotype operators
United typothetae of America

Diseases and hygiene

Lead exposures in the printing industry in Virginia. R. T. Homewood and H. J. Worsham. Ind Med 11:186-8 Ap '42

Poisoning in lithography. J. Stark. Inland Ptr 108:66 F '42

PRINTERS' ink (periodical)

On turning over a new—and larger—leaf. Ptr Ink 197:9-11 D 26 '41

PRINTING

Developments in the graphic arts, 1941. M. S. Kantrowitz. bibliog Paper Tr J 114:45-8 Mr 26 '42

Outlines novel plan for grammar clarity; identification of vowels by diacritical marks urged. E. N. Teall. Inland Ptr 108:69-70 N '41

Printing and progress. A. Taylor; G. O. Arlt. 67p $1.50; pa $1 Univ. of California press, Berkeley '41

Review and forecast. J. Boday. il Adv & Sell 35:159-60, 162 F '42

12 rules for planning printing under war-time restrictions. Sales Management 50:20 Mr 1 '42; Same. Management R 31:279-80 Ag '42

See also

Advertisements
Advertisements—Typography
Book industry and trade
Calendars
Christmas printing
Church printing
College annuals
Color printing
Initials
Ink
Paper
Photoengraving
Photography
Posters
Printing offices
Printing presses
Printing trade
Proofreading
Publishing
Silk screen printing
Textile printing
Type and type founding
Typesetting
University presses

Design

Tricks with type and rules and ornaments. il Inland Ptr 108:72 F '42

Typographic clinic; Baker University booklet. F. H. Young. il Inland Ptr 109:52-3 My '42

See also

Initials

Dictionaries

Dictionary of printing terms. R. T. Porte. 4th ed rev & enl 169p $1.75 Porte pub. co, 952 E. 21st South st, Salt Lake City '41

Paper trade terms; a glossary for the allied trades, printing and paper. W. B. Wheelwright, comp. 47p 50c Callaway associates, Boston '41

History

Benjamin Franklin; the printer at work. L. C. Wroth. Franklin Inst J 234:105-32 Ag '42

Private presses

See also

Merrymount press

Prize contests

Business card contest winners! il Inland Ptr 109:54-7 My '42

Honorable mention winners in business card contest! il Inland Ptr 109:40-1 S '42

Specimens

Specimen review. J. L. Frazier. Published in monthly numbers of Inland printer

See also

Business cards

Nebraska

Bibliography

Check list of Nebraska non-documentary imprints, 1847-1876. preliminary ed 132p Nebraska state historical soc, State capitol, Lincoln '42

PRINTING, Offset

Better control of register in printing offset work. J. Stark. Inland Ptr 110:63-4 O '42

Canada printer produces university annual by offset process; McGill year book. R. Joiner. il Inland Ptr 108:64-5 N '41

Coated paper sticks. J. Stark. Inland Ptr 109:65 Ap '42

Deep-etch replacing other plates. J. Stark. Inland Ptr 108:67-8 Mr '42

Experimental study of beater practice in the manufacture of offset papers. C. G. Weber and others. bibliog J Research Nat Bur Stand 28:241-64 Mr '42

Good offset needs correct ink and water balance. J. Stark. Inland Ptr 109:50-1 Je '42

Knowledge of paper vital to the offset pressman. J. Stark. Inland Ptr 109:37-8 My '42

Offset continues as one of printers' greatest bugbears. E. St John. Inland Ptr 109:57-9 Ag '42

Offset technique. J. Stark. Published in monthly numbers of Inland printer

Plate graining with pH control. J. Stark. Inland Ptr 109:53-4 Jl '42

Silver ink on offset press. J. Stark. Inland Ptr 108:66-7 F '42

Streaks on halftone image. J. Stark. Inland Ptr 108:71 N '41

PRINTING, Practical

Close relation with customer and engraver aids printer; careful preparation of dummy, layout, and artwork. R. C. Crehore. Inland Ptr 109:29-31 Ap '42

Graphic arts. W. H. Johnson and L. V. Newkirk. 160p $2.50 Macmillan '42

Why blame the paper? summary of printers' problems. E. Sutermeister. Pulp & Pa of Can 42:780-2 D '41

See also

Advertisements—Typography
Color printing
Ink
Newspapers—Typography
Printing offices
Printing plates
Printing presses
Printing trade
Proofreading
Stereotyping
Type and type founding
Typesetting
Word division

Bibliography

Books on advertising and publishing; a bibliography of books especially helpful in the solution of production and management problems in the graphic arts. G. U. Cleeton, comp. 36p Carnegie inst. of technology, Pittsburgh '41

PRINTING, Practical—*Continued*

Copy preparation

Alterations are costly to customer as well as to printer; correct preparation of copy cuts composing-room time; promotes better printer-customer relations. T. L. Shepherd. il Inland Ptr 109:26-8 Ap '42

Errors in print world are for all world to see. E. N. Teall. Inland Ptr 108:60 F '42

Costs

Alterations are costly to customer as well as to printer; correct preparation of copy cuts composing-room time; promotes better printer-customer relations. T. L. Shepherd. il Inland Ptr 109:26-8 Ap '42

Cutting corners for economy is better than cutting cuts; reader interest is lowered with curtailed use of illustrations in magazines. sales literature. C. N. Tunnell. il Inland Ptr 109:30-2 Jl '42

Estimates

Pitfalls lurk where buying, selling, lack fixed prices. C. R. Rosenberg, jr. Inland Ptr 108:29-31 Mr '42

Standard book on estimating for printers. F. W. Hoch. rev ed 268p $3.75 F. W. Hoch associates, 461 8th av, New York '41

Layout

See also
Advertisements—
Layout

Lockup

Plant arrangement shift reduces lockup time. W. Laufer. diags Inland Ptr 109:32-3 Ap '42

Make-up

Celluloid is versatile aid in composing room. A. R. Tommasini. Inland Ptr 108:40-1 Mr '42

Job tie-up a tricky but important procedure. I. Lush. Inland Ptr 108:59-60 F '42

Measurements

Conflict of inches versus picas goes merrily on. Inland Ptr 109:39-40 Je '42

Presswork

Better control of register in printing offset work. J. Stark. Inland Ptr 110:63-4 O '42

Cold affects inking. Inland Ptr 108:77-8 Mr '42

Depth and tone separation vital in halftone reproduction. J. T. Wrigley. il Inland Ptr 109:35-9 Ap '42

Hidden offset causes ghost printing on coated paper. H. B. Marshall and A. M. Birks. il Inland Ptr 108:33-6 Mr '42

Knowledge of paper vital to the offset pressman. J. Stark. Inland Ptr 109:37-8 My '42

Preliminary makeready. E. St John. Inland Ptr 109:49-50 S '42

Premakeready. E. St John. Inland Ptr 108:61 F '42

Pressroom. E. St John. Published in monthly numbers of Inland printer

Rosin and acetone halt workups. Inland Ptr 109:38 Jl '42

Spots in the impression. Inland Ptr 109:39-40 Jl '42

Typewriter imitations. E. St John. Inland Ptr 108:45 N '41

Visible record system saves many press washup hours. W. Amshey. il Inland Ptr 109:27 Jl '42

Study and teaching

In time of war prepare for peace. E. E. Sheldon. Inland Ptr 108:28-9 F '42

Style manuals

Proofreading and copy-preparation. J. Lasky. 656p bibliog(p613-21) $7.50 Mentor press, 360 W. 23d st, New York '41

Tables, calculations, etc.

Trim time when you are trimming slugs. F. D. Compagnon. Inland Ptr 109:32 Jl '42

Tie-up

See Printing, Practical—Make-up

PRINTING, Public

Mounting government competition threatens graphic arts. F. H. Branham. Inland Ptr 109:31-4 My '42

Public printer answers critics of the Government printing office. A. E. Giegengack. Inland Ptr 109:23-5 Je '42

PRINTING associations

Groups work for consolidation of graphic arts on a national scale. Inland Ptr 108:43 Ja '42

New unity program of U.T.A. fails to develop. Inland Ptr 108:53 D '41

PRINTING ink. See Ink

PRINTING machinery

See also
Printing presses

Manufacture

Castings are painted before machining; American type founders inc. il Steel 111:100+ Jl 13 '42

PRINTING machinery industry

Don't let priorities force you to use wasteful machinery. H. R. Wallace. Inland Ptr 109:23-6 S '42

Machine and supply men regard future with confidence. R. Joiner. Inland Ptr 108:25-7 F '42

PRINTING materials

High gloss liquid plastic used in printing process. il Sci Am 166:66 F '42

Machine and supply men regard future with confidence. R. Joiner. Inland Ptr 108:25-7 F '42

New materials and methods under war economy. E. W. Palmer and others. Inland Ptr 109:32 S '42

Plastics play vital role in graphic arts; wider use for synthetics seen. H. A. Levey. Inland Ptr 108:68-9 N '41

Printing industry must regulate self or be regulated by W.P.B. E. W. Palmer. Inland Ptr 110:31-3 O '42

Printing metal supplies are assured. Inland Ptr 108:73-4 N '41

12 rules for planning printing under war-time restrictions. Sales Management 50:20 Mr 1 '42; Same. Management R 31:279-80 Ag '42

War shortages affect printing industry. E. W. Palmer. Comm & Fin Chr 156:637 Ag 20 '42

PRINTING offices

Men in army; mother runs shop. il Inland Ptr 108:74 F '42

New printing plant a modern beauty! W. A. Kemp, Yuba City, Calif. il diag Inland Ptr 109:24 Jl '42

Air conditioning

W. F. Hall printing company. R. E. Hattis. il Heat & Ven 39:64-5 Ja '42

Cleanliness

Cleanliness pays southern printer big dividends; Ambrose the printer, in Jacksonville, Florida. F. E. Kunkel. Inland Ptr 108:47 Mr '42

Electric equipment

How to maintain positioning for successive operations in multicolor printing. W. L. Wright. il diags Gen Elec R 44:629-31 N '41

Employees

Labor shortage; 18 ways to meet the problem. L. S. Flint. Inland Ptr 110:35-6 O '42

See also
Printers
Printing trade—
Salesmen

Equipment

Demand for color, bleed, and speed requires new equipment; McCall printing plant. C. C. Westland. il diags Inland Ptr 108:40-4 N '41

See also
Printing presses

PRINTING offices—*Continued*

Fires and fire protection

War, defense, lend added import to fire prevention study. L. F. Maar. il Inland Ptr 108:67-9 Ja '42

Heating and ventilation

Syracuse post-standard installs exhaust ventilating system in pressroom; filters prevent flying ink particles from coating the ductwork and fan. D. M. Lyon. il Heat & Ven 39:29 Je '42

Layout

Increased costs result from wasted footsteps in plant. W. Laufer. diags Inland Ptr 108:48-9 Mr '42

Plant arrangement shift reduces lockup time. W. Laufer. diags Inland Ptr 109:32-3 Ap '42

Lighting

Better lighting means better work in all plant departments. C. N. Everett. il Inland Ptr 108:36-9 N '41

Management

Constant combing of field essential to secure new customers. Inland Ptr 109:25-6 Jl '42

Craftsmen's convention. Inland Ptr 109:30-6 S '42

Efficiency is production watchword in private plant; methods used by United drug company's Boston plant. C. A. Merrill. il Inland Ptr 108:37-40 Mr '42

This production control system has an attractive simplicity. H. Wood. Inland Ptr 109:27-9 S '42

War accentuates need for industry cooperation. F. M. Sherman. Inland Ptr 109:50 Je '42

Records

Efficiency is production watchword in private plant; methods used by United drug company's Boston plant. C. A. Merrill. il Inland Ptr 108:37-40 Mr '42

Visible record system saves many press washup hours. W. Amshey. il Inland Ptr 109:27 Jl '42

PRINTING offices, Private

Costs

Private plant saving its owner 30 per cent. Inland Ptr 108:61 N '41

PRINTING on plastics

Printing and coloring acetate. il Mod Plastics 19:54 My '42

Signs for the duration, and after; name plates, markers, etc. il Mod Plastics 19:51-4 Je '42

PRINTING plates

Deep-etch replacing other plates. J. Stark. Inland Ptr 108:67-8 Mr '42

Rounding up old metal. Business Week p56 Ag 15 '42

See also
Stereotyping

Manufacture

Makers of printing plates list facilities for war production. Steel 110:97 Je 8 '42

PRINTING plates, Plastic

Printing with thermoplastic plates. E. A. Williamson. il Mod Plastics 20:59-61 O '42

PRINTING plates, Rubber

Electric steam molds rubber plates. il Elec W 117:118 Ja 10 '42

How to prepare victory rubber plates. J. N. Cronk. il diag Inland Ptr 109:33-6 Jl '42

Rubber plates may spell victory! J. N. Cronk. il Inland Ptr 109:27-30 Je '42

Victory over costs by the use of low-price rubber plates. J. N. Cronk. il Inland Ptr 109:27-31 Ag '42

PRINTING presses

Adam Ramage and his presses. M. W. Hamilton. 35p bibliog(p31-5) Southworth-Anthoensen press, 105 Middle st, Portland, Me. '42

Bed bearers. Inland Ptr 109:42 Je '42

Brown & Bigelow, St Paul, high-speed, multicolor, sheet-fed gravure press which includes printing units for letterpress reproduction. Dun's R 50:32+ Mr '42

Demand for color, bleed, and speed requires new equipment; McCall printing plant. C. C. Westland. il diags Inland Ptr 108:40-4 N '41

Welded steel lighter than aluminum castings. diags Product Eng 13:188-9 Ap '42

See also
Proof presses

Vibration

Spring mountings dampen press vibration. il diag Product Eng 12:643 D '41

PRINTING trade

Ask yourself these pointed year's end questions. F. E. Kunkel. Inland Ptr 108:31-2 D '41

Asks printers to cut use of paper, board, etc. E. W. Palmer. Comm & Fin Chr 156:1189 O 1 '42

Business as usual is one of war's first casualties; printers' conformance to changed conditions. A. J. Peel. Inland Ptr 109:21-2 Ap '42

Cash in on your bad debts in good times, now! A. C. Kiechlin. Inland Ptr 109:38-9 Je '42

Censor yourself. E. W. Fair. Inland Ptr 109:34 Ag '42

Changing trends in printing field shown in results of survey. Inland Ptr 109:21-5 Ag '42

Close coöperation with graphic arts pledged by the O.P.M. G. A. Renard. Inland Ptr 108:29-32 Ja '42

Close relation with customer and engraver aids printer; careful preparation of dummy, layout, and artwork. R. C. Crehore. Inland Ptr 109:29-31 Ap '42

Code of ethics; adopted by the International trade composition association, at 22d annual convention, Toronto, Sept. 27. Inland Ptr 108:32 D '41

Constant combing of field essential to secure new customers. Inland Ptr 109:25-6 Jl '42

Creative printing means creative thinking. C. D. Beckman. Inland Ptr 108:55-6 D '41

Demand for industrial house organs creates printing orders. K. R. Tuttle. il Inland Ptr 109:37-9 S '42

44 years of steady growth and consistent profits! Etheridge printing company, Dallas, Texas. Inland Ptr 109:59 Ag '42

Ideas pirate considers printers gullible victims. il Inland Ptr 108:39-40 F '42

Ingenuity far from a lost art among printers; abstract. R. J. Kirby. Inland Ptr 109:64 My '42

Keeping tab on customers a wartime job of printing. F. McVoy. Inland Ptr 110:36-7 O '42

Price buyers not blind to quality. J. S. Jayse. Inland Ptr 108:70-1 Ja '42

Printing is a war necessity; abstract. A. E. Giegengack. Inland Ptr 109:30-1 S '42

Promotion of graphic arts worked out in detail. Inland Ptr 109:32 Ag '42

Regensteiner career an inspiration to all in graphic arts; pioneered color printing in this country. A. G. Fegert. il Inland Ptr 108:34-8 F '42

Unity in craft groups is seen at U.T.A. meeting. Inland Ptr 108:30-4 N '41

War, to printers, a two-edged sword that cuts both ways. C. N. Tunnell. Inland Ptr 109:47-9 Je '42

Who are the printers that will survive the present war? T. R. Jones. Inland Ptr 110:41 O '42

See also
Graphic arts emergency council

Accounting

Better business management under price ceilings. A. C. Kiechlin. Inland Ptr 110:69-70 O '42

Change in cost system poses serious problem. Inland Ptr 108:17-20 D '41

U.T.A. official outlines advantages of accounting plan. D. Rein. Inland Ptr 108:33-6 Ja '42

PRINTING trade—*Continued*

Advertising

Business building blotters. il Inland Ptr 107:47 S; 108:50 O; 58 N; 44 D '41; 60 Ja; 57 F; 62 Mr; 109:41 Ap; 51 My; 35 Je; 51 Jl '42
Merchandising boosters for the printer and stationer; a success story of Twin City printing company, Champaign, Ill. D. P. Tunnicliff. il Inland Ptr 109:35-6 Ag '42
Ohio printer finds post cards pay. il Inland Ptr 108:36 Ja '42

Directories

Printing trades blue book; metropolitan edition, greater New York and New Jersey. 27th ed 654p $15 A. F. Lewis & co. of New York, New York '42

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:24-5 D '41

Laws and regulations

OPA imposes ceilings on printing industry. Comm & Fin Chr 156:1180 O 1 '42

Rates

Canada pioneers in price control as war measure. Inland Ptr 109:65 My '42
Price regulation for printers. H. R. Wallace. Inland Ptr 110:27-30 O '42

Salesmen

Ben Franklin's shade must shudder at some modern salesmen. C. N. Everett. Inland Ptr 108:51-2 Mr '42
Future is brighter for printing salesman who sticks. F. H. Branham. Inland Ptr 108:27-9 N '41
Prices quoted in pennies bring more dollars! S. K. Hargis. Inland Ptr 108:41-2 Mr '42
Retrieving printing sales that have been lost. C. N. Tunnell. Inland Ptr 110:34-5 O '42
Salesman's corner. F. Rundell. Published in monthly numbers of Inland printer
Salesman's corner; know what grade of printing your shop can do best. F. Rundell. Inland Ptr 108:32 F '42
Salesmen in war time. F. Rundell. Inland Ptr 108:32 Mr '42
Tonic for salesman's blues? F. Rundell. Inland Ptr 108:38 Ja '42

Canada

Report on the printing trades in Canada, 1940. 43p pa 35c Canada. Dominion bur. of statistics, Ottawa '42

Great Britain

British printers give war hints. Inland Ptr 109:64-5 My '42

United States

A-10 rating gives printing industry preferred position. Inland Ptr 108:65-6 Mr '42

Mounting government competition threatens graphic arts. F. H. Branham. Inland Ptr 109:31-4 My '42

Printing industry must regulate self or be regulated by W.P.B. E. W. Palmer. Inland Ptr 110:31-3 O '42

PRINTS. See Engravings

PRIORITIES and allocations, Industrial

AA-1 and AA-2 ratings now identical. Oil Paint & Drug Rep 142:3+ Ag 17 '42

A-10 rating gives printing industry preferred position. Inland Ptr 108:65-6 Mr '42

Allocation: a note on what it is. Dun's R 50:11-12 Mr '42

Allocation and preference orders. Steel 110:432-43 Ja 5 '42

Allocation classification plan established by WPB. Steel 110:36-7+ Je 8 '42

Allocation classification system; data sheet. Heating-Piping 14:481-2 Ag '42

Allocations and priorities guide. rev ed 359p $3; monthly revisions $2 Coordinators corp. 11 S. La Salle st, Chicago '42

Amendment no. 1 to preference order no. M-13 on synthetic rubber. Rubber Age 50:267-8 Ja '42; Same. India Rubber W 105:480+ F '42
Amendment to general preference order No. M-19, to conserve supply and direct distribution of chlorine. Am Water Works Assn J 34:174-8 Ja '42
Amendments to preference rating order P-46. Am Water Works Assn J 34:168-73 Ja '42
A.M.A. cuts in; fight over which manufacturers may get scarce drugs. Business Week p58 Ap 25 '42
Another look at priorities. Banking 34:85 My '42
Architects speak their minds on priorities system and on government attitude toward the profession. Arch Rec 90:10+ D '41
Army-WPB struggle over general allocation of materials still goes on. E. Blair. Barron's 22:4 Ag 17 '42
Auto and tire slash only a sample of what industries which use defense materials face. E. Blair. Barron's 21:4 D 15 '41
Auto industry urges schedules be geared to availability of materials. Steel 111:45 O 19 '42
Balancing munitions output new phase in WPB program; control over production and materials intensified; processing of Production requirements plan; applications to be revamped. Steel 111:18-19 Ag 31 '42
Banks and priorities. H. D. Ralph. Burroughs Clearing House 26:15-17 N '41
Builders ask WPB for housing allocations. Comm & Fin Chr 156:376 Jl 30 '42
Building's part is big; importance to all-out defense. H. J. Payne. Arch Rec 90:41-3 N '41
Bureau of priorities control established by War board. Steel 111:102-3 O 5 '42
Canada provides heavy penalty for violation of U.S. priority rules. Steel 110:60 Mr 2 '42
Canadian manufacturers granted same priority aid as U.S. firms. Steel 110:45 F 16 '42
Certified aid; defense awards to alleviate priorities disemployment. Business Week p28+ D 6 '41
Challenge and the choice. D. M. Nelson. Fortune 25:123-4 Ja '42
Chemical allocations issued for October. Oil Paint & Drug Rep 142:3+ O 26 '42
Cities advised to plan for priorities demands. Comm & Fin Chr 154:1016 N 13 '41
Clearing up some confusing points in use of classification symbols. Steel 111:54 Ag 3 '42
Code numbers to aid material allocations. R. Colburn. Am Mach 86:616c-616d Je 11 '42
Competition under rationing. C. I. Gragg, A. Grimshaw and S. F. Teele. Harvard Business R 20 no 2:141-55 [Ja] '42
Complete official text of allocation classification system. Steel 110:52a-52h Je 22 '42
Conservation and control. Can Chem & Process Ind 26:402-4 Jl '42
Construction and national defense; extracts from addresses at Construction industry conference. Sheet Metal Worker 32:31-2 D '41
Control of critical materials, with questions and answers. D. P. Morgan. Paint Oil & Chem R 104:34+ N 5 '42; Same abr. Oil Paint & Drug Rep 142:47-8, 58 N 2 '42
Controlled materials plan is revealed; effective in 2d quarter. Iron Age 150:141-4 N 5 '42
Conversion lighting; manual of priority procedure. diags Elec W 118:101-16 Jl 11 '42
Copper dilemma, Glenwood range company's shutdown blamed on restriction order. Business Week p26+ N 29 '41
Critical materials all-out allocation program devised. Oil Paint & Drug Rep 140:3+ N 17 '41

Critical materials priorities. J. L. Ritchie. Paper Tr J 114:32-6 Ap 9 '42

Curbs army and navy power over priorities. Comm & Fin Chr 156:814 S 3 '42

Deadlines on principal monthly reports to OPM on metals. Iron Age 148:98-9 N 13 '41

Defense housing priorities; procedure to follow. Sheet Metal Worker 32:42, 44, 46, 48 D '41

PRIORITIES and allocations, industrial—*Cont.*

Defense materials controls, 1941. Oil Paint & Drug Rep 141:36 Ja 12 '42

Direct allocation of critical materials may replace priority system. Concrete 49:10+ D '41

Direct rationing to replace priority system due to shortage of raw materials. E. Blair. Barron's 22:4 Je 8 '42

Don't let priorities force you to use wasteful machinery. H. R. Wallace. Inland Ptr 109:23-6 S '42

Effect of new PRP regulations on priorities system clarified by WPB. Steel 110:34-5+ Ja 22 '42

Effects of the war, priorities and allocations on plumbing, heating industry. W. J. Casey. Dom Eng 159:58+ Ja '42

Extension of ratings simplified by priorities regulation no. 3. Steel 110:35-6 Ja 19 '42

Fight for life; patent medicine producers' struggle for materials. Business Week p56+ Ap 4 '42

Firm penalized for violation of priority. Comm & Fin Chr 154:1039 N 13 '41

First P-46 report forms set up par for future. Elec W 117:87 Ja 10 '42

Get ready for allocations. W. J. Casey. Factory Management 100:72+ Ja '42

Growth of priorities. Survey of Cur Business 22:9-10 F '42

Highway maintenance, P-22, priority rules amended. Roads & Sts 84:66, 68, 70 N '41

Houses without priorities; case for the over-$6000 house. il diags plans map Arch Forum 75:383-92 D '41

Housing priorities. N. Strunk. J Land & Pub Util Econ 17:484-8 N '41

How allocations will work. Business Week p15-16 N 15 '41

How Crane is helping customers untangle the priorities mess. il Sales Management 49:54+ N 15 '41

How priorities serve lime industry. W. A. Nelson. Rock Prod 45:48+ Jl '42

How priority and allocation applications are handled; four flow sheets show steps taken by War production board branches. Iron Age 149:128-128A Mr 5 '42

How railroads fare under the priority rules. D. A. Steel. Ry Age 112:22-5 Ja 3 '42

How to dispose of frozen metal stocks; Schedule A, metals section, relates to special sales made under priorities regulation no. 13. Iron Age 150:108A-108B, 109 Jl 16 '42

Impact of war on advertising. Adv & Sell 35:180a-180d F '42

In and out of PRP. Business Week p19-20 O 10 '42

Industries to manage own priorities. E. Blair. Barron's 21:4 N 17 '41

Industry told of materials controls to come at priorities clinics. Steel 109:59 D 1 '41

Iron Age war priorities guide. 7th ed. Iron Age 150:103-58 O 8 '42 [revisions and additions cont in weekly numbers]

Job is tough, but it can be done. A. J. Browning. Ptr Ink 197:17-19+ D 12 '41

Labor problems from defense priorities. R. R. R. Brooks. Trusts & Estates 73:494-6 N '41

Let's face the facts; municipal services and the war effort. W. L. Sylvester. Water Works & Sewerage 89:212-15 My '42

Many questions raised about OPC production order; with text of preference rating order M-68. H. S. Norman. Oil & Gas J 40:10-11 Ja 1 '42

Material by code; WPB's new allocation classification plan. Business Week p16-17 Je 6 '42

Materials melt as defense goes into high gear. J. Garth. il Am Business 11:34, 36-8 N '41

Materials requests under PRP cut back to match supplies. Steel 111:96 O 5 '42

Materials supplies for civilian use forecast. Oil Paint & Drug Rep 140:3+ N 24 '41

Milwaukee plan; new approach to problem of building materials shortages. Dom Eng 158:45+ D '41

Milwaukee priority plan; proposed method of allocating critical materials for non-defense construction; weight calculations of metals used in house construction. Sheet Metal Worker 33:79-81 Ja; 30-2 F '42

New allocations system. Sheet Metal Worker 33:20-1, 24 Jl '42

New amendments to preference rating order P-22 priority. Roads & Sts 84:52-4+ D '41

New appeal procedure for relief from M and L orders. A. L. Harris. Iron Age 150:113 Ag 20 '42

New housing critical list; specifies all metal items on which priority assistance will be given for war housing in defense areas. Am Bld 64:90+ Ap '42

New iron and steel scrap forms for dealers, producers, consumers. Iron Age 148:99C-99D N 20 '41

New plan for processing PD-25A applications set. Iron Age 150:165-6+ O 1 '42

New WPB allocation system. E. Blair. Barron's 22:4+ N 2 '42

New WPB critical materials control. Ry Age 113:742+ N 7 '42

New WPB regulation affects all food plants. W. B. Spooner, jr. Food Ind 14:39-40 Ag '42

New WPB warrant plan under consideration to insure even flow of materials. E. Blair. Barron's 22:4 Ag 10 '42

No radical changes seen in 1942 allocation program; rubber and rubber products. Rubber Age 50:123 N '41

Now in search of a policy: allocations; after military appetite is more or less sated; how shall what is left over be distributed to industry and the economy? il Fortune 25:100-3+ Je '42

Now living under shortages; with text of OPM order on cellophane. Mod Packaging 15:34-5 D '41

OPC given full authority to control well spacing. H. D. Ralph. Oil & Gas J 40:60 D 25 '41

OPC's materials division formally set up by Davies. Nat Pet N 34:10 Ja 7 '42

OPM announces new form for material needed for defense and essential civilian work. Iron Age 148:96-7 N 27 '41

OPM issues amendments to priorities order P-46; maintenance and operating materials for utilities. Elec W 116:1727-8 N 29 '41

O.P.M. priority rulings. Am Gas J 156:34-5 Ja '42

OPM rule restricts inventories to practical working minimum. Steel 109:21-2 D 29 '41

Official WPB answers to questions on PRP and allocation classification. Iron Age 150:125A-125B Jl 9; 120 Jl 16 '42

Oil equipment supply houses get A-8 priority rating; complete text. Nat Pet N 33:40-1 D 10 '41

Oil operators outside U.S. to get priority aid. Oil Paint & Drug Rep 141:7+ Ja 26 '42

Operation of production requirements plan. For Comm W 6:26-7 Mr 7 '42

Overall control of metals distribution established under PRB. Steel 110:34-5 Je 15 '42

Overall metals priorities scheme set up within PRP. Oil Paint & Drug Rep 141:7 Je 15 '42

P-98 grants oil-production equipment A-8 rating. H. D. Ralph. Oil & Gas J 40:14 Ja 8 '42

Pal for purp; allocation classification plan joins production requirements plan. Business Week p17 My 30 '42

Paper industry must consume less chlorine. Paper Tr J 113:8-10 N 20 '41

Paper industry problems taken to priorities clinic. J. A. Bonwit. Paper Ind 23:753-4, 756+ N '41

Plastics industry and defense; priorities. Mod Plastics 19:34a-34b D '41

Policing priorities. Business Week p18-19 Mr 21 '42

Preference rating procedure applying to highway projects. Roads & Sts 84:74+ N '41

Preference ratings are your job! W. B. Spooner, jr. Food Ind 14:39-46 Ja '42

Preference ratings simplified by WPB. Oil Paint & Drug Rep 141:5+ Je 15 '42

PRIORITIES and allocations, Industrial—*Cont.*

Price ceilings, priorities, allocations; orders of WPB, OPA, and former OPM, having to do with prices, production, distribution, and utilization of chemicals, oils, and drugs. Oil Paint & Drug Rep 141:7+ Mr 9 '42
Priorities aid form PD-25-A revised for April quarter. Oil Paint & Drug Rep 141:3+ Mr 16 '42
Priorities, allocations, prices; indexes and digests of orders, forms and price schedules; personnel and directory of administrative bodies; rev. as of July 1, 1942. Steel 111:1-38 sec 2 Jl 6 '42
Priorities and advertising. Adv & Sell 34: 19-21 D '41
Priorities and allocation. J. H. Martin. Harvard Business R 20 no 4:406-14 [Jl] '42
Priorities and allocations. Chem & Eng N 20:49 Ja 10 '42
Priorities and allocations. G. H. Priest, jr. Paint Oil & Chem R 104:42, 44-6+ N 5 '42; Same abr. Oil Paint & Drug Rep 142: 48-50 N 2 '42
Priorities and allocations; how and when you can use them. Brick & Clay Rec 100: 18-19 Mr; 28-9 Je '42
Priorities and allocations; how and when you can use them. diags Cer Ind 38:62+ My; 74+ Je; 39:60+ Jl '42
Priorities and construction. Survey of Cur Business 21:5-7 N '41
Priorities and defense housing critical list revision. R. R. Dickey. Arch Rec 91:18+ Ap '42
Priorities and how they affect sureties on contract bonds. B. E. Joline. East Underw 42:30-1 N 21 '41
Priorities and industry. 84p Division of information, War production board, Washington, D.C. '42
Priorities and the chemical field. T. N. Sandifer. Chem Ind 49:611-15 N '41
Priorities and the gas industry; with statement by Senator O'Mahoney. Am Gas J 155:7-8 D '41
Priorities and the paper mill superintendents. E. G. Amos. Paper Tr J 114:100-2 Je 25 '42
Priorities and the SPAB order. Arch Forum 75:sup2, 4+ N '41
Priorities and U. & O. losses. F. A. Hughes. il East Underw 42:68 D 12 '41
Priorities: answers to questions about procurement of petroleum equipment (cont). Oil & Gas J 40:22 N 20; 34 N 27; 29 D 4; 31, 98 D 11; 20 D 18 '41; 18 Ja 15 '42
Priorities basic regulation amended. Oil Paint & Drug Rep 140:3+ D 29 '41
Priorities clinic; New York district office of OPM's Priorities field service. il Business Week p19-20 Ja 24 '42
Priorities control bureau organized. Oil Paint & Drug Rep 142:66 O 5 '42
Priorities control tightening planned; realignment of operations and interrelations of the WPB and the Army and navy munitions board. Oil Paint & Drug Rep 142:3+ Ag 3 '42
Priorities eased. Business Week p16-17 Ja 24 '42
Priorities; facts regarding the procedures open to utilities and their suppliers for obtaining aid in getting materials. Elec W 117:63-70 Ja 10 '42
Priorities for safety. A. O. Boniface. Safety Eng 83:6-8 F '42
Priorities for water works and how to get them. Pub Works 72:38-9 D '41
Priorities; forms upon which operators may apply for exceptions to spacing order M-68. Oil & Gas J 40:16 Ja 8 '42
Priorities in chemicals. L. Brown. News Ed 19:1248-9 N 25 '41
Priorities in transition for '42. Business Week p15-16 Ja 3 '42
Priorities order P-56 for mining is consolidated and simplified. Eng & Min J 142:97-9 D '41
Priorities orders issued for oil industry; with text. Nat Pet N 34:5, 8-9, 12 Ja 14 '42
Priorities problems; case method. Elec W 118:760-1 S 5 '42 [cont weekly]
Priorities problems; power generating, distribution and utilization equipment. Elec W 118:760-1 S 5 '42
Priorities procedure explained at protective coatings clinic. Oil Paint & Drug Rep 140: 3+ D 8 '41
Priorities, rationing, and the utilities. H. Corey. Pub Util 29:3-13 Ja 1 '42
Priorities red tape causes waste in our war effort. Mach 48:152 My '42
Priorities regulation no. 3, to provide for the use of revised preference rating certificates and prescribe the manner of application of ratings assigned thereby. Am Water Works Assn J 34:328-34 F '42
Priorities regulation no. 10; chart explanation. E. G. Amos. Paper Tr J 115:9, 12-13 Ag 6 '42
Priorities scheme revised for 1942 first-quarter needs; Production requirements plan materials list no. 1. Oil Paint & Drug Rep 140:3+ D 8 '41
Priorities system. Aero Digest 41:105+ Jl '42
Priorities undergo important changes; Chem. & Met. interpretation. W. B. Spooner, jr. Chem & Met Eng 49:84-5 Jl '42
Priorities warn of fire losses. F. W. Young. il Credit & Fin Management 44:8-9 Ja '42
Priorities: what to do about them. Textile World 91:62-4 D '41
Priorities without red tape. Business Week p15-16 N 29 '41
Priority aid for new locomotive, freight car materials assigned. Steel 110:35 Ja 12 '42
Priority board on building. H. D. Ralph. Burroughs Clearing House 26:17-18 N '41
Priority changes announced after July 1. Paper Tr J 114:60, 62 Je 25 '42
Priority discipline. Business Week p19-20 Ap 25 '42
Priority problems of companies grow with new demand of war. East Underw 43:1+ Ja 9 '42
Priority ratings established for highway construction. Roads & Sts 84:64 N '41
Priority system as applied to war and civilian requirements; procuring goods from Canadian, British and U.S. sources. R. C. Berkinshaw. Water & Sewage 80:26-8 F '42
Procedure for non-defense work. Sheet Metal Worker 32:39+ D '41
Production requirements. Oil Paint & Drug Rep 142:41+ N 2 '42
Production requirements; method for granting priority assistance to manufacturers. Dom Eng 159:61+ Ja '42
Production requirements plan. F. J. Stock. Oil Paint & Drug Rep 141:60 Je 15 '42
PRP displacement by direct allocation seen. Oil Paint & Drug Rep 142:3+ O 5 '42
PRP embodied in new regulation. Iron Age 149:94-6 Je 18 '42
Production requirements plan offers blanket ratings to more manufacturers. Steel 109: 29-30 D 1 '41
PRP preference rating extension methods uniform. Oil Paint & Drug Rep 142:3+ O 12 '42
PRP priorities regulation clarified by amendment. Oil Paint & Drug Rep 141:7+ Je 29 '42
Production requirements plan; recent changes in priorities system, with particular attention to statistical and accounting data required by form PD-25A. G. N. Farrand. J Account 73:530-6 Je '42
PRP sharply alters priorities system. Iron Age 149:108-9 Je 25 '42
PRP tightens raw materials control for fourth quarter. Oil Paint & Drug Rep 142:3+ Ag 31 '42
PRP to continue for some months. Iron Age 150:101-2 O 8 '42
PRP, what it is; how it works. D. Novick. il Dun's R 50:9-12 Je '42
Production requirements plan, what it is, how to come in under it. Bus Transportation 21:288-9 Je '42
PRP's new rôle. Business Week p45 Je 20 '42
Prospective effects of priorities on industrial gas sales. W. D. Gay. il Gas Age 88:11-13+ D 4 '41
Protection under priorities. H. C. Mesch. Nat Safety N 46:19, 74+ Ag '42

PRIORITIES and allocations, Industrial—*Cont.*

Protective coatings. E. H. Bucy. Oil Paint & Drug Rep 142:50-1 N 2 '42

Purp grows up; production requirements plan approaches real allocation system. Business Week p18-19 Mr 14 '42

Rating order P-22 amended by OPM. Bus Transportation 20:563 N '41

Redealing tools; stamp plan for allocation of output. Business Week p16-17 Ap 18 '42

Sales problems in the emergency. W. E. Landmesser. Refrig Eng 43:12-14 Ja '42

Scheduled output; material pinch puts new emphasis on flow rather than on priorities. Business Week p19-20+ Ag 22 '42

Scheduling shipments under priority regulations; Caterpillar tractor co., Peoria, Ill. W. H. Franklin. N A C A Bul 23:1041-9 Ap 1 '42

Shifting priority policies and the utilities. Pub Util 28:765-9 D 4 '41

Specific instructions to allocation classification. Iron Age 149:116+ Je 4; 112-15 Je 11; 119-20 Je 18 '42

Steel plates placed under complete allocation system, effective Dec. 1. Steel 109:41 D 8 '41

Summary of war regulations up to Jan. 2, 1942; priorities, allocations, import and price controls. Chem Ind 50:283-98 pt 2 F '42 [cont monthly]

Supplementary order no. M-15-B to restrict the use of rubber. India Rubber W 105: 376-8 Ja '42; Same. Rubber Age 50:265-7 Ja '42

Suppliers of materials and equipment to the petroleum industry assigned A-8 preference rating by OPM. Pet Eng 13:121-2 D '41

Supplies of plumbing, heating, and electrical equipment for maintenance and repair. K. K. Hoyt and R. R. Dickey. Arch Rec 91:18+ F '42

SPAB lays down outlines for allocations. R. Colborn. Am Mach 85:1236c-1236d N 26 '41

Symbols of products manufactured under PRP; alphabetical list of products and industries. Iron Age 149:116-19 Je 25 '42

Textile war manual; how price ceilings, priorities, and allocations affect textiles. Textile World 92:74-81 F; 63+ Mr; 67-8+ Ap; 64, 144 My; 63-4 Je; 67-8 Jl; 55-6 Ag; 85-6 S; 66+ O '42

Those important "P" orders. Business Week p16 N 15 '41

Total war and the little man; Ray Elliott, a builder of White River Junction, Vermont; what's to become of him if he can't get materials? il Fortune 25:78-80, 82, 84 Ja '42

12.10; new scheme of allocation classification symbols as applied to water works and sewage requirements in Canada. Water & Sewage 80:18-19+ Jl '42

Use of allocation classifications and purchasers' symbols. Gas Age 90:19-20+ Jl 30 '42

WPB claims steel companies violate priority provisions. Iron Age 149:79+ Ap 23 '42

WPB clarifies rerating provisions of P.R. no. 12. Iron Age 150:110-11 S 10 '42

WPB forms rules governing special sales of idle materials. Oil Paint & Drug Rep 142: 3+ O 5 '42

WPB installs contract code system as check on final use of raw materials. Eng N 128:895 Je 4 '42

WPB inventory data unit made permanent. Oil Paint & Drug Rep 141:7+ Mr 16 '42

WPB, military board align priority power. Comm & Fin Chr 156:463 Ag 6 '42

WPB moves toward allocation. B. Stubblefield. Textile World 92:63-4 Jl '42

WPB names group to supervise PRP. Oil Paint & Drug Rep 142:3+ Jl 13 '42

War production board regulations relating to the purchase of scientific and laboratory equipment and supplies. R Sci Instr 13:325-32 Ag '42

WPB speeds goods to Canada by razing barrier. Oil Paint & Drug Rep 142:7 Jl 27 '42

WPB to plot allocations on end uses; priorities regulation No. 10 requires all purchase orders to tell product in which material is to be used; M orders to be superseded. Oil Paint & Drug Rep 141:7+ Je 8 '42

WPB's P, L, M, S. R. A. Foulke. il Banking 35:19-21, 69 Ag '42

Wartime accounting. G. N. Farrand. J Account 73:427-8 My '42

Wartime purchasing procedures. L. M. Cherne, ed. 632p $4 Research inst. of Am, New York '42

Washington talks it over; production requirements plan. Oil Paint & Drug Rep 140:5+ D 1 '41

Where to go for assistance on priorities and subcontracts. Business Week p34-5 Je 27 '42

Who needs gold? priority order favors production of base metals. Business Week p24 Mr 14 '42

Widely confused PRP plan is explained in simple language. Iron Age 150:74, 76 Ag 6 '42

See also
Tires, Automobile—Rationing
also United States—War production board—Controlled materials plan

Accounting

Accounting aspects of the priorities system. G. N. Farrand. J Account 74:297-305 O '42

Accounting problems under priority regulations of production and sales. I. W. Keller. N A C A Bul 23:425-34 D 1 '41

Material and supply accounting in 1942. R. J. Daniels. Gas Age 89:24-6 Ja 1 '42

Canada

Canada installs allocation system paralleling that used in U.S. Eng N 129:323 S 3 '42

Canadian division of W.P.B. to handle priorities problems. Roads & Bridges 80: 54 O '42

New scheme of allocation classification symbols as applied to road, bridge and airport requirements. il Roads & Bridges 80:32-3, 70, 72+ Ag '42

Organization chart, Department of munitions and supply, Priorities branch. Water & Sewage 80:28 F '42

Priorities order PO-2 amended for Canadian P.R.P. units. Roads & Bridges 80:62+ S '42

Priority system as applied to war and civilian requirements; procuring goods from Canadian, British and U.S. sources. R. C. Berkinshaw. il Roads & Bridges 80:32-3, 108-9 F '42

PRISMS

Torsion of a prism with cross section the inverse of an ellipse. T. J. Higgins. J Ap Phys 13:457-9 Jl '42

PRISON industries

Federal-prison labor and defense. Monthly Labor R 54:704-5 Mr '42

Prisons enlist; California shows the way; unions help launch training courses. Business Week p62+ Je 6 '42

PRISON labor. See Convict labor

PRISONERS of war

Prisoners of war; a study in the development of international law. W. E. S. Flory. 179p bibliog(p163-77) $3.25 Am. council on public affairs, Washington, D.C. '42

PRISONS

Federal-prison labor and defense. Monthly Labor R 54:704-5 Mr '42

Designs and plans

Criminal courts building and city prison, New York city. il plans Arch Forum 76: 253-60 Ap '42

PRIVATE brands

Chains besieged; in war on private brands. Business Week p54-5 N 15 '41

Pal blades break 750 markets with sampling and advertising; turns from private brands to advertised name. il Sales Management 51:50-1 S 15 '42

PRIVATE brands—*Continued*

Picture ahead for branded foods. G. Gore. Adv & Sell 35:16+ My '42; Same cond. Management R 31:210-12 Je '42

Retail customers shun cheaper, unknown brands during wartime! M. F. Allison. Sales Management 51:34+ N 1 '42

Super-market man sees growing peril for national brands. L. A. Johnson. Ptr Ink 197:15-17 D 5 '41

See also

Advertising, National
Marketing
Sales policies
Trade marks
Trade names

PRIVATE printing plants. See Printing offices, Private

PRIVATE property. See Property

PRIVATE wire systems. See Telephone—Private wire systems

PRIVIES

Analysis of sanitary facilities in the United States. J. M. DallaValle and R. H. Britten. Pub Health Rep 57:1604-13 O 23 '42

PRIZE contests

Prize contests for gas companies. Z. Kaufman. Gas Age 88:63-4 O 23; 24-5 D 18 '41; 89:26 F 12; 28-9 Mr 12 '42

Sales contest technique to speed service to user; Westinghouse service opportunity contest. E. J. Hegarty. Ptr Ink 200:26+ Jl 31 '42

See also

Advertising—Prize contests
Printing—Prize contests
Sales contests
Show windows—Contests

PRIZE law

New U.S. law on captured war prizes; exclusive jurisdiction for New York and San Francisco. Weekly Underw 147:30 Jl 4 '42

United States regulates maritime prizes. Weekly Underw 147:503 S 5 '42

PRIZES. See Rewards, prizes, etc.

PROBABILITIES

Probabilities in logarithmic skewed distributions. G. R. Davies and R. H. Smith. Am Statis Assn J 36:493-9 D '41

Sampling and probability. R. H. Parsons. Engineer 173:528-9 Je 26 '42

Theory of probability applied to accidents. D. C. Stewart. Edison Elec Inst Bul 10:257-60 Jl '42

See also

Business forecasting
Errors, Theory of
Frequency distribution (statistics)
Least squares
Probability paper
Risk
Sampling (statistical methods)

PROBABILITY paper

Probability graph paper and its engineering applications. H. Rissik. Engineer 172:276-8, 296-8 O 24-31 '41; Discussion. U. R. Evans. 173:143 F 13 '42

PROBATE law

Cases and materials on the law of fiduciary administration. L. M. Simes. 533p $5.50 Callaghan '41

C.P.L.—the certified probate lawyer. Trusts & Estates 72:582-3 Je '41; Reply. N. W. Baker. 74:274 Mr '42

Fiduciary decisions, 1941-1942. R. D. Niles. Trusts & Estates 75:311-16 S '42

Fiduciary legislation, 1941-1942. R. H. Spotts. Trusts & Estates 75:297-9 S '42

Guardian ad litem racket and suggested remedy. G. Newhall; B. B. Gilman. Trusts & Estates 75:187-9 Ag '42

Iowa probate law; practice and forms. D. G. McCarty. 2v $25 Callaghan '42

Probate court is now in session! demonstration of estate problems. J. F. O'Connell and others. Ins Field (Life ed) 71:14-16+ My 22 '42; Abstract. Nat Underw (Life ed) 46:27 Mr 13 '42

Probate denied! home-made wills. Trusts & Estates 74:53-4 Ja '42

Probate forms in Maryland, annotated. P. L. Sykes. 781p $15 Washington law book co, 810 13th st, NW, Washington, D.C. '41

Soldiers' and sailors' wills. T. E. Atkinson. Trusts & Estates 75:284-8 S '42

Treatise on practice and procedure in the probate courts of Ohio. G. S. Addams and G. C. Hosford. 3d ed 1879p, 255p $20 W. H. Anderson co, Cincinnati '41

See also

Estates (law)
Executors and administrators
Inheritance tax
Wills

Bibliography

Trust and probate literature, 1941-1942. P. P. Lacovara. Trusts & Estates 75:300-10 S '42

PROBATION system

One hundred years of probation, 1841-1941; part 1, Probation in the United States, England, and the British Commonwealth of nations. N. S. Timasheff. 88p pa $1.50 Fordham univ. press, New York '41

Probation and parole progress; yearbook, National probation association, 1941. M. Bell, ed. 470p $1.75; pa $1.25 National probation assn., New York '41

PROCAROTENE

Pro-γ-carotene. L. Zechmeister and W. A. Schroeder. bibliog il Am Chem Soc J 64:1173-7 My '42

PROCAROTENOIDS. See Carotenoids

PROCTER and Gamble company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:599 S 19 '42

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 Ja 26 '42

Procter & Gamble indicted for fraud. Oil Paint & Drug Rep 141:3+ Je 15 '42

Suds make news; latest legal clash of Lever and P. & G. Business Week p62-3 Je 20 '42

U. S. charges illegal use of mails. Comm & Fin Chr 155:2285 Je 15 '42

PRODUCE trade

See also

Dairy products
Farm produce
Food industry and trade
Fruit trade
Grain trade
Vegetables

also individual products, e.g. Butter; Eggs

PRODUCER gas. See Gas, Producer

PRODUCERS council

Report no. 2 on post-war planning: the Producers Council program. R. G. Creviston. Sales Management 51:28, 30 O 1 '42

PRODUCTION

Are war production drives worth while? Factory survey. il Factory Management 100:74-80 O '42

At the margin; production per man is what counts. Fortune 25:78-9, 145-6+ My '42

Britain organizes its production regionally. K. O. Horton. For Comm W 9:10-12+ O 17 '42

Civilian production in 1943. Barron's 22:11 O 26 '42

Course of American production. P. Maslow. 87p bibliog(p87a-87b) pa $1.50 Paul Maslow, 1232 Ocean av, Brooklyn, N.Y. '41

Greater effort in war production urged. D. M. Nelson. Marine Eng 47:138-40 Ap '42; Excerpt. Comm & Fin Chr 155:1352 Ap 2 '42

High speed war production brings strong industrial copy theme. il Ptr Ink 198:21-2+ Ja 16 '42

Increasing productivity and technological improvements in defense industries. L. A. Epstein and I. H. Siegel. bibliog Monthly Labor R 54:34-48 Ja '42

Industry's tools for greater production; 50 case studies on how to use them. il Factory Management 100:65-152+ Ag '42

New bottlenecks for old. Business Week p15-16 F 7 '42

Production achievement. Nat City Bank p38-9 Ap '42

Report no. 2 on post-war planning: the Producers Council program. R. G. Creviston. Sales Management 51:28, 30 O 1 '42

Shortages and production. J. D. C. Weldon. il Mag of Wall St 69:417-19, 462 Ja 24 '42

PRODUCTION—*Continued*

War expenditures and national production. M. Gilbert. Survey of Cur Business 22:9-16 Mr '42

Warns of impending attacks but declares industrial production must be maintained. J. M. Landis. Comm & Fin Chr 155:1260 Mr 26 '42

Where tax policy fails; limits of fiscal policy for maximum war production. K. H. Niebyl. Trusts & Estates 74:235-8 Mr '42

Winning on production front. Business Week p82-4 O 3 '42

See also

Economics

Efficiency, Industrial

Factory management

Industrial mobilization

Labor productivity

Labor requirements (for production)

Machinery in industry

Manufactures

Orders, Unfilled

Costs

Relation between size and efficiency of business. J. M. Blair. bibliog R Econ Statis 24:125-35 Ag '42

Statistics

America turns pro; the raw materials of shells, bombs and explosives. H. F. Lee. Barron's 22:3-4 F 9 '42

Business indexes; industrial production; construction contracts, employment, etc; index totals, 1919-1941, monthly Aug. 1938-Dec. 1941. Fed Res Bul 28:53 Ja '42 [cont monthly]

Finished commodities since 1879; output and its composition. W. H. Shaw. 49p 25c Nat. bur. econ. research '41

Gross flow of finished commodities and new construction, 1929-41. W. H. Shaw. Survey of Cur Business 22:13-20 Ap '42

Industrial production, by industries (adjusted and unadjusted indexes), Oct. 1940-Nov. 1941. Fed Res Bul 28:54-7 Ja '42 [cont monthly]

Industrial production index under war conditions. Fed Res Bul 28:642-4 Jl '42

Industrial production, 1941. Survey of Cur Business 22:18-27 F '42

New industrial patterns. W. Gates. il Mag of Wall St 70:115-17+ My 16 '42

Output of consumers' durable goods 50 per cent below 1941. Dun's R 50:22 Mr '42

Preliminary estimates of gross national product, 1929-41. M. Gilbert and R. B. Bangs. Survey of Cur Business 22:9-13 My '42

Progress of our war production; Federal reserve board sub-indexes of industrial production, 1935-1941; charts. Mag of Wall St 69:441 Ja 24 '42

Relation between seasonal amplitudes and the level of production; an application to the production of steel ingots. G. S. Juliber. Am Statis Assn J 36:485-92 D '41

Toward a full war footing; chart showing increasing proportion of factory production going to satisfy military and export needs, Jan. 1939-Nov. 1941. Barron's 22:1 Ja 5 '42

U.S. outproduced Axis powers in 1941. W. P. Witherow. Comm & Fin Chr 155:17, 22-4 Ja 1 '42

PRODUCTION, Limitation of

Limiting the input; scarce material used now becomes determining factor. Business Week p16-17 N 15 '41

M.L. orders appeals policy made uniform. Oil Paint & Drug Rep 141:5+ Je 8 '42

WPB bars swapping of production quotas. Oil Paint & Drug Rep 141:3+ F 23 '42

PRODUCTION and sales, Coordination of

Luxury goods, too, must be closely controlled; production planning, Helena Rubinstein, inc. H. F. Waterhouse. il Factory Management 99:73-6+ D '41

Streamlining production and inventory control methods. J. A. Willard. Advanced Management 7:127-9 Jl-S '42

PRODUCTION control

Boeing's production density system. il Automotive & Aviation Ind 87:16-19+ O 15 '42

Breaking bottlenecks in production; Star electric motor co., Bloomfield, N.J. F. Eberhard. il Factory Management 100:89-90+ Ag '42

Controlling the flow of production materials, Boeing airplane company, Wichita division. W. B. Ash. il Factory Management 100:119-21+ Ag '42

Coupons for cost and production control. E. P. Dolliver. Factory Management 100:100+ Jl '42

Efficiency is production watchword in private plant; methods used by United drug company's Boston plant. C. A. Merrill. il Inland Ptr 108:37-40 Mr '42

Efficient machine loading; Bell Aircraft engineers coordinated system of time studies and use of machine loading control board. M. Stupar. diag Aviation 41:94+ Je '42

Engineering release for mass production; punched card system; Curtiss-Wright corporation. L. N. Pizzuto. il Aviation 41:108-12 Jl '42

Executive production control in chemical plants; Agfa Ansco division, General aniline & film corporation. W. von Pechmann. il Chem Ind 51:549-53 O '42

Expediting deliveries through production control. M. G. Demougeot. Advanced Management 7:23-4 Ja-Mr '42

Flow production of aircraft manifolds. E. A. Moore. il plan Am Mach 86:959-69 S 3 '42

How we doubled production; developing a production control system; Monarch machine tool company. P. A. Abe. il Factory Management 100:85-8+ My '42

Load charts show up production bottlenecks, Manitowoc ship building company. A. N Dedricks. Factory Management 100:74-6+ Jl '42

Luxury goods, too, must be closely controlled; production planning, Helena Rubinstein, inc. H. F. Waterhouse. il Factory Management 99:73-6+ D '41

Planning production details; Square D company, Milwaukee. W. S. Olin. Factory Management 100:123-4+ Ag '42

Plant production control. C. A. Koepke. 509p $4 Wiley '41

Production control. L. L. Bethel and others. 276p $2.75 McGraw-Hill '42

Production control in a foundry. G. J. Armstrong. N A C A Bul 23:1289-1311 Je 1 '42

Progress in controlling production. J. A. Willard. Advanced Management 7:25-6 Ja-Mr '42

Scheduling operations for uniform output; Thompson aircraft products co., Cleveland. J. G. Moore. Factory Management 100:117-19+ Ag '42

Simplified production order system speeds work; Cleveland graphite bronze co. M. E. Richards. il Am Business 12:32-4+ Ja '42

Simplifying paperwork in production control; Steel co. of Canada, ltd., Hamilton, Ont. R. W. Hallam. il diags Factory Management 100:121-2+ Ag '42

Stock and production control at Douglas Aircraft. flow chart il Aero Digest 41:108, 111-12, 114 Jl '42

Streamlining production and inventory control methods. J. A. Willard. Advanced Management 7:127-9 Jl-S '42

This production control system has an attractive simplicity. H. Wood. Inland Ptr 109:27-9 S '42

See also

Factory management

Machine shop management

Schedules

PRODUCTION credit associations

Government competition; a discussion in print. Banking 35:138, 140-4 S '42

PRODUCTS, Certification of

Changes in Crown tested plan; new minimum requirements are established for rayon fabrics. il Rayon 23:500-2 S '42

Control of quality. F. E. Butcher. Elec R (Lond) 130:182-3 F 6 '42

Flameproof enclosure of electrical apparatus. H. Rainford. Engineer 172:312-13 N 7 '41

PRODUCTS, Certification of—*Continued*

How public relations minded association staged comeback; American lighting equipment association. J. Markel. il Ptr Ink 197:17-20 D 19 '41

Nutrition entente; food manufacturers and FSA set up merchandising campaign. Business Week p62 F 14 '42

WLW's seal plan; radio station's guarantee. Business Week p58+ N 15 '41

PRODUCTS, Identification of

Identified hamburger. il Ptr Ink 197:67-8 N 21 '41

See also

Labels

PRODUCTS, Improved

How public relations minded association staged comeback; American lighting equipment association. J. Markel. il Ptr Ink 197:17-20 D 19 '41

Lightolier teaches dealers to link lamps with accessories; new designs of non-priority materials, women in the factory, steady national advertising. il Sales Management 51:42+ Ag 15 '42

Priorities bring successor products better than old ones; Sears, Roebuck display. il Ptr Ink 199:41-2 Ap 24 '42

Product development, the ugly duckling of business. E. H. Schell. il Dun's R 50:7-12+ F '42

Revamped sales policies, radio advertising, hike sales for Eversharp. M. L. Straus. il Sales Management 51:25-6 Jl 15 '42

Sunrise on D-day; how business men are planning to provide employment when war ends. B. H. White. Barron's 22:3-4 Je 29 '42

See also

Design

PRODUCTS, Molded. See Molded products

PRODUCTS, New

A R P; American inventiveness is turning out materials and devices for building protection. il Arch Forum 76:sup2, 4+ Mr '42

Cheerioats makes national bid to oatmeal eaters. Ptr Ink 198:42 F 20 '42

How editors want new product publicity items prepared. A. N. Gregg. Ind Marketing 27:30-1+ Mr '42

Managing new product development in chemical industry. J. C. Collins. Chem & Met Eng 49:87-9 Ag; 144-6 S '42

New packages and products. Published in monthly numbers of Food industries

New products. Published in weekly numbers of Business week

OPA establishes rule on new products; goods for the United States armed forces and governments of friendly nations. Oil Paint & Drug Rep 142:5+ O 12 '42

Plastics in review. il Published in monthly numbers of Modern plastics

Product development, the ugly duckling of business. E. H. Schell. il Dun's R 50:7-12+ F '42

Quick work; Clopay blackout window shades. Ptr Ink 197:56+ D 19 '41

Shadow of things to come. A. B. Wells. il Mag of Wall St 70:219-21+ Je 13 '42

Story book stuff; how your vitamin pills get that way; Gelatin products company. il Sales Management 51:52-3 O 20 '42

Time to start retailers on national brands is now; room for one more advertised trade-marked line in every field. S. C. Singer. il Ptr Ink 200:21, 42 Jl 24 '42

Today's substitutes foreshadow tomorrow's staples. il Sales Management 50:16-17 Ap 1 '42

War chemicals foreshadow peacetime role. S. B. Self. Barron's 22:36-7 Ja 12 '42

See also

Products, Improved

also names of new products, e.g.

Pliofilm

Advertising

Avoiding the curious in launching a new product; how Westinghouse introduced Prestite. J. M. McKibbin. il Ind Marketing 27:25-6 Mr '42

Van Camp's open 105 markets for Tenderoni in less than 90 days. il Sales Management 51:24 Ag 1 '42

Prices

O.P.A. regulations applying to new products. F. E. Seidman. J Account 74:315-18 O '42

Prices during war; regulations affecting the cosmetic industry. R. W. Burns. Oil Paint & Drug Rep 141:64-5 Je 22 '42

PRODUCTS, Secondary

See also

Quality of products

PRODUCTS, Small

Merchandise on cards; packaging and display advertising. il Mod Packaging 15:62 Ja '42

PRODUCTS, Used

See also Automobile industry and trade—Used cars; Machine tool industry—Used machines

PROFESSIONAL advertising

Professional ethics and solicitation. E. B. Wilcox. J Account 74:166-8 Ag '42

PROFESSIONAL education

See also

Engineering education

Library schools and training

Medical education

PROFESSIONAL engineers, National society of. See National society of professional engineers

PROFESSIONAL ethics

See also

Accounting ethics

Engineering ethics

Nursing ethics

PROFESSIONAL insurance corporation, Jacksonville, Florida

C. Ervin and Doris Waller are leaders in Professional Corp. East Underw 43:32 Jl 24 '42

PROFESSIONAL workers

Future supply of professionally trained manpower. C. S. Marsh. Monthly Labor R 55:247-50 Ag '42

National labor board decision upholds professional status of chemists. Chem & Eng N 20:165-9 F 10 '42

Need for college-trained professional personnel. Monthly Labor R 55:60-3 Jl '42

Professional manpower in Germany. Economist 142:827 Je 13 '42

Professional status of chemists upheld by the National labor relations board. Science 95:268-9 Mr 13 '42

See also

Accountants

Architects

Engineers

Intellectual workers

Librarians, Special

also United office and professional workers union

PROFESSIONS

See also

Accountants

Advertising as a profession

Architects

Engineers

Lawyers

Nurses and nursing

Physicians

Trust service

PROFILING machines

Combines control systems; patent for attachment to milling machine will enable it to carry out copying operations. diags Machine Design 14:118+ Ja '42

Machining non-ferrous alloys. il diags Engineer 173:412-14 My 15 '42

PROFILOMETER

Electronic profilometer. il diag Electronics 15:94, 96-7 Ag '42

PROFIT

Budget gives profit picture in half a minute; Stanley manufacturing company, Dayton. R. J. Rahn. Factory Management 100:97-9 O '42

Business and the war; the trend in trade and industry. W. Hayes. Dun's R 50:5-10+ O '42

PROFIT—*Continued*

Challenge of 1942 taxes to corporate profits. W. Gates. Mag of Wall St 69:358-60+ Ja 10 '42

Corporate earnings and dividends, 1941. Fed Res Bul 28:291-8 Ap '42; Excerpts. Comm & Fin Chr 155:1632 Ap 23 '42

Corporate profits and national income estimates, quarterly, 1938-42. T. Smith and C. Merwin. Survey of Cur Business 22:13-18 Je '42

Corporate profits show 3rd quarter advance. Comm & Fin Chr 154:1563 D 18 '41

Difficulties of measuring profits in a wartime economy. W. A. Staub. il Dun's R 50:5-10+ Jl '42

Earnings and incentive. Economist 141:507-8 O 25 '41

Earnings of leading companies in 1941, and comparisons with 1940. Nat City Bank p43-7 Ap '42

Earnings of manufacturing companies in 1941 and comparisons with 1940. Nat City Bank p29-32 Mr '42

First half profits down 31.5%. Barron's 22:1 Ag 17 '42

First quarter corporate earnings down despite gains before federal taxes. Comm & Fin Chr 155:2214 Je 11 '42

First quarter earnings round-up; clues to 1942 profits and dividends. J. C. Clifford. Mag of Wall St 70:112-14+, 170-1+ My 16-30 '42

First quarter earnings; with comparisons for 1941. Nat City Bank p53-5 My '42

First quarter profits down. Barron's 22:1 My 11 '42

General Motors' profit outlook. S. H. Brams. il Barron's 22:3 F 16 '42

Half year's earnings; net income of leading corporations; with comparisons for 1941. Nat City Bank p90-2 Ag '42; Excerpt (table). Trusts & Estates 75:175 Ag '42

How industrial profits compare with 1940; composite figures often misleading. R. S. Conway. Barron's 21:20 D 15 '41

Industrial profits in 1941; with comparisons, 1931-1940. Economist 142:sup6-7 Mr 14 '42

Industrial profits up slightly for year. Barron's 22:1 Mr 2 '42

Interrelation of taxes, costs, profits. W. J. Casey. N A C A Bul 23:1465-79 Jl 15 '42

Leaders and laggards in corporate earning power; with table giving variations in profits per share, 1940 and 1941. J. C. Clifford. Mag of Wall St 69:129-31+ N 15 '41

Net profits held down by taxation in 1941. Comm & Fin Chr 155:2401 Je 25 '42

New statistics on quarterly earnings and dividends of large corporations; tables giving annual figures, 1929-1938 and quarterly, 1939-1941. Fed Res Bul 28:214-17, 248 Mr '42 [cont monthly]

Nine months' industrial profits down 30%. Barron's 22:1 N 9 '42

1941 corporation net profits 17% above 1940; with table giving figures by industrial groups. Comm & Fin Chr 155:1425+ Ap 9 '42

Open season for middlemen; developments in the field of commodities. Barron's 22:6 N 2 '42

Profit margins down in industries engaged in armament production in 1941, Conference board finds. Comm & Fin Chr 156:1722 N 12 '42

Profit margins; storm in the grocery and provision trades. Economist 142:711 My 23 '42

Profit motive. E. J. P. Benn. 31p pa 20c Universal distributors co, 38 Union square, New York '41

Profit motive and maximum profits. E. G. Nourse. 30p pa 25c Brookings institution, 722 Jackson pl, Washington, D.C. '42

Profits, a new series. Economist 142:720-1, 798-9 My 23, Je 6 '42

Profits and dividends of industrial corporations; new series, quarterly, 1929-1941. Survey of Cur Business 22:21 Ap '42

Profits in a vise; renegotiation puts limit on net before taxes but excess profit levy isn't eased. Business Week p14 Ag 15 '42

Profits of large industrial corporations, January-September, 1940 and 1941. Fed Res Bul 27:1216 D '41

Profits, prejudice and production; tables giving Economist profits index quarterly, 1938-1941, profits by industrial groups, 1940 and 1941, and distribution of profits and return on capital, quarterly, 1940 and 1941. Economist 142:110-11 Ja 24 '42

Spirit of business in wartime; why making a profit is essential part of merchandiser's contribution to victory. R. S. Butler. Ptr Ink 201:11-12, 64, 66 O 23 '42

Stabilised profits. Economist 143:365-6 S 19 '42

Suppose profits are limited to 6 per cent; effects on individual companies. B. M. Fullerton. Mag of Wall St 69:585-7+ Mr 7 '42

Taxes cut deeper into profits. Business Week p98 N 7 '42

Taxes cut net. Business Week p60-1 Ag 1 '42

Third quarter earnings; net income of leading corporations for the first nine months, 1942, with comparisons for 1941. Nat City Bank p125-6 N '42

War damage and profits. Economist 141:725 D 13 '41

What 1941 reports disclose for 1942. W. Gates. Mag of Wall St 69:481-3+, 537-9+, 593-5+ F 7-Mr 7 '42

Why corporate profits will be better than you think. J. C. Clifford. Mag of Wall St 70:375-7+ Jl 25 '42

See also

Capitalism
Corporations—Finance
Excess profits tax
Income
Interest
Investments
Price policies
War profits

PROFIT sharing

Last pie-cutting Westinghouse Electric plan discontinued. Business Week p90-1 Ag 15 '42

Peoples-Pittsburgh announces profit-sharing plan. Bankers M 144:256-7 Mr '42

Profit-sharing in Venezuela. F. P. Corrigan. Monthly Labor R 54:1021 Ap '42

Tax problems of pension and profit-sharing plans; abstract. G. F. Brewer. Management R 31:213-14 Je '42

To keep free enterprise free. Business Week p99 Je 13 '42

See also

Bonus system
Cooperation
Insurance—Participating policies

PROFITEERING

Acme and Rona firms penalized by WPB. Oil Paint & Drug Rep 141:56 Ap 27 '42

British black market. Trusts & Estates 74:234 Mr '42

New penalties for black market offences. Economist 142:352-3 Mr 14 '42

Tax on war profiteering; increases in incomes. Trusts & Estates 75:205-6 S '42

PROFITGRAPHS

Cotton gin profit charts. W. E. Paulson. map N A C A Bul 23:1093-1112 Ap 15 '42

PROGESTERONE

Sterols; some 16-alkyl-pregnenolones and progesterones. R. E. Marker and H. M. Crooks, jr. Am Chem Soc J 64:1280-1 Je '42

PROGRESS

Education and industry. J. D. Cunningham. Mech Eng 64:654-6 S '42

Molders of a better destiny. C. M. A. Stine. Science 96:305-11 O 2 '42; Same. Chem & Eng N 20:1085-9 S 10 '42; Abstracts. Chem Ind 51:525-6 O '42; Nat City Bank p 117-19 O '42; Inv Banking 12:27-30 O '42; Trusts & Estates 75:350 O '42

Progress and educational perspective. E. W. Knight. 148p $1.50 Macmillan '42

Progressive economy and capital. G. Cassel. Trusts & Estates 73:600-1 D '41

Prospects and retrospects; principle of evolutionary change is fundamental to progress. S. C. Prescott. Tech R 44:371-2+ Je '42

Shadow of things to come. A. B. Wells. il Mag of Wall St 70:219-21+ Je 13 '42

PROGRESS—*Continued*

Swords and plowshares; some of our great implements of peace originally were weapons of war. J. Early. il Barron's 22:3 Ja 5; 40 Ja 12; 8 Ja 19; 9 Ja 26; 9-10 F 2; 7 F 9; 8 F 16; 9 F 23; 7 Mr 2; 7 Mr 16; 20 Mr 23 '42

See also

Civilization
Inventions
Social problems
Social progress

PROJECTILES

Armor-crashing bullets X-rayed by high-speed tubes. Sci Am 166:293-4 Je '42

Light alloy armor plate; penetration tests. Iron Age 149:41 Mr 19 '42

Military rockets; anti-aircraft traps, rocket shells, weather study, airplane starters, are possibilities. A. Klemin. diags Sci Am 166: 97-8 F '42

Propelling the projectile. A. F. Macconochie. il diags Steel 109:60-3+ D 8 '41

Radio-frequency device for detecting the passage of a bullet. C. I. Bradford. il diags Inst Radio Eng Proc 29:578-83 N '41

See also

Bombs, Aerial
Gunnery
Shells (projectiles)
Torpedoes

Manufacture

Driers speed production of tracer bullets. Refrig Eng 44:175 S '42

Improved surface condition of cast projectiles. A. M. Portevin. diags Metal Prog 42:239-40 Ag '42

No work-spread; army kills plan to produce bullet cores on single-purpose lathes. Business Week p65 Je 13 '42

Small arms ammunition manufacture; Lake City ordnance plant. J. B. Nealey. il Iron Age 149:29-34 Ja 8 '42

Standard drawing dies (carbide) for small ammunition. E. Glen. il diags Metal Prog 42:229-32 Ag '42; Same. Mach 49:172-4 S '42

Testing

Conditioned air equipment company designs shot testing equipment. Refrig Eng 44:320 N '42

Refrigeration unit for shock testing at ordnance plant. R. C. Lindblom. il Heating-Piping 14:669-70 N '42

PROJECTION, Spherical. See Spherical projection

PROJECTION apparatus

Projected writing for use by teachers and lecturers. il Sci Am 166:140-1 Mr '42

See also

Epidiascope
Light projection
Moving picture projection

PROJECTION rooms. See Moving picture theaters—Projection rooms

PROJECTIVE differential geometry. See Geometry, Differential—Projective

PROJECTORS, Slide film. See Slide film projectors

PROLINE

Quantitative investigations of amino acids and peptides; equilibria between amino acids and formaldehyde. E. H. Frieden, M. S. Dunn and C. D. Coryell. bibliog diag J Phys Chem 46:215-21 F '42

PROLYCOPENE

Prolycopene. A. L. LeRosen and L. Zechmeister. bibliog diag Am Chem Soc J 64: 1075-9 My '42

PROMIN

New chemical remedy for tuberculosis. J. Stafford. Science 95:sup8 My 15 '42

PROMISSORY notes

Informally drawn note valid? C. R. Rosenberg, jr. Burroughs Clearing House 26:39-40 Mr '42

Note due at whim of holder; language of a note may make it non-negotiable. C. R. Rosenberg, jr. Burroughs Clearing House 26:27 Je '42

Photographs of notes avoid loss. J. Y. Beaty. Bankers Mo 59:124 Mr '42

Slow payments on note. C. R. Rosenberg, jr. Burroughs Clearing House 26:27 Mr '42

So you went on a note for a friend; advice to co-signers. L. T. Parker. Bus Transportation 21:172-3 Ap '42

PROMOTERS, Fraudulent

Law for the layman. M. L. Hayward. Barron's 22:9 Ag 24 '42

PRONUNCIATION

Medical orthoepy. B. N. Craver. Science 96: 272-3 S 18 '42

Pronunciation of star and constellation names. J. Stokley. Science 96:sup7 Ag 14 '42

Your speech and how to improve it. F. Colby. 425p bibliog(p421-5) $2.98 Vanguard press, New York '41

PROOF presses

Testing printability of paper with ink; use of an engravers proofpress. F. A. Weymouth. bibliog Paper Tr J 114:37-40 Ap 9 '42

PROOFREADING

Errors in print world are for all world to see. E. N. Teall. Inland Ptr 108:60 F '42

Proofreader's place in war time. Inland Ptr 109:57 Ap '42

Proofreading and copy-preparation. J. Lasky. 656p bibliog(p613-21) $7.50 Mentor press, 360 W. 23d st, New York '41

Proofroom. E. N. Teall. Published in monthly numbers of Inland printer

See also

Word division

PROPAGANDA

Civilian morale agency. E. Angell. Ann Am Acad 220:160-7 Mr '42

Latin American newspapers and propaganda. H. P. Bakewell. Special Lib 32:378-80 D '41

Press, propaganda, and pressure groups. R. D. Casey. Ann Am Acad 219:66-75 Ja '42

Print, radio, and film in a democracy. D. Waples, ed. 197p bibliog(p185-9) $2 Univ. of Chicago press '42

Propaganda is not advertising; fact-trained agency men may short-change the intangibles. Adv & Sell 35:20-1 Je '42

Psychology: the third dimension of war. C. C. Pratt. 29p pa 25c Columbia univ. press '42

Twelve decisive battles of the mind; the story of propaganda during the Christian era. G. Munson. 280p $3.50 Greystone press, New York '42

See also

Public opinion

PROPAGANDA, German

Divide and conquer. 15p bibliog(p15) Office of facts and figures, Washington, D.C.

German psychological warfare. L. Farago, ed. 302p bibliog(p181-296) $3 Putnam '42

German psychological warfare; survey and bibliography. L. Farago and L. F. Gittler, eds. 2d ed 133p pa $2.50 Committee for national morale, New York '41

Nazi activity in Argentina. Economist 141: 503-4 O 25 '41

Nazi underground in South America. H. F. Artucio. 311p $3 Farrar '42

PROPANE

Applications of thermodynamics to multi-component systems. B. H. Sage and R. H. Olds. bibliog il diag Ind & Eng Chem 34:526-32 My '42

Carbon-carbon bond strengths in ethane, propane, and *n*-butane. E. R. Van Artsdalen. J Chem Phys 10:653 O '42

Compressor-absorption type gasoline plant produces four products. F. H. Love. il Pet Eng 13:149-50, 152 My '42

Cracking of petroleum hydrocarbons. L. J. Willien. Gas Age 90:13-14+ N 5 '42

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Ethylene-ethane and propylene-propane equilibria. G. B. Kistiakowsky. bibliog J Chem Phys 10:78-9 Ja '42

PROPANE—*Continued*

Extraction of fatty acids from rosin acid; fatty acid mixtures by means of liquid propane. A. W. Hixson and A. N. Hixson. bibliog il diags Am Inst Chem Eng Trans 37:927-54; Discussion. 954-7 D '41

Flame preheating and stress relieving arc-welded high-pressure pipe lines; use of oxyacetylene and propane. P. T. Onderdonk and W. Peterson. il diags Welding J 21:96-101 F '42

Fluorinated derivatives of propane. A. L. Henne, M. W. Renoll and F. W. Haeckl. Am Chem Soc J 61:2489-91; 63:3476-8 S '39, D '41

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38:891-930 O '42

Natural-gasoline producers warned parade is passing; manufacturers should become active in supplying butanes and propanes for the manufacture of butadiene, styrene and toluene. D. E. Buchanan. Oil & Gas J 41:28+ My 21 '42

Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42

Preparation and directed chlorination of 1,1,1-trifluoropropane. A. L. Henne and A. M. Whaley. bibliog Am Chem Soc J 64:1157-9 My '42

P-V-T-x relations of the system propane-isopentane. W. E. Vaughan and F. C. Collins. bibliog Ind & Eng Chem 34:885-90 Jl '42

Propane, a substitute for butane in motor fuels. R. C. Alden, H. M. Trimble and L. A. McReynolds. bibliog Oil & Gas J 40:80-1+ Mr 26 '42

Propane replacing butane in bottle gases. Oil & Gas J 41:38 N 5 '42

Properties of mixtures of propane with various gases as a replacement for natural gas; tables. C. G. Segeler. Am Gas Assn Proc 1941:113-15

Strength of carbon-hydrogen and carbon-carbon bonds. D. P. Stevenson. bibliog diag J Chem Phys 10:291-4 My '42

Surface tensions of methane-propane mixtures; abstract. D. L. Katz and C. F. Weinaug. Nat Pet N 34 pt 2:R319 S 30 '42

Viscosity of propane, butane, and isobutane. M. R. Lipkin, J. A. Davison and S. S. Kurtz, jr. bibliog diags Ind & Eng Chem 34:976-8 Ag '42

PROPANOL. See Propyl alcohol

PROPARGYL halides

Electron diffraction investigation of propargyl chloride, bromide, and iodide. L. Pauling, W. Gordy and J. H. Saylor. bibliog Am Chem Soc J 64:1753-6 Ag '42

PROPELLERS

Meehanite a substitute material for gear cases and propellers. Marine Eng 47:261 O '42

New coated bronze electrode for arc welded repairs on bronze propellers. Marine Eng 47:268 O '42

Sir Charles Parsons and the Royal navy. S. Goodall. diags Engineer 173:262-3, 281-2, 309-10 Mr 27-Ap 10 '42

See also
Airplane propellers
Kort nozzle

Manufacture

Koppers propellers for driving the victory merchant fleet. S. W. Randolph. il diag Mach 49:154-63 N '42

Officials of Maritime commission see 22,500-lb. propeller manufactured. il Blast F & Steel Pl 30:787 Jl '42

Propeller-blade milling machine. il Engineering 154:106 Ag 7 '42

Repair

Propeller repair. R. Wagner. diag Welding J 21:20-1 Ja '42

PROPENE. See Propylene

PROPENYLANISOLE. See Anethole

PROPERTY

Democracy, liberty, and property; readings in the American political tradition. F. W. Coker, ed. 881p $4.25 Macmillan '42

Property rights invaded through regulations on private property; abstracts. P. F. Cadman. Comm & Fin Chr 155:670 F 12 '42; Trusts & Estates 74:125-8 F '42

See also
Income
Real property
Taxation

PROPIONATES

Studies in esterification; preparation and properties of starch propionate. D. E. Mack and R. N. Shreve. bibliog diag Ind & Eng Chem 34:304-9 Mr '42

PROPIONIC acid

Analysis of cellulose derivatives; analysis of cellulose mixed esters by the partition method. C. J. Malm, G. F. Nadeau and L. B. Genung. bibliog il Ind & Eng Chem Anal ed 14:292-7 Ap 15 '42

Ionization constant of propionic acid in dioxane-water mixtures. H. S. Harned and T. R. Dedell. bibliog Am Chem Soc J 63:3308-12 D '41

Ionization constants of propionic acid in methyl and ethyl alcohol-water mixtures from 0 through 40°. A. Patterson and W. A. Felsing. Am Chem Soc J 64:1480-2 Je '42

Properties of cellulose esters of acetic, propionic, and butyric acids. C. J. Malm, C. R. Fordyce and H. A. Tanner. Ind & Eng Chem 34:430-5 Ap '42

Relative acid strengths of formic, acetic, and propionic acids in alcohols and dioxane-water mixtures. M. Kilpatrick and R. D. Eanes. bibliog Am Chem Soc J 64:2065-7 S '42

Study of the vapor of propionic acid at 45, 50, 55, 60 and 65°. F. H. MacDougall. Am Chem Soc J 63:3420-4 D '41

Synthesis of methyl α-methoxyacrylate and α-methoxyacrylonitrile; characterisation of methoxy-derivatives of propionic acid. J. W. Baker. Chem Soc J p520-2 Ag '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

PROPORTIONING

Sand blending; simple mathematical methods of determining size distribution. F. C. Bond. Rock Prod 45:60+ O '42

PROPORTIONING equipment

Centralized storage for materials; accurately controlled system of blending; Lehigh's Alsen plant. il Rock Prod 45:54-5+ O '42

Controlling flotation reagents automatically; Cuban-American manganese plant. F. Trotter. il plan Eng & Min J 142:45-6 N '41

Graver chemical proportioning control unit. il Water Works & Sewerage 89:insert 124 Je '42

PROPRIETARY association of America

Annual meeting, 60th, New York, May 16-20. Oil Paint & Drug Rep 141:3+ My 25 '42

PROPYL alcohol

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diags Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Effect of substituents on the acid strength of benzoic acid; in *n*-propyl alcohol. J. H. Elliott. bibliog J Phys Chem 46:221-7 F '42

Ternary systems involving cyclohexane, water, and isopropyl and normal propyl alcohols. E. R. Washburn and others. bibliog Am Chem Soc J 64:1886-8 Ag '42

PROPYL trichloroacetates

Chlorination of propyl trichloroacetates. C. W. Gayler and H. M. Waddle. Am Chem Soc J 63:3358-9 D '41

PROPYLAMINE

Optically active vasopressor amines. W. R. Brode and M. S. Raasch. bibliog Am Chem Soc J 64:1449-50 Je '42

PROPYLENE

Alkylation of paraffins at low temperatures in the presence of aluminum chloride. H. Pines, A. V. Grosse and V. N. Ipatieff. diags Am Chem Soc J 64:33-6 Ja '42

Ethylene-ethane and propylene-propane equilibria. G. B. Kistiakowsky. bibliog J Chem Phys 10:78-9 Ja '42

Glycerin, indirect product of petroleum. W. L. Nelson. Oil & Gas J 41:44 Ag 27 '42

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33:1540-4 D '41

Infra-red spectra of hydrocarbons; some investigations of the temperature dependence of absorption bands. W. H. Avery and C. F. Ellis. diag J Chem Phys 10:10-18 Ja '42

Solubility of propylene vapor in water as affected by typical detergents. J. W. McBain and A. M. Soldate. Am Chem Soc J 64:1556-7 Jl '42

Studies in gaseous hydrogenation and polymerization reactions. H. D. Burnham and R. N. Pease. bibliog Am Chem Soc J 64:1404-10 Je '42

Supersonic measurement of the heat capacity of propylene. D. Telfair. bibliog J Chem Phys 10:167-71 Mr '42

PROPYLENE glycol

Method for determining the concentration of propylene glycol vapor in air. T. T. Puck. Science 95:178 F 13 '42

Prevention of influenza epidemics by spraying propylene glycol. Science 94:sup10 D 26 '41

Propyleneglycol gets FDA sanction in food. Oil Paint & Drug Rep 140:7 D 1 '41

Protection of mice against infection with air-borne influenza virus by means of propylene glycol vapor. O. H. Robertson and others. bibliog Science 94:612-13 D 26 '41

PROSPECT lists

See also

Mailing lists

PROSPECTING

Cable-tool core barrel facilitates exploration of fluorspar deposits. Eng & Min J 143:54 S '42

Chromite in southeastern Manitoba. J. P. de Wet. Can Min J 63:657-8 O '42

Exploration possibilities in the Cadillac-Malartic district. G. F. Flaherty. maps Can Min J 63:283-9 My '42

Factors in ore discovery. R. H. Sales. Min Cong J 28:32-3 Ja '42

Fluorescent light; the prospector's new tool; ultra-violet lamp aids in determining presence of scheelite and other minerals. R. Hamilton. il Min Cong J 28:52-3 Ap '42

Human element in finding mines. J. W. Wade. il Min Cong J 28:33-4 Ja '42

Mining geologist's service to the mineral industry. R. H. Sales. Min & Met 23:381 Jl '42

Mining geology, 1941. H. Schmitt. Eng & Min J 143:78-80 F '42

Mining geology; present problem is discovery and exploitation of ore deposits to meet war needs. H. E. McKinstry. il Min & Met 23:57-61 F '42

Portable ultraviolet lamp for the prospector. Comp Air M 47:6826 Ag '42

Prospecting for victory. O. A. Fitzgerald. il Explosives Eng 20:224-7 Ag '42

Trends in ore geology. A. Locke. Min Cong J 28:30-2 Ja '42

Tungsten prospecting in Gilmour Lake area. W. S. Walker. Can Min J 63:145-9 Mr '42

See also

Mines and mineral resources

Petroleum—Prospecting

Electric methods

Depth dependence of earth conductivity upon surface potential data. W. G. Keck and W. F. Colby. bibliog J Ap Phys 13:179-88 Mr '42

Electric exploration for oil; abstract. H. M. Evjen. Oil & Gas J 41:48 N 5 '42

Resistivity method of locating oil and gas pays. J. L. Harper. Oil & Gas J 41:64-6 Je 11 '42

Superposition in the interpretation of two-layer earth-resistivity curves. I. Roman. diag U S Geol S Bul 927-A:1-18, pl 1-2; pa 30c Supt. of doc. '41

Geophysical methods

Geophysical exploration somewhat more active in U.S. in 1941. L. W. Blau. il Min & Met 23:62-5 F '42

Magnetometer surveys during 1941. E. L. Tullis. 40p bibliog(p30) Univ. of South Dakota, Vermillion '42

Present status of geophysics in Canada; abstract. A. A. Brant. Inst Pet J 28:178A-9A My '42

Seismic shooting near power lines; the use of Primacord detonating fuse reduces hazards. R. L. Klotz, jr. il diags Explosives Eng 20:108-12 Ap '42

Society of economic geophysicists; abstracts of papers. Oil & Gas J 40:57 Ap 23 '42

Spiralok, a new shell for seismic shooting. J. C. McAfee. il Explosives Eng 20:105-7 Ap '42

Bibliography

Geophysical abstracts 102, July-September, 1940. W. Ayvazoglou, comp. U S Geol S Bul 925-C:93-136; pa 10c Supt. of doc. '41

Geophysical abstracts 103, October-December, 1940. W. Ayvazoglou, comp. U S Geol S Bul 925-D:137-200 [Index, January-December, 1940, p181-200]; pa 10c Supt. of doc. '41

Geophysical abstracts 104, January-March 1941. W. Ayvazoglou, comp. U S Geol S Bul 932-A:1-40; pa 10c Supt. of doc. '41

Geophysical abstracts 105, April-June, 1941. W. Ayvazoglou, comp. U S Geol S Bul 932-B:41-84; pa 10c Supt. of doc. '42

Geophysical abstracts 106, July-September, 1941. W. Ayvazoglou, comp. U S Geol S Bul 932-C:85-122; pa 10c Supt. of doc. '42

PROSPECTS for life insurance. See Insurance, Life—Prospects

PROSPECTUSES

Even shorter prospectus would help increase sales. Comm & Fin Chr 156:711 Ag 27 '42

PROSPERITY

See also

Business conditions

Business cycles

PROSSER, Seward, 1871-1942

Sketch. Comm & Fin Chr 156:1351 O 15 '42; East Underw 43:18 O 9 '42

PROSTIGMIN

Synthetic chemical, prostigmin helps ear noises; abstract. A. F. Judge. Science 95:sup12 Mr 27 '42

PROTACTINIUM

β-ray spectra of rubidium^{86}, strontium^{89}, eka-tantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42

PROTAMINES

Antibacterial properties of protamine and histone. B. F. Miller and others. bibliog Science 96:428-30 N 6 '42

PROTEASES

New protease from pileus mexicanus. M. Castañeda, F. F. Gavarron and M. R. Balcazar. Science 96:365-6 O 16 '42

PROTECTIVE clothing. See Clothing, Protective

PROTECTIVE paint. See Paint, Protective

PROTEINS

Acid dyeing and animalizing of cellulosic and synthetic fibers. Am Dyestuff Rep 31:494, 509-11 O 12 '42

Alcoholic splitting of proteins. S. M. Trister. Franklin Inst J 232:500-4 N '41

Beetles and moths will attack all protein fibers. il Rayon 23:549 S '42

Binding of sulfonamides by plasma proteins. B. D. Davis. Science 95:78 Ja 16 '42

PROTEINS—*Continued*

Calculation of protein-anion affinity constants from acid titration data. J. Steinhardt. bibliog J Research Nat Bur Stand 28:191-9 F '42

Chemistry of allergens; chemical composition and properties of an active carbohydrate-free protein from cottonseed. J. R. Spies and E. J. Umberger. Am Chem Soc J 64:1889-91 Ag '42

Chemistry of allergens; the amino acid content of active protein and polysaccharidic protein fractions from cottonseed. J. R. Spies. bibliog Am Chem Soc J 63:2994-6 N '41

Dependence of the indigestibility of wool protein upon its polymeric structure. W. B. Geiger and M. Harris. bibliog J Research Nat Bur Stand 29:271-7 O '42

Determination of soybean flour in sausages and other meat products; a protein separation method. J. Bailey. bibliog(71 references) Ind & Eng Chem Anal ed 14:776-81 O 15 '42

Direct use of leaf protein in human nutrition. N. W. Pirie. bibliog Chem & Ind 61:45-8 Ja 24 '42

Effect of cooking on solubility of cottonseed-meal proteins. H. S. Olcott and T. D. Fontaine. bibliog Ind & Eng Chem 34:714-16 Je '42

Effect of urea on the electrophoretic patterns of serum proteins. D. H. Moore. il Am Chem Soc J 64:1090-2 My '42

Effects of heat on dry proteins; the kinetics of the formation of insoluble egg albumin. F. W. Bernhart. bibliog J Phys Chem 45:1382-7 D '41

Electrode polarization in dielectric constant measurements. W. G. Smiley and A. K. Smith. bibliog Am Chem Soc J 64:624-8 Mr '42

Electrophoresis of proteins and the chemistry of cell surfaces. H. A. Abramson, L. S. Moyer and M. H. Gorin. 341p $6 Reinhold pub. corp. '42

Electrophoresis of the chlorophyll-protein complex. M. Fishman and L. S. Moyer. bibliog Science 95:128-9 Ja 30 '42

Further investigations of the affinities of anions of strong acids for wool protein. J. Steinhardt, C. H. Fugitt and M. Harris. bibliog J Research Nat Bur Stand 28:201-16 F '42; Same abr. Am Dyestuff Rep 31:77-8, 97-100 F 16 '42

Green leaves as a source of protein and other nutrients; abstract. A. C. Chibnall and others. Chem & Ind 61:112-13 F 28 '42

Industrial protein chemistry 1941-1942. J. Bjorksten. il Chem Ind 51:366-70 bibliog (167 patents) S '42

Investigation of proteins by dielectric measurements. J. L. Oncley. bibliog (53 references) diags Chem R 30:433-50 Je '42

Investigation of proteins by diffusion measurements. H. Neurath. bibliog il diags Chem R 30:357-94 Je '42

Isolation of a copper bearing protein from cow's milk. W. L. Dills and J. M. Nelson. bibliog Am Chem Soc J 64:1616-18 Jl '42

Liebig and proteins. H. B. Vickery. J Chem Educ 19:73-9 F '42

Nation's food; meat as food; the fat, protein, and water contents of meat. E. H. Callow. Chem & Ind 61:381-2 S 12 '42

Preparation of plastics and elastomers in liquid ammonia. R. G. Roberts. Chem & Eng N 20:316 Mr 10 '42

Preparation of sterile proteins in the lyophiled state. I. R. Railton, B. Cunningham and P. L. Kirk. Science 94:469-70 N 14 '41

Recent advances in the study of proteins by electrophoresis. L. G. Longsworth. bibliog diags Chem R 30:323-40 Je '42

Solubility methods in the study of proteins. R. M. Herriott. bibliog Chem R 30:413-21 Je '42

Soybean protein; adhesive strength and color. A. K. Smith and H. J. Max. bibliog Ind & Eng Chem 34:817-20 Jl '42

Suggestion for a new method of fractionation of proteins by electrophoresis convection. J. G. Kirkwood. J Chem Phys 9:878-9 D '41

Symposium on physicochemical methods in protein chemistry; introduction. D. A. MacInnes. Chem R 30:321-2 Je '42

Textile fibers from vegetable proteins. K. Wardle. Textile Col 64:423 S '42

Utilization of food proteins. J. C. McGowan. Chem & Ind 61:150 Mr 28 '42

Wheat germ protein; abstract. E. L. Love and C. G. Harrel. Science 95:sup9 My 29 '42

X-rays and the stoicheiometry of the proteins, with special reference to the structure of the keratin-myosin group. W. T. Astbury. bibliog pl diags Chem Soc J p337-47 My '42; Abstract. Soc Dyers & Col J 58:163-4 Ag '42

See also

Albumin
Amino acids
Avidin
Casein
Collagen
Gelatin
Gluten
Hemoglobin
Histones
Peptides
Zein

Analysis

Acid-base titration of proteins. R. K. Cannan. bibliog Chem R 30:395-412 Je '42

Protein constituent analysis by the solubility method. S. Moore, W. H. Stein and M. Bergmann. bibliog Chem R 30:423-32 Je '42

Quantitative spectroscopic analysis of proteins. A. M. Buswell and R. C. Gore. bibliog J Phys Chem 46:575-81 My '42

Ultracentrifuge; practical aspects of the ultracentrifugal analysis of proteins. E. G. Pickels. bibliog il diags Chem R 30:341-55 Je '42

Bibliography

Industrial protein chemistry 1941-1942. J. Bjorksten. Chem Ind 51:369-70 S '42

Denaturation

Denaturation of proteins and its apparent reversal. H. Neurath, G. R. Cooper and J. O. Erickson. bibliog J Phys Chem 46:203-11 Ja '42

Heat denaturation of protein in soybean meal. A. C. Beckel, W. C. Bull and T. H. Hopper. bibliog Ind & Eng Chem 34:973-6 Ag '42

X-ray analysis of protein denaturation. M. Spiegel-Adolf and G. C. Henny. bibliog il J Phys Chem 45:931-7; 46:581-6 Je '41, My '42

PROTHROMBIN

Hypo-prothrombinemia produced by 3,3^1-methylenebis (4-hydroxycoumarin) and its use in the treatment of thrombosis. J. Lehmann. bibliog Science 96:345-6 O 9 '42

PROTONS

Distribution in angle of protons from the D-D reaction. H. P. Manning and others. diags Phys R 61:371-4 Mr 1 '42

Frequency of proton and alpha-tracks in cosmic-ray stars. M. M. Shapiro. bibliog Phys R 61:115-20 F 1 '42

Interaction of slow neutrons with nuclei. H. Carroll. bibliog diags Phys R 60:702-9 N 15 '41

Production of neutrons and protons by the cosmic radiation at 14,125 feet. S. A. Korff and E. T. Clarke. bibliog Phys R 61:422-7 Ap 1 '42

Proton production by electron collisions in molecular hydrogen. H. F. Newhall. bibliog diags Phys R 62:11-18 Jl 1 '42

Pseudoscalar meson field with strong coupling. W. Pauli and S. M. Dancoff. bibliog Phys R 62:85-108 Ag 1 '42

Range and ionization measurements on high speed protons. R. R. Wilson. bibliog diag Phys R 60:749-53 D 1 '41

Short range alpha-particles from fluorine bombarded with protons. R. A. Becker, W. A. Fowler and C. C. Lauritsen. bibliog il diags Phys R 62:186-96 S 1 '42

Stars and slow protons at 14,125 feet. W. M. Powell. Phys R 61:670 My 1 '42

See also

Neutrons

PROTONS—*Continued*

Scattering

Angular distribution of protons scattered by high energy neutrons. H. Tatel. diags Phys R 61:450-4 Ap 1 '42

Scattering of protons by deuterium. R. F. Taschek. Phys R 61:13-17 Ja 1 '42

Scattering of protons by protons from 200 to 300 kev. G. L. Ragan, W. R. Kanne and R. F. Taschek. diag Phys R 60:628-40 N 1 '41

PROTOPLASM

See also

Cytochromes

PROTOZOA

Transition from the individual to the social level. H. S. Jennings. bibliog Science 94: 447-53 N 14 '41

PROTOZOA, Fossil

See also

Radiolaria, Fossil

PROTOZOA, Pathogenic

Laboratory diagnosis of protozoan diseases. C. F. Craig. 349p bibliog(p329-37) $4.50 Lea & Febiger, Philadelphia '42

PROTRACTOR

Magnetic protractor for assembling machinery. G. J. Murdock. diag Am Mach 86:657 Je 25 '42

PROTYROSINASE

Enzymes in ontogenesis (orthoptera); the importance of copper for protyrosinase. T. H. Allen and J. H. Bodine. Science 94: 443-4 N 7 '41

PROVIDENCE, Rhode Island

Rapid transit

No royal road to staggered hours; how Providence, R. I. is solving problem. E. F. Theisinger. il Bus Transportation 21:398-401 S '42

PROVITAMINS

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14: 391-5 My 15 '42

PROVO, Utah

Utah municipal plant maintains good operating record. R. W. Brown. flow diag il diag Power Pl Eng 46:74-8+ F '42

PROXIES

Ask SEC for hearing on proxy rule change. Comm & Fin Chr 156:1100 S 24 '42

Calls for proxy rule changes to prevent corporate mismanagement. G. Purcell. Comm & Fin Chr 156:893 S 10 '42

Inquiry by House committee into SEC proposal to change proxy rules demanded. M. J. Kennedy. Comm & Fin Chr 156:1262-3 O 8 '42

Insists over-the-counter dealer be protected; proposed proxy amendment. E. E. Chase. Comm & Fin Chr 155:649+ F 12 '42

Proxy troubles; SEC proposes new rules. Business Week p95+ S 19 '42

SEC amends proxy rule. Comm & Fin Chr 155:575 F 5 '42

SEC summary of proposed proxy rule revision. Comm & Fin Chr 156:893 S 10 '42

Suggests banks send proxy statements. L. Criscuolo. Comm & Fin Chr 154:1426 D 11 '41

Urge delaying proxy changes until peace. Comm & Fin Chr 156:1345 O 15 '42

What the new SEC proxy rules will mean to you. L. Stern. Mag of Wall St 70:652-3+ O 3 '42

PRUDENTIAL assurance company

Statement to the shareholders. Economist 142:614 My 2 '42

PRUDENTIAL insurance company of America

Prudential now free to complete mutualization. Nat Underw (Life ed) 46:3 Ag 7 '42

Seeks purchase of outstanding stock; to shift from stock to mutual basis. Comm & Fin Chr 156:84-5 Jl 6 '42

Snake Hill and the Prudential's Rock of Gibraltar are inexorably tied together. R. L. Barbour. Ins Field (Life ed) 71:6 Ja 30 '42

To get outstanding stock to complete mutualization. Comm & Fin Chr 155:829 F 24 '42; Nat Underw (Life ed) 46:2 F 20 '42

PRUNES

New—nectar made from fresh prunes. C. W. Eddy and M. K. Veldhuis. flow sheet Food Ind 14:46-7 Mr '42

Prune pickup; California growers look for record year. Business Week p69-70 Je 6 '42

Prunes and encyclopedias. il Ptr Ink 197:42 D 26 '41

Prunes go it alone; California growers vote against renewing their prorate program. Business Week p46+ Ag 29 '42

Prunes ready to eat; packaged in lead foil. il Mod Packaging 15:78, 80, 82+ Ag '42

PRUSSIAN blue

X-ray diffraction studies on heavy-metal iron-cyanides. H. B. Weiser, W. O. Milligan and J. B. Bates. bibliog diags J Phys Chem 46:99-111 Ja '42

PRUSSIC acid. See Hydrocyanic acid

PSEUDOGLOBULIN

X-ray diffraction analysis of protein denaturation. M. Spiegel-Adolf and G. C. Henny. J Phys Chem 46:581-6 My '42

PSEUDOMIGMATITE

Pseudomigmatite in the piedmont of Maryland. R. W. Chapman. bibliog diags Geol Soc Bul 53:1299-1330, pl 1-6 S '42

PSEUDOSAPOGENINS

Sterols; sapogenins; the action of hydrogen peroxide on the pseudosapogenin acetates and on the pregnenolones. R. E. Marker, E. M. Jones and E. L. Wittbecker. Am Chem Soc J 64:468-9 F '42

Sterols; sapogenins; the structure of the side chain in the dihydro-pseudosapogenins. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1655-8 Jl '42

PSYCHIATRIC hospitals. See Hospitals, Psychiatric

PSYCHICAL research

Our search for the supernatural (cont). A. D. Rathbone, 4th. il Sci Am 166:84+, 132-3; 167:66 F-Mr, Ag '42

PSYCHOANALYSIS

Goals and desires of man; a psychological survey of life. P. Schilder. 305p bibliog(p285-92) $4 Columbia univ. press '42

Self-analysis. K. Horney. 309p $3 Norton '42

PSYCHOLOGICAL corporation

Twentieth anniversary. Science 94:536 D 5 '41

PSYCHOLOGY

Factor analysis; a synthesis of factorial methods. K. J. Holzinger and H. H. Harman. 417p bibliog(p398-405) $5 Univ. of Chicago press '41; Review by H. Hotelling. Science 95:504-7 My 15 '42

See also

Ability tests
Advertising—Psychology
Child study
Learning, Psychology of
Mental hygiene
Personality

Bibliography

What to read on psychology. M. E. Hawes. 36p pa 40c Am. lib. assn, 520 N. Michigan av, Chicago '42

Study and teaching

Status of experimental psychology among the laboratory sciences; result of questionnaire sent to 75 universities and colleges. J. E. Winter. Science 95:96-7 Ja 23 '42

Status of experimental psychology at the University of Missouri. F. A. Courts. Science 95:275 Mr 13 '42

PSYCHOLOGY, Applied

How to handle people and get them to do what you want them to do. M. Droke. 246p $1 Garden City pub. co, Garden City, N.Y. '42

PSYCHOLOGY, Applied—*Continued*

Let's understand each other. E. R. Wembridge. 322p $2.50 Womans press, New York '40

Principles of applied psychology. A. T. Poffenberger. 655p bibliog(p617-42) $4 Appleton-Century '42

Psychological racketeers. F. H. Kirkpatrick. Personnel J 20:283-6 F '42

Psychology in everyday life. W. C. Varnum. 2d ed 490p $3 McGraw-Hill '42

Psychology of credit letters. H. M. Sommers. Credit & Fin Management 44:4-7+ S; 10-12+ O; 12-15, 26-30 N '42

Public relations on an individual basis. M. A. Bills. Special Lib 32:336-9 N '41

Word magic; tested answers to 100 everyday situations. E. Wheeler. 220p $1 Blue ribbon books '42

See also

Psychology, Industrial

PSYCHOLOGY, Comparative

Comparative psychology. F. A. Moss, ed. rev ed 404p $4 Prentice-Hall '42

PSYCHOLOGY, Experimental

Laboratory psychology and the A.B. degree. W. N. Kellogg. Science 96:83-4 Jl 24 '42

PSYCHOLOGY, Industrial

Applied psychology and defense. Barron's 21:5 D 8 '41

Applied psychology increases war output 20 times; work of Britain's National institute of industrial psychology. Steel 110:116-17 Ap 20 '42

Decisions and their significance; abstract. L. I. Hunt. Management R 31:332-3 O '42

Fundamentals of industrial psychology. A. Walton. 231p $2 McGraw-Hill '41

How workers react to wartime problems; abstract. H. C. Link. Management R 31:369-70 N '42

Importance of rest periods. M. Van de Water. Science 96:sup7 Ag 14 '42

Increased efficiency and high performance standards definitely linked to fitting workman to job. O. G. Van Campen. Coal Age 46:45-6 N '41

Industrial morale. L. G. Giberson. Ind Med 11:116-18 Mr '42

Industrial psychology. J. Tiffin. 386p $4.65; school ed $3.50 Prentice-Hall '42

Philosophy of engineering education. R. L. Sackett. Mech Eng 64:340-2+ My '42

See also

Ability tests
Advertising—Psychology
Advertising copy
Employment management
Fatigue
Lighting—Psychological aspects
Safety devices and measures—Psychological aspects
Social psychology

PSYCHOLOGY, Pathological

Eclipse of a mind. A. Graves. 722p $5 Medical journal press, New York '42

Some psychiatric aspects of total war; abstract. W. L. Neustatter. J Ind Hygiene 24:sup128-9 Je '42

See also

Mental diseases

History

Doctors of the mind; the story of psychiatry. M. B. Ray. 335p $3 Little '42

PSYCHOLOGY, Physiological

Diagnosis of man. K. Walker. 255p 10s 6d J. Cape, London '42

Mind: perception and thought in their constructive aspects. P. F. Schilder. 432p bibliog(p393-415) $5 Columbia univ. press '42

Physiological psychology. S. R. Hathaway. 335p bibliog(p323-5) $2.75 Appleton-Century '42

PSYCHOLOGY, Political. See Political psychology

PSYCHOLOGY, Social. See Social psychology

PSYCHOLOGY of color. See Color—Psychology

PSYCHOPOLITICS (term)

New study and a name for it proposed. I. A. Richards. Fortune 26:108-9, 114, 116 S '42

PSYCHOTHERAPY

Doctors of the mind; the story of psychiatry. M. B. Ray. 335p $3 Little '42

Psychotherapy in medical practice. M. Levine. 320p bibliog(p303-6) $3.50 Macmillan '42

PSYCHROMETRY. See Humidity

PUBLIC accountants. See Accountants, Public

PUBLIC address system. See Loud speaking apparatus

PUBLIC administration. See Administration, Public

PUBLIC agencies. See Administration, Public

PUBLIC buildings

Equipment maintenance on huge earth job; operation of 376 pieces of heavy equipment on a 6,000,000-cu. yd. dirt-moving job at War department office building, Arlington, Va. il Eng N 129:34-6 Jl 2 '42

How we did it before; rapid construction and employment management in building Navy and munitions building, Washington, D.C. in 1918. il Eng N 129:236-8 Ag 13 '42

What does all this mean nationally? check list and portfolio of America's building need. il diags plans Arch Rec 90:48-80 D '41

See also

Courthouses
Fire houses
Health centers
Hospitals
Library buildings
Municipal buildings
Post offices
Prisons
Public health departments—Buildings
Public works
School buildings
Washington, D.C.—War department building

Protection

Air raid protection code prepared for federal buildings released to industry. Eng N 129:391 S 17 '42

Sanitation

Pathogenic bacteria in public places. W. G. Walter and G. J. Hucker. Soap & San Chem 18:99, 101, 103, 105 F '42

PUBLIC debts. See Debts, Public

PUBLIC health

Civilian health in wartime. F. R. Dieuaide. 328p bibliog(p307-12) $2.50 Harvard univ. press '42

Community hygiene. D. F. Smiley and A. G. Gould. 3d ed 448p $2.50 Macmillan '41

Health services of the Commonwealth fund. Science 95:187-8 F 20 '42

Personal and community health. C. E. Turner. 6th ed 652p $3.50 C. V. Mosby co, St Louis '42

Public health aspects of household insecticides and disinfectants. H. C. Fuller. Soap & San Chem 18:88-90 Ag '42

Thirty years in community service, 1911-1941; a brief outline of the work of the Committee on public health relations of the New York academy of medicine. E. H. L. Corwin and E. V. Cunningham. 109p bibliog(p104-6) New York academy of medicine, 2 E. 103d st, New York '42

W. K. Kellogg foundation; the first eleven years, 1930-1941. 217p Trustees of the W. K. Kellogg foundation, Battle Creek, Mich. '42

See also

Air pollution
Alcoholism
Building laws and regulations
Carbon monoxide poisoning
Children—Care and hygiene
Dental service
Dental surveys
Diseases—Statistics
Disinfection and disinfectants
Dust removal
Epidemics
Health centers
Hospitals
Housing—Hygienic aspects
Hygiene, Industrial
Infectious diseases
Insurance, Health
Insurance, Life—Health conservation service
Medical service

PUBLIC health—See also—*Continued*

Medical service, Industrial
Mental diseases
Milk supply
Mortality
Negroes—Health and hygiene
Nurses and nursing, Public health
Nutrition
Pan American health day
Physical examinations
Refuse disposal
Restaurants—Sanitation
Safety devices and measures
Sanitary engineering
Sewage disposal
Sickness
Smoke prevention
Syphilis
Tuberculosis
Ventilation
Water pollution
Water purification
Water supply
Watersheds—Protection

Bibliography

General illness findings. Pub Health Rep 57: 834-41 My 29 '42; Correction. 57:973 Je 26 '42

National health survey; list of publications as of April 1, 1942. Pub Health Rep 57: 834-41 My 29 '42

Public health service publications; a list of publications issued during the period July-Dec. 1941. Pub Health Rep 57:667-72 My 1 '42

Public health service publications; a list of publications issued during the period January-June 1942. Pub Health Rep 57:1460-4 S 25 '42

Selected list of recent books. Munic Ref Lib (New York) Notes 27:82-8 D '41

Finance

Asks insurance bear more health costs; opinion of Governor of Michigan. East Underw 43:17 Ap 17 '42

Statistics

See also
Hospitals—Statistics

Study and teaching

School of public health of the University of Michigan. Science 94:455-6 N 14 '41

Brazil

Work of the Rockefeller foundation in Brazil. Science 95:19-20 Ja 2 '42

California

Industrial medical problems; distribution in California. H. T. Castberg. Ind Med 11: 464-6 O '42

Chile

Social medicine in Chile. S. Allende G. Int Labour R 45:25-43 Ja '42

See also
Insurance, Health—Chile

District of Columbia

Special measures to fight epidemics. J. Stafford. Science 96:sup8-9 Jl 17 '42

Germany

German health. Economist 143:298 S 5 '42

Public health in Germany. Science 96:17-18 Jl 3 '42

Great Britain

British health trend during the war. Monthly Labor R 54:1154-5 My '42

Death rate in England; abstract. P. Stocks. Science 96:sup8 Jl 24 '42

National health in Great Britain after nearly three years of war. Science 96:233-4 S 4 '42

Nation's health. Economist 143:10 Jl 4 '42

Japan

Possibility of a cholera epidemic in Japan. Science 94:sup16 D 19 '41

Mississippi

Epidemiological study of poliomyelitis in Mississippi in 1941. L. L. Lumsden. bibliog map Pub Health Rep 57:729-53 My 15 '42

Pennsylvania

Health departments in wartime; program of the Pennsylvania Department of health. A. H. Stewart. Am Water Works Assn J 34: 1685-8 N '42

Russia

Social services. Economist 143:487 O 17 '42

Turkey

Social assistance in Turkey. Monthly Labor R 55:244-6 Ag '42

United States

Child health and the selective service physical standards. A. Ciocco, H. Klein and C. E. Palmer. Pub Health Rep 56:2365-75 D 12 '41

Distribution of health services in the structure of state government. J. W. Mountin and E. Flook. Pub Health Rep 56:1673-98, 2233-58 Ag 22, N 21 '41

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1195-1209, 1235-75 Ag 14-21 '42

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:885-902, 917-48 Je 12-19 '42

Distribution of health services in the structure of state government; tuberculosis control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:65-90 Ja 16 '42

Distribution of health services in the structure of state government; venereal disease control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:553-78 Ap 17 '42

Fortieth annual conference of the United States Public health service with the State and territorial health officers. Pub Health Rep 57:696-707 My 8 '42

Health of industrial workers, 1941. Monthly Labor R 54:991-3 Ap '42

Health of registrants and the President's plan of rehabilitation; abstract. L. G. Rowntree. Science 94:552-3 D 12 '41

Health of the nation. Science 96:sup6 Jl 31 '42

Keeping America healthy; campaign of Institute of life insurance. Barron's 22:5 S 14 '42

Maternal and child-health services under the Social security act; development of program, 1936-39. maps U S Children's Bur Pub 259:1-109; pa 15c Supt. of doc. '41

Nation's leaders aid "keep well crusade." Weekly Underw 147:65+ Jl 11 '42

Nutrition and national defense. W. H. Sebrell. Am Gas Assn Proc 1941:8-11; Same cond. Am Gas Assn Mo 23:419-21 D '41

Our fragile youth; draftees rejected because of physical or mental defects. H. Fischer. Spectator (Life ed) 149:34-6+ O '42

People of America never in better health; Metropolitan Life statistics. Weekly Underw 146:101+ sec 2 My 9 '42

Winners of health contest; Chamber of commerce competition. Weekly Underw 146: 873+ Ap 18 '42

PUBLIC health administration

Administrative organization for mental hygiene. V. H. Vogel. Pub Health Rep 57: 537-42 Ap 10 '42

City water supply; licensing by State health department of person in charge; city of Hoboken. Pub Health Rep 57:1359-60 S 4 '42

Distribution of health services in the structure of state government; communicable disease control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 56: 2233-58 N 21 '41

Distribution of health services in the structure of state government; medical and dental care by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:1195-1209, 1235-75 Ag 14-21 '42

PUBLIC health administration—*Continued*

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:885-902, 917-48 Je 12-19 '42

Distribution of health services in the structure of state government; tuberculosis control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:65-90 Ja 16 '42

Distribution of health services in the structure of state government; venereal disease control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:553-78 Ap 17 '42

Health council organized by OPM. Oil Paint & Drug Rep 141:5+ Ja 5 '42

Mental hygiene services in rural areas; the program of the Mental hygiene division, Suffolk County Department of health, New York. G. M. Lott. Pub Health Rep 57:1115-26 Jl 31 '42

Opening remarks to the fortieth annual conference of the United States Public health service with the Conference of state and territorial health officers. T. Parran. Pub Health Rep 57:691-6 My 8 '42

Payment for services performed by superintendent of county board of health. Pub Health Rep 57:186-7 Ja 30 '42

Present status of full-time local health organization. F. W. Kratz. fold map Pub Health Rep 57:194-6 F 6 '42

Present status of state cancer control programs. L. A. Scheele. Pub Health Rep 57:1613-20 O 23 '42

Public health services in an Indiana defense community. J. E. Stoner and O. P. Field. 83p bibliog(p76-83) Indiana univ, Bur. of government research, Bloomington '42

Social medicine in Chile. S. Allende G. Int Labour R 45:25-43 Ja '42

Statutes regarding appointment of health officer for particular county alone held unconstitutional; North Carolina Supreme court. Pub Health Rep 57:483-4 Mr 27 '42

See also

Milk supply

Public health departments

PUBLIC health departments

Analysis of industrial hygiene activities in state and local health departments, 1940-41. V. M. Trasko and J. J. Bloomfield. Pub Health Rep 57:853-72 Je 5 '42

Health agencies; their responsibilities and their opportunities during the present crisis. P. V. McNutt. Pub Health Rep 57:685-91 My 8 '42

Health departments in wartime; program of the Pennsylvania Department of health. A. H. Stewart. Am Water Works Assn J 34:1685-8 N '42

Relation of county health department to local water supplies; Nassau-Suffolk water superintendents conference. A. H. Herberger. Am Water Works Assn J 34:836-47; Discussion. 847-8 Je '42

Buildings

Housing of health departments. J. W. Mountin. il plan Pub Health Rep 57:781-9 My 22 '42; Abstract. Arch Rec 92:64-5 Jl '42

Directories

Directory of state and insular health authorities, 1941. Pub Health Rep 56:2156-73 N 7 '41

Government officials in charge of public water-supply and sewerage undertakings, Canada. Water & Sewage 80:30 Je '42

PUBLIC health engineering. See Sanitary engineering

PUBLIC health institute of the city of New York. See New York (city)—Public health research institute

PUBLIC health laws

Alabama health law held invalid in butter case. Comm & Fin Chr 155:672 F 12 '42

Court decision on public health. Published in weekly numbers of Public health reports

Milestones in industrial medicine; acts and laws of His Majesty's Province of the Massachusetts-Bay in New-England. A. H. Whittaker. il Ind Med 10:532-5 D '41

New York City sanitary code; state legislative power not delegated. Pub Health Rep 57:1193-4 Ag 7 '42

State diphtheria immunization requirements; comparative analysis of statutes and health department regulations. W. Fowler. Pub Health Rep 57:325-8 Mr 6 '42

See also

Milk supply—Laws and regulations

Plumbing laws and regulations

PUBLIC health officers

Fortieth annual conference of the United States Public health service with the State and territorial health officers. Pub Health Rep 57:696-707 My 8 '42

Directories

Directory of full-time local health officers, 1942. Pub Health Rep 57:328-60 Mr 6 '42

PUBLIC health surveys

Epidemiological study of poliomyelitis in Mississippi in 1941. L. L. Lumsden. bibliog map Pub Health Rep 57:729-53 My 15 '42

Incidence of pneumonia as recorded in the National health survey. R. H. Britten. Pub Health Rep 57:1479-94 O 2 '42

Nutrition survey of population groups; report of a conference on methods and procedures. Pub Health Rep 57:189-94 F 6 '42

See also

Dental surveys

PUBLIC health workers

Current needs for health personnel. G. St J. Perrott. Pub Health Rep 57:997-100 Jl 3 '42

PUBLIC lands

Public land acquisition in law and practice. H. R. Briggs and A. R. McGinley. J Land & Pub Util Econ 17:452-9 N '41

See also

National parks and reserves

Arkansas

Progress in Arkansas land policy. W. J. Coleman. J Land & Pub Util Econ 18:87-90 F '42

Idaho

Summary and recommendations of a preliminary report on the management of state-owned lands in Idaho. 30p Northwest regional council, Portland, Ore. '41

Iowa

Iowa public land disposal. R. L. Lokken. 318p bibliog(p271-304) $3 State historical soc. of Iowa, Iowa City '42

Michigan

Tax reclamation; Michigan rehabilitation plan for delinquent real estate showing results. Business Week p53-4 S 12 '42

United States

Our landed heritage; the public domain, 1776-1936. R. M. Robbins. 450p bibliog(p427-33) $5 Princeton univ. press '42

PUBLIC ledger, Philadelphia. See Philadelphia public ledger

PUBLIC officials

Bureau heads must settle disagreements privately orders FDR. Comm & Fin Chr 156:719 Ag 27 '42

Court upholds right of press to hold public officials to strict accounting. Comm & Fin Chr 155:1263 Mr 26 '42

Dangerous ridicule. Ptr Ink 201:70 O 9 '42

See also

Administration, Public

Government employees

Public health officers

also International association of governmental labor officials

PUBLIC officials—*Continued*

Directories

Dollar-a-year men in WPB and "without compensation" personnel. Business Week p[illegible] Jl 4 '42
Federal and state bureaus and officials concerned with mineral resources: U.S. and Canada. Min & Met 23:128-31 F '42

PUBLIC opinion
Areas of ignorance on world affairs. Fortune [illegible] Ap '42
Day with a Fortune interviewer. il Fortune 24:124 D '41
Educating public opinion for world organization. L. Dolivet. Ann Am Acad 222:84-9 Jl '42
Fortune survey. Published in monthly numbers of Fortune
How railroads rate with public: opinion survey made for the Association of American railroads. Ry Age 113:[illegible]-4 S 5 '42
In the public mind, we compare notes with Canada and check the results against the opinion of America's business and intellectual leaders. Fortune [illegible] '42
Opinion conflict and school support. F. T. Rope. 164p bibliog(p149-53) $2 Teachers college '41
Print, radio, and film in a democracy. D. Waples, ed. 197p bibliog(p185-9) $2 Univ. of Chicago press '42
Public opinion. Spectator (Life ed) 149:54-6 Jl '42
So the blind shall not lead; public opinion research to seek out areas of national ignorance and to make enlightened areas articulate. E. Roper. Fortune 25:102 F '42

See also
Railroads—Public relations
World war, 1939—Public opinion

PUBLIC ownership. See Government ownership

PUBLIC printing. See Printing, Public

PUBLIC relations
Business that has nothing to sell? Manuf Rec 111:36+ Ap '42
Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:60-70 [S] '42
Job for advertising: check constantly on four vital points of contact: with employees, business contacts, customers and the general public. A. J. Mott. Ptr Ink 200:19-20 Ag 28 '42
New public relations billings for advertising agencies. J. L. Williston. Adv & Sell 35: 144-5 F '42
Public relations and industry. M. K. Powers. Adv & Sell 35:70+ O '42
Public relations on an individual basis. M. A. Bills. Special Lib 32:336-9 N '41
So you've won an Army-Navy E? then let's plan the ceremony. R. W. Graham. il Sales Management 51:22-4 O 1 '42

See also
Banks and banking—Public relations
Electric utilities—Public relations
Engineers—Public relations
Gas companies—Public relations
Insurance agents—Public relations
Insurance companies—Public relations
Libraries, Special—Public relations
Public utilities—Public relations
Railroads—Public relations
Trade unions—Public relations
Visitors

PUBLIC schools

See also
School buildings

PUBLIC service

See also
Civil service
Engineers—Public relations
Government employees
Municipal employees
Public officials

PUBLIC service company of Indiana
Annual report. Comm & Fin Chr 155:1416 Ap 6 '42
Bonds offered. Comm & Fin Chr 155:2012 My 25 '42
Bonds registered with SEC. Comm & Fin Chr 154:1270 N 29 '41
SEC gives part approval, but orders changes in plan. Comm & Fin Chr 155:366 Ja 24 '42

PUBLIC service coordinated transport
Income account, 1940 and 1941. Comm & Fin Chr 155:1020 Mr 9 '42

PUBLIC service corporation of New Jersey
Annual report, 33d. Comm & Fin Chr 155: 1018-20 Mr 9 '42
Held to be subsidiary of United corporation; SEC order sustained. Comm & Fin Chr 156:412 Ag 17 '42
Higher earnings. W. T. Hyde, jr. Barron's 22:[illegible] O 26 '42
SEC order denying the company's exemption from the Utility act. O. Ely. Pub Util 28: 823-7 D 18 '41
U.G.I. says P.S. of N.J. is an investment. Elec W 118:1282 O 17 '42

PUBLIC service electric and gas company
Bonds offered. Comm & Fin Chr 155:2188 Je 8 '42
Income account, 1940 and 1941. Comm & Fin Chr 155:1020 Mr 9 '42
To sell $[illegible] bonds. Comm & Fin Chr 155:1416 Ap 6 '42

PUBLIC speaking
Grocer speaks: a handbook of practical business speaking. R. A. Sandberg. 32p Nat. assn. of retail grocers, 360 N. Michigan av, Chicago '41
How to speak effectively: with some simple rules of parliamentary practice. G. E. Peabody. 2d ed 108p $1.25 Wiley '42
On the reading of scientific papers: audience enemies numbers I to VI. E. F. DuBois. Science 95:273-4 Mr 13 '42; Same. Chem & Eng N 20:464-5 Ap 10 '42; Discussion. Science 95:[illegible]-4, 503-4 Ap 10, My 15 '42
Preparation and presentation of technical papers. A. Knapp. Min & Met 23:464 S '42
Public speaker's treasure chest; a compendium of source material to make your speech sparkle. H. V. Prochnow. 413p $3.50 Harper '42
Selected readings in rhetoric and public speaking. L. Thonssen, comp. 324p $3 Wilson, H.W. '42
Speech: forms and principles. A. T. Weaver. 437p $2.75 Longmans '42
Speech teacher and competition. R. Bedichek; F. L. Winship. 131p pa 25c Bur. of public school extracurricular activities, Univ. of Texas, Austin '41

See also
Persuasion (rhetoric)

PUBLIC utilities
Public utilities in the post-war world. A. Haines. Pub Util 30:25-33 Jl 2 '42
Public utility adjustment to postwar conditions. H. M. Langlois. Ann Am Acad 222: 152-5 Jl '42

See also
Air lines
Corporation law
Corporations
Electric railroads
Electric utilities
Gas, Natural—Pipe lines
Gas companies
Motor bus lines
Motor trucks in freight service
Petroleum pipe lines
Public utilities commissions
Public utility districts
Railroads
Railroads and state
Street railroads
Telegraph
Telephone
Water companies
Waterworks

Accidents

Accidents in the utility industry; statistical report. Am Gas J 157:35 S '42

Accounting

Actual application of the reproduction-cost-of-service principle in rate making. J. Jeming. J Land & Pub Util Econ 18:188-203 My '42
Condition-percent tables for depreciation of unit and group properties. R. Winfrey. Iowa Eng Exp Sta (Ames) Bul 156:1-177 '42 (pa 32)
Depreciation problem during war crisis. F. B. Warren. Pub Util 29:149-54 Ja 29 '42

PUBLIC utilities—Accounting—*Continued*

Depreciation problems; relationship to regulated industry. J. A. Walls. Am Soc C E Proc 67:1613-17 N '41

FPC orders 5-year amortization of excess purchase cost over original construction cost. Pub Util 29:563-5 Ap 23 '42

Form of report for Connecticut utilities. J Account 73:458-9 My '42

Original cost, invested capital, depreciation base, and other determinations of old costs. H. A. Horne. J Account 73:251-9 Mr '42

Public utility depreciation practice. H. G. Guthmann. Harvard Business R 20 no 2: 213-22 [Ja] '42

Standby equipment; valuation for rate purposes. F. M. Dannenberg. Pub Util 29:347-53 Mr 12 '42

See also

Electric utilities—Accounting

Gas companies—Accounting

Railroads—Accounting

Waterworks—Accounting

Advertising

Good music for utility programs. Pub Util 30:440-1 S 24 '42

Should the utilities continue advertising and promotional effort? Pub Util 28:706-10 N 20 '41

See also

Electric utilities—Advertising

Appliance selling

See also

Electric utilities—Appliance selling

Gas companies—Appliance selling

Economic theory

Concept of a business affected with a public interest. F. P. Hall. 223p bibliog(p158-9) $4 Principia press, Bloomington, Ind. '40

Price regulation and the public utility concept: Olsen v. Nebraska. F. R. Simpson. J Land & Pub Util Econ 18:223 My '42

Employees

Does the average worker prefer public or private employment? A. M. Cooper. Pub Util 29:811-17 Je 18 '42

Employee shifts during war tough, but interesting. J. H. Collins. Pub Util 30:641-9 N 5 '42

Frequency and duration of disabilities causing absence from work among the employees of a public utility, 1938-41; Boston Edison company. W. M. Gafafer. bibliog Pub Health Rep 57:625-7 Ap 24 '42

Public utilities and unemployment compensation. E. P. Schmidt. J Land & Pub Util Econ 18:97-100 F '42

Studies on the duration of disabling sickness; duration of disability from sickness and nonindustrial injuries among male workers, disabilities lasting one calendar day or longer. W. M. Gafafer and E. S. Frasier. Pub Health Rep 57:1378-84 S 11 '42

Utility employees during booms and depressions. J. H. Collins. Pub Util 29:85-92 Ja 15 '42

Utility unions join; workers of electric and gas companies, 251,000 strong, form new independent and flirt with telephone men. Business Week p81-2 O 31 '42

War, wages, and strikes; possibility that labor disputes may not end during the present emergency. C. E. Troxel. Pub Util 29:201-9 F 12 '42

Who is the labor boss in the publicly owned utilities? A. M. Cooper. Pub Util 28:749-54 D 4 '41

Will the war bring more lady employees? Pub Util 29:374-5 Mr 12 '42

See also

Electric utilities—Employees

Gas companies—Employees

Railroads—Employees

Equipment

Standby equipment; valuation for rate purposes. F. M. Dannenberg. Pub Util 29:347-53 Mr 12 '42

Finance

All utility companies need is a square deal. E. R. Abrams. Pub Util 29:333-41 Mr 12 '42

Asset values of General Gas. O. Ely. Barron's 22:20 My 25 '42

Capital structure control of utility companies by the Securities and exchange commission. E. Troxel. bibliog J Business 15:225-47 Jl '42

Direct approach to the fair return question. P. B. Coffman. Pub Util 30:277-86, 350-8 Ag 27-S 10 '42

Dr Thorp's views on capitalization of earnings. Pub Util 30:431-3 S 24 '42

Federal taxes now almost sole determining factor in utility earnings; security holders should fight new tax threat. Pub Util 29: 499-502 Ap 9 '42

Financial news and comment. O. Ely. Published in bi-weekly numbers of Public utilities fortnightly

Holding company dissolution, public ownership and war. F. J. McDiarmid. Pub Util 30:629-40 N 5 '42

Impact of war on utility rate of return. A. V. Roberts. Pub Util 30:157-61 Jl 30 '42

Importance of the Jacksonville case exaggerated. O. Ely. Pub Util 30:562-3 O 22 '42

Jonesboro's water works, a successful business; supplies electricity, water and sewerage service. L. M. Rebsamen. Am Water Works Assn J 34:1496-1502 O '42

New statistics on quarterly earnings and dividends of large corporations; tables giving annual figures, 1929-1938 and quarterly, 1939-1941. Fed Res Bul 28:214-17, 248 Mr '42 [cont monthly]

Public utility financing in the third quarter of 1941. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 17:503-5 N '41

Public utility financing in the fourth quarter of 1941 and a summary of the year, 1941. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 18:106-13 F '42

Public utility financing in the first quarter of 1942. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 18:226-8 My '42

Public utility financing in the second quarter of 1942. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 18:372-3 Ag '42

Utilities have developed rate structure rendering them virtually depression-proof. W. T. Hyde, jr. Comm & Fin Chr 154:1314+ D 4 '41

Utility construction expenditures 1921-42 and source of funds; chart. Pub Util 30:105 Jl 16 '42

What the public utilities will find in inflation; how they can protect themselves from certain post-war conditions. K. Kauffmann-Grinstead. Pub Util 29:267-75 F 26 '42

What values exist in holding company securities? F. J. McDiarmid. Pub Util 28:806-12; 29:21-9 D 18 '41, Ja 1 '42

See also

Holding companies

Public utilities—Regulation

Public utilities—Securities

also Associated gas and electric system; Consolidated Edison company of New York

Government ownership

See Government ownership; Municipal ownership

Insurance requirements

War damage and insurance. T. N. Sandifer. Pub Util 29:409-17 Mr 26 '42

Law

Committee reports of the ABA utility section. Pub Util 30:572-7 O 22 '42

Florida court upholds SEC death sentence. Comm & Fin Chr 156:1351 O 15 '42

PUBLIC utilities—Law—*Continued*

Has the Supreme court torpedoed Smyth v. Ames? decision of the U.S. Supreme court in Natural gas pipeline company v. Federal power commission. Pub Util 29:505-8 Ap 9 '42

Men at work vs. onlookers; accident in laying water pipe. L. Childs. Water Works & Sewerage 88:570 D '41

Public utilities reports. Published in bi-weekly numbers of Public utilities fortnightly

See also
Corporation law
Holding companies—Laws and regulations
Public utilities—Regulation
Public utilities commissions
Railroad law

also American bar association—Public utility law section

Libraries

See also
Gas companies—Libraries

Management

Making the war work for utilities. M. R. Kynaston. Pub Util 29:465-76 Ap 9 '42

See also
Meter reading

Municipal ownership

See Electric utilities—Municipal ownership; Municipal ownership; Waterworks—Municipal ownership

Protection

Bibliography

Bibliography on national defense and air raid precautions for public utilities. L. Hilt, comp. Am Gas Assn Mo 23:283-6; 24:46-7 Jl-Ag '41, F '42

Public relations

Cooperation needed in Holding company act administration. G. W. Cadmus. Pub Util [illegible] Mr 26 '42

See also
Electric utilities—Public relations
Gas companies—Public relations
Railroads—Public relations

Rates

Actual application of the reproduction-cost-of-service principle in rate making. J. Jeming. J Land & Pub Util Econ 18:188-[illegible] My '42

Assured security profit as a short cut for rate making. F. Warren. Pub Util 30:344-9 S 10 '42

Fair value must still support the rate base. E. L. Taylor. Pub Util 29:554-5 Ap 23 '42

Has the Supreme court torpedoed Smyth v. Ames? decision of the U.S. Supreme court in Natural gas pipeline company v. Federal power commission. Pub Util 29:505-8 Ap 9 '42

How Supreme court decision may affect utility rates. Barron's 22:12 Mr 30 '42

How will the OPA fix gas and other utility rates? F. X. Welch. Pub Util 30:465-77 O 8 '42

Implications of the case of FPC v. Natural gas pipeline company; judicial review theory. W. E. Tucker. Pub Util 30:604-11 O 22 '42

Implications of the Natural gas pipeline company of America decision. G. Slaff. Pub Util 30:611-18 O 22 '42

New concept of rate regulation. G. E. Doying, jr. Elec W 118:1104 O 3 '42

New regulation concepts urged by court minority; three opinions issue from natural gas case upholding 6½ percent return and elements of rate base. Elec W [illegible] Mr 21 '42

Public utility regulation: a new chapter; decision of Supreme court in Federal power commission v. Natural gas pipeline co. R. W. Harbeson. bibliog Harvard Business R 20 no 4:496-507 [Jl] '42

Should utility rates be frozen? F. B. Warren. Pub Util 30:94-7 Jl 16 '42

Supreme court sets new precedent for rate regulation and valuation work. Eng N [illegible] Mr 26 '42

United States Supreme court redeems itself; Natural gas pipeline company case. M. G. Glaeser. J Land & Pub Util Econ 18:146-54 My '42

Utilities barred by FPC from shifting war tax increases to consumers. Comm & Fin Chr 156:1187 O 1 '42

Utility rate problems arising from recent and prospective income tax legislation. H. J. O'Leary. J Land & Pub Util Econ 18:184-7 My '42

Utility rate regulation under the new anti-inflation legislation. Pub Util 30:568-72 O 22 '42

Wartime control of public utilities. A. E. K. Bunnell. Am Water Works Assn J 34:823-8 Je '42; Same cond. Water & Sewage 80:44, 110+ Ap '42

Washington plan trembles in the balance. Pub Util 30:373-6 S 10 '42

Where does OPA stand on utility rate freezing? H. R. Booth. Pub Util 30:162-5 Jl 30 '42

See also
Electric rates
Gas rates
Railroads—Rates
Water rates

Regulation

All utility companies need is a square deal. E. R. Abrams. Pub Util 29:333-41 Mr 12 '42

Are we headed for socialism in the post-war period? H. A. Hanning. Pub Util 28:667-74 N 20 '41

Assured security profit as a short cut for rate making. F. Warren. Pub Util 30:344-9 S 10 '42

Can the war defense agencies operate industry? Pub Util 29:370-4 Mr 12 '42

Capital structure control of utility companies by the Securities and exchange commission. E. Troxel. bibliog J Business 15:225-47 Jl '42

Civilian utility operations under war-time regulations. Pub Util 29:40-5 Ja 1 '42

Direct approach to the fair return question. P. B. Coffman. Pub Util 30:277-86, 350-8 Ag 27-S 10 '42

Economics of public utility regulation. I. R. Barnes. 852p bibliog(p[illegible]) $5 Crofts '42

Impact of war on utility rate of return. A. V. Roberts. Pub Util 30:157-61 Jl 30 '42

Implications of the case of FPC v. Natural gas pipeline company; judicial review theory. W. E. Tucker. Pub Util 30:604-11 O 22 '42

Implications of the Natural gas pipeline company of America decision. G. Slaff. Pub Util 30:611-18 O 22 '42

International control over European utilities? T. H. Minshall. Pub Util 30:292-5 Ag 27 '42

Introductory outline to public utility regulation. J. S. Worley. 117p John S. Worley, Univ. of Michigan, Ann Arbor '41

New approach to regulation; abstract. W. J. Herring. Pub Util [illegible] Jl 30 '42

Policing of European peace through utility control; why not a post-war international peace tribunal in Switzerland subject to Allied supervision? T. H. Minshall. Pub Util [illegible] S 10 '42

Public utility regulation: a new chapter; decision of Supreme court in Federal power commission v. Natural gas pipeline co. R. W. Harbeson. bibliog Harvard Business R 20 no 4:496-507 [Jl] '42

Recent developments in service company regulations; decision of Securities and exchange commission in New England power service company case. W. F. Kennedy. J Land & Pub Util Econ 18:[illegible]-2 F '42

Should the state commissions help ration utility service? F. X. Welch. Pub Util 29:477-89 Ap 9 '42

PUBLIC utilities—Regulation—*Continued*

United States Supreme court redeems itself; Natural gas pipeline company case. M. G. Glaeser. J Land & Pub Util Econ 18:146-54 My '42

Utilities after Pearl Harbor. T. N. Sandifer. Pub Util 29:210-15 F 12 '42

See also

Gas, Natural—Laws and regulations
Public utilities—Law
Public utilities—Rates
Public utilities commissions
Securities and exchange commission

also Jacksonville gas company

Reports

FPC monthly financial reports may prove valuable. Pub Util 29:502-3 Ap 9 '42

Securities

Application of the bond tests adopted by New York state bankers' association. Comm & Fin Chr 155:841 F 26 '42

Bondholder's guide. Published in Barron's

Direct sale of utility securities to the public. O. Ely. Pub Util 28:759 D 4 '41

Don't sell your utilities if you are holding the right kind. F. C. Fullerton. il Mag of Wall St 69:139-41+ N 15 '41

Interim earnings per share etc. Pub Util 29:37 Ja 1 '42 [cont monthly]

Outlook for public utilities in our war economy. F. C. Fullerton. Mag of Wall St 70:284-7+ Je 27 '42

Position of utility stocks. Mag of Wall St 69:437 Ja 24 '42

Public utility financing in the third quarter of 1941. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 17:503-5 N '41

Public utility financing in the fourth quarter of 1941 and a summary of the year, 1941. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 18:106-13 F '42

Public utility financing in the first quarter of 1942. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 18:226-8 My '42

Public utility financing in the second quarter of 1942. R. G. Dudley and W. H. Evans. J Land & Pub Util Econ 18:372-3 Ag '42

Public utility preferred stocks with profit possibilities. Mag of Wall St 71:35 O 17 '42

SEC utility analysis. Comm & Fin Chr 155:1132 Mr 19 '42

Selected utilities for income investors. F. C. Fullerton. Mag of Wall St 70:606-7+ S 19 '42

Those underpriced utility stocks. F. J. McDiarmid. Pub Util 29:597-608 My 7 '42

Utilities face mounting tax threat; position of leading stocks. Mag of Wall St 70:396-7+ Jl 25 '42

Utility securities hard hit by proposed tax rates: maximum rate 88 ¾ per cent. O. Ely. Pub Util 29:430-3 Mr 26 '42

What utilities can earn under the new tax law; brief sketches of 14 companies. W. Andrews. Barron's 22:18 N 2 '42

See also

Holding companies—Securities

Service companies

See also

Electric utilities—Service companies
Holding companies

Statistics

Public utilities. Survey of Cur Business 22:38-44 F '42

Taxation

Case for taxation of publicly owned utilities. K. C. Christensen. Pub Util 30:540-6 O 22 '42

Federal taxes now almost sole determining factor in utility earnings; security holders should fight new tax threat. Pub Util 29:499-502 Ap 9 '42

Heavier federal taxes menace to utilities. C. W. Kellogg. Comm & Fin Chr 155:1870 My 14 '42

Tax bill endangers private utilities companies. T. N. McCarter. Comm & Fin Chr 156:817 S 3 '42

Uneven burden of utility taxes; companies with heaviest funded debt are in best position. E. R. Abrams. Barron's 22:18 Ap 13 '42; Correction. 22:18 My 11 '42

Utilities barred by FPC from shifting war tax increases to consumers. Comm & Fin Chr 156:1187 O 1 '42

Utility rate problems arising from recent and prospective income tax legislation. H. J. O'Leary. J Land & Pub Util Econ 18:184-7 My '42

Utility securities hard hit by proposed tax rates; maximum rate 88 ¾ per cent. O. Ely. Pub Util 29:430-3 Mr 26 '42

What utilities can earn under the new tax law. W. Andrews. Barron's 22:18 N 2 '42

See also

Electric utilities—Taxation

Valuation

Condition-percent tables for depreciation of unit and group properties. R. Winfrey. Iowa Eng Exp Sta (Ames) Bul 156:1-177 '42 (pa $3)

Depreciation and capital replenishment. F. M. Dannenberg. J Account 73:340-3 Ap '42

Depreciation of group properties. R. Winfrey. diags Iowa Eng Exp Sta (Ames) Bul 155:1-131 '42

Depreciation problem during war crisis. F. B. Warren. Pub Util 29:149-54 Ja 29 '42

Fair value must still support the rate base. E. L. Taylor. Pub Util 29:554-5 Ap 23 '42

How Supreme court decision may affect utility rates. Barron's 22:12 Mr 30 '42

Original cost, invested capital, depreciation base, and other determinations of old costs. H. A. Horne. J Account 73:251-9 Mr '42

Relative value of utility systems, 1913-1941. C. F. Lambert. Eng N 128:678-9 Ap 23 '42

Standby equipment; valuation for rate purposes. F. M. Dannenberg. Pub Util 29:347-53 Mr 12 '42

Streamlining the utility valuation process during the emergency. C. A. Mees. Pub Util 29:609-22 My 7 '42

Supreme court sets new precedent for rate regulation and valuation work. Eng N 128:488-9 Mr 26 '42

See also

Depreciation
Public utilities—Rates

War problems

Organize to aid utility disaster repair; Constructors' association of western Pennsylvania. Eng N 128:889 My 28 '42

Public utilities and the war effort; symposium. C. W. Kellogg and others. Pub Util 30:3-8 Jl 2 '42

What can American utilities learn from British war experience? D. M. DeBard. map Pub Util 29:531-40 Ap 23 '42

When the blackout comes; repairs to utilities and the OCD scheme. H. Corey. Pub Util 30:18-24 Jl 2 '42

Alaska

Hand of Ickes in Alaska. L. C. Mann. Pub Util 28:731-41 D 4 '41

Canada

All utilities share in Canadian war effort; Public utilities wartime workshop board. J. K. Wilson. il Elec W 118:281-2 Jl 25 '42

Wartime control of public utilities. A. E. K. Bunnell. Am Water Works Assn J 34:823-8 Je '42; Same cond. Water & Sewage 80:44, 110+ Ap '42

Connecticut

Form of report for Connecticut utilities. J Account 73:458-9 My '42

Cuba

Good neighbor policy succeeds in Cuba. L. C. Mann. Pub Util 29:737-44 Je 4 '42

PUBLIC utilities—*Continued*

Europe

International control over European utilities? T. H. Minshall. Pub Util 30:292-5 Ag 27 '42

Policing of European peace through utility control; why not a post-war international peace tribunal in Switzerland, subject to Allied supervision? T. H. Minshall. Pub Util 30:340-3 S 10 '42

Germany

War-time utilities at home and abroad. F. X. Welch. Pub Util 30:9-17 Jl 2 '42

Great Britain

Britain guards and rations her utility services. J. N. Waite. Pub Util 30:201-7 Ag 13 '42

Municipal trading. Economist 143:380-1 S 26 '42

Post-war planning; public utilities' views. Elec R (Lond) 130:305-6 Mr 6 '42

Public utilities; annual meeting of Conjoint conference. Elec R (Lond) 130:177-8 F 6 '42

What can American utilities learn from British war experience? D. M. DeBard. map Pub Util 29:531-40 Ap 23 '42

United States

New order comes to Middletown. H. Corey. Pub Util 29:541-8 Ap 23 '42

Outlook for public utilities in our war economy. F. C. Fullerton. Mag of Wall St 70:284-7+ Je 27 '42

Public utilities. Survey of Cur Business 22:38-44 F '42

Relation of price control to the utilities. T. N. Sandifer. Pub Util 28:682-7 N 20 '41

Shifting priority policies and the utilities. Pub Util 28:765-9 D 4 '41

Utilities feeling the war strain. Pub Util 29:638-42 My 7 '42

War-time utilities at home and abroad. F. X. Welch. Pub Util 30:9-17 Jl 2 '42

What's ahead for utilities, 1942? F. X. Welch. Pub Util 29:69-78 Ja 15 '42

You couldn't believe it; but we are at war and no one knows what will be asked of the utilities in 1943. H. Corey. Pub Util 29:418-24 Mr 26 '42

PUBLIC utilities advertising association

Annual meeting, New York, June 22-24. Elec W 117:2229-30 Je 27 '42; Am Gas Assn Mo 24:269 Jl-Ag '42; Gas Age 90:21-2+ Jl 30 '42

PUBLIC utilities commissions

California commission breaks ground on utility rationing regulation. Pub Util 29:306-13 F 26 '42

Should appearances before state commissions be restricted? Pub Util 28:834-6 D 18 '41

Should the state commissions help ration utility service? F. X. Welch. Pub Util 29:477-89 Ap 9 '42

PUBLIC utility concept. See Public utilities—Economic theory

PUBLIC utility districts

Management problems of a municipal utility district. J. S. Longwell. Am Water Works Assn J 33:1897-1910 N '41

PUBLIC welfare

Community activities in public housing projects. Monthly Labor R 54:100-3 Ja '42

State becomes a social worker; an administrative interpretation. A. W. James. 368p $3 Garrett & Massie, Richmond, Va. '42

See also

Child welfare
Hospitals
Public health
Safety movement
Social laws and legislation
Social work

PUBLIC welfare departments

Accounting

What constitutes an adequate accounting system for a public welfare agency? J. O. Peavey. J Account 74:433-9 N '42

PUBLIC work reserve

Functions of the Public work reserve. A. D. Morrell. Civil Eng 12:177-8 Ap '42

Public work reserve becomes local plan unit in shakeup. Eng N 128:525 Ap 9 '42

PUBLIC works

Changes in public works administration due to war time; abstract. N. L. Nussbaumer. Water Works & Sewerage 89:315-16 Jl '42

Construction reports. Published in weekly numbers of Engineering news-record

Contractors on public work benefited by legal decisions; Callahan and Hirsch cases. G. R. Shields. Eng N 128:201-3 Ja 29 '42

Geologist in public works. C. P. Berkey. Geol Soc Bul 55:513-31 Ap '42

Importance of surveys and maps in public work programs; part the WPA has played. M. Y. Poling. il Civil Eng 12:385-8 Jl '42

Municipal public works administration. rev ed loose-leaf $7.50 Inst. for training in municipal administration, Chicago '41

Municipal public works construction; planning for normal as well as for post-war periods. A. C. Everham. il Civil Eng 12:266-8 My '42

Public works engineers' yearbook, 1942; including the proceedings of the 1941 Public works congress, New Orleans, Oct. 26-29, 1941. 387p $3.50 Am. public works assn, 1313 E. 60th st, Chicago '42

Safeguarding civilian and army morale; community facilities needed in defense areas. P. V. McNutt. Arch Rec 90:42-3 D '41

State of the public works and public property of the borough of Princeton, N.J.; excerpts from report to the Mayor and Council. I. R. Riker. il Pub Works 73:20-2 Ag '42

See also

Aqueducts
Bridges
Contracts, Government
Flood control
Highway departments
Irrigation
Municipal engineering
Municipal improvement
Pavements
Public buildings
Refuse disposal
Rivers—Regulation
Roads
Sewage disposal
Sewerage
Streets
Waterworks

also Central Valley project, California

Accounting

Depreciation problems; relationship to public works and government finance. R. W. Crum and R. Winfrey. Am Soc C E Proc 67:1631-7 N '41

Economic aspects

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Post defense public works; abstract. F. W. Herring. Eng N 127:743-4 N 20 '41

Public works, economic stabilization and the rural South. J. V. Van Sickle. 33p bibliog(p33) pa 25c Vanderbilt univ. press, Nashville, Tenn. '42

Public works in a post-war program. F. W. Herring. il Civil Eng 12:368-71 Jl '42

Federal loans and grants

How defense public works funds have been allocated. Eng N 127:769 N 27 '41

Problems in defense areas; abstract. F. E. Schnepfe. Eng N 127:743 N 20 '41

See also

Railroads—Federal loans

Finance

President's budget message outlines cut in non-defense public works. Eng N 128:60 Ja 8 '42

Public works programming in relation to post-emergency problem. W. S. Parker. N E Water Works Assn J 56:192-9; Discussion. F. A. Barbour. 199-201 Je '42

Argentina

Public works program involves expenditure of about 4,000,000,000 pesos. For Comm W 9:12 O 31 '42

PUBLIC works—*Continued*

California

Public works program in postwar southern California. R. B. Pettengill. Ann Am Acad 222:156-61 Jl '42

Latin America

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Louisiana

Activities and functions of engineering, planning, housing and aeronautics in Louisiana, from Jan. 1, 1940 to Dec. 31, 1941. 309p State dept. of public works, Baton Rouge, La. '41

Mexico

Construction hits new high in Mexico. A. N. Carter. il Eng N 128:610-14 Ap 23 '42

Paraguay

Government authorizes Bank of Republic to open credit for public works. For Comm W 7:12 Ap 11 '42

United States

Action on the municipal front. E. J. Cleary. il Eng N 128:94-6 Ja 15 '42

Headline projects of 1941. il Eng N 128:120-34 Ja 15 '42

Post-war planning; public works. F. W. Herring. Eng N 128:115-18 Ja 15 '42

Postwar works; President's proposed reservoir of projects. Business Week p28-30 D 27 '41

War emergency as it affects public works. Pub Works 73:32+ Ap '42 [cont monthly]

See also
Federal works agency
Public work reserve

PUBLIC works association, American. See American public works association

PUBLICITY

Advertising by the states. J. B. Clegg, comp. rev ed 36p pa $1 Council of state governments, Chicago '41

Aims and functions of publicity (cont). Gas J (Lond) 236:456-7 D 24 '41

How editors want new product publicity items prepared. A. N. Gregg. Ind Marketing 27:30-1+ Mr '42

Publicity and sales efforts more vital now than ever. il Ry Age 111:874-8 N 22 '41

Publicity; how to plan, produce and place it. H. M. Baus. 252p $3 Harper '42

Publicity is broccoli. C. Hope. 264p $2 Bobbs '41

Working with the press; abstract. Y. C. Cline. Management R 31:120-2 Ap '42

See also
Advertising
Church publicity
Government publicity

PUBLISHERS

See also
Benn brothers, limited

Directories

Directory of publishers from the Cumulative book index, 1941. p1379-1409 pa 50c Wilson, H.W. '42

Literary market place, 1942. J. K. Hanrahan, ed. 2d ed rev & enl 87p pa $1.25 R. R. Bowker co, New York '42

PUBLISHING

Close coöperation with graphic arts pledged by the O.P.M. G. A. Renard. Inland Ptr 108:29-32 Ja '42

Medical book publishers restrained by F.T.C.; other cases. Ptr Ink 197:69 D 19 '41

Personal recollections; sixty years of book publishing. J. B. Pratt. 67p $1 A. S. Barnes & co, New York '42

Wide margins; a publisher's autobiography. G. P. Putnam. 351p $3 Harcourt '42

See also
Book industry and trade
Copyright
Merrymount press
Newspapers
Periodicals
Printing
Printing trade—Finance
Strawberry Hill press
University presses

Yearbooks

Seventh annual advertising and publishing production yearbook. 468p bibliog(p319-26) $5 Colton press, 114 E. 32d st, New York '41

PUBLISHING buildings

See also
Newspaper offices

PUEBLO Indians

Further data on the cultivation of tobacco among the Pueblo Indians. L. A. White. Science 96:59-60 Jl 17 '42

PUERTO RICO

Puerto Ricans. R. Pattee. Ann Am Acad 223:49-54 S '42

Puerto Rico: the next state. B. Pagan. 108p Bolivar Pagan, Resident commissioner of Puerto Rico to the U.S, Washington, D.C. '42

See also
Electric utilities—Puerto Rico
Fisheries—Puerto Rico
Manufactures—Puerto Rico
Motor bus lines—Puerto Rico
Sugar industry and trade—Puerto Rico

Industries and resources

Ten leading industries of Puerto Rico, basis, 1939; chart. For Comm W 5:27 D 20 '41

PUGET SOUND power and light company

Amended plan filed with SEC; sale of bonds and debentures proposed. Comm & Fin Chr 156:1509 O 26 '42

Bonneville authority seeks tax exemption to purchase properties. Comm & Fin Chr 156:1613 N 2 '42

SEC gets testimony on valuation. Comm & Fin Chr 156:85 Jl 6 '42

PULEGONE

Cannabis indica; the isolation of 3′ : 4′ : 5′ : 6′-tetrahydrodibenzopyran derivatives from pulegone-orcinol and pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

PULLEYS

Adjustable screws increase belt life. M. Khalos. il Am Mach 86:773 Jl 23 '42

Drill at assembly; drilling machine for assembling Reeves variable speed pulleys. il diag Am Mach 85:1141 N 12 '41

Keep your belt driven machines running. J. R. Hopkins. il diags tables Power Pl Eng 46:59-61 Ag '42; Same cond. Concrete (mill sec) 50:189-90 Je '42; Same. Coal Age 47:78-9 Je '42; Same. Comp Air M 47:6821-2 Ag '42; Same. Paper Ind 24:368-9 Jl '42

This firm cut power costs 60% by installing a large pulley; Standard clay products. il Brick & Clay Rec 100:42 Ja '42

See also
Belting

PULLMAN, incorporated

Annual report for 1941. Ry Age 112:662-3 Mr 28 '42

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:600 S 19 '42

Demands anti-trust action brought to trial. D. A. Crawford. Comm & Fin Chr 155:2012 My 25 '42

Pullman tax status. H. Lawrence. Barron's 22:20 Ag 17 '42

Pullman trial at Philadelphia; federal government's anti-trust suit. Ry Age 111:752+, 889+; 112:1129-31, 1152-5, 1216-17, 1250-1; 113:32+ N 8, 22 '41, Je 6-Jl 4 '42

Railroad sleepers held impractical. Ry Age 111:802+ N 15 '41

Thumbnail stock appraisal. Mag of Wall St 71:84 O 31 '42

PULLMAN cars. See Sleeping cars

PULLMAN company

Hearing on Pullman rate application. Ry Age 112:418-19 F 21 '42

Pullman rate rise. Business Week p32 Mr [illegible] '42

Pullman suggestion plan brings 25,900 new ideas. Ry Age 112:[illegible] Ap [illegible] '42

Seasonal variation in Pullman revenue. Ry Age 111:[illegible] D [illegible] '41

Thousands of employee ideas increase operating efficiency; suggestion plan. E. S. Taylor. il Factory Management 100:106-8 O '42

PULPSTONES

Case studies of various pulpstone dressings; illustrations. Paper Ind 24:[illegible] O '42

Forty years progress in pulp stones and burrs. D. E. Dupuis. Pulp & Pa of Can 43:578-81 Jl '42

Pulp-stone structure; abstract. H. Pellinen. Paper Ind 24:97 Ap '42

PULPWOOD. See Wood pulp

PULVERIZED coal. See Boilers—Pulverized coal firing; Coal, Pulverized

PULVERIZED stone. See Stone, Crushed

PULVERIZERS

Adapting automatic combustion control to the characteristics of pulverizers. W. H. Pugsley. Blast F & Steel Pl 30:895-8 Ag '42

Automatic control for grinding machine feed motors. il diag Electronics 15:62 N '42

Fine grinding and stone-dusting. il diags Mech Handling [illegible] F '42

New high pressure boilers in South Wales; pulverizing equipment. H. V. Pugh. diags Mech Handling [illegible] N '41

Pulverisers: patent specification. diags Mech Handling [illegible] F '42

Reducing grinding costs; new developments in pulverizers and crushers. il Rock Prod [illegible] Ja '42

See also
Ball mills
Crushing machinery

PULVERIZING

See also
Coal, Pulverized—Preparation
Crushing

PUMPING

Basic considerations of refinery pumping. R. G. Lovell. diags Pet Eng 13:61, 64, 66+ Je '42

Emergency water supply pumping with fire engines; drought relief in Hudson, N.Y. J. M. Wardle. il plan Pub Works 73:14-16 Ag '42

Navy graving dock built offshore in the dry; dredging, wells, pumps, etc used to dewater site. E. C. Seibert. il diag Eng N 127:871-4 D 18 '41

Pumping problems in the paper industry. M. L. Edwards. diag Power Pl Eng 46:[illegible] Ap '42

South District filtration project, Chicago; lifting water from the lake. il Eng N 128:[illegible] Je 18 '42

See also
Mine pumping
Petroleum—Pumping
Pumping stations
Pumps
Sewage pumping

Tables, calculations, etc.

Calculation of load and stroke in oil-well pump rods. B. F. Langer and E. H. Lamberger. diags Oil & Gas J 41:27-30+ Jl 2; 26, 28, 30+ Jl 9 '42

Determining operating points of centrifugal pumps working on pipe lines. A. J. Stepanoff. Oil & Gas J 40:45-6, 48-9+ D 4 '41

Dollar value of higher efficiencies. W. F. Schaphorst. chart Paper Ind 24:502 Ag '42; Same. Water Works & Sewerage 89:406 S '42

How to calculate temperature rise in high-pressure pumps. T. Baumeister. Power 86:366-7 My '42

How to figure tricky pump heads. F. Kristal. il Power 86:23 Ja '42

Power, capacity and efficiency of pumps. W. F. Schaphorst. chart Rock Prod 45:30 S '42

Terminology

Terminology in pumping. Water Works & Sewerage 89:sup54 Je '42

PUMPING machinery

Automatic discharge from salt-water pits in the east Texas field. il Oil & Gas J 41:42 Ag 13 '42

Automatic fire protection; pump driven by a Diesel engine. C. P. Molyneaux. il Diesel Power 20:[illegible] O '42

New special duty pump units developed for small plants and towns. il Water Works & Sewerage 89:insert 125 Je '42

Portable petrol-engine driven pumping set. il Engineering 152:427 N 28 '41

Pumping equipment for oil-well cementing. W. D. Owsley. il diags Mech Eng 64:[illegible] My '42

Small-plant performance can be bettered, even in wartime; how efficiency and output of U.S. dredge Savannah were boosted. J. S. Kernachan. il diags Power 86:[illegible]-40 Ap '42

See also
Oil pumps
Petroleum—Pumping
Petroleum pipe lines—Pumping stations
Pumping stations
Pumps
Vacuum pumps

Control

Methods used for dealing with synchronizing pump troubles. il diag Oil & Gas J 41:[illegible]-4 S 24 '42

Suction and discharge control of products pipe line. J. W. Boyd. diag Oil & Gas J 41:36 S 24 '42

Lubrication

Proper oil prolongs life of pumping unit speed reducer. K. N. Mills. il diag Oil & Gas J 40:[illegible]+ Ap 30 '42

Manufacture

Welding design saves steel; oil pumping machinery. A. F. Davis. il Welding J 21:267-9 Ap '42

Noise

Ridding the distribution system of pumping station noises. S. M. Dunn. Am Water Works Assn J 34:221-8 F '42

Testing

Oil-well pumping tests. H. E. Drake and E. H. Lamberger. il diags Oil & Gas J 40:43-4, 46, 48 My 7 '42

PUMPING machinery, Electric

Adjustable-varying-speed direct-connected drive for large boiler feed pumps. A. E. Beardmore. il Gen Elec R 45:[illegible] Mr '42

Adjusting speed to suit load insures efficient operation. A. F. Hartung. il Power 86:780-81 N '42

Blueprint for conserving time and materials on pipe-line systems; recommendation for substations, motors, and switchgear. H. E. Drake. il diags Pet Eng 13:[illegible] Mr '42

Computing horsepower from revolving watt-hour meters. Water Works & Sewerage 89:sup[illegible] Je '42

Co-ordinating electric pipe-line pumping equipment. W. G. Taylor. il Pet Eng 13:104+ Mr '42

Defense line station design. W. H. Stueve. map Oil & Gas J 40:44+ Mr 12 '42

Economic use of electric power in petroleum production. W. H. Stueve. Oil & Gas J 40:36 Ap [illegible] '42

Electrical features of design and operation of the Plantation pipe line. M. A. Hyde and H. B. [illegible]. il diags Elec Eng 61:Trans [illegible]-44 S '42

Electrification of pipe lines carrying crude products. W. H. Stueve. Oil & Gas J 41:59 My 21 '42

Hams and Hoffman, seagoing dredges. il diag plans Marine Eng 47:[illegible]-24 Ag '42

Individual well electric jacks; abstract. H. G. Murphy. Oil & Gas J 40:50 Ap 16 '42

PUMPING machinery, Electric—*Continued*

Maintaining efficiency of motor-driven centrifugal pumps. L. V. Schuerholz. Am Water Works Assn J 34:229-33; Discussion. S. E. Kappe. 233-6 F '42

Motors for power-plant pumps meet special requirements. K. M. Patterson. il Power 86:714-16 O '42

New type secondary recovery in Dupo, Illinois, field; electrical centrifugal pump installed. V. Kotschoubey. il map Oil & Gas J 40:39-40 Mr 5 '42

Noiseless and bombproof booster pumps. plan Power Pl Eng 46:114-15 My '42

Operation of electric centrifugal producing pumps in parallel. W. H. Stueve. diag Oil & Gas J 40:36 F 12 '42

Operation of electrical centrifugal stations. P. Reed. il Oil & Gas J 40:42 Ja 8 '42

Power records aid operations. W. H. Stueve. Oil & Gas J 41:33 S 3 '42

Pumping load; opportunities which rural areas offer the electrical industry. Electrician 128:35 Ja 16 '42

Quick motor change prevents water shortage; Arizona irrigation district. J. C. Redd. il Power 85:922 D '41

Remodeling pumping equipment returns investment quickly. Oil & Gas J 41:51 N 5 '42

Running water clinic: defense aims. Elec West 88:83 F '42

Safeguarding a bilge pump. P. C. Ziemke. diag Power Pl Eng 46:115 My '42

Simple method of evaluation of pump bids and determination of power costs. C. I. Dodd. Water Works & Sewerage 88:548 D '41

South District filtration project, Chicago; lifting water from the lake. il Eng N 128:1006-7 Je 18 '42

Station operation departs from many customary practices. M. A. Hyde. il diag Oil & Gas J 41:155-6+ S 24 '42

Vertical turbine pumps adapted to high-head water works; Newport, Ky. J. G. Davis. il diags Power 86:813-15 N '42

See also
Pumping stations—
Power

Control

Duplex pump control spells flexible operation. W. H. Costello. il diags Power 86:499-501 Jl '42

Know your pump-motor controls. H. W. Costello. il diags Power 86:7-9 Ja '42

Plantation pipe line pumping stations feature automatic control. Pet Eng 13:147 My '42

Testing

Performance tests of large pumping plant; Lousiville (Ky.) sewage pumping station. C. F. Johnson. il diag plan Civil Eng 11:703-6 D '41

PUMPING machinery, Portable

Portable petrol-driven pumping set; Pygmylyte. il Engineer 173:356 Ap 24 '42

PUMPING stations

Best of water supplies presents problems; pumping plant at Muscogee. H. M. Rogers. diags plan Rayon 22:740-2 D '41

Efficiency maintenance in Chicago pumping stations. F. J. McDonough, P. Lippert and J. M. Veggeberg. Am Water Works Assn J 34:1405-14 S '42

Engineering and economic problems involved in a small waterworks system, Port Lambton, Ont. G. A. Macdonald. plans Water & Sewage 80:20-1+ O '42

New water supply system of Muskegon Heights, Michigan. G. F. Liddle. il Pub Works 73:16-18 My '42

Pumping stations can be attractive. il Eng N 129:260-1 Ag 20 '42

Pumping stations in the blitz; water service in wartime London. H. Berry. Am Water Works Assn J 34:1689-91 N '42

Rehabilitation of the Philadelphia water works. S. M. Van Loan. Am Water Works Assn J 34:107-14; Discussion. N. B. Jacobs. 114-16 Ja '42

See also
Petroleum pipe lines
—Pumping stations

Cost

Mill Creek pumping station, Cincinnati; unit prices. Eng N 127:822 D 4 '41

Equipment

Eliminating surge troubles on pump discharge lines. D. M. Radcliffe. diags Water Works & Sewerage 89:sup55-6 Je '42

Modern trends in pumping-station equipment. N. G. McDonald. il diag Water & Sewage 80:35-9, 67-8, 71-2, 75-6 Ap '42; Same abr. Am Water Works Assn J 34:1241-60 Ag '42; Abstract. Water Works & Sewerage 89:257-9 Je '42

900-ft conveyor handles three coal-moving jobs. W. G. Hudson. il diag plans Power 86:243-5 Ap '42

Vertical turbine pumps adapted to high-head water works; Newport, Ky. J. G. Davis. il diags Power 86:813-15 N '42

See also
Pumping machinery
Pumps
Water level indicators

Heating and ventilation

Electric heat solves problem at pumping station. il Water Works & Sewerage 89:127 Mr '42

Power

Diesel pumping plant at Buzzard's Bay. F. A. Westbrook. il Power Pl Eng 46:55-6 Je '42

Power for Toledo's new Lake Erie pumping station. E. M. Wilgus. il diag Diesel Power 20:34-40 Ja '42

Pumping plant combines utility and beauty; Sea Cliff, N.Y. il Diesel Power 20:31-3 Ja '42

PUMPS

Aircraft hydraulic pumps. H. J. Marx and E. M. Greer. il diags Aviation 40:60-1+ N '41; 41:96-7+ Ja '42

Controlling apparatus to eliminate waste of water in using the ordinary filter pump. F. E. Holmes. diag Ind & Eng Chem Anal ed 13:759-60 N 15 '41

Cues for pump care. W. T. Quimby. il Power Pl Eng 46:92-3 S '42

Emergency threading of pump deckplate. E. Wittmann. diags Power 86:812 N '42

Fitting packing on a pump piston. A. Gray. diags Power 86:585 Ag '42

Grand Coulee pumps; abstract. R. V. Terry and F. E. Jaski. Power 85:976 Mid-D '41

Hydraulic characteristics of the fixed-blade and adjustable-blade propeller-type pumps; abstract. J. D. Scoville. diag Power 85:975-6 Mid-D '41

Hydraulic leakage can be controlled. C. E. Grosser. diags Machine Design 14:70-3 Ag '42

Hydraulic plant in steel works. R. Yeadon. diags Blast F & Steel Pl 30:1003-9 S '42

Lincoln heavy liquid pump. il Blast F & Steel Pl 30:693+ Je '42

Long vs. short pump suction lines. C. T. Baker. Power Pl Eng 46:74-5 Je '42

Mechanical developments in pulp bleaching. E. V. Ullman. il diags Pulp & Pa of Can (Convention no) 43:118-28 [F] '42

Modern mills served by better pumps; forty years of progress. E. B. Wardle. Pulp & Pa of Can 43:613-14 Jl '42

Modern trends in pumping-station equipment. N. G. McDonald. il diag Water & Sewage 80:35-9, 67-8, 71-2, 75-6 Ap '42; Same abr. Am Water Works Assn J 34:1241-60 Ag '42; Abstract. Water Works & Sewerage 89:257-8 Je '42

New equipment; plant service equipment. il Iron Age 149:64-5 F 5 '42

Notes on marine pumps; installation, operation, maintenance. W. Quimby. il Marine Eng 47:123-6 Jl '42

Oliver united filters diaphragm pump. diag Chem Ind 50:800 Je '42

Pipes, pumps, packing, and valves in the pulp and paper industry. V. F. Waters. flow charts il Paper Tr J 113:89-90+ N 27 '41

Plastics competition award to Oliver united filters inc.; acid pump impeller and filter drum segment. il Mod Plastics 19:112-13 N '41

PUMPS—*Continued*

Propeller pump solves water problem; condenser water supply system at Morrow station. Elec W 118:949 S 19 '42

Pump has hydraulic plunger; patent. diag Machine Design 13:122+ D '41

Pump pounding corrected by simple air snifter. D. R. Taylor. diag Water Works & Sewerage 89:sup74 Je '42

Pumps for home protection; simple units for combatting incendiary bombs and fires can be made from available material. G. H. Stahler. il diags Sci Am 167:116 S '42

Pumps in the chemical industry. W. W. Mellen and A. P. Smith. Am Inst Chem Eng Trans 38:831-40 Ag '42; Same. Can Chem & Process Ind 26:524-6 S '42; Same. Nat Pet N 34 pt 2:R382-4 O 28 '42; Abstract. Chem & Eng N 20:662 My 25 '42

Pumps, valves and fittings all may constitute bottlenecks; handling fluids for processing operations especially in manufacture of rayon and synthetic yarns. il Rayon 23: 297-300 My '42

Refinery applications of rotary pumps. R. G. Lovell. il diags Pet Eng 14:38+ O; 74, 76+ N '42

Reporting what's new in equipment. il Chem & Met Eng 48:117-18 N '41

Review of power and mechanical equipment; pumps. il diags Power 85:968-70 Mid-D '41

Selecting rotary pumps for the refinery. R. G. Lovell. Pet Eng 13:58+ S '42

Selection and maintenance of chemical pumps; co-operation between maker and user. C. H. Butcher. il Chem Age (Lond) 46:135-8 Mr 14 '42

Southwark pumps; abstract. S. L. Kerr and S. Moyer. diags Power 85:976-7 Mid-D '41

Triplex pump marked advance in Gulf Coast drilling. H. F. Simons. il Oil & Gas J 41: 88+ Je 25 '42

Unitized bases for pumps on drilling rig. il Pet Eng 13:80 D '41

Welch duo-seal pumps. il R Sci Instr 13:235-6 My '42

See also

Air pumps
Oil pumps
Pumping machinery
Pumping stations
Pumps, Centrifugal
Vacuum pumps

Advertising

Building the Goulds industrial catalog; designed to serve four types of users on 700 items. G. W. Cramer. il Ind Marketing 26: 26-8 D '41

Bearings

Metallizing restores packing journal. il Elec W 117:1838 My 30 '42

Design

Design of gear pumps. J. C. Monahan. diags Product Eng 13:411-12 Jl '42

Incorporates built-in controls; pump for supplying lubricants to transmissions; patented by Mack mfg. corp. diags Machine Design 14:134 My '42

New designs extend reciprocating-pump applications. D. F. Schaub. il diag Power 86: 400-1 Je '42

Pump design for chemical processes; service in the food industries. il Chem Age (Lond) 46:145-6 Mr 14 '42

Pump has unique squeegee action. il diags Product Eng 13:74 F '42

Pump with flexible rubber-tube action; Downingtown-Huber squeegee pump. il diags Mach 48:139-40 Mr '42

Reducing machinery cost of welding. R. Wagner. il diag Welding J 21:93 F '42

Squeegee type pump, made by Downingtown mfg. co. il Water Works & Sewerage 88: sup78 D '41

See also

Pumps, Centrifugal—Design

History

Ancient and modern pumps; with history of Cameron steam pumps. R. N. Bryan. il Comp Air M 47:6829-36 S '42

Lubrication

Emergency lubricator keeps pump running. C. E. Foster. diags Power 86:667 S '42

Pump and bearing lubrication practice. V. M. Palmer and C. L. Pope. Power Pl Eng 46:72-3 Ja '42

Maintenance and repair

Maintenance of pumps. J. H. Hall. Paper Tr J 114:94-8 Je 25 '42

Prolonging life of centrifugal pumps. A. T. Nielsen. Chem & Met Eng 49:90-2 Jl '42

Manufacture

Colonial broach company; making rotors used in hydraulic pumps. J Aeronautical Sci Aeronautical R Sec 9:57+ Mr '42

Flexibility features reorganized; manufacturing operations of the Pump engineering service corp. J. Geschelin. il Automotive & Aviation Ind 87:38-41+ Jl 15 '42

Ihrigizing makes pump shaft corrosion resistant. diags Product Eng 13:193 Ap '42

Pressure molded parts simplify machining; hand pump for aircraft. il Product Eng 13: 632 N '42

Pump rotors precision made; Vickers, inc. il Iron Age 149:61 F 19 '42

Standards

Use of A.P.I. specifications in standardization of oil-well pumps; abstract. B. L. Remick. Oil & Gas J 40:36 Ap 2 '42

Stirrup pumps

Modern designs; no brass in O.C.D. stirrup pump. il diags Product Eng 13:316-17 Je '42

People's pump; stirrup pump. il Mod Plastics 19:38-9+ Jl '42

Stirrup pump; official version. il Business Week p69 Je 13 '42

PUMPS, Centrifugal

Adaptation of the centrifugal pump to refinery use. R. G. Lovell. il diags Pet Eng (Annual no) 13:179-84+ [Jl] '42

Adjusting speed to suit load insures efficient operation. A. F. Hartung. il Power 86:789-91 N '42

Basic considerations of refinery pumping. R. G. Lovell. diags Pet Eng 13:61, 64, 66+ Je '42

Centrifugal pumps are widely used in pipeline service. F. R. Young. il Oil & Gas J 41:162+ S 24 '42

Centrifugal pumps for process use. A. T. Nielsen. il diags Chem & Met Eng 49:90-2 Mr '42

Centrifugal pumps; selection of the proper pump and a simple method of checking efficiencies. H. E. Beckwith. Water Works & Sewerage 89:sup51-4 Je '42

Changes in pump cure air troubles. F. A. Kristal. diags Power 86:585-6 Ag '42

Determining operating points of centrifugal pumps working on pipe lines. A. J. Stepanoff. Oil & Gas J 40:45-6, 48-9+ D 4 '41

Dry-dock suction chamber; model-prototype conformity. C. B. Patterson. diags Am Soc C E Proc 68:1295-1300 O '42

Economic use of electric power in petroleum production. W. H. Stueve. Oil & Gas J 40: 38 Ap 9 '42

How to choose among heater drain recovery systems. I. J. Karassik and W. P. Spining. diags Power 86:226-8 Ap '42

How to figure tricky pump heads. F. Kristal. il Power 86:23 Ja '42

Modern turbine-driven units fit variable-load pumping systems. R. Carter. flow diags il Power 86:550-2 Ag '42

New processes bring pumping problems in the wartime refining plants. D. T. Whiting and K. P. Hurley. Nat Pet N 34 pt 2:R263-4 Ag 26 '42

New type secondary recovery in Dupo, Illinois, field; electrical centrifugal pump installed. V. Kotschoubey. il map Oil & Gas J 40:39-40 Mr 5 '42

Operation of electric centrifugal producing pumps in parallel. W. H. Stueve. diag Oil & Gas J 40:36 F 12 '42

PUMPS, Centrifugal—*Continued*

Operation of electrical centrifugal stations. P. Reed. il Oil & Gas J 40:42 Ja 8 '42
Priming system of trailer fire pump. diags Engineering 154:47 Jl 17 '42
Pumps lose suction. diags Power 85:910-11, 931a+ D '41
To make a pump self priming. S. H. Coleman. diag Power Pl Eng 46:92 Ap '42
Tri-Clover centrifugal pump for latex. il Rubber Age 51:74 Ap '42
Wartime practices adopted to conserve centrifugal pumps in refineries. Nat Pet N 34 pt 2:R354 O 28 '42

Design

Pump design affords wide scope in application. H. Gartmann. diags Machine Design 14:55-8+ Ap '42

Maintenance and repair

Maintaining efficiency of motor-driven centrifugal pumps. L. V. Schuerholz. Am Water Works Assn J 34:229-33; Discussion. S. E. Kappe. 233-6 F '42
Maintenance of centrifugal pumps. V. C. Lischer. il Am Water Works Assn J 34: 200-20 F '42; Same. Water Works & Sewerage 89:83-91 F '42
Prolonging life of centrifugal pumps. A. T. Nielsen. Chem & Met Eng 49:90-2 Jl '42
Pump-trouble check chart; data sheet. Power 86:597 Ag '42

Manufacture

Baseplates of welded steel. M. L. Murdock. il Iron Age 148:50-1 N 20 '41

Testing

Try this on that orphan; determining pump characteristics. W. Maddock. Power Pl Eng 46:95-6 O '42
Visual experimentation with centrifugal pumps. H. L. Cooper. il diags Engineer 172:278-81 O 24 '41; Discussion. 172:395-6 D 5 '41

PUMPS, Feed water

Adjustable-varying-speed direct-connected drive for large boiler feed pumps. A. E. Beardmore. il Gen Elec R 45:159-60 Mr '42
Boiler-feed pump; protect against speed variation. I. J. Karassik. Power 86:275-6 Ap '42
Boiler-feed-pump troubles. diags Power 86: 590-3 Ag '42
High-pressure-pump trouble. diags Power 86: 830-1+ N '42
How to calculate temperature rise in high-pressure pumps. T. Baumeister. Power 86: 306-7 My '42
How to choose among heater drain recovery systems. I. J. Karassik and W. P. Spining. diags Power 86:226-8 Ap '42
How to cut pump packing. C. Egerter; C. C. Lynde. diag Power Pl Eng 46:82 Je '42

Models

Teacup-size feed pump. il Power 86:505 Jl '42

PUMPS, Fuel

Controls speed without hunting; device for Diesel engines, combining function of fuel pump and governor; patent. diag Machine Design 14:122+ Mr '42
Fuel feed at high altitude. W. H. Curtis and R. R. Curtis. bibliog il diags S A E J 50: 321-37 Ag '42

PUMPS, Submersible

Bore-hole type pump for fire service. diags Engineer 173:81-2 Ja 23 '42
Economic use of electric power in petroleum production. W. H. Stueve. Oil & Gas J 40: 38 Ap 9 '42
Immersed-motor pump for power transformers. L. H. Burnham. il Gen Elec R 45:131 F '42
New type secondary recovery in Dupo, Illinois, field; electrical centrifugal pump installed. V. Kotschoubey. il map Oil & Gas J 40:39-40 Mr 5 '42
Noiseless and bombproof booster pumps. plan Power Pl Eng 46:114-15 My '42
Pumping experiment designed to check various factors. G. M. Stearns. il diag Oil & Gas J 41:31-2 S 3 '42

PUMPS, Turbine

Pumps for magnesium reduction plant. Power Pl Eng 46:59 Mr '42
Turbine pumps do their bit for zinc; unwatering mines in Tri-state area. W. F. Netzeband. il Min Cong J 28:18-19 Ag '42
Vertical turbine pumps adapted to high-head water works; Newport, Ky. J. G. Davis. il diags Power 86:813-15 N '42

PUMPS, Vacuum. See Vacuum pumps

PUNCHED card system

Accumulating cubes with punch cards. M. M. Sandomire. Am Statis Assn J 36:507-14 D '41
Coding and tabulation of medical and research data for statistical analysis. T. I. Edwards. bibliog Pub Health Rep 57:7-20 Ja 2 '42
Engineering release for mass production; punched card system; Curtiss-Wright corporation. L. N. Pizzuto. il Aviation 41:108-12 Jl '42
Fewer clerks make up more payroll in less time. D. M. Olson. il Factory Management 100:87-8+ Jl '42
Mathematical operations with punched cards. J. C. McPherson. Am Statis Assn J 37:275-81 Je '42
Mechanical brain aids Canadian census takers; Belisle sorter-tabulator for punched cards. R. N. Bryan. il Comp Air M 47:6793-4 Jl '42
Obtaining differences from punched cards. H. P. Hartkemeier and H. E. Miller. chart Am Statis Assn J 37:285-7 Je '42
Punch card designed to contain written data and coding. J. Berkson. il Am Statis Assn J 36:535-8 D '41
Sensing marks on tabulating cards; automatic punching of tabulating cards from pencil marks. W. C. Israel. il Am Gas Assn Proc 1941:198-205

PUNCHES

Cartridge links for machine guns and automatic rifles. F. C. Duston. il diags plan Mach 49:123-38 O '42
Punches cut their own dies. J. Haydock. il diags Am Mach 86:815-18 Ag 6 '42

Manufacture

Hardening of cartridge dies and punches. R. B. Seger. il diags Metals & Alloys 15:776-8 My '42

PUNCHING

Investigation of punching quality of laminated phenolic sheet. diags Am Soc T M Proc 41:403-12 '41
Multiple subpress dies for aircraft fabrication. G. F. Wales. il diag Iron Age 150:52-5 Ag 27 '42

See also

Sheet metal work

PUNCHING machinery

See also

Dies

PUNCTUATION

Use of dashes shows your quality. E. N. Teall. Inland Ptr 108:34 N '41

PUNISHMENT

See also

Crime and criminals
Prisons

PUPPETS. See Marionettes

PURCHASING

Benefits of material standardization. F. G. Jenkins. bibliog Mech Eng 64:545-8+ Jl '42
Co-ordinating material with production needs. H. J. Myers. N A C A Bul 23:793-812 F 1 '42
Forward buying lessens. Nat City Bank p133-4 D '41
How to buy more for your money. S. Margolius. 81p pa $1 Modern age books, New York '42
Increasing efficiency in wartime purchasing. E. W. Fair. Glass Ind 23:389 O '42
Plan to create purchasing power for the post-war market. E. M. Cope. Automotive & Aviation Ind 87:19+ S 1 '42
Stretching your dollar in wartime. R. Brindze. 197p $1.75 Vanguard press, New York '42

PURCHASING—*Continued*

Switchgear transaction streamlined; diagrams and specifications used in purchasing. E. H. Beckert. Textile World 92:99 O '42

See also

Coal purchasing
Consumers
Consumption (economics)
Department stores—Purchasing
Instalment plan
Insurance, Life—Purchasing
Inventories
Machinery, Replacement of
Merchandizing
Quality of products
Railroads—Purchasing
Restaurants—Purchasing
Retail trade—Purchasing
Stores systems
Warranty

Treatment of salesmen

Buyer's manners set style for the business. M. Dodson. Ptr Ink Mo 43:44+ D '41

PURCHASING, Cooperative

Farmers' marketing and purchasing cooperatives, 1863-1939. R. H. Elsworth and G. Wanstall. Monthly Labor R 54:692-5 Mr '42

PURCHASING, Government

Army tells manufacturers how to get that government order. Sales Management 51:36, 38 O 1 '42

Expanded scope of U.S. army buying. For Comm W 7:27-8 My 23 '42

Follow these simple rules if you want to get government business. A. R. Boone. Sales Management 51:25-6 Ag 15 '42; Abstract. Management R 31:391-2 N '42

Government contract problems. L. M. Cherne, ed. $5 Research inst. of Am, New York '42

Governmental purchasing in the Los Angeles metropolitan area. P. Beckett and M. Plotkin. 186p bibliog(p181-6) pa 75c Univ. of California at Los Angeles, Bur. of governmental research, 42 Library bldg, Los Angeles '41

Guidebook to war business; report to executives, with directory of army purchasing agencies. Business Week p25-40 Je 27 '42

How the government buys foods. H. C. Albin. il Food Ind 14:64-8 O '42

How to do business with Uncle Sam; summary of steps to take to get contract, and to get materials and capital to fill it. Am Mach 86:742m-742x Jl 9 '42

How to sell to the government for civilian needs. U S Bur For & Dom Com Industrial Ser 2:1-25 '41

New army adopts new buying methods. H. B. Hester. il Adv & Sell 34:38, 40 D '41

QMC cuts a trail; its techniques of buying and expediting. Business Week p48+ Je 13 '42

Selling the government; how can the distributor of sanitary and janitor supplies increase his business. M. Fuld. Soap & San Chem 18:129+ Je '42

Single buying agency for war supply urged. Comm & Fin Chr 155:1153 Mr 19 '42

Textile war manual; how to meet government requirements for textiles. Textile World 92:72-3 F '42

Textile war manual; how to obtain government contracts. Textile World 92:68-71 F '42

Uncle Sam's price; ceiling affecting military procurement program. Business Week p18+ My 30 '42

U.S. purchasing agency established in Brazil. Comm & Fin Chr 156:193 Jl 16 '42

Wartime guides for your business; what the government needs and where to negotiate contracts. W. H. Hillyer. Barron's 22:7-8 N 9 '42

See also

Contracts, Government
Munitions
Paper, Government
Priorities and allocations, Industrial

PURCHASING, Household

Dayton workers largely debt-free; future spending plans highly uncertain. P. Salisbury. Sales Management 51:62-4 Jl 1 '42

Nugent reverse credit plan. Bankers M 145:261 S '42

Plan for instalment purchase of peace priorities; goods for post-war delivery. Trusts & Estates 74:547-9 Je '42

See also

Budget, Household
Buying habits
Consumption (economics)
Instalment plan

PURCHASING, Municipal

Cities advised to plan for priorities demands. Comm & Fin Chr 154:1016 N 13 '41

PURCHASING agents

P.A. a big man. Business Week p54 Mr 14 '42

Retail buying under war conditions. B. F. Miller. J Retailing 18:44-8 Ap '42

To whom do a department's operating figures belong? I. Goldenthal. J Retailing 18:24-5 F '42

See also National association of purchasing agents

PURCHASING departments

Standardized office forms help simplify production details; Lockheed aircraft corp. D. M. McKenney. il Aero Digest 41:121-2+ S '42

Summary of replies to questionnaire relative to purchasing department commodity source and price records. C. H. zur Nieden. Am Gas Assn Proc 1941:171-3

Records

Accounting for materials and related procedures; report of the systems and methods study group New York chapter, N.A.C.A. N A C A Bul 23:1657-81 Ag 15 '42

Parts price file cuts work in purchasing department; Operadio manufacturing co. H. E. Fleming. il Am Business 12:35-6 Ja '42

System to control and speed purchase routine; Beech-aircraft corporation, Wichita. il Am Business 12:16-17+ Je '42

PURCHASING power. See Consumption (economics); Market statistics

PURDUE university

Measured stresses in a two-hinged beam arch; Purdue field house. P. E. Soneson. il diags Civil Eng 12:209-12 Ap '42

PURDY, Ross Coffin, 1875-

Ross Coffin Purdy; ceramic leader. bibliog por Am Cer Soc Bul 21:87-91 Je 15 '42

Ross Purdy accorded honorary membership in American ceramic society. Glass Ind 23:267 Jl '42

PURE oil company

Thumbnail stock appraisal. Mag of Wall St 69:148 N 15 '41

PURÉES. See Fruit purées

PURINES

Constitution of purine nucleosides; a new synthesis of xanthine and attempted syntheses of xanthine glucosides from glyoxalines. W. E. Allsebrook, J. M. Gulland and L. F. Story. Chem Soc J p232-6 Ap '42

URKINJE effect

Blue light undesirable for blackouts. M. Luckiesh. Illum Eng 37:113-14 F '42

PURPLE

Purple dye and other products from rourea glabra. C. D. Mell. Textile Col 63:660-1 D '41

PUTNAM, William Lowell, mathematical competition

Awards, 1942. Science 95:426 Ap 24 '42

PUTTY

Electric heat removes paint, putty, without damage. Sci Am 165:342 D '41

Non-metallic materials; chemical, stoneware, porcelain, cements; physical properties, makers. Chem & Met Eng 49:95-6 S '42

See also

Lime putty

PUZZOLANA. See Pozzuolana

PYCNOMETERS

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

PYCNOMETERS—*Continued*

Semimicropycnometer for heavy water. B. J. Fontana and M. Calvin. bibliog diags Ind & Eng Chem Anal ed 14:185-6 F 15 '42

PYORRHEA

Tooth decay and pyorrhea; abstract. Science 94:sup9 N 21 '41

PYRAZINE

Syntheses in the pyrazine series; 2-sulfanilamidopyrazine. J. W. Sausville and P. E. Spoerri. Am Chem Soc J 63:3153-4 N '41

PYRAZOLE

Investigation of pyrazole compounds; the reaction product of phenylhydrazine and ethyl cyanoacetate. A. Weissberger and H. D. Porter. bibliog Am Chem Soc J 64:2133-6 S '42

PYRETHRINS

Search for new insecticides. H. L. Haller. J Chem Educ 19:316-17 Jl '42

Analysis

Pyrethrin determination. J. J. T. Graham. Soap & San Chem 18:95, 97+ N '42

Pyrethrum analysis; the effect of certain aliphatic thiocyanates in the determination of pyrethrin I in mineral oil extracts by the mercury reduction method. J. J. T. Graham. Soap & San Chem 18:101+ Ap '42

PYRETHROLONE

See also
Tetrahydropyrethrolone

PYRETHROSIN

Formation of an azulene on zinc-dust distillation of pyrethrosin. M. S. Schechter and H. L. Haller. bibliog Am Chem Soc J 63:3507-10 D '41

PYRETHRUM

Allocation for pyrethrum; text of the order. Soap & San Chem 18:121 Jl '42

Brazilian pyrethrum; abstract. W. Mohr. Soap & San Chem 18:96 S '42

Kenya, and the story of its newly established pyrethrum industry. E. W. Bennitt. il Soap & San Chem 18:88-9+ Mr '42

Pyrethrum and rotenone; abstract. A. Weed. Chem Ind 51:87 Jl '42

Pyrethrum controlled by full allocation. Oil Paint & Drug Rep 141:5 Je 15 '42

Pyrethrum extracts; abstract. Soap & San Chem 18:96 S '42

Pyrethrum harvester developed. il Oil Paint & Drug Rep 141:42 Mr 23 '42

Pyrethrum vs. roaches. F. L. Campbell. bibliog il Soap & San Chem 18:90-3, 103+ My; 119+ Je '42

WPB now controls pyrethrum. For Comm W 7:22-3 Je 27 '42

Analysis

Pyrethrum analysis; Seil method versus the mercury reduction method. G. J. Hartz, P. A. Hendrickson and D. G. Hoyer. Soap & San Chem 17:123, 125, 127 D '41

Pyrethrum analysis; the effect of certain aliphatic thiocyanates in the determination of pyrethrin I in mineral oil extracts by the mercury reduction method. J. J. T. Graham. Soap & San Chem 18:101+ Ap '42

PYREX

New hard glass; American progress in laboratory ware. Chem Age (Lond) 46:221 Ap 25 '42

Pyrex brand glass wool as a filtering medium. G. B. Heisig. Ind & Eng Chem Anal ed 14:766 S 15 '42

Sealing quartz windows on pyrex tubes. S. W. Benson. diags R Sci Instr 13:267-9 Je '42

PYRHELIOMETERS

Pyrheliometer measures heat of sun's rays. il Sci Am 166:170 Ap '42

PYRIDINE

Alkali colour reactions of some anthraquinone-type intermediates and dyes. W. Bradley. bibliog Soc Dyers & Col J 58:2-9 Ja '42

Change in the viscosity of viscose by addition of reagents. P. C. Scherer and J. R. Leonards. Rayon 23:607-9 O '42

Mechanism of aromatic side-chain reactions, with special reference to the polar effects of substituents; physical and chemical evidence relating to the polar effect of *o*-methyl substituents in derivatives of the type $C_6H_2Me_3{\cdot}CO{\cdot}CH_2R$. J. W. Baker and W. T. Tweed. Chem Soc J p796-802 D '41

Rates of reaction of diacetone glucose, diacetone galactose and diacetone sorbose with *p*-toluenesulfonyl chloride in pyridine solution. R. C. Hockett and M. L. Downing. Am Chem Soc J 64:2463-4 O '42

Recovery of pyridine bases from coke oven gas and methods for determining them. H. J. Meredith. flow diag bibliog Am Gas Assn Proc 1941:656-64; Excerpt. Am Gas J 155:68-9, 77-8 N '41; Same. Gas J (Lond) 237:166, 169 F 4 '42; Discussion. Am Gas Assn Proc 1941:664-7

Solubility diagram for the system benzene—pyridine—water. J. C. Smith. bibliog J Phys Chem 46:376-80 Mr '42

Starch studies; gelatinization of starches in water and in aqueous pyridine. J. W. Mullen, 2d and E. Pacsu. bibliog il Ind & Eng Chem 34:807-12 Jl '42

Starch studies; preparation and properties of starch triesters. J. W. Mullen, 2d and E. Pacsu. bibliog(65 references) il Ind & Eng Chem 34:1209-17 O '42

Studies in stereochemistry; steric strains as a factor in the relative stability of some coördination compounds of boron. H. C. Brown, H. I. Schlesinger and S. Z. Cardon. bibliog il Am Chem Soc J 64:325-9 F '42

3,4-Substituted pyridines; synthesis of 3-vinyl-4-methylpyridine. J. R. Stevens, R. H. Beutel and E. Chamberlin. bibliog Am Chem Soc J 64:1093-5 My '42

PYRIDINECARBOXYLIC acids

Esters of pyridinecarboxylic acids as local anesthetics. F. F. Blicke and E. L. Jenner. bibliog Am Chem Soc J 64:1721-4 Jl '42

PYRIDINIUM compounds

Pyridinium compounds for fastening direct dyes. A. J. Hall. Textile Col 63:615-16 N '41

Relation between structure and histamine-like activity. C. Niemann and J. T. Hays. bibliog Am Chem Soc J 64:2288-9 O '42

Synthesis of the three isomeric *dl*-β-pyridylalanines. C. Niemann, R. N. Lewis and J. T. Hays. bibliog Am Chem Soc J 64:1678-82 Jl '42

PYRIDINIUM sulfonates

Identification of organic compounds; the preparation of *p*-nitrobenzylpyridinium salts of aromatic sulfonic acids. E. H. Huntress and G. L. Foote. bibliog Am Chem Soc J 64:1017-20 My '42

PYRIDOXINE

Effect of pyridoxine on the urinary excretion of a new fluorescent substance. S. A. Singal and V. P. Sydenstricker. Science 94:545 D 5 '41

Occurrence of fits in pyridoxine deficient rats. S. Lepkovsky, M. E. Krause and M. K. Dimick. Science 95:331-2 Mr 27 '42

Pyridoxine as a growth factor for graphium. P. K. Burkholder and I. McVeigh. Science 95:127-8 Ja 30 '42

PYRIMIDINE

Experimental study of the ultraviolet absorption spectrum of pyrimidine. F. M. Uber. bibliog J Chem Phys 9:777-9 N '41

PYRIMIDINE carboxylic acid

Synthesis of derivatives of pyrimidine-5-carboxylic acid. E. Ballard and T. B. Johnson. bibliog Am Chem Soc J 64:794-8 Ap '42

PYRIMIDINES

Action of ketene on 5,5-dibromoxyhydrouracil. M. Fytelson and T. B. Johnson. bibliog Am Chem Soc J 64:306-8 F '42

Colour reactions of reducing pyrimidines. E. B. Knott. bibliog Soc Chem Ind J 60:313-14 D '41

PYRIMIDINES—*Continued*

Colorimetric determination of silver with 2-thio-5-keto-4-carbethoxy-1, 3-dihydropyrimidine. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:148-9 F 15 '42

N^1-sulfanilylamino-alkyl-pyrimidines. G. W. Raiziss and M. Freifelder. bibliog Am Chem Soc J 64:2340-2 O '42

Studies in chemotherapy; sulfanilamidopyrimidines. R. O. Roblin, jr, P. S. Winnek and J. P. English. bibliog Am Chem Soc J 64:567-70 Mr '42

(*p*-Sulfamylphenylamino-)-pyrimidines. G. de Sütö-Nagy and T. B. Johnson. Am Chem Soc J 63:3234-5 N '41

Sulfonamido derivatives of pyrimidines. J. M. Sprague, L. W. Kissinger and R. M. Lincoln. bibliog Am Chem Soc J 63:3028-30 N '41

2-Thio-5-keto-4-carbethoxy-1,3-dihydropyrimidine and related compounds. J. H. Yoe and G. R. Boyd, jr. bibliog Am Chem Soc J 64:1511-13 Jl '42

PYRITE

Lineage structure and conditions of deposition of pyrite. F. G. Smith. diag Econ Geol 37:519-23 S '42

PYRITES

Ship-loading by ropeway. il diags plan Mech Handling 29:43-5 Mr '42

PYROGALLIC acid. See Pyrogallol

PYROGALLOL

Behavior of pyrogallol trimethyl ether and 3,4,5-trimethoxybenzonitrile toward Grignard reagents. C. D. Hurd and H. E. Winberg. bibliog Am Chem Soc J 64:2085-6 S '42

Pyrogallol derivatives as gasoline antioxidants. W. W. Scheumann and J. H. Haslam. bibliog Ind & Eng Chem 34:485-8 Ap '42

PYROMETERS and pyrometry

Calibration of optical pyrometers. N. A. D. Parlee. bibliog il diags Can Chem & Process Ind 26:230, 232 Ap '42

Continuous balance potentiometer pyrometer. R. D. Towne and D. M. Considine. il diags Electronics 15:92+ Ag '42

Control of kiln temperatures has reached high degree of perfection. il Concrete (mill sec) 50:198-9+ Jl '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; furnace and pyrometer installation. J. E. Doyle, W. J. Collins and J. E. Pluck. diags Iron & Steel Inst J 144:212-17 no 2 '41

Electronic pyrometer control. F. B. MacLaren. diag Electronics 14:50+ N '41

Electronic unit eliminated cyclic mechanism; continuous balance potentiometer pyrometer. il diags Product Eng 13:254-6 My '42

Elliott miniature pyrometer outfit. il Electrician 128:316 Ap 3 '42

Produce better enameled products by radiation pyrometer control; abstracts. W. A. Barrows. il Cer Ind 37:44+ N '41; Steel 110:67-8+ Ja 26 '42

Pyrometer for industrial temperatures, is direct reading. il Sci Am 167:133 S '42

Radiation pyrometers guard refractories, boost production. W. M. Douglas. Instruments 15:9-10 Ja '42

Temperature measuring and control devices for industrial furnaces; radiation pyrometers. H. G. Mead. Cer Ind 39:29 N '42

Which thermostat? J. W. Greve. il diags Machine Design 14:74-7+ Ag '42

See also

Temperature—Measurement
Thermocouples
Thermometers and thermometry

PYROPHOSPHATES

Analysis

Estimation of ortho-, pyro-, meta-, and polyphosphates in the presence of one another. L. T. Jones. bibliog Ind & Eng Chem Anal ed 14:536-42 Jl 15 '42

PYROPHYLLITE

Carriers of rotenone dusts. H. F. Wilson and R. L. Janes. Soap & San Chem 18:103+ Ap '42

Pyrophyllite use freed by F.T.C. Oil Paint & Drug Rep 140:5+ D 29 '41

PYROTECHNICS. See Fireworks

PYROXENES

Binary system $CaSiO_3$—diopside and the relations between $CaSiO_3$ and akermanite. J. F. Schairer and N. L. Bowen. Am J Sci 240:725-42 O '42

System $CaSiO_3$—diopside—anorthite. E. F. Osborn. bibliog diags Am J Sci 240:751-88 N '42

See also

Augite

PYROXYLIN coated fabrics

Flexible coatings for textiles. M. W. Cerf. il Mod Plastics 19:43+ F '42

PYRRHOTITE

Cyaniding a pyrrhotitic ore at Central Patricia; some experimental work upon the influence of alkalinity and litharge. N. Gritzuk. Can Min J 63:491-501 Ag '42

Pyrrhotite; melting relations and composition. E. Jensen. bibliog diags Am J Sci 240:695-709 O '42

PYRROLE

Preparation of several deuterium derivatives of pyrrole. F. A. Miller. bibliog Am Chem Soc J 64:1543-4 Jl '42

Rearrangements of pyrrole rings in the oxidation of dipyrrylmethanes. A. H. Corwin and K. J. Brunings. bibliog Am Chem Soc J 64:2106-15 S '42

Structural investigations upon a substituted dipyrrylmethane; an unusual melting point-symmetry relationship. A. H. Corwin, W. A. Bailey, jr. and P. Viohl. bibliog Am Chem Soc J 64:1267-73 Je '42

Vibrational spectra of pyrrole and some of its deuterium derivatives. R. C. Lord, jr. and F. A. Miller. bibliog J Chem Phys 10:328-41 Je '42

PYRROLES

Determination of the bridge structure of dipyrrylmethanes; a new method for the estimation of active hydrogen. A. H. Corwin and R. C. Ellingson. bibliog diags Am Chem Soc J 64:2098-106 S '42

Steric influences on the aromaticity of dipyrrylmethenes; the synthesis and study of the properties of a di-N-methyldipyrrylmethene. K. J. Brunings and A. H. Corwin. bibliog Am Chem Soc J 64:593-600 Mr '42

Synthesis of unsymmetrical N-methyl dipyrrylmethanes. W. M. Quattlebaum, jr. and A. H. Corwin. Am Chem Soc J 64:922-5 Ap '42

PYRROLIDINE

α, β-Unsaturated aminoketones; reaction of pyrrolidine and tetrahydroquinoline with bromine derivatives of benzalacetophenone. N. H. Cromwell. Am Chem Soc J 63:2984-6 N '41

PYRUVIC acid

Effect of insulin on pyruvic acid formation in depancreatized dogs. E. Bueding and others. bibliog Science 95:282 Mr 13 '42

Preparation of sodium pyruvate. W. V. Robertson. Science 96:93-4 Jl 24 '42

Q

Q FEVER

Histopathology of experimental Q fever in mice. T. L. Perrin and I. A. Bengtson. bibliog Pub Health Rep 57:790-8, pl 1-2 My 22 '42

Pathologic histology in guinea pigs following intraperitoneal inoculation with the virus of Q fever. R. D. Lillie. bibliog Pub Health Rep 57:296-306, pl 1 F 27 '42

QUAKER oats company
Annual report. Comm & Fin Chr 155:1218 Mr 23 '42

QUALITATIVE analysis. See Chemistry, Analytic—Qualitative

QUALITY control. See Factory management—Quality control; Food factories—Quality control

QUALITY of products
Factors affecting the quality of frozen foods. H. Carlton. il Refrig Eng 43:205-8+ Ap '42
Lad who made Los Angeles America's cottage cheese capital. il Sales Management 49:66+ D 15 '41
OPA to police product quality. C. L. Christensian. Ptr Ink 199:38 My 8 '42
Sales force intact and advertising up; Mohawk carpet mills. H. P. Hildreth. Ptr Ink 201:48 N 6 '42
Standards association to aid in pegging price to quality of product. Steel 111:55 Ag 10 '42
Why do you ruin good raw material? restaurant keeper's appeal to poultry packers. V. Megowen. il Food Ind 14:63-4 Je '42

See also
Factory management—Quality control
Inspection
Labels
Products, Certification of
Standardization

QUANTITATIVE analysis. See Chemistry, Analytic—Quantitative

QUANTUM theory
Absorption spectrum of some polymethine dyes. K. F. Herzfeld. J Chem Phys 10:508-20 Ag '42
Energy levels and color of polymethine dyes. A. L. Sklar. bibliog J Chem Phys 10:521-31 Ag '42
Frequency spectrum of crystalline solids. E. W. Montroll. J Chem Phys 10:218-29 Ap '42
Potential energy curves in general chemistry. H. N. Alyea. J Chem Educ 19:337-9 Jl '42
Quantum relations of vision. S. Hecht. bibliog diag Opt Soc Am J 32:42-9 Ja '42

See also
Fine structure constant
Photoelectric effect
Wave mechanics

QUARRIES and quarrying
Cedar Bluff quarry, Princeton, Kentucky, converts open-face to mine. B. Nordberg. il diags Rock Prod 45:56-8 O '42
Drilling on a 45-degree slope; New Enterprise stone and lime co. B. Nordberg. il Rock Prod 45:37-9 Jl '42
Eliminate toes at quarry face; Dolcito quarry co. B. Nordberg. il diag Rock Prod 45:42-4+ Je '42
Index to location of stone quarries in the United States. M. G. Downey. U S Bur Mines Information Circ 7187:1-9 '41
Moving mountain to mill; semi-trailer and trailer combination haul rock from quarry to railway cars. W. H. Cleary. il Rock Prod 45:46-7+ F '42
Same quarry, different rocks; resistance of Chicago area dolomites to freezing and thawing. H. B. Willman. il Rock Prod 44:49-52 D '41
Sandstone grindstones come back. B. Random. il Comp Air M 47:6837-40 S '42
Seismic effects of quarry blasting. J. R. Thoenen and S. L. Windes. pls diags U S Bur Mines Bul 442:1-83 bibliog(p81-3); pa 15c Supt. of doc. '42; Excerpts. Concrete (mill sec) 50:200-1, 223-6 Jl-Ag '42

See also
Blasting
Mines and mineral resources
Rock products plants
Stone, Crushed
Stone cutting

Accidents

Employment and accidents at quarries in the United States. Concrete (mill sec) 50:110 Ja '42
Few tangible facts about cause of tragic quarry blast; Sandts Eddy quarry of the Lehigh portland cement company. Concrete (mill sec) 50:178 My '42
Lost-time accidents in quarries in 1941. Concrete (mill sec) 50:242 S '42
Misuse of blasting caps blamed for accident. Rock Prod 45:95-6 My '42
National safety competition of 1941; with accident data for quarries and mines. W. W. Adams and T. D. Lawrence. U S Bur Mines Rep of Invest 3653:1-43 '42
Quarry accidents in the United States during the calendar year 1940. W. W. Adams and V. E. Wrenn. U S Bur Mines Bul 447:1-87; pa 15c Supt. of doc. '42
Safety awards presented at annual meeting of crushed stone producers. il Explosives Eng 20:84-5 Mr '42

Electric equipment

Bettering quarry drive conditions. Elec W 118:963-4 S 19 '42
Flow production; modern methods at a Scottish quarry. il Elec R (Lond) 130:811-15 Je 26 '42
Heavy quarrying; electrical applications. il Elec R (Lond) 130:359-62 Mr 20 '42
Large excavator; electrically operated plant for quarrying deep overburdens. il Elec R (Lond) 130:399-401 Mr 27 '42

Equipment

All crushing in quarry; haulage system; Glens Falls portland cement co. il Rock Prod 45:40-1 Je '42
Conserving materials in quarry equipment; discussion before National crushed stone association. Rock Prod 45:50-1 Mr '42
Diesel power for new quarry; Superior stone co., Raleigh. E. U. Ragland. il Rock Prod 45:34-5 Ap '42
Modern ideas in quarry equipment shown at Marquette's Earlham unit. il Concrete (mill sec) 49:278-9 D '41
Quarrying priorities. W. A. Nelson. Rock Prod 45:37-8 Mr '42
Selective quarrying; Ohio marble co. il Rock Prod 45:61 F '42
Streamlined stone producer; Raleigh granite company's Greystone quarry. T. L. Wells. il diags plan Explosives Eng 20:228-33 Ag '42
Stripping, blasting and excavating. il Rock Prod 45:86+ Ja '42

Power

Saving with Diesels; abstract. E. Heise. Rock Prod 45:51-2 Mr '42

Safety measures

Big rocks; quarrying fill material for construction of shipyard. C. W. Martin. Safety Eng 82:29-30 D '41
Forty quarries and mines operate without accidents. Concrete (mill sec) 50:210 Jl '42
National crushed stone association safety competition of 1941. T. D. Lawrence and J. E. Isaacson. Explosives Eng 20:244-5 Ag '42
National safety competition of 1941; with list of winners, 1925-1941. W. W. Adams and T. D. Lawrence. il map Explosives Eng 20:192-202 Jl '42
Prevention of premature shots during springing of deep drill holes in quarries and open-pit workings. D. Harrington and C. W. Owings. U S Bur Mines Information Circ 7191:1-8 '41; Excerpts. Concrete (mill sec) 50:152+ Ap '42
Tennessee coal, iron and railroad company celebrates double award. il Explosives Eng 19:371-3 D '41

Canada

Directory of quarries in Canada. Roads & Bridges 80:112, 114 Jl '42

QUARTERMASTER corps. See United States—Quartermaster corps

QUARTZ
Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42
Brazilian quartz, a strategic mineral. P. F. Kerr. Min & Met 23:374-5 Jl '42
Determination of the elastic constants of beta-quartz. E. W. Kammer and J. V. Atanasoff. il diags Phys R 62:395-400 O 1 '42

QUARTZ—*Continued*

Heat treatment of refractory materials. N. W. Taylor and S. Zerfoss. Blast F & Steel Pl 30:538-9 My '42

Piezo quartz. A. W. G. Wilson. il Can Chem & Process Ind 26:10-14+ Ja '42

Quartz-crystal accelerometer. R. O. Fehr. il diag Gen Elec R 45:269-72 My '42

Quartz photoelectric spectrophotometer. H. H. Cary and A. O. Beckman. il diags Opt Soc Am J 31:682-9 N '41

Quartz plate with coupled liquid column as a variable resonator. F. E. Fox and G. D. Rock. diag Inst Radio Eng Proc 30:29-33 Ja '42; Abstract. Electronics 15:100+ Ap '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Raw quartz crystals. C. F. Baldwin. il Gen Elec R 45:415 Jl '42

Strategic crystals; Brazilian government acts to stabilize quartz market. Business Week p88 N 15 '41

See also

Glass

Radio frequency—Crystal control

Silica

Tridymite

Analysis

Hydrofluosilicic acid method for determination of quartz. F. H. Goldman. bibliog diags Ind & Eng Chem Anal ed 13:789-91 N 15 '41

QUARTZITE

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; manufacture of the roof bricks and their properties before use. T. R. Lynam, J. H. Chesters and T. W. Howie. Iron & Steel Inst J 144:206-12 no 2 '41; Same. Blast F & Steel Pl 30:276-8 F '42

QUEBEC

Bridges

Historic accidents and disasters; first Quebec bridge. il diags Engineer 172:266-8, 286-8, 306-9 O 24-N 7 '41

Historic accidents and disasters; second Quebec bridge. il diags Engineer 172:406-9 D 12 '41

QUEBEC (province)

Quebec minority. Economist 143:45-6 Jl 11 '42

See also

Geology—Quebec

Mines and mineral resources—Quebec

QUEBRACHO

Argentine trade in quebracho and urunday. For Comm W 8:27-8 Jl 18 '42

Cheap mud work employed in drilling Trinidad wells; citrus juices substituted for quebracho for viscosity control. C. N. Smith. Oil & Gas J 41:52, 55-6 My 28 '42

Coumaran derivatives; synthesis of 3,4,6,3′,4′-pentahydroxy-2-benzylcoumaran. R. L. Shriner and F. Grosser. bibliog Am Chem Soc J 64:382-4 F '42

Exports of quebracho extract from Paraguay to the United States, monthly 1941. For Comm W 6:22 Ja 31 '42

Fluorspar producer in Illinois tries quebracho extract in flotation. Eng & Min J 143:47 Ja '42

Paraguay's quebracho-extract industry. For Comm W 8:21 S 19 '42

Scale removed from pipe by simple treatment; use of sodium hexametaphosphate and alkaline quebracho tannin; line carrying salt water for disposal. H. F. Simons. diag Oil & Gas J 40:29-30 Ap 16 '42

QUENCHING

New equipment speeds aluminum heat treating; Bell aircraft corp. R. L. Stevens and J. Whiteley. il Iron Age 150:40-3 O 29 '42

Salvaging heat from quenching oil. il Iron Age 149:62 F 5 '42

Some tests on quenching oils. T. F. Russell. Metal Prog 40:800+ N '41

Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42

25-sec. quenching for light metals. il Iron Age 150:72-3 O 22 '42

See also

Steel, Quenching of

QUENCHING of fluorescence. See Fluorescence

QUENCHING of radiation. See Radiation

QUENCHING of steel. See Steel, Quenching of

QUERCETIN

Determination of certain quercetinlike substances using a Klett-Summerson photoelectric colorimeter. C. W. Wilson, L. S. Weatherby and W. Z. Bock. Ind & Eng Chem Anal ed 14:425-6 My 15 '42

QUESTIONNAIRES

See also

Business—Reports to government

QUILLAJA saponaria. See Soapbark tree

QUINALDINE

Derivatives of 4-amino-6-methoxyquinaldine. W. F. Holcomb and C. S. Hamilton. bibliog Am Chem Soc J 64:1309-11 Je '42

QUINCKE-HERSCHEL tubes

Acoustic filtration in parallel conduit structures. L. W. Labaw. il Acoustical Soc Am J 13:345-52 Ap '42

QUINCY, Illinois

Sewerage

Quincy's new sewer system and treatment works completed. E. Minderman. il Water Works & Sewerage 88:568 D '41

QUINIDINE

Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41

Optical activity of some cinchona alkaloids and some of their salts in mixtures of water and ethyl alcohol. J. C. Andrews. bibliog Ind & Eng Chem Anal ed 14:543-5 Jl 15 '42

Quinine order extended to related alkaloids. Oil Paint & Drug Rep 141:4+ Je 22 '42

QUININE

Cinchona cultivation in Latin America. W. Popenoe. Oil Paint & Drug Rep 141:3+ Ap 20 '42

Cinchona for quinine: vital Netherlands Indies product. C. K. Moser. il For Comm W 6:6-7+ Ja 10 '42

Distribution of quinine limited to build stock pile. For Comm W 7:25 Ap 25 '42

Iodosulfate microchemical identification tests for cinchona alkaloids. C. C. Fulton. bibliog il Ind & Eng Chem Anal ed 13:848-50 N 15 '41

Malaria medicine monopolies assailed by Representative Gearhart. Oil Paint & Drug Rep 142:3+ Ag 17 '42

Malaria medicines probe to be sought in Congress. Oil Paint & Drug Rep 142:7+ Ag 24 '42

Merck's quinine. Business Week p45-7 Jl 18 '42

No quinine shortage. Business Week p56+ F 7 '42

Philippines carry on successful quinine production. Chem & Eng N 20:51 Ja 10 '42

Prize of war. il Business Week p46 F 21 '42

Quinine comes back to western hemisphere. For Comm W 9:27 N 7 '42

Quinine order extended to related alkaloids. Oil Paint & Drug Rep 141:4+ Je 22 '42

Quinine production in Philippines. For Comm W 6:36 Ja 17 '42

Quinine quest. Business Week p66+ Mr 14 '42

Quinine substitute marketing probed. Oil Paint & Drug Rep 141:3+ Mr 30 '42

Quinine use held to malaria only. Oil Paint & Drug Rep 141:3+ Ap 13 '42

Quinine wanted. H. N. Holmes. Chem & Eng N 20:1293 O 25 '42

3,4-Substituted pyridines; synthesis of 3-vinyl-4-methylpyridine. J. R. Stevens, R. H. Beutel and E. Chamberlin. bibliog Am Chem Soc J 64:1093-5 My '42

QUININE—*Continued*
WPB takes over all quinine supplies. For Comm W 7:25 My 2 '42

QUINIZARIN sulfonic acid
Sodium salt of quinizarin-6-sulfonic acid as an acid-base indicator. J. H. Green. Ind & Eng Chem Anal ed 14:249 Mr 15 '42

QUINOL
Electric polarisation of mercurous trichloroacetate and of quinol bistrichloroacetate. N. R. Davidson and L. E. Sutton. Chem Soc J p565-7 S '42

QUINOLINE
Chemistry of quinolines. R. H. Manske. Chem R 30:113-44 bibliog(231 references, p140-4) F '42
Heterocyclic derivatives related to sulfanilamide; the quinoline analog of sulfanilamide and derivatives. H. Urist and G. L. Jenkins. bibliog Am Chem Soc J 63:2943-4 N '41
Sulfanilamido derivatives of nitrogen bases from California petroleum. L. M. Schenck and H. R. Henze. bibliog Am Chem Soc J 64:1499-1501 Jl '42
Syntheses in the quinoline series; 2,4-dissubstituted quinoline derivatives. F. J. Buchmann and C. S. Hamilton. bibliog Am Chem Soc J 64:1357-60 Je '42
Syntheses in the quinoline series; some derivatives of 4-methylquinoline and a study of their structures. O. H. Johnson and C. S. Hamilton. bibliog Am Chem Soc J 63:2864-7 N '41
Syntheses in the quinoline series; the nitration of 2-chloro-4-methylquinoline and the preparation of some 2-hydroxy-4-methyl-8-(dialkylaminoalkyl)-aminoquinolines. O. H. Johnson and C. S. Hamilton. Am Chem Soc J 63:2867-9 N '41
Utilization of alkoxy ketones in the synthesis of quinolines by the Pfitzinger reaction. S. D. Lesesne and H. R. Henze. Am Chem Soc J 64:1897-1900 Ag '42

QUINOLINOL. See Hydroxyquinoline

QUINONE chloroimide
Qualitative determination of ferrocyanide ion with quinone chloroimide. E. W. Blank. J Chem Educ 19:321 Jl '42

QUINONES
Alkylation of para quinones with acyl peroxides. L. F. Fieser and A. E. Oxford. bibliog Am Chem Soc J 64:2060-5 S '42
Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42
Chemistry of vitamin E; behavior at the dropping mercury electrode of quinones related to vitamin E. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:644-5 Mr '42
Comparative reactivity of the carbonyl groups in the thionaphthenquinones; the constitution of certain thioindigoid dyes. J. Harley-Mason and F. G. Mann. Chem Soc J p404-15 Je '42; Abstract. Soc Dyers & Col J 58:209-11 O '42
Coupling of *m*-fluorophenol with some diazotised amines and the preparation of 2-fluorobenzoquinone. H. H. Hodgson and D. E. Nicholson. Chem Soc J p645-6 O '41
Formation and structure of some organic molecular compounds. J. Weiss. Chem Soc J p245-52 Ap '42
Preparation of 2-iodobenzoquinone. H. H. Hodgson and D. E. Nicholson. Chem Soc J p375 My '42
Reaction between quinones and enolates; dibromo-*o*-xyloquinone and sodium malonic ester. L. I. Smith and F. L. Austin. bibliog Am Chem Soc J 64:528-33 Mr '42
Structure of the chloromethylation product of trimethylhydroquinone diacetate. L. I. Smith and R. B. Carlin. Am Chem Soc J 64:524-7 Mr '42
Synthesis and anti-bacterial properties of alkyl and alkenyl derivatives of 2 : 6-dimethoxybenzoquinone. A. E. Oxford. Chem Soc J p577-8 S '42

QUIVIRA
Archeological remains in central Kansas and their possible bearing on the location of Quivira. W. R. Wedel. map Smithsonian Misc Coll v 101, no 7:1-24, pls 1-10 bibliog (p22-4) '42

R

RABBIT brush
Wild rubber on wastelands in the West; abstract. T. H. Goodspeed. Science 95:sup6 Ja 30 '42

RABIES
Vitro cultivation of the street virus of rabies. H. Plotz and R. Reagan. bibliog Science 95:102-4 Ja 23 '42

RACE discrimination
Restricted citizen; discrimination against minorities; evacuation of Japanese-American citizens. E. V. Stonequist. Ann Am Acad 223:149-56 S '42

RACE prejudice
Race prejudice and the war. O. Klineberg. Ann Am Acad 223:190-8 S '42
Racial discrimination in Germany in respect of labour legislation. Int Labour R 45:435-40 Ap '42

RACE problems
Man's most dangerous myth; the fallacy of race. M. F. A. Montagu. 216p bibliog(p195-205) $2.25 Columbia univ. press '42
See also
Minorities

RACEMIZATION
Action of hydrogen fluoride, sulfuric acid and phosphoric acid on optically active 2-butanol. R. L. Burwell, jr. bibliog Am Chem Soc J 64:1025-31 My '42
Alkyl-oxygen fission in carboxylic esters; esters of $\alpha\gamma$-dimethylallyl alcohol and other substituted allyl alcohols. M. P. Balfe and others. Chem Soc J p556-9 S '42
See also
Optical rotation

RACES of man
Rh factor and racial origins. A. S. Wiener. bibliog Science 96:407-8 O 30 '42

RACK-A-ROCK
Adieu to Rack-a-Rock. Comp Air M 47:6693 Mr '42

RACKETEERING
Antiracketeering act not applicable to labor unions; decision of United States Supreme court. Monthly Labor R 54:995-6 Ap '42
Beware of rackets in the maintenance of steel water tanks and standpipes. il Water & Sewage 80:28+ Mr '42
Racket law defined. Business Week p77 Mr 7 '42
Rackets during wartime. A. Fancher. Barron's 22:9-10 Je 8 '42
Wartime rackets; business men warned to be on guard. Business Week p53-4 My 16 '42
See also
Insurance, Life—Fraudulent promotion

RACKHAM, Horace H., educational memorial
Dedication. Science 95:216-17 F 27 '42

RACKHAM, Horace H., engineering foundation
Edsel B. Ford president of Rackham foundation. Mech Eng 64:629 Ag '42

RACKS
Drain tile drying rack saves floor space. il diags Brick & Clay Rec 99:36 D '41
Simple construction for meter rack. E. E. Doudna. il diag Elec W 118:170 Jl 11 '42

RADFORD, Virginia

93 defense houses; views, plans, and construction outline. Arch Forum 76:113-16 F '42

RADIANT heating. See Heating—Panel system

RADIATION

Angular distribution of positron annihilation radiation. R. Beringer and C. G. Montgomery. bibliog diag Phys R 61:222-4 Mr 1 '42

Bactericidal radiation. A. R. Dennington. il diag Am Dyestuff Rep 31:382-5 Ag 3 '42

Characteristic radiations of Co^{60}. M. E. Nelson, M. L. Pool and J. D. Kurbatov. bibliog Phys R 62:1-3 Jl 1 '42

Matter, energy and radiation. J. R. Dunning and H. C. Paxton. 668p $3.50 McGraw-Hill '41

Pressure of radiation in moving system. H. E. Ives. bibliog Opt Soc Am J 32:32-4 Ja '42

Quenching and depolarization of mercury resonance radiation by the rare gases. L. O. Olsen. Phys R 60:739-42 N 15 '41

Quenching and depolarization of resonance radiation by collisions with molecules of a foreign gas; remarks on papers by Ellett, Olsen, and Petersen and by Olsen. S. Mrozowski. bibliog Phys R 61:379-80 Mr 1 '42

Radiation instruments using Geiger Müller tubes. P. Weisz. il diags Electronics 15:44-8+ O '42

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

Resonance absorption of neutrons in rhodium, antimony, and gold. H. Feeny, C. Lapointe and F. Rasetti. bibliog Phys R 61:469-75 Ap 1 '42

See also

Absorption of rays
Alpha rays
Beta rays
Cosmic rays
Dispersion of rays
Gamma rays
Heat
Heat radiation
Heating—Tables, calculations, etc.
Light
Quantum theory
Radiators
Radioactivity
Radiography
Radium
Raman effect
Solar radiation
Sound
Spectrum
Ultraviolet rays
X rays

RADIATORS

Adopt standard sizes in boilers and radiators to conserve defense metals. Am Bld 63:75 D '41

Are radiators necessary in air conditioned buildings? S. R. Lewis. Heating-Piping 13:749 D '41

Factors influencing the heat output of radiators. A. C. Davis, W. M. Sawdon and D. Dropkin. il plans Heating-Piping 14:180-6 Mr '42

Heat loss through walls behind radiators. Consumers' Research Bul 9:6 D '41

Million tons of scrap from radiators! substitution of unit heaters and convectors. A. G. Dixon. il Heat & Ven 39:35-7 O '42

Radiation as a factor in the feeling of warmth in convection, radiator and panel heated rooms. F. C. Houghten, C. Gutberlet and E. C. Hach. il plans Heating-Piping 13:778-85 D '41; Discussion. 14:200-1 Mr '42

Radiator sizing and changes. T. W. Reynolds. Heat & Ven 39:34 Je '42

See also

Hot water heating
Steam heating

RADIATORS, Automobile. See Automobile engines—Radiators

RADICALS (chemistry)

Carboxylation; the peroxide-catalyzed reaction of oxalyl chloride with the side-chains of aralyl hydrocarbons; a preliminary study of the relative reactivity of free radicals. M. S. Kharasch, S. S. Kane and H. C. Brown. bibliog Am Chem Soc J 64:1621-4 Jl '42

Counting of free alkyl radicals; application to the photolysis of acetone. M. H. Feldman, J. E. Ricci and M. Burton. bibliog diag J Chem Phys 10:618-23 O '42

Detection of free radicals by means of a mass spectrometer. G. C. Eltenton. J Chem Phys 10:403 Je '42

Dipole moment of a free radical. J. Turkevich, P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:1179-80 My '42

Electrolysis of Grignard reagents; short-lived free radicals in ethyl ether. R. Pearson and W. V. Evans. bibliog Electrochem Soc Trans 82 (preprint 23):257-64 O '42

Electron-sharing ability of organic radicals. F. A. Landee and I. B. Johns. bibliog diags Am Chem Soc J 63:2891-900 N '41

Electron-sharing ability of organic radicals; the effect of the radicals on the ionizing power of organic solvents. F. J. Moore and I. B. Johns. Am Chem Soc J 63:3336-8 D '41

Heats of dissociation of some hexaarylethanes. R. Preckel and P. W. Selwood. bibliog diag Am Chem Soc J 63:3397-403 D '41

Production of radicals by the illumination of diacetyl with λ 4358 Å. H. W. Anderson and G. K. Rollefson. Am Chem Soc J 64:717 Mr '42

Products from the Wurtz reaction and the mechanism of their formation. A. Saffer and T. W. Davis. bibliog Am Chem Soc J 64:2039-43 S '42

Rubber, polyisoprenes, and allied compounds; the molecule-linking capacity of free radicals and its bearing on the mechanism of vulcanisation and photo-gelling reactions. E. H. Farmer and S. E. Michael. Chem Soc J p513-19 Ag '42

Tri-o-tolyltin and the instability of organometallic free radicals. H. Morris, W. Byerly and P. W. Selwood. bibliog Am Chem Soc J 64:1727-9 Jl '42

See also

Substitution (chemistry)

RADIO advertising

After hours; the radio commercial. W. H. Cunningham. Ptr Ink 197:6 D 19 '41

Anthracite institute uses radio to speed sales and aid Nation. Coal Age 47:116-17 Ap '42

Blue tops all networks in new accounts. Adv & Sell 35:38-9 N '42

Careless listening or did you see that piece about radio in Reader's Digest by Robert Littell? P. Hollister. Adv & Sell 35:17-18+ S '42; Reply (Mr Hollister protests too much). I. S. Mattingly. 35:15+ O '42

CBS gives Consumers Union free time to attack advertising. Sales Management 50:47-8 Ja 15 '42

Co-ops off the air; NBC and CBS refuse to sell time to League. Business Week p78+ O 17 '42

Don't save advertising; make it work! new customers won for packaged goods by offering them something extra to try the product. D. Jones. Sales Management 50:16-18 Je 1 '42

Early effects of war on radio. N. Miller. Adv & Sell 35:21-2+ Ja '42

Ford going on air; goodwill-advertising trend. Business Week p69 Jl 4 '42

44 Blue stations get "Gang busters" to sell clothing, cigars, milk, ice. Sales Management 50:28 Je 15 '42

FM radio; a new tool for merchandising. M. Blackburn. il Am Business 11:21-2 N '41

Good music for utility programs. Pub Util 30:440-1 S 24 '42

Hour for G.M.; institutional radio program reverses an advertising trend. Business Week p57-8 My 16 '42

Important things to know about use of copyrighted music in advertising. P. H. Pumphrey. Ptr Ink 197:27, 30+ N 14 '41

In re plug shrinkers. F. Wolstencroft. Ptr Ink 200:68 S 18 '42

It's time to muse with George Hogan; Public service coordinated transport of New Jersey; weekly radio program which features poetry. Transit J 86:166-7 My '42

Revamped sales policies, radio advertising, hike sales for Eversharp. M. L. Straus. il Sales Management 51:25-6 Jl 15 '42

Review and forecast. C. L. Campbell. il Adv & Sell 35:85-6, 88-9 F '42

RADIO advertising—*Continued*

Station makes survey on radio promotion; interests and needs of advertising executives. Ptr Ink 200:26 S 18 '42

Styles in commercials. A. M. Crossley. il Adv & Sell 35:21-2+ Ag '42

Texaco renews opera broadcasts. Ptr Ink 197:71 N 28 '41

This $200,000 announcer says he's radio sales manager. E. Peterson. il Ptr Ink 200:32, 35+ Ag 14 '42

War causes company heads again to talk via radio; extracts from recent addresses. Ptr Ink 201:45-7 O 9 '42

What will war do to radio advertising? J. Creamer. il Adv & Sell 35:25+ Ap '42

See also
Television advertising

Awards

Awards for contemporary service to radio advertising. il Adv & Sell 35:42-6 F '42

Check lists

57 checker-uppers for radio commercials. E. S. Green. Ptr Ink 198:26+ Ja 16 '42

Coverage

Daily newspaper and its competitors; magazine and radio. P. F. Lazarsfeld. Ann Am Acad 219:32-43 Ja '42

How adequate are telephone homes as cross-section of radio audience? C. E. Hooper. Ptr Ink 200:43+ Jl 24 '42

Looking behind the radio dial; a new technique for radio audience measurements. C. E. Hooper. Ptr Ink 199:20+ My 15 '42

Marketing; Cooperative Analysis will use coincidental as well as recall method. Business Week p82+ O 24 '42

Roper counts customers; a study of consumer response to 40 CBS sponsored programs. 39p Columbia broadcasting system. New York

Size of a radio-listener sample. C. E. Hooper. Ptr Ink 198:29+ Ja 2 '42

See also
Radio listeners

Participating programs

See Radio advertising, Cooperative

Purchasing

Problems of buying local time. A. M. Crossley. Adv & Sell 34:33-4+ D '41

Regulation

Development of the control of advertising on the air. C. J. Friedrich and J. Sayre. 39p pa 50c Radiobroadcasting research project, Littauer center, Harvard univ, Cambridge, Mass. '40

Research

Load curve guides radio advertising; electrical demand of a typical Iowa farm county. H. J. Rowe. Elec W 118:328 Jl 25 '42

Wanted: a survey of people's views on radio commercials. Adv & Sell 35:21+ My '42

Why can't we do something besides a daytime serial? S. Haynes. il Adv & Sell 35:13-15+ Jl '42

Schedules

How to find best radio station and time to advertise your product. R. Manville. Ptr Ink 199:19-20+ Ap 24 '42

Spot radio

Radio participating program: what it is, how it works. J. J. Weed. Ptr Ink 198:19+ F 20 '42

Statistics

CBS reports 1941 billings. Ptr Ink 198:51-2 Ja 23 '42

Leading advertisers of 1941 and their expenditures; 401 companies invested $252,590,053. Ptr Ink 198:41+ F 6 '42

Review and forecast. C. L. Campbell. il Adv & Sell 35:85-6, 88-9 F '42

Testimonials

WLW's seal plan; radio station's guarantee. Business Week p58+ N 15 '41

Testing

How to find best radio station and time to advertise your product. R. Manville. Ptr Ink 199:19-20+ Ap 24 '42

See also
Radio advertising—
Coverage

RADIO advertising, Cooperative

Radio participating program: what it is, how it works. J. J. Weed. Ptr Ink 198:19+ F 20 '42

RADIO advertising, Foreign

How U.S. advertisers can reach Latin America by radio. G. Mateyo. il Ptr Ink 199:21-2+ Ap 3 '42

Reaching for trade through the ether; radio rebroadcasts in Latin America. C. J. Rollo and R. Strausz-Hupé. Barron's 21:9 D 22 '41

RADIO aids to aviation

Aero radio digest. Published in monthly numbers of Aero digest

Aircraft radio communication. H. K. Morgan. Aeronautical Eng R 1:19, 21-3 Ag '42

Aircraft radio labs. responsible for research, development, engineering, and inspection for equipment required by Army air corps. J. H. Gardner. il Radio N 27:8-9+ F '42

Airport communications. Electronics 14:90+ N '41

Aviation radio course. P. W. Karrol. il diags Radio N 27:12-13+ Ap; 28-9+ Je; 28:22-3+ Jl; 30-1+ Ag; 30-1+ S; 26-7+ O; 244+ N; 31+ D '42 (to be cont)

Azimuth indicator for flying fields; abstract. H. T. Budenbom. il diags Electronics 14:70+ D '41

Azimuth indicator for ground stations. C. Walsh. Aviation 40:124 D '41

Blind landing of airplanes; low-power low-frequency transmitter. Science 95:sup6 Ja 30 '42

CAA geared for defense. D. H. Connolly. Radio N 27:58+ Ja '42

CAA radio equipment. T. B. Bourne. il Radio N 27:59-61 Ja '42

Control tower operations recorded on 24-hour basis; sound recorders for radio messages. il Aviation 41:165 Ap '42

Development of an improved crystal exciter unit. C. H. Jackson. (Tech. development report 26) 15p bibliog(p15) U.S. Civil aeronautics authority, Washington '41

Instrument landing systems will aid war effort. A. C. Preil. il diags Aviation 41:197, 199 Je '42

Medium high frequency visual ground direction finder; azimuth-indicating radio system. D. S. Little. il diags Aero Digest 40:70, 73+ Ja '42

Radio; a factor in aviation safety. W. E. Jackson. il diags Radio N 27:16-20, 67-9 My '42

Radio ground-training program for student pilots. I. V. French. il Aero Digest 40:128+ Mr '42

Radio in the Army Air corps. A. R. Anthony. il Radio N 27:26-9+ Ja '42

Radio interference with CAA systems. J. M. Wissenbach. diag Elec West 89:45 Ag '42

Safety, efficiency boosted by uniform radio procedures. Civil Aero J 3:95 Ap 1 '42

Standardization of aircraft radio. D. S. Little. il diag Aero Digest 40:76, 79-80+ Ap; 99-100+ My '42

Stratoscope, a new radio aid to aviation. C. Walsh. il Aviation 41:151 Ja '42

UHF antennae in aviation radio. J. C. Hromada. il diag Radio N 27:14-15+ My '42

See also
Air lines—Radio communication
Airports—Traffic control
Direction finding apparatus
Radio apparatus on aircraft
Radio beacons
Radio compass
Radio meteorographs

RADIO aids to aviation—*Continued*

Bibliography

Flight instruments; radio direction finder. J Aeronautical Sci Aeronautical R Sec 9: 55, 57+ D '41

RADIO aids to navigation

FM for ships at sea. S. Summers. il Radio N 28:23+ Ag '42

1942 radio navigational aids; including details of direction-finder stations, radiobeacons, navigational warnings, time signals, etc.; corrected to Feb. 25, 1942. 354p pa 90c U. S. Navigation bur, Hydrographic office, Washington '42

Radio in the Coast guard. J. F. Farley. il Radio N 27:43-8+ Ja '42

See also

Direction finding apparatus

Radio apparatus on ships

Radio beacons

RADIO antennas

A.R.R.L. antenna book. G. Grammer and B. Goodman. 2d ed 142p pa 50c Am. radio relay league, West Hartford, Conn. '42

Aerial characteristics. N. Wells. bibliog il diags Inst E E J 89 pt 3:76-95 Je '42; Abstract. Elec R (Lond) 130:44 Ja 9 '42; Discussion. Inst E E J 89 pt 3:95-9 Je '42

Aircraft antennas. G. L. Haller. il diags Inst Radio Eng Proc 30:357-62 Ag '42

Aviation radio course; development of antennae for aircraft. P. W. Karrol. il diags Radio N 28:30-1+ Ag; 30-1+ S '42

Baltimore mast. il Mod Plastics 19:39-41+ Mr '42

Calculation of ground-wave field intensity over a finitely conducting spherical earth. K. A. Norton. bibliog charts Inst Radio Eng Proc 29:623-39 D '41

Characteristic impedance of parallel wires in rectangular troughs. S. Frankel. bibliog Inst Radio Eng Proc 30:182-90 Ap '42

Circular antenna; abstract. M. W. Scheldorf. diags Electronics 15:84 Ag '42

Electrical oscillations of a perfectly conducting prolate spheroid. R. M. Ryder. bibliog J Ap Phys 13:327-43 My '42

Extended aerial systems; calculating the polar diagrams. E. Green. diags Wireless Eng 19:195-9 My '42

Forest radio antenna needs no insulation. Sci Am 167:74 Ag '42

Measurements on dipoles in the decimetric-wave region; abstract. P. Lange. Wireless Eng 18:465-6 N '41

Multicoupler antenna system includes FM reception. il R Sci Instr 13:86 F '42

112 mc mobile coaxial antenna; car-mounted transmitting and receiving equipment. S. G. Taylor. il diags Radio N 27:20-1+ Je '42

Pennsylvania Turnpike u-h-f traffic control system; antenna and feeder details. il diags plans Electronics 15:40-4 My '42

Polar diagram of a simple broadside array. G. W. O. Howe. Wireless Eng 19:193-4 My '42

Radiation energy and earth absorption for dipole antennae. A. Sommerfeld and F. Renner. diag Wireless Eng 19:351-9, 409-14, 457-62 Ag-O '42

Radio progress during 1941; radio transmitters and transmitting antennas. bibliog Inst Radio Eng Proc 30:62-4 F '42

Recent U.S. patents. diags Electronics 15:119-25 Ap; 112-15 My; 169-78+ Je; 112-13 Jl '42

Self-impedance of a symmetrical antenna. R. King and F. G. Blake, jr. charts Inst Radio Eng Proc 30:335-49 Jl '42

Sources of spurious radiations in the field of two strong signals. A. J. Ebel. diag Inst Radio Eng Proc 30:81-4 F '42

Standards on radio wave propagation; measuring methods. bibliog diags Inst Radio Eng Proc 30:1-16 pt2 Jl '42

Transmitting antenna and a directional loop for aircraft. il Aviation 41:281 F '42

Ultrahigh frequency antenna coupling unit. R. D. Rietzke. diag Electronics 14:74+ N '41

Ultra high frequency antennae in aviation radio. J. C. Hromada. il diag Radio N 27: 14-15+ My '42

Ultra high frequency technique; radiating systems and wave propagation. A. G. Kandoian. bibliog diags Electronics 15:39-44 Ap '42

WABC, New York. Electronics 14:27+ D '41

WSEL protects Blue Ridge parkway. S. R. Winters. Radio N 26:46-7 D '41

See also

Television antennas

Directional antennas

Charts for the determination of the root-mean-square value of the horizontal radiation pattern of two-element broadcast antenna arrays. K. Spangenberg. Inst Radio Eng Proc 30:237-40 My '42

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags plan maps Inst Radio Eng Proc 30:126-8 Mr '42; Same cond. Electronics 14:33+ Jl '41

Design problems of directional loop antennas for aircraft; abstract. G. F. Levy. diags Aviation 41:135 Mr '42

Horizontal-polar-pattern tracer for directional broadcast antennas. F. A. Everest and W. S. Pritchett. il diags Inst Radio Eng Proc 30:227-32 My '42

Inclined rhombic antenna for reducing the effect of fading. C. W. Harrison, jr. Inst Radio Eng Proc 30:241-4 My '42

Mechanical calculator for directional antenna patterns. W. G. Hutton and R. M. Pierce. il diags Inst Radio Eng Proc 30:233-7 My '42

Phase meter calibrator for directional antennas. D. Espy. diags Electronics 15:80+ O '42

RADIO apparatus

Basic radio; the essentials of electron tubes and their circuits. J. B. Hoag. 379p $3.25 Van Nostrand '42

Electrical and radio notes for wireless operators. 246p $2.50 Chemical pub. co. '41

Homemade parts for radio construction. R. P. Turner. il diags Radio N 26:33-5, 42-6 D '41; 27:21-3+ F '42

Institute of radio engineers and Radio manufacturers assn. fall meeting, Rochester; abstracts of papers. il diags Electronics 14: 31-5+ D '41

New magnetic materials. W. E. Ruder. bibliog Inst Radio Eng Proc 30:437-40 O '42

Non-metal shields; colloidal graphite films. B. H. Porter. Electronics 15:33+ Ap '42

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

Plastics in the electronics field; with directory of trade names and suppliers. J. Sasso. il Electronics 15:26-31+ Jl '42

Practical radio course. A. A. Ghirardi. il diags Radio N 27:30-1+ Je; 28:26+ Jl; 36-7+ Ag; 34-5+ S; 28-9+ O '42 (to be cont)

Radio progress during 1941. bibliog Inst Radio Eng Proc 30:57-71 F '42

Radio uses of powdered iron cores. bibliog il Electronics 15:35-7, 93-5 F '42; Excerpts. Elec Eng 61:196 Ap '42

Recent improvements in air-cored inductances. W. H. F. Griffiths. il diags Wireless Eng 19:8-19, 56-63 Ja-F '42

What's new in radio. Published in monthly numbers of Radio news

Wireless coils, chokes and transformers. F. J. Camm, ed. 180p $2.50 Chemical pub. co. '42

See also

Amplifiers, Vacuum tube

Direction finding apparatus

Inductance coils

Oscillators

Radio antennas

Radio apparatus industry

Radio beacons

Radio circuits

Radio communication

Radio compass

Radio condensers

Radio detectors

Radio generators

Radio instruments

Radio meteorographs

Radio receiving apparatus

Radio rectifiers

Radio transmitters

Vacuum tubes

Bibliography

Abstracts and references. Published in monthly numbers of Wireless engineer

RADIO apparatus—Bibliography—*Continued*

Index to abstracts and references published month by month in the Wireless engineer during 1941. Wireless Eng 17:supl-42 D '41

See also

Radio communication —Bibliography

Design

Wartime engineering. A. N. Goldsmith. RCA R 6:395-415 Ap '42; Same. Inst Radio Eng Proc 30:319-28 Jl '42

Manufacture

Where plastic replaces rubber; fifteen widely varied applications at RCA. il Factory Management 100:106-7+ S '42

Military use

Army-navy preferred tubes; list. Electronics 15:120+ N '42

Radio in the war effort; symposium. Inst Radio Eng Proc 30:479-84 O '42

Radio industry goes to war. L. Winner. il Radio N 27:10-13+ My '42

War standards for military radio. S. K. Wolf. il Ind Stand 13:213-14 S '42

War! stimulus for inventions. A. Toombs. Radio N 27:13+ Je '42

See also

Radio communication, Military

Patents

Recent U.S. patents. diags Electronics 15:119-25 Ap '42 [cont monthly]

Wireless patents; a summary of recently accepted specifications. Published in monthly numbers of Wireless engineer

Power supply

Weightless power supplies; voltage-doubler. F. Shunaman. diags Radio N 27:11+ F '42

Repair

Most-often-needed General Electric radio diagrams and servicing information. M. N. Beitman, comp. 64p pa 50c Supreme publications, Chicago '41

See also

Radio receiving apparatus—Repair

Radio service shops

Standards

Fewer but better finishes; RCA manufacturing company's standards program. A. L. Pipper. il Ind Stand 12:209-14 Ag '41; Same. Metal Finishing 40:158-62 Mr '42

Standardization of aircraft radio. D. S. Little. il diag Aero Digest 40:76, 79-80+ Ap; 99-100+ My '42

Standardized marine radio unit. il Electronics 15:36-9 Ja '42

War standards for military radio. S. K. Wolf. il Ind Stand 13:213-14 S '42

Testing

Radio parts tested under extreme temperature ranges. Refrig Eng 44:280 O '42

Testing radio components; ageing and tropical humidity tests. P. R. Coursey. il diag Wireless Eng 19:96-100 Mr '42

RADIO apparatus industry

Properly operating radio receivers are vital to welfare and defense. J. Rider. Radio N 27:15+ F '42

Advertising

Displays in a frozen market; Zenith radio corp. il Mod Packaging 16:78+ O '42

Directories

Buyers' guide for the electronic and allied industries. Electronics 15:supD1-D37 Je '42

Statistics

1941 radio receiver production; comparison with 1940; tabulation. Electronics 15:96 My '42

Record production of broadcast receivers, 1941. Electronics 15:100-1 Ja '42

Canada

Canadian production quotas established. For Comm W 5:10-11 N 22 '41

United States

No radio sets? Business Week p20 Mr 14 '42

Radio and the victory program; effect on production of receivers and on associated components for civilian use. L. Winner. il Radio N 27:9-11+ Mr '42

Radio industry goes to war. L. Winner. il Radio N 27:10-13+ My '42

Radio, phonograph output ended by WPB order. Comm & Fin Chr 155:1152 Mr 19 '42

Serviceman and the new rulings; questions and answers for those having trouble in getting parts for radio repairs. L. W. Martin. Radio N 28:27+ Jl '42

Subcontracts for all; radio set makers. Business Week p15 Ap 18 '42

War contributions of radio manufacturing. P. V. Galvin. Inst Radio Eng Proc 30:479-81 O '42

WPB orders radio plants converted to war output. Comm & Fin Chr 155:843 F 26 '42

See also

Radio corporation of America

RADIO apparatus on aircraft

Aeroplane radio equipment; dealing with Marconi, standard, and North American radio equipment, with special notes on direction finding equipment, Lorenz equipment, and bonding and screening. E. Molloy and E. W. Knott, eds. 132p $2.50 Chemical pub. co. '41

Aircraft antennas. G. L. Haller. il diags Inst Radio Eng Proc 30:357-62 Ag '42

Aircraft industry steps into the driver's seat. il Aviation 41:219 Ag '42

Aviation radio; Bendix aircraft radio receiver; other receivers. C. J. Schauers. il Radio N 27:25+ F; 28+ Mr '42

Aviation radio course; development of antennae for aircraft. P. W. Karrol. il diags Radio N 28:30-1+ Ag '42

Aviation radio course; study of aircraft generators. P. W. Karrol. il diags Radio N 28:22-3, 58-61 Jl '42

Baltimore mast. il Mod Plastics 19:39-41+ Mr '42

CAA radio equipment. R. G. Nichols. il Radio N 27:33-5, 71-4 My '42

Design problems of directional loop antennas for aircraft; abstract. G. F. Levy. diags Aviation 41:135 Mr '42

Flexibility keynote in new lightweight radio equipment. W. W. Macdonald. il Aviation 41:197 S '42

Ignition shielding; abstracts. D. W. Randolph. Automotive & Aviation Ind 86:24-5 Ap 1 '42; Aviation 41:177 My '42

Nazi aircraft radio. J. H. Jupe. il Electronics 15:58-9+ N '42

Plastics competition award to Bell aircraft corp.; radio mast stanchions. il Mod Plastics 19:134-5 N '41

Radio facsimile aids defense; its use in aviation. A. La Terza. il Radio N 26:24-5+ D '41

Receiver tube operation in aircraft. J. E. M. Lagasse and W. W. H. Dean. Electronics 14:56+ N '41

Tokyo and return; fabric-filled phenolic loop antenna housing for bombers. H. M. Richardson. il Mod Plastics 19:42-3+ Ag '42

Transmitting antenna and a directional loop for aircraft. il Aviation 41:281 F '42

See also

Radio aids to aviation

RADIO apparatus on ships

Radio in the navy. L. Noyes. il Radio N 27:50-2+ Ja '42

Standardized marine radio unit. il Electronics 15:36-9 Ja '42

See also

Direction finding apparatus

Radio aids to navigation

RADIO associations

See also
Network affiliates, inc.

RADIO attenuators

Attenuator design; formulas for calculating resistance networks. D. Espy. diags charts Electronics 14:51-4 N '41

Unsymmetrical attenuators. P. M. Honnell. diags Electronics 15:41-3 Ag '42

RADIO beacons

Airway radiorange development. D. S. Little. il diag Aero Digest 40:66-7+ Mr '42

Finessing the radio range. J. A. Gianelli. diags Aero Digest 40:91-2 Je '42

Omnidirectional radio-range system. D. G. C. Luck. bibliog il diags RCA R 6:55-81, 344-69 Jl '41, Ja '42

Pitfalls in radio orientation. R. B. Morse. diags Aero Digest 40:115-16+ My '42

Radiating system for 75-megacycle cone-of-silence marker. E. A. Laport and J. B. Knox. il diags Inst Radio Eng Proc 30: 26-9 Ja '42

Radio; a factor in aviation safety. W. E. Jackson. il diags Radio N 27:16-20, 67-9 My '42

Radio interference with CAA systems. J. M. Wissenbach. diag Elec West 89:45 Ag '42

Radiorange ambiguities. D. S. Little. map Aero Digest 39:62, 65+ D '41

See also
Direction finding apparatus

RADIO broadcasting

All about broadcasting. C. Peet. 67p $1.75 Knopf '42

Broadcasters discuss wartime problems at fifth Broadcast engineering conference. diags Electronics 15:30-2+ Ap '42

Course of study in radio appreciation. A. P. Sterner. 36p pa $1 Educational & recreational guides, New York '41

Discussion on post-war planning in radio communication. Inst E E J 89 pt 3:169-73 S '42

Experimental polyphase broadcasting. P. Loyet. il diags Inst Radio Eng Proc 30: 213-22 My '42

Horizontal-polar-pattern tracer for directional broadcast antennas. F. A. Everest and W. S. Pritchett. il diags Inst Radio Eng Proc 30:227-32 My '42

Inaugural address; future of broadcasting. N. Ashbridge. maps Inst E E J 89 pt 1:17-34 Ja '42; Excerpts. Engineer 172:301-2 O 31 '41; Elec R (Lond) 129:469-70 O 31 '41; Abstract. Electrician 127:252-3 O 31 '41

Principles and practices of network radio broadcasting. D. Sarnoff. 111p RCA institutes technical press, New York '39

Radio handbook; suggestions for the radio director and technician. H. Tooley. 112p pa 75c Northwestern press, Minneapolis '41

Review of technical developments in broadcasting. H. Bishop. bibliog il plan Inst E E J 89 pt 1:35-51 Ja '42; Same. Inst E E J 89 pt 3:2-18 Mr '42

Who, what, why is radio? R. J. Landry. 128p $1.50 G. W. Stewart, 67 W. 44th st, New York '42

See also
Radio advertising
Radio broadcasting stations
Radio communication—Interference
Radio frequency modulation
Radio receiving apparatus
also Radio corporation of America

Announcers

This $200,000 announcer says he's radio sales manager. E. Peterson. il Ptr Ink 200:32, 35+ Ag 14 '42

Bibliography

Bibliography on educational broadcasting. I. M. Cooper. 576p $5 Univ. of Chicago press '42

Radio and radio broadcasting: a selected list of references. A. L. Baden, comp. 109p U.S. Lib. of Congress, Div. of bibliography, Washington '41

Radio and television bibliography. 6th ed 96p Columbia broadcasting system, New York '42

Censorship

See also
Radio laws and regulations

Engineering programs

Radio programs on the war work of engineers. R. L. Sackett. Science 96:56 Jl 17 '42

Frequency modulation system

See Radio frequency modulation

Frequency standards

Review of technical developments in broadcasting. H. Bishop. Inst E E J 89 pt 1: 49-50 Ja '42

Revised standard frequency broadcasts. Franklin Inst J 233:271-3 Mr '42

Government programs

U.S. on the air; government plan to buy short-wave time inspires hope for paid programs. Business Week p28+ F 28 '42

Government use

Plan to coordinate radio war messages. Ptr Ink 199:60 Ap 24 '42

Priorities on propaganda. Business Week p7 Jl 11 '42

History

Sound and fury; an informal history of broadcasting. F. Chase, jr. 303p $3 Harper '42

International aspects

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags plan maps Inst Radio Eng Proc 30:118-29 Mr '42; Same cond. Electronics 14:30-3+ Jl '41

FCC monitoring set-up; Foreign broadcast monitoring service. J. L. Fly. Radio N 27: 71 Ja '42

Radio unites the Americas. For Comm W 7: 34-5 Je 6 '42

Reaching for trade through the ether; radio rebroadcasts in Latin America. C. J. Rollo and R. Strausz-Hupé. Barron's 21:9 D 22 '41

United States and Australia linked directly for first time by radio. Comm & Fin Chr 155:55 Ja 3 '42

Labor programs

See Radio broadcasting—Trade union programs

Monitoring

See Radio broadcasting—Program monitoring

Music

Hearing, the determining factor for high-fidelity transmission. H. Fletcher. bibliog diags Inst Radio Eng Proc 30:266-77 Je '42

Important things to know about use of copyrighted music in advertising. P. H. Pumphrey. Ptr Ink 197:27, 30+ N 14 '41

News

CBS radio nets; broadcasters have organized their networks to meet any emergency. D. Coulter. il Radio N 27:31+ F '42

Commercial wartime news standards are fixed by networks. G. W. Johnstone. Ptr Ink 198: 35+ Mr 20 '42

Radio wartime guide. Ptr Ink 197:56 D 26 '41

Phonograph programs

Discussion of several factors contributing to good recording. R. A. Lynn. il diags RCA R 6:463-72 Ap '42

NAB vs Petrillo: innocent stand-by gets hurt. B. B. Smith. Adv & Sell 35:18, 82-3 N '42

Petrillo extends recording ban. Ptr Ink 200: 59 S 11 '42

Recording and reproducing standards. L. C. Smeby. Inst Radio Eng Proc 30:355-6 Ag '42

RADIO broadcasting—Phonograph programs—*Continued*

Transcription control box. E. L. Marven. diag Electronics 14:58+ D '41

Program monitoring

Automatic monitoring circuit; monitoring programs to intercept air raid warnings; any type of receiver with automatic volume control will operate device. F. Marx. il diag Electronics 15:39, 96 Mr '42

FCC monitoring set-up. J. L. Fly. Radio N 27:71 Ja '42

Program rating

Expected variations in radio program audience ratings. M. N. Chappell. Ptr Ink 201: 58, 60+ O 2 '42

Marketing; Cooperative Analysis will use coincidental as well as recall method. Business Week p82+ O 24 '42

Variables causing inconsistencies between radio program audience ratings obtained by the day-part recall and by the coincidental methods. M. N. Chappell. 23p C. E. Hooper, 22 E. 40th st, New York '42

Program recording

Review of technical developments in broadcasting. H. Bishop. il Inst E E J 89 pt 1:41-2 Ja '42; Same. Inst E E J 89 pt 3:8-9 Mr '42

Program writing

How and where to sell radio scripts. I. M. Stupp. 30p bibliog(p30) pa 25c Thesis pub. co, New York '42

Programs

Radio participating program: what it is, how it works. J. J. Weed. Ptr Ink 198:19+ F 20 '42

Quiz programs

Revamped sales policies, radio advertising, hike sales for Eversharp. M. L. Straus. il Sales Management 51:25-6 Jl 15 '42

Regulation

See Radio advertising—Regulation; Radio laws and regulations

Safety programs

Noon-hour broadcast reaches Louisville workers. Nat Safety N 46:72 S '42

Safety goes via air; program over WGRC. Safety Eng 84:28 S '42

Serials

Why can't we do something besides a daytime serial? S. Haynes. il Adv & Sell 35: 13-15+ Jl '42

Standard frequency

See Radio broadcasting—Frequency standards

Trade union programs

Unions on the air. Business Week p112-13 S 12 '42

War uses

CBS radio nets; broadcasters have organized their networks to meet any emergency. D. Coulter. il Radio N 27:31+ F '42

NBC defense net. N. Trammell. il Radio N 27:72-3+ Ja '42

Radio goes to war; the fourth front. C. J. Rolo. 293p $2.75 Putnam '42

Radio in wartime. C. Siepmann. 32p pa 10c Oxford '42

What radio broadcasting means in the war effort. N. Miller. Inst Radio Eng Proc 30: 482 O '42

Great Britain

Inaugural address; future of broadcasting. N. Ashbridge. maps Inst E E J 89 pt 1:17-34 Ja '42

Power behind the microphone. P. P. Eckersley. 225p 10s 6d J. Cape, London '41

You have been listening to. . . A. B. Campbell. 203p 5s Chapman & Hall, London '40

Greece

Nazis active in radio. For Comm W 6:11 Mr 7 '42

India

News by commodities. For Comm W 7:26 My 9 '42

Latin America

CBS Latin network. Business Week p46 Je 6 '42

How U. S. advertisers can reach Latin America by radio. G. Mateyo. il Ptr Ink 199:21-2+ Ap 3 '42

Radio unites the Americas. For Comm W 7: 34-5 Je 6 '42

Reaching for trade through the ether; radio rebroadcasts in Latin America. C. J. Rollo and R. Strausz-Hupé. Barron's 21:9 D 22 '41

United States

America handcuffed by radio c-h-a-i-n-s; our radio revolution, prosperity's flight through the air. A. B. Meany. 132p $2 Daniel Ryerson, 155 E. 39th st, New York '42

Arnold vs. nets; Antitrust division files action against CBS and NBC. Business Week p44-6 Ja 10 '42

Broadcasting under war conditions. J. B. Epperson and B. Dudley. Electronics 15:34-5+ Ag '42

Careless listening or did you see that piece about radio in Reader's Digest by Robert Littell? P. Hollister. Adv & Sell 35:17-18+ S '42; Reply (Mr Hollister protests too much). I. S. Mattingly. 35:15+ O '42

FCC turns the dial. T. N. Sandifer. Pub Util 29:93-7 Ja 15 '42

Mutual broadcasting system sues RCA-NBC; charges unlawful combination and conspiracy to restrict free and fair competition in radio field. Comm & Fin Chr 155: 192 Ja 13 '42

Mutual hits NBC; asks damages for antitrust violations. Business Week p49-50 Ja 17 '42

Mutual sues RCA and NBC for $10,275,000. Ptr Ink 198:64 Ja 16 '42

NBC networks to be separated. Ptr Ink 197: 82 D 5 '41

Network divorce? signs point to separation of NBC's Blue from Red chain by creating new corporation. Business Week p58-9 D 13 '41

Radio at war. Business Week p38-40 D 20 '41

Rape of radio. R. West. 546p $4 Rodin pub. co, New York '41

U.S. brings new conspiracy suit against NBC and CBS. Ptr Ink 198:58 Ja 9 '42

War hushes radio differences. E. Peterson. Ptr Ink 199:28, 31 My 22 '42

See also

Columbia broadcasting system

National broadcasting company

RADIO broadcasting stations

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags plan maps Inst Radio Eng Proc 30:118-29 Mr '42; Same cond. Electronics 14:30-3+ Jl '41

How to find best radio station and time to advertise your product. R. Manville. Ptr Ink 199:19-20+ Ap 24 '42

San Francisco has its Radio City. il Elec West 89:56-8 Jl '42

WABC, New York. il map Electronics 14: 25-30 D '41

See also

Columbia broadcasting system

Coverage

Service area of medium-power broadcast stations. P. E. Patrick. bibliog diags Inst Radio Eng Proc 30:404-10 S '42

Equipment

Automatic monitoring circuit; monitoring programs to intercept air raid warnings; any type of receiver with automatic volume control will operate device. F. Marx. il diag Electronics 15:39, 96 Mr '42

Blow to radio; freezing order by FCC. Business Week p59+ F 7 '42

Broadcasting under war conditions. J. B. Epperson and B. Dudley. Electronics 15:34-5+ Ag '42

RADIO broadcasting stations—Equipment—*Continued*

Conserving station equipment. A. H. Smith. diag Electronics 15:82+ N '42

Experimental polyphase broadcasting. P. Loyet. il diags Inst Radio Eng Proc 30:213-22 My '42

Frequency-modulation station monitor. H. R. Summerhayes, jr. il diags Inst Radio Eng Proc 30:399-404 S '42

Low-frequency signals operate receiver. il diag Elec W 117:2090 Je 13 '42

Reducing fader leakage. J. H. Greenwood. diags Electronics 15:77+ O '42

Review of technical developments in broadcasting. H. Bishop. bibliog il plan Inst E E J 89 pt 1:35-51 Ja '42; Same. Inst E E J 89 pt 3:2-18 Mr '42

Transcription control box. E. L. Marven. diag Electronics 14:58+ D '41

See also

Radio antennas

Radio transmitters

Heating and ventilation

Heating a mountain-top radio station; station W39B on top of Mt Washington. il Heat & Ven 39:32 Ap '42

Power

Program-operated level-governing amplifier. W. L. Black and N. C. Norman. il Inst Radio Eng Proc 29:573-8 N '41

See also

Radio transmitters—
Power supply

Service

Rent-a-salesman; service launched as subsidiary of station WLW. Business Week p55-6 Mr 7 '42

Switzerland

Radio station of League of nations now an integral part of the network of Radio Schweiz. For Comm W 6:25 Ap 4 '42

RADIO broadcasting studios

Advances in acoustical treatment at new NBC studios; illustrations and plans. Electronics 15:34-5 Mr '42

NBC studios 6A and 6B. G. M. Nixon. il RCA R 6:259-68 Ja '42

Performance of broadcast studios designed with convex surfaces of plywood. C. P. Boner. il Acoustical Soc Am J 13:244-7 Ja '42

Two studios in New York city for N. B. C.; views and plans. Arch Forum 76:161-5 Mr '42

Air conditioning

Air conditioning for radio studios. R. Hatfield. il Refrig Eng 44:130+ Ag '42

Radio City (San Francisco), where air conditioning is an essential service; elimination of sound and vibration. il Dom Eng 159:42-3+ Je '42

Equipment

Review of technical developments in broadcasting. H. Bishop. bibliog il plan Inst E E J 89 pt 1:35-51 Ja '42; Same. Inst E E J 89 pt 3:2-18 Mr '42

RADIO circuits

Analysis of feedback and prevention of oscillation in hf amplifiers. T. Chew. diags Radio N 27:14-15+ Je '42

Analyzer for sub-audible frequencies. H. H Scott. il Acoustical Soc Am J 13:360-2 Ap '42

Attenuator design; formulas for calculating resistance networks. D. Espy. diags charts Electronics 14:51-4 N '41

Audio frequency compensating circuits. S. Cutler. diags Electronics 15:63, 66+ S '42

Automatic monitoring circuit; monitoring programs to intercept air raid warnings; any type of receiver with automatic volume control will operate device. F. Marx. il diag Electronics 15:39, 96 Mr '42

Capacitance effects in high ohmic resistances and the advantages of the radial spiral; abstract. A. Klemt. Wireless Eng 19:218-19 My '42

Circuit for neutralizing low-frequency regeneration and power-supply hum. W. Pan. diags Inst Radio Eng Proc 30:411-12 S '42

Contribution to the theory of network synthesis. R. A. Whiteman. Inst Radio Eng Proc 30:244-6 My '42

Coupling circuits as band pass filters. E. K. Sandeman. diags Wireless Eng 18:361-7, 406-15, 450-4, 492-6 S-D '41

Diminution of variations of amplification by negative feedback, referred to the same amplification factor; abstract. J. Peters. Wireless Eng 19:473-4 O '42

Discussion on frequency stability of tuned circuits. Inst E E J 89 pt 3:173-4 S '42

Eddy current tuning. C. C. Eaglesfield. diags Wireless Eng 19:202-9 My '42

Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15:34-41+ S '42

Formulas for the skin effect. H. A. Wheeler. bibliog diags Inst Radio Eng Proc 30:412-24 S '42

Frequency; characteristics of electromagnetic wave propagation undergo continuous changes and call for broader concepts. S. Ramo. diags Gen Elec R 45:557-67 O '42

Half-wave voltage-doubling rectifier circuit; abstract. C. H. Gleason and W. D. Waidelich. diags Electronics 15:72+ Ag '42

Impedance magnitude and phase shift curves; two-terminal three-element linear networks; reference sheet. V. L. Edutis. Electronics 15:76-8 N '42

L-type impedance transforming circuits. P. H. Smith. diags Electronics 15:48-52, 54+ Mr '42

Modern tone control circuits. L. J. Markus. il diags Radio N 28:12-15+ S '42

Negative and positive resistance; sources and sinks of power. D. M. Tombs. diags Wireless Eng 19:341-6 Ag '42

One-tube quenching-recording circuit for G-M counters. A. W. Coven. diag R Sci Instr 13:188-9 Ap '42

Phase inverters and feedback. M. T. Putnam. diags Radio N 27:20-3+ Ap '42

Power amplifier plate tank circuits. A. B. Newhouse. diags Electronics 14:32-5 N '41

Reactance tubes in F-M applications. A. Hund. diags Electronics 15:68-71+ O '42

Secondary frequency standard using regenerative frequency-dividing circuits. F. R. Stansel. diag Inst Radio Eng Proc 30:157-62 Ap '42

Short-wave spread bands in automobile and home receivers. D. E. Foster and G. Mountjoy. diags Inst Radio Eng Proc 30:222-7 My '42

Superheterodyne tracking charts. R. Payne-Scott and A. L. Green. diag Wireless Eng 19:290-302 Jl '42

Superheterodyne tracking solution. R. De Cola. diags Electronics 15:29-30+ F '42

T to pi transformations simplified. H. Stockman. diags Electronics 15:72-3+ O '42

Transformed networks. H. J. Griese. diags Wireless Eng 19:463-5 O '42

Use of vacuum tubes as variable impedance elements. H. J. Reich. bibliog diags Inst Radio Eng Proc 30:288-93 Je '42

Weightless power supplies; voltage-doubler. F. Shunaman. diags Radio N 27:11+ F '42

RADIO communication

Audels new radiomans guide; theory, construction and servicing; television. E. P. Anderson. new ed 756p $4 Theo. Audel & co, New York '42

Discussion on post-war planning in radio communication. Inst E E J 89 pt 3:168-73 S '42

Fundamentals of radio. E. C. Jordan and others. 400p $5; school ed $3.75 Prentice-Hall '42

Practical radio course. A. A. Ghirardi. il diags Radio N 27:28+ F; 29+ Mr; 29+ Ap; 30-1+ Je; 28:26+ Jl; 36-7+ Ag; 34-5+ S; 28-9+ O '42 (to be cont)

Principles of radio. K. Henney. 4th ed 549p $3.50 Wiley '42

RADIO communication—*Continued*

Radio amateur's handbook, 1942. 19th ed 446p $2.50; pa $1; Special defense ed 288p pa $1 Am. radio relay league, 38 LaSalle road, West Hartford, Conn. '41

Radio fundamentals. W. H. Ballou. 2d ed 260p $1.40 U.S. naval inst, Annapolis, Md. '42

Technique of frequency measurement, and its application to telecommunications. J. E. Thwaites and F. J. M. Laver. bibliog diags Inst E E J 89 pt 3:139-65; Discussion. 165-7 S '42

Wire and wireless communication. Published in fortnightly numbers of Public utilities

Wireless and how it works; a first book for the services. 56p pa 40c Longmans '42

See also

Electric utilities—Radio communication

Gas companies—Radio communication

Radio aids to aviation

Radio aids to navigation

Radio apparatus

Radio broadcasting

Radio engineering

Radio frequency

Radio stations

Radio telegraph

Radio telephone

Radio transmission

Radio waves

Bibliography

Abstracts and references. Published in monthly numbers of Wireless engineer

Index to abstracts and references published month by month in the Wireless engineer during 1941. Wireless Eng 17:supl-42 D '41

Dictionaries

Dictionary of radio and television terms. R. Stranger. 252p $2.50 Chemical pub. co. '41

Drake's cyclopedia of radio and electronics, a practical reference book. H. P. Manly and L. O. Gorder. 10th ed 937p $5 Drake '42

Intercommunicating systems

See Intercommunicating systems

Interference

Common-channel interference between two frequency-modulated signals. H. A. Wheeler. diags Inst Radio Eng Proc 30:34-50 Ja '42

Cosmic static. G. Reber. il diags Inst Radio Eng Proc 30:367-78 Ag '42

Directional characteristics of tropical storm static. S. P. Sashoff and W. K. Roberts. bibliog map Inst Radio Eng Proc 30:131-3 Mr '42

Evaluation of radio-noise-meter performance in terms of listening experience. C. M. Burrill. diag Inst Radio Eng Proc 30:473-8 O '42

Radio interference with CAA systems. J. M. Wissenbach. diag Elec West 89:45 Ag '42

Sources of spurious radiations in the field of two strong signals. A. J. Ebel. diag Inst Radio Eng Proc 30:81-4 F '42

Interference by airplanes

Observations of Doppler effect in short-wave reception field; effects of motion of an aeroplane in neighbourhood of receiving aerial; abstract. J. Grosskopf and K. Vogt. Wireless Eng 18:458 N '41

Interference elimination

Ignition shielding; abstracts. D. W. Randolph. Automotive & Aviation Ind 86:24-5 Ap 1 '42; Aviation 41:177 My '42

Reducing fader leakage. J. H. Greenwood. diags Electronics 15:77+ O '42

See also

Radio frequency modulation

International aspects

See also Radio broadcasting—International aspects

Sewerage department use

Sewer service and maintenance; radio equipped service and maintenance truck. E. P. Decher. il Water Works & Sewerage 89:sup172-4 Je '42

Short wave

Aircraft radio communication. H. K. Morgan. Aeronautical Eng R 1:19, 21-3 Ag '42

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags plan maps Inst Radio Eng Proc 30:118-29 Mr '42

Emergency FM-AM systems. L. Winner. il Radio N 28:6-9+ S '42

Generation and amplification of micro-waves. F. Cox. Electrician 128:73 Ja 30 '42

Measurements of the angle of arrival in the short-wave band of European stations: particularly at times of layer dissolution; abstract. J. Grosskopf and K. Vogt. Wireless Eng 19:213-14 My '42

Microwave transmission. J. C. Slater. 309p $3.50 McGraw-Hill '42

112 mc mobile coaxial antenna; car-mounted transmitting and receiving equipment. S. G. Taylor. il diags Radio N 27:20-1+ Je '42

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

Ultra high frequency technique. A. G. Kandoian and others. bibliog diags Electronics 15:39-68 Ap '42

Ultra-high-frequency techniques. J. G. Brainerd and others. 534p $4.50 Van Nostrand '42

See also

Radio frequency modulation

Radio receiving apparatus—Short wave

Radio transmitters—Short wave

RADIO communication, Military

Calling all planes, tanks, etc.; vital importance to the army of signals and methods of communication of information in modern warfare. H. Corey. Pub Util 29:803-10 Je 18 '42

Eavesdropping by the army; bearings taken to determine location of enemy transmitter. A. R. Boone. il Radio N 28:10-11+ S '42

FM for ships at sea. S. Summers. il Radio N 28:23+ Ag '42

Leathernecks pound brass; Marine corps is equipping its force with radio equipment. J. V. Sandberg. il Radio N 27:44-5 My '42

Major industry supports general defense; United States now communications center of world. W. H. Hillyer. il Barron's 22:9 Jl 27 '42

Our mechanized cavalry; illustrations. S. Johnson. Radio N 27:38-9 My '42

Radio facsimile aids defense; its use in aviation. A. La Terza. il Radio N 26:24-5+ D '41

Radio in the army. il Radio N 27:15-42+ Ja '42

Radio in the Army Air corps. A. R. Anthony. il Radio N 27:26-9+ Ja '42

Radio in the field artillery. il Radio N 27:6-8+ Mr '42

Radio in the Marine corps. J. G. Smith. il Radio N 27:54-6+ Ja '42

Radio in the navy. L. Noyes. il Radio N 27:50-2+ Ja '42

Radio in wartime. S. Siepmann. 32p pa 10c Oxford '42

Radio research and production given great impetus by war; with illustrations of manufacture of Westinghouse transmitting tubes. Steel 111:78-9 Jl 6 '42

Radio ski troops. S. R. Winters. il Radio N 27:22-4+ My '42

Radio training for the air forces; Scott Field, radio university of the air. J. R. Johnston. il Radio N 28:6-9+ Jl '42

Signal corps coordination branch. D. Olmstead. il Radio N 27:6-7+ Je '42

Signal corps maintenance; demand for radio mechanics. L. Winner. il Radio N 28:7-9 Ag '42

Urgent need for radio men. L. Winner. il Radio N 27:8-9+ Je '42

See also

Air raid signals

RADIO compass

Automatic radio compass; abstract. W. L. Webb and G. O. Essex. Aviation 41:135+ Mr '42

RADIO compass—*Continued*

Aviation radio course; theory and operation of loop antennae. P. W. Karrol. il diag Radio N 28:30-1+ S '42

See also

Direction finding apparatus

RADIO condensers

Precision plating of radio condensers. E. C. Rinker. il Steel 110:80+ Ap 6 '42

Superheterodyne tracking charts. A. L. Green. bibliog diags Wireless Eng 19:243-50 Je '42

Temperature compensation of condensers. W. H. F. Griffiths. il diags Wireless Eng 19:101-11, 148-57 Mr-Ap '42; Discussion. 19:199-200, 253-5 My-Je '42

RADIO conductors

Electromagnetic waves in metal tubes of rectangular cross-section. J. Kemp. bibliog diags Inst E E J 88 pt 3:213-18 S '41; Abstract. Wireless Eng 19:93-6 Mr '42

Formulas for the skin effect. H. A. Wheeler. bibliog diags Inst Radio Eng Proc 30:412-24 S '42

Graph of impedance of eccentric conductor cable; reference sheet. W. J. Barclay and K. Spangenberg. Electronics 15:50 F '42

Impedance determinations of eccentric lines; reference sheet. G. H. Brown. Electronics 15:49 F '42

Skin effect formulas. J. R. Whinnery. Electronics 15:44-8 F '42

See also

Radio lines

RADIO control

Air raid warning problems and remote control. E. J. Madden. il diags Radio N 28:14-15+ Jl '42

Alert receiver circuits. R. P. Turner. il diags Radio N 27:28-9, 56-9 My '42

Induction control for experimenters; induction transmission becoming increasingly popular. W. T. Peterson. diag Radio N 28:20-1 Jl '42

See also

Carrier current control

RADIO corporation of America

Announce incorporation of Blue network company, inc. Comm & Fin Chr 155:193-4 Ja 13 '42

Annual report. Comm & Fin Chr 155:1125-6 Mr 16 '42

Budgeted maintenance prevents stoppage in this war plant; RCA manufacturing company, Camden, N.J. M. R. Cowgill. il Factory Management 100:130-3 N '42

Government motion in anti-trust suit denied by court. Comm & Fin Chr 156:1059 S 21 '42

How RCA builds worker morale. il Factory Management 100:[1-16] pt 2 Mr '42

Links United States and Bermuda. Comm & Fin Chr 156:613 Ag 17 '42

Mutual broadcasting system sues RCA-NBC; charges unlawful combination and conspiracy to restrict free and fair competition in radio field. Comm & Fin Chr 155:192 Ja 13 '42

New transPacific radio circuit. Comm & Fin Chr 155:1316-17 Mr 30 '42

Opens new circuit between New York and Teheran. Comm & Fin Chr 155:698 F 14 '42

Opens radiotelegraph circuit between United States and New Zealand. Comm & Fin Chr 155:925 Mr 2 '42

RCA, guinea pig; test case will determine whether consent decrees can be terminated. Business Week p16-17 S 12 '42

RCAM arranges $60,000,000 loan to finance war production. Comm & Fin Chr 156:869 S 7 '42

RCA's amazingly successful "beat the promise" campaign ups production. il Steel 110:34-7, 80, 94+ My 25 '42

RCA's beat the promise campaign. il Ind Marketing 27:28-9+ Ap '42

Radio's 1941 activities; research, manufacturing, broadcasting, communications. D. Sarnoff. Comm & Fin Chr 155:471-3 Ja 29 '42

United States and Australia linked directly for first time by radio. Comm & Fin Chr 155:55 Ja 3 '42

Laboratories

RCA dedicates new electronics laboratories; illustrations. Electronics 15:52-3 N '42

Radio corporation of America; dedication of the laboratories at Princeton, N.J. Science 96:325-9 O 9 '42

RADIO detection of airplanes

Detecting aircraft at night; combining both noctovision and television. H. Rosen. il Radio N 27:6-7+ F '42

Low cost airplane detector. G. Prescott. il Radio N 28:25+ S '42

Position finding by waves. Engineer 173:360-1 My 1 '42

RADIO detectors

Common-channel interference between two frequency-modulated signals. H. A. Wheeler. diags Inst Radio Eng Proc 30:34-50 Ja '42

Discussion on distortionless detection. Inst E E J 89 pt 3:175-6 S '42

Effect of fluctuation voltages on the linear detector. J. R. Ragazzini. diags Inst Radio Eng Proc 30:277-88 Je '42

Generation and detection of frequency-modulated waves. S. W. Seeley, C. N. Kimball and A. A. Barco. diags RCA R 6:269-74 Ja '42

New utilisation of a gaseous-discharge gap as a high-frequency demodulator; abstract. J. Himpan. Wireless Eng 19:76-7 F '42

RADIO engineering

Broadcasters discuss wartime problems at fifth Broadcast engineering conference. diags Electronics 15:30-2+ Ap '42

Institute of radio engineers summer meeting; summaries of technical papers. Inst Radio Eng Proc 30:250-5 My '42

Institute of radio engineers winter convention; summaries of papers. Inst Radio Eng Proc 29:664-7 D '41

Mathematics of wireless. R. Stranger. rev & enl ed 215p $3 Chemical pub. co. '42

Radio engineering in the war effort. A. Van Dyck. Inst Radio Eng Proc 30:482-4 O '42

Radio progress during 1941. bibliog Inst Radio Eng Proc 30:57-71 F '42

Temperature compensation of condensers. W. H. F. Griffiths. il diags Wireless Eng 19:101-11, 148-57 Mr-Ap '42

Ultra-high-frequency techniques. J. G. Brainerd and others. 534p $4.50 Van Nostrand '42

Wartime engineering. A. N. Goldsmith. RCA R 6:395-415 Ap '42; Same. Inst Radio Eng Proc 30:319-28 Jl '42

See also

Electric engineering
Electronics
Radio broadcasting
Radio research
Radio telegraph
Radio telephone
Television

Dictionaries and encyclopedias

Drake's cyclopedia of radio and electronics. H. P. Manly and L. O. Gorder. 10th ed 937p $5 Drake '42

Study and teaching

Electronics and communication courses in American colleges. Electronics 15:84+ S '42

Engineers train for victory; ESMDT courses in electronics, radio communication, and ultrahigh-frequency technique. B. Dudley. il Electronics 15:36-8+ Mr '42

Tables, calculations, etc.

Aerial characteristics. N. Wells. bibliog il diags Inst E E J 89 pt 3:76-95; Discussion. 95-9 Je '42

Amplitude, frequency, and phase modulation relations. A. Hund. Electronics 15:48-54 S '42; Correction. 15:142 O '42

Attenuator design; formulas for calculating resistance networks. D. Espy. diags charts Electronics 14:51-4 N '41

Characteristic curves of the triode. E. L. Chaffee. bibliog diags Inst Radio Eng Proc 30:383-95 Ag '42

RADIO engineering—Tables, calculations, etc. —*Continued*

Class C telegraphy; the graphical determination of optimum operating conditions for transmitting valves. D. G. Prinz and R. G. Mitchell. Wireless Eng 19:401-7 S '42

Contribution to the theory of network synthesis. R. A. Whiteman. Inst Radio Eng Proc 30:244-6 My '42

Design chart for phase shifting and amplitude control networks. W. S. Duttera. Electronics 15:53-5 O '42

Extended aerial systems; calculating the polar diagrams. E. Green. diags Wireless Eng 19:195-9 My '42

Formulas for the amplification factor for triodes. B. Salzberg. diags Inst Radio Eng Proc 30:134-8 Mr '42

Graphical analysis of saw tooth waves. U. R. Furst. diag Electronics 15:49-50 Jl '42

Impedance determinations of eccentric lines; reference sheet. G. H. Brown. Electronics 15:49 F '42

Negative and positive resistance; sources and sinks of power. D. M. Tombs. diags Wireless Eng 19:341-6 Ag '42

Network calculations; Thevenin theorem. T. F. Wall. diags Elec R (Lond) 129:501-3 N 7 '41

Radiation energy and earth absorption for dipole antennae. A. Sommerfeld and F. Renner. diag Wireless Eng 19:351-9, 409-14, 457-62 Ag-O '42

Self-impedance of a symmetrical antenna. R. King and F. G. Blake, jr. charts Inst Radio Eng Proc 30:335-49 Jl '42

Simplified inductance chart; reference sheets. E. S. Purington. Electronics 15:61-2 S '42

Skin effect formulas. J. R. Whinnery. Electronics 15:44-8 F '42

Solenoid inductance calculations; reference sheet. T. C. Blow. Electronics 15:63-4 My '42

Superheterodyne tracking charts. A. L. Green and R. Payne-Scott. bibliog diags Wireless Eng 19:243-50, 290-302 Je-Jl 42

36 and 72 ordinate schedules for general harmonic analysis. R. P. G. Denman. Electronics 15:44-7 S '42

Vector computations; reference sheet. P. W. Klipsch. Electronics 14:41-2 D '41

Velocity modulating grids; investigation of their action by means of analysis and graphical methods. R. Kompfner. Wireless Eng 19:158-61 Ap '42

Terminology

Standards on facsimile; definitions of terms. Inst Radio Eng Proc 30:1-6 pt4 Jl '42

Standards on radio wave propagation; definitions of terms. Inst Radio Eng Proc 30:1-8 pt3 Jl '42

RADIO engineers

Navy to commission radio engineers. J. L. Kerley. Inst Radio Eng Proc 30:329-30 Jl '42

RADIO facsimile

Radio facsimile aids defense; its use in aviation. A. La Terza. il Radio N 26:24-5+ D '41

Radio progress during 1941. Inst Radio Eng Proc 30:67-8 F '42

Standards on facsimile; definitions of terms. Inst Radio Eng Proc 30:1-6 pt4 Jl '42

RADIO fade-out. See Radio transmission—Fading

RADIO filters

Calculation and construction of a quartz bridge filter, and various circuits for quartz bridge filters; abstract. E. Hudec. Wireless Eng 19:419 S '42

Concentric transmission line as harmonic filter. R. E. Snoddy. Electronics 15:68+ My '42

Coupling circuits as band pass filters. E. K. Sandeman. diags Wireless Eng 18:361-7, 406-15, 450-4, 492-6 S-D '41

Low-capacitance a-c power supplies. G. Mountjoy and C. W. Finnigan. diags RCA R 6:455-62 Ap '42

New amplifier features r.c. equalizing. M. T. Putnam. il diags Radio N 28:16-18+ Jl '42

Transformed networks. H. J. Griese. diags Wireless Eng 19:463-5 O '42

Transients in frequency modulation. H. Salinger. Inst Radio Eng Proc 30:378-83 Ag '42

Use of loud-speaker fields as filter chokes. K. A. Pullen, jr. Elec Eng 61:388-9 Jl '42

See also
Electric filters
Radio communication—Interference elimination
Radio condensers

RADIO frequency

Behavior of electrostatic electron multipliers as a function of frequency. L. Malter. diags Inst Radio Eng Proc 29:587-98 N '41

Electrical concepts at extremely high frequencies. S. Ramo. il diags Elec Eng 61:461-4 S '42

Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15:34-41+ S '42

Frequency; characteristics of electromagnetic wave propagation undergo continuous changes and call for broader concepts. S. Ramo. diags Gen Elec R 45:557-67 O '42

Secondary frequency standard using regenerative frequency-dividing circuits. F. R. Stansel. diag Inst Radio Eng Proc 30:157-62 Ap '42

Technique of frequency measurement, and its application to telecommunications. J. E. Thwaites and F. J. M. Laver. bibliog diags Inst E E J 89 pt 3:139-65 S '42; Excerpts. Elec R (Lond) 130:435-6 Ap 3 '42; Abstract. Electrician 128:317-18 Ap 3 '42; Discussion. Inst E E J 89 pt 3:165-7 S '42

Ultra high frequency technique; frequency multiplication. D. L. Jaffe. bibliog diags Electronics 15:60-2 Ap '42

See also
Radio filters
Radio modulation
Radio receiving apparatus—Tuning

Control

Discussion on frequency stability of tuned circuits. Inst E E J 89 pt 3:173-4 S '42

Oscillator for remote frequency control. H. C. Lawrence. diags Electronics 15:42-3 S '42

Zero-beat method of frequency discrimination. C. F. Sheaffer. diags Inst Radio Eng Proc 30:365-7 Ag '42

Crystal control

Calculation and construction of a quartz bridge filter, and various circuits for quartz bridge filters; abstract. E. Hudec. Wireless Eng 19:419 S '42

Review of technical developments in broadcasting. H. Bishop. il Inst E E J 89 pt 1:46-7 Ja '42

Stabilized frequency-modulation system. R. J. Pieracci. il diags Inst Radio Eng Proc 30:76-80, 151 F-Mr '42; Abstract. Electronics 15:34+ F '42

RADIO frequency modulation

Amplitude, frequency, and phase modulation relations. A. Hund. Electronics 15:48-54 S '42; Correction. 15:142 O '42

Common-channel interference between two frequency-modulated signals. H. A. Wheeler. diags Inst Radio Eng Proc 30:34-50 Ja '42

Contribution to the theory of the sidebands in frequency modulation; abstract. T. Vellat. Wireless Eng 19:122 Mr '42

Frequency-modulated carrier telegraph system. F. B. Bramhall and J. E. Boughtwood. il diags Elec Eng 61:Trans 36-9 Ja '42; Abstract. Electronics 15:106+ Ap '42

Frequency modulation applied to telegraph lines. Science 94:sup10 D 12 '41

F-m carrier current telephony. B. Dueño. il diags Electronics 15:57+ My '42

FM for ships at sea. S. Summers. il Radio N 28:23+ Ag '42

FM growth hit by priorities. Barron's 21:5 N 24 '41

FM radio; a new tool for merchandising. M. Blackburn. il Am Business 11:21-2 N '41

Frequency-modulation station monitor. H. R. Summerhayes, jr. il diags Inst Radio Eng Proc 30:399-404 S '42

RADIO frequency modulation—*Continued*

Generation and detection of frequency-modulated waves. S. W. Seeley, C. N. Kimball and A. A. Barco. diags RCA R 6:269-86 Ja '42

Inaugural address; future of broadcasting. N. Ashbridge. Inst E E J 89 pt 1:27-8 Ja '42

Progress in engineering knowledge during 1941; radio. P. L. Alger. diag Gen Elec R 45:100-1 F '42

Response of reactive networks to frequency-modulated signals. J. D. Weston. Wireless Eng 19:251-3 Je '42

Transients in frequency modulation. H. Salinger. Inst Radio Eng Proc 30:378-83 Ag '42

WAYH on the air! short wave FM radio installation provides mobile emergency supervision and repair service for Chicago surface lines. il map Transit J 86:236-8 Jl '42; Excerpts. Electronics 15:63 S '42

Zero-beat method of frequency discrimination. C. F. Sheaffer. diags Inst Radio Eng Proc 30:365-7 Ag '42

See also

Radio receiving apparatus—Frequency modulation adapters

Radio receiving apparatus—Frequency modulation receivers

Radio transmitters—Frequency modulation transmitters

Bibliography

Radio progress during 1941; frequency modulation. Inst Radio Eng Proc 30:65-6 F '42

RADIO generators

Generation and detection of frequency-modulated waves. S. W. Seeley, C. N. Kimball and A. A. Barco. diags RCA R 6:274-86 Ja '42

Signal generator covering frequency range of from 50 to 400 Mc; abstract. J. M. VanBeuren. diag(p35) Electronics 14:34 D '41

Ultra high frequency technique; ultrahigh frequency generators. I. E. Mouromtseff, R. C. Retherford and J. H. Findley. bibliog diags Electronics 15:45-50 Ap '42

Wide-band high-frequency sweep generator. E. J. H. Bussard and T. J. Michel. il diags Electronics 15:58-9 My '42

See also

Oscillators

Vacuum tubes—Generating action

RADIO in education

Audio-visual handbook. E. C. Dent. 4th ed 227p bibliog(p199-227) $1.75 Soc. for visual education, 100 E. Ohio st, Chicago '42

Broadcasting to the classroom by universities and colleges. C. Atkinson. 128p $1.50 Meador pub. co, Boston '42

Education on the air; twelfth yearbook of the Institute for education by radio. J. H. MacLatchy, ed. 358p $3 Ohio state univ, Columbus '41

Educational music broadcasts of 1941; a descriptive analysis and some recommendations. G. D. Wiebe and C. F. Church. 37p pa 20c Evaluation of school broadcasts, Ohio state univ, Columbus '42

Mutual Life people tell radio audience how to get ahead. East Underw 42:3 N 14 '41

Public school broadcasting to the classroom. C. Atkinson. 144p $1.50 Meador pub. co, Boston '42

Radio and college youth. H. Rowland. (Bul. 51) 30p pa 20c Evaluation of school broadcasts, Ohio state univ, Columbus '42

Radiobroadcasting and higher education. C. J. Friedrich and J. S. Smith. 81p pa $1 Radiobroadcasting research project, M-31 Littauer center, Harvard univ, Cambridge, Mass. '42

Radio in state and territorial educational departments. C. Atkinson. 136p $1.50 Meador pub. co, 324 Newbury st, Boston '42

Radio in the classroom; experimental studies in the production and classroom use of lessons broadcast by radio. A. S. Barr, H. L. Ewbank and T. C. McCormick. 203p $2 Univ. of Wisconsin press, 811 State st, Madison '42

Radio in the schools of Ohio. S. Reid. 57p pa 25c Evaluation of school broadcasts, Ohio state univ, Columbus '42

Radio network contributions to education. C. Atkinson. 128p $1.50 Meador pub. co, 324 Newbury st, Boston '42

Radio programs intended for classroom use. C. Atkinson. 128p $1.50 Meador pub. co, Boston '42

Teachers' manual and classroom guide, 1941-1942. L. A. Woods. 159p Texas school of the air, Dept. of radio and special education, State dept. of Education, Austin '41

Tune in for education; eleven years of education by radio. F. E. Hill. 109p Nat. committee on education by radio, 1 Madison av, New York '42

Bibliography

Bibliography on educational broadcasting. I. M. Cooper. 576p $5 Univ. of Chicago press '42

RADIO in forestry. See Radio telephone—Forestry service

RADIO in industry

Radio replaces employee publication; abstract. Management R 30:412 N '41

RADIO in safety education. See Radio broadcasting—Safety programs

RADIO instruments

Beginner's dynamic demonstrator can be used in teaching radiomen. D. Gnessin. il diags Radio N 27:30-1+ Ap; 26-7+ Je '42

Build this modern tube tester. R. B. Bockstiegel. il diags Radio N 27:18-20 F '42

Build this vacuum tube output meter. B. E. Long. il diag Radio N 27:18-19+ Je '42

Direct-reading impedance comparator. F. M. Leyden and W. R. Baker. diags Electronics 15:88+ N '42

Easily built signal tracer. T. Bradford. il diags Radio N 26:14-16+ D '41

Economy signal tracer. R. B. Frank. il diags Radio N 27:12-14+ Mr '42

Field strength meter for induction control. M. T. Putnam and S. F. Bushman. il diag Radio N 28:14-16+ Ag '42

Improved inter-electrode capacitance meter. A. A. Barco. il diag RCA R 6:434-42 Ap '42

Insulation resistance meter. T. J. Rehfisch. bibliog diags Wireless Eng 19:49-51 F '42

New conductivity meter; abstract. J. Grosskopf, W. Pützer and K. Vogt. Wireless Eng 19:471 O '42

Radio frequency coil analyzer. H. L. Poling. il diag Radio N 27:16-17+ Je '42

Radio-frequency device for detecting the passage of a bullet. C. I. Bradford. il diags Inst Radio Eng Proc 29:578-83 N '41

River stages sent, recorded by radio. L. Rinker. il Elec W 117:1378 Ap 18 '42

Sensitive measurement of impedance, reactance, frequency, and phase relationships with an electronic phase bridge. R. H. Brown. bibliog diags R Sci Instr 13:277-81 Jl '42; Abstract. Electronics 15:96+ N '42

Wide range, linear, unambiguous electronic phasemeter; abstract. J. E. Shepherd. Electronics 15:110-11 F '42

See also

Oscillators

Radio measurements

Radio meteorographs

RADIO interference. See Radio communication—Interference

RADIO laboratories

Aircraft radio labs. responsible for research, development, engineering, and inspection for equipment required by Army air corps. J. H. Gardner. il Radio N 27:8-9+ F '42

Signal Corps radio laboratory. R. V. D. Corput. il Radio N 27:24-5+ Ja '42

See also

Radio corporation of America—Laboratories

RADIO laws and regulations

Controlling broadcasting in wartime; a tentative public policy. C. J. Friedrich. 34p pa 50c Radiobroadcasting research project, Littauer center, Harvard univ, Cambridge, Mass. '40

FCC turns the dial. T. N. Sandifer. Pub Util 29:93-7 Ja 15 '42

Radio regulation; a case study in basic policy conflicts. H. S. Hettinger and W. A. Porter. Ann Am Acad 221:122-37 My '42

Radiocommunications; agreement between the United States of America and other American republics (revision of Habana radiocommunications arrangement of 1937) signed at Santiago, Chile, Jan. 26, 1940. 69p U. S. Dept. of state, Washington; pa 15c Supt. of doc. '42

See also

Federal communications commission

RADIO lines

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags plan maps Inst Radio Eng Proc 30:118-29 Mr '42

Concentric transmission line as harmonic filter. R. E. Snoddy. Electronics 15:68+ My '42; Discussion. S. Cutler. 15:156-7 N '42

Design chart for phase shifting and amplitude control networks. W. S. Duttera. Electronics 15:53-5 O '42

Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15: 34-41+ S '42

Frequency; characteristics of electromagnetic wave propagation undergo continuous changes and call for broader concepts. S. Ramo. diags Gen Elec R 45:557-67 O '42

General amplitude relations for transmission lines with unrestricted line parameters, terminal impedances, and driving point. R. King. bibliog Inst Radio Eng Proc 29:640-8 D '41

Graphs for transmission lines; reference sheet. B. Salzberg. Electronics 15:47-8 Ja '42

High-frequency coaxial-line calculations. H. H. Race and C. V. Larrick. bibliog Elec Eng 61:Trans 526-30 Jl '42

Impedance magnitude and phase shift curves; two-terminal three-element linear networks; reference sheet. V. L. Edutis. Electronics 15:76-8 N '42

L-type impedance transforming circuits. P. H. Smith. diags Electronics 15:48-52, 54+ Mr '42

Low-loss coaxial cable. diags Electrician 127: 345-6 D 19 '41

Propagation constant and characteristic impedance of high loss transmission lines. K. Spangenberg. Electronics 15:57-8 Ag '42

Symmetrical electrical systems; method of evaluating the transmission characteristics of four-terminal networks. E. S. Purington. diags Electronics 15:54-7 N '42 (to be cont)

See also

Radio antennas

Radio conductors

RADIO listeners

How war is changing reading and listening habits. B. Duffy. Adv & Sell 35:13-15+ My '42

Listening drops. Business Week p79-80 Jl 25 '42

Looking behind the radio dial; a new technique for radio audience measurements. C. E. Hooper. Ptr Ink 199:20+ My 15 '42

More reading, the more listening; pictograph. Sales Management 51:38 Ag 15 '42

1941 radio audience statistics. A. W. Lehman. Electronics 15:84+ Mr '42

Size of a radio-listener sample. C. E. Hooper. Ptr Ink 198:29+ Ja 2 '42

Variables causing inconsistencies between radio program audience ratings obtained by the day-part recall and by the coincidental methods. M. N. Chappell. 23p C. E. Hooper, 22 E. 40th st, New York '42

Wanted: a survey of people's views on radio commercials. Adv & Sell 35:21+ My '42

See also

Radio advertising—Coverage

RADIO loud speakers

Improvement of the reproduction of loudspeakers following multi-grid valves, by the use of the Boucherot connection; abstract. A. von Lüpke. Wireless Eng 19:477-8 O '42

Two or more loudspeakers at the amplifier output; abstract. E. de Gruyter. Wireless Eng 19:428-9 S '42

Use of loud-speaker fields as filter chokes. K. A. Pullen, jr. Elec Eng 61:388-9 Jl '42

See also

Loud speaking apparatus

RADIO manufacturers association

Fall meeting, Rochester, Nov. 10-12; abstracts of papers. Electronics 14:31-5+ D '41

RADIO measurements

Bolometer as a power meter at ultra-short waves; abstract. H. Meinke. Wireless Eng 19:484-5 O '42

Calculation of ground-wave field intensity over a finitely conducting spherical earth. K. A. Norton. bibliog charts Inst Radio Eng Proc 29:623-39 D '41

Cathode-ray oscillograph for frequency comparisons. diags Electronics 15:94+ Ap '42

Charts for the determination of the root-mean-square value of the horizontal radiation pattern of two-element broadcast antenna arrays. K. Spangenberg. Inst Radio Eng Proc 30:237-40 My '42

D-c substitution method of measuring high frequency attenuation; abstract. H. B. Noyes. diag Electronics 14:68 D '41

Distortion tests by the intermodulation method. J. K. Hilliard. diags Inst Radio Eng Proc 29:614-20 D '41

Experimental polyphase broadcasting. P. Loyet. il Inst Radio Eng Proc 30:218-21 My '42

Fluctuations of space-charge-limited currents in diodes. F. C. Williams. bibliog diag Inst E E J 88 pt 3:219-29; Discussion. 229-37 D '41

Frequency-modulation station monitor. H. R. Summerhayes, jr. il diags Inst Radio Eng Proc 30:399-404 S '42

General amplitude relations for transmission lines with unrestricted line parameters, terminal impedances, and driving point. R. King. bibliog Inst Radio Eng Proc 29:640-8 D '41

General radio co. output power meter. diag R Sci Instr 13:271-2 Je '42

Horizontal-polar-pattern tracer for directional broadcast antennas. F. A. Everest and W. S. Pritchett. il diags Inst Radio Eng Proc 30:227-32 My '42

Impedance-measuring instrument. C. E. Smith. diags Inst Radio Eng Proc 30:362-4 Ag '42

Measurement of ground conductivity; simplified technique for the dipole measuring method; abstract. J. Grosskopf and K. Vogt. Wireless Eng 19:470-1 O '42

Measurement of the attenuation and propagation velocity of electromagnetic oscillations in metallic tubes; abstract. A. Riedinger. Wireless Eng 19:66-7 F '42

Measurements of power factor and dielectric constant at ultra high frequencies. K. G. Coutlee and others. il Am Soc T M Proc 41:1172-82 '41

Measurements of the angle of arrival in the short-wave band of European stations: particularly at times of layer dissolution; abstract. J. Grosskopf and K. Vogt. Wireless Eng 19:213-14 My '42

Measurements on dipoles in the decimetric-wave region; abstract. P. Lange. Wireless Eng 18:465-6 N '41

Mechanical calculator for directional antenna patterns. W. G. Hutton and R. M. Pierce. il diags Inst Radio Eng Proc 30:233-7 My '42

Precision frequency comparisons. L. A. Meacham. diags Electronics 15:92+ Ap '42

Reactive component and variability with frequency of negative resistances; abstract. G. Francini. Wireless Eng 19:421 S '42

Receiver input connections for u-h-f measurements. J. A. Rankin. diags RCA R 6:473-81 Ap '42

RADIO measurements—*Continued*

Service area of medium-power broadcast stations. P. E. Patrick. bibliog diags Inst Radio Eng Proc 30:404-10 S '42

Standards on radio wave propagation; measuring methods. bibliog diags Inst Radio Eng Proc 30:1-16 pt2 Jl '42

Symmetrical electrical systems; method of evaluating the transmission characteristics of four-terminal networks. E. S. Purington. diags Electronics 15:54-7 N '42 (to be cont)

Technique of frequency measurement, and its application to telecommunications. J. E. Thwaites and F. J. M. Laver. bibliog diags Inst E E J 89 pt 3:139-65 S '42; Excerpts. Elec R (Lond) 130:435-6 Ap 3 '42; Abstract. Electrician 128:317-18 Ap 3 '42; Discussion. Inst E E J 89 pt 3:165-7 S '42

Ultra high frequency technique; measurements in the u-h-f spectrum. R. F. Lewis. bibliog diags Electronics 15:63-8 Ap '42

Velocity of radio waves over short paths. R. C. Colwell and others. Inst Radio Eng Proc 30:129-31 Mr '42

See also

Radio engineering—Tables, calculations, etc.

Radio frequency

Radio instruments

Voltmeters, Vacuum tube

RADIO meteorographs

Cosmic-ray radio sonde. H. V. Neher and W. H. Pickering. il diags R Sci Instr 13:143-7 Ap '42

Plastics competition award to Washington institute of technology. il Mod Plastics 19:138-9 N '41

RADIO modulation

Amplitude, frequency, and phase modulation relations. A. Hund. Electronics 15:48-54 S '42; Correction. 15:142 O '42

Experimental polyphase broadcasting. P. Loyet. il diags Inst Radio Eng Proc 30:213-22 My '42

Transmission characteristics of asymmetric-sideband communication networks; investigation primarily of interest in connection with television. E. C. Cherry. bibliog diags Inst E E J 89 pt 3:19-39 Mr '42; Excerpts. Electrician 127:333-4 D 12 '41; Discussion. Inst E E J 89 pt 3:39-42 Mr '42

See also

Radio frequency modulation

RADIO networks. See Radio lines

RADIO news. See Radio broadcasting—News

RADIO noise. See Radio communication—Interference; Radio receiving apparatus—Noise

RADIO operators

Aviation radio course. P. W. Karrol. il diags Radio N 27:12-13+ Ap; 28-9+ Je; 28:22-3+ Jl; 30-1+ Ag; 30-1+ S; 26-7+ O; 244+ N; 31+ D '42 (to be cont)

RADIO operators, Amateur

Amateur radio in civilian defense. F. E. Handy. il Radio N 27:66-7+ Ja '42

Amateur status. Radio N 27:4+ Je '42

A.A.R.S. (army amateur radio system). D. Talley. il Radio N 27:41-2+ Ja '42

Defense and the amateur. F. W. Stewart; S. G. Taylor. il Radio N 27:32-3+ F; 30-1+ Mr '42

Electronic gadgeteering may replace "hams" interest in communication. C. Golenpaul. Sci Am 167:28 Jl '42

NYA radio. il Radio N 27:62-5+ Ja '42

RADIO operators, Military

Civilian schools teach radio operators. P. R. Howland. il Radio N 28:10-13+ Ag '42

Radio men thoroughly trained in four months in the Naval reserve. il Sci Am 166:81-2 F '42

Radio training for the air forces; Scott Field, radio university of the air. J. R. Johnston. il Radio N 28:6-9+ Jl '42

Radio training in the Coast guard. R. Donohue. il Radio N 27:25-7+ My '42

RADIO plays

Radio handbook; suggestions for the radio director and technician. H. Tooley. 112p pa 75c Northwestern press, Minneapolis '41

RADIO receiving apparatus

Air raid alarm device. A. H. Vickerson and R. L. Gray. diag Elec Eng 61:496 S '42

Aircraft radio guards forests against saboteurs. S. R. Winters. il Aero Digest 41:101-2 Jl '42

Alert receiver circuits. R. P. Turner. il diags Radio N 27:28-9, 56-9 My '42

AC set for the beginner. F. U. Dillion. il diag Radio N 27:14-15 Ap '42

Automatic air raid monitor warns Boston police transmitter operators when a local broadcast station transmits air raid warning tone. diag Electronics 15:60+ Jl '42

Automatic monitoring circuit; monitoring programs to intercept air raid warnings; any type of receiver with automatic volume control will operate device. F. Marx. il diag Electronics 15:39, 96 Mr '42

Aviation radio; Bendix aircraft radio receiver; other receivers. C. J. Schauers. il Radio N 27:25+ F; 28+ Mr '42

Build your own FM-AM receiver. W. T. Peterson. il diag Radio N 27:10-12+ Je '42

Change in weight of materials of construction in two 1942 radio receivers from 1940 practice; tabulation. D. D. Israel. Electronics 14:35 D '41

Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:45-8 Ja '42

Everybody's radio manual; how to build and repair radio receivers. 256p $1 Grosset & Dunlap, New York '42

First radio book for boys. A. P. Morgan. 192p $2 Appleton-Century '41

How to modernize radios for profit. M. N. Beitman. 32p pa $1; to libraries 50c Supreme publications, 3727 W. 13th st, Chicago '42

Impedance matching on a sound basis. B. E. Philippsen. diags Radio N 27:18-19+ Ap '42

Low-cost receiver. G. Ellsworth. il diags Radio N 27:26-7+ F '42

Most-often-needed General electric radio diagrams and servicing information. M. N. Beitman, comp. 64p pa 50c Supreme publications, 3727 W. 13th st, Chicago '41

Most-often-needed 1942 radio diagrams and servicing information. M. N. Beitman. 192p pa $2 Supreme publications, 3727 W. 13th st, Chicago '42

Non-metal shieldings; use of colloidal graphite. B. H. Porter. diags Radio N 28:33+ Ag '42

Panoramic reception for increased receiving efficiency; panoramic spectroscope adapter; continuous indication of radio signals within plus or minus 50 kc of tuned frequency of receiver. il diag Electronics 14:36-7+ D '41

Phase inverters and feedback. M. T. Putnam. diags Radio N 27:20-3+ Ap '42

Radio and the victory program; effect on production of receivers and on associated components for civilian use. L. Winner. il Radio N 27:9-11+ Mr '42

Radio progress during 1941; radio receivers. bibliog Inst Radio Eng Proc 30:64-5 F '42

Receiver oscillation. J. Keating. diags Radio N 27:10+ F '42

Receiver tube operation in aircraft. J. E. M. Lagasse and W. W. H. Dean. Electronics 14:56+ N '41

Relaxation amplifier. M. Wald. diags Wireless Eng 18:483-91 D '41

Silent air raid wardens. T. Healy. il diag Radio N 28:17+ Ag '42

Simple expander. W. Bacon. diags Electronics 14:50+ D '41

Some general considerations in the purchase of a radio for Christmas; with special consideration of the problem of the new FM radio receivers. Consumers' Research Bul 9:13-14+ N '41

RADIO receiving apparatus—*Continued*

Tropical troubles of radio receivers. H. C. Schwalm. Electronics 15:126-8 Mr '42

See also

Amplifiers, Vacuum tube
Direction finding apparatus
Radio apparatus industry
Television receiving apparatus

B batteries

See Radio receiving apparatus—Power supply

Control

Low-frequency signals operate receiver. il diag Elec W 117:2090 Je 13 '42
Modern tone control circuits. L. J. Markus. il diags Radio N 28:12-15+ S '42
Oscillator for remote frequency control. H. C. Lawrence. diags Electronics 15:42-3 S '42

Design

Civilian receiver design in 1942. D. D. Israel. Inst Radio Eng Proc 29:649-53 D '41
Tropical receiver design. M. J. H. Lemmon. diag Inst E E J 89 pt 1:321-2 Jl '42

Fidelity

Hi-fi receiver. J. Marshall. il diags Radio N 27:16-18+ Mr '42

Frequency modulation adapters

Receiving FM programs with regular broadcast receivers. Consumers' Research Bul 9:21 Je '42

Frequency modulation receivers

Common-channel interference between two frequency-modulated signals. H. A. Wheeler. diags Inst Radio Eng Proc 30:34-50 Ja '42
Constructing an ac-dc FM receiver. P. T. Williamson. il diag Radio N 26:21-3+ D '41
FM's record sales. Business Week p50+ N 22 '41
Receiver input connections for u-h-f measurements. J. A. Rankin. diags RCA R 6:473-81 Ap '42
Some general considerations in the purchase of a radio for Christmas; with special consideration of the problem of the new FM radio receivers. Consumers' Research Bul 9:13-14+ N '41
Transients in frequency modulation. H. Salinger. Inst Radio Eng Proc 30:378-83 Ag '42
Use of vacuum tubes as variable impedance elements. H. J. Reich. bibliog diags Inst Radio Eng Proc 30:288-93 Je '42

Manufacture

Replacements developed in the radio manufacturing field. Sci Am 166:14 Ja '42

Noise

Absolute sensitivity of radio receivers. D. O. North. bibliog diags RCA R 6:332-43 Ja '42
Analysis of the signal-to-noise ratio of ultra-high-frequency receivers. E. W. Herold. bibliog diags RCA R 6:302-31 Ja '42
Circuit for neutralizing low-frequency regeneration and power-supply hum. W. Pan. diags Inst Radio Eng Proc 30:411-12 S '42
Effect of fluctuation voltages on the linear detector. J. R. Ragazzini. diags Inst Radio Eng Proc 30:277-88 Je '42
Evaluation of radio-noise-meter performance in terms of listening experience. C. M. Burrill. diag Inst Radio Eng Proc 30:473-8 O '42
Low-capacitance a-c power supplies. G. Mountjoy and C. W. Finnigan. diags RCA R 6:455-62 Ap '42
Sensitivity in visual reception and instrument observation; abstract. K. Fränz. Wireless Eng 19:177-8 Ap '42
Standards on radio wave propagation; methods of measuring noise field intensity. bibliog Inst Radio Eng Proc 30:15-16 pt2 Jl '42
Ultra high frequency technique; ultrahigh frequency reception and receivers. B. Dudley. diags Electronics 15:51-3 Ap '42

Power supply

Battery substitutions for portables. G. Garvin. il Radio N 28:28-9+ Jl '42
General Electric dynamotors for communication systems. il Radio N 28:38 Ag '42
Half-wave voltage-doubling rectifier circuit; abstract. C. H. Gleason and W. D. Waidelich. diags Electronics 15:72+ Ag '42
Low-capacitance a-c power supplies. G. Mountjoy and C. W. Finnigan. diags RCA R 6:455-62 Ap '42
Power transformer design. W. A. Stocklin. diags Radio N 28:28-9+ Ag; 32-3 S '42 (to be cont)
Weightless power supplies; voltage-doubler. F. Shunaman. diags Radio N 27:11+ F '42

Rating

1942 console-model radio receivers. Consumers' Research Bul 9:11-14, 20 Mr; 16 Je '42

Renting

Making sales out of rentals. F. E. Kunkel. il Radio N 28:36 Jl '42

Repair

Radio troubleshooter's handbook. A. A. Ghirardi. 2d ed rev & enl 708p $3.50 Radio & technical pub. co, New York '41
Sample statement showing method which shops servicing electrical and gas appliances and radios must file with local War price and rationing board. Am Gas J 157:50-1 O '42
Servicemen's case histories (cont). A. A. Ghirardi. Radio N 26:40+ D '41

See also

Radio service shops

Sensitivity

Absolute sensitivity of radio receivers. D. O. North. bibliog diags RCA R 6:332-43 Ja '42
Sensitivity in visual reception and instrument observation; abstract. K. Fränz. Wireless Eng 19:177-8 Ap '42

Short wave

Analysis of the signal-to-noise ratio of ultra-high-frequency receivers. E. W. Herold. bibliog diags RCA R 6:302-31 Ja '42
Mobile 30-40 Mc receiver for the U.S. Forest service. H. K. Lawson and L. M. Belleville. il diag Electronics 15:22-5+ Ja '42
Nazi aircraft radio. J. H. Jupe. il Electronics 15:58-9+ N '42
Orbital-beam secondary-electron multiplier for ultra-high-frequency amplification. H. M. Wagner and W. R. Ferris. il diags Inst Radio Eng Proc 29:598-602 N '41
Short-wave manual; a treatise on the design, construction, operation and adjustment of short- and ultra-short-wave receivers, aerials, and equipment. F. J. Camm, ed. 213p $2.50 Chemical pub. co. '42
Ultrahigh frequency antenna coupling unit. R. D. Rietzke. diag Electronics 14:74+ N '41
Ultra high frequency technique; ultrahigh frequency reception and receivers. B. Dudley. bibliog diags Electronics 15:51-5 Ap '42

Superheterodyne

Build this time signal receiver. D. W. Jeffries. il diag Radio N 28:28-9+ S '42
Intermediate frequency stability. J. J. Adams. Electronics 15:166-7 Je '42
Operation of frequency converters and mixers for superheterodyne reception. E. W. Herold. bibliog(54 titles) diags Inst Radio Eng Proc 30:84-103 F '42
Superhet manual; a handbook dealing with principles, design and servicing. F. J. Camm, ed. 135p $2.50 Chemical pub. co. '42
Superheterodyne receiver tracking. G. W. O. Howe. diags Wireless Eng 19:141-2 Ap '42
Superheterodyne tracking charts. A. L. Green and R. Payne-Scott. bibliog diags Wireless Eng 19:243-50, 290-302 Je-Jl '42
Superheterodyne tracking simplified; use of chart. P. C. Gardiner. diag chart Electronics 15:74-5 N '42
Superheterodyne tracking solution. R. De Cola. diags Electronics 15:29-30+ F '42

RADIO receiving apparatus—*Continued*

Testing

Build this vacuum tube output meter. B. E. Long. il diag Radio N 27:18-19+ Je '42

Easily built signal tracer. T. Bradford. il diags Radio N 26:14-16+ D '41

Economy signal tracer. R. B. Frank. il diags Radio N 27:12-14+ Mr '42

Wide-band high-frequency sweep generator. E. J. H. Bussard and T. J. Michel. il diags Electronics 15:58-9 My '42

Tuning

Eddy current tuning. C. C. Eaglesfield. diags Wireless Eng 19:202-9 My '42

Short-wave spread bands in automobile and home receivers. D. E. Foster and G. Mountjoy. diags Inst Radio Eng Proc 30:222-7 My '42

Superheterodyne tracking charts. A. L. Green and R. Payne-Scott. bibliog diags Wireless Eng 19:243-50, 290-302 Je-Jl '42

Theory and practice of disc recording; design of an inexpensive tuner. O. Read. il diag Radio N 28:24-5 Jl '42

Use of vacuum tubes as variable impedance elements. H. J. Reich. bibliog diags Inst Radio Eng Proc 30:288-93 Je '42

RADIO receiving apparatus, Portable

Battery substitutions for portables. G. Garvin. il Radio N 28:28-9+ Jl '42

Emergency portable for existing channels. O. Read. il diags Radio N 28:24-5, 52-3 Ag '42

Mobile 30-40 Mc receiver for the U.S. Forest service. H. K. Lawson and L. M. Belleville. il diag Electronics 15:22-5+ Ja '42

Public utility emergency radio system; Montana power company gas and electric departments. W. H. Blankmeyer. il Electronics 15:65+ My '42

Radio for blackouts and power line failures; air raid precautions. P. T. Williamson. il Radio N 27:51+ My '42

Radio in the infantry. il Radio N 27:30-3+ Ja '42

Radio transmitter and receiver not much larger than the handset of French telephone; Trans-Ceiver. il Gen Elec R 45:248 Ap '42

Rating

Portable radio of exceptional usefulness; General Electric, model LB-530X. Consumers' Research Bul 9:22 Ap '42

RADIO reception

Inclined rhombic antenna for reducing the effect of fading. C. W. Harrison, jr. Inst Radio Eng Proc 30:241-4 My '42

See also

Radio antennas

RADIO rectifiers

Weightless power supplies; voltage-doubler. F. Shunaman. diags Radio N 27:11+ F '42

See also

Radio condensers

Radio filters

RADIO research

Cosmic static. G. Reber. il diags Inst Radio Eng Proc 30:367-78 Ag '42

Harmonic distortion in audio-frequency transformers. N. Partridge. diags Wireless Eng 19:394-400, 451-6, 503-7 S-N '42

Radio corporation of America; dedication of the laboratories at Princeton, N.J. Science 96:325-9 O 9 '42

Radio research, 1941. P. F. Lazarsfeld and F. N. Stanton, eds. 333p $2.50 Duell, Sloan and Pearce, New York '41

Research and research workers. Wireless Eng 19:391-3 S '42

Research work on the speed of wireless waves; abstracts. R. L. Smith-Rose. diags Electrician 129:415-18 O 16 '42; Elec R (Lond) 131:484-5 O 16 '42

War! stimulus for inventions. A. Toombs. Radio N 27:13+ Je '42

See also

Radio laboratories

RADIO schools and training

Beginner's dynamic demonstrator can be used in teaching radiomen. D. Gnessin. il diags Radio N 27:30-1+ Ap; 26-7+ Je '42

CCC networks. S. C. Manning, jr. il Radio N 27:68-70 Ja '42

Civilian radio army; Signal corps training courses. A. Toombs. il Radio N 28:10-13+ Jl '42

Civilian schools teach radio operators. P. R. Howland. il Radio N 28:10-13+ Ag '42

Leathernecks pound brass; Marine corps is equipping its force with radio equipment. J. V. Sandberg. il Radio N 27:44-5 My '42

NYA radio. il Radio N 27:62-5+ Ja '42

Radio in the armored force. J. M. Askew. il Radio N 27:34-8+ Ja '42

Radio in the Marine corps. J. G. Smith. il Radio N 27:54-6+ Ja '42

Radio training for the air forces; Scott Field, radio university of the air. J. R. Johnston. il Radio N 28:6-9+ Jl '42

Radio training in the Coast guard. R. Donohue. il Radio N 27:25-7+ My '42

Training centers; Signal corps school. G. L. Van Deusen. il Radio N 27:20-3+ Ja '42

RADIO service shops

As I see it! (cont) J. Rider. Radio N 27:15+ F '42

Electronic control; new business for servicemen. W. Moody. il diags Radio N 28:34-5+ Jl '42

Making sales out of rentals. F. E. Kunkel. il Radio N 28:36 Jl '42

Radio servicemen can help win the war; opportunities in defense. S. Milbourne. Radio N 27:17, 44-6 F '42

Selling service by 3-way formula. E. Conklin. il Radio N 28:33 Jl '42

Serviceman and the new rulings; questions and answers for those having trouble in getting parts for radio repairs. L. W. Martin. Radio N 28:27+ Jl '42

Serviceman reaches war age; emergency announcements will come over radio stations at time of greatest importance; civilian sets must be operating. R. P. Turner. il Radio N 27:15+ Mr '42

War-time radio service problems. S. C. Milbourne. il Radio N 27:20-1+ Mr '42

RADIO signals

Civilian air raid warning. T. J. Taaffe, jr. il diag Radio N 27:30-2, 69-70 My '42

Common-channel interference between two frequency-modulated signals. H. A. Wheeler. diags Inst Radio Eng Proc 30:34-50 Ja '42

Panoramic reception for increased receiving efficiency; panoramic spectroscope adapter; continuous indication of radio signals within plus or minus 50 kc of tuned frequency of receiver. il diag Electronics 14:36-7+ D '41

Response of reactive networks to frequency-modulated signals. J. D. Weston. Wireless Eng 19:251-3 Je '42

Sources of spurious radiations in the field of two strong signals. A. J. Ebel. Inst Radio Eng Proc 30:81-4 F '42

See also

Direction finding apparatus

RADIO sonde. See Radio meteorographs

RADIO standards

Secondary frequency standard using regenerative frequency-dividing circuits. F. R. Stansel. diag Inst Radio Eng Proc 30:157-62 Ap '42

Standards on facsimile; definitions of terms. Inst Radio Eng Proc 30:1-6 pt4 Jl '42

Standards on radio wave propagation; definitions of terms. Inst Radio Eng Proc 30:1-8 pt3 Jl '42

Standards on radio wave propagation; measuring methods. bibliog diags Inst Radio Eng Proc 30:1-16 pt2 Jl '42

RADIO standards—*Continued*

Technique of frequency measurement, and its application to telecommunications. J. E. Thwaites and F. J. M. Laver. bibliog diags Inst E E J 89 pt 3:139-65; Discussion. 165-7 S '42

See also Radio broadcasting—Frequency standards

RADIO stations

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

See also

Radio broadcasting stations

Emergency stations

Civilian defense communications; War emergency radio service plan. Electronics 15: 103 Jl '42

Emergency FM-AM systems. L. Winner. il Radio N 28:6-9+ S '42

Radio control in gas operating departments. J. P. Neill. Gas Age 89:12+ Ap 23 '42

Radio for flood emergencies; Los Angeles County flood control district control works. M. E. Kennedy. il Eng N 128:353-4 F 26 '42

RADIO stations, Government

Uncle Sam's FCC stations on the job. Radio N 27:40 Ap '42

RADIO telegraph

Build this automatic code machine. F. Petraglia. il diags Radio N 27:24-5+ Mr '42

Class C telegraphy; the graphical determination of optimum operating conditions for transmitting valves. D. G. Prinz and R. G. Mitchell. Wireless Eng 19:401-7 S '42

Diplex; arrangement for transmitting two messages simultaneously with one transmitting equipment; developed by Transradio internacional of Argentina. P. J. Noizeux, H. Krähenbühl and B. Noviks. il diags Inst Radio Eng Proc 29:609-13 D '41

Learning the radiotelegraph code. J. Huntoon. 34p pa 25c Am. radio relay league, 38 LaSalle road, West Hartford, Conn. '42

Opens radio circuit; U.S. to New Zealand; President's and Prime Minister's greetings. Comm & Fin Chr 155:961 Mr 5 '42

Public radio-telegraph traffic in U.S. closed. Comm & Fin Chr 155:2207 Je 11 '42

Radio code manual; twenty lessons on the radio code and selected projects on code-learning equipment. A. R. Nilson. 174p pa $2 McGraw-Hill '42

See also

Amplifiers, Vacuum tube
Electric waves
Radio apparatus
Radio communication
Radio measurements
Radio transmitters
Vacuum tubes

Police uses

Our police radio telegraph networks. A. A. Curry. il map Radio N 27:40-1+ My '42

RADIO telephone

See also

Amplifiers, Vacuum tube
Motor bus lines—Radio telephone
Radio apparatus
Radio broadcasting
Radio communication
Radio receiving apparatus
Radio stations
Street railroads—Radio telephone
Telephone, Carrier current
Vacuum tubes

Forestry service

Aircraft radio guards forests against saboteurs. S. R. Winters. il Aero Digest 41: 101-2 Jl '42

Mobile 30-40 Mc receiver for the U.S. Forest service. H. K. Lawson and L. M. Belleville. il diag Electronics 15:22-5+ Ja '42

Radio-equipped smoke jumpers; parachuting forest fire fighters. S. R. Winters. il Radio N 27:6-8+ Ap '42

Radio for forest protection. C. E. Jackson. il Radio N 27:46-8+ My '42

WSEL protects Blue Ridge parkway. S. R. Winters. il Radio N 26:29-30+ D '41

Highway department uses

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

Police uses

Oakland is prepared. il Elec West 89:64-5 Ag '42

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

Police radio nets. L. S. Fetcher. il Radio N 27:74+ Ja '42

Simple uni-directional carrier-current communicator. J. L. Smith. diags Electronics 15:54 F '42

Standby filament saver for police transmitters. J. E. Wagenseller. diag Electronics 15:65 My '42

Transoceanic

Future of transoceanic telephony. O. E. Buckley. Bell System Tech J 21:6-19 Je '42; Same. Inst E E J 89 pt 1:456-61 O '42; Same cond. Engineering 153:377, 384-5 My 8-15 '42; Abstracts. Electrician 128:415-18 My 1 '42; Elec R (Lond) 130:559-61 My 1 '42

RADIO transformers

Harmonic distortion in audio-frequency transformers. N. Partridge. diags Wireless Eng 19:394-400, 451-6, 503-7 S-N '42

Power transformer design. W. A. Stocklin. diags Radio N 28:28-9+ Ag; 32-3 S '42 (to be cont)

RADIO transmission

Calculation of ground-wave field intensity over a finitely conducting spherical earth. K. A. Norton. bibliog charts Inst Radio Eng Proc 29:623-39 D '41

Diplex; arrangement for transmitting two messages simultaneously with one transmitting equipment; developed by Transradio internacional of Argentina. P. J. Noizeux, H. Krähenbühl and B. Noviks. il diags Inst Radio Eng Proc 29:609-13 D '41

General amplitude relations for transmission lines with unrestricted line parameters, terminal impedances, and driving point. R. King. bibliog Inst Radio Eng Proc 29:640-8 D '41

Hearing, the determining factor for high-fidelity transmission. H. Fletcher. bibliog diags Inst Radio Eng Proc 30:266-77 Je '42

Induction control for experimenters; induction transmission becoming increasingly popular. W. T. Peterson. diag Radio N 28: 20-1 Jl '42

Ionospheric investigations at Huancayo magnetic observatory (Peru) with applications to wave transmission theory; abstract. H. W. Wells. Electronics 15:33-4 F '42

Microwave transmission. J. C. Slater. 309p $3.50 McGraw-Hill '42

More symmetrical Fourier analysis applied to transmission problems. R. V. L. Hartley. bibliog Inst Radio Eng Proc 30:144-50 Mr '42

New field intensity recorder. H. W. Kline. il diag Electronics 15:50+ Ja '42

Propagation of surface waves over stratified and uneven ground and the derivation of a modified Zenneck wave; abstract. J. Grosskopf. Wireless Eng 19:169-71 Ap '42

Resonance problems; examples of their practical bearing. T. F. Wall. diags Elec R (Lond) 130:686-8 My 29 '42

Symmetrical electrical systems; method of evaluating the transmission characteristics of four-terminal networks. E. S. Purington. diags Electronics 15:54-7 N '42 (to be cont)

Transmission characteristics of asymmetric-sideband communication networks; investigation primarily of interest in connection with television. E. C. Cherry. bibliog diags Inst E E J 89 pt 3:19-39; Discussion. 39-42 Mr '42

RADIO transmission—*Continued*

Velocity of radio waves over short paths. R. C. Colwell and others. Inst Radio Eng Proc 30:129-31 Mr '42

See also

Radio antennas
Radio broadcasting
Radio communication—Interference
Radio lines
Radio modulation
Radio transmitters
Radio waves

Bibliography

Radio progress during 1941; radio wave propagation. Inst Radio Eng Proc 30:68-9 F '42

Fading

Atmospheric-electric disturbances accompanying the bright auroras of March 25, 1940, and Sept. 18, 1941. H. T. Stetson. Science 94:574-8 D 19 '41

Inclined rhombic antenna for reducing the effect of fading. C. W. Harrison, jr. Inst Radio Eng Proc 30:241-4 My '42

RADIO transmitters

Class C telegraphy; the graphical determination of optimum operating conditions for transmitting valves. D. G. Prinz and R. G. Mitchell. Wireless Eng 19:401-7 S '42

Electrical developments of 1941. G. Bartlett. il Gen Elec R 45:45-8 Ja '42

Experimental polyphase broadcasting. P. Loyet. il diag Inst Radio Eng Proc 30:215-17 My '42

Measurement of the electric rotating field in the near field of a transmitter; abstract. J. Grosskopf and K. Vogt. Wireless Eng 19:478-9 O '42

New air-cooled 5-kilowatt broadcast transmitter. F. W. Fischer. il diags Inst Radio Eng Proc 30:72-5 F '42

Non-metal shieldings; use of colloidal graphite. B. H. Porter. diags Radio N 28:33+ Ag '42

Radio progress during 1941; radio transmitters and transmitting antennas. bibliog Inst Radio Eng Proc 30:62-4 F '42

Review of technical developments in broadcasting. H. Bishop. il Inst E E J 89 pt 1:45-8 Ja '42

Zenneck rotating field in the ground-wave field of a transmitter; abstract. J. Grosskopf. Wireless Eng 19:469-70 O '42

See also

Direction finding apparatus
Radio beacons

Frequency modulation transmitters

Grounded plate amplifier for the F-M transmitter. A. A. Skene. diags Electronics 15:106+ N '42

Modern 10-kw frequency-modulation transmitter. E. S. Winlund and C. S. Perry. bibliog il diag Electronics 15:40-3 Mr '42

New frequency-modulation broadcasting transmitter. A. A. Skene and N. C. Olmstead. il diags Inst Radio Eng Proc 30:330-5 Jl '42

Reactance tubes in F-M applications. A. Hund. diags Electronics 15:68-71+ O '42

Stabilized frequency-modulation system. R. J. Pieracci. il diags Inst Radio Eng Proc 30:76-80, 151 F-Mr '42; Abstract. Electronics 15:34+ F '42

Ten kw F-M transmitter; abstract. E. S. Winlund and C. S. Perry. Electronics 15:116 F '42

Zero-beat method of frequency discrimination. C. F. Sheaffer. diags Inst Radio Eng Proc 30:365-7 Ag '42

Power supply

Characteristic curves of the triode. E. L. Chaffee. bibliog diags Inst Radio Eng Proc 30:383-95 Ag '42

Design chart for phase shifting and amplitude control networks. W. S. Duttera. Electronics 15:53-5 O '42

General Electric dynamotors for communication systems. il Radio N 28:38 Ag '42

Power amplifier plate tank circuits. A. B. Newhouse. diags Electronics 14:32-5 N '41

Program-operated level-governing amplifier. W. L. Black and N. C. Norman. il Inst Radio Eng Proc 29:573-8 N '41

Standby filament saver for police transmitters. J. E. Wagenseller. diag Electronics 15:65 My '42

Short wave

CBS international broadcast facilities. A. B. Chamberlain. bibliog diags Inst Radio Eng Proc 30:120-4 Mr '42; Same cond. Electronics 14:30-1 Jl '41

Design and development of three new ultra-high-frequency transmitting tubes. C. E. Haller. bibliog il diag Inst Radio Eng Proc 30:20-6 Ja '42

Nazi aircraft radio. J. H. Jupe. il Electronics 15:58-9+ N '42

New direct crystal-controlled oscillator for ultra-short-wave frequencies. W. P. Mason and I. E. Fair. il diags Inst Radio Eng Proc 30:464-72 O '42

Testing

Distortion tests by the intermodulation method. J. K. Hilliard. diags Inst Radio Eng Proc 29:614-20 D '41

Field strength meter for induction control. M. T. Putnam and S. F. Bushman. il diag Radio N 28:14-16+ Ag '42

Transmitter production test. diag Electronics 15:94 Ag '42

RADIO transmitters, Portable

Emergency portable for existing channels. O. Read. il diags Radio N 28:24-5, 52-3 Ag '42

Lifeboat transmitters; regulations of the Federal communications commission. Electronics 15:96 Jl '42

Public utility emergency radio system; Montana power company gas and electric departments. W. H. Blankmeyer. il Electronics 15:65+ My '42

Radio in the infantry. il Radio N 27:30-3+ Ja '42

Radio transmitter and receiver not much larger than the handset of French telephone; Trans-Ceiver. il Gen Elec R 45:248 Ap '42

RADIO tubes. See Vacuum tubes

RADIO waves

Calculation of ground-wave field intensity over a finitely conducting spherical earth. K. A. Norton. bibliog charts Inst Radio Eng Proc 29:623-39 D '41

Contribution to the theory of the Zenneck field inclination to the surface of the earth; abstract. O. Schriever. Wireless Eng 19:70 F '42

Electrical concepts at extremely high frequencies. S. Ramo. il diags Elec Eng 61:461-4 S '42

Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15:34-41+ S '42

Electromagnetic waves in metal tubes of rectangular cross-section. J. Kemp. bibliog diags Inst E E J 88 pt 3:213-18 S '41; Abstract. Wireless Eng 19:93-6 Mr '42

Excitation of cavity resonators by saw-tooth oscillations; abstract. W. Ludenia. Wireless Eng 19:422-3 S '42

Frequency; characteristics of electromagnetic wave propagation undergo continuous changes and call for broader concepts. S. Ramo. diags Gen Elec R 45:557-67 O '42

General amplitude relations for transmission lines with unrestricted line parameters, terminal impedances, and driving point. R. King. bibliog Inst Radio Eng Proc 29:640-8 D '41

Graphical analysis of saw tooth waves. U. R. Furst. diag Electronics 15:49-50 Jl '42

Limiting waves and scattering in wireless propagation; abstract. B. Beckmann, W. Menzel and F. Vilbig. Wireless Eng 19:212-13 My '42

More symmetrical Fourier analysis applied to transmission problems. R. V. L. Hartley. bibliog Inst Radio Eng Proc 30:144-50 Mr '42

Position finding by waves. Engineer 173:360-1 My 1 '42

Practical radio course. A. A. Ghirardi. il diags Radio N 27:28+ F; 29+ Mr; 29+ Ap '42

RADIO waves—*Continued*

Propagation of electric waves through a metallic tube and between two parallel metallic plates; abstract. K. F. Lindman. Wireless Eng 19:467-8 O '42

Propagation of electromagnetic waves in a magnetised medium, for vertical incidence [and the question of secondary splitting] abstract. K. Försterling. Wireless Eng 19: 313 Jl '42

Propagation of surface waves over stratified and uneven ground and the derivation of a modified Zenneck wave; abstract. J. Grosskopf. Wireless Eng 19:169-71 Ap '42

Propagation velocity of the energy of monochromatic electromagnetic waves in dielectric media; abstract. F. Borgnis. Wireless Eng 19:67 F '42

Radiation energy and earth absorption for dipole antennae. A. Sommerfeld and F. Renner. diag Wireless Eng 19:351-9, 409-14, 457-62 Ag-O '42

Radio progress during 1941; radio wave propagation. bibliog Inst Radio Eng Proc 30:68-9 F '42

Research work on the speed of wireless waves; abstracts. R. L. Smith-Rose. diags Electrician 129:415-18 O 16 '42; Elec R (Lond) 131:484-5 O 16 '42

Standards on radio wave propagation; definitions of terms. Inst Radio Eng Proc 30:1-8 pt3 Jl '42

Standards on radio wave propagation; measuring methods. bibliog diags Inst Radio Eng Proc 30:1-16 pt2 Jl '42

Steady-state analysis of multiconductor transmission lines. L. A. Pipes. bibliog J Ap Phys 12:782-99 N '41

Transients in frequency modulation. H. Salinger. Inst Radio Eng Proc 30:378-83 Ag '42

Transmission characteristics of asymmetric-sideband communication networks; investigation primarily of interest in connection with television. E. C. Cherry. bibliog diags Inst E E J 89 pt 3:19-39 Mr '42; Excerpts. Electrician 127:333-4 D 12 '41; Discussion. Inst E E J 89 pt 3:39-42 Mr '42

Ultra high frequency technique; radiating systems and wave propagation. A. G. Kandoian. bibliog diags Electronics 15:39-44 Ap '42

Velocity of radio waves over short paths. R. C. Colwell and others. Inst Radio Eng Proc 30:129-31 Mr '42

Wave form circuits for cathode ray tubes. H. M. Lewis. diags Electronics 15:44-8+ Jl; 48-53 Ag '42

Zenneck rotating field in the ground-wave field of a transmitter; abstract. J. Grosskopf. Wireless Eng 19:469-70 O '42

See also
Electric waves
Radio transmission

RADIO workers

Aviation radio course. P. W. Karrol. il diags Radio N 27:12-13+ Ap; 28-9+ Je; 28:22-3+ Jl; 30-1+ Ag; 30-1+ S; 26-7+ O; 244+ N; 31+ D '42 (to be cont)

Civilian radio army; Signal corps training courses. A. Toombs. il Radio N 28:10-13+ Jl '42

Civilian schools teach radio operators. P. R. Howland. il Radio N 28:10-13+ Ag '42

Encouraging employee thinking; RCA system. R. Newcomb. Aviation 41:74-5+ My '42

Radio servicemen can help win the war; opportunities in defense. S. Milbourne. Radio N 27:17, 44-6 F '42

Signal corps maintenance; demand for radio mechanics. L. Winner. il Radio N 28:7-9 Ag '42

Urgent need for radio men. L. Winner. il Radio N 27:8-9+ Je '42

What servicemen can do to aid our war effort. J. F. Rider. il Radio N 27:21, 60-3 My '42

RADIOACTIVE substances

Autoradiography of ores. C. Goodman and D. C. Picton. il Phys R 60:688 N 1 '41

Distribution of helium and radioactivity in rocks; mineral separates from the Cape Ann granite. N. B. Keevil. bibliog Am J Sci 240:13-21 Ja '42

Distribution of helium and radioactivity in rocks; radioactivity and petrology of some California intrusives. E. S. Larsen and N. B. Keevil. Am J Sci 240:204-15 Mr '42

Geological applications of nuclear physics. C. Goodman. bibliog(52 titles) il diags J Ap Phys 13:276-89 My '42

Isolation of radioactive yttrium and some of its properties in minute concentrations. J. D. Kurbatov and M. H. Kurbatov. bibliog J Phys Chem 46:441-57 Ap '42

Large scale extraction of polonium from active lead and formation of radioactive electrode alloys. J. H. Dillon and J. N. Street. bibliog il J Ap Phys 13:189-98 Mr '42

Radio-elements in non-equilibrium systems. W. D. Urry. bibliog Am J Sci 240:426-36 Je '42

See also
Radioactivity
Radium
Thorium
Uranium

RADIOACTIVITY

Absorption and distribution of insulin labelled with radioactive iodine. L. Reiner, A. S. Keston and M. Green. Science 96:362-3 O 16 '42

Artificial radioactive isotopes of thallium, lead, and bismuth. K. Fajans and A. F. Voigt. Phys R 60:619-25 N 1 '41

Beta-ray spectra of arsenic, rubidium, and krypton. G. L. Weil. bibliog diag Phys R 62:229-37 S 1 '42

Disintegration schemes of radioactive substances; Fe^{59}. M. Deutsch and others. bibliog diags Phys R 62:3-7 Jl 1 '42

Disintegration schemes of radioactive substances; I^{131}. J. R. Downing, M. Deutsch and A. Roberts. bibliog Phys R 61:686-91 Je 1 '42

Energy of gamma-rays accompanying the decay of Be^7. I. Zlotowski and J. H. Williams. bibliog Phys R 62:29-32 Jl 1 '42

Exchange of radioactive silver with silver chloride suspensions. A. Langer. bibliog diag J Chem Phys 10:321-7 Je '42

Experimental evidence for the existence of a neutrino. J. S. Allen. bibliog diag Phys R 61:692-7 Je 1 '42

Forbidden transitions in β-decay and orbital electron capture and spins of nuclei. R. E. Marshak. bibliog Phys R 61:431-49 Ap 1 '42

Locating cased-off productive zones; radioactivity logging. W. A. Sawdon. Pet Eng 13:55-6, 58 My '42

Nuclear excitations resulting from radioactive decay. E. H. Plesset. bibliog il Phys R 62:181-6 S 1 '42

Nuclear photo-effect on sulphur, aluminum, and magnesium. O. Huber and others. Phys R 60:910 D 15 '41

Physics scores an assist; particle detector, with cyclotron, gives medicine a powerful tool. J. V. Sheppard. il Sci Am 165:315-17 D '41

Preparation and properties of long-lived radio-chlorine. D. C. Grahame and H. J. Walke. bibliog Phys R 60:909 D 15 '41

Pseudoscalar mesotron theory of β-decay. E. C. Nelson. bibliog Phys R 60:830-3 D 1 '41

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

Radioactive isotopes of cobalt. J. J. Livingood and G. T. Seaborg. bibliog Phys R 60:913 D 15 '41

Radioactive isotopes of mercury. C. S. Wu and G. Friedlander. bibliog Phys R 60:747-8 N 15 '41

Radioactive isotopes of nickel and their assignments. M. E. Nelson, M. L. Pool and J. D. Kurbatov. bibliog Phys R 61:428-31 Ap 1 '42

Radioactive isotopes of praseodymium. J. W. DeWire, M. L. Pool and J. D. Kurbatov. bibliog Phys R 61:564-7 My 1 '42

Radioactivity logging proves help in reworking old wells. diag Oil & Gas J 41: 140-2 Je 25 '42

RADIOACTIVITY—*Continued*

Radioactivity of ocean sediments; concentrations of the radio-elements and their significance in red clay. W. D. Urry and C. S. Piggot. bibliog Am J Sci 240:93-103 F '42

Radioactivity of ocean sediments; radium content of sediments of the Cayman trough. C. S. Piggot and W. D. Urry. bibliog Am J Sci 240:1-12 Ja '42

Reactions of bromine with carbon tetrachloride and tetrachloroethylene following neutron capture and isomeric nuclear transition. E. G. Bohlman and J. E. Willard. bibliog Am Chem Soc J 64:1342-6 Je '42

Self-diffusion of copper; rates of diffusion by employing artificially produced radioactive elements. C. L. Raynor, L. Thomassen and L. J. Rouse. bibliog Am Soc for Metals Trans 30:313-25 Je '42

Separation of nuclear isomers. E. P. Cooper. bibliog Phys R 61:1-5 Ja 1 '42

Some exchange experiments with radioactive tracers. S. Ruben and others. bibliog Am Chem Soc J 64:2297-8 O '42

Some experiments on chlorophyll and photosynthesis using radioactive tracers. S. Ruben, A. W. Frenkel and M. D. Kamen. bibliog J Phys Chem 46:710-14 Je '42

Study of the Menschutkin reaction using radioactive hydrogen as a tracer. D. Harman, T. D. Stewart and S. Ruben. bibliog Am Chem Soc J 64:2294-6 O '42

Theoretical half-lives of β-activities. C. L. Critchfield. bibliog Phys R 61:249-54 Mr 1 '42

Theoretical half-lives of forbidden β-transitions; RaE, P^{32}, K^{40}, and Rb^{87}. E. Greuling. bibliog Phys R 61:568-77 My 1 '42

Tin-can camera photographs location of radioactive atoms. W. E. Shoupp. il Sci Am 165:322 D '41

Tracer studies with radioactive carbon and hydrogen; the synthesis and oxidation of fumaric acid. M. B. Allen and S. Ruben. bibliog Am Chem Soc J 64:948-50 Ap '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

Tracer studies with radioactive hydrogen; the synthesis of labelled methyl iodide. D. Harman, T. D. Stewart and S. Ruben. bibliog diag Am Chem Soc J 64:2293-4 O '42

Uranium and atomic power. J. A. De Ment and H. C. Dake. 335p $5 Chemical pub. co. '42

Use of radioactive substances in medicine; abstract. V. W. M. Wright. Franklin Inst J 234:90-2 Jl '42

Use of uranium lead in the assignment of artificial radioactive isotopes. K. Fajans and A. F. Voigt. bibliog Phys R 60:626-7 N 1 '41

See also

Alpha rays
Atoms—Disintegration
Beta rays
Electrons
Gamma rays
Ionization, Gaseous
Radiography
Radium
Thorium
Uranium
X rays

RADIOCHEMISTRY

See also

Alpha rays
Photochemistry
Radioactivity

RADIOGRAPHY

Absorption of liquids by coal; application of radiographic methods to the problem. G. W. Land. bibliog il Ind & Eng Chem 34:1078-82 S '42

A.S.T.M. discusses importance of industrial radiography. Foundry 70:63+ Ag '42

Armor-crashing bullets X-rayed by high-speed tubes. Sci Am 166:293-4 Je '42

Autoradiography of ores. C. Goodman and D. C. Picton. il Phys R 60:688 N 1 '41

Chest X-rays in the physical examination. R. N. Downs. il Nat Safety N 46:24-5 S '42

Cosmic ray counter for radiographic exposure meter. Metal Prog 41:812 Je '42

Deceptive appearances in auto-radiographs. H. R. Nelson. il Metal Prog 42:391-2 S '42

Experiences with 4 x 5 films. G. E. Gundersen. Ind Med 11:270 Je '42

Fundamentals of radiography. 4th ed 76p Eastman kodak co, Medical division, Rochester, N.Y. '41

Industrial radiography; improvements in technique employed in electrical manufacturing. il Elec R (Lond) 131:393-6 S 25 '42

Manual of roentgenological technique. L. Sante. 9th rev ed 351p $5.50 St Louis bk. distributing co, 1507 McCausland av, St Louis '42

Million-volt X rays. il diag Mech Eng 63:906-8 D '41

New lead-screen X-ray technique. H. R. Isenburger. il diag Steel 110:81+ Je 15 '42

New radiographic unit aids industry; million volt X-ray unit. il diags Electronics 14:36-7+ N '41

New X-ray meter aids pole inspection. M. Zucker, R. Stoker and L. H. Sampson. il diags Elec W 118:1090-2 O 3 '42

Non-destructive testing; modern electrical, magnetic and acoustical methods of studying welds, castings, etc. il diag Automobile Eng 31:449-50 D '41

Now it can be done; chest X-ray examinations. J. A. Goldberg. il Safety Eng 83:37-9+ Je '42

Portable million-volt X-ray outfit for industrial laboratories. E. E. Charlton and W. F. Westendorp. il diags Gen Elec R 44:654-61 D '41

Radiograph intensifying screens. A. L. Christenson and H. F. Kaiser. il Iron Age 149:63-4 Ap 2 '42

Radiographic inspection aids. H. R. Clauser. diag Metals & Alloys 14:890 D '41

Radiographic inspection of welds; abstract. J. J. Gillespie. Metals & Alloys 15:1068+ Je '42

Radiography and TB; examination of men and women before entry into armed forces. Economist 142:642-3 My 9 '42

Radiography as a foundry tool. P. McCaffery. il diags Iron Age 149:45-8 My 14 '42

Radiography of magnesium; abstract. R. S. Busk. Iron Age 150:60-1 Jl 9 '42

Radiography of spot welds. R. C. Woods, J. C. Barrett and T. W. Dietz. il diags Metals & Alloys 16:442-7, 1080-3 S, D '42

Radium, modern tool for boiler inspection. H. Spring. il diags Power 86:560-1 Ag '42

Radium radiography of castings; abstract. L. W. Ball. Metals & Alloys 16:532+ S '42

Rapid X-ray diffraction method. A. T. McCord. bibliog il diags Ind & Eng Chem Anal ed 14:793-6 O 15 '42

Some aspects of X-ray inspection applied to testing and production. D. M. McCutcheon and others. Metals & Alloys 16:84-92 Jl '42

Taking photographs of bullets in action. Mach 48:128 Je '42

Technique and applications of industrial microradiography. G. L. Clark and S. T. Gross. bibliog il diag Ind & Eng Chem Anal ed 14:676-83 Ag 15 '42

Ten years' progress in radiography. A. J. Moses. il diags Metal Prog 40:771-6 N '41

Tin-can camera photographs location of radioactive atoms. W. E. Shoupp. il Sci Am 165:322 D '41; Abstract. Iron Age 148:51 D 25 '41

Transient temperatures in the anode of an X-ray tube. F. R. Abbott. diags J Ap Phys 13:384-9 Je '42

Trivision; abstract. D. F. Winnek. Science 95:sup10 My 8 '42

X-ray examination of castings; Aircraft X-ray laboratories. il Aero Digest 40:209+ My '42

X-ray inspection and supplementary technique. H. M. Muncheryan. il Aviation 41:84, 184+ Ja '42

X-ray investigation of iron-nickel-chromium alloys. A. J. Bradley and H. J. Goldschmidt. bibliog Iron & Steel Inst J 144:273-83; Discussion. 284-8 no 2 '41

RADIOGRAPHY—*Continued*

X-ray photography; Kryptoscreen X-ray paper; layer of fluorescent material beneath emulsion. Automobile Eng 32:182 My '42

X-rays and you. 36p Eastman kodak co, Medical division, Rochester, N.Y. '42

X-rays from radio tubes. H. C. Brinker. Science 95:634 Je 19 '42

See also

Metallography
Metals—X ray inspection
Welding—X ray inspection
X ray films

RADIOLARIA, Fossil

Eocene radiolarian faunas from the Mt Diablo area, California. B. L. Clark and A. S. Campbell. diags maps Geol Soc Special Pa no 39:1-112, pl 1-9 bibliog(p95) '42

RADIOLOCATOR. See Radio detection of airplanes

RADIOMETEOROGRAPHS. See Radio meteorographs

RADIOMETERS

Radiant energy measurements with thermopiles. N. C. Beese. Opt Soc Am J 31:705-8 N '41

See also

Bolometers

RADIOSONDE. See Radio meteorographs

RADIOTHERAPY

Alchemical potions. Franklin Inst J 234:392 O '42

Biologic fundamentals of radiation therapy, by F. Ellinger. Review by F. C. Wood. Science 95:384-6 Ap 10 '42

Use of radioactive substances in medicine; abstract. V. W. M. Wright. Franklin Inst J 234:90-2 Jl '42

See also

X rays—Therapeutic use

RADIUM

Co-precipitation of radium and barium salts as a function of temperature and acidity. W. B. Pietenpol. J Chem Phys 10:211-14 Ap '42

Discovery and development of radium at Great Bear lake. C. Camsell. il Franklin Inst J 233:545-57 Je '42

Doodle bug adjuster's helper; radium lost in Detroit sewer found. Weekly Underw 147:400-1 Ag 22 '42; Nat Underw 46:27-8 Ag 27 '42

Enough radium for several years now in U.S. For Comm W 7:30 Je 6 '42

Radioactivity of ocean sediments; concentrations of the radio-elements and their significance in red clay. W. D. Urry and C. S. Piggot. bibliog Am J Sci 240:93-103 F '42

Radioactivity of ocean sediments; radium content of sediments of the Cayman trough. C. S. Piggot and W. D. Urry. bibliog Am J Sci 240:1-12 Ja '42

Radium, a magic mineral. L. H. Strack. 53p $1 Harper '41

Radium, modern tool for boiler inspection. H. Spring. il diags Power 86:560-1 Ag '42

Radium radiography of castings; abstract. L. W. Ball. Metals & Alloys 16:532+ S '42

Radium treasure and the Curies. I. Eberle. 105p $2 Crowell '42

See also

Alpha rays
Beta rays
Gamma rays
Radioactivity
Radiography
Radon
Vanadium

Protection

Protection of radium during air raids. diags U S Nat Bur Stand Handbook H38:1-17; pa 10c Supt. of doc. '42

Storage

Storage of radium; precautions to avoid its dispersal as result of enemy action. Engineering 152:410 N 21 '41

RADIUM E

Theoretical half-lives of forbidden β-transitions; RaE, P^{32}, K^{40}, and Rb^{87}. E. Greuling. bibliog Phys R 61:568-77 My 1 '42

RADIUM F. See Polonium

RADIUM poisoning

Prevention and control of hazards in the radium dial painting industry. L. F. Curtiss. il diags J Ind Hygiene 24:131-41 Je '42

Storage of radium dial instruments. C. R. Williams and R. D. Evans. J Ind Hygiene 24:236-7 O '42

Ventilation requirements for radium dial painting. W. C. L. Hemeon and R. D. Evans. il diag Heat & Ven 39:23-6 My '42; Same. J Ind Hygiene 24:116-20 My '42

RADON

Detection of radon by means of a proportional counter. S. C. Brown, L. G. Elliott and R. D. Evans. diags R Sci Instr 13:147-51 Ap '42

Prevention and control of hazards in the radium dial painting industry. L. F. Curtiss. il diags J Ind Hygiene 24:131-41 Je '42

RAFINESQUE, Constantine Samuel, 1784-1842

Modern facsimile reproductions of rare technical publications; case of Rafinesque's publications. E. D. Merrill. Science 96:180-1 Ag 21 '42

RAGS

Prices

OPA amends rag prices. Paper Tr J 114:17 F 12 '42

OPA issues maximum prices on old rags. Paper Tr J 113:9, 16+ D 18 '41

Testing

Importance of cuprammonium viscosity testing in the preparation of rag half-stock. H. U. Kiely and E. A. Bieniek. Paper Tr J 115:29-31 Ag 20 '42

RAGWEED

Electrophoretic and ultracentrifugal analysis of hay-fever-producing component of ragweed pollen extract. H. A. Abramson, D. H. Moore and H. H. Gettner. bibliog il J Phys Chem 46:192-203 Ja '42

RAHWAY RIVER PARK, New Jersey

Pre-cut lumber speeds defense housing; staff report with comments by C. F. MacEvoy. il plan Eng N 127:798-801 D 4 '41

RAIL. See Rails

RAIL fastenings

Extend the life of rail and fastenings; Roadmasters and maintenance of way association committee report. Ry Age 113:526 O 3 '42

RAIL joints

New rail joint. il Engineer 173:59 Ja 16 '42

Oxyacetylene pressure welding of railroad rails. L. Adams. il Welding J 20:769-75 N '41

Polariscope; a new aid in rail-joint design. W. E. Gadd and H. L. Lansing. il Ry Age 112:157-9+ Ja 10 '42

Rail expansion joint. G. Ellson. il diags Engineering 153:67 Ja 23 '42; Same cond. Mech Eng 64:308-9 Ap '42

Some comparisons of track welding methods; Koppers coal division of Eastern gas & fuel associates; thermit and electric welding. il diags Min Cong J 28:8-10+ My '42

RAIL motor cars. See Motor cars (railroad)

RAIL removers. See Street railroads—Track

RAILING, Max John, 1868-1942

Sketch. por Engineer 173:77 Ja 23 '42

RAILROAD adjustment board, National. See National railroad adjustment board

RAILROAD associations

Directory; names of secretaries, dates of next regular meetings and places of meetings of mechanical associations and railroad clubs. Published in monthly numbers of Railway mechanical engineer

RAILROAD associations—*Continued*
Meetings and conventions. Published in Railway age
See also
Association of American railroads

RAILROAD board of mediation. See National mediation board

RAILROAD bridges. See Bridges, Railroad

RAILROAD cars. See Cars; Freight cars

RAILROAD emergency boards
Emergency board procedures in war. Ry Age 112:1090-4 My 30 '42
Emergency boards for adjustment of railroad labor disputes. Monthly Labor R 55:92-3 Jl '42

RAILROAD employees' corporation
Debentures offered. Comm & Fin Chr 155:159-60 Ja 10 '42

RAILROAD engineering
American railway engineering association 43d annual meeting, Chicago, March 17-19. Ry Age 112:588-614+ Mr 21 '42
American society of mechanical engineers semi-annual meeting, Cleveland; railroad sessions. Ry Mech Eng 116:287-302 Jl '42
Engineering in transportation as essential as engineering in war. il Ry Age 112:1010-17 My 23 '42
How the mechanical engineer can aid national defense; symposium on transportation at railroad sessions of A.S.M.E. annual meeting. Ry Age 111:1083-8 D 27 '41; Ry Mech Eng 116:1-5+ Ja '42
Mechanical engineers in the transportation emergency. C. D. Young. Mech Eng 64:33-7 Ja '42; Excerpts. Ry Age 111:1086-7 D 27 '41; Ry Mech Eng 116:2-3 Ja '42
Progress in railway mechanical engineering, 1940-1941. il Mech Eng 63:879-92 D '41
Track problems in operation of streamliners. H. B. Christianson. il Civil Eng 12:355-8 Jl '42
See also
Bridges, Railroad
Cars—Design
Grade crossing elimination
Locomotives
Railroad research
Railroads—Construction
Railroads—Maintenance and repair
Railroads—Track

RAILROAD engineers
Co-operative relations with universities; A.R.E.A. committee report. Ry Age 112:597-8 Mr 21 '42
See also
McCormick, George

RAILROAD labor. See Railroads—Employees

RAILROAD land grants
Land-grant deductions running into big money. Ry Age 112:449-51 F 28 '42
Land grant rate repealer urged. Ry Age 112:667-8 Mr 28 '42
Land grant relief? railroads to seek escape from obligation to give the government a discount. Business Week p65-8 S 12 '42
Railroad land-grant rates. G. L. Wilson. bibliog J Business 15:266-78 Jl '42

RAILROAD law
Arizona train-limit-law declared unconstitutional. Ry Age 112:462 F 28 '42
Cost of eliminating railroad grade crossings. A. Dollinger. Pub Util 28:813-18 D 18 '41
Labor law test; rail unions' strike threat. Business Week p66-8 N 15 '41
Railroad land-grant rates. G. L. Wilson. bibliog J Business 15:266-78 Jl '42
Train limit laws out for duration. Ry Age 113:456 S 19 '42
See also
National mediation board
Railroads—Rates
Railroads and state

RAILROAD porters. See Porters

RAILROAD rates. See Railroads—Rates

RAILROAD research
Basic research improves passenger-truck performance. il diags Ry Mech Eng 116:407-12 O '42
Better rides from conventional passenger trucks. il diags Ry Age 113:475-8 S 26 '42
Business research for railroads. G. Rugge. Ry Age 113:604-7, 644-7 O 17-24 '42
Economic research on the Illinois Central. S. Berge. il Ry Age 111:913-16 N 29 '41
Engineering research sponsored by A.A.R. covers broad field. W. S. Lacher. il Ry Age 111:946-9+ D 6 '41
Research and machines; key to track maintenance in war. A. E. Perlman. il Ry Age 112:745-8 Ap 11 '42
Revolutionary economic changes and how they will hit the railroads. R. B. Eagleston. map Ry Age 112:382-6 F 14 '42
Traffic trends get close study on the New Haven. Ry Age 113:302-5, 344-7 Ag 22-29 '42

RAILROAD retirement board
Pension board moved to Chicago. Ry Age 111:1091+ D 27 '41

RAILROAD shops. See Car shops; Locomotive shops; Railroads—Shops

RAILROAD strikes
Great Southwest strike. R. A. Allen. 174p bibliog(p164-8) Univ. of Texas, Austin '42

RAILROAD supplies industry
Equipment people are admonished; warned not to boost prices without permission. Ry Age 111:925 N 29 '41
Famine is imminent in car repair parts. Ry Age 113:684-5 O 31 '42
National railway appliances association presents colorful exhibit, Chicago, March 16-19. Ry Age 112:615-17 Mr 21 '42
New and improved products of the manufacturers. il diags Ry Age 112:546-55 Mr 14 '42
Railway manufacturer and his war-time task. H. A. Wheeler. Ry Age 113:213-14 Ag 8 '42
Railway supply industry serves the railroads and the Nation. R. A. Doster. il Ry Age 112:18-21 Ja 3 '42
Supply industry takes on much war production. il Ry Age 112:1032-5 My 23 '42
War production board fixes 1942 equipment program. Ry Age 112:753-4 Ap 11 '42
Would close some supply factories; concentration, to squeeze out many concerns, is under study by WPB. Ry Age 113:705-6 O 31 '42
See also
Locomotive industry
Railroad ties
Railroads—Equipment and supplies
Railroads—Purchasing
Rails

Advertising

Timken bearing starts third chapter in story to railroads. F. H. Lindus. il Ind Marketing 27:16-17+ F '42

Finance

Railroad equipment report by Securities and exchange commission. Comm & Fin Chr 155:1035 Mr 12 '42

Securities

Position of leading railroad equipment and accessory stocks. Mag of Wall St 70:448-9 Ag 8 '42
Rail equipments in war boom; position of leading equipment and accessory stocks. il Mag of Wall St 69:492-3+ F 7 '42
Role of rail equipments vital. S. Altschul. Barron's 21:8 N 24 '41

Statistics

See also
Cars—Statistics

RAILROAD tie plates
Adopt simplified design for tie plates. Ry Age 113:282-3 Ag 15 '42

RAILROAD ties
Gum ties on the Missouri Pacific. W. J. Burton. Ry Age 112:334-5 F 7 '42
Railway tie association, 24th annual meeting, Cincinnati, May 6-7. Ry Age 112:943-7 My 16 '42
Tie service on the Northern Pacific. B. Blum. Ry Age 112:335-6 F 7 '42

RAILROAD ties—*Continued*

Wood preservation; A.R.E.A. committee report. Ry Age 112:604 Mr 21 '42

Wood preservation established large gains in 1941. il Ry Age 113:273-5 Ag 15 '42

See also

Railroads—Track

Prices

OPA issues special price regulation for railroad ties. Ry Age 113:419 S 12 '42

Statistics

More tie renewals made in 1941; data reported by A.R.E.A. committee. Ry Age 113:54-6 Jl 11 '42

RAILROAD turntables. See Turntables

RAILROADS

Facts or fiction about the railroads; excerpts from Emergency board's report. Ry Age 111:783-7 N 15 '41

Proposed railroad from the United States to Alaska. W. Davis. Science 95:sup8 Ap 17 '42

Quiz on railroads and railroading. 2d ed Assn. of Am. railroads, Transportation bldg, Washington, D.C. '42

This fascinating railroad business. R. S. Henry. 520p bibliog(p495-6) $3.50 Bobbs '42

See also

Air brakes
Bridges, Railroad
Cableways
Cars
Electric railroads
Freight car service
Freight cars
Grade crossings
Locomotive shops
Locomotives
Mine tracks
Motor cars (railroad)
Railroad engineering
Railroad ties
Railroads and state
Rails
Rapid transit
Street railroads
Subways
Terminals
Transportation
Tunnels and tunneling

also names of railroads, e.g. Pennsylvania railroad

Abandonment

Lines abandoned in the United States, Canada and Mexico in 1941; tabulation. G. E. Boyd. Ry Age 112:96-7 Ja 3 '42

Mileage abandoned 1932 to 1941, inclusive, in U.S.; tabulation. G. E. Boyd. Ry Age 112:95 Ja 3 '42

Protecting jobs in abandonments; Supreme court says I.C.C. can require carriers to find work for displaced help. Ry Age 112:501+ Mr 7 '42

Scrapping of Illinois Terminal held up; WPB wants rail and other equipment. Ry Age 113:618 O 17 '42

Accidents

Accidents in 1941. Ry Age 113:571 O 10 '42

Accidents on railways; report on accidents on railways of Great Britain during 1941. Engineering 154:112 Ag 7 '42

Are accident reports accurate? Ry Age 113:651-4 O 24 '42

British accident statistics show wartime effects. Ry Age 113:502 S 26 '42

Casualties decrease, locomotive defects increase; Bureau of locomotive inspection annual report. Ry Age 112:208-10 Ja 17 '42

Causes of 1941 accidents. Ry Age 111:1048 D 20 '41

Clearing the tracks. D. B. Robertson. il Nat Safety N 46:60-1+ O '42

Collision at Dolphin Junction. Engineering 152:396-7 N 14 '41

Cowlairs accident. Engineering 153:393 My 15 '42

Dickerson, Md. collision. diag Ry Age 113:533-4 O 3 '42

Falkirk tunnel accident. J. L. M. Moore. Engineer 174:171 Ag 28 '42

Hazards of derailments reduced; safety guide holds derailed cars in line with the track. L. R. Schuster. il Ry Age 113:438-41+ S 19 '42; Same, with diag. Ry Mech Eng 116:521-3+ D '42

Historic accidents and disasters; Armagh runaway train collision. il diag map Engineer 173:465-7 Je 5 '42

Historic accidents and disasters; double collision at Abbotts Ripton. diags Engineer 173:454-6 My 29 '42

Historic accidents and disasters; Hawes Junction and Aisgill collisions. il diags plan map Engineer 173:484-6 Je 12 '42

How accidents impede war work; abstracts of National safety council papers. Ry Age 113:727-8+ N 7 '42

Jeffers appeals for stay away from tracks campaign. Ry Age 113:631-2 O 17 '42

Railway accident at Beighton, L.N.E.R. Engineering 153:293 Ap 10 '42

Railway accident at Pelton, L.N.E.R. Engineering 154:156-7 Ag 21 '42

Report on accident at Kittrell, N.C. Ry Age 113:383 S 5 '42

Rolling on to victory. L. G. Bentley. il Nat Safety N 46:17-18+ Ag '42

What is happening to the railroad safety record? Ry Age 112:437-9 F 28 '42

Winners in 1941 railroad employee safety contest. Nat Safety N 45:62 Je '42

See also

Railroads—Safety measures

Accounting

Deferred maintenance and repairs of railroads. G. N. Farrand. J Account 74:282-3 S '42

Depreciation—You take or leave it; accounting rules modified by the Interstate commerce commission. Ry Age 112:346 F 7 '42

Records and accounts; A.R.E.A. committee report. Ry Age 112:610-11 Mr 21 '42

Simplifying interline payments; typing and clerical time are saved in system of forms developed on Northern Pacific. H. S. Latham. Ry Age 113:99-100 Jl 18 '42

War an incentive to accounting economies. L. V. Porter. Ry Age 113:567+ O 10 '42

Advertising

Advertise now to hold employee morale and public good will. J. V. Gilmour. Ry Age 112:823-6 Ap 25 '42

Canadian Pacific railroad employee types portrayed in color on post cards. Ry Age 111:927 N 29 '41

Co-ordinated advertising campaign in East. Ry Age 113:708-9 O 31 '42

Films get try-out as public relations medium. Ry Age 113:14 Jl 4 '42

Railroad advertising in 1941. F. Snow. Adv & Sell 35:61 Jl '42

12 railroads start huge wartime advertising program; eastern lines newspaper campaign. G. A. Nichols. il Ptr Ink 201:13-16+ O 30 '42

Air line competition

Air competition; report of committee, American association of passenger traffic officers. Ry Age 111:881-2 N 22 '41

Air travel statistics come of age. Ry Age 112:756-7 Ap 11 '42

Airplane supplements, not supplants railroads. W. A. Patterson. Comm & Fin Chr 156:1527 O 29 '42; Same. Inv Banking 13:36-7 D '42

Investment bankers weigh railroad prospects; report of railroad securities committee of Investment bankers' association of America. Ry Age 113:702-3 O 31 '42

Railroads warned against coming air freight competition. L. N. Selig. il Ry Age 111:1049-52 D 20 '41

Airplane auxiliaries

Railroads become air-minded; seeking to obtain interest in passenger and freight air transport. S. Altschul. Barron's 22:7 O 5 '42

Railroads warned against coming air freight competition. L. N. Selig. il Ry Age 111:1049-52 D 20 '41

Bibliography

Catalogue of the William Barclay Parsons collection. 108p $2 New York public lib, New York '41

Braking

Braking distances of metre-gauge trains. Engineering 154:11-12 Jl 3 '42

RAILROADS—Braking—*Continued*

Electropneumatic brakes for high-speed trains with particular reference to their electrical features. J. C. McCune. diags Elec Eng 61:Trans 137-42 Mr '42; Same cond. Ry Age 112:529-34 Mr 14 '42

Handling Diesel-electric freight trains; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:480-2 N '42

See also
Air brakes

Bridge crossing

See Bridges, Railroad

Buildings and structures

Construction and maintenance up in 1941 but further increase needed to meet demands. N. D. Howard. il Ry Age 112:32-6 Ja 3 '42

Outlook for materials for bridges and buildings. D. P. Beach. il Ry Age 113:690-1 O 31 '42

See also
Bridges, Railroad
Car shops
Coaling stations
Locomotive shops
Railroads—Concrete construction
Railroads—Shops
Railroads—Stations
Railroads—Terminals

Car departments

Car man's part in winning the war. R. K. Betts. Ry Age 112:578-80 Mr 21 '42

Selection and training of car department supervision; Car department officers' assn. committee report. Ry Mech Eng 116:464-5 N '42

Cars

See Cars; Freight cars; Motor cars (railroad); Refrigerator cars; Sleeping cars; Tank cars

Claims

See also Association of American railroads—Freight claim division

Commissaries

Sterilamps benefit dining car service; beef tenderizing process. il Elec W 117:118+ Ja 10 '42

Commuter service

Pennsylvania railroad installs bike stand for commuters. Ry Age 112:670 Mr 28 '42

Susquehanna's commuter bus service is interterminal. Ry Age 113:354-5 Ag 29 '42

Competitive transportation

Rate increase and competition. Ry Age 112:155 Ja 10 '42

See also
Motor trucks in freight service
Railroads—Air line competition
Railroads—Motor vehicle competition
Railroads—Waterways competition

Concrete construction

Report on masonry; A.R.E.A. committee. Ry Age 112:614+ Mr 21 '42

Santa Fe strengthens lines to fight flood waters; concrete blanket protects embankment. il Ry Age 111:778-9 N 15 '41

Consolidation

Court says no to Old Colony merger. Ry Age 111:1054+ D 20 '41

Construction

Army constructs 119-mile railroad at ordnance plant. il Ry Age 112:638-42 Mr 28 '42

Expenditures for construction and maintenance planned in 1942 will exceed one billion. il Ry Age 112:542-5+ Mr 14 '42

First army railway battalion builds a training railroad. il map Ry Age 113:164-7+ Ag 1 '42

Heavy construction on Fort Leonard Wood railroad. D. H. Maxwell and R. F. Bundy. il map W Soc E J 46:255-67 O '41

Railroad construction indices for 1941. Ry Age 113:268-9 Ag 15 '42

Railway construction makes further gains; U.S., Canada and Mexico. G. E. Boyd. il Ry Age 112:92-102 Ja 3 '42

Railway diversion and Pit River bridge, California. il Engineer 173:371-4 My 1 '42

Relocation job marked by speed, heavy work, modern design; shifting and raising of a section of Boston & Maine main line at Birch Hill reservoir, Massachusetts. il diag map Ry Age 112:489-93 Mr 7 '42

See also
Bridges, Railroad
Culverts
Grade crossing elimination
Railroads—Earthwork
Railroads—Electrification
Railroads—Stations
Railroads—Track
Railroads—Track elevation
Rails
Tunnels and tunneling

Cost of construction

Railroad construction cost indexes, 1918-1940. Eng N 128:674 Ap 23 '42

Costs

Equipment prices, 1941. Ry Age 112:124-5 Ja 3 '42

Railroads feel rising trend of material costs. D. A. Steel. il Ry Age 112:82-91 Ja 3 '42

See also
Railroads—Accounting

Bibliography

Cost of railroad transportation; a bibliographical memorandum of some of the reports and discussions of this subject. 148p Bur. of railway economics lib, Assn. of Am. railroads, Washington, D.C. '41

Crossings

See also
Grade crossings

Curves and turnouts

Track problems in operation of streamliners. H. B. Christianson. il Civil Eng 12:355-8 Jl '42

Damage from floods, storms, etc.

River channel tailored to avert washouts; Little Dalles river, Washington. il Comp Air M 47:6667-8 F '42

Sudden floods disrupt service in anthracite region. Ry Age 112:1097-8 My 30 '42

Derailments

See Railroads—Accidents

Earthwork

Relocation job marked by speed, heavy work, modern design; shifting and raising of a section of Boston & Maine main line at Birch Hill reservoir, Massachusetts. il diag map Ry Age 112:489-93 Mr 7 '42

Revolution in railroad grading equipment and methods. il Ry Age 112:536-41+ Mr 14 '42

Soil compaction methods produce dense fills on line change; 20-mile diversion on the Santa Fe. il map Ry Age 111:1040-5 D 20 '41

Electric equipment

Electrical developments of 1941; railroad equipment. G. Bartlett. il Gen Elec R 45:38-40 Ja '42

New Zealand railways. Electrician 127:242 O 24 '41

Progress in the electrical field. A. G. Oehler. Ry Age 112:50-1 Ja 3 '42

Railway developments; abstract. H. W. Green. Elec R (Lond) 131:522 O 23 '42

South African railways in 1941; record year in the workshops. Electrician 128:83-4 F 6 '42

Bibliography

Applications of electricity to railways, calendar year 1940; bibliography of periodical articles. E. A. Freeman. 30p Bur. of railway economics lib, Assn. of Am. railroads, Washington, D.C. '40

RAILROADS—Electric equipment—Bibliography—*Continued*

Applications of electricity to railways, calendar year 1941; bibliography of periodical articles. E. A. Freeman. 29p Bur. of railway economics lib, Assn. of Am. railroads, Washington, D.C. '41

Electrification

See also

Electric locomotives

Electric railroads

Locomotives, Diesel-electric

Motor cars (railroad)—Diesel-electric

Argentina

Quarter of a century of suburban electric traction on the Central Argentine railway: what of the future? K. N. Eckhard. Inst E E J 89 pt 1:316-20 Jl '42

Brazil

Electrics for Brazil. il Gen Elec R 45:361 Je '42

Railroad electrification in Brazil. Elec Eng 61:241 My '42

Railway electrification. Electrician 129:143 Ag 7 '42

Sweden

Bigger and faster locomotives for Sweden. il Ry Age 112:1150 Je 13 '42

Switzerland

Early railway electrification in Switzerland. il Engineer 173:497-9 Je 12 '42

Pioneer railway electrification in Switzerland. il Engineering 154:61-3, 70 Jl 24 '42

Swiss railway electrification. Elec R (Lond) 131:45 Jl 10 '42

Employees

College men have large place in modern railroading; door is open for qualified graduates. J. H. Copper. Ry Age 112:412-14 F 21 '42

Credit union boosts defense bond sales; Illinois Central Cicero. il Am Business 12: 29-30 Ap '42

D. & R.G.W. employees know what makes the wheels go round. il Ry Age 112:939-42 My 16 '42

Emergency board procedures in war. Ry Age 112:1090-4 My 30 '42

Emergency boards for adjustment of railroad labor disputes. Monthly Labor R 55:92-3 Jl '42

Employees to get identity badges. Ry Age 112:666 Mr 28 '42

Enlisting employee interest; suggestion system, Illinois Central. H. C. Marmaduke. Ry Age 111:919-20 N 29 '41

Essential personnel deferred; Selective Service bulletin sent to local draft boards lists key occupations in transportation field. Transit J 86:390 O '42

Form railway panel to settle labor disputes. Comm & Fin Chr 155:2127 Je 4 '42

Getting the best men available; New York Central hires all N.Y. clerical employees through central office. Ry Age 113:53+ Jl 11 '42

How co-op plan works on C.N.R. Ry Age 112:957-8 My 16 '42

How cooperative plan works; safety rules devised as result of conferences. C. F. Maw. Ry Mech Eng 116:339-41 Ag '42

How to abolish the loan shark; credit unions meet employees' needs. Ry Age 112:1108-10 Je 6 '42

How to have adequate man-power. il Ry Age 113:270-2 Ag 15 '42

Labor law test; rail unions' strike threat. Business Week p66-8 N 15 '41

Make work move in vacation dispute. Ry Age 113:234-5 Ag 8 '42

Manpower, a pressing problem. O. S. Beyer. il Ry Age 112:1027-31 My 23 '42

Manpower problem; abstract. E. M. Fitch. Ry Age 113:733-4 N 7 '42

No strike vote. Business Week p62 My 30 '42

One-man railroad; fight of T.P. & W. owner-president against the brotherhoods. Business Week p20+ Ja 31 '42

Pointing the graduates towards success in railroading. J. H. Cooper. J Eng Educ 32: 866-70 Je '42; Same abr. Ry Age 112:412-14 F 21 '42

President appoints railway labor panel. Comm & Fin Chr 155:2202 Je 11 '42

President backs National war labor board in Toledo, Peoria & western railroad co. case. Comm & Fin Chr 155:1163 Mr 19 '42

President orders Toledo, Peoria and Western arbitration. Ry Age 112:580+ Mr 21 '42

Protecting jobs in abandonments; Supreme court says I.C.C. can require carriers to find work for displaced help. Ry Age 112: 501+ Mr 7 '42

Protection of labor in abandonment of railroad lines. Monthly Labor R 54:997-8 Ap '42

Railroads facing shortage of labor. Ry Age 112:795+ Ap 18 '42

Railroads recruit women workers. M. Deems. il Ry Age 113:375-7 S 5 '42

Railways and organized labor. P. H. Middleton. 136p bibliog(p132-3) 50c Railway business assn, 38 S. Dearborn st, Chicago '41

Release the full potentialities of the men; management of railway mechanical department employees. S. W. Selden and others. Ry Mech Eng 116:139-50 Ap '42

Safety medalists hear crossing caution plea; awards of E. H. Harriman memorial medals. il Ry Age 113:12-13 Jl 4 '42

Sound labor relations will reduce accidents; abstract. H. G. Hoglund. Ry Age 113:728 N 7 '42

Still thinks jobless benefits inadequate. Ry Age 112:1121 Je 6 '42

Toledo, Peoria & Western service to be maintained; fighting strike called by the Brotherhoods. Ry Age 112:175-6 Ja 10 '42

Toledo, Peoria & Western strike averted by Mediation board. Ry Age 111:1000 D 13 '41

Toledo, Peoria & Western wage case hearing concluded. Ry Age 113:67 Jl 11 '42

Train crews as railway salesmen; New York Central traveling conductor helps trainmen give service. Ry Age 113:442-4 S 19 '42

Union-management co-operation on the B. & O. Ry Age 112:780-1 Ap 18 '42; Discussion. O. S. Beyer. 112:907 My 9 '42

Warning against employing the unfit; abstract. I. S. Cutter. Ry Age 113:728+ N 7 '42

Warns unions against tyrannizing; abstract. J. B. Eastman. Ry Age 113:144 Jl 25 '42

Where can we get manpower? O. S. Beyer. Ry Age 113:568-70 O 10 '42

Women on South African railways. T. Seawright. il Ry Age 113:608-9+ O 17 '42

See also

Railroads—Pensions

Railroads—Wages

Street railroads—Employees

Training

Control of locomotive management. J. F. S. MacDonald. Engineer 173:350-1 Ap 24 '42

Educational problems in transport. L. M. Homberger. Ry Age 112:1151-2 Je 13 '42

Finding and training good supervisors; Locomotive maintenance officers' assn. committee report. Ry Mech Eng 116:476-8+ N '42; Same. Ry Age 113:770-2 N 14 '42

Railroad teaches women ticket sellers' technique. il Ry Age 113:465 S 19 '42

Railway personnel problems; how to select and train yard forces; committee report. Ry Age 111:917-19 N 29 '41

Selection and training of car department supervision; Car department officers' assn. committee report. Ry Mech Eng 116:464-5 N '42

Selection and training of railroad supervisors. P. C. Dunn. 58p bibliog(p57-8) pa $1 Massachusetts inst. of technology, Boston '42

Training welding operators. il Ry Mech Eng 116:248-52 Je '42

U.S. provides education for railroad personnel. Ry Age 112:794 Ap 18 '42

Equipment and supplies

A.A.R. acts to conserve critical materials. Ry Mech Eng 116:91-2, 106 Mr '42

Company material is 7.5 per cent of revenue ton-miles. Ry Age 113:610-13 O 17 '42

RAILROADS—Equipment and supplies—*Cont.*

Conservation for victory; Missouri Pacific campaign to conserve materials; employees' suggestions. Ry Age 113:486-7 S 26 '42
Conservation of materials is essential; abstract. R. P. Hart. Ry Age 113:735 N 7 '42
Conserve materials by using less. J. L. Walsh. Ry Age 112:1195-7 Je 20 '42
Engineers put war needs first; American railway engineering association adopts emergency provisions of specifications. il Ry Age 112:1230-4 Je 27 '42
Equipment needs are understated. Ry Age 113:747+ N 7 '42
Estimate steel needs for 1942; railroads and car and locomotive builders. Ry Age 112:262-3 Ja 24 '42
First, materials, then production, now, materials; railroads and armed services compete directly for supplies. A. Stevenson. Ry Age 112:1207-10 Je 20 '42
4½-ton mobile crane for railway work. il(p370) Engineering 152:375 N 7 '41
How railroads conserve scarce materials. Ry Age 112:454 F 28 '42
Improved N. & W. cinder handling plant. il Ry Age 112:549 Mr 14 '42
Maintenance of way work equipment; A.R.E.A. committee report. Ry Age 112:601-2 Mr 21 '42
Materials vital to sustained railway effort. il Ry Age 112:1021-6+ My 23 '42
National association of shippers advisory boards annual meeting, Chicago, Nov. 10-11. Ry Age 111:792-5 N 15 '41
National railway appliances association presents colorful exhibit, Chicago, March 16-19. Ry Age 112:615-17 Mr 21 '42
Norfolk & Western is ready; operating efficiency and planning. il Ry Age 111:941-5 D 6 '41
Optimistic outlook for materials for maintenance. A. Stevenson. Ry Mech Eng 116:289-91 Jl '42
Outlook for materials for bridges and buildings. D. P. Beach. il Ry Age 113:690-1 O 31 '42
Protecting material supplies by conservation. A. G. Hoppe. Ry Age 112:1197-1200 Je 20 '42; Ry Mech Eng 116:293-5 Jl '42
Railroad estimates of 1942 steel needs. Ry Mech Eng 116:84 F '42
Railroad standards flexible, not fixed. C. H. Buford. Ry Age 111:1084-6 D 27 '41; Same. Ry Mech Eng 116:4-5 Ja '42
Railroads allocated 900,530 tons of steel for maintenance. Steel 110:47 F 9 '42
Railroads feel rising trend of material costs. D. A. Steel. il Ry Age 112:82-91 Ja 3 '42
Railroads getting less material for maintenance. Ry Age 113:215-18 Ag 8 '42
Railway equipment. Published in Foreign commerce weekly
Railway materials a big factor in carloadings. Ry Age 112:328-31 F 7 '42
Railway materials situation and the national interest. J. B. Eastman. Ry Age 113:204-5 Ag 8 '42
Report of A. A. R. general committee. Ry Age 113:220-1 Ag 8 '42
Report on material handling. J. W. Wade. il Ry Age 113:225-6 Ag 8 '42
Report on reclamation. T. J. Hegeman. Ry Age 113:221-2 Ag 8 '42
Report on standardization. L. E. Field. Ry Age 113:226-7 Ag 8 '42
Revolution in railroad grading equipment and methods. il Ry Age 112:536-41+ Mr 14 '42
Role of rail equipments vital; increased number of new freight cars needed in next 12 months. S. Altschul. Barron's 21:8 N 24 '41
Scarcity of materials will grow. A. L. Stevenson. Ry Age 113:206-7 Ag 8 '42
Storekeepers build up inventories to war strength. Ry Age 112:695-701+ Ap 4 '42
Substitution, a constantly changing picture. C. B. Bryant. Ry Age 112:1200-4 Je 20 '42; Same cond. Ry Mech Eng 116:296-9 Jl '42; Same cond. Engineering 154:185, 256 S 4, 25 '42
Supply people and the problems they face in war-time; review of the organizations responsible for materials supply. Ry Age 113:208-10 Ag 8 '42
WPB announces new maintenance rating. A. Stevenson. Ry Age 112:590-2 Mr 21 '42
WPB to control rail equipment purchases. Barron's 22:12 Ap 13 '42
We must do better. L. P. Krampf. Ry Age 113:220 Ag 8 '42

See also

Air brakes
Cars
Freight cars
Freight handling
Locomotives
Railroad supplies industry
Railroad ties
Railroads—Purchasing
Railroads—Rolling stock
Railroads—Shops—Equipment
Rails

Equipment trust certificates

Equipment issues, 1941. Ry Age 112:72-6 Ja 3 '42

Fares

Authorizes 10 per cent Pullman rate increase. Ry Age 112:586 Mr 21 '42
Carriers get 10 per cent fare increase. Ry Age 112:272 Ja 24 '42
Costlier sunshine; southeastern roads raise fares. Business Week p19 S 19 '42
Hearing on Pullman rate application. Ry Age 112:418-19 F 21 '42
OPA on rail rates. Business Week p24 N 7 '42
Pullman rate rise. Business Week p32 Mr 21 '42
Rate case closes at St Louis. Ry Age 112:220-2 Ja 17 '42
Rate hearings. Ry Age 111:1038-9; 112:167-71 D 20 '41, Ja 10 '42
Southern railroads increase fares. Comm & Fin Chr 156:1451 O 22 '42

Federal loans

R.F.C. loans to railroads as of Oct. 31, 1941; tabulation. Ry Age 112:73 Ja 3 '42
Shows public aids to rail and air carriers; Board of investigation and research created by the Transportation act of 1940. Ry Age 112:1239-40 Je 27 '42
Study board gets public-aids briefs; Board of investigation and research created by the Transportation act of 1940. Ry Age 113:577-9 O 10 '42

Finance

Are railroad securities undervalued? P. C. Andersen; T. F. Woodlock. Barron's 23:3, 8 Jl 6 '42
Atlantic Coast Line enjoys boom. A. Jansen. Barron's 22:19 S 28 '42
Auto conversion hits Pere Marquette. A. Jansen. Barron's 22:19 Mr 30 '42
Better days for New York Central stock? A. Jansen. Barron's 22:18 Je 29 '42
Burlington bonds at lowest levels in years. A. Jansen. Barron's 22:19 Ja 5 '42
Capital outlay is half a billion; expenditures higher in 1941. Ry Age 112:707 Ap 4 '42
Chesapeake & Ohio for war and peace. A. Jansen. map Barron's 22:9 Jl 13 '42
Continued good rail earnings likely. A. Jansen. Barron's 22:28-30 Ja 12 '42
Continued uncertainty for Lehigh Valley. A. Jansen. Barron's 22:19 F 2 '42
Credit outlook for railroads. E. H. Bunnell. Credit & Fin Management 44:22, 24-7 F '42
Dividend possibilities for Northern Pacific. A. Jansen. map Barron's 22:18 S 14 '42
Drastic reorganization for Soo line. A. Jansen. Barron's 22:19-20 Ap 13 '42
Economics of the new Empire State express. C. W. Meyer. Ry Age 111:1027-8+ D 20 '41
Expenditures for construction and maintenance planned in 1942 will exceed one billion. il Ry Age 112:542-5+ Mr 14 '42
Facts or fiction about the railroads; excerpts from Emergency board's report. Ry Age 111:783-7 N 15 '41
Fight over MOP; Young battles to upset reorganization plan approved by ICC. Business Week p82+ F 7 '42

RAILROADS—Finance—*Continued*

Financial reports. Published in weekly numbers of Railway age

4% on bond due in one year; San Antonio & Aransas Pass first 4s, Southern pacific system. M. Pescatello. Barron's 22:19 Ap 20 '42

Freight rate increase restores rail earning power; with table showing combined freight and passenger rate increases vs. increased operating costs of principal railroads. Barron's 22:18 Mr 9 '42

Great Northern's general mortgage bonds. Barron's 22:19-20 Mr 9 '42

Greatly improved railroad results, 1930 and 1941. Ry Age 112:526-7 Mr 14 '42

Gross and net earnings of United States railroads for the month of December. Comm & Fin Chr 155:881-2 Mr 2 '42 [cont monthly]

Gross and net earnings of United States railroads, 1941. Comm & Fin Chr 155:1081-3 Mr 16 '42

Gross and net earnings of United States railroads for the six months ended June 30. Comm & Fin Chr 156:730-1 Ag 27 '42

House passes bill providing for voluntary adjustment of railroad obligations. Comm & Fin Chr 155:2396 Je 25 '42

Interest payment plan for Alton. A. Jansen. Barron's 22:19 S 7 '42

I.C.C. submits new plan for D.&R.G.W. Ry Age 113:179 Ag 1 '42

Investment bankers weigh railroad prospects; report of railroad securities committee of Investment bankers' association of America. Ry Age 113:702-3 O 31 '42

Investors' interest still lacking. Ry Age 112:71-6+ Ja 3 '42

Land-grant deductions running into big money. Ry Age 112:449-51 F 28 '42

Maturity problem ahead for Maine Central. A. Jansen. Barron's 22:19 Je 1 '42

Mexican railways under new management; properties returned to government for operation. il Ry Age 112:68-70 Ja 3 '42

Missouri Pacific plan threatened; road's management seeks to upset reorganization. A. Jansen. Barron's 21:19-20 N 24 '41

Net of class I roads passed half billion dollar mark in 1941, first time since 1930. Comm & Fin Chr 155:684 F 12 '42

New Chandler act; several railroads will be aided in refinancing. Business Week p83-4 Ap 11 '42

Nickel Plate debt structure improved. A. Jansen. Barron's 21:19 D 8 '41

1941's net income was $501,650,867. Ry Age 112:581-3 Mr 21 '42

Offsetting the loss of a dominant traffic source; New York, Ontario & Western. il Ry Age 112:1244-6 Je 27 '42

Operating revenues and operating expenses of class I steam railways in the United States; by districts for the month of December 1941 and 1940 and for twelve months ended with December 1941 and 1940. Ry Age 112:521 Mr 7 '42 [cont monthly]

Pennroad payoff; stockholders win decision against Pennsylvania railroad. Business Week p64-5 D 27 '41

Quandary for Lackawanna bondholders; liability for income taxes of leased lines creates problem. A. Jansen. Barron's 22:19-20 Ap 27 '42

Rail aid falters; McLaughlin bill opposed by bondholders' spokesmen. Business Week p66+ Ag 29 '42

Railroad earnings in December, and years, 1940 and 1941. Barron's 22:18 F 2 '42

Railroad income may be inflated sharply. A. Jansen. Barron's 22:3 F 23 '42

Railroad reorganizations under the Bankruptcy act. W. H. S. Stevens. bibliog J Business 15:205-24, 361-81 Jl-O '42

Railroad securities; passage of the McLaughlin bill. Comm & Fin Chr 155:2381 Je 25 '42

Railroad securities; Western Pacific 1st mortgage 5s, 1946. Comm & Fin Chr 155:653 F 12 '42

Railroad wage controversy settlement. Comm & Fin Chr 154:1429 D 11 '41

Railroads, 1941. Survey of Cur Business 22:39-41 F '42

Rails not decadent; condensed from report of Railroad securities committee. Inv Banking 12:20-2 Je '42

Rails' tax plan; ask Congress to let them buy in their own bonds below par without capital gains assessment. Business Week p84-5 Ap 11 '42

Ratio of rail net to gross, 1900-41. Barron's 21:1 D 1 '41

Reorganizations—do they restore credit or destroy it? F. R. Dick. Ry Age 113:488-91, 521-4 S 26-O 3 '42

Restoration of credit of railroads of prime importance to free enterprise; report of IBA railroad securities committee. Comm & Fin Chr 156:1529+ O 29 '42

Revenues and expenses of railways; month of December and twelve months of calendar year 1941. Ry Age 112:362-6 F 7 '42 [cont monthly]

Revenues, expenses, and income of class I railroads, seasonally adjusted and unadjusted, monthly Sept. 1940-Oct. 1941. Fed Res Bul 28:63 Ja '42 [cont monthly]

Review of railway operations in 1941. J. H. Parmelee. Ry Age 112:52-63 Ja 3 '42

Revolutionary economic changes and how they will hit the railroads. R. B. Eagleston. map Ry Age 112:382-6 F 14 '42

Southern Pacific's long term recovery. Barron's 22:19 N 9 '42

Status of Louisville & Nashville bonds. A. Jansen. Barron's 22:14 S 21 '42

Strong rail bond yielding 3.9%; Pennsylvania co. secured 4s, 1963. M. Pescatello. Barron's 22:19 Jl 20 '42

Tax relief in the matter of purchases of own bonds. Comm & Fin Chr 156:525 Ag 13 '42

Wage boost accruals hit rail net. Barron's 21:12 D 1 '41

Wage increase more than owners' 9-months' income on some roads. Ry Age 112:15-17 Ja 3 '42

What the rail wage settlement means. Barron's 21:12 D 8 '41

What will earnings be in '42? J. G. Lyne. Ry Age 112:12-14 Ja 3 '42

See also

Railroad land grants
Railroads—Accounting
Railroads—Costs
Railroads—Federal loans
Railroads—Rates
Railroads—Receiverships
Railroads—Securities

also names of railroads, e.g. Southern Pacific railroad

Fires and fire protection

1941 fire losses largest since '24. Ry Age 113:748 N 7 '42

Flood damage

See Railroads—Damage from floods, storms, etc.

Forms and blanks

Simplifying interline payments; typing and clerical time are saved in system of forms developed on Northern Pacific. H. S. Latham. Ry Age 113:99-100 Jl 18 '42

Freight

Big coal movement into New England. Ry Age 113:348+ Ag 29 '42

Bulkheads will reduce damage in heavy loads. A. L. Green. Ry Age 112:1112 Je 6 '42

Coal for the country's furnaces; Western Maryland contributes to the war effort. il map Ry Age 112:948-51 My 16 '42

Company material is 7.5 per cent of revenue ton-miles. Ry Age 113:610-13 O 17 '42

Export freight permit plan adopted by roads. Comm & Fin Chr 155:331 Ja 22 '42

Finds railroads ready for peak. Ry Age 113:378+ S 5 '42

Freight car loading. Published in weekly numbers of Railway age

Freight-car loadings, by classes. Published in monthly numbers of Federal reserve bulletin

RAILROADS—Freight—*Continued*

Freight car supply and traffic in 1929, 1941 and 1942. Ry Age 112:811-13 Ap 25 '42

Freight operating statistics of large steam railways, selected items for the month of December, 1941 compared with December 1940. Ry Age 112:471-2 F 28 '42 [cont monthly]

Freight progress in war number. il Ry Age 112:973-1048 My 23 '42

Freight progress in war number; comments by national leaders and shippers. Ry Age 113:168-72 Ag 1 '42

Freight traffic lags; with tables giving statistics of revenue freight loaded, 1940 and 1941 and first quarter, 1942; and freight car supply and utilization, 1939-1942. Survey of Cur Business 22:5-7 Ap '42

Good railroading needed for perfect shipping. C. H. Dietrich. Ry Age 112:705-6 Ap 4 '42

Handling the vital ore movement; Great Northern. il map Ry Age 112:371-4 F 14 '42

Influence of passenger service on freight traffic; abstract. J. T. Saunders. Ry Age 111:879-80 N 22 '41

Keeping tab on traffic by shippers and commodities; Missouri Pacific system. J. R. Staley. Ry Age 112:497-8 Mr 7 '42

Large additions to yards which progress the war effort; Norfolk & Western at Portsmouth, Ohio. il plan Ry Age 113:230-3 Ag 8 '42

Limit to freight capacity may mar war production. L. P. Ayres. Ry Age 113:319 Ag 22 '42

L.N.E.R. transport feat; transportation electric stator. il Mech Handling 29:180 O '42

Maintenance, a key to progress in freight service. il Ry Age 112:1008-9 My 23 '42

More freight power required for fall traffic peak. il Ry Age 112:1104-7 My 23 '42

Must cut company use of cars and locomotives; abstract. W. D. Beck. Ry Age 113:734 N 7 '42

National association of shippers advisory boards annual meeting, Chicago, Nov. 10-11. Ry Age 111:792-5 N 15 '41

1941 traffic 84.5 per cent of potential. Ry Age 113:414-15 S 12 '42

No crosshaul ban. Business Week p60+ O 10 '42

Norfolk & Western is ready; operating efficiency and planning. il Ry Age 111:941-5 D 6 '41

Offsetting the loss of a dominant traffic source; New York, Ontario & Western. il Ry Age 112:1244-6 Je 27 '42

Oil flows by rail. Business Week p18+ My 23 '42

Railroad securities; estimates for individual regions, first quarter, 1942. Comm & Fin Chr 155:101 Ja 8 '42

Railroad storage requirements for quick-frozen foods. il Ry Age 112:862-4 My 2 '42

Railroads can take it, anywhere. J. J. Pelley. Power Pl Eng 46:51 Ap '42

Railroads, once thought outmoded, handling all-time peak traffic. il Steel 111:60-1 Ag 10 '42

Rails now deliver 60 per cent of eastern oil demand. il Ry Age 113:306-9 Ag 22 '42

Railway connection to Central America; all-rail route an economy. Ry Age 113:352 Ag 29 '42

Railway freight traffic in prosperity and depression. T. Hultgren. 51p pa 25c Nat. bur. econ. research '42

Railway materials a big factor in carloadings. Ry Age 112:228-31 F 7 '42

Record freight traffic handled by railroads in 1941. Comm & Fin Chr 155:1255 Mr 26 '42

Revenue tonnage and mileage figures to supplant carloadings data as traffic gauge. Comm & Fin Chr 156:189 Jl 16 '42

Revolutionary economic changes and how they will hit the railroads. R. B. Eagleston. map Ry Age 112:382-6 F 14 '42

Traffic trends get close study on the New Haven. Ry Age 113:302-5, 344-7 Ag 22-29 '42

Ways to greater equipment economy. A. W. Vogtle. Ry Age 113:483 S 26 '42

What the shippers are doing; co-operation between carriers and their customers. il Ry Age 112:1036-40 My 23 '42

Why carloadings seem to lag. Barron's 22:1 Je 1 '42

Why St Louis is no bottleneck; Terminal railroad association is keeping heavy traffic moving. il map Ry Age 113:655-7+ O 24 '42

See also

Freight car service
Freight cars
Motor trucks in freight service
Railroads—Motor vehicle auxiliaries
Railroads—Rates
Railroads—Terminals
Refrigerator cars
Tank cars

Fuel

Locomotive fuel figures accurately compared; statistics of fuel and power consumption of locomotives and motor cars. E. E. Ramey. Ry Age 112:786-91+ Ap 18 '42

Railroads feel rising trend of material costs. D. A. Steel. il Ry Age 112:82-91 Ja 3 '42

Report on fuel buying. C. H. Hoinville. Ry Age 113:224 Ag 8 '42

See also

Coaling stations
Locomotives—Fuel

Gages

Australia's railways built to many gages. map Ry Age 112:754-5 Ap 11 '42

Grades

Revolution in railroad grading equipment and methods. il Ry Age 112:536-41+ Mr 14 '42

Soil compaction methods produce dense fills on line change; 20-mile diversion on the Santa Fe. il map Ry Age 111:1040-5 D 20 '41

History

From covered wagon to streamliner. 64p $1.75 Greystone press, New York '41

Insurance requirements

I.M.U.A. extends jurisdiction over railroad rolling stock. East Underw 42:30 D 26 '41; Nat Underw 45:3 D 25 '41; Spectator (Property ed) 7:23 D 25 '41

Railroads and their insurance requirements in the national defense program. East Underw 42:76+ D 12 '41

Lighting

Blackouts, but no blot-outs of operations on the Southern Pacific. il Ry Age 112:1144-7 Je 13 '42

New York state tells railroads how to blackout. Ry Age 112:1155 Je 13 '42

Portable floodlights for emergency use. il Ry Age 112:861 My 2 '42

See also

Railroads—Stations—Lighting

Loading rules

Changes in loading rules recommended; Car department officers' assn. committee report. Ry Mech Eng 116:463-4 N '42

Minimum load set for merchandise cars. Ry Age 112:665+ Mr 28 '42

Location

Federal dam projects require many railroad relocations. il Ry Age 111:1073-7 D 27 '41

Relocation job marked by speed, heavy work, modern design; shifting and raising of a section of Boston & Maine main line at Birch Hill reservoir, Massachusetts. il diag map Ry Age 112:489-93 Mr 7 '42

Soil compaction methods produce dense fills on line change; 20-mile diversion on the Santa Fe. il map Ry Age 111:1040-5 D 20 '41

Maintenance and repair

Chicago & north western streamlines its streamliner servicing at Chicago terminal. il diags plan Ry Age 112:1068-74+ My 30 '42

RAILROADS—Maintenance and repair—*Cont.*

Construction and maintenance up in 1941 but further increase needed to meet demands. N. D. Howard. il Ry Age 112:32-6 Ja 3 '42

Economics of railway labor in maintenance work; A.R.E.A. committee report. Ry Age 112:600-1 Mr 21 '42

Expediting Southern Pacific car work. il Ry Mech Eng 116:390-4 S '42

Expenditures for construction and maintenance planned in 1942 will exceed one billion. il Ry Age 112:542-5+ Mr 14 '42

Field for welding; ways in which the mechanical department can secure best results. L. E. Grant. il Ry Mech Eng 116:241-6 Je '42

Maintenance, a key to progress in freight service. il Ry Age 112:1008-9 My 23 '42

Periodic attention to passenger cars. E. L. Schaffner. Ry Mech Eng 116:228-9 My '42

Railroad income may be inflated sharply; maintenance likely to be restricted by inability to obtain materials and supplies. A. Jansen. Barron's 22:3 F 23 '42

Railroads getting less material for maintenance. Ry Age 113:215-18 Ag 8 '42

Railroads set green light for deferred maintenance. G. E. Doying, jr. Elec W 118:774 S 5 '42

Reclamation, now a patriotic duty. G. A. Georner. Ry Age 112:1204-7 Je 20 '42

Welding in railway maintenance. Eng N 127:797 D 4 '41

What do the railroads weld? list of car and locomotive parts which are repaired by welding. il Ry Mech Eng 116:253-7 Je '42

See also

Car wheels
Cars—Repair
Locomotive shops
Locomotives—Repair
Railroad ties
Railroads—Shops
Railroads—Track
Rails

Maintenance of way

See Railroads—Track

Management

American association of railroad superintendents 48th annual meeting, Chicago, May 12-14. Ry Age 112:1080-7 My 30 '42

Business research for railroads. G. Rugge. Ry Age 113:604-7, 644-7 O 17-24 '42

Control of locomotive management. J. F. S. MacDonald. Engineer 173:350-1 Ap 24 '42

Economics of railway location and operation; A.R.E.A. committee report. Ry Age 112:595-6 Mr 21 '42

Girding for wartime transportation. il Ry Age 112:980-8 My 23 '42

Greater use from locomotives. il Ry Age 113:23-5 Jl 4 '42

How cooperative plan works; safety rules devised as result of conferences. C. F. Maw. Ry Mech Eng 116:339-41 Ag '42

How the railroads did it; squeezing a lot more out of everything they own. il Fortune 26:120-2+ N '42

How to have adequate man-power; using women, relaxing age and physical limits, etc.; use of statistics. il Ry Age 113:270-2 Ag 15 '42

James J. Hill's philosophy of railroad management. W. J. Cunningham. Ry Age 111:1081-2 D 27 '41

Railroads should add to supervision. K. Healy. Ry Age 112:224 Ja 17 '42

Railways and the war effort, synonymous terms in Canada. il Ry Age 112:1041-4 My 23 '42

Rapid economic changes that railroads must meet. Ry Age 111:899-902 N 29 '41

Results suggest that railroad men know how to railroad. M. W. Clement. Ry Age 112:1188-90 Je 20 '42

Santa Fe aids the war effort. il Ry Age 113:694-6 O 31 '42

What will the railroads do? il Fortune 26:124-7+ N '42

See also

Railroads—Employees
Railroads—Purchasing

Mechanical departments

Field for welding; ways in which the mechanical department can secure best results. L. E. Grant. il Ry Mech Eng 116:241-6 Je '42

Improving mechanical departments' practices; papers in contest. Ry Mech Eng 116:133-87 Ap '42

Keep them running. W. Wyre. Ry Mech Eng 116:315-17 Jl '42

See also Association of American railroads—Mechanical division

Mileage

Railway construction makes further gains; U.S., Canada and Mexico. G. E. Boyd. il Ry Age 112:92-102 Ja 3 '42

Military use

Conditioning passenger cars for troop movement. Ry Mech Eng 116:433 O '42

Defense plants call for track construction on a major scale. M. H. Dick. il Ry Age 112:40-3 Ja 3 '42

Girding for wartime transportation. il Ry Age 112:980-8 My 23 '42

Handling the boys in khaki. il Ry Age 111:862-5 N 22 '41

Moving troops has become bigger job. E. C. R. Lasher. Ry Age 113:314-15 Ag 22 '42

Navy is second in railroad use. Ry Age 113:416+ S 12 '42

Nazis find super-roads can't supplant railways. Ry Age 112:1246 Je 27 '42

Railroads needed to fight a war. R. S. Henry. Ry Age 112:500+ Mr 7 '42

Rails move 600,000 of armed forces in 7 weeks. Ry Age 112:304-5 Ja 31 '42

Railways geared to needs of army and navy. R. A. Doster. Ry Age 112:29-31 Ja 3 '42

This war is the biggest railroad war in history. il Ry Age 112:1045-8 My 23 '42

Troop movements handled smoothly. Ry Age 113:417 S 12 '42

See also

Railroads, Military
Railroads in war

Models

Model railroad engineering; a manual of design, construction and operation. D. Marshall. 285p bibliog(p274) $3.50 Harper '42

20 model railroad projects. F. Taylor. 119p $1 Kalmbach pub. co, Milwaukee, Wis. '41

Motor vehicle auxiliaries

B. & M. gets some truck certificates. Ry Age 113:382+ S 5 '42

Co-ordinated service assumes important role. C. Layng. il Ry Age 112:136-41 Ja 3 '42

Mobile workshop for the L.M.S. railway. il Engineering 152:417 N 21 '41

Rail-highway co-ordination much increased; summary of highway motor vehicles in which railways had financial interest as of Dec. 31, 1940, and Dec. 31, 1935. Ry Age 112:260-1 Ja 24 '42

Supplemental use of highway trucks by Southern Pacific. L. B. Young. il Ry Age 112:658-60 Mr 28 '42

Waives trammel on truck operation; Missouri Pacific trucks not limited to freight which gets part of its haul on rails. Ry Age 113:708 O 31 '42

See also

Motor trucks in freight service

Motor vehicle competition

Dividing traffic in the national interest. K. Healy. Ry Age 112:326 F 7 '42

Has competition leveled off? Ry Age 111:902 N 29 '41

I.C.C.'s split personality on rates. Ry Age 111:940 D 6 '41

Traffic prospects, short-term vs. long-run. Ry Age 111:984 D 13 '41

See also

Railroads—Competitive transportation
Railroads—Motor vehicle auxiliaries

RAILROADS—*Continued*

Negro passengers

I.C.C. orders Jim Crow sleepers. Ry Age 111:888 N 22 '41

Would throw out Jim Crow case; I.C.C. examiner finds Rock Island has corrected situation in Texas. Ry Age 112:1088+ My 30 '42

Office management

See also
Railroads—Accounting

Officials

Frederick W. Hankins, D.Sc. Ry Mech Eng 116:49-55 F '42

Karl Fritjof Nystrom, D. Eng. Ry Mech Eng 116:93-8+ Mr '42

What the executives think about passenger service. il Ry Age 111:849-53 N 22 '41

Passenger service

Another record year in passenger progress. il map Ry Age 111:818-28 N 22 '41

Atlantic Coast Line-Florida East Coast hostess service is 8 years old. il Ry Age 112: 297-8 Ja 31 '42

Coach seats won't be rationed; abstract. J. B. Eastman. Ry Age 113:379 S 5 '42

Influence of passenger service on freight traffic; abstract. J. T. Saunders. Ry Age 111:879-80 N 22 '41

July 4 passengers were all carried. Ry Age 113:67-8 Jl 11 '42

Luxury service to be curtailed. Ry Age 112: 1129 Je 6 '42

More train sets; most roads will reserve club, lounge, and observation car space. Business Week p44-5 Jl 25 '42

Motorailer connecting service for Missouri River Eagles. il Ry Age 113:661-3 O 24 '42

Railroad tries, and likes, a sales idea; New Haven children's menu card and decorated timetable. il Ptr Ink Mo 43:24 D '41

Slower passenger schedules coming. Ry Age 113:742-3 N 7 '42

Train crews as railway salesmen; New York Central traveling conductor helps trainmen give service. Ry Age 113:442-4 S 19 '42

Utilities board checks up on New York Central service. Ry Age 112:266 Ja 24 '42

What the executives think about passenger service. il Ry Age 111:849-53 N 22 '41

See also
Railroads—Negro passengers
Railroads—Trains

Passenger traffic

Carrying the load. Business Week p19-20+ S 5 '42

Holiday travel heavy in East. Ry Age 113: 423-4 S 12 '42

How maximize passenger capacity? Ry Age 112:688-9 Ap 4 '42

How to reduce station delays to passenger trains. Ry Age 113:131-3 Jl 25 '42

New York passenger terminals report '41 traffic. Ry Age 112:873-4 My 2 '42

ODT freezes rail passenger schedules as of Sept. 26. Comm & Fin Chr 156:1268 O 8 '42

Rail cooperation; three roads enlarge Chicago-Miami service by running trains on alternating schedule. Business Week p38 D 6 '41

Rail travel presses on facilities. Barron's 22: 12 Jl 13 '42

Tight rail freeze? ODT rules on passenger trains. Business Week p17 O 10 '42

Traffic trends get close study on the New Haven. Ry Age 113:346-7 Ag 29 '42

Travel hits a record in New York; Christmas and New Year's holiday period. Ry Age 112:175 Ja 10 '42

See also
Railroads—Fares
also American association of passenger traffic officers

Pensions

Questions and answers on the Railroad retirement act. rev ed 71p Railroad retirement board, 205 W. Monroe st, Chicago '42

Railroad retirement benefits, 1941-42. Monthly Labor R 55:743 O '42

Retirement board reports on fiscal year operations. Ry Age 113:465-6 S 19 '42

Pooling

Great American car pool. J. M. Symes. Ry Age 112:494-6 Mr 7 '42

Power

Locomotive fuel figures accurately compared; statistics of fuel and power consumption of locomotives and motor cars. E. E. Ramey. Ry Age 112:786-91+ Ap 18 '42

See also
Locomotives
Railroads—Electrification

Public relations

Advertise now to hold employee morale and public good will. J. V. Gilmour. Ry Age 112:823-6 Ap 25 '42

A.A.R. brings out school kit of railroad information. il Ry Age 112:274 Ja 24 '42

How railroads rate with public; opinion survey made for the Association of American railroads. Ry Age 113:373-4 S 5 '42

Publicity and sales efforts more vital now than ever. il Ry Age 111:874-8 N 22 '41

What the public thinks about the railroads. Ry Age 112:162-3 Ja 10 '42

See also
Railroads and state

Purchasing

Duties and difficulties of the railway materials buyer. C. E. Smith. Ry Age 113: 211-12+ Ag 8 '42

How railroads fare under the priority rules. D. A. Steel. Ry Age 112:22-5 Ja 3 '42

Material supplies decline further. Ry Age 113:658-60 O 24 '42

Materials vital to sustained railway effort. il Ry Age 112:1021-6+ My 23 '42

1941 purchases of class I roads. Ry Age 112: 709 Ap 4 '42; Same. Comm & Fin Chr 155: 1353 Ap 2 '42

$1,648,028,000 of railway buying in 1941. D. A. Steel. il Ry Age 112:77-81 Ja 3 '42

Railway purchases expanded to meet war needs. Ry Age 112:643-9+ Mr 28 '42

Report on loss and damage to shipments of company material. J. H. James. Ry Age 113:229 Ag 8 '42

Report on purchasing methods. W. R. H. Mau. Ry Age 113:224-5 Ag 8 '42

Six months' railway buying. Ry Age 113: 453 S 19 '42

See also
Railroads—Equipment and supplies
also Association of American railroads—Purchases and stores division

Rates

All-commodity rates found OK. Ry Age 111: 962, 970-1 D 6 '41

Another federal agency enters railroad freight rate situation. Barron's 22:12 Mr 23 '42

Blow to rails; fail to win freight-rate increases hoped for. Business Week p20 Mr 7 '42

Class rate hearings come to sudden close. Ry Age 113:534-5 O 3 '42

Corporate control as a factor in railroad rate making. F. L. Barton. maps Pub Util 30: 221-30 Ag 13 '42

Division 3 upheld on all-freight rates. Ry Age 112:869 My 2 '42

Freight rate increase postponement denied. Comm & Fin Chr 155:1131 Mr 19 '42

Freight rate increase restores rail earning power; with table showing combined freight and passenger rate increases vs. increased operating costs of principal railroads. Barron's 22:18 Mr 9 '42

RAILROADS—Rates—*Continued*

Freight rate increases. Comm & Fin Chr 155:933 Mr 5 '42

Freight rates; the interregional tariff issue. H. B. Kline. 47p pa 25c Vanderbilt univ. press, Nashville, Tenn. '42

Higher rail rates. Business Week p44+ D 20 '41

Inducing vs. compelling l.c.l. efficiency. Ry Age 112:405 F 21 '42

ICC rebuffs OPA; attempt to control freight rates as basic factor in retail costs. Business Week p22 Mr 21 '42

I.C.C. staff exhibits in general rate and classification probe. Ry Age 113:464 S 19 '42

Land-grant deductions running into big money. Ry Age 112:449-51 F 28 '42

Land grant rate repealer urged. Ry Age 112:667-8 Mr 28 '42

Land grant relief? railroads to seek escape from obligation to give the government a discount. Business Week p65-8 S 12 '42

OPA is rate case agent for Byrnes; WLB over wages. Ry Age 113:670-1 O 24 '42

OPA wants some rate increases suspended. Barron's 22:18 Mr 16 '42

Railroad land-grant rates. G. L. Wilson. bibliog J Business 15:266-78 Jl '42

Railroad securities; Office of price administration plea for reconsideration of freight rate increases. Comm & Fin Chr 155:1133 Mr 19 '42

Railroads granted 6% freight rate increase. Comm & Fin Chr 155:1048 Mr 12 '42

Railroads seek higher rates to meet costs. Comm & Fin Chr 154:1576 D 18 '41

Rate case closes at St Louis. Ry Age 112:220-2 Ja 17 '42

Rate hearings. Ry Age 111:1038-9; 112:167-71 D 20 '41, Ja 10 '42

Rate increases and competition. Ry Age 112:155 Ja 10 '42

Rate increases become effective. Ry Age 112:576-7 Mr 21 '42

Substandard rates no longer justified. A. W. Vogtle. Ry Age 113:368+ S 5 '42

Tariff interpretation and rate construction, also express and parcel post. C. F. Walden. 229p pa $6.50 Traffic pub. co, 100 6th av, New York '40

Transport board gets its money; committed to making study of interterritorial freight rates. Ry Age 111:1054+ D 20 '41

$203,000,000 rate rise authorized. Ry Age 112:484-7 Mr 7 '42

Uniform freight classification and the Interstate commerce commission. F. L. Barton. map J Land & Pub Util Econ 18:312-22 Ag '42

Western lines defend rate structure. Ry Age 112:1147-8 Je 13 '42

Would strike down added cost rates; case involves first application of Edwards formula to l.c.l. charges. Ry Age 113:351+ Ag 29 '42

Coal

Freight rates on bituminous coal, with index numbers, 1929-1940. T. Hultgren and S. G. Spal. 132p U.S. Interstate commerce commission, Bur. of statistics, Washington '41

I.C.C. bureau shows post-1928 coal-rate trends. Ry Age 113:318 Ag 22 '42

Live stock

Finds livestock pick-up is okay; I.C.C. approves tariffs. Ry Age 112:266+ Ja 24 '42

South's livestock rates readjusted. Ry Age 113:381+ S 5 '42

Paper

Transportation in the pulp and paper industry. C. R. Hillyer. il Paper Ind 24:41-2, 54 Ap '42

Petroleum and petroleum products

Consent decree in Elkins-act case. Ry Age 111:1091 D 27 '41

Eight complaints hit rail rate on heavy oil. Nat Pet N 33:5+ N 26 '41

Steel

Railroad 6 percent rate increase clarified. Oil Paint & Drug Rep 141:3+ My 11 '42

Receiverships

Colorado & Southern and the McLaughlin act. O. Lasdon. Comm & Fin Chr 156:1699+ N 12 '42

ICC plan for Florida east coast railway; reorganization proposes drastic reduction in capitalization and fixed charges. A. Jansen. Barron's 22:19-20 My 11 '42

I.C.C. wipes out Florida East Coast equities. Ry Age 112:795 Ap 18 '42

I.C.C. wipes out Soo line equities. Ry Age 112:654, 664 Mr 28 '42

Minneapolis & St Louis is out of receivership. map Ry Age 113:450-1 S 19 '42

New Chandler act; several railroads will be aided in refinancing. Business Week p83-4 Ap 11 '42

New delay for rail reorganizations. H. F. Wyeth. Barron's 21:7 D 22 '41

New Haven revamp plan modified by I.C.C. Ry Age 113:626+ O 17 '42

New ICC plan for the New Haven. A. Jansen. Barron's 22:19-20 O 26 '42

Norfolk Southern emerges from receivership. map Ry Age 112:341-3 F 7 '42

Railroad reorganizations under the Bankruptcy act. W. H. S. Stevens. bibliog J Business 15:205-24, 361-81 Jl-O '42

Railroad securities; general defaulted rail market. Comm & Fin Chr 155:1933 My 21 '42

Railroad securities; increase in speculative interest in entire reorganization group. Comm & Fin Chr 155:837 F 26 '42

Railroad securities; reorganizations turned back by the Circuit courts. Comm & Fin Chr 154:1541 D 18 '41

Railroad securities; speculation in reorganization bonds. Comm & Fin Chr 156:1517 O 29 '42

Railroads in the hands of receivers or trustees on Dec. 31, 1941; tabulation. Ry Age 112:75 Ja 3 '42; Same abr. Comm & Fin Chr 155:403 Ja 27 '42

Reorganization of railroad corporations; a study of the public interest. W. H. Moore. 173p bibliog(p171) $3 Am. council on public affairs, Washington, D.C. '41

Reorganizations—do they restore credit or destroy it? F. R. Dick. Ry Age 113:488-91, 521-4 S 26-O 3 '42

Reorganized rails have favorable outlook. P. B. McGinnis. Comm & Fin Chr 156:793, 804-8 S 3 '42

Study assails rigid financial structure of reorganized rails. W. H. Moore. Comm & Fin Chr 155:27 Ja 1 '42

Summary of railroad receiverships and trusteeships, 1876 to 1941; tabulation. Ry Age 112:76 Ja 3 '42

Tax loss looms in C.&N.W. plan. Ry Age 111:1055-6 D 20 '41

Voluntary adjustments of railroad obligations law. Comm & Fin Chr 156:1560 O 29 '42

Records

Keeping tab on traffic by shippers and commodities; Missouri Pacific system. J. R. Staley. Ry Age 112:497-8 Mr 7 '42

Records and accounts; A.R.E.A. committee report. Ry Age 112:610-11 Mr 21 '42

See also
Railroads—Accounting

Regulation

See Interstate commerce commission; Railroads and state

Reorganization

See Railroads—Receiverships

Rolling stock

80,000 new cars needed for 1943 to relieve pressure on railroads. Steel 111:37 S 21 '42

Emergency requires full use of present equipment; pool surplus equipment and shop facilities. W. T. Clark. Ry Mech Eng 116:186-7 Ap '42

RAILROADS—Rolling stock—*Continued*

Equipment prices, 1941. Ry Age 112:124-5 Ja 3 '42
How the railroads did it; squeezing a lot more out of everything they own. il Fortune 26:120-2+ N '42
Joint committee issues rolling stock bulletin. Weekly Underw 146:433 F 21 '42
Mechanical engineers in the transportation emergency; viewpoint of equipment builder. W. C. Dickerman. Mech Eng 64:35-7 Ja '42; Excerpts. Ry Age 111:1083-4 D 27 '41; Ry Mech Eng 116:3-4 Ja '42
Priority aid for new locomotive, freight car materials assigned. Steel 110:35 Ja 12 '42
Progress in railway mechanical engineering, 1940-1941. il Mech Eng 63:879-92 D '41
Railroads must have equipment. J. J. Pelley. Ry Age 113:640-1 O 24 '42
Roads will get cars authorized in 1942; locomotive situation very indefinite. J. J. Pelley. Ry Age 113:26+ Jl 4 '42
War production board fixes 1942 equipment program. Ry Age 112:753-4 Ap 11 '42

See also

Cars
Freight cars
Locomotives
Motor cars (railroad)
Refrigerator cars
Tank cars

Safety measures

Bureau of safety annual report. Ry Age 112:211-12 Ja 17 '42; Ry Mech Eng 116:65-6 F '42
Control of injuries; Roadmasters and maintenance of way association committee report. Ry Age 113:495 S 26 '42
Hazards of derailments reduced; safety guide holds derailed cars in line with the track. L. R. Schuster. il Ry Age 113:438-41+ S 19 '42; Same, with diag. Ry Mech Eng 116:521-3+ D '42
How cooperative plan works; safety rules devised as result of conferences. C. F. Maw. Ry Mech Eng 116:339-41 Ag '42
Passenger safety records win Harriman awards. Nat Safety N 46:56 Ag '42
Preventing accidents; American railway bridge and building association committee report. Ry Age 113:735-6 N 7 '42

See also

Air brakes
Grade crossings
Harriman memorial medals for safety

Sanitation

See also

Car sanitation
Railroads—Water supply

Schedules

Diesel-electrics for freight and passenger service; New York, New Haven & Hartford. Ry Age 112:749-50 Ap 11 '42; Same. Ry Mech Eng 116:211+ My '42
End of April brings minor schedule changes this year. Ry Age 112:880 My 2 '42
How to reduce station delays to passenger trains. Ry Age 113:131-3 Jl 25 '42
New 400's give unique service; four new streamlined trains, Chicago & North Western. il Ry Age 112:650-2 Mr 28 '42
Rail cooperation; three roads enlarge Chicago-Miami service by running trains on alternating schedule. Business Week p38 D 6 '41

Scrap material

A. A. R. conducts conservation drive. Ry Age 113:108+ Jl 18 '42
More effort urged in railroad scrap quest. B. C. Bertram. Ry Age 113:529-32 O 3 '42
Railroads giving steel for steel; return four tons of scrap for each ton of new. C. B. Aitchison. Ry Age 113:455+ S 19 '42
Railroads heed the Nation's plea for rail and scrap. Ry Age 113:90-2+ Jl 18 '42
Railroads helping to get out costly scrap. Ry Age 113:532 O 3 '42
Reclamation plant, a dependable source of material. G. A. Goerner. Ry Mech Eng 116:299-302 Jl '42; Same. Ry Age 112:1204-7 Je 20 '42; Discussion. Ry Mech Eng 116:302 Jl '42
Report on scrap. L. L. Studer. il Ry Age 113:222-3 Ag 8 '42
Scrap for victory; Illinois Central employees search corners and dumps. il Ry Age 113:4-8 Jl 4 '42; Abstract. Metals & Alloys 16:262 Ag '42
Scrap tour a success. Ry Age 113:146 Jl 25 '42
Scrap; 2 million tons in 7 months. il Ry Age 113:564-7 O 10 '42
Scrap; what one road found. C. M. Chumley. Ry Age 113:527-8 O 3 '42

Securities

Appraisal of two new Wabash bonds; new first mortgage and income bonds series A priced conservatively. F. M. Stern. Barron's 22:18 Ag 17 '42
Are railroad securities undervalued? P. C. Andersen; T. F. Woodlock. Barron's 22:3, 8 Jl 6 '42
Baltimore & Ohio bonds. Comm & Fin Chr 155:5 Ja 1 '42
Bargains in senior rail bonds. A. Jansen. Barron's 22:8 Ap 6 '42
Bondholder's guide. Published in Barron's
Case for selected railroads. Comm & Fin Chr 155:1531 Ap 16 '42
Distinct advantage offered defaulted rails which have not reached reorganization stage. J. Post. Comm & Fin Chr 155:2299 Je 18 '42
Estimated effects of increased railway wages; tabulation. Mag of Wall St 69:151 N 15 '41
Examining basis for improved market status of rail securities. B. M. Fullerton. Mag of Wall St 69:540-2+ F 21 '42
Five exceptional opportunities in rail bonds. J. S. Williams. Mag of Wall St 69:484+ F 7 '42
Generous yields on Reading bonds. A. Jansen. Barron's 22:19-20 F 16 '42
Indicated 1941 rail earnings giving effect to final wage settlement; tabulation. Mag of Wall St 69:267 D 13 '41
Interest payments in 1942 on defaulted or deferred bonds. Mag of Wall St 71:81 O 31 '42
Investment survey of the railroads. F. R. Walters. il Mag of Wall St 70:656-7+ O 3 '42
Investors' interest still lacking. Ry Age 112:71-6+ Ja 3 '42
Large additions to New York legal list. A. Jansen. Barron's 22:9 Jl 6 '42
Large bond purchases by rails in 1941. A. Jansen. Barron's 22:15 Je 22 '42
Large earnings aid M-K-T bonds. A. Jansen. Barron's 22:19-20 O 19 '42
Legal investments; New York state legal list. Bankers M 145:131-2 Ag '42
Must pay dividends on worthless stock of defunct railroad; Southern must continue dividends on stock of Mobile & Ohio. Ry Age 112:231-2 Ja 17 '42
New ICC plan for Denver & Rio Grande; latest proposal has good prospects of adoption. A. Jansen. Barron's 22:19-20 Ag 17 '42
New York Central bonds sharply depressed. A. Jansen. Barron's 21:19-20 D 15 '41
Outstanding profit-income opportunities in rail bonds. J. S. Williams. il Mag of Wall St 69:200-1+ N 29 '41
Position of leading railroad stocks. Mag of Wall St 69:435 Ja 24 '42
Presents case for speculative rail bonds. N. Molodovsky. Comm & Fin Chr 155:2299 Je 18 '42
Price ceiling on defaulted rails; heavy institutional liquidation overhangs the market. A. Jansen. Barron's 22:9 My 18 '42
Rail bond fund for banks; correcting one-way market in the more speculative issues. E. S. Brooks. Barron's 21:18 D 1 '41
Railroad securities. Published in weekly Thursday numbers of Commercial & financial chronicle
Railroad securities; Chicago & North Western income 4½s. Comm & Fin Chr 154:1013 N 13 '41
Railroad securities; increase in speculative interest in entire reorganization group. Comm & Fin Chr 155:837 F 26 '42

RAILROADS—Securities—*Continued*

Railroad securities; tax proposals cause reappraisal. Comm & Fin Chr 155:1029 Mr 12 '42
Railroad securities; Western Maryland bonds. Comm & Fin Chr 154:1317 D 4 '41
Railroad traffic at all-time peak; position of leading stocks. Mag of Wall St 70:394-5+ Jl 25 '42
Railroads added to New York legal list. Trusts & Estates 75:68 Jl '42
Reorganized rails have favorable outlook. P. B. McGinnis. Comm & Fin Chr 156:793, 804-8 S 3 '42
Report of railroad securities committee, I.B.A. Comm & Fin Chr 154:1449 D 11 '41
Securities yielding 8% with ample coverage. J. S. Williams. Mag of Wall St 70:654 O 3 '42
Six rail securities for appreciation. S. Devlin. Mag of Wall St 70:557, 570-1 S 5 '42
Some attractive junior rail bonds; selected issues of Illinois Central. Comm & Fin Chr 155:1138 Mr 19 '42
Tendency to do away with underlying divisional liens in favor of single blanket mortgage. Comm & Fin Chr 154:1109+ N 20 '41
Texas & Pacific bonds at low levels. A. Jansen. Barron's 22:15 Ag 24 '42
Unusual speculation; Norfolk southern railway. Mag of Wall St 71:35 O 17 '42

See also
Railroads—Equipment trust certificates

Service

Railways met 1941 demands with flying colors. C. Layng. il Ry Age 112:26-8+ Ja 3 '42

See also
Freight car service
Freight handling
Railroads—Passenger service

Shops

All out from the neck up; converting railroad shops to war production. il Fortune 26:80-2+ Jl '42
Emergency requires full use of present equipment; pool surplus equipment and shop facilities. W. T. Clark. Ry Mech Eng 116:186-7 Ap '42
Time and material saving ideas in the field of railroad practice. H. H. Moor and others. il diags Ry Mech Eng 116:171-84 Ap '42
War work of the South African railway workshops. Engineer 173:367 My 1 '42

See also
Car shops
Locomotive shops

Equipment

Cemented-carbide tipped tools increase efficiency in railroad maintenance shops. diags Mach 49:186-8 O '42
Excess machine capacity offers an opportunity for service; idle hours of machine tools in railroad shops can be used in defense work. H. C. Wilcox. Ry Age 112:49 Ja 3 '42
Machine gas cutting in the railroad shop. il Ry Mech Eng 116:266-7 Je '42
Near infra-red baking and drying. il Ry Age 112:1111 Je 6 '42
Report of committee on shop tools; Locomotive maintenance officers' assn. Ry Mech Eng 116:474-6 N '42
Sintered carbide tools on railroad machining jobs. E. T. Broaddus. il Ry Mech Eng 116:220-2 My '42

Signals

Block system for medium traffic lines. Ry Age 112:743-4 Ap 11 '42
Centralized traffic control expedites war traffic on the Louisville & Nashville. il plan Ry Age 113:263-6 Ag 15 '42
Centralized traffic control on the Norfolk & Western. il diag Ry Age 112:377-9 F 14 '42
Centralized traffic control puts more trains over an Erie cut-off. il plan Ry Age 113:93-5 Jl 18 '42
Centralized traffic control saves train time on the Southern Pacific. il plan Ry Age 113:697-701 O 31 '42
Centralized traffic control signaling installed on Milwaukee road. il diags Ry Age 112:857-61 My 2 '42
Centralized traffic control solves track capacity problem on Seaboard. il plan Ry Age 112:1181-4 Je 20 '42
Modern entrance-exit interlocking replaces mechanical plant on Indiana Harbor belt. il plans Ry Age 112:294-7 Ja 31 '42
Modern signaling contributes to passenger progress. il Ry Age 111:871-3 N 22 '41
Modern signaling keeps freight moving. il Ry Age 112:1018-20+ My 23 '42
Modern signaling keeps trains moving. J. H. Dunn. il Ry Age 112:37-9+ Ja 3 '42
New C.T.C. absorbs the war load on the Pennsylvania. il plan Ry Age 113:484-6 S 26 '42
Non-stop permissive signals save train time. Ry Age 111:1071-2 D 27 '41
Pere Marquette improves passing tracks and signaling. il plans Ry Age 112:1076-9 My 30 '42
Photo-electric block system speeds tunnel trains; construction trains in the 13-mile Continental Divide tunnel. il Eng N 128:752 Ap 30 '42; Elec Eng 61:457 S '42; Elec West 89:44 N '42
Protection at 38 street crossings in Rock Island, Ill. il plan Ry Age 112:655-7 Mr 28 '42
Railroad operation and railway signaling. E. J. Phillips, jr. 214p $1 Simmons-Boardman '42
Railway signalling for wartime traffic. il diags Engineer 174:2-4, 22-5 Jl 3-10 '42
Signal construction continued at high level in 1941. M. Peacock. il Ry Age 112:129-35 Ja 3 '42

Standards

How the mechanical engineer can aid national defense; symposium on transportation at railroad sessions of A.S.M.E. annual meeting. Ry Age 111:1083-8 D 27 '41; Ry Mech Eng 116:1-5+ Ja '42
Railroad standards flexible, not fixed. C. H. Buford. Ry Age 111:1084-6 D 27 '41; Same. Ry Mech Eng 116:4-5 Ja '42

Stationery

Stationery and printing. W. W. Griswold. Ry Age 113:225 Ag 8 '42

Stations

Attractive structures feature this grade separation; Aqueduct, Queens county, Long Island; new passenger station. il plans Ry Age 111:995-8 D 13 '41
C.&N.W. gives "400" aspect to its Milwaukee station. il plan Ry Age 112:814-18 Ap 25 '42
Lackawanna raises tracks above streets in Syracuse, N.Y.; project includes new station. il map Ry Age 112:896-900, 902 My 9 '42
Making a 72-year old passenger station look like new; structure at Mansfield, Ohio. il plans Ry Age 111:903-7+ N 29 '41
Missouri Pacific modernizes six passenger stations. il Ry Age 112:299-301 Ja 31 '42
Modernistic rail-bus station the talk of the town; new structure on the D. & R.G.W. at Salida, Colo. il plans Ry Age 112:442-4 F 28 '42
Old station on the Omaha appears in modern dress; Eau Claire, Wis. il plan Ry Age 112:1186-7+ Je 20 '42
Passenger progress cannot outstrip the track; fuel, water facilities, and passenger stations must be modernized. il Ry Age 111:869-70 N 22 '41
Railways and air raids; railway buildings. il Engineer 173:361-4 My 1 '42
Southern Pacific replaces obsolete stations, improves operation at Alhambra and Pomona. il Ry Age 113:296-8 Ag 22 '42
Streamline outmoded Union station at Shreveport, La. il plan Ry Age 113:102-6 Jl 18 '42

See also
Railroads—Terminals

RAILROADS—Stations—*Continued*

Lighting

Getting more light on less power; Washington terminal now has fluorescent lighting. il Ry Age 113:134-5 Jl 25 '42

Statistics

Company material is 7.5 per cent of revenue ton-miles. Ry Age 113:610-13 O 17 '42

Freight operating statistics of large steam railways, selected items for the month of December, 1941 compared with December 1940. Ry Age 112:471-2 F 28 '42 [cont monthly]

Material supplies decline further. Ry Age 113:658-60 O 24 '42

1941, railway review and outlook, 1942. Ry Age 112:1-5 Ja 3 '42

1941 service records. J. J. Pelley. Ry Age 112:142-3 Ja 3 '42; Same abr. Ry Mech Eng 116:36-7 Ja '42

1941 traffic 84.5 per cent of potential. Ry Age 113:414-15 S 12 '42

Operating revenues nearly 10% over '29. Ry Age 113:626-7 O 17 '42

Passenger service ratio below 100. Ry Age 113:281-2 Ag 15 '42

Pennsylvania reports on its large 1941 traffic. Ry Age 112:534+ Mr 14 '42

Railroad construction indices for 1941. Ry Age 113:268-9 Ag 15 '42

Railway statistical terms, a collection of definitions of words and phrases frequently used in discussions of railway statistics. 58p U.S. Interstate commerce commission, Bur. of statistics, Washington '41

Revenue tonnage and mileage figures to supplant carloadings data as traffic gauge. Comm & Fin Chr 156:189 Jl 16 '42

Review of railway operations in 1941. J. H. Parmelee. Ry Age 112:52-63 Ja 3 '42

Storekeepers build up inventories to war strength. Ry Age 112:695-701+ Ap 4 '42

Traffic trends get close study on the New Haven. Ry Age 113:302-5 Ag 22 '42

Yearbook of railroad information. 1941 ed 96p pa gratis Committee on public relations of the eastern railroads, New York '41

See also

Cars—Statistics

Freight cars—Statistics

Railroads—Mileage

Stores systems

Needs: new supplies plus thrift. C. H. Buford. Ry Age 113:207 Ag 8 '42

New Haven storekeeping ready for emergencies. il Ry Age 112:407-11 F 21 '42

Southern stores using fewer cars. il Ry Age 111:1078-81 D 27 '41

Terminal storekeeping. R. H. Bruckert. Ry Age 113:227-8 Ag 8 '42

See also Association of American railroads—Purchases and stores division

Switching

Centralized traffic control expedites war traffic on the Louisville & Nashville. il plan Ry Age 113:263-6 Ag 15 '42

Centralized traffic control on the Norfolk & Western. il diag Ry Age 112:377-9 F 14 '42

Centralized traffic control puts more trains over an Erie cut-off. il plan Ry Age 113:93-5 Jl 18 '42

Centralized traffic control saves train time on the Southern Pacific. il plan Ry Age 113:697-701 O 31 '42

Centralized traffic control signaling installed on Milwaukee road. il diags Ry Age 112:857-61 My 2 '42

Centralized traffic control solves track capacity problem on Seaboard. il plan Ry Age 112:1181-4 Je 20 '42

Economy in yard operation. Ry Age 112:525-6 Mr 14 '42

How to study requirements for Diesel switchers; cost comparison; typical application report. A. H. Candee. Ry Age 112:1235-9 Je 27 '42

Modern entrance-exit interlocking replaces mechanical plant on Indiana Harbor belt. il plans Ry Age 112:294-7 Ja 31 '42

New C.T.C. absorbs the war load on the Pennsylvania. il plan Ry Age 113:484-6 S 26 '42

Switching at small industrial centers on the B. & M. il Ry Age 113:558-9 O 10 '42

Taxation

Pact on rail tax; roads crossing New Jersey allowed to pay off in instalments. Business Week p67-8 My 30 '42

Railroad securities; decision, finding Delaware, Lackawanna & Western not liable for federal income taxes on rental income of leased lines. Comm & Fin Chr 155:1525 Ap 16 '42

Reorganized rails face higher taxes. Barron's 22:12 F 9 '42

Tax status of 24 railroads. A. Jansen. Barron's 22:9+ O 12 '42

Working for government. Ry Age 113:258-9 Ag 15 '42; Same. Pub Util 30:510-11 O 8 '42

Telegraph

T&T facilities increased in '41. J. H. Dunn. il Ry Age 112:126-8 Ja 3 '42

Teleprinter network; L.N.E.R. installation. il Elec R (Lond) 130:799-800 Je 19 '42; Electrician 128:554-6 Je 5 '42

Telephone

Automatic telephones used on Illinois Central. il plan Ry Age 111:908-9+ N 29 '41

New L.N.E.R. traffic control office in the Scottish area. il Engineer 173:226-7 Mr 13 '42

T&T facilities increased in '41. J. H. Dunn. il Ry Age 112:126-8 Ja 3 '42

Terminals

Chicago & north western streamlines its streamliner servicing at Chicago terminal. il diags plan Ry Age 112:1068-74+ My 30 '42

Yards and terminals; A.R.E.A. committee report. Ry Age 112:611-12 Mr 21 '42

See also

Railroads—Stations

Railroads—Yards

Track

Construction and maintenance up in 1941 but further increase needed to meet demands. N. D. Howard. il Ry Age 112:32-6 Ja 3 '42

Defense plants call for track construction on a major scale. M. H. Dick. il Ry Age 112:40-3 Ja 3 '42

Engineering in transportation as essential as engineering in war. il Ry Age 112:1010-17 My 23 '42

Passenger progress cannot outstrip the track. il Ry Age 111:866-70+ N 22 '41

Pere Marquette has rehabilitated its Canadian division. diag map Ry Age 113:340-3 Ag 29 '42

Pere Marquette improves passing tracks and signaling. il plans Ry Age 112:1076-9 My 30 '42

Recent developments in tamping practices; Roadmasters and maintenance of way association committee report. Ry Age 113:527 O 3 '42

Report on track; A.R.E.A. committee. Ry Age 112:604-6 Mr 21 '42

Research and machines; key to track maintenance in war. A. E. Perlman. il Ry Age 112:745-8 Ap 11 '42

Roads await action on steel for track. Ry Age 112:303-4 Ja 31 '42

Roadway and ballast; A.R.E.A. committee report. Ry Age 112:602-4 Mr 21 '42

77 trains a day on single track; centralized traffic control on Illinois division of the Missouri Pacific. il Ry Age 113:724-6 N 7 '42

Track materials in the war effort. W. W. Kelly. Ry Age 113:497-8 S 26 '42

RAILROADS—Track—*Continued*

Track problems in operation of streamliners. H. B. Christianson. il Civil Eng 12:355-8 Jl '42

See also

Grade crossings
Mine tracks
Railroad ties
Railroads—Construction
Railroads—Gages
Rails

Track elevation

Dunkirk grade separation project has interesting features. il plan Ry Age 113:445-8 S 19 '42
Lackawanna raises tracks above streets in Syracuse, N.Y.; project includes new station. il map Ry Age 112:896-900, 902 My 9 '42
Lifting the Lackawanna tracks off the streets of Syracuse. il Eng N 127:911 D 25 '41

Track making machinery

Maintenance of roadway equipment; Roadmasters and maintenance of way association committee report. Ry Age 113:528 O 3 '42

Traffic

ODT head before Truman committee; Eastman sees carriers handling 12 to 15 per cent more traffic this year. Ry Age 112:867+ My 2 '42
Traffic trends get close study on the New Haven. Ry Age 113:302-5, 344-7 Ag 22-29 '42

See also

Railroads—Freight
Railroads—Passenger traffic

Train dispatching

Centralized traffic control on the Norfolk & Western. il diag Ry Age 112:377-9 F 14 '42
Centralized traffic control saves train time on the Southern Pacific. il plan Ry Age 113:697-701 O 31 '42
Centralized traffic control signaling installed on Milwaukee road. il diags Ry Age 112:857-61 My 2 '42
Centralized traffic control solves track capacity problem on Seaboard. il plan Ry Age 112:1181-4 Je 20 '42
Modern entrance-exit interlocking replaces mechanical plant on Indiana Harbor belt. il plans Ry Age 112:294-7 Ja 31 '42
Modern signaling keeps freight moving. il Ry Age 112:1018-20+ My 23 '42
Modern signaling keeps trains moving. J. H. Dunn. il Ry Age 112:37-9+ Ja 3 '42
New C.T.C. absorbs the war load on the Pennsylvania. il plan Ry Age 113:484-6 S 26 '42
New L.N.E.R. traffic control office in the Scottish area. il Engineer 173:226-7 Mr 13 '42
Railway signalling for wartime traffic. il diags Engineer 174:2-4, 22-5 Jl 3-10 '42
Railway traffic control; new L.N.E.R. installation. Electrician 128:138-9 F 20 '42
77 trains a day on single track; centralized traffic control on Illinois division of the Missouri Pacific. il Ry Age 113:724-6 N 7 '42

Train speed

Hotshots flagged; fast passenger trains may have to trim speed. Business Week p24+ N 7 '42
Motive power for higher speeds. il Ry Age 111:858-61 N 22 '41
Track problems in operation of streamliners. H. B. Christianson. il Civil Eng 12:355-8 Jl '42

Trains

Another record year in passenger progress. il map Ry Age 111:818-28 N 22 '41
Chicago & north western streamlines its streamliner servicing at Chicago terminal. il diags plan Ry Age 112:1068-74+ My 30 '42
Denver and Rio Grande Western installs two-car deluxe trains. il plan Ry Mech Eng 115:503-7+ D '41; Same. Ry Age 111:952-5 D 6 '41
Economics of the new Empire State express. C. W. Meyer. Ry Age 111:1027-8+ D 20 '41
Handling Diesel-electric freight trains; Railway fuel and traveling engineers' assn. committee report. Ry Mech Eng 116:480-2 N '42
Illinois Central buys two-car self-propelled train. il plan Ry Age 111:986-90 D 13 '41
Locomotive without classification signals. Ry Age 111:795 N 15 '41
March of the streamliners; descriptions and other data. il Ry Age 111:829-48 N 22 '41
New 400's give unique service; four new streamlined trains, Chicago & North Western. il Ry Age 112:650-4 Mr 28 '42
Stainless steel cars for the Empire State express. il plans Ry Age 111:1029-37 D 20 '41
Trains in transition. L. Beebe. 210p $5 Appleton-Century '41

See also

Cars
Motor cars (railroad)

Wages

Back to the Emergency board. Ry Age 111:921-2 N 29 '41
Board recommends rail wage increase. Comm & Fin Chr 154:1230 N 27 '41
Byrnes to decide wage case routine; to set procedure for railway disputes. Ry Age 113:704+ O 31 '42
Eastern railroads refuse firemen's wage bid. Ry Age 113:381 S 5 '42
Eastman sets new wages for T.P. & W. Ry Age 113:26 Jl 4 '42
Facts or fiction about the railroads; excerpts from Emergency board's report. Ry Age 111:783-7 N 15 '41
Firemen propose pay base change. Ry Age 113:33 Jl 4 '42
Higher railway wages. Economist 142:369-70 Mr 14 '42
Hours and wages for continuous operation. Ry Age 112:742-3 Ap 11 '42
Mediating is not fact-finding; Emergency board report on wage-case settlement. Ry Age 111:992-4 D 13 '41
Non-operating rail unions want another wage boost. Barron's 22:16 S 28 '42
Non-ops ask pay rise. Ry Age 113:535 O 3 '42
Non-ops settle labor controversy; reach agreement on wages and vacations. Ry Age 111:1055+ D 20 '41
OPA is rate case agent for Byrnes; WLB over wages. Ry Age 113:670-1 O 24 '42
Peace on the rails. Business Week p96-8 D 6 '41
Railroad concessions end wage issue. Ry Age 111:956-60 D 6 '41
Railroad securities; non-operating unions demand for wage increase. Comm & Fin Chr 156:1165 O 1 '42
Railroad wage controversy settlement. Comm & Fin Chr 154:1429 D 11 '41
Railroad wages under the new scale of pay. Ry Age 112:636-7 Mr 28 '42
Railway wage case reaches White House. Ry Age 111:884+ N 22 '41
Recommendations of railway Emergency board. Monthly Labor R 53:1421-5 D '41
Short-line wage report submitted. Ry Age 113:460-1 S 19 '42
Specific rates of pay under new set-up. Ry Age 111:990-1 D 13 '41
Standard wages for the T.P.&W.; WLB decree. Ry Age 113:615-17 O 17 '42
Strike called; non-operating unions object to Emergency board's report. Ry Age 111:781-2 N 15 '41
Toledo, Peoria & Western wage case hearings concluded. Ry Age 113:67 Jl 11 '42
Wage boost accruals hit rail net. Barron's 21:12 D 1 '41
Wage case finally concluded. Ry Age 111:1001 D 13 '41

RAILROADS—Wages—*Continued*

Wage increase more than owners' 9-months' income on some roads. Ry Age 112:15-17 Ja 3 '42

What the rail wage settlement means. Barron's 21:12 D 8 '41

Water supply

Treating boiler feedwater chemically. F. B. Horstmann. il Ry Mech Eng 116:458-61 N '42

Water service, fire protection and sanitation; A.R.E.A. committee report. Ry Age 112:598-600 Mr 21 '42

Waterways competition

How cheap is river transport? with cost data. C. E. Troxel. Ry Age 113:408-11 S 12 '42

Yards

Economy in yard operation. Ry Age 112:525-6 Mr 14 '42

Large additions to yards which progress the war effort; Norfolk & Western at Portsmouth, Ohio. il plan Ry Age 113:230-3 Ag 8 '42

Railway personnel problems; how to select and train yard forces; committee report. Ry Age 111:917-19 N 29 '41

Why St Louis is no bottleneck; Terminal railroad association is keeping heavy traffic moving. il map Ry Age 113:655-7+ O 24 '42

Yards and terminals; A.R.E.A. committee report. Ry Age 112:611-12 Mr 21 '42

Argentina

Argentine railways and nationalisation. Economist 142:899-900 Je 27 '42

Argentine railways request. Economist 142:232 F 14 '42

Buenos Ayres and Pacific accounts for the year ended June 30th. Economist 141:659 N 29 '41

Buenos Aires Great Southern setback. Economist 141:512 O 25 '41

War needs speed work on Chile-Argentine rail link. map For Comm W 9:11+ O 24 '42

See also Railroads—Electrification—Argentina

Australia

Australian railway system's rôle in defense. A. C. Selke. Pub Util 30:89-93 Jl 16 '42

Australia's railways built to many gages. map Ry Age 112:754-5 Ap 11 '42

Bolivia

Bolivian railway problem. For Comm W 8:19 S 5 '42

High-altitude Bolivian railcars; abstract. D. F. Flowers and F. F. Flowers. il S A E J 50:sup45-6 Je '42

Brazil

Reclaiming used rails on the Paulista railway. Engineering 153:19-20 Ja 2 '42

See also Railroads—Electrification—Brazil

California

Bonanza railroads. G. H. Kneiss. 148p bibliog(p141-5) $3 Stanford univ. press '41

Canada

Canada's railways' 3rd war year. il Ry Age 112:64-7 Ja 3 '42

Canadian locomotive experiences. E. H. Livesay. il diags maps Engineer 174:198-200, 210-13, 230-3, 250-3, 272-5, 293-5 S 4-O 9 '42

C.P.R. has new diner on its maritimes run. il Ry Age 113:614+ O 17 '42

Pere Marquette has rehabilitated its Canadian division. diag plan map Ry Age 113:340-3, 369-71 Ag 29-S 5 '42

Rail link to Alaska? map Business Week p22 S 12 '42

Railway construction makes further gains. G. E. Boyd. il Ry Age 112:92-102 Ja 3 '42

Railways and the war effort, synonymous terms in Canada. il Ry Age 112:1041-4 My 23 '42

Statistics of steam railways of Canada for the year ended Dec. 31, 1940. 228p pa 50c Canada. Dominion bur. of statistics, Ottawa '42

Summary of monthly railway traffic reports for year ended Dec. 31, 1941. 27p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

See also
Canadian Pacific railway

Central America

Railway connection to Central America; all-rail route an economy. Ry Age 113:352 Ag 29 '42

Ceylon

News by commodities. For Comm W 6:25 F 28 '42

Chile

War-needs speed work on Chile-Argentine rail link. map For Comm W 9:11+ O 24 '42

Eastern states

Holiday travel heavy in East. Ry Age 113:423-4 S 12 '42

Rail oil movement to east coast; abstract. J. J. Pelley. Ry Age 113:379 S 5 '42

France

French locomotive performances. O. S. Nock. il diags map Engineer 173:110-13, 132-4 F 6-13 '42; Discussion. 173:186, 266, 289-90, 329, 369-70, 430-1, 495-6; 174:33-4, 73-4, 115-16, 154-5 F 27, Mr 27-Ap 3, 17, My 1, 22, Je 12, Jl 10, 24, Ag 7, 21 '42

French railway traffic. Economist 143:14-15 Jl 4 '42

Passenger-train service cut to one-third. For Comm W 5:14-15 N 22 '41

Germany

Conditions on the Reichsbahn. For Comm W 8:18-19 Jl 18 '42

Railway transport, 1941. Economist 142:896 Je 27 '42

Great Britain

Accidents on railways; report on accidents on railways of Great Britain during 1941. Engineering 154:112 Ag 7 '42

British accident statistics show wartime effects. Ry Age 113:502 S 26 '42

British roads set up post-war plan group. Ry Age 112:706 Ap 4 '42

Centenary of the Edinburgh and Glasgow railway. il diag Engineer 173:192 F 27 '42

Heat treated rails widely used in Great Britain. C. J. Allen. il diags Metal Prog 41:671-5+ My '42

How main line railways work. Gas J (Lond) 239:355 S 2 '42

London, Midland and Scottish railway company, Southern railway company, Great western railway company, London and north eastern railway company; annual general meetings, London. Economist 142:371-4 Mr 14 '42

New L.N.E.R. traffic control office in the Scottish area. il Engineer 173:226-7 Mr 13 '42

Post-war railway problems. J. G. B. Sams Engineering 153:294-5 Ap 10 '42

Railway receipts and expenditure, 1939-1941 Economist 142:578 Ap 25 '42

Railway reports. Engineering 153:251-2 Mr 27 '42

Railways and air raids. il diags Engineer 173:136-9, 152-4, 174-7, 196-7+, 220-2, 244-6, 247, 270-3, 280-1, 302-4, 322-5, 340-2, 361-4 F 13-My 1 '42

Southern (England) mixed traffic locomotives. il Ry Mech Eng 116:377-8 S '42

See also
Railroads and state—Great Britain

RAILROADS—*Continued*

Illinois

See also
Illinois central railroad

India

Indian railways during 1940-41. For Comm W 7:28 My 2 '42

State railways show surplus for 1940-41. For Comm W 7:15 My 16 '42

Iowa

Analysis of accounting practice in railroad abandonments in Iowa from 1920-1940. E. S. Lynch. (Engineering exp. station bul. 149) 55p Iowa state college of agriculture and mechanic arts, Ames '41

Mexico

Mexican railways under new management; properties returned to government for operation. il Ry Age 112:68-70 Ja 3 '42

Mexico expands its railway system. Eng N 129:27 Jl 2 '42

Mexico maps changes in railroad system. Eng N 128:961 Je 11 '42

Railway construction makes further gains. G. E. Boyd. il Ry Age 112:92-102 Ja 3 '42

Rolling stock, Mexican railways, 1940; chart. For Comm W 6:24 Ja 17 '42

Signs of life; Mexican subsidiary of Southern Pacific. Business Week p91-2 My 23 '42

See also Railroads and state—Mexico

Mozambique

Steel coaches to East Africa. il Ry Age 113:50-1 Jl 11 '42

Nevada

Bonanza railroads. G. H. Kneiss. 148p bibliog(p141-5) $3 Stanford univ. press '41

New Jersey

Pact on rail tax; roads crossing New Jersey allowed to pay off in instalments. Business Week p67-8 My 30 '42

New York (state)

New York state tells railroads how to blackout. Ry Age 112:1155 Je 13 '42

See also New York, Westchester & Boston railway

New Zealand

New Zealand railways. Electrician 127:242 O 24 '41

Railway equipment, year ended Mar. 31, 1941. For Comm W 6:23-4 Ja 10 '42

Persia

Axis threatens Soviet supply line across Iran. il map Business Week p35 Jl 11 '42

Russia

Soviet railways. Economist 142:469-70 Ap 4 '42

South Africa

South African railways in 1941; record year in the workshops. Electrician 128:83-4 F 6 '42

Women on South African railways. T. Seawright. il Ry Age 113:608-9+ O 17 '42

Southern states

See also
Southern railway

Spain

Developments in Spain. For Comm W 8:30 Jl 4 '42

Shortage of rolling stock in Spain. For Comm W 9:26 O 17 '42

Sweden

Capital expenditure on the State railways during 1942. For Comm W 6:25 Ap 4 '42

See also Railroads—Electrification—Sweden

Switzerland

Federal Railways do record business in 1941. For Comm W 6:12 Mr 14 '42

Swiss railroads map 10-year building program. Eng N 128:750 Ap 30 '42

See also Railroads—Electrification—Switzerland

Texas

History of the Texas railroads and of transportation conditions under Spain and Mexico and the republic and the state. S. G. Reed. 2d ed 822p $3.50 St Clair pub. co, Houston, Tex. '41

Turkey

Railway building in Turkey during 1941. For Comm W 7:18 Je 13 '42

United States

Active year for railroads. Steel 110:409-12 Ja 5 '42

All the facts about nation's railroads. Am Business 11:37 D '41

Annual report of Board of investigation and research created by the Transportation act of 1940. Ry Age 113:479-83 S 26 '42

Annual report of the I.C.C. Ry Age 112:164-6 Ja 10 '42

Bonanza railroads. G. H. Kneiss. 148p bibliog(p141-5) $3 Stanford univ. press '41

Continued good rail earnings likely. A. Jansen. Barron's 22:28-30 Ja 12 '42

Development of transportation in the United States. J. E. Teal. il Am Soc C E Proc 67:1827-30 D '41; Discussion. 68:289-94, 475-6, 596-602, 807-11, 1809-14 F-My, D '42

Future of the railway industry; abstract. T. W. Van Metre. Bankers M 145:175-6 Ag '42

Gross and net earnings of United States railroads, 1941. Comm & Fin Chr 155:1081-3 Mr 16 '42

How the railroads did it; squeezing a lot more out of everything they own. il Fortune 26:120-2+ N '42

Inherent strength of American railroads presages optimistic long-range future. E. E. Norris. Comm & Fin Chr 155:1343 Ap 2 '42

Job we face; abstract. J. M. Symes. Ry Age 112:1081-2 My 30 '42

Major industry supports general defense. W. H. Hillyer. il Barron's 22:8 Jl 13 '42

Mechanical engineers in the transportation emergency. C. D. Young. Mech Eng 64:33-7 Ja '42; Excerpts. Ry Age 111:1086-7 D 27 '41; Ry Mech Eng 116:2-3 Ja '42

NAM surveys electric power, transportation for defense program. Comm & Fin Chr 154:1228 N 27 '41

Needed: a wise policy based on broad, impartial surveys. R. Budd. Ry Age 111:1087-8 D 27 '41; Same. Ry Mech Eng 116:1-2 Ja '42

1941, railway review and outlook, 1942. Ry Age 112:1-5 Ja 3 '42

Our job which lies ahead; equipment and other problems. F. G. Gurley. Ry Age 112:893-5 My 9 '42

Pledge fulfilled. E. E. Norris. il Manuf Rec 111:22-3+ Ag '42

Post-war planning. R. Budd. Ry Age 113:688-9 O 31 '42

Post-war planning by and for the railroads. E. A. Smith. Ry Age 112:1050-1 My 23 '42

Railroad competition and the oil trade, 1855-1873. R. H. Maybee. 451p bibliog(p409-29) $3 Extension press, Central state teachers college, Mt Pleasant, Mich. '40

Railroad super-performance asked. J. B. Eastman. Ry Age 112:592-4 Mr 21 '42

Railroads are enlisted for the duration. il Ry Age 112:990-9 My 23 '42

Railroads are the backbone of transportation. J. B. Eastman. Ry Mech Eng 116:288-9 Jl '42

Railroads have a future. E. E. Norris. Ry Age 111:790-1 N 15 '41

Railroads in 1941 and prospects for 1942. R. W. Brown. Comm & Fin Chr 155:450 Ja 29 '42

RAILROADS—United States—*Continued*

Railroads, 1941. Survey of Cur Business 22:39-41 F '42

Railroads, once thought outmoded, handling all-time peak traffic. il Steel 111:60-1 Ag 10 '42

Railway construction makes further gains. G. E. Boyd. il Ry Age 112:92-102 Ja 3 '42

Railway service vital to our national objectives; statements from officers. Ry Age 112:976-9 My 23 '42

Railways and post-war planning. S. O. Dunn. Ry Age 113:560-3 O 10 '42

Record volume ahead for rails. Mag of Wall St 69:434-5 Ja 24 '42

Records for rails. Business Week p22+ F 14 '42

Review of railway operations in 1941. J. H. Parmelee. Ry Age 112:52-63 Ja 3 '42

Revolutionary economic changes and how they will hit the railroads. R. B. Eagleston. map Ry Age 112:382-6 F 14 '42

Rôle of transportation in national defense. F. M. Patterson. Pub Util 28:742-8 D 4 '41

Sees roads holding own after the war; abstract. T. Hultgren. Ry Age 113:352-3 Ag 29 '42

They're crowding the rails; the overland transportation problem, growing more acute with mounting war production, is coming to a head on the Southern Pacific. il Fortune 25:82-9+ Je '42

Transportation developments and prospects. R. Budd. Ry Age 112:9-11+ Ja 3 '42

Transportation troubles discussed; luncheon in connection with annual meeting of the Chamber of commerce of the United States. Ry Age 112:903-4 My 9 '42

WPB estimates too low. J. B. Eastman. Ry Age 112:759-60 Ap 11 '42

See also
Freight car service
Railroads and state—
United States
also Association of American railroads
also names of railroads, e.g. New York central railroad

Uruguay

Locomotive modernisation in Uruguay. il diags Engineering 154:245-6 S 25 '42

Venezuela

Venezuela completes railroad network. Eng N 129:529 O 15 '42

Venezuela completes strategic rail network. il map For Comm W 8:9+ S 26 '42

Western states

Western lines defend rate structure. Ry Age 112:1147-8 Je 13 '42

RAILROADS, Cable

Cable cars keep rolling; San Francisco's most picturesque transit vehicles now have new lease of life. il Transit J 86:164-5 My '42

RAILROADS, Industrial

Defense plants call for track construction on a major scale. M. H. Dick. il Ry Age 112:40-3 Ja 3 '42

Material handling at shell loading plants; Auto-Railer used both on roadways and rails. W. F. Sherman. il Iron Age 149:62-6 Mr 26 '42

Steel plant cars; their design, application and features. G. P. Astrom. il Steel 109:82, 85, 88 D 8 '41

See also
Mine tracks

RAILROADS, Military

Army constructs 119-mile railroad at ordnance plant. il Ry Age 112:638-42 Mr 28 '42

Claiborne railway drives gold spike. Ry Age 113:109 Jl 18 '42

First army railway battalion builds a training railroad. il map Ry Age 113:164-7+ Ag 1 '42

Heavy construction on Fort Leonard Wood railroad. D. H. Maxwell and R. F. Bundy. il map W Soc E J 46:255-67 O '41

Military engineering in East Africa. Eng N 128:553 Ap 9 '42

Proposed railroad from the United States to Alaska. W. Davis. Science 95:sup8 Ap 17 '42

This war is the biggest railroad war in history. il Ry Age 112:1045-8 My 23 '42

See also
Railroads—Military use

RAILROADS, Underground. See Subways

RAILROADS and state

See also
Railroad law

Great Britain

How Britain controls transport; railways nominally in government's hands, but operation is left to their managements. il Ry Age 113:142-4 Jl 25 '42

Railways and state control; position of the stockholder. Economist 142:611-12 My 2 '42

Mexico

Mexican railways under new management; properties returned to government for operation. il Ry Age 112:68-70 Ja 3 '42

United States

Government takes over T.P.&W. diag Ry Age 112:660-1 Mr 28 '42

How to stave off anti-trust suits. Ry Age 112:420+ F 21 '42

Morse raps Transportation assn.; member of War labor board answers criticism of its handling of T.P. & W. case. Ry Age 112:792-3 Ap 18 '42

Private versus federal control. P. W. Seiler, jr. Ry Age 113:738-40 N 7 '42

Public ownership of rights-of-way is urged; National resources planning board report. Ry Age 112:252-4 Ja 24 '42

32 pp. of McNear; T.P.&W. president tells what he thinks of U.S. operation of his railroad. Business Week p92 O 24 '42

Toledo, Peoria & Western railroad co. seized by the United States; strike ends. Comm & Fin Chr 155:1248 Mr 26 '42

See also
Interstate commerce commission
Railroad land grants
Railroad law
Railroads—Consolidation
Railroads—Federal loans
Railroads—Rates

RAILROADS in war

American society of mechanical engineers semi-annual meeting, Cleveland; railroad sessions. Ry Mech Eng 116:287-302 Jl '42

Blackouts, but no blot-outs of operations on the Southern Pacific. il Ry Age 112:1144-7 Je 13 '42

Burden which defense and war production have laid upon transportation; abstract. J. B. Eastman. Ry Age 112:1082-3 My 30 '42

Canada's railways' 3rd war year. il Ry Age 112:64-7 Ja 3 '42

Changing pattern of industry; transportation industry. il Adv & Sell 35:40, 43 N '42

Coach seats won't be rationed; abstract. J. B. Eastman. Ry Age 113:379 S 5 '42

Conserve materials by using less. J. L. Walsh. Ry Age 112:1195-7 Je 20 '42

Freight progress in war number. il Ry Age 112:973-1048 My 23 '42

Freight progress in war number; comments by national leaders and shippers. Ry Age 113:168-72 Ag 1 '42

Historical development of military railway service. L. T. Ross. Ry Age 112:257-60 Ja 24 '42

How Britain controls transport; railways nominally in government's hands, but operation is left to their managements. il Ry Age 113:142-4 Jl 25 '42

How railroads rate with public; opinion survey made for the Association of American railroads. Ry Age 113:373-4 S 5 '42

Luxury service to be curtailed. Ry Age 112:1129 Je 6 '42

Major industry supports general defense. W. H. Hillyer. il Barron's 22:8 Jl 13 '42

Military effort strongly reflected in Southern Pacific report. Ry Age 112:451-3 F 28 '42

RAILROADS in war—*Continued*
Military rail service gets set for conflict. C. R. Gray, jr. Ry Age 113:648-50+ O 24 '42
More train seats; most roads will reserve club, lounge, and observation car space. Business Week p44-5 Jl 25 '42
Organization and function of the Military railway service. C. R. Gray, jr. W Soc E J 47:22-9 F '42; Excerpts. Ry Age 112: 440-1+ F 28 '42; Engineer 174:280-1 O 2 '42
Our job which lies ahead; equipment and other problems. F. G. Gurley. Ry Age 112: 893-5 My 9 '42
Passenger-train service cut to one-third in France. For Comm W 5:14-15 N 22 '41
Place of transportation in the war effort; abstracts. R. Budd. Ry Age 113:180-2 Ag 1 '42; il Civil Eng 12:503-6 S '42
Protection of structures; abstract. B. R. Kulp. Ry Age 113:734-5 N 7 '42
Rail curtailment. Business Week p26 Je 13 '42
Railroads plan to cut non-essential travel. Comm & Fin Chr 155:2109 Je 4 '42
Railroads preparing 20 years for this war. J. W. Fitzgerald. Ry Age 113:32 Jl 4 '42
Railroads tackle problem of air-raid precautions. il Ry Age 112:782-6 Ap 18 '42
Railway signalling for wartime traffic. il diags Engineer 174:2-4, 22-5 Jl 3-10 '42
Railways and air raids. il diags Engineer 173:136-9, 152-4, 174-7, 196-7+, 220-2, 244-6, 247, 270-3, 280-1, 302-4, 322-5, 340-2, 361-4 F 13-My 1 '42
Railways meet with OPM to prepare all-out effort. Ry Age 111:1046-8 D 20 '41
Research and machines; key to track maintenance in war. A. E. Perlman. il Ry Age 112:745-8 Ap 11 '42
Results suggest that railroad men know how to railroad. M. W. Clement. Ry Age 112: 1188-90 Je 20 '42
Santa Fe aids the war effort. il Ry Age 113: 694-6 O 31 '42
They're crowding the rails. il Fortune 25: 82-9+ Je '42
Third class only, new railway rule in London area. For Comm W 5:44 N 15 '41
Tight rail freeze? ODT rules on passenger trains. Business Week p17 O 10 '42
Transportation comes through; rails and other carriers in the war emergency. A. Barnes. il Pub Util 30:650-5 N 5 '42
Transportation in wartime. J. B. Eastman. il Banking 35:23-5 S '42; Same. Comm & Fin Chr 156:1083-4 S 24 '42
Transportation in war time. G. Tombs. Pulp & Pa of Can 43:9-12 Ja '42
Transportation must be shrunk. J. B. Eastman. Ry Age 113:577 O 10 '42
Union Pacific war program over 2 years old. Ry Age 112:1211-12 Je 20 '42
War, and after; a challenge to railroad men. J. B. Eastman. Ry Age 112:1192-5 Je 20 '42
War duties. C. E. Johnston. Ry Age 113: 494-5 S 26 '42
War problems. C. E. Johnston. Ry Age 113: 688 O 31 '42
War transport, whose job is it? Ry Age 112: 308-9 Ja 31 '42
War work of the South African railway workshops. Engineer 173:367 My 1 '42
See also Railroads—Military use

RAILS
Conductive area of steel rails. J. L. Skeehan. Elec W 118:948-9 S 19 '42
Extend the life of rail and fastenings; Roadmasters and maintenance of way association committee report. Ry Age 113:526 O 3 '42
Heat treated rails widely used in Great Britain. C. J. Allen. il diags Metal Prog 41: 671-5+ My '42
Horse trades in steel rails in war time; rails are being swapped for franchise releases. J. H. Collins. Pub Util 29:745-9 Je 4 '42
Railroads heed the Nation's plea for rail and scrap. Ry Age 113:90-2+ Jl 18 '42
Reclaiming used rails on the Paulista railway, Brazil. Engineering 153:19-20 Ja 2 '42
Report of A.R.E.A. committee on rail. Ry Age 112:607-8 Mr 21 '42
Salvaging two thousand tons of street car rails for war needs. M. M. Smith. il Pub Works 73:11-13+ Ag '42
Senate probes rail seizures by WPB. Ry Age 113:572, 619-20 O 10-17 '42
Sulphur prints of wrought iron rails. il Metal Prog 42:238-9 Ag '42
Trestle deck is made of old rails. il Eng N 127:896 D 18 '41
With small furnace and curved form old rails are readily bent to form steel arches; abstract. H. Blake. diag Coal Age 46:87 D '41
See also
Railroads—Track
Street railroads—
Track

Failures

Eighth progress report of the investigation of fissures in railroad rails. H. F. Moore. il diag Ill U Eng Exp Sta Reprint Ser 22: 1-38 '42 (pa 15c)

Prices

Price schedule; relaying rail. Iron Age 149: 150+ Ja 1 '42

Stresses

Determining counter-balancing effects by rail-stress measurements. diags Engineering 154: 301-4, 341-4 O 16, 30 '42 (to be cont)
Polariscope; a new aid in rail-joint design. W. E. Gadd and H. L. Lansing. il Ry Age 112:157-9+ Ja 10 '42

Testing

Eighth progress report of the investigation of fissures in railroad rails. H. F. Moore. il diag Ill U Eng Exp Sta Reprint Ser 22: 1-38 '42 (pa 15c)
Oxyacetylene pressure welding of railroad rails. L. Adams. il Welding J 20:769-75 N '41
Temperature and manner of growth of shatter cracks in steel rails. H. B. Wishart, E. P. Epler and R. E. Cramer. bibliog il Am Soc for Metals Trans 30:592-601; Discussion. 601-6 S '42

RAILWAY age (periodical)
What America thinks of freight service in war-time. Ry Age 113:168-72 Ag 1 '42

RAILWAY express agency
Express rates must rise with labor costs; hearing before Interstate commerce commission at St Louis, Mo. Ry Age 112:212 Ja 17 '42

Employees

Emergency board in express dispute. Ry Age 111:803-4 N 15 '41
Wage case finally concluded. Ry Age 111: 1001 D 13 '41

RAILWAY fuel and traveling engineers' association
Officers and reports. pors Ry Mech Eng 116: 479-94 N '42

RAILWAY tie association
Annual meeting, 24th, Cincinnati, May 6-7. Ry Age 112:943-7 My 16 '42

RAIN and rainfall
Analysis of rainfall in the Sonoran desert and adjacent territory. W. V. Turnage and T. D. Mallery. 45p bibliog(p28-9) pa 35c Carnegie institution of Washington, Washington, D.C. '41

Maps of seasonal precipitation percentage of normal by states, fifty-three years, 1886-1938; tables of normals and 10 wettest and 10 driest seasons and years. 76p U.S. Weather bur, Washington; pa 15c Supt. of doc. '42

Neglected items in storm sewer design. J. Wilson. Eng N 129:310-11 Ag 27 '42

Report of the Boston society of civil engineers' committee on floods; storm rainfall. bibliog maps Boston Soc C E J 29:27-57 sec 2 Ja '42
See also
Floods
Run-off

RAIN and rainfall—*Continued*

Statistics

High-intensity rainfall at Larchmont. A. Richards. Eng N 129:439 S 24 '42

Rapid method of correlation for continuous time series; tests on rainfall-tree growth data. W. S. Glock. Am J Sci 240:437-42 Je '42

Tables, calculations, etc.

Reliability of station-year rainfall-frequency determinations. K. Clarke-Hafstad. bibliog maps Am Soc C E Proc 66:1603-22 N '40; Discussion. 67:129-32, 255-9, 474-82, 665-6, 887-90, 1113-18; 68:145-51 Ja-Je '41, Ja '42

Surface runoff determination from rainfall without using coefficients. W. W. Horner and S. W. Jens. diags Am Soc C E Proc 67:533-68 Ap '41; Discussion. 67:1180-2, 1469-89, 1925-32; 68:280-4 Je, O, D '41, F '42

Middle western states

Mid-west dust bowl vanishes in rain. map Eng N 129:615 N 5 '42

Peru

Humboldt current in 1941. E. G. Mears. Science 95:433-4 Ap 24 '42

RAINBOW bridge. See Niagara Falls, New York—Bridges

RAINCOATS

Dyeing raincoat material. Textile Col 64:202+ Ap '42

New coated finish; vinyl acetal plastic in place of rubber to waterproof army fabrics. il Textile World 92:88-9 S '42

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942. Am Dyestuff Rep 31:402-3 Ag 17 '42

Right for rain. il Mod Plastics 19:40-3+ Jl '42

RAINPROOFING. See Waterproofing of textiles

RAISINS

Exports of Chilean raisins, 1936-1941. For Comm W 7:21 Ap 25 '42

Iran's raisin exports. For Comm W 7:22 Ap 18 '42

Processed raisins; summary of grade standards. Food Ind 14:109-10 O '42

Spanish Muscatel raisin crop. For Comm W 5:28 D 13 '41

RAMALEY, Francis, 1870-1942

Sketch. G. Alexander. Science 96:102-3 Jl 31 '42

RAMAN, Sir Chandrasekhara Venkata, 1888-

Election of honorary members of the Optical society of America. W. F. Meggers. por Opt Soc Am J 31:510-11 Jl '41; Same cond. Sci Am 167:13 Jl '42

RAMAN effect

Association effects in the Raman spectra of solutions of thiophenol in donor solvents. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 64:1230-1 My '42

Effect of silver ion coördination upon the Raman spectra of some unsaturated compounds. H. J. Taufen, M. J. Murray and F. F. Cleveland. bibliog Am Chem Soc J 63:3500-3 D '41

Infra-red and Raman spectra of polyatomic molecules; diborane. F. Stitt. bibliog J Chem Phys 9:780-5 N '41

Photoelectric detection and intensity measurement in Raman spectra. D. H. Rank, R. J. Pfister and P. D. Coleman. il diag Opt Soc Am J 32:390-6 Jl '42

Polarization measurements of Raman lines. G. Glockler and H. T. Baker. J Chem Phys 10:404 Je '42

Qualitative and quantitative analysis of hydrocarbon mixtures by means of their Raman spectra. D. H. Rank, R. W. Scott and M. R. Fenske. bibliog il Ind & Eng Chem Anal ed 14:816-19 O 15 '42

Raman spectra evidence for hindrance of resonance by ortho substitution. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 63:3121-3 N '41

Raman spectra of acetylenes; 1-butyne, 1-pentyne, 1-hexyne, 3-hexyne, 4-octyne and 1-chloro-1-heptyne. F. F. Cleveland, M. J. Murray and H. J. Taufen. bibliog J Chem Phys 10:172-6 Mr '42

Raman spectra of compounds in the gaseous and liquid states. J. R. Nielsen and N. E. Ward. bibliog diags J Chem Phys 10:81-7 F '42

Raman spectra of dialkyl ketones. F. F. Cleveland and others. J Chem Phys 10:18-21 Ja '42

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

Raman spectra of the sugars in the solid state and in solution; the Raman spectra of α- and β-*d*-glucose. F. H. Spedding and R. F. Stamm. bibliog il J Chem Phys 10:176-83 Mr '42

Vibrational spectra of pyrrole and some of its deuterium derivatives. R. C. Lord, jr. and F. A. Miller. bibliog J Chem Phys 10:328-41 Je '42

RAMAZZINI, Bernardino, 1633-1714

Background of industrial medicine; Bernardino Ramazzini's De morbis artificum. L. Vaccaro. Nat Safety N 45:34, 36+ My '42

RAMIE

Industrial uses of chemicals; ramie fiber. Oil Paint & Drug Rep 140:7 N 24 '41

Present situation in ramie fiber. A. C. Whitford. il Rayon 23:459-61 Ag '42

Ramie. F. E. Kunkel. Textile Col 64:295 Je '42

Ramie and the South. A. C. Whitford. il Manuf Rec 111:27-9+ My '42

What you can use; desizing agents for ramie, etc. Oil Paint & Drug Rep 141:60 F 16 '42

RAMIX

Furnace lining that is rammed into place. diags Comp Air M 47:6692 Mr '42

Magnesitic ramming mixtures, Ramix and Ramix 82, in basic electric and basic open hearth furnaces; abstract. H. N. Barrett, jr. Iron Age 149:49-50 Ap 23 '42

Modern hearth refractory practice; Ramix and Ramix 82. H. N. Barrett, jr. il diags Blast F & Steel Pl 29:1218-20 D '41; Same. Steel 110:80, 82, 84 Mr 23 '42

RAMMED earth. See Pisé

RAMPS

Safety measures

Safe ramps for coal-handling walkways. W. E. Rossnagel. diags Power 86:57-9 Ja '42

Stairways and ramps; safe passageways between floor levels. il Nat Safety N 45:105+ Mr '42

RANCIDITY

Fat changes in storage; abstract. A. A. Girshman. Soap & San Chem 18:56 S '42

Methods for investigating rancidity; abstract. W. H. White. Food Ind 13:99-100 D '41

Methods for the investigation of rancidity; their interrelation and application to bacon fat; abstract. W. H. White. Food Ind 14:106-7 S '42

Stabilization of fats. H. S. Mitchell and H. C. Black. Oil Paint & Drug Rep 142:65 S 21 '42

Sweetness of fat. J Chem Educ 19:180 Ap '42

RANGE finding

Elementary mathematics in artillery fire. J. M. Thomas. 256p $2.50 McGraw-Hill '42

RANGES

Problems of range land tenure. C. W. Loomer. J Land & Pub Util Econ 18:214-17 My '42

See also

Partido system

RANNEY water collectors

Ranney system of underground-water collection. il diags Engineering 152:461-3 D 12 '41

Ranney water collector systems. J. F. Rhoades. diags Paper Tr J 114:123-4, 126, 128 F 19 '42; Abstract. Pulp & Pa of Can 43:312 Mr '42

RANNEY water collectors—*Continued*

Water for the South's powder plants; radial well developed by the Ranney water collector corporation. il diags Manuf Rec 111:32-3 Je '42

RAOULT'S law

Cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1192-9 O '42

RAPESEED oil

Rapeseed oil uses to be restricted. Oil Paint & Drug Rep 141:4+ Mr 30 '42

What you can use; guide to materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:67 My 18 '42

RAPID transit

American transit moves the masses. C. Gordon. Pub Util 30:98-100 Jl 16 '42

Burdened transit. Business Week p87-9 My 23 '42

Deluge of riding; effect of automobile and tire shortage, increased employment, etc, on traffic. C. Gordon. Bus Transportation 21:112-16 Mr '42

How mass transportation is conducted in Louisville. il Mass Transportation 38:34-42 F '42

How mass transportation is conducted in Memphis. M. A. Jarrow. il Mass Transportation 38:278-84 O '42

Municipal transportation problems. Eng N 128:484 Mr 26 '42

Outlook for buses and trolleys improved. L. Edwards. il Barron's 22:9 F 16 '42

Prayer for rain answered by a deluge; transit conditions in Canada. I. S. Fairty. il Transit J 86:203-5 Je '42

Public transit business up 26.28%, but private car carries burden. Nat Pet N 34:34 Jl 29 '42

See also

Electric railroads
Motor bus lines
Railroads
Street railroads
Subways
Trolley buses

also subdivision Rapid transit under names of cities, e.g. New York (city)—Rapid transit; Washington, D.C.—Rapid transit

Finance

Indexes of transit fares, wages and costs, 1913-1941; tabulation. Transit J 86:15 Ja '42

Public transit benefits from the ban on private tires; with chart showing revenue, monthly, 1941-42. Business Week p24 F 7 '42

Statistics

Toward the twenty billion mark. C. Gordon. Transit J 86:366-9 O '42

Transit progress in 1941; statistics; revenue, costs, rolling stock, etc. Transit J 86:9-27 Ja '42

Transit riding soars. il map Transit J 86:196-9 Je '42

Transit rise to 20 billion fares reflects markets' rapid growth. Sales Management 51:36+ N 1 '42

RAPID transit in war

Air raid precautions for transit. J. A. Miller. il Transit J 86:5-8, 64-7 Ja-F '42

American transit association war emergency conference, Chicago, Feb. 4-6; with abstracts of papers. Transit J 86:41-56 F '42; Bus Transportation 21:98A-98D F '42; Mass Transportation 38:45-53 F '42

Blackout strategy. R. D. Voshall. il Bus Transportation 21:126-9 Mr '42

Canadian control methods outlined. G. S. Gray. Transit J 86:373-4 O '42

Canadian wartime problems; Canadian transit association 38th annual meeting, Toronto, June 15-16. Bus Transportation 21:313-15 Jl '42

City operations; work of O.D.T. Division of local transport; abstracts. G. A. Richardson. Bus Transportation 21:453-5 O '42; Transit J 86:371-2 O '42

Conserving vital war transportation in Chicago metropolitan area. P. Harrington. il Mass Transportation 38:237-9 S '42

Emergency organization of wartime transit; Toronto transportation commission. J. F. Neild. Transit J 86:57-9 F '42

Full cooperation with the ODT urged. M. R. Boylan. Mass Transportation 38:240+ S '42

How British transport men react to blitzes and war conditions. Mass Transportation 38:10-12 Ja '42

How Los Angeles tackled the war-worker transit problem. L. S. Flint. il Bus Transportation 21:302-5 Jl '42

It's time to talk about your cars in the barn. J. H. Collins. Pub Util 30:487-94 O 8 '42

Meeting war demands in Baltimore. il Transit J 86:232-5 Jl '42

Mobilizing transit for the war effort; war emergency conference, Chicago, Feb. 4-6; with abstracts of papers. il Transit J 86:41-56 F '42

ODT issues war operating code. Transit J 86:184 My '42

ODT sets up a 12-point transit plan. Bus Transportation 21:204-5+ My '42

ODT takes over transit regulation. Pub Util 29:567-70 Ap 23 '42

ODT's program for local transport. G. A. Richardson. il Transit J 86:305-8 S '42

ODT's transit set-up. Transit J 86:124-6 Ap '42

Our contribution to victory. M. R. Boylan. il Transit J 86:312-14 S '42

Our duty is to provide transportation. M. R. Boylan. Transit J 86:360 O '42

Ray maps show defense transit needs; Oakland, California. C. Robertson. il Transit J 86:168-70 My '42

Transit association ponders the war movement of masses. Pub Util 30:505-9 O 8 '42

Transit; the war worker's transportation. il Transit J 86:1-4 Ja '42

Transport of war workers. Economist 141:731-2 D 13 '41

War alters situation and creates new transit problems; 61st annual meeting of American transit association. Mass Transportation 38:285-95 O '42; Bus Transportation 21:446-53 O '42

War emergency strains city transit. Pub Util 29:375-9 Mr 12 '42

WPB's transit set-up. Transit J 86:160-2 My '42

Wartime transit problems in Baltimore, Philadelphia, Montreal, San Diego, Chicago. B. Hill and others. Mass Transportation 38:226-37 S '42

See also

Motor bus lines in war

RAPPLEYE, Willard Cole, 1892-

Resignation as commissioner of the Department of hospitals of the city of New York. Science 94:555-6 D 12 '41

RARE earth metals

Rare-earth metal amalgams; the reaction between sodium amalgam and rare-earth acetate and chloride solutions. J. K. Marsh. Chem Soc J p398-401 Je '42

Rare-earth metal amalgams; the separation of neodymium, samarium, and gadolinium. J. K. Marsh. Chem Soc J p523-6 Ag '42

Rare earths. Can Chem & Process Ind 25:581 N '41

See also

Cerium
Dysprosium
Europium
Neodymium
Praseodymium
Samarium
Scandium
Ytterbium

Analysis

Analysis of minerals & ores of the rarer elements. W. R. Schoeller and A. R. Powell. 2d ed rev 308p $7.50 Lippincott '41

Europium and ytterbium in rare earth mixtures; polarographic determination. H. A. Laitinen and W. A. Taebel. Ind & Eng Chem Anal ed 13:825-9 N 15 '41

RARE earth metals—Analysis—*Continued*
Spectrophotometric determination of dysprosium, holmium, erbium, thulium, and ytterbium. C. J. Rodden. J Research Nat Bur Stand 28:265-77 Mr '42

RARE earth oxides. See Rare earths

RARE earths
Electrolysis of rare earth acetates and the separation of europium as amalgam from other rare earths. H. N. McCoy. bibliog Am Chem Soc J 63:3432-3 D '41
Element 61; brief appearance as a result of experiments by Dr Emilio Segre and Dr Chien Shiung-Wu. Science 95:sup8 Ja 16 '42; Same abr. Sci Am 166:170 Ap '42
Rare earths. N. J. Kreidl. bibliog Am Cer Soc J 25:141-3 Mr 1 '42
Some uses for rare earths; widening scope in the glass industry. Chem Age (Lond) 45:235 N 1 '41

RARE gases. See Gases, Rare

RASCHIG rings
Flooding velocities in packed towers; comparison of determination by visual and pressure drop methods. B. R. Sarchet. bibliog il diag Am Inst Chem Eng Trans 38:283-301; Discussion. 301-4 Ap '42
Performance of drip-point grid tower packings. M. C. Molstad and others. il diag Am Inst Chem Eng Trans 38:387-434 bibliog(p409, 434) Ap '42

RATH packing company
Annual report. Comm & Fin Chr 154:1702-3 D 27 '41
Growth stocks and the investor. E. N. Chapman. Barron's 22:13 Ja 26 '42

RATION banking. See Banks and banking—Ration coupon handling

RATION coupon handling. See Banks and banking—Ration coupon handling

RATIONALIZATION
See also
Economic planning
Efficiency, Industrial

RATIONING
All-purpose ration books. Comm & Fin Chr 156:1186 O 1 '42
America's food problem recast. il Business Week p15-16 O 31 '42
Banks to test ration coupon handling. Barron's 22:12 O 5 '42
Broad rationing plan ready. Business Week p15-16 My 9 '42
Consumer rationing; diverse effects on industry and trade. J. D. C. Weldon. Mag of Wall St 69:529-31+ F 21 '42
Coupon age; equalisation of standard of living can be achieved by coupons. Economist 142:744 My 30 '42
Future role of rationing. Barron's 22:11 N 2 '42
Household ration. Economist 143:476-7 O 17 '42
John Bull's rations. Business Week p34, 39-41+ Ja 31 '42
Point rationing. E. M. H. Lloyd. R Econ Statis 24:49-52 My '42
Points rationing. Economist 143:265 Ag 29 '42
Political economy of consumers' rationing. T. de Scitovszky. R Econ Statis 24:114-24 Ag '42
Proposed scheme of fuel rationing; abstract of the Beveridge report. Gas J (Lond) 238:206, 209 My 6 '42; Electrician 128:412-13 My 1 42; Elec R (Lond) 130:566-7 My 1 '42; Discussion 130:588, 621-2 My 8-15 '42
Ration banking. Trusts & Estates 75:336-7 O '42
Ration card banking; Britain's coupon banking. F. B. Makin. Banking 35:22-3+ Jl '42
Rationed scarcity or abundant production? F. J. Schlink. Consumers' Research Bul 9:2+ My '42
Rationing consumer expenditure. S. Weintraub. Harvard Business R 21 no 1:109-14 [S] '42
Rationing in wartime. J. Backman. J Retailing 17:98-105 D '41; Excerpts. Trusts & Estates 74:140-1 F '42
Rationing no easy problem for OPA officials. Steel 111:36-7 O 26 '42
Rationing of consumer goods. V. Abramson and C. F. Phillips. J Business 15:1-20 Ja '42
Rationing; OPA will test use of banks to handle ration paper and issue checks on it. Bankers M 145:340 O '42
Rationing; why and how. 14p Office of price administration, Washington, D.C. '42
Rations and manpower. Economist 142:751 My 30 '42
Road to rationing; results of price and wage control as shown by French experience. R. Picard. Trusts & Estates 74:351-5 Ap '42
To test ration-bank plan in Albany area. Comm & Fin Chr 156:1172 O 1 '42
U.S. may follow British banks on coupon banking. H. D. Ralph. Burroughs Clearing House 27:19-21 O '42
Wartime rationing and consumption. 87p pa $1 Columbia univ. press '42
Waste in rationing. Trusts & Estates 74:449 My '42
What rationing means to all. J. Hirsch. Barron's 22:3 Mr 23 '42
See also
Advertising copy—Conservation appeal
Banks and banking—Ration coupon handling
Priorities and allocations, Industrial
World war, 1939—Commodity control
also subdivision Rationing under names of products, e.g.
Automobiles
Clothing and dress
Coffee
Fuel
Gasoline
Motor trucks
Oil fuel
Sugar
Tires, Automobile

RATIOS, Financial. See Financial ratios

RATS
How to build out rats with concrete floors, foundations and walls. diags Am Bld 64:60 Ag '42
Quantitative relationship of riboflavin to cataract formation in rats. H. M. Baum, J. F. Michaeiree and E. B. Brown. Science 95:24-5 Ja 2 '42
Susceptibility of the eastern cotton rat, Sigmodon hispidus hispidus, to European typhus. J. C. Snyder and C. R. Anderson. Science 95:23 Ja 2 '42

Extermination

Electricity in vermin control. E. Hardy. Electrician 128:99 F 6 '42
Rat control. J. Silver and F. E. Garlough. (Conservation bul. 8) 27p U.S. Fish and wildlife service; pa 10c Supt. of doc. '41

RATTLESNAKE venom. See Venom

RAUSCHENBUSCH, Walter, 1861-1918
Walter Rauschenbusch. D. R. Sharpe. 463p $2.75 Macmillan '42

RAW materials
America turns "pro"; survey of raw materials for guns, tanks and battleships. H. F. Lee. Barron's 22:3-4 Ja 19 '42
America turns "pro"; the raw materials of shells, bombs and explosives. H. F. Lee. Barron's 22:3-4 F 9 '42
American industry at war; battle of production giving way to battle for raw materials and supplies. Barron's 22:8-9 Ag 3 '42
Army develops methods of conserving strategic raw materials. Heating-Piping 14:287-8 My '42
Battle of raw materials; ersatz, the guest that came to stay. W. J. Casey. Trusts & Estates 74:13-17 Ja '42
Brazil, arsenal of strategic materials. il map For Comm W 6:6-11+ F 21 '42
Critical materials and the war with Japan; British Malaya and Dutch East Indies are sources of rubber, tin, tungsten, tung oil and manganese. Automotive Ind 85:43 D 15 '41
Critical materials listed by conservation unit. Oil Paint & Drug Rep 141:5+ Ap 27 '42
Defense materials supply and controls, 1941. Oil Paint & Drug Rep 141:36 Ja 12 '42

RAW materials—*Continued*

Direct rationing to replace priority system due to shortage of raw materials. E. Blair. Barron's 22:4 Je 8 '42

Effect on U.S. economy, as world supplies of basic materials change hands. V. L. Horoth. il Mag of Wall St 70:632-4+ O 3 '42

Effects of a two-ocean war. Barron's 21:6 D 15 '41

Far Eastern commodities. Economist 141:732 D 13 '41

Far Eastern shipments curtailed by war in Pacific. Oil Paint & Drug Rep 140:3+ D 15 '41

Feeding our war factories; strategic and critical materials. map Barron's 21:6 D 22; 6 D 29 '41

How self-sufficient is the United States? what we must import in sizable amounts and what we have to import entirely; chart. Barron's 21:1 D 29 '41

How use of scarce materials affected civilian goods in 1941. W. Hayes. il Dun's R 50: 10-12+ My '42

How war makes have-nots. Barron's 22:6 Ap 27 '42

If war reaches Pacific; how we stand with regard to import commodities. Barron's 21:6 N 17 '41

Imports of important raw materials increased 200 percent last year. Marine Eng 47:140 Mr '42

Industrial production, 1941. Survey of Cur Business 22:20-4 F '42

International trade in raw materials. J. G. Smith. Engineer 174:180 Ag 28 '42

Italy's raw-material problems. For Comm W 6:3-5 Ja 3 '42

Japan's follow-up; Tokio's armies pursue lines marked by its business men. Business Week p32+ Ja 17 '42

Kaiser plan is really a call for a new raw-material program. E. Janeway. Fortune 26: 184+ S '42

Latin America as a source of strategic and other essential materials. 397p U.S. Tariff commission, Washington; 50c Supt. of doc. '41

League of nations and raw materials, 1919-1939. K. W. Kapp. 64p pa 40c Columbia univ. press '41

Let's look at substitutes. il Factory Management 100:73-5+ F '42

Looking south for supplies. Barron's 22:6 Mr 9 '42

Materials, and their scarcity ratings. Business Week p24 My 2; 43 S 5 '42

Materials in scarce supply listed in related groups. Chem & Met Eng 49:160 My '42

Materials procurement and control; priorities, conservation, inventory control. A. I. Henderson and others. 40p Am. management assn, New York '41

Materials substitutes fourth report issued. Oil Paint & Drug Rep 142:3+ Jl 13 '42; Same. Manuf Rec 111:22-3+ Jl '42

Materials supply surveyed by WPB. Oil Paint & Drug Rep 141:7+ Mr 16 '42; Same. Mech Eng 64:391 My '42

Metals, chemicals and other materials getting scarcer. Manuf Rec 111:32-3+ S '42

Natural raw materials; slackening of demand. Chem Ind 51:110, 112 Jl '42

New WPB warrant plan under consideration to insure even flow of materials. E. Blair. Barron's 22:4 Ag 10 '42

New War scheduling board proposed in General Motors' warrant plan for production control. Iron Age 150:72+ Ag 27 '42

1942, the year to win or lose; report to executives. il maps Business Week p33-44, 46 Mr 14 '42

Pinch of shortages starting to affect military output as well as civilian life. E. Blair. Barron's 22:4 Je 1 '42

Positions of Far East products. Barron's 22: 6 F 16 '42

Production and consumption in 1941. il Steel 110:269, 367 Ja 5 '42

Prosperity returns to Latin America; what we get from our good neighbors. F. M. Stern. map Barron's 21:3 N 24 '41

Raw materials and inter-American solidarity. A. R. Upgren. For Comm W 8:6-7+ Jl 4 '42

Raw materials for chemical industry. Chem & Ind 61:382 S 12 '42

Raw materials for defense. Chem & Met Eng 48:94-6 N '41

Raw materials, 1941. Economist 142:sup20, 22, 24 Mr 14 '42

Revolution in raw materials. L. Stern. il Mag of Wall St 70:489-92, 513-14 Ag 22 '42

Shortages curb war output. Business Week p15-16 Ag 8 '42

Six-pronged drive for raw materials launched. Barron's 22:6 Jl 6 '42

Strategic materials from the Far East; conservation measures. Nat City Bank p3-4 Ja '42

Strategic materials import order revised. Oil Paint & Drug Rep 141:5+ Ap 13 '42

Strategic materials in hemisphere defense. M. S. Hessel, W. J. Murphy and F. A. Hessel. 235p bibliog(p225-35) $2.50 Hastings house, 67 W. 44th st, New York '42

Strategic resources mobilization planned. Oil Paint & Drug Rep 141:3+ Mr 2 '42

Substitute materials. G. S. Brady. Oil Paint & Drug Rep 140:7+ D 1 '41

Substitute materials in a war economy. G. S. Brady. Paper Tr J 113:33-6 N 13 '41

Substitute materials report issued by WPB. Oil Paint & Drug Rep 141:5+ Je 8 '42

There's no limit to material prosperity; address at National foreign trade convention. S. Welles. For Comm W 9:3+ O 17 '42

Those raw materials; an introduction to the study of raw materials. C. A. Ward. 392p bibliog(p357-65) 15s G. Allen & Unwin, London '41

Treasure hunt in Latin America. F. M. Stern. Bankers M 145:285-90 O '42

Trials and errors; a shortage of materials is blocking the President's program. E. Janeway. Fortune 25:204-8 Je '42

Vast stake in Pacific; sea lanes are roads to vital materials. For Comm W 5:6 D 27 '41

War against waste. 26p U.S. Office of emergency management, Division of information, Washington '41

WPB inventory unit files over-all report. Oil Paint & Drug Rep 141:4+ Ap 13 '42

WPB reports on scarcity of materials. Chem & Eng N 20:375, 607, 798-9, 1232-3 Mr 25, My 10, Je 25, O 10 '42

War's effects on commodity markets. Barron's 22:6 Ja 5 '42

What complete import control will mean. Barron's 22:6 Je 15 '42

World production of raw materials. 69p pa 85c Oxford '41

World resources and peace; lectures. 151p $1.50; pa $1 Univ. of California press, Berkeley '41

See also

Cellulose
Chemicals
Chromium
Coal
Cotton
Farm produce
Metals
Metals, Non-ferrous
Mineral industries
Mines and mineral resources
Oils and fats
Petroleum
Priorities and allocations, Industrial
Rubber
Textile fibers
Wood

also Los Angeles—Surplus materials exchange

Prices

Commodities under price ceilings; chart. Barron's 22:6 Ja 19 '42

Commodity futures prices; spot commodity prices. Published in weekly numbers of Barron's

RAWN, A. M. 1888-

Sketch. por Civil Eng 11:737 D '41

RAYBESTOS-MANHATTAN, inc.

Capital stock priced below net quick assets. H. Lawrence. Barron's 22:5 Jl 13 '42

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:21 O 17 '42

RAYMOND, Antonin, 1889-

Portfolio of recent work. por Arch Forum 75:341-52 N '41

RAYOLANDA

Dyeing of a new fibre. H. A. Thomas. bibliog Chem & Ind 61:331-4 Ag 1 '42

Scope of Rayolanda X as a supplementary fibre; admixture with Fibro and wool. H. A. Thomas. bibliog Soc Dyers & Col J 58:197-202; Discussion. 202-3 O '42

RAYON

Cupra rayon. T. Johnson. Rayon 23:478 Ag '42

Developments in organic non-cellulosic fibrous materials. E. C. Worden, 2d. bibliog Rayon 22:663-4 N '41

ELWI rayon paste for use on hosiery machines. il Rayon 23:476 Ag '42

Facts about your new rayon stockings. Textile Col 64:323 Jl '42

Glycerine in newer textile developments. G. Leffingwell and M. A. Lesser. bibliog Rayon 23:550-1 S '42

New nylon problems created by rayon welts. V. A. Schiffer. Rayon 22:668-9 N '41

Rayon and synthetic fibres. H. L. Johnson. Textile Inst J 33:P54-60 My '42

Rayon developments in 1941. W. C. Appleton. Rayon 23:2-4 Ja '42

Rayon hosiery is here to stay. il Textile World 92:74-5 Jl '42

Rayon to the rescue. I. Blunt. Rayon 23:136-7 Mr '42

Rayon's role in the wartime economy. F. Bonnet. il Manuf Rec 111:22-3+ My '42; Same. Textile Col 64:290+ Je '42

Rayons to gain greater acceptance. il Rayon 23:7-8 Ja '42

Silk's hosiery role ended Jan. 1; amount of rayon needed to equal pound of silk. E. Constantine. Textile World 92:69 Ja '42

Straw as a raw material for making paper and rayon pulps; abstract. G. Jayme. Chem & Met Eng 49:168 Ag '42

Swelling of cellulose acetate in aqueous phenol solutions. R. J. B. Marsden and A. R. Urquhart. bibliog il diag Textile Inst J 33:T105-36 Jl '42; Abstract. Textile Col 64:473-4+ O '42

Use of rayon in U.S. defense effort. Textile Col 64:85 F '42

What are the reasons for this success of rayon? E. S. Kennedy. Rayon 23:503-5 S '42

What you can use; materials suitable for various purposes in processing. Oil Paint & Drug Rep 141:34 Ja 19; 58 Ja 26; 51 F 9; 60 F 16; 63 F 23; 43 Mr 16; 52 Mr 30; 62 Ap 20; 44 Ap 27 '42

See also

Cellulose

Cellulose acetate

Dyes and dyeing—Rayon

Rayon fibers

Viscose

Delustering

Delustering acetate rayon. A. J. Hall. Textile Col 64:381+ Ag '42

Dyeing

See Dyes and dyeing—Rayon

Fabrics

See Rayon fabrics

Finishing

See Rayon finishing

Knit goods

Advice to full-fashioned knitters; possibilities of substitute yarns. M. C. Miller. il diags Textile World 92:90-1+ Ap; 78-80 My; 83-4 Je '42

Excerpts from the Rayon and cotton hosiery handbook. il Rayon 23:203-4 Ap '42

Handling of nylon and union hosiery. H. H. Mosher. il Rayon 22:723-6; 23:35-7, 105-8 D '41-F '42

Improving seamless hose. il Textile World 92:111-12 S '42

In knitting rayon hosiery; manufacturers must pay heed to properties of yarns. Textile World 91:66-7 D '41

Knitting full-fashioned. W. T. Leggis. il Textile World 92:110-11 S '42

Knitting the new hosiery; handling cotton and rayon on full-fashioned machines. W. A. Simond. il diags Textile World 92:86-7 O '42

Modern rayon warp knitted fabrics. W. Davis. il Rayon 23:207-8 Ap '42

More about making rayon hosiery. E. M. Schenke. il Rayon 23:201-2 Ap '42

National assn. of hosiery manufacturers research recommends on rayon hosiery constructions. Rayon 22:712-13 D '41

New rayon hosiery yarn table. H. R. Mauersberger. Rayon 23:598 O '42

Rayon hose no. 1 job is education. J. Black. il Textile World 92:80-1 S '42

Rayon hosiery testing. F. T. Mosedale. il Rayon 23:214-15 Ap '42

Report of the research committee of the National assn. of hosiery mfrs. Rayon 23:345 Je '42

Review of present hosiery products. N. Gowdy. il Rayon 23:188-91 Ap '42

Synthetic fibers in the knitting field; discussion sponsored by the Am. assoc. of textile technologists. Rayon 23:477-8, 535-7 Ag-S '42

Technical panel discussion on rayon hosiery. E. M. Schenke, E. N. Ditton and E. L. Lauber. Rayon 23:99-100 F '42

Transition from silk to rayon hosiery. E. Constantine. Rayon 23:186-7 Ap '42

Use of Avconit no. 1 in manufacturing rayon hosiery. E. L. Lauber. Rayon 23:348-9 Je '42; Same. Textile Col 64:391+ Ag '42

Use of Bemberg in rayon hosiery. T. Johnson. Rayon 23:346-8 Je '42

Why use high twist in rayon hosiery? J. A. Van Laer. Rayon 22:727-8 D '41

Moisture absorption

Behavior of rayon towards moisture and dyes. Textile Col 64:504 O '42

Patents

Acetate rayon having wool dyeing properties. A. J. Hall. Textile Col 64:65 F '42

New Celanese patents. Rayon 23:438 Jl '42

Patent reports. Published in monthly numbers of Rayon textile monthly

Production of patterned etching effects on rayon materials, E.P. 537,519. A. J. Hall. Textile Col 63:613 N '41

Strengthened rayon fibers. A. J. Hall. Textile Col 64:13-14 Ja '42

Prices

New rayon grey goods ceiling prices effective April 21, 1942; with text of order. Rayon 23:265-71 My '42

OPA places ceilings on filament and staple rayon yarns as of June 22nd, 1942; with text of order. Rayon 23:405-15 Jl '42

Rayon filament yarn, wholesale price, viscose, 150 denier, first quality; new series; monthly, Jan. 1913-Sept. 1941. Survey of Cur Business 21:22 N '41

Strength

Throwster serves the silk hosiery industry without silk. G. A. Urlaub. Am Dyestuff Rep 30:708-9+ D 22 '41

Testing

Rayon hosiery testing. Textile Col 64:365 Jl '42

RAYON drying

Use of infrared-ray gas burners in the textile industry. J. A. Fulton. il Rayon 23:344 Je '42

RAYON fabrics

Bedspread and cushion cover fabrics; practical considerations in dyeing and finishing mixed viscose and acetate rayon textures. Textile Col 64:179-81 Ap '42

British standard utility cloths. J. G. Oliver. il Textile World 92:65 Ag '42

Cotton vs. rayon; rumpus in Senate over tire cord for army. Business Week p19-20 O 31 '42

Crepe fabric processing. Textile Col 64:259-60 My '42

RAYON fabrics—*Continued*

Defects in finished fabrics; definitions and causes of faults which occur in dyeing and finishing processes. B. S. Hillman. il Textile World 92:78 Jl '42

Fabrics for civilian use; blends command dominant position. il Textile World 92:104-5 S '42

Fabrics for military purposes; banner silk substitute. Textile World 92:68 My '42

Fabrics for military purposes; cotton and acetate rayon fabrics for sleeping-bags. il Textile World 92:68 My '42

Fabrics for military purposes; rayon, nylon and other synthetics. il Textile World 92:102-3 S '42

Factors influencing rough cloth. H. E. Wenrich. il Rayon 23:394-5, 469-70, 529-30, 613-14, 664-5, 721-2 Jl-D '42

Handling rayon in the mill; making blended yarns, throwing, knitting, and finishing. R. A. Smith and others. il Textile World 92:106-12 S '42

New rayon grey goods ceiling prices effective April 21, 1942; with text of order. Rayon 23:265-71 My '42

Pin holes in acetate umbrella goods. Rayon 23:302 My '42

Preparing, dyeing and finishing of rayon crêpe fabrics. C. P. Atkinson. il Soc Dyers & Col J 58:89-93 My '42; Abstract. Textile Col 64:380-1 Ag '42

Prevention of filling bands. A. C. Wayman. il Textile World 91:76-7 D '41

Production of patterned etching effects on rayon materials, E.P. 537,519. A. J. Hall. Textile Col 63:613 N '41

Rayon in tires for military use, conserves rubber; Cordura. Sci Am 167:124-5 S '42

Rayon's role in the wartime economy. F. Bonnet. il Rayon 23:252-3 My '42

Recommended commercial standard for cotton and rayon velvet. Rayon 23:134-5 Mr '42

Specification of rayon fabrics to be included in the schedule of utility cloths under the limitation of supply (C & A) orders. W. A. Dickie. Textile Inst J 33:P85-7 Je '42

Spun rayon dress fabrics; dyeing of staple acetate mixtures, rayon-wool and cotton-rayon fabrics. B. S. Hillman. Textile Col 64:277-80 Je '42

Spun rayon summer suits popular this season. il Rayon 23:462-3 Ag '42

Technology of fabric analysis. il Rayon 22:538-40; 23:158-9 S '41, Mr '42

Varied weaves of Du Pont rayon answer wartime consumer needs. Rayon 23:465 Ag '42

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

Waterproofing of acetate rayon materials. A. J. Hall. Textile Col 64:275-6 Je '42

See also
Rayon weaving

Cotton-linen mixtures

Serviceability of a dish towel fabric; rayon-cotton-linen mixture. M. B. Hays and R. E. Rogers. bibliog Rayon 23:289-90 My '42

Cotton mixtures

New Tackle twill featured. Rayon 23:222-3 Ap '42

Physical properties of cotton, linen and rayon-mixed fabrics with all-linen and all-rayon fabrics. H. M. Fletcher, M. G. Shelden and C. E. Zink. Rayon 22:735-7; 23:29-30 D '41-Ja '42

Seersucker and its variations. J. Hoye. il Textile World 92:84-5 O '42

Spun rayon and cotton blends. P. Sillan. il Rayon 23:464-5 Ag '42; Same cond. Textile World 92:118 Ag '42

Creasing

Study of the crease-resistance of viscose rayon. P. C. Scherer and N. Sugarman. bibliog Rayon 23:391-2, 467-8 Jl-Ag '42

Knit fabrics

See Rayon—Knit goods

Linen mixtures

Physical properties of cotton, linen and rayon-mixed fabrics with all-linen and all-rayon fabrics. H. M. Fletcher, M. G. Shelden and C. E. Zink. Rayon 22:735-7; 23:29-30 D '41-Ja '42

Shrinkage

Finishing of cotton and rayon fabrics so that they do not shrink. A. J. Hall. Textile Col 64:379-80 Ag '42

Rayon piece goods shrinkage table. H. R. Mauersberger. Rayon 23:160 Mr '42

Sanforizing as applied to rayons and unstable fabrics. H. D. Clayton. Am Dyestuff Rep 31:137; Discussion. 140-3 Mr 16 '42

Shrink-proofing fabrics with formaldehyde. Textile Col 63:701-2 D '41

Shrinkage testing of woven rayon fabrics. O. F. Marks. Am Dyestuff Rep 31:138-9; Discussion. 140-3 Mr 16 '42

Some of the whys and hows of shrinkage control. J. D. Chaky. Rayon 22:681-2 N '41

Testing

Changes in crown tested plan; new minimum requirements are established for rayon fabrics. il Rayon 23:500-2 S '42

Crown testing plan for dimensional restorability. Textile Col 64:503 O '42

Physical properties of cotton, linen and rayon-mixed fabrics with all-linen and all-rayon fabrics. H. M. Fletcher, M. G. Shelden and C. E. Zink. Rayon 22:735-7; 23:29-30 D '41-Ja '42

To keep them flying; J. P. Stevens & company parachute fabric testing laboratory. H. R. Mauersberger. il Rayon 23:380-1 Jl '42

Warmth and wearing qualities of spun rayon and wool blended fabrics. K. B. Cook. il Textile World 92:113-14 S '42

Wool mixtures

Blending wool and rayon staple fibers. H. R. Mauersberger. Rayon 23:314-16 Je '42

Comparative study of four methods for the quantitative determination of wool in mixed fabrics. L. E. Weidenhammer. bibliog Am Dyestuff Rep 31:441-5 S 14 '42

Dyeing of staple fiber for the woolen cloth industry. E. Köster. Textile Col 64:382 Ag '42

New rayon staple allocation to wool manufacturers issued. Rayon 23:491 Ag '42

Review of spun rayon in worsted-type fabrics. P. Sillan. Rayon 23:329 Je '42; Abstract. Textile World 92:126 Je '42

Warmth and wearing qualities of spun rayon and wool blended fabrics. K. B. Cook. il Textile World 92:113-14 S '42

See also
Rayon yarn—Wool mixtures

RAYON fibers

Blending wool and rayon staple fibers. H. R. Mauersberger. Rayon 23:314-16 Je '42

Internal structure of synthetic fibers and its influence on their physical properties. E. H. Freund and H. Mark. bibliog diags Rayon 23:515-17, 605-6 S-O '42

New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42

New rayon staple allocation to wool manufacturers issued. Rayon 23:491 Ag '42

Rayon blends on worsted system. R. A. Smith. il diag Textile World 92:106-9 S; 90-1 O; 78-9+ N '42

Rayon staple fiber and the worsted system. R. A. Smith. il Rayon 23:389-90 Jl '42; Same. Textile Col 64:399-400 Ag '42

Rayon staple fiber for carpets improved by research. J. A. Truitt. Rayon 23:612-13 O '42

RAYON fibers—*Continued*

Rayon staple fiber spinning on the cotton system. R. Bouvet. il Rayon 23:272-3, 330-1 My-Je '42; Same cond. Textile Col 64:351-2+ Jl '42

Strengthened rayon fibers. A. J. Hall. Textile Col 64:13-14 Ja '42

Viscose staple fiber allocation for worsted mills. Rayon 23:192-3 Ap '42

See also

Rayon spinning

RAYON finishing

Bedspread and cushion cover fabrics; practical considerations in dyeing and finishing mixed viscose and acetate rayon textures. Textile Col 64:179-81 Ap '42

Chemical stratagems in waterproofing processes. Textile Col 64:95-8 F '42

Crepe fabric processing. Textile Col 64:259-60 My '42

Defects in finished fabrics; definitions and causes of faults which occur in dyeing and finishing processes. B. S. Hillman. il Textile World 92:78 Jl '42

Effect of resin finishes on the color fastness and physical properties of rayon gabardines. H. M. Fletcher, W. M. Hay and A. J. Surratt. Am Dyestuff Rep 31:489-93 bibliog(p514) O 12 '42

Finishing of cotton and rayon fabrics so that they do not shrink. A. J. Hall. Textile Col 64:379-80 Ag '42

Finishing rayon crepes. C. P. Atkinson. Textile Col 64:451-4 S '42

Finishing the newer types of rayon hosiery. H. H. Mosher. Am Dyestuff Rep 31:197-8, 219-20 Ap 27 '42

Improving the hand of rayon piece goods. C. H. S. Tupholme. Rayon 23:331 Je '42

Modern finishing plant in Mexico for rayon and cotton piece goods. A. R. Gerstel. il Rayon 23:327-8 Je '42

Preparing, dyeing and finishing of rayon crêpe fabrics. C. P. Atkinson. il Soc Dyers & Col J 58:89-93 My '42; Abstract. Textile Col 64:380-1 Ag '42

Processing new types of viscose, bemberg, nylon and mixture hosiery. L. O. Koons. Rayon 23:108-9 F '42; Same. Textile Col 64:285-6+ Je '42

Processing products for replacement materials to be used in the manufacture of silk hose. C. B. Kinney. Am Dyestuff Rep 31:87-90 F 16 '42

Rayon hosiery dyed and finished to replace silk. N. D. White. Rayon 23:212-13 Ap '42

Sanforizing as applied to rayons and unstable fabrics. H. D. Clayton. Am Dyestuff Rep 31:137; Discussion. 140-3 Mr 16 '42

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

See also

Dyes and dyeing—
  Rayon

Rayon printing

RAYON flock

Flock; its manufacture, application, and uses. J. B. Dow. Textile Col 64:238-40 My '42; Same. Rayon 23:387, 473-4 Jl-Ag '42

RAYON industry

American viscose corp.; record of thirty years development of America's leading rayon producer. il Rayon 23:81-96 F '42

Call to rayon industry on conservation. W. C. Appleton. Rayon 23:514 S '42

Phenomenal developments in American rayon pulp. il Rayon 23:376-9 Jl '42

Rayon forges ahead as textile industry's common denominator. Rayon 23:250-1 My '42

Rayon in first six months of 1942. W. C. Appleton. Rayon 23:374 Jl '42

Rayon production in 1942. W. C. Appleton. Comm & Fin Chr 155:449 Ja 29 '42

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

Unparalleled demand for rayon carried production total to close to 600,000,000 pounds; reports by prominent yarn manufacturers. Rayon 23:2-40 Ja '42

What are the reasons for this success of rayon? E. S. Kennedy. Rayon 23:503-5 S '42

See also

American viscose corporation

Celanese corporation of America

Regulation

Filling export gap; U.S. Rubber to handle rayon yarn through Latin outlets. Business Week p32+ My 2 '42

New rayon grey goods ceiling prices effective April 21, 1942; with text of order. Rayon 23:265-71 My '42

Rayon on the spot; new WPB order further strains facilities. Business Week p66-8 Mr 21 '42

Viscose staple fiber allocation for worsted mills. Rayon 23:192-3 Ap '42

Statistics

Annual rayon statistical survey, 1941. Textile Col 64:153 Mr '42; Pulp & Pa of Can 43:300 Mr '42

Consumption of cellulose by the rayon industry. Rayon 23:375 Jl '42

Distribution of rayon filament yarn in the knitting and weaving industries. H. R. Mauersberger. Rayon 23:224 Ap '42

1941 rayon production and consumption again breaks all records. Comm & Fin Chr 155:485 Ja 29 '42; Same. Rayon 23:74 F '42

1942 rayon output new high. Textile World 92:101 S '42

Rayon and synthetic fibers, 1941. Chem & Met Eng 49:97+ F '42

Rayon's transition to dominance in the fine goods textile field; charts and tabulation. Rayon 23:112a F '42

Still another record for rayon in 1941. Textile World 92:132-3 F '42

U.S.A. rayon production, 1930-1941; chart. Rayon 23:5 Ja '42

France

French rayon industry collaborates with Germany. Pulp & Pa of Can 43:859 O '42

Great Britain

Rayon and synthetic fibres. H. L. Johnson. Textile Inst J 33:P54-60 My '42

Mexico

First rayon plant in Mexico. A. R. Gerstel. il Rayon 23:293 My '42

Survey of the Mexican rayon situation. Rayon 23:256 My '42

RAYON machinery

Davis & Furber rayon staple fiber card. il Rayon 23:629 O '42

New cooling and conditioning machine for rayons. il Rayon 23:54 Ja '42

New rayon ring twister, completely redesigned. il Rayon 23:20-2, 53 Ja '42

RAYON manufacture

Adsorption by strontium salts of traces of iron from caustic soda solutions. W. E. Caldwell and C. A. Boyd. bibliog Ind & Eng Chem 34:230-3 F '42

American viscose corp. completely air conditions its Front Royal plant. J. J. Burke. il diag plan Heat & Ven 39:95-100 Ja '42

American viscose corp.; record of thirty years development of America's leading rayon producer. il Rayon 23:81-96 F '42

Cereal straws in paper and rayon pulp manufacture; abstract. G. Jayme and others. Paper Ind 23:948 D '41

Change in the viscosity of viscose by addition of reagents. P. C. Scherer and J. R. Leonards. Rayon 23:607-9 O '42

Continuous production of viscose rayon; flow sheet. il Chem & Met Eng 49:116-19 O '42

Dissolving pulp in war-time; supplementing linters with wood pulp in production of smokeless powder, rayon and plastics. A. D. Styles. Chem & Met Eng 48:80-2 D '41; Excerpts. Rayon 23:116 F '42

RAYON manufacture—*Continued*
Pictorial diagram of viscose rayon manufacture. Heat & Ven 39:94 Ja '42
Studies in steeping procedure. il Rayon 23: 145-7, 254-6 Mr, My '42
Sulphur and sulphur compounds in the rayon industry. W. W. Duecker. il Rayon 23:457-8 Ag '42
See also
Dyes and dyeing—Rayon
Rayon fabrics
Rayon mills
Rayon spinning
Rayon weaving
Rayon yarn

RAYON mills
First rayon plant in Mexico. A. R. Gerstel. il Rayon 23:293 My '42

Air conditioning

American viscose corp. completely air conditions its Front Royal plant. J. J. Burke. il diag plan Heat & Ven 39:95-100 Ja '42

Employees

Inspectors need keen vision; tests of women engaged in inspection of rayon yarn. A. W. Ayers. il Textile World 92:96 O '42

Equipment

All-out operation speeds mechanical advance. R. Trautschold. il Rayon 23:563-9 S '42
How to maintain existing stainless steel equipment. C. C. Snyder. il Rayon 23:561-2, 626-7 S-O '42
Pumps, valves and fittings all may constitute bottlenecks; handling fluids for processing operations especially in manufacture of rayon and synthetic yarns. il Rayon 23:297-300 My '42
Textiles lead in instrumentation advance. R. Trautschold. il Rayon 23:623-5+ O '42
See also
Rayon machinery

Management

Inventory management in rayon weaving. G. A. Dash, jr. 47p pa 50c Textile foundation, Washington, D.C. '41

RAYON printing
Copper-peroxide reaction of dyeings. H. P. Baumann. Textile Col 64:36 Ja '42
Delustering acetate rayon. A. J. Hall. Textile Col 64:381+ Ag '42
Discharge printing on acetate rayon crepes. Textile Col 63:697-8 D '41
Discharge printing on acetate rayon crepes; hand block printing. Textile Col 64:216-17 My '42
Lacquer prints on rayon. Textile Col 64: 122 Mr '42
Recent years' developments in dyestuffs for, and in the dyeing and printing of, celanese and mixtures. G. H. Ellis. Soc Dyers & Col J 57:353-7 D '41; Abstract. Am Dyestuff Rep 31:252+ My 25 '42; Discussion. Soc Dyers & Col J 57:357-8 D '41
Screen printing of rayons. il Rayon 23:353-4, 400-1, 547-8, 666-7 Je-Jl, S, N '42 (to be cont)

RAYON research
Report of the research committee of the National assn. of hosiery mfrs. il Rayon 23:345 Je '42
Review on the structure of cellulose fibers. W. Marquette. bibliog Rayon 23:518-19 S '42
Textile research problems suggested by the industry. Rayon 22:710-11 D '41

RAYON scouring
Improved rayon scouring. Rayon 23:369 Je '42

RAYON sizing
Automatic control of rayon warp slashing. W. W. Humecky. il diags Rayon 23:276-8 My '42
Progress in sizing and twist for rayon hosiery. Rayon 23:534-5 S '42
Progress in yarn sizes for rayon hosiery. M. H. Mosher. il Rayon 23:531-3 S '42
Rayon warp sizing practice. A. C. Wayman. il diags Textile World 92:76-7 Ap; 111-12 My; 108-9 Je; 120-1 Jl '42
Screen printing of rayons; preparation of cloth, desizing difficulties. il Rayon 23:353-4 Je '42
Sizing filament rayon. A. E. Carpenter. Rayon 23:393 Jl '42
Use of Avconit no. 1 in manufacturing rayon hosiery. E. L. Lauber. Rayon 23:348-9 Je '42; Same. Textile Col 64:391+ Ag '42

RAYON spinning
Making spun rayon yarns on cotton, woolen, and worsted systems. R. Bouvet. il Textile World 92:84-5 My '42
New device for producing more uniform rayon filament denier. diag Rayon 23:180 Mr '42
New long staple fiber spinning on cotton machinery. il Rayon 23:432 Jl '42
Rayon staple fiber spinning on the cotton system. R. Bouvet. il Rayon 23:272-3, 330-1 My-Je '42; Same cond. Textile Col 64:351-2+ Jl '42
See also
Rayon fibers
Rayon yarn

RAYON staple fibers. See Rayon fibers

RAYON throwing
Laboratory controlled throwing; use of testing instruments helpful in maintaining quality control of rayon yarn. W. Haene. il Textile World 92:80-1 Ag '42
New treatment for rayon hosiery yarn. L. E. Rossiter. Rayon 23:538 S '42
Rayon-cake throwing. C. W. Bendigo. il Textile World 92:77 Mr '42
Soaking rayon for hosiery. C. W. Bendigo. Textile World 92:68 Ja '42
Throwing rayon hosiery yarns. C. W. Bendigo. il Textile World 92:96 Ap '42
Throwing rayon yarn. C. W. Bendigo. il Textile World 92:109-10 S '42

RAYON waste
Fillers; swelling properties and structure. R. J. Kent and J. Seiberlich. il Mod Plastics 19:65-9+ Je '42
Rayon waste in wartime. E. W. Dutton. Rayon 23:524 S '42

RAYON weaving
Better weaving chart. diag Rayon 23:343 Je '42
Center filling stop motion defects. H. E. Wenrich. il Rayon 23:283-4, 335-7 My-Je '42
Evolution of a rayon warp section beam. R. U. Thornton. il Rayon 23:274-5 My '42
Factors influencing rough cloth. H. E. Wenrich. il Rayon 23:394-5, 469-70, 529-30, 613-14, 664-5, 721-2 Jl-D '42
How to box your new rayon shuttle. Rayon 23:364 Je '42
How weave repeat marks are caused. P. G. Alexander. Rayon 23:337-8 Je '42
Improvements in rayon shuttles. il Rayon 23:525 S '42
Loomfixers' manual; rayon and silk section (cont). H. E. Wenrich. diags Textile World 92:99 Ja; 108 Mr; 114-15 My; 93 Je; 82 Jl; 103 Ag; 98 O '42
Mixed filling yarn and its problems. H. E. Wenrich. il Rayon 22:720-2; 23:25-6, 101-2+ D '41-F '42
Modern rayon warp knitted fabrics. W. Davis. il Rayon 23:207-8 Ap '42
Prevention of filling bands. A. C. Wayman. il Textile World 91:76-7 D '41
Seersucker and its variations. J. Hoye. il Textile World 92:84-5 O '42
Tensioning the new rayon warp. diags Rayon 23:471-3 Ag '42
Weaving defects; their causes and remedies. il diags Rayon 22:535-7, 612-14, 671-3, 730-2; 23:27-8, 103-4, 156-8, 281-2, 398-9 S '41-Mr, My, Jl '42

Tables, calculations, etc.

Calculating rayon loom production. H. R. Mauersberger. Rayon 23:279-80 My '42

RAYON weighting
Weighting of rayon and spun fabrics. Textile Col 64:363 Jl '42

RAYON winding
Progress in the technique of rayon winding. E. H. Doute. il Rayon 23:22-5 Ja '42

RAYON yarn

American viscose corp.; record of thirty years development of America's leading rayon producer. il Rayon 23:81-96 F '42

Available rayon hosiery yarns. H. R. Mauersberger. Rayon 23:220 Ap '42

Celanese yarn suitable for full-fashioned hosiery. J. P. Holmes. Rayon 23:622 O '42

Distribution of rayon filament yarn in the knitting and weaving industries. H. R. Mauersberger. Rayon 23:224 Ap '42

Excerpts from the Rayon and cotton hosiery handbook. il Rayon 23:203-4 Ap '42

Filling export gap; U.S. Rubber to handle rayon yarn through Latin outlets. Business Week p32+ My 2 '42

Fine rayon allotments for hosiery uses. Rayon 23:349 Je '42

In knitting rayon hosiery; manufacturers must pay heed to properties of yarns. Textile World 91:66-7 D '41

Making spun rayon yarns on cotton, woolen, and worsted systems. R. Bouvet. il Textile World 92:84-5 My '42

Mixed filling yarn and its problems. H. E. Wenrich. il Rayon 22:720-2; 23:25-6, 101-2+ D '41-F '42

More about making rayon hosiery. E. M. Schenke. il Rayon 23:201-2 Ap '42

New rayon ring twister, completely redesigned. il Rayon 23:20-2, 53 Ja '42

New rayon yarn allocation rules. Rayon 23:131-3 Mr '42

New treatment for rayon hosiery yarn. L. E. Rossiter. Rayon 23:538 S '42

Plastic-coated rayon yarns. H. R. Mauersberger. il Rayon 23:466 Ag '42

Practical methods of tinting of filling yarn. H. E. Wenrich. Rayon 23:294 My '42

Processing new types of viscose, bemberg, nylon and mixture hosiery. L. O. Koons. Rayon 23:108-9 F '42

Processing rayon hosiery yarn before knitting. J. H. Brine. Rayon 23:163 Mr '42

Progress in sizing and twist for rayon hosiery. Rayon 23:534-5 S '42

Progress in yarn sizes for rayon hosiery. M. H. Mosher. il Rayon 23:531-3 S '42

Rayon in 1942 will meet demands to utmost. H. H. Anning. Rayon 23:4+ Ja '42

Rayon warp sizing practice. A. C. Wayman. il diags Textile World 92:76-7 Ap; 111-12 My; 108-9 Je; 120-1 Jl '42

Rayon yarn in the hosiery industry. Rayon 22:669-70 N '41

Review of present hosiery products. N. Gowdy. il Rayon 23:188-91 Ap '42

Review of spun rayon in worsted-type fabrics. P. Sillan. Rayon 23:329 Je '42; Abstract. Textile World 92:126 Je '42

Soaking rayon for hosiery. C. W. Bendigo. Textile World 92:68 Ja '42

Technical panel discussion on rayon hosiery. E. M. Schenke, E. N. Ditton and E. L. Lauber. Rayon 23:99-100 F '42

Textile chemistry in knitting full-fashioned hosiery. V. A. Schiffer. Rayon 23:209-11 Ap '42

Throwster serves the silk hosiery industry without silk. G. A. Urlaub. Am Dyestuff Rep 30:708-9+ D 22 '41

Use of rayon in hosiery. E. L. Lauber. il Rayon 23:97-8 F '42

Why use high twist in rayon hosiery? J. A. Van Laer. Rayon 22:727-8 D '41

See also

Rayon winding

Moisture content

Automatic control of rayon warp slashing. W. W. Humecky. il diags Rayon 23:276-8 My '42

Variation of humidity is quickly apparent in yarn quality. Rayon 23:116+ F '42

Prices

OPA places ceilings on filament and staple rayon yarns as of June 22nd, 1942; with text of order. Rayon 23:405-15 Jl '42

Rayon filament yarn, wholesale price, viscose, 150 denier, first quality; new series; monthly, Jan. 1913-Sept. 1941. Survey of Cur Business 21:22 N '41

Tables, calculations, etc.

Commercial comparative yarn table and equivalents. Rayon 23:458 Ag '42

Many changes in deniers and filament numbers; revised table as of March, 1942. H. R. Mauersberger. Rayon 23:148-50 Mr '42

More changes in deniers and filament numbers; revised table as of September, 1942. H. R. Mauersberger. Rayon 23:526-8 S '42

New rayon hosiery yarn table. H. R. Mauersberger. Rayon 23:598 O '42

Testing

Effect of rate of loading on tensile strength of cord and yarn. M. Castricum and A. N. Benson. bibliog Am Soc T M Proc 41:1214-16 '41

Laboratory controlled throwing; use of testing instruments helpful in maintaining quality control of rayon yarn. W. Haene. il Textile World 92:80-1 Ag '42

Wool mixtures

Rayon blends on worsted system. R. A. Smith. il diag Textile World 92:106-9 S; 90-1 O; 78-9 N '42

Rayon staple fiber and the worsted system. R. A. Smith. il Rayon 23:389-90 Jl '42; Same. Textile Col 64:399-400 Ag '42

RAYONIER incorporated

Phenomenal developments in American rayon pulp. il Rayon 23:376-9 Jl '42

RAYS

See also

Absorption of rays
Alpha rays
Beta rays
Cosmic rays
Dispersion of rays
Gamma rays
Infrared rays
Radiation
Ultraviolet rays
X rays

RAYS (fish)

Sting-ray attack on a man on the upper Amazon. H. Bassler. Science 96:274 S 18 '42

RAYS, Absorption of. See Absorption of rays

RAZOR blades

American shaves; domestic steel has taken over a Swedish job. Business Week p19-20+ Mr 21 '42

Pal blades break 750 markets with sampling and advertising; turns from private brands to advertised name. il Sales Management 51:50-1 S 15 '42

Razor blade panic; fears of shortage unfounded; how to conserve. Business Week p48 Ap 11 '42

Advertising

How to find best radio station and time to advertise your product. R. Manville. Ptr Ink 199:19-20+ Ap 24 '42

How to find strongest selling argument for your product; Marlin razor blade advertising; split-run testing. R. Manville. il Ptr Ink 198:16-18+ Mr 13; 28, 30+ Mr 27 '42

Rating

Razor blades. Consumers' Research Bul 9:3-4 Je '42

REA, George Peters, 1894-

Named president of Drexel institute. Comm & Fin Chr 156:184 Jl 16 '42

Rea resigns as head of NY curb exchange. Comm & Fin Chr 155:1440 Ap 9 '42

REACTANCE

Reactance and skin effect of concentric tubular conductors. H. B. Dwight. bibliog Elec Eng 61:Trans 513-18 Jl '42

Reactance tubes in F-M applications. A. Hund. diags Electronics 15:68-71+ O '42

REACTIONS, Chemical. See Chemical reaction

REACTIVE power

A.c. reactive supply. G. W. Stubbings. Electrician 128:115-16 F 13 '42

Capacitors bring system relief; Northwestern electric co. C. McLean. il Elec West 89:68-70 S '42

Capacitors preferred to machine reactive; pole top capacitors to supply shortage at Cahokia station. G. P. Gamble, R. C. Morris and A. W. Howell. il Elec W 118:935 S 19 '42

REACTIVE power—*Continued*
- Facilities for the supply of kilowatts and kilovars. H. K. Sels and T. Seely. map Elec Eng 61:Trans 249-55 My '42
- How to represent system reactive; diagram. W. W. Parker. Elec W 118:156 Jl 11 '42
- Long-distance power transmission by alternating current. E. Friedländer and C. J. O. Garrard. diags Engineering 153:1-3, 21-3, 41-3 Ja 2-16 '42
- Reactive power. C. J. O. Garrard. Electrician 128:359-61 Ap 17 '42; Discussion. 128:396; 129:167-70, 505-6+ Ap 24, Ag 14, N 6 '42
- Reactive power metered as in-out magnetizing; clarity facilitated by labeling varmeter scales. G. S. Lunge. il diags Elec W 117:1340-1 Ap 18 '42
- Reduce system vars to trim losses. J. W. Butler. Elec W 117:2242 Je 27 '42
- Static capacitors save investment dollars. R. G. Hooke. Elec W 117:1008-10, 1180-2 Mr 21-Ap 4 '42
- Supplying kilovar loads for war conservation and economy. M. C. Miller. diags Edison Elec Inst Bul 10:363-8+ O '42

REACTORS
- Short-circuit rating and testing of current-limiting reactors. J. G. Wellings and R. V. Wheeler. diags Inst E E J 89:473-9 O '42; Abstracts. Electrician 128:285 Mr 27 '42; Elec R (Lond) 130:339 Mr 13 '42; Discussion. Inst E E J 89 pt2:479-84 O '42; Electrician 128:285-8 Mr 27 '42

READERSHIP. See Advertisements—Readership

READING
- Primer for readers. E. A. Tenney and R. M. Wardle. 158p $1.25 Crofts '42

See also
Books and reading

READING company
- Annual report, 1941. Comm & Fin Chr 155: 1501, 1518 Ap 13 '42; Excerpt. Ry Age 112: 766 Ap 11 '42
- Generous yields on Reading bonds. A. Jansen. Barron's 22:19-20 F 16 '42
- Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:595 S 19 '42

READY-mixed concrete. See Concrete mixing—Ready-mixed concrete

READY-mixed concrete association, National. See National ready-mixed concrete association

REAL estate boards, National association of. See National association of real estate boards

REAL estate bonds. See Bonds, Real estate

REAL estate business
- Decentralized cities; effects on urban real estate values. H. Hoyt. Trusts & Estates 73:593-5 D '41
- Factors affecting future real estate values. Comm & Fin Chr 155:940 Mr 5 '42
- How the war emergency is affecting real estate. E. M. Fisher. Bankers M 143:549-50 D '41
- Oppose Patman bill as real estate threat. Comm & Fin Chr 155:2039 My 28 '42
- Organization of occupancy as an approach to real estate management. M. J. Feldstein and L. C. Bryant. J Land & Pub Util Econ 17:460-4 N '41
- Outlook for mortgages and real estate. M. Nadler. Bankers M 144:71-5 Ja '42
- Pattern of future realty market. R. H. Armstrong. Trusts & Estates 75:407-8 O '42
- Pitfalls in income property investment. H. S. Kahm. Barron's 21:18 N 24 '41
- Real estate business as a profession. J. B. Spilker. 2d rev & enl ed 517p bibliog(p385) $4 J. G. Kidd & son, 19 E. 4th st, Cincinnati '41
- Real estate survey finds prices rising. Comm & Fin Chr 156:187 Jl 16 '42
- Realtors' outlook. Business Week p29-30 Mr 28 '42
- Realty's realities; permanent redistribution of population and shift in values. Business Week p60+ S 19 '42
- Residential real estate overhang down sharply during 1941. Comm & Fin Chr 156:1185 O 1 '42
- Rubber shortage and real estate. Bankers M 144:353-4 Ap '42
- Sees vast post war real estate changes. M. Nadler. Comm & Fin Chr 155:1546 Ap 16 '42
- Small city realty may suffer from war. T. S. Burnett. East Underw 43:12 Je 19 '42
- Survey of real estate market finds prices advancing. Comm & Fin Chr 155:235 Ja 15 '42
- Urban disintegration and the future of land investments. G. Whitnall. J Land & Pub Util Econ 17:440-51 N '41

See also
Banks and banking—Real estate operations
Building
Housing finance
Housing projects
Land trust certificates
Land values
Leases
Mortgages
Real property
Rent
Suburban development

also National association of real estate boards

Advertising

- How to sell homes in wartime; advertising by Williams & Harter, Port Washington, L.I. il plans Am Bld 64:77-9+ Ap '42

Finance

- Outlook for real estate securities. J. O. Newlon, jr. Barron's 22:18 Ja 26 '42

See also
Bonds, Real estate
Building—Finance
Home ownership—Finance
Housing finance
Mortgages

Securities

- Real estate securities at the present and prospects for the future. H. R. Amott. Comm & Fin Chr 155:449 Ja 29 '42

See also
Bonds, Real estate

Surveys

- New criteria in selecting mortgages. I. Bussing. Trusts & Estates 75:257-8, 260 S '42
- Philadelphia's ills; diagnosis by real estate specialist. il Business Week p34, 36 F 7 '42
- Semi-annual survey of real estate market. il Am Bld 64:62 Ag '42
- Surveying the movement of blighted areas; study of New York city and two suburban counties. Burroughs Clearing House 26: 10-11 Ag '42

London

- London property companies. Economist 142: 153-4 Ja 31 '42

New York (city)

- Astor diversifies; Manhattan apartments exchanged. Business Week p64 S 19 '42
- Occupancy upswing of downtown real estate. Comm & Fin Chr 156:1068 S 24 '42

REAL property
- Business and property law. R. E. Stone. 1033p $5.50 Foundation press, Chicago '41
- Cases and readings on property; introduction to real and personal property. E. Fraser, ed. 2d ed 2v v1 555p $5 Foundation press, 222 W. Adams st, Chicago '41
- Effect of airport development on value of adjacent real estate. 16p pa 50c Nat. assn. of assessing officers, 1313 E. 60th st, Chicago '41

See also
Eminent domain
Farms
Land tenure
Land titles
Mortgages
Real estate business
Rent

Taxation

- State tax on land taken by military. Comm & Fin Chr 156:189 Jl 16 '42

REAL property—*Continued*

Valuation

Appraisal of bank properties. K. L. Hyder. Bankers Mo 58:550-1; 59:12-13+, 64, 66+ D '41-F '42

Appraisal process. G. L. Schmutz. 229p $3.75 for sale by Minetta Miller, 633 S. La Brea av, Los Angeles '41

Farm land appraising; with essentials of farm management and agricultural engineering. H. S. Weaver. 574p $5 Weaver real estate appraisal training service, Kansas City, Mo. '41

Valuation of residential real estate. A. A. May. 309p bibliog(p301-2) $4 Prentice-Hall '42

See also
Insurance, Fire—Valuation of property

Kentucky

Judicial sales of real property; persons under disability; forms. J. B. Rodes. 264p $9 Banks-Baldwin law pub. co, Cleveland '41

New York (state)

Interesting realty decisions. J. Shapiro. 381p $3.50 Stuyvesant press, 445 Pearl st, New York '41

Ohio

Ohio real property titles, practice, outlines and forms; a complete manual. K. Wright and E. R. McNeill. 424p $8 Haynes pub. co, 510 Auditorium bldg, Cleveland '41

REAL property, Tax delinquent. See Tax delinquency

REAMERS

Floating socket for machine-driven reamers. M. H. Ball. diags Am Mach 86:163 Mr 5 '42

Welding rod rebuilds reamers. G. W. Lewis diag Am Mach 86:1230 O 29 '42

Worn reamers reforged to size. il Iron Age 150:43 O 29 '42

Standards

ASA approves first American standard for reamers. C. M. Pond. il diags Ind Stand 12:257-9 O '41

REAMING

Reaming on a drill press. H. W. Stowell. diags Am Mach 86:1234 O 29 '42

Speeds rifle-bore finishing operations; vertical reaming machines. il Steel 109:77 D 15 '41

RECEIPTS

War-time guide book; in two parts: Make it yourself; Fix it yourself. 250p,260p $1.98 Grosset & Dunlap, New York '42

RECEIPTS (law)

Cheques as receipts. Economist 142:833-4, 868 Je 13-20 '42

RECEIVABLES. See Accounts receivable

RECEIVERS

See also
Bankruptcy
Electric railroads—Receiverships
Insurance companies—Receiverships
Railroads—Receiverships

RECEIVERS, Radio. See Radio receiving apparatus

RECIPES. See Advertisements—Cook books and recipes

RECIPROCAL insurance. See Insurance, Reciprocal

RECIPROCAL trade agreements. See Commercial treaties and agreements

RECIPROCITY law. See Photography—Reciprocity law

RECLAMATION, Bureau of. See United States—Reclamation, Bureau of

RECLAMATION of land

Completion of reclamation work urged as war need; abstract. A. Fortas. Eng N 129:523 O 15 '42

Jap evacuees to be settled on unused lands of western irrigation projects. Eng N 128:761 My 7 '42

Load-bearing characteristics of landfills. R. Eliassen. il diag Eng N 129:369-71 S 10 '42

Sanitary land fills in New York city. R. Eliassen and A. J. Lizee. il Civil Eng 12:483-6 S '42

Spoil reclamation includes setting 7,000,000 trees in Illinois; strip-land reclamation. il map Coal Age 47:66-7 Ag '42

See also
Drainage
Filling
Irrigation
Land utilization

RECONSTRUCTION (European war, 1914-1918)

Democratic ideals and reality; a study in the politics of reconstruction. H. J. Mackinder. 219p $2.50 Holt '42

RECONSTRUCTION (World war, 1939-)

After the war—what? O. G. H. Rasch. Credit & Fin Management 44:7-9 N '42

Agenda for a postwar world. J. B. Condliffe. 232p $2.50 Norton '42

America faces its future. S. Welles. For Comm W 5:3+ N 22 '41

America rebuilt. H. J. Kaiser. Trusts & Estates 75:353 O '42

American challenge. Economist 143:66-7 Jl 18 '42

American proposal; room for democracy and economic freedom in a shrunken world if we agree with Britain to let it expand. Fortune 25:59-63 My '42; Discussion. S. A. Stritch. 25:112 Je '42

American society of refrigerating engineers wartime forum; views on post-war economics. Refrig Eng 44:71-5, 159-65+ Ag-S '42

America's world role. S. Welles. For Comm W 7:3-4+ Je 6 '42

Appeasement, before, during and after the war. P. Einzig. 215p $2.50 Macmillan '42

Approach to postwar planning. R. P. Gustin and S. A. Holme. Harvard Business R 20 no 4:459-72 [Jl] '42

Are war stocks doomed when peace comes? J. L. Hopkins. Barron's 22:3 S 14 '42

Association of British chambers of commerce; post-war industrial reconstruction. Engineer 173:414-15 My 15 '42

Better international economic relations vital. C. Hull. For Comm W 7:38 My 23 '42; Excerpt. Comm & Fin Chr 155:1947 My 21 '42

Blueprints for tomorrow. A. B. Adams. 35p bibliog(p32, 34) pa 50c Univ. of North Carolina, Univ. extension lib, Chapel Hill '42

British and American reconstruction policy. Int Labour R 46:173-5 Ag '42

British employers and reconstruction planning. Int Labour R 46:316-19 S '42

Business in the post-war world. W. C. Taylor. Gas Age 90:11-12+ N 5 '42

Coming age of the world control; the transition to an organized world society. N. Doman. 301p $3 Harper '42

Coming showdown. C. Dreher. 419p $3 Little '42

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Constructive imperialism in a new world. M. J. Bonn. Trusts & Estates 74:129-31 F '42

Cooperation necessary to win peace. S. Welles. Comm & Fin Chr 156:29 Jl 2 '42

Course is clear; demands upon science and technology. L. Saltonstall. Tech R 44:373-4+ Je '42

Dawn of another day. C. W. Dunn. Oil Paint & Drug Rep 141:57-9 Je 15 '42

Door to economic freedom; new and revolutionary responsibility must be assumed by every individual. W. von Tresckow. Barron's 22:3 Jl 13 '42

Electrical engineers and the post-war period. C. L. Fortescue. Engineering 154:315-16, 338 O 16-23 '42; Same cond. Engineer 174:300-1, 312-14 O 9-16 '42

Employment held principal problem of post war period of readjustment. J. A. Farrell. Comm & Fin Chr 155:2039 My 28 '42

Engineer and post-war reconstruction; second conference arranged by Institution of civil engineers. Engineer 174:323 O 16 '42

Engineer's last in the postwar world. D. C. Prince. Elec Eng 61:393-6 Ag '42

RECONSTRUCTION (World war, 1939-)—*Cont.*

Europe, Russia and the future. G. D. H. Cole. 233p $2 Macmillan '42
European reconstruction planning. Int Labour R 45:422-5 Ap '42
Europe's future; review of Rebuilding Europe, a series of interviews. Economist 143:484-5 O 17 '42
Extensive postwar planning outlined by National resources planning board. Elec Eng 61:266-8 My '42
Federation of British industries cites problems of reconstruction. For Comm W 8:3+ Ag 8 '42
Fortune management poll; what does the American executive think of his future? Fortune 26:8-10+ S '42
Fortune survey; people expect to win a long, tough war abroad and a better life at home. Fortune 26:8-10+ Jl '42
Fortune survey; people see hard times after a long but victorious war. Fortune 24:119-22 D '41
Fortune survey; postwar world. Fortune 25: 110-12 Ap '42
Freeing democracy; a new world challenge. C. Macdonald and G. Macdonald. 106p pa $1 New world press, New York '42
Future of industrial man; a conservative approach. P. F. Drucker. 298p $2.50 Day '42
Future of world trade; Anglo-American proposals. Electrician 128:244-5 Mr 20 '42
General principles of a post-war economy; report by the London chamber of commerce. Engineer 173:467-8 Je 5 '42
Getting ready for post-war business. Gas Age 90:18+ N 5 '42
Greatest man in Canada; an appreciation of editor of Winnipeg Free press; advocate of League of nations. B. Hutchison. il Fortune 25:106-11, 114, 116+ Je '42
Insurance leaders in campaign to solve war and post war business problems; Philadelphia program. Comm & Fin Chr 156: 363 Jl 30 '42
International collaboration basis of post war period, from summary of report by Economic, financial and transit department of the League of nations. Trusts & Estates 75:218-19 S '42
I.L.O. and plans for a people's peace; the London meeting of the Emergency committee, April 1942. Int Labour R 46:1-43 Jl '42
London meeting of I.L.O. April 1942. C. Goodrich. Monthly Labor R 54:1320-2 Je '42
Lost peace. H. Butler. 246p $2.75 Harcourt '42; Review. Int Labour R 45:408-13 Ap '42
More than 100 government, private agencies studying post-war social, economic problems. Comm & Fin Chr 155:1446 Ap 9 '42
Old World and the new society; a report on the problems of war and peace reconstruction. 31p pa 3d Nat. executive committee, Labour party, London '42
Open letter of an optimist. H. Walpole. 32p pa 10c Macmillan '41
Peace without platitudes; new world order whose just powers derive from the consent of the governed. J. F. Dulles. Fortune 25: 42-3+ Ja '42
Peace worth fighting for. W. E. Wickenden. Elec Eng 61:113-19 Mr '42; Same abr. Trusts & Estates 74:243-6 Mr '42
People, yes; to build a better world is going to require a better people. Business Week p83 Jl 4 '42
Philadelphia men in program for post-war. East Underw 43:9 Jl 31 '42
Philadelphia's plan; postwar business problems. Business Week p18-19 Jl 4 '42
Planning for postwar reconstruction in southern California. G. G. Lentz, ed. Ann Am Acad 222:133-88 Jl '42
Planning for the post-war period. W. H. Blucher. Roads & Bridges 80:70, 72, 74, 76 S '42
Plans for a post-war world. J. E. Johnsen, comp. Ref Shelf v 16, no 2:1-238 bibliog(p213-38) '42 ($1.25)
Policing of European peace through utility control; why not a post-war international peace tribunal in Switzerland, subject to Allied supervision? T. H. Minshall. Pub Util 30:340-3 S 10 '42
Postwar boom or collapse. S. H. Slichter. Harvard Business R 21 no 1:5-42 [S] '42
Post-war Britain. C. H. Reilly. Arch Forum 76:sup64+ Mr '42
Post war economic policy. A. H. Hansen and C. P. Kindleberger. Trusts & Estates 74: 367-8 Ap '42
Post-war lend-lease. Economist 143:506 O 24 '42
Post war period of greatest economic growth envisioned. P. Cadman. Comm & Fin Chr 155:2124 Je 4 '42
Post-war planning. V. M. Cutter. Trusts & Estates 75:17-18 Jl '42
Postwar planning. G. V. Harrop. Elec Eng 61:274-7 My '42
Postwar planning. W. Lloyd George. Special Lib 33:255-9+ S '42
Postwar planning, a war job. Business Week p17-18 Jl 4 '42
Postwar planning; digest of survey by George B. Galloway. Personnel J 20:363-6 Ap '42
Postwar planning in the United States [work of government and private agencies]. G. B. Galloway. 158p bibliog(p129-58) pa 60c Twentieth century fund, New York '42
Post-war planning needs grand strategy and task forces. C. E. Wilson. il Dun's R 50: 5-8+ S '42
Post-war planning; the Uthwatt committee and public utilities. Elec R (Lond) 131: 373-4 S 18 '42
Post-war pools; projects to cushion shock of economic readjustment. Arch Forum 76: sup52+ Je '42
Postwar potentials for building. T. S. Holden. Arch Rec 92:47-50+ S '42
Post war problems. R. C. Rowe. il Can Min J 63:221-4 Ap '42
Postwar problems and industrial relations. L. L. Lorwin. Advanced Management 6: 138-44 O-D '41
Post-war problems; Federation of British industries' report. Elec R (Lond) 130:734 Je 5 '42
Post-war reconstruction; domestic and international planning for a peaceful world. F. C. James. Can Chem & Process Ind 26: 450, 467 Ag '42
Post-war worlds. P. E. Corbett. 208p bibliog(p197-9) $2 Farrar '42
Prepare. E. K. Clark. Engineer 173:88-90 Ja 30 '42
Production for peace; review of The road we are traveling: 1914-1942, by Stuart Chase. T. R. Carskadon. Credit & Fin Management 44:17+ My '42
Program of the International labor organization. C. Goodrich. Monthly Labor R 54: 305-17 F '42
Public works in a post-war program. F. W. Herring. il Civil Eng 12:368-71 Jl '42
Purpose of America. D. C. Coyle. Ann Am Acad 220:193-9 Mr '42
Reconstruction and peace. J. Huxley. 47p pa 25c New republic books, New York '42
Reconstruction and peace; needs and opportunities. Balbus, pseud. 64p 1s Routledge '41
Reconstruction and planning. Economist 142: 384-5 Mr 21 '42
Reconstruction; fourteen submissions made by the Federation of British industries. Engineer 173:470-1 Je 5 '42
Reconstruction in France. For Comm W 8:15 Jl 25 '42
Reconstruction planning agencies in various countries. Int Labour R 45:532-4 My '42
Reconstruction planning in Australia. Int Labour R 45:166-9 F '42
Reconstruction planning in Great Britain. Int Labour R 46:445-50 O '42
Reconstruction policy in New Zealand. Int Labour R 45:169-70 F '42
Reconstruction; report by the Federation of British industries. Engineering 153:454-6, 476-7, 496-7 Je 5-19 '42
So I said to myself; notes by an anonymous architect. Arch Rec 92:30-1 Ag '42

RECONSTRUCTION (World war, 1939-)—*Cont.*

Social objective in wartime and world reconstruction; New York conference of the International labour organisation. Int Labour R 45:1-24 Ja '42

Some aspects of post-war reconstruction. W. G. Lees. Engineering 153:47-8, 85 Ja 16, 30 '42

Special libraries after the war; eight-point war aims as affecting special libraries. E. T. Evans. Special Lib 32:333-6 N '41

Sunrise on D-day; how business men are planning to provide employment when war ends. B. H. White. Barron's 22:3-4 Je 29 '42

Swords and plowshares; crux of postwar problem will be jobs. D. H. Davenport and D. Hitchcock. Harvard Business R 20 no 3: 307-14 [Ap] '42

There's no limit to material prosperity; address at National foreign trade convention. S. Welles. For Comm W 9:3+ O 17 '42

Toward full use of our resources; analysis of the postwar problem. A. H. Hansen and G. Greer. Fortune 26:130-3+ N '42

Two principles of international amity. A. Eden. Trusts & Estates 75:126-7 Ag '42

United States in a new world; series of reports on potential courses for democratic action. il map Fortune 25:supp 1-21 My; 26:supp 1-33 Ag '42

Vows we shall press on to victory; postwar world. C. Hull. Comm & Fin Chr 156: 377 Jl 30 '42

War and peace; debts and democracy; difficulties, possibilities, objectives. E. Schram. il Dun's R 50:5-9+ My '42

What to do with Germany. T. H. Minshall. 240p $3.25 Norton '41

Winning both the war and the peace. E. M. Patterson, ed. Ann Am Acad 222:1-132 Jl '42

World we want to live in. E. R. Clinchy, ed. 98p $1 Doubleday '42

Youth and a postwar world. J. R. Suman. Min & Met 23:371-4 Jl '42

Bibliography

Peace aims and post-war planning. F. M. Brodie. 53p pa 25c World peace foundation '42

Post-war planning. L. F. McCance, comp. 41p Nat. resources planning board, Washington, D.C. '42

Postwar planning; a reading list. C. H. Brown, comp. Booklist [ALA] 38:317-21 My 1 '42

RECONSTRUCTION finance corporation

Aid for dealers; Murray-Patman act authorizes RFC to bail out handlers of rationed goods. Business Week p41-2 My 30 '42

Defense activity of the Reconstruction finance corporation. C. B. Henderson. il Min Cong J 27:31-3+ N '41

Economic board replaces RFC as buyer of imports. Oil Paint & Drug Rep 141:3 Ap 20 '42

Enact measure to increase power of RFC and provide war damage insurance; text of act. Comm & Fin Chr 155:1546 Ap 16 '42

Functions of RFC in relation to business and war effort. C. B. Henderson. Comm & Fin Chr 155:1627 Ap 23 '42

Great Britain pays RFC. Comm & Fin Chr 156:453 Ag 6 '42

Imports via RFC; subsidy plan. Business Week p34+ Mr 23 '42

Insurance against war perils; government assistance provided. Barron's 22:7 Ja 5 '42

Loans and investments. Fed Res Bul 28:51 Ja '42 [cont monthly]

More funds approved for RFC war activity. Comm & Fin Chr 155:1868 My 14 '42

President signs bill increasing RFC power and providing for war damage insurance. Comm & Fin Chr 155:1342 Ap 2 '42

RFC adopts plan for small mine loans. Min Cong J 28:44 My '42

RFC commitments for war, defense activities total $11,494,438,962. Steel 110:29 Mr 30 '42

RFC permits banks to defer stock payment. Comm & Fin Chr 156:1560 O 29 '42

RFC to assist dealers in rationed articles. Comm & Fin Chr 155:2044 My 28 '42

RFC war funds voted; drop price subsidies. Comm & Fin Chr 155:2124 Je 4 '42

RFC war funds voted; plan business subsidy. Comm & Fin Chr 155:1952 My 21 '42

Relief for dealers; pending legislation would permit RFC to purchase or make loans on autos. Business Week p50-1 Ap 25 '42

Report of Secretary of commerce covering the war and defense activities of the Reconstruction finance corporation and its subsidiaries. For Comm W 6:6-9+ Mr 28 '42

Securities fully guaranteed by U.S. government, by issuing agencies, amounts outstanding, monthly, Nov. 1940-Nov. 1941. Fed Res Bul 28:47 Ja '42 [cont monthly]

Treasury offers 1½% notes of 1946 to holders of maturing HOLC and RFC issues. Comm & Fin Chr 155:2048 My 28 '42

War goes to Mr Jesse Jones. il Fortune 24: 90-3+ D '41

What every miner should know; numerous agencies and aids to promote exploitation of strategic minerals. R. Linton. Explosives Eng 20:289 O '42

Work; address to Chamber of commerce of the United States. J. H. Jones. For Comm W 7:8-9 My 9 '42

Working-capital financing in a war economy. M. D. Ketchum. bibliog J Business 15:331-7 O '42

RECORD changers. See Phonograph—Record changers

RECORDING instruments

Accurate recording of type profiles. C. W. Newberry. il diags Engineering 153:361-3 My 8 '42

Automatic instrument aids mud and well control; weight of drilling mud automatically recorded. J. B. Warren, jr. il Pet Eng (Annual no) 13:76, 78 [Jl] '42

Automatic recording of mud weight prevents many drilling difficulties. il Oil & Gas J 41:37-8 Jl 9 '42

Care of go-devil type straight-hole recorder. Oil & Gas J 40:186-7 Ap 30 '42

Determining stress in haulage and other ropes; patent specification. diags Mech Handling 29:31-2 F '42

Die-cast aluminum case now welded sheet steel; housing for recording instrument. il diags Product Eng 13:196-7 Ap '42

Extended range galvanometer deflection recording system. R. J. Pfister and D. H. Rank. il diag Opt Soc Am J 32:397-9 Jl '42

Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42

Metering flow; head meters. diags Power 86: 92-8 F '42

Subsurface pressure recorders and equipment. H. G. Abadie. il diags Pet Eng 13: 69-70, 73-4+ N '41

See also

Aeronautic instruments
Oscillographs
Photometers
Smoke recorders
Spectrograph
Spectrophotometers
Speed indicators
Water level indicators

RECORDING instruments, Electric

Acceleration-oscillogram method of motor-torque measurement. C. R. Atkinson and E. G. Downie. Elec Eng 61:Trans 7-9 Ja '42

Arm lifts pen from graphic meter charts. J. H. Melville. il diag Elec W 117:111 Ja 10 '42

Automatic autographic wear-measuring device. C. W. Muhlenbruch. il diag Mech Eng 64:289-90 Ap '42

Bridge behavior recorded electrically; installation on Golden Gate structure; wind direction and velocity are measured. il Elec West 89:48 Ag '42

Brush electronic surface analyzer. diag Electronics 15:54+ Jl '42

Circuit-breaker analyzer diagnoses hidden maladies. E. A. Crellin. il diag Elec W 116:1708-9 N 29 '41

RECORDING instruments, Electric—*Continued*

Continuous balance potentiometer pyrometer. R. D. Towne and D. M. Considine. il diags Electronics 15:92+ Ag '42

DePort space-time recorder; laboratory drop testing of airplane landing gear shock struts. A. N. Nordgren. il diag Instruments 15:313-14 Ag '42

Dilatometric equipment from the Lunkenheimer co., Cincinnati. H. E. Montgomery and J. W. Bolton. il diag Metals & Alloys 16:52-5 Jl '42

Electric recording marking counter for the consecutive counting of small objects; counting projected cross sections of wool fibers. H. W. Wolf. diag Science 96:409-10 O 30 '42

Electronic temperature recorder contributes to aviation developments; primarily a flight recorder. il Electronics 15:114+ N '42

Electronic unit eliminates cyclic mechanism; continuous balance potentiometer pyrometer. il diags Product Eng 13:254-6 My '42

Frequency response recorder. diag R Sci Instr 13:464-5 O '42

Graphic records for quality control in welding; Arconograph. H. Lawrence. il Steel 109:76, 79+ D 1 '41

Inkless recording. P. E. Twiss. il diag Gen Elec R 45:511-14 S '42

Instrument for measuring surface roughness; utilizes Rochelle salt piezoelectric crystal, amplifier and oscillograph; Brush surface analyzer. C. K. Gravley. il diags Electronics 15:70-3 N '42

Instruments win our battles; Monsanto chemical company. H. Greer. il Factory Management 100:103-4 F '42

New field intensity recorder. H. W. Kline. il diag Electronics 15:50+ Ja '42

New method of measuring mechanical vibrations; vibrograph. H. C. Werner. il diags Instruments 15:83-7, 94 Mr '42

Operating variables charted by electrical recorders. R. Trautschold. il Chem & Met Eng 49:94-5 Ag '42

Power records aid operations. W. H. Stueve. Oil & Gas J 41:33 S 3 '42

Precision autographic data-plotting method. F. S. Eastman. il diag Instruments 15:116, 118, 120-1 Ap '42

Rate of penetration record facilitates drilling. W. A. Sawdon. il Pet Eng (Annual no) 13: 71, 74 [Jl] '42

Recording automatic balance. P. Ewald. il diags Ind & Eng Chem Anal ed 14:66-7 Ja 15 '42

Twelve-point recorder facilitates analyses of heat treatment processes. S. H. Isaacs. il Instruments 15:106 Ap '42

Use of recording ammeters and voltmeters in welding. H. Lawrence. il Steel 109:54, 56+ D 15 '41

Versatile electro-kymograph. C. Moore and H. Bloomer. il diags Electronics 15:51+ Jl '42

See also
Demand meters
Fulchronograph

RECORDING instruments, Magnetic

Fluxgraph; machine for plotting the magnetic fields of coils. P. G. Weiller. il diag Electronics 15:52-3 My '42

New instrument for recording transient phenomena; magnetic-tape recording. S. J. Begun. il diags Elec Eng 61:Trans 175-7 Ap '42

Oscillography; magnetic oscillograph. J. E. Hancock. bibliog il Gen Elec R 45:527-31 S '42

RECORDING instruments, Photoelectric

Automatic recording; drawing of light-sensitive-cell characteristic curves accomplished by photoelectric recorder. H. T. Wrobel. il diag Gen Elec R 45:585-7 O '42

Dew-point recorder utilizing photo-electric relay safeguards gas line against freezing. J. A. Setter. diag Pet Eng 13:134 F '42

Direct pen recording of galvanometer deflections. D. J. Pompeo and C. J. Penther. il diags R Sci Instr 13:218-22 My '42

High-speed photoelectric recorder. H. L. Clark. il diags Gen Elec R 45:384-6 Jl '42

RECORDS

See also
Accounting
Banks and banking—Records
Bridges—Records
Credit departments—Records
Electric utilities—Records
Factories—Records
Files and filing (documents, etc.)
Inventories
Invoices
Microfilm records
Motor bus lines—Records
Payrolls—Records
Photographic records
Production control
Punched card system
Railroads—Records
Sales records
Stores systems

RECORDS, Destruction of. See Files and filing (documents, etc.)

RECORDS, Disposal of. See Files and filing (documents, etc.)

RECORDS, Microfilm. See Microfilm records

RECORDS, Preservation of

ARP for vital records; abstract. Management R 31:159-60 My '42

Air raid precautions for protection of office records. Credit & Fin Management 44:45-6 Je '42

All bank records protected against fire or bombing; Union bank and trust co., Los Angeles. R. H. Bolman. il Bankers Mo 59: 256-7, 266-7 Je '42

Disposal of old books and papers; effect of Statute of limitations and other enactments in requiring retention of office records. Engineering 153:475 Je 12 '42

Little pictures, big savings; civilian and military uses. L. N. McMahon. il Sci Am 167: 121-2+ S '42

Preservation of business records. R. M. Hower. 3d ed 56p Business historical soc, Boston '41

Problems created by the discontinuance and alteration of statistical information and other sources. G. Hutton. Special Lib 33: 250-5 S '42

Protection of company records against air-raid hazards. P. G. Wharton. Am Gas J 157:9-10 Ag '42

Protection of cultural resources against the hazards of war; a preliminary handbook. 46p bibliog(p39-46) Nat. resources planning board, Washington, D.C; pa 10c Supt. of doc. '42

Protection of records. Banking 35:39 Jl '42

Safeguarding records from air raids. E. H. Conarroe. Edison Elec Inst Bul 10:340 S '42

See also
Microfilm records

RECORDS, Visible

Finding facts and figures; use of plastics in VISIrecord system. il Mod Plastics 19: 36-7, 98+ Ap '42

Hudson finds a better tool control plan. R. G. French. il Am Business 12:18-19 Jl '42

Visible record system saves many press wash-up hours. W. Amshey. il Inland Ptr 109:27 Jl '42

RECREATION

American theatre wing presents the Lunch-hour follies for war workers. il Factory Management 100:90-1+ N '42

Better morale, greater output; workers' club; Lockheed aircraft corporation. O. Arbelbide. il Factory Management 100:86-9 Ja '42

Community recreation in the United States, 1940. Monthly Labor R 53:1213-14 N '41

Community recreation in wartime. Monthly Labor R 55:286-8 Ag '42

Keep 'em happy, employee relations program; Cessna aircraft, Wichita. M. Russ. il Am Business 12:16-18 O '42

Play for all who want to play; employee recreation program; Revere copper & brass, incorporated. P. A. Senft. il Factory Management 100:90-1 Ja '42

Proceedings of the 26th National recreation congress and the Defense recreation conference, Baltimore, Sept. 29-Oct. 3, 1941. 240p pa $1 Nat. recreation assn, New York '41

RECREATION—*Continued*

Recreation and housing for women war workers. M. V. Robinson. U S Women's Bur Bul 190:1-40 bibliog(p35-7); pa 10c Supt. of doc. '42

Recreation keeps them fit; General electric company. G. H. Pfeif. il Nat Safety N 46:22-3 Ag '42

Streamlined recreation guide of Washington and environs, Virginia, Maryland, and Delaware. J. Macdonald, ed. 96p $2.75; pa $1.50 Tourservice, 52 E. 19th st, New York '42

Training through recreation. W. J. Pitt. 74p pa 35c Teachers college '42

War effort unhampered by recreation says FDR. Comm & Fin Chr 155:1159 Mr 19 '42

We make 'em relax; abstract. J. F. Clark. Management R 31:269-70 Ag '42

Zoning land for recreation. G. S. Wehrwein and H. A. Johnson. J Land & Pub Util Econ 18:47-57 F '42

See also
Swimming pools
Vacations

RECREATION areas

Study of the park and recreation problem of the United States. 279p U.S. Nat. park service, Washington; pa $1.25 Supt. of doc. '41

Zoning land for recreation. G. S. Wehrwein and H. A. Johnson. J Land & Pub Util Econ 18:47-57 F '42

RECREATION buildings

America's building need for recreation. il plans Arch Rec 90:73-80 D '41

For service men; hospitality house, San Francisco; community house, New Bern, N.C.; school sport building, Portsmouth, R.I. il plans Arch Rec 91:51-2 Mr '42

Ornamental semi-hexagonal tower; New York City's recreational building, East River park. il diags plans Sheet Metal Worker 32:25-7 D '41

Recreation camps, New York and Pennsylvania; views, plans, and construction outlines. Arch Forum 76:69-78 F '42

Recreational center proposed for Key West, Florida. il diag plans Arch Forum 77:83-5 Ag '42

U.S.O. centers built on fast schedule. il diag plans Eng N 128:554-6 Ap 9 '42

See also
Clubhouses
Gymnasiums
Skating rinks
Swimming pools

also United service organizations for national defense—Buildings

Air conditioning

Navy recreation building heated and cooled. O. E. Gammill, jr. Heating-Piping 14:475 Ag '42

Lighting

Light must live; for recreation. il Elec West 89:52 S '42

RECREATION centers

Community recreation center, Seaford, Delaware. il diags plan Arch Forum 77:67-70 Jl '42

Health and recreational center, Houston, Texas; views, plans, and construction outline. Arch Forum 76:134-6 F '42

Recreational center proposed for Key West, Florida. il diag plans Arch Forum 77:83-5 Ag '42

RECREATION rooms

Tap room for the Acme brewing co, Los Angeles. il plan Arch Rec 90:76-7 D '41

RECTIFICATION

Degrees of freedom in multicomponent absorption and rectification columns. E. R. Gilliland and C. E. Reed. bibliog il Ind & Eng Chem 34:551-7 My '42

Distillation in a wetted-wall tower; investigation on rectification of ethyl alcohol. A. J. Surowiec and C. C. Furnas. bibliog diags Am Inst Chem Eng Trans 38:53-85; Discussion. 85-9 F '42

Distillation practices and methods of calculation. D. F. Othmer. flow sheets il diags Chem & Met Eng 49:84-92 My '42

See also
Distillation

RECTIFIERS, Electric. See Electric rectifiers

RECTIFIERS, Radio. See Radio rectifiers

RECTIFYING apparatus. See Distillation apparatus

RED

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

Red dye from baloghia lucida. C. D. Mell. Textile Col 64:87-8 F '42

RED caps. See Porters

RED clay. See Deep sea deposits

RED cross

A.P.W. paper co. answers Federal trade commission complaint charging improper use of Red Cross name and emblem. Paper Tr J 114:22 Je 4 '42

Clara Barton, daughter of destiny. B. C. Williams. 468p $3.50 Lippincott '41

Dunant; the story of the Red cross. M. Gumpert. 323p bibliog(p321-3) $1 Blue ribbon books '42

First aid in enemy action. L. M. Thompson. il Safety Eng 83:37-8 F '42

President opens Red cross fund campaign. Comm & Fin Chr 155:34 Ja 1 '42

President urges all to join Red cross. Comm & Fin Chr 154:1126-7 N 20 '41

Red cross cargoes for the distressed. il Mod Packaging 15:44-5 My '42

Red cross report on foreign war relief. Comm & Fin Chr 156:109 Jl 9 '42

To bar commercial use of Red Cross emblem. Comm & Fin Chr 155:2130 Je 4 '42

RED lead. See Lead oxides

RED snow. See Algae

RED water. See Water pipes—Corrosion

REDOX. See Oxidation; Reduction, Chemical

REDOX indicators. See Oxidation reduction indicators

REDUCTION, Chemical

Abnormal Grignard reactions; enolizing and reducing action of Grignard reagents upon diisopropyl ketone. F. C. Whitmore and R. S. George. bibliog Am Chem Soc J 64:1239-42 Je '42

Addition of hydrogen to multiple carbon-carbon bonds. K. N. Campbell and B. K. Campbell. Chem R 31:77-175 bibliog(366 references, p167-75) Ag '42

American institute of chemical engineers; student contest problem for 1942; plant for manufacture of aniline oil by the iron-hydrochloric acid reduction process; with prize winning paper by C. C. Neas. flow sheet bibliog Am Inst Chem Eng Trans 38:653-718 Ag '42

Catalytic activity of an intermetallic compound of cadmium and copper in the vapor-phase reduction of nitrobenzene. R. J. Grim. J Phys Chem 46:464-9 Ap '42

Device to demonstrate electronic transfer in redox reactions. L. F. LeRoy. diag J Chem Educ 19:236 My '42

Mechanism of the catalytic reduction of some carbonyl compounds. L. C. Anderson and N. W. MacNaughton. Am Chem Soc J 64:1456-9 Je '42

Partial reduction of acetylenes to olefins using an iron catalyst; enyne and dienyne reduction. A. F. Thompson, jr. and E. N. Shaw. Am Chem Soc J 64:363-6 F '42

Rate of reduction of vanadium pentoxide in concentrated acid solutions; reduction of vanadium pentoxide by arsenious acid, oxalic acid, formaldehyde and ethyl alcohol. M. Bobtelsky and A. Glasner. bibliog Am Chem Soc J 64:1462-9 Je '42

Reduction of iodate and bromate at the dropping mercury electrode in neutral and basic media and the effects of salts upon the current-voltage curves. E. F. Orlemann and I. M. Kolthoff. Am Chem Soc J 64:1970-7 Ag '42

REDUCTION, Chemical—*Continued*

Reduction of iodate and bromate in acid medium at the dropping mercury electrode. E. F. Orlemann and I. M. Kolthoff. diag Am Chem Soc J 64:1044-52 My '42

Study of the products obtained by the reducing action of metals upon salts in liquid ammonia solutions; the reduction of complex nickel cyanides: mono-valent nickel. J. W. Eastes and W. M. Burgess. diag Am Chem Soc J 64:1187-9 My '42

See also

Hydrogenation

Metallurgy

Polarography

Reduction, Electrolytic

REDUCTION, Electrolytic

Addition of hydrogen to multiple carbon-carbon bonds. K. N. Campbell and B. K. Campbell. Chem R 31:129-37 Ag '42

Effect of surface-active agents on electroörganic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46:42-51 Ja '42

Electrolytic reduction of organic compounds; bimolecular products from sorbic acid at a solid and a liquid gallium cathode: analogy with overvoltage. K. B. Wilson and C. L. Wilson. Chem Soc J p874-7 D '41

Electrolytic reduction of strychnine. B. M. G. Zwicker and R. J. Robinson. bibliog Am Chem Soc J 64:790-3 Ap '42

Factors to be considered in quantitative polarography. I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:195-200 Mr 15 '42

Polarographic reduction of osmium tetroxide. W. R. Crowell, J. Heyrovsky and D. W. Engelkemeir. diag Am Chem Soc J 63:2888-90 N '41

Polarographic study of *o*-phthalic acid and phthalates. N. H. Furman and C. E. Bricker. bibliog Am Chem Soc J 64:660-8 Mr '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; aromatic polynuclear hydrocarbons. S. Wawzonek and H. A. Laitinen. bibliog Am Chem Soc J 64:2365-8 O '42

Reduction of unsaturated hydrocarbons at the dropping mercury electrode; phenyl substituted olefins and acetylenes. H. A. Laitinen and S. Wawzonek. bibliog Am Chem Soc J 64:1765-8 Ag '42

REDWOOD

Ersatz: U.S.A. model; redwood-bark fiber. il Textile World 92:96 F '42

Redwood gains. Business Week p52-4 Mr 14 '42

Redwood textile; fiber from bark now being sold by Pacific lumber co. for mixing with wool. il Business Week p55-6 Ja 17 '42

REED, James, 1881-1941

Sketch. M. L. Cooke. Advanced Management 6:149-50 O-D '41

REED, Philip Dunham, 1899-

Portrait. Business Week p7 Mr 14 '42

REFERENCE books

See also

Bibliography

Encyclopedias

Indexes

Periodicals—Indexes

Bibliography

Guide to the reference collections of the New York public library. K. Brown, comp. 416p $6; pa $4.50 New York public lib, New York '41

Subject guide to reference books. H. S. Hirshberg. 260p $4 Am. lib. assn, Chicago '42

REFERENCE work. See Libraries—Reference work

REFINERIES, Petroleum. See Petroleum refineries

REFLECTION (optics)

Anti-reflection films on glass. A. F. Turner. il Glass Ind 22:255-8 Je '41; Same cond. Cer Ind 39:30-2 Jl '42

Cartwright-Turner anti-reflection films. Glass Ind 23:228 Je '42

Colors of furniture. P. Moon. Opt Soc Am J 32:293-8 My '42

Cuts glare; etching glass surfaces reduces reflection. il Sci Am 165:335 D '41

Far ultraviolet reflectivites of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42

Light furniture and surroundings. Light & Lighting 35:109 S '42

Method for investigating the thickness, chemical properties, and surface structure of thin biological objects. D. F. Waugh. bibliog il diag Opt Soc Am J 32:495-502 S '42

New chemical method of reducing the reflectance of glass. F. H. Nicoll. bibliog il RCA R 6:287-301 Ja '42; Abstract. R Sci Instr 13:272-3 Je '42

Progress report on reflectivity of white portland cement concretes. C. W. Muhlenbruch. diags Concrete 50:8-10+ Ja '42

Reflection factors of floor materials. P. Moon. Opt Soc Am J 32:238-42 Ap '42

Reflection factors of some materials used in school rooms; chalkboards, wall and ceiling paints, venetian blinds and window shades. P. Moon. Opt Soc Am J 32:243-6 Ap '42

Reflection-transmission relationships in sheet materials. H. F. Launer. bibliog J Research Nat Bur Stand 27:429-42 N '41; Same. Opt Soc Am J 32:84-93 F '42

Television leads RCA research laboratories to clue that cuts reflections from glass. Radio N 26:64-5 D '41

Ultraviolet reflectance characteristics of various materials. A. H. Taylor. Illum Eng 36:927-30 N '41

Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

See also

Infrared rays

Reflectometers

REFLECTION of electrons. See Electrons—Reflection, scattering, etc.

REFLECTOMETERS

Brightness of pulp; TAPPI suggested method T 217 sm-41. Paper Tr J 113:43-7 D 25 '41

Detergency measurement. J. C. Gould and C. W. Selheimer. diags Soap & San Chem 18:29-31 Mr '42

New reflectometer and a study of its performance. E. C. Bingham and D. Figlioli. bibliog il diags Paper Tr J 113:32-7 D 4 '41

Reflection-transmission relationships in sheet materials. H. F. Launer. bibliog J Research Nat Bur Stand 27:429-42 N '41; Same. Opt Soc Am J 32:84-93 F '42

Some characteristics of metal mirrors and a new gonioreflectometer. F. Benford and W. A. Ruggles. il diag Opt Soc Am J 32:174-84 Mr '42

REFLECTOR buttons

Bit depth gaged for reflector buttons required on poles. diag Elec W 118:158 Jl 11 '42

Blackout reflector disks. il Mod Plastics 19:49 Je '42

Plastics competition award to Lumelite corp.; lawn-stake sign. il Mod Plastics 19:80-1 N '41

REFLECTORS

Alternate materials for industrial reflectors. E. H. Robinson. Elec W 118:1446-7 O 31 '42

Cleaning of lighting reflectors. Elec W 117:1044+ Mr 21 '42

Continuous reflector troughing; fluorescent tubular discharge lamps. il Electrician 128:608-9 Je 19 '42

Design of reflectors for fluorescent lamps. D. P. Severance. diags Illum Eng 36:1314-29 D '41

Fluorescent lighting; avoidance of the tunnel effect. il Light & Lighting 35:97 Ag '42

Near infra-red and metal finishing. P. H. Krupp. il Metal Finishing 40:389-93 Jl '42

REFLECTORS—*Continued*

New dichroic reflector and its application to protocell monitoring systems. G. L. Dimmick. diags Soc Motion Picture Eng J 38:36-44 Ja '42

Portable reflector. L. M. A. Roy. il diags Am Phot 36:27 Ag '42

Spot and flood lighting. A. J. Lockrey. il Am Phot 36:32-5 Je '42

Spreading the light. il Mod Plastics 19:51+ Mr '42

Substitute materials in war-plant lighting. E. D. Tilison. il diags Elec Eng 61:458-60 S '42

Ultraviolet reflectance characteristics of various materials. A. H. Taylor. Illum Eng 36:927-30 N '41

Manufacture

Engineer mirror plant operated by United States army at Mariemont, Ohio, is completely air conditioned. J. F. Kern, jr. il Heat & Ven 39:42-4 Ja '42

Testing

Practical photometry of fluorescent lamps and reflectors. G. R. Baumgartner. diags Illum Eng 36:1340-53 D '41

REFORESTATION. See Forests and forestry

REFORMATSKY reaction

Enolization in the Reformatsky reaction. M. S. Newman. bibliog Am Chem Soc J 64:2131-3 S '42

REFRACTION, Molecular

Indirect estimation of critical temperature and of molar refractivity. R. Livingston. J Phys Chem 46:341-3 Mr '42

Molecular refraction nomograph. D. S. Davis. Ind & Eng Chem 34:258 F '42

REFRACTIVE index

Analysis of the ternary system ethanolmethanol-water; requiring boiling point, refractive index, and specific gravity of the sample. J. Griswold and J. A. Dinwiddie. bibliog Ind & Eng Chem Anal ed 14:299-300 Ap 15 '42

Brewsterian angle and refractive indices. A. H. Pfund. diag Opt Soc Am J 31:679-82 N '41

Dispersion of optical glass. M. Herzberger. Opt Soc Am J 32:70-7 F '42

Influence of an uneven anisotropy on the path of light rays. P. Frank. Phys R 62:241-3 S 1 '42

Iron oxide in enamel glass as dissolved from the metal base. A. I. Andrews and H. R. Swift. il Am Cer Soc J 25:217-22 My 1 '42

Microscopic examination of silica refractories. P. F. F. Clephane. diags Gas J (Lond) 239:282, 287-8 Ag 19 '42

Refractive index measurements at and above the melting point of solids. H. A. Frediani. bibliog il Ind & Eng Chem Anal ed 14:439-41 My 15 '42

Refractive index values for potassium bromide. J. W. Forrest. Opt Soc Am J 32:382 Jl '42

Temperature and composition coefficients of the density, refractive index, and viscosity of the methyl alcohol-dioxane system. E. S. Amis, A. R. Choppin and F. L. Padgitt. bibliog Am Chem Soc J 64:1207-12 My '42

Transmitting, bending; optical characteristics of glass controlled and modified. H. R. Moulton. il Tech R 45:30+ N '42

Use of enzymes in the refractometric method for egg solids; a production control method. W. M. Urbain, I. H. Wood and R. W. Simmons. bibliog Ind & Eng Chem Anal ed 14:231-3 Mr 15 '42

REFRACTOMETERS

Analysis of toluene for benzene by an ultraviolet absorption of vapor mixtures and the determination of concentration of toluene in air by use of the Rayleigh-Jeans interference refractometer. P. A. Cole and D. W. Armstrong. Opt Soc Am J 31:740-2 D '41

Precision instruments speed quality control; determining sweet corn maturity by refractometer and new semi-automatic moisture tester. J. K. Cameron, K. G. Dykstra and J. E. Fix. Food Ind 14:60-3+ Jl '42

Recent developments in refractometry; abstract. J. W. Forrest. Opt Soc Am J 31:755 D '41

Testing and accurate use of Abbe-type refractometers. L. W. Tilton. diags Opt Soc Am J 32:371-81 Jl '42

REFRACTORY industry

Increased mechanization of production noted in refractories survey; from 1939 census of manufactures. Brick & Clay Rec 99:50 N '41

Canada

Draw on Canadian refractories for linings of rotary kilns. J. W. Craig. Concrete (mill sec) 49:282 D '41

Great Britain

Refractories in war time. D. Eyles. Chem Age (Lond) 46:125-6 Mr 7 '42

REFRACTORY materials

Acid and basic Bessemer refractories. J. H. Chesters. bibliog il diags Iron Age 150:43-8 N 5; 58-64 N 12 '42

Acid open hearth refractories. J. H. Chesters. il Iron Age 149:46-51 My 28; 64-70 bibliog(p70) Je 4 '42

American ceramic society annual meeting, Cincinnati; abstracts of refractories papers. Brick & Clay Rec 100:38-9 My '42

A.S.T.M. committee on refractories reports on an active year. Brick & Clay Rec 101:42 Jl '42

Artificial magnesite, StaSet; abstract and discussion. I. A. Nichols. Iron Age 149:50-1 Ap 23 '42

Basic open-hearth refractories; abstract of papers, open hearth conference. Metals & Alloys 16:484+ S '42

Basic refractory practice at Algoma steel corporation, ltd. J. W. Craig. il Blast F & Steel Pl 30:241-5 F '42

Blast furnace refractories. G. R. Rigby and A. T. Green. bibliog il diags Blast F & Steel Pl 30:808-10, 928-30, 1064+, 1176+ Jl-O '42

Boiler firebox maintenance. K. Steiner. il Heating-Piping 14:610-12 O '42

Bricklaying and steel plant refractories; abstracts. A. Morton. Steel 109:186-7 S 15 '41; Blast F & Steel Pl 29:1127-9 O '41; Brick & Clay Rec 100:59-60 Ja '42

Castable refractory shortens furnace shutdowns; L. W. Firecrete. il Steel 109:68 D 1 '41

Casting pit refractories. J. H. Chesters. il diags Iron Age 148:43-9 N 20; 53-8 bibliog(p58) N 27 '41

Chemical action on refractories; annual report of the joint committee. Chem Age (Lond) 46:90 F 14 '42

Chrome ores in open hearth refractories; abstract. F. L. Toy. Iron Age 149:51 Ap 23 '42

Coating protects metal or refractory parts against ravages of extreme heat. Concrete (mill sec) 50:259 O '42

Co-operative investigation of the factors influencing the durability of roofs of basic open-hearth furnaces. T. R. Lynam, J. H. Chesters and T. W. Howie. Blast F & Steel Pl 30:276-8 F '42

Cupola refractories are important materials; abstracts of A.F.A. convention papers. Foundry 70:101+ Je '42

Dolomite bricks for use in steel works. T. Swinden and J. H. Chesters. diags Iron & Steel Inst J 144:105-18, pl 15-16 no 2 '41; Same cond. Blast F & Steel Pl 29:1162-6, [1156-9], 1254-5 O-D '41; Same cond. Engineering 152:317-19 O 17 '41; Excerpts. Metal Prog 41:544 Ap '42

Electric furnace boroaluminate. H. N. Baumann, jr. and C. H. Moore, jr. bibliog il Am Cer Soc J 25:391-4 O 1 '42

Electric steel plant refractories. J. H. Chesters. bibliog il diags Iron Age 149:37-43+ Mr 5; 53-9 Mr 12 '42

REFRACTORY materials—*Continued*

Fine progress made in refractories and raw materials sources in 1941. il Brick & Clay Rec 100:50, 52-3 F '42

Furnace lining that is rammed into place; Ramix. diags Comp Air M 47:6692 Mr '42

Heat treatment of refractory materials. N. W. Taylor and S. Zerfoss. bibliog il Blast F & Steel Pl 30:536-41 My '42

How and where kyanite refractories are used. Brick & Clay Rec 100:50-1 Mr '42

How to get longer service from glasshouse refractories. bibliog il diags Cer Ind 37: 36-7, 40-1, 44 O; 50, 52, 54-6 N; 58+ D '41; Excerpts (pt 2-3). Brick & Clay Rec 100: 40, 42, 44+ Je '42

Improvements in steel mill refractories. L. A. Smith. il Blast F & Steel Pl 30:80-2 Ja '42

Linings of large basic open-hearth tilting furnaces. A. Jackson. Engineering 154:216-17, 224-5 S 11-18 '42

Low temperature carbonization; narrow brick retorts; abstract. J. F. Shaw. Am Cer Soc J 25 (Cer A 21):43-4 F 1 '42

Microscopic examination of silica refractories. P. F. F. Clephane. diags Gas J (Lond) 239:282, 287-8 Ag 19 '42

Modern blast furnace refractories. R. E. Birch. bibliog il diags Blast F & Steel Pl 30: 345-50, 437-40+ Mr-Ap '42

Modern hearth refractory practice; Ramix and Ramix 82. H. N. Barrett, jr. il diags Blast F & Steel Pl 29:1218-20 D '41; Same. Steel 110:80, 82, 84 Mr 23 '42

Open-hearth furnace refractories; discussion. Engineering 153:505 Je 26 '42

Properties of refractory materials, except fireclay. S. M. Phelps, comp. Metal Prog 42:640 O '42

Protecting water-cooled equipment on open-hearth furnaces. J. B. Luckie. il diags Steel 110:70, 72+ Ja 12 '42

Rammed linings for small electric furnaces. H. C. Fisher. il diags Metal Prog 41:187-91 F '42

Refractoria quo vadis. J. D. Sullivan. bibliog il Blast F & Steel Pl 30:72-5 Ja '42

Refractories. F. H. Norton. 2d ed 798p $7.50 McGraw-Hill '42

Refractories can substitute for metal in hot air furnaces. diag Brick & Clay Rec 100: 46 Je '42

Refractories for lime recovery kilns. C. A. Brashares. il diags Paper Ind 23:1200-3+ Mr '42

Refractories in war time. D. Eyles. Chem Age (Lond) 46:125-6 Mr 7 '42

Refractories service conditions in the blast furnace. H. M. Kraner. il diags Am Cer Soc J 25:311-20 bibliog(75 titles, p318-20) Jl 1 '42; Same. Steel 111:66+ Ag 31; 82+ S 7 '42

Refractory materials, representative makers of refractories and high temperature mortars; physical properties. Chem & Met Eng 49:99-100 O '42

Relation of permeability and specific gravity of insulating refractories. P. G. Herold. L. Stearns and W. J. Smothers. diag Mo U Sch Mines & Met Bul tech ser v 14 no 4: 1-51 '42

Shetland chromite; refractories from British materials. Chem Age (Lond) 47:210 Ag 29 '42

Soaking pit and reheating furnace refractories. J. H. Chesters. il diags Iron Age 150:35-42 Jl 16; 38-43 Jl 23 '42

Specially calcined china clay used as a refractory. A. Rigby and R. A. Green. Brick & Clay Rec 101:48, 50+ O '42

Summaries of Institution communications; 32d report of the Refractory materials joint committee. Gas J (Lond) 237:354+ Mr 11 '42

Technical progress paces victory march. Steel 110:278+ Ja 5 '42

Work of the Gas research board. Engineering 153:224, 275 Mr 20, Ap 3 '42

See also

Cyanite

Fire brick

Silica brick

Analysis

Chemical analysis of ferrous alloys and foundry materials; modern practice and theory. E. C. Pigott. 362p bibliog(p343-4) 28s Chapman & Hall, London '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; microstructure of used roof bricks. W. Hugill. bibliog Iron & Steel Inst J 144:250-8, pl 26-8 no 2 '41

Bibliography

Ceramic abstracts. Published in monthly numbers of American ceramic society Ceramic abstracts and Bulletin

Manufacture

Catalytic mullitization of kaolinite by metallic oxide. C. W. Parmelee and A. R. Rodriguez. bibliog il Am Cer Soc J 25:1-10 Ja '42

Handling system; uses shovel-scoop trucks and pallets moved by fork truck; Harbison-Walker refractories co. il Steel 109:76+ D 8 '41

Magnesite to be manufactured on New Jersey coast. Blast F & Steel Pl 29:1252 D '41

Stokers have many advantages for high temperature burns. il Brick & Clay Rec 101: 38, 40 Jl '42

See also

Magnesite

Prices

Refractories prices. Published in weekly numbers of Iron age

Slag attack

Survey of literature on slag tests for refractory materials. T. L. Hurst and E. B. Read. Am Cer Soc J 25:283-94 bibliog(166 titles, p290-4) Jl 1 '42

Testing

Apparatus for measuring thermal conductivity of refractories. C. L. Norton, jr. bibliog il diags Am Cer Soc J 25:451-9 N 1 '42; Abstract. Brick & Clay Rec 100:42+ My '42

Constitution of the fired clinkers; abstract. J. R. Rait and A. T. Green. Engineering 154:5 Jl 3 '42

Design and operation of an electric load-test furnace. M. S. Nelson and R. R. Ralston. bibliog il diags Am Cer Soc J 25:112-16 F 15 '42

How a steelmaker tests refractories to estimate their service. F. F. Franklin. il Brick & Clay Rec 100:66-8 Ap '42

Preparation of refractory and of coal-ash test cones. R. J. Smith. Am Cer Soc J 25: 282 Je 1 '42

Refractory-corrosion test; abstract. G. R. Pole and A. C. Beinlich, jr. Brick & Clay Rec 100:38-9 My '42

Survey of literature on slag tests for refractory materials. T. L. Hurst and E. B. Read. Am Cer Soc J 25:283-94 Jl 1 '42

Bibliography

Survey of literature on slag tests for refractory materials. T. L. Hurst and E. B. Read. Am Cer Soc J 25:289-94 Jl 1 '42

REFRACTORY research

Electric furnace study of the $MgO\text{-}SiO_2$ system. R. R. Ralston and G. T. Faust. bibliog il diag Am Cer Soc J 25:294-310 Jl 1 '42

Report of American ceramic society committee on research for 1941-1942. Am Cer Soc Bul 21:95 Je 15 '42

Second report on refractory materials; joint refractories research committee of the Iron and steel industrial research council and the British refractories research association. Engineering 154:5 Jl 3 '42

System $CaO\text{-}FeO\text{-}Al_2O_3\text{-}SiO_2$; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

See also

Refractory materials
—Testing

REFRACTORY research—*Continued*

Bibliography

Refractories service conditions in the blast furnace. H. M. Kraner. Am Cer Soc J 25: 318-20 Jl 1 '42; Same. Steel 111:75 Ag 31; 82+ S 7 '42

REFRIGERANTS

Bombing and refrigeration; possible hazards. C. P. McCord. Refrig Eng 44:151-3 S '42

Chemical effects in refrigerating systems. E. W. McGovern. Refrig Eng 43:276-9 My '42

Freon substitutions. F. H. Faust. Refrig Eng 43:149+ Mr '42

Industry committee presents report on Freon refrigerants to the OPM; minimum requires 17 per cent of available carbon tetrachloride. Heating-Piping 14:9-10 Ja '42

Liquid refrigerant distribution to multi-circuit evaporators. F. M. MacDougall. il diags Refrig Eng 43:292-4 My '42

Properties and characteristics of refrigerants. R. J. Thompson. Refrig Eng 44:311-18 N '42

Report of A.S.R.E. conference on refrigerants. Refrig Eng 43:162-4 Mr '42

Some suggestions on the safe use of refrigerants. H. H. Schrenk. U S Bur Mines Information Circ 7199:1-10 '42

What you can use; materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:42 Mr 23; 53 Ap 13; 62 Ap 20 '42

See also

Ammonia
Brine
Carbon dioxide, Solid
Chlorofluoromethanes
Methylene chloride

Physiological effects

Dermatitis occurring among operators of air conditioning equipment. L. Schwartz and J. E. Dunn. Ind Med 11:375-8 Ag '42

Health hazard of refrigerants. F. W. Hutchinson. Heat & Ven 39:21-3 Je '42

REFRIGERATING engineering

Heat transfer of evaporating Freon. C. M. Ashley. diags Refrig Eng 43:89-93; Discussion. 93-5 F '42

Multiple systems or individual units? economy of two common methods; with cost data. J. Elliott. Refrig Eng 44:237-40 O '42

Refrigerating engineer; difficulties met in management of refrigerating plant (cont). G. Holman. Power Pl Eng 45:72-4 D '41; 46:78-9+ Ja; 81-3 F '42

See also

Cold storage
Cooling
Refrigerating plants
Refrigeration and refrigerating machinery

REFRIGERATING engineers

Procedure for men seeking refrigeration service in U.S. Army engineers. Refrig Eng 44: 309 N '42

REFRIGERATING industries

All industry conference of the air conditioning and refrigeration industry. Heating-Piping 14:355-6 Je '42

Ammonia producers battle for the refrigeration industry. R. J. Quinn. Refrig Eng 44: 82 Ag '42

Coding chart for air conditioning and refrigeration applications. Refrig Eng 43:353 Je '42; Same. Heating-Piping 14:351 Je '42

Curb air conditioning, commercial refrigeration. Elec W News ed 118:1190 O 10 '42

Industry committee presents report on Freon refrigerants to the OPM; minimum requires 17 per cent of available carbon tetrachloride. Heating-Piping 14:9-10 Ja '42

J. M. Fernald heads commercial refrigeration and air conditioning in WPB reorganization. Refrig Eng 43:204 Ap '42

Many refrigeration firms producing ordnance. Refrig Eng 44:87-8 Ag '42

1941 stands out. D. L. Fiske. Refrig Eng 42:361-4 D '41

Refrigeration and air conditioning industry victory program; abstract. W. R. Hainsworth. Refrig Eng 43:347-8 Je '42

Refrigeration and defense business; analysis of the war load carried by the industry in 1941 and 1942. D. L. Fiske. Refrig Eng 43:71-2+ F '42

Refrigeration essential to victory. H. H. Peffer. il Refrig Eng 44:77-9 Ag '42

Refrigeration in the future. A. B. Chamberlain. Refrig Eng 44:298 N '42

Refrigeration jobber under war conditions. C. E. Borden. Refrig Eng 43:203-4 Ap '42

Refrigeration needs voice to represent entire industry. C. R. Logan. Refrig Eng 42:368 D '41

Relationship of the refrigeration industry with the War production board. J. M. Fernald. Refrig Eng 43:341-2+ Je '42

Sales problems in the emergency. W. E. Landmesser. Refrig Eng 43:12-14 Ja '42

Victory program committee pushes conservation plan. Refrig Eng 44:76 Ag '42

See also

Air conditioning industries
Cold storage
Cold storage lockers
Cooling
Refrigerators

Directories

Refrigeration and air conditioning directory; international edition, 1942. 206p pa $1 Business news pub. co, 5229 Cass av, Detroit '42

Great Britain

Refrigeration in wartime England. T. Raymond. il Refrig Eng 44:80-1 Ag '42

Philadelphia

Philadelphia as a refrigeration center; a survey of leading companies. il Refrig Eng 44: 294-7 N '42

REFRIGERATING plants

Is your refrigerating equipment too small? R. T. Brizzolara. il Food Ind 14:59+ Jl '42

Refrigerator buildings flown by plane to Pan American tropical bases. il Refrig Eng 44: 260 O '42

Spain's new refrigeration plant. For Comm W 9:23 O 10 '42

See also

Cold storage
Cold storage warehouses
Electric driving—Refrigerating plants
Ice plants
Piping (refrigerating plants)
Water supply for refrigerating plants

Accidents

Refrigeration system accident. il Locomotive 44:75-6 Jl '42

Corrosion

Scale and corrosion control in water and brine systems. J. A. Holmes. il Refrig Eng 43:145-8+ Mr '42

Safety measures

Instructions for pumping out ammonia systems in case of air raids. Refrig Eng 43: 165 Mr '42

REFRIGERATION and refrigerating machinery

Air movement in refrigeration. H. C. Hoover. il diags Refrig Eng 43:283-6 My '42

Audels Answers on refrigeration, ice making and air conditioning; a practical treatise. G. Harris and others. 646p, p5423-50, 106p $2 Theo. Audel & co, New York '41

Bellows in the refrigeration industry. W. L. Chandler. il diag Refrig Eng 42:297-9, 381-2+ N-D '41

Chemical effects in refrigerating systems. E. W. McGovern. Refrig Eng 43:276-9 My '42

Code for pressure piping; refrigeration piping systems. A. B. Stickney. il Heating-Piping 14:217-19 Ap '42

Commercial compressors; their design and development. W. W. Higham. il Refrig Eng 43:351-3 Je '42

Conservation of refrigeration during wartime. A. W. Ewell. Refrig Eng 44:157 S '42

Doubles refrigerating capacity by draining ammonia lines. E. G. Applegate. diags Food Ind 14:64-5+ Ja '42

Dry compression in refrigerating plants. il Engineering 153:506-8 Je 26 '42

REFRIGERATION and refrigerating machinery *—Continued*

Drying air by refrigeration. diag Power Pl Eng 46:101-2 O '42

Evaporative condensers. C. N. Deverall. flow diag diags Refrig Eng 43:295-300, 361-5 My-Je '42

Explanation of L-38. Heat & Ven 39:54-5 Jl '42

Farm freezing plant. W. H. Martin and F. E. Price. (Agric. exp. sta. bul. 399) 19p Oregon state college, Corvallis '41

Farm milk cooling important in war-time program. R. Markley, jr. il diags Refrig Eng 43:154-6 Mr '42

Fiberglas insulation in the low-temperature field. J. B. Schneller. il diags Refrig Eng 43:280-2 My '42

Functional uses of air conditioning and refrigeration as related to the war effort. Heating-Piping 14:613-14 O '42

Heat in theory and practice essential to refrigeration and air conditioning. S. R. Cook. 228p $2 Nickerson & Collins co, Chicago '41

History of the centrifugal refrigeration machine. W. A. Grant. diags Refrig Eng 43:82-6+ F '42

Ideal terminal plant for handling dairy products. M. Bridston. il Refrig Eng 43:48+ Ja '42

If the brine pump stops? effect on ice machine. Power Pl Eng 46:96+ Ag '42

Industrial production processes to which refrigeration is essential. L. L. Lewis. Refrig Eng 44:83-5 Ag '42

Liquid refrigerant distribution to multi-circuit evaporators. F. M. MacDougall. il diags Refrig Eng 43:292-4 My '42

Natural humidity control. F. S. Graham. diags Power Pl Eng 46:112, 114+ O; 73-7 D '42

New brine system boosts rink profits; Pasadena skating rink. O. H. Barnhill. il diag Power Pl Eng 45:63-4 D '41

New demands for low temperature refrigeration. C. Leech. Refrig Eng 44:305-7 N '42

1941 reports of A.S.R.E. technical committees. bibliog Refrig Eng 44:240-3+ O '42

Recent developments in large ammonia absorption systems. R. L. Jones and J. R. Chamberlain. flow diag il Refrig Eng 43:25-31 Ja '42

Recovery of benzole by refrigeration. A. Allen. diag Gas J (Lond) 238:369-70; Discussion. 370+ Je 3 '42

Refrigerating machinery design and the war. G. W. Meek. Refrig Eng 43:359-60 Je '42

Refrigeration. W. V. Evans. diag J Chem Educ 19:539-44 N '42

Refrigeration don'ts. O. W. Malarkey. il Power Pl Eng 46:94-5 N '42

Refrigeration in wartime England. T. Raymond. il Refrig Eng 44:80-1 Ag '42

Refrigeration of bananas. V. W. Ridley. Refrig Eng 43:1-4 sec 2 Ja '42

Refrigeration requirements affect design of water cooling equipment. L. T. Mart. il Refrig Eng 42:365-8; 43:17-21 D '41-Ja '42

Refrigeration service manual. 114p pa $2.50 Brunner mfg. co, Utica, N.Y.

Refrigeration theory and applications. H. G. Venemann. 264p $3.50 Nickerson & Collins co, Chicago '42

Review of power and mechanical equipment; heating, ventilating, refrigeration and air conditioning. il diags Power 85:946-9 Mid-D '41

Somerville packing company. il Heat & Ven 39:84-5 Ja '42

Thermodynamics of deep refrigeration. R. C. H. Heck. Mech Eng 64:473-6+ Je '42

Two-stage automatically operated refrigerating plant. diag Power Pl Eng 46:95 F '42

Variable capacity radial compressors. C. R. Neeson. il diags Refrig Eng 43:73-6, 150-3+ F-Mr '42

War means your refrigerating system must produce more cold. T. Mitchell. il diags Power 86:796-9 N '42

See also

Ammonia compressors
Car cooling
Carbon dioxide, Solid
Cold storage
Compressors
Cooling
Cooling of water
Electricity in air conditioning
Electricity in refrigeration
Evaporators
Freezing
Gas in air conditioning
Gas in refrigeration
Insulation (heat)
Refrigerants
Refrigerating plants
Refrigeration on cars, trucks, etc.
Refrigerator cars
Refrigerators
Skating rinks
Temperature, Low

Bibliography

1941 report of A.S.R.E. committee no. 10; agricultural products refrigeration. Refrig Eng 44:240-2 O '42

Control

Automatic capacity control. W. L. McGrath. diags Refrig Eng 43:1-5 sec 2 Mr; 1-6 sec 2 Ap '42

Expansion valves. F. Y. Carter. diags Refrig Eng 42:369-71+ D '41

Selection and application of thermostatic expansion valves for low temperature installations. R. S. Dawson. diags Refrig Eng 44:222-4 O '42

Cost

Multiple systems or individual units? economy of two common methods. J. Elliott. Refrig Eng 44:237-40 O '42

Lubrication

Mineral lubricating oils; derivation, production and properties; use in refrigerating system compressors. E. S. Ross. Refrig Eng 44:27-33 Jl '42

Maintenance and repair

Conservation plan for refrigerating engineers. Power Pl Eng 46:97 S '42

Maintenance of equipment vital factor in war period. R. U. Berry. il Refrig Eng 43:271-2 My '42

Pointers on how to conserve equipment. T. Mitchell. Heat & Ven 39:35-6 My '42

Quick purging system. M. A. Radamaker. diag Power Pl Eng 46:90 Mr '42

Materials

Alternate materials; their availability and practicability. L. R. St. Onge il Refrig Eng 44:291-3 N '42

Material substitutions; York ice machinery corporation. F. J. Allen. il Mech Eng 64:32 Ja '42

Metals for sub-zero temperatures. L. H. Carr. il Refrig Eng 43:209-11 Ap '42

New materials ingeniously applied in refrigeration. Refrig Eng 44:92 Ag '42

Specifications for mineral wool in low temperature installations. diags Refrig Eng 43:287-91 My '42

Patents

Balance loader system. S. C. Segal. diags Refrig Eng 44:166-70 S '42

Power

Drives for refrigerating plants. L. Macrow. il Power Pl Eng 46:64-7 S '42

Multiple systems or individual units? economy of two common methods; with cost data. J. Elliott. Refrig Eng 44:237-40 O '42

Safety measures

Safety code for mechanical refrigeration. D. E. Perham. Refrig Eng 43:225 Ap '42

Some suggestions on the safe use of refrigerants. H. H. Schrenk. U S Bur Mines Information Circ 7199:1-10 '42

Speedy removal of liquid ammonia in case of accident to refrigerating equipment. diags Power 86:431-3+ Je '42

Standards

A.S.R.E. standards procedure. Refrig Eng 44:200A-200B S '42

Proposed A.S.R.E. methods of rating and testing complete can-type milk coolers; revised draft; A.S.R.E. circular no.21-42. Refrig Eng 44:insert 1-4 [348a+] N '42 [ptd separately 15c]

REFRIGERATION and refrigerating machinery —Standards—*Continued*

Proposed A.S.R.E. standard methods of rating and testing forced-circulation air coolers for commercial and industrial refrigeration; A.S.R.E. circular no. 25. Refrig Eng 43:insert 400g-400j Je '42 [ptd separately 15c]

Proposed A.S.R.E. standard methods of rating and testing refrigerant compressors; A.S.R.E. circular no. 23. Refrig Eng 43: insert 1-14 [324g+] My '42 [ptd separately 20c]

Proposed A.S.R.E. standard methods of rating and testing water and brine coolers; A.S.R.E. circular no. 24. Refrig Eng 43: insert 400a-400e Je '42 [ptd separately 15c]

Proposed A.S.R.E. standard methods of rating and testing water-cooled refrigerant condensers; A.S.R.E. circular no. 22. Refrig Eng 43:insert 324a-324f My '42 [ptd separately 15c]

Symposium on standardization as it affects refrigeration. Refrig Eng 43:223-6 Ap '42

Tentative A.S.R.E. standard methods of rating and testing forced-circulation air coolers for commercial and industrial refrigeration; A.S.R.E. circular no.25-42. Refrig Eng 44:insert 1-4 [56a+] Jl '42 [ptd separately 15c]

Storage systems

Southern church air conditioned by ice storage system. G. H. Watson. il Heat & Ven 38:57-9 N '41

Storage of refrigeration a method of increasing air conditioning capacity. C. J. Otterholm. Heating-Piping 14:231 Ap '42

Storage refrigeration provides air conditioning for mortuaries. il Refrig Eng 42:404+ D '41

Use of cold accumulators in the air conditioning field. R. W. Evans and C. J. Otterholm. diags Heating-Piping 13:582-90 S '41; Discussion. 14:205-7 Mr '42

Tables, calculations, etc.

Refrigeration for drinking water cooling systems. J. F. Kern. Refrig Eng 43:1-8 sec 2 F '42

Sizing Freon refrigerant lines; reference data. Heat & Ven 39:55a-55b Mr; 66a-66b Ap; 50a-50b My '42

Testing

Rapid and accurate measurement of refrigerating capacity with secondary-refrigerant calorimeter and direct-reading Btu meter. H. F. Lathrop. il Gen Elec R 45:403-6 Jl '42

REFRIGERATION on cars, trucks, etc.

Application of plate type evaporators to truck bodies. A. F. Sawyer. il Refrig Eng 43: 349-50 Je '42

Below-zero truck has handy compartments. il diags Food Ind 13:70-1 D '41

Big refrigerated trucks hold zero temperatures for frozen foods. il Refrig Eng 42:408 D '41

Dry-ice containers secure new traffic. il Ry Age 111:799-800 N 15 '41

Frisco uses portable refrigerator containers. il Ry Age 112:618 Mr 21 '42

Mechanical system proves efficient for refrigerating trucks. il diag Food Ind 14:70-1 Ja '42

Mechanized ice-salt system refrigerates Armour trucks. il diag Food Ind 14:62-3 F '42

1941 reports from members of A.S.R.E. committee no. 12; refrigerated transport. Refrig Eng 44:243+ O '42

Refrigerated containers for express shipments. il Sci Am 166:287 Je '42

Refrigerated containers meet a vital war need; transportation of blood plasma. il Ry Age 113:275-6 Ag 15 '42

See also
Refrigerator cars

REFRIGERATION on ships

Lard-cooled ships; fats as insulation for perishable foods makes refrigeration unnecessary. Business Week p54 N 29 '41

Recent changes in shipbuilding design; installation of refrigerating machinery and insulated cargo spaces in smaller tramp freighter. A. T. Nickson. Refrig Eng 44:310 N '42

Refrigeration equipment for merchant ships. A. C. Rohn and J. H. Clarke. il diag plans Refrig Eng 44:10-16; Discussion. 16, 48-50 Jl '42

Ship refrigeration necessary in war service. Marine Eng 47:123 My '42

REFRIGERATOR cars

New fabrication methods for refrigerator cars. M. E. Bridston. il Refrig Eng 43: 143-4 Mr '42

Refrigerator car pool inaugurated. Ry Age 113:378 S 5 '42

REFRIGERATOR trays

Frozen dozen; ethyl cellulose refrigerator tray. il Mod Plastics 19:49 Ap '42

REFRIGERATORS

California car dealers sell ice refrigeration. Am Business 12:25 Jl '42

Cease making refrigerators April 30; prices, stocks frozen. Cer Ind 38:23 Mr '42

Icemen's shivers; OPM slash in production of nonmechanical refrigerators. Business Week p50-2 N 29 '41

New orders governing refrigerator production and trade. For Comm W 6:22 Mr 14 '42

Planning postwar applications of plastics. C. Sundberg and M. Ferar. il diag Mod Plastics 19:52-3+ Ag '42

Reduction in Canadian output ordered. For Comm W 5:11 N 22 '41

Refrigerator stockpile held to essential needs. il Elec W 117:1879 My 30 '42

Revolving cylindrical refrigerator; diagrams. Arch Forum 77:107 S '42

Manufacture

Helped ourselves to war work; Fogel refrigerator company, Philadelphia. W. Fogel. Factory Management 100:99 S '42

REFRIGERATORS, Electric

Good use for old refrigerators; air compressor for spray painting. A. Knox. Power Pl Eng 46:114 My '42

Plastics competition award to Philco corp. il Mod Plastics 19:94-5 N '41

Refrigerator stockpile held to essential needs. il Elec W 117:1879 My 30 '42

Manufacture

Automatically welded seal; electric refrigerator compressor. il Steel 110:94+ Mr 9 '42

Evaporator assemblies; resistance welded at high speed. il diag Steel 110:96+ Ap 13 '42

Plastics as industrial materials. G. C. Gress. il Refrig Eng 43:7-11+ Ja '42

Refrigerator task; produce full blast for ten weeks, then convert for war output. Business Week p14 F 21 '42

Merchandizing

Electrical West business guide. Elec West 88:47-50 My '42

100,000 refrigerators released by government. Elec W News ed 118:854 S 12 '42

REFRIGERATORS, Gas

Gas range and refrigerator production established under O.P.M. orders. Am Gas Assn Mo 24:26 Ja '42

REFUGEES

Flight to freedom. B. Padowicz. 257p $2.75 Duell, Sloan & Pearce, New York '42

Liberalizes freezing control restrictions. Comm & Fin Chr 155:943 Mr 5 '42

No retreat. A. Rauschning. 309p $2.75 Bobbs '42

Refugee and the war. G. L. Warren. Ann Am Acad 223:92-9 S '42

Refugee problem in wartime. Int Labour R 46:487-9 O '42

Refugees at work. S. M. Robison, comp. 83p pa $1.50 Columbia univ. press '42

REFUNDING of bonds. See Bonds—Refunding

REFUSE, Utilization of

Gold in city dump; recovery of strategic tin by mining of Los Angeles accumulation. Business Week p57-9 Ja 31 '42

REFUSE, Utilization of—*Continued*

Recovery of war scrap metal nets Pittsburgh a handsome profit; screens installed in incinerator plant. D. C. Agar. il diag Pub Works 73:11-13 My '42

REFUSE as fertilizer

Sludge and refuse as national assets in war and peace. C. C. J. Bullough. Engineering 153:445 Je 5 '42

Sludge and refuse as national assets in war and peace. C. C. J. Bullough. Engineer 173:395-6 My 8 '42

REFUSE collection

Collection and disposal of ashes and trash by lower Merion township; methods and costs. W. E. Rosengarten. il Pub Works 73:19-21+ Mr '42

Municipal, contract, or private collection of refuse. 33p pa 50c Am. public works assn, Chicago '41

Refuse collection practice. 659p bibliog(p629-36) $5 Am. public works assn, 1313 E. 60th st, Chicago '41

Street cleaning and refuse collection and disposal in nine cities of the United States, 1938-1941. C. A. Howland. 148p Bur. of municipal research, 905 Social service bldg, 311 S. Juniper st, Philadelphia '42

Cost

Time clocks check refuse collection; abstract. G. M. Bowers. Pub Works 73:28 S '42

Finance

Financing refuse collection operations. 34p pa 50c Am. public works assn, Chicago '41

REFUSE disposal

Collection and disposal of ashes and trash by lower Merion township; methods and costs. W. E. Rosengarten. il Pub Works 73:19-21+ Mr '42

Load-bearing characteristics of landfills. R. Eliassen. il diag Eng N 129:369-71 S 10 '42

Protective and remedial measures for sanitary and public health engineering services; progress report of the national committee of the Society, on civilian protection in war time. Am Soc C E Proc 68: 126-30 Ja '42

Sanitary land fills in New York city. R. Eliassen and A. J. Lizee. il Civil Eng 12:483-6 S '42

Street cleaning and refuse collection and disposal in nine cities of the United States, 1938-1941. C. A. Howland. 148p Bur. of municipal research, 905 Social service bldg, 311 S. Juniper st, Philadelphia '42

War conditions favor landfill refuse disposal. R. Eliassen. il Eng N 128:912-14 Je 4 '42

See also

Refuse collection
Refuse incinerators
Sewage disposal
Sewage disposal—Sludge and refuse mixing
Trade waste
Water pollution

Cost

War scrap salvage cuts refuse disposal costs, Highland Park, Mich. Eng N 129:549 O 22 '42

REFUSE incinerators

Collection and disposal of ashes and trash by lower Merion township; methods and costs. W. E. Rosengarten. il Pub Works 73:21 Mr '42

Monohearth refuse incinerator. diags Water & Sewage 80:32+ Jl '42

REGENSTEINER, Theodore, 1868-

Regensteiner career an inspiration to all in graphic arts; pioneered color printing in this country. A. G. Fegert. por Inland Ptr 108:35-8 F '42

REGIONAL planning

Alaska development plan. 94p Alaska planning council, Juneau, Alaska '41

American planning and civic annual. H. James, ed. 292p $3 Am. planning and civic assn, 901 Union trust bldg, Washington, D.C. '41

Britain must rebuild; a pattern for planning. F. Pick. 64p 55c; to libraries 50c Universal distributors co, New York '41

From plan to reality, three. $1.50 Regional plan assn, 400 Madison av, New York '42

Industry and town planning. R. Pumphrey. 36p bibliog(p36) 1s Faber & Faber, London '41

Local planning activity in the United States. 22p pa 25c Bur. of urban research, Princeton univ, Princeton, N.J. '41

National conference on planning; proceedings of the conference held at Indianapolis, Ind., May 25-27, 1942. 228p $2.50 Am. soc. of planning officials, 1313 E. 60th st, Chicago '42

Overture to planning. F. J. Osborn. 29p pa 1s Faber & Faber, London '41

Planning for the anthracite area; from report of Federal anthracite commission. map Min & Met 23:338 Je '42

Post-war Britain. C. H. Reilly. Arch Forum 76:sup64+ Mr '42

Proceedings of the National conference on planning held at Indianapolis, 1942. 228p $2.50 Am. soc. of planning officials, 1313 E. 60th st, Chicago '42

Regional planning in Pennsylvania. R. H. Smith. Elec Eng 61:149-51; Discussion. 151-2 Mr '42

Replanning Britain; being a summarized report of the Oxford conference of the Town and country planning association, spring, 1941. F. E. Towndrow, ed. 173p $2.50 Ryerson press '41

War and the planning outlook. W. A. Robson. 28p pa 1s Faber & Faber, London '41

See also

City planning
Land utilization
Zoning

Bibliography

Bibliography of reports by state and regional planning organizations. 28p U.S. Nat. resources planning board, Washington '41

Bibliography of reports of state, territorial and regional planning agencies. 28p U.S. Nat. resources planning board, Lib, Washington '42

Planning bibliography. 3d ed 13 numb l pa 25c Am. soc. of planning officials, 1313 E. 60th st, Chicago '41

REGIONALISM

Indexes of the terms of trade between areas in the United States. W. C. Waite. R Econ Statis 24:22-30 F '42

REGISTERED mail insurance. See Insurance, Registered mail

REGISTERS (heating and ventilating)

Ceiling outlets for warm-air heating. il Sheet Metal Worker 32:68 N '41

REGISTERS, Autographic

Case history of a register. il diag Mod Plastics 20:71-3+ N '42

Register now made of steel and plastics. il diag Product Eng 13:226-7 Ap '42

REGULATORS

See also

Control equipment
Governors (machinery)
Pressure regulators
Temperature regulators
Voltage regulators

REGULATORY taxation. See Taxation—Regulatory taxation

REHABILITATION. See Disabled—Rehabilitation

REICHOLD chemical company

Largest producer of synthetic resins for lacquers. Barron's 22:23 S 21 '42

REID, Ernest Welcom, 1891-

WPB chemicals branch chief. por Oil Paint & Drug Rep 141:3+ F 23 '42

REIGHARD, Jacob Ellsworth, 1861-1942

Sketch. A. F. Shull. Science 95:344-6 Ap 3 '42

REINER equation. See Rheology

REINFORCED concrete. See Concrete, Reinforced

REINSURANCE. See Insurance—Reinsurance

RELAPSING fever

Ornithodoros parkeri and relapsing fever spirochetes in southern Idaho. G. E. Davis. Pub Health Rep 57:1501-3 O 2 '42

Ornithodoros parkeri and relapsing fever spirochetes in Utah. G. E. Davis. map Pub Health Rep 56:2464-8 D 26 '41

Ornithodoros turicata and relapsing fever spirochetes in New Mexico. G. E. Davis. map Pub Health Rep 56:2258-61 N 21 '41

Relapsing fever; ornithodoros parkeri a vector in California. G. E. Davis, H. L. Wynns and M. D. Beck. Pub Health Rep 56:2426-8 D 19 '41

RELATIVITY (physics)

Comparison spaces in general relativity. W. Band. bibliog Phys R 61:702-7 Je 1 '42

From Copernicus to Einstein. H. Reichenbach. 123p $2 Alliance book corp, New York '42

Introduction to the theory of relativity. P. G. Bergmann. 287p $4.50 Prentice-Hall '42

Is space-time flat? W. Band. bibliog Phys R 61:698-701 Je 1 '42

Matter waves and electricity. C. Lanczos. bibliog Phys R 61:713-20 Je 1 '42

Problem of the rotating disk. C. W. Berenda. bibliog Phys R 62:280-90 S 1 '42

Relativistic universe; abstract. A. Einstein. Science 95:sup10 Ja 2 '42

Some aspects of the electromagnetic field. L. Page. bibliog diags Elec Eng 61:511-16 O '42

See also

Fine structure constant

Quantum theory

RELAYS

Anti-electrolysis relay; protecting gas pipes from stray currents. C. R. Davis and R. M. Wainwright. diag Electronics 15:72 Mr '42

Bounceless ball points way toward improved electrical units. il Sci Am 167:207 N '42

Carrier-current relaying and communication on the TVA system. M. S. Merritt and T. DeW. Talmage. il diags Elec Eng 61:561-72 N '42

Control and regulation of utility-industrial ties. L. F. Stone. diags Elec W 117:1171-3 Ap 4 '42

Correct electrical protection makes interchange safe. diags Power 86:630-2 S '42

Current transformer characteristics for relay operation. C. E. Lamphier. diag Elec W 117:518 F 7 '42

Demand meters, and totalizing relays; measuring nonelectrical as well as electrical quantities. H. M. Witherow and E. J. Boland. il Gen Elec R 45:515-16 S '42

Electric relays; constructional details and notes on the use of magnetic, mercury, thermionic, and photo-electric relays. J. Rosslyn. 184p $2.50 Chemical pub. co. '41

Electrical remote control. C. J. Dorr and L. N. Galton. il Electronics 15:60-4, 173-4 N '42 (to be cont)

High tension distribution. W. A. Mears. Electrician 128:337-43 Ap 10 '42

How to connect controls, meters and relays for 60- and 100-kv. transmission lines; diagram. Elec W 118:322 Jl 25 '42

How to connect controls, meters and relays for station service transformer banks; diagram. Elec W 117:1541 My 2 '42

How to connect controls, meters and relays for three-winding transformer banks; wiring diagram. Elec W 118:966 S 19 '42

How to determine relaying quantities by use of sequence-segregating filters or networks; diagrams. Elec W 117:2088-9 Je 13 '42

Hydraulic relay. D. S. Bayley. diag R Sci Instr 13:300-1 Jl '42

Linear couplers for bus protection. E. L. Harder and others. bibliog il diags Elec Eng 61:Trans 241-8 My '42

Loss-of-field protection for generators. G. C. Crossman, H. F. Lindemuth and R. L. Webb. il diag Elec Eng 61:Trans 261-6 My '42

Management of protective gear on power supply systems. W. Casson and F. H. Birch. il diags Inst E E J 89 pt 2:317-41; Discussion. 341-54 Ag '42

New single-phase-to-ground fault-detecting relay. W. K. Sonnemann. il diags Elec Eng 61:Trans 677-80 S '42

New voltage-regulating relay plus line-drop compensator. H. J. Carlin. diags Elec Eng 61:Trans 63-6 F '42

Novel reclosing relay. P. O. Bobo. il diags Elec Eng 60:Trans 1041-5 D '41

Performance of ground-relayed distribution circuits during faults to ground; data useful in joint use of poles by power and telephone facilities. C. L. Gilkeson, P. A. Jeanne and J. C. Davenport, jr. il Elec Eng 61:Trans 40-8 Ja '42

Progress in relaying. P. MacGahan. Elec Eng 61:106 F '42

Protection of pilot-wire circuits. E. L. Harder and M. A. Bostwick. diags Elec Eng 61: Trans 645-52 S '42

Protective relaying for attended power plants. C. R. Mason. il diag Power Pl Eng 45:77-9+ D '41

Put mechanical relays on vault transformers. diag Elec W 117:668 F 21 '42

Relay aids use of 3-terminal lines. diag Elec W 118:638 Ag 22 '42

Relay contacts; new material for heavy duty; powder metallurgy product silver-nickel Elkonite. H. R. Brooker. il Elec R (Lond) 130:651-2 My 22 '42

Relaying saves buying breakers. diag Elec W 117:1836 My 30 '42

Relays and breakers for high-speed single-pole tripping and reclosing. S. L. Goldsborough and A. W. Hill. diags Elec Eng 61:Trans 77-81 F '42

Relays classified by types to simplify their selection. R. B. Immel. diags Product Eng 13:591-6, 647-52 O-N '42

Relays set for fused banks. V. D. Hollis. Elec W 118:1148 O 3 '42

Reyrolle armature a.c. relays. il Electrician 128:219 Mr 13 '42

Sectional relay panel permits regrouping. J. C. Woods. il diag Elec W 117:842+ Mr 7 '42

Sensitive valve voltmeter relay. S. S. Orlov and A. A. Pirogov. diags Wireless Eng 19: 347-50 Ag '42; Abstract. Electronics 15:102+ N '42

Sequence relay; a device to provide short-time system separation on long period oscillations. C. L. Betts, jr. bibliog diags Edison Elec Inst Bul 10:301-9 Ag '42

Simple photoelectric relay. E. B. Working. diag Science 96:281 S 18 '42

Some problems connected with steam turbine governing. G. W. Higgs-Walker. diags Inst Mech Eng J & Proc 146:Proc 117-25 Ja '42; Discussion. 148:Proc 26-32 N '42

Static relay. W. R. Thistlethwaite. diags Elec R (Lond) 130:167-8 F 6 '42

Streamlined signals supervise large air-conditioning system; Metropolitan life insurance company's new home office building. il diag Power 86:802-4 N '42

System short circuits; calculation of the currents when applying interrupting devices and relays. C. A. Woodrow. Gen Elec R 45: 357-9 Je '42

Temperature coordination of relays and fuses. M. R. Howell. Elec W 118:72-4 Jl 11 '42

Ten years of progress in relaying. Elec Eng 60:590-2 D '41

Throwover and reclosure in simplified combination. A. E. Anderson. diags Elec W 117:1503-4 My 2 '42

Throw-over for protective lighting. diag Elec W 118:1464 O 31 '42

Trick hookup replaces centrifugal switch. A. A. Schulke. Power 86:407-8 Je '42

Testing

Improved time-interval meter for testing protective gear relays. R. W. Langley. diags Electrician 127:249-50 O 31 '41

Low-burden ammeter for relay testing. H. L. Goodridge. Elec W 118:318 Jl 25 '42

Quadruplex checks differential relays; combination of three ammeters and an ohmmeter. J. H. Kinghorn. il diag Elec W 116:1752 N 29 '41

RELAYS, Time limit
Durakool's new BFV type of timer. il Refrig Eng 44:323 N '42
Electronic relays. S. Redfern. bibliog diags Ind & Eng Chem Anal ed 14:64-5 Ja 15 '42; Correction. 14:502 Je 15 '42
Electronic timer. I. C. Bechtold. bibliog diag Ind & Eng Chem Anal ed 14:429-30 My 15 '42
Factors contributing to improving electric service by means of high-speed switching and utilization of stored energy. J. T. Logan and J. H. Miles. il Elec Eng 60: Trans 1012-16 D '41
Londex time delay relay. Electrician 128:193 Mr 6 '42
Relay inverse time characteristic doubled. G. Steeb. diags Elec W 118:1484+ O 31 '42
Time delay relay. R. P. Krebs and H. Kersten. diag R Sci Instr 13:83-4 F '42
Time-delay relays. H. Seymour. diags Electrician 129:142-3 Ag 7 '42
Time delay relays and their characteristics. R. B. Immel. diags Product Eng 13:86-8 F '42
Time relay extends breaker life. diag Elec W 118:326 Jl 25 '42
Timers and time meters; importance in efficient utilization of plant machinery and for control of manufacturing processes. C. H. Ridgley and J. L. Theisen. il diags Gen Elec R 45:569-72 O '42
Voltage-regulating inverse time relay. H. J. Carlin. diag Elec W 118:1308+ O 17 '42

RELEASE (law)
Release and mistake; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7: 30-2 F 19 '42

RELIEF maps
Adding third dimension to aerial photos. V. V. Colby. il diags Eng N 128:426-8 Mr 12 '42

RELIEF work
See also
Red cross
Social work
Unemployment—Relief measures
Work projects administration
World war, 1939—Relief work

RELIGION
Banker on religion. C. Eaton. Fortune 26:40+ S '42
Edge of the abyss. A. Noyes. il Fortune 26: 124-5+ O '42

RELIGION and science
Our moral chaos; can science and religion together establish new moral universals? W. L. Sperry. Fortune 25:102-4, 106, 108 My '42
Science and faith; delivered before the University of Durham at King's college, Newcastle upon Tyne on March 7, 1941. W. Bragg. 24p pa 50c Oxford '42
What man can make of man. W. E. Hocking. 62p $1 Harper '42

RELIGIOUS education
Christian teaching. Economist 142:284 F 28 '42

RELIGIOUS liberty
Lively experiment; John Clarke of Rhode Island. il Fortune 26:84-5 Jl '42

REMEDIES (law)
Act, recommendation and study relating to remedies of land owners for the removal of encroaching structures. 26p Publishers ptg. co, New York '42

REMINGTON RAND, inc.
Brief appraisals of factors influencing market values. H. Lawrence. Barron's 22:13 O 5 '42
Consolidated income account, years ended March 31, 1940-1942. Comm & Fin Chr 156: 85 Jl 6 '42
Favored stocks priced from $1 to $10. Mag of Wall St Manual p10 Ap '42

REMODELED houses. See Houses, Remodeled

REMODELING (architecture)
Remodel research house shows how to aid war effort. il plans Am Bld 64:72-3 Ap '42
Remodeled theater; rebuilt as a studio show window; with construction outline. il plans Arch Forum 76:391-5 Je '42
Remodeling, a wartime mandate; with time-saver standards. il diags plans Arch Rec 91: 37-58 F '42
Store modernizing without metals; with time-saver standards. M. Lapidus. il diags Arch Rec 92:71-8 O '42
Streamline outmoded Union station at Shreveport, La. il plan Ry Age 113:102-6 Jl 18 '42
See also
Apartment houses, Remodeled
Building—Repair and reconstruction
Buildings, Remodeled
Hotels—Remodeling
Houses, Remodeled

REMOTE control. See Electric control

RENIN. See Kidneys

RENT
Housing of federal employees in the Washington (D.C.) area in May 1941. J. Cornfield and M. Weber. Monthly Labor R 53:1224-37 N '41
Municipal news; rent schedules in public housing projects. Comm & Fin Chr 156: 1624 N 5 '42
Percentage increase, January 1942 from June 1940, of average rents in large cities and selected defense areas; chart. Survey of Cur Business 22:2 Ap '42
Problems of determining fair rents. K. Borders. Am Statis Assn J 37:34-40 Mr '42
Rent ceiling row. Business Week p19-20 S 19 '42
Rent movements, a national cross-section; tabulation. Business Week p26 F 21 '42; Correction. p28+ Mr 7 '42
That rent spiral; tabulation of changes by states. Business Week p24, 26+ N 22 '41
See also
Real estate business

Bibliography

Rent regulation in the United States. M. B. Devitt, comp. 21 numb l Federal housing administration, Federal loan agency, Washington, D.C. '41

Laws and regulations

All rents frozen at March 1 levels. Comm & Fin Chr 156:1359 O 15 '42
Broader rent lid control will soon extend to all metropolitan areas except New York. Business Week p18-19 O 17 '42
Byrnes acts to stabilize commercial rentals. Comm & Fin Chr 156:1444 O 22 '42
Control of rents in Australia. Economist 141: 721 D 13 '41
District of Columbia rent-control law. Monthly Labor R 54:145-8 Ja '42
Fair rent dates; twenty areas get notice. Business Week p17 Mr 7 '42
Government rent control, dwelling registration ordered for defense areas by OPA. Comm & Fin Chr 155:1779 My 7 '42
Guide to rents; OPA's enforcement of ceilings in defense areas. Business Week p29-30+ Jl 4 '42
House approves new rent control bill. Comm & Fin Chr 156:1638 N 5 '42
Inflation and rents. S. O. Dunn. Am Bld 64:9 Ag '42
Maximum rentals in Canada after December 1, 1941. Monthly Labor R 54:461 F '42
More rents frozen. Comm & Fin Chr 156:817 S 3 '42
Mortgage bankers urged to aid OPA rent control. F. P. Champ. Comm & Fin Chr 156:817 S 3 '42
OPA acts to curb rents. Comm & Fin Chr 155:965 Mr 5 '42
OPA establishes price ceilings extending to virtually all commodities and rents. Comm & Fin Chr 155:1705+ Ap 30 '42
OPA extends rent control. Comm & Fin Chr 156:1185, 1554 O 1, 29 '42
OPA orders rent cuts in defense areas. Comm & Fin Chr 156:109, 367 Jl 9, 30 '42
Real estate boards study rent control. Comm & Fin Chr 156:276 Jl 23 '42
Realtors ask date change in rent control order. Comm & Fin Chr 155:1781 My 7 '42
Refrigerated rents. Arch Forum 76:sup44+ Je '42

RENT—Laws and regulations—*Continued*

Regulation of rents. Monthly Labor R 54:1339-40 Je '42

Rehabilitation basis for rent increase. Am Bld 64:14+ S '42

Rent ceilings; how the law is expected to work. Business Week p24+ F 21 '42

Rent control. Arch Forum 76:140+ Mr '42

Rent control. J. C. Downs, jr. J Land & Pub Util Econ 17:406-9 N '41

Rent control. E. M. Fisher. Banking 35:105 S '42; Excerpts. Bankers M 145:351 O '42

Rent control conference. Comm & Fin Chr 155:1634 Ap 23 '42

Rent control rumpus. Arch Forum 77:184+ S '42

Rent control situation. F. P. Champ. Comm & Fin Chr 154:1336 D 4 '41

Standstill on rent. map Business Week p50, 52+ My 9 '42

Suggested measures for rent control. Monthly Labor R 53:1488-9 D '41

To halt evictions and unwarranted house sales. Comm & Fin Chr 156:1556 O 29 '42

Washington, D.C., adopts rent control measure. Comm & Fin Chr 155:112 Ja 8 '42

RENT insurance. See Insurance, Rent

REO motors, incorporated

Listing of voting trust certificates. Comm & Fin Chr 154:1703 D 27 '41

REORGANIZATION. See Corporations—Reorganization

REPAIR parts

Welded scrap; substitute for replacement parts. C. M. Taylor. il Steel 110:60-1 Ap 27 '42

REPAIR shops

Standard of Louisiana has complete shop for maintenance. P. Reed. il Oil & Gas J 41:178+ S 24 '42

See also

Car shops
Locomotive shops
Motor bus lines—Shops
Radio service shops
Railroads—Shops

REPAIR shops, Portable

Mobile workshop for the L.M.S. railway. il Engineering 152:417 N 21 '41

REPAIRING

War-time guide book; in two parts: Make it yourself; Fix it yourself. 250p, 260p $1.98 Grosset & Dunlap, New York '42

See also subdivision Maintenance and repair and Repair under various subjects, e.g.

Agricultural machinery—Repair
Factories—Maintenance and repair
Gas compressors—Repair
Locomotives—Repair
Motor bus lines—Maintenance and repair

REPLACEMENT of machinery. See Machinery, Replacement of

REPORTING

Complete reporter; a general text in news writing and editing, complete with exercises. S. Johnson and J. Harriss. 424p bibliog(p413-16) $3 Macmillan '42

Reporting the Washington news. R. Wilson. Ann Am Acad 219:127-31 Ja '42

See also

Newspapers

REPORTS

See also

Accountants' reports
Business—Reports to government
Corporations—Reports and yearbooks
Salesmen's reports

Preparation

Report writing. C. G. Gaum, H. F. Graves and L. S. S. Hoffman. rev ed 332p bibliog (p284-305) $2.75 Prentice-Hall '42

REPORTS, Engineering. See Engineering reports

REPORTS to employees. See Employees, Reports to

REPORTS to government. See Business—Reports to government

REPRESSURING. See Petroleum—Production methods

REPRINTS

Literature crashes mass market; Pocket-BOOKS, inc. has used over-the-counter merchandising methods. il Ptr Ink 200:59-60 Jl 17 '42

Little-book battle; de Graff cheap reprints. Business Week p28 Ja 10 '42

Bibliography

Catalog of reprints in series, 1941. R. M. Orton, comp. 284p $3.50 Wilson, H.W. '42

Catalog of reprints in series; supplement, June 1942. R. M. Orton, comp. 98p Wilson, H.W. '42

REPRODUCTION

See also

Birth rate
Evolution

REPTILES, Fossil

See also

Ichthyosauria

REPUBLIC drill and tool company

Common stock offered. Comm & Fin Chr 156:260 Jl 20 '42

Preferred stock offered. Comm & Fin Chr 155:1317 Mr 30 '42

REPUBLIC steel corporation

Annual report. Comm & Fin Chr 155:1218-19 Mr 23 '42

Earnings, 1941. Comm & Fin Chr 155:641 F 10 '42

Favored stocks from $10 to $25. Mag of Wall St Manual p15 Ap '42

Republic's valley plants win flags. il Steel 111:51 S 28 '42

Thumbnail stock appraisal. Mag of Wall St 69:323 D 27 '41

Wickware Spencer steel co. directors decline offer of purchase of assets. Comm & Fin Chr 154:1154 N 22 '41

REPUBLICAN party

New York and the next president; control of both major parties in 1944 is at stake in battle for governorship. il Fortune 26:84-7+ S '42

REQUISITIONING

All tools seizable. Business Week p34 D 20 '41

Dutch issue decree on ship requisitioning. Weekly Underw 147:969, 971-2 O 24 '42

Government takes over sea-going cargo vessels. Weekly Underw 146:955 Ap 25 '42

Insurance men study royal decree regarding requisitioning of Netherlands fleet. Weekly Underw 147:275-6 Ag 8 '42

Large quantities of critical war materials requisitioned by WPB unit. Steel 110:52 Ap 13 '42

Orphaned stocks; recovering goods and materials stranded by closing of markets or by curtailment orders. Business Week p36 Mr 28 '42

President gives WPB right to seize plant machines. Comm & Fin Chr 155:1720 Ap 30 '42

President reports on impressing property. Comm & Fin Chr 156:1720 N 12 '42

WPB inventory unit files over-all report. Oil Paint & Drug Rep 141:4+ Ap 13 '42

War yachts for coastal defense, etc.; government taking over private craft. il Marine Eng 47:139+ Ag '42

RESEARCH

Elements of research. F. L. Whitney. rev ed 497p bibliog(p453-74) $3.75 Prentice-Hall '42

Manual of research and thesis-writing for graduate students. 80p bibliog(p75-80) pa $1 Howard univ, Graduate school, Washington, D.C. '41

Present status of research work under the auspices of the War production board. Science 96:104-5 Jl 31 '42

Research for flood control data; guide to printed material. G. E. Larson. il map Civil Eng 12:131-4 Mr '42

Research in defense and post-war reconstruction. Bankers M 143:541-2 D '41

RESEARCH—*Continued*

Tasks before us. W. F. Rudd. Science 95: 422-5 Ap 24 '42

See also

Advertising research
Aeronautic research
Agricultural research
Business research
Cement research
Ceramic research
Chemical research
Coal research
Colleges and universities—Research
Corrosion research
Electric research
Engineering research
Highway research
Industrial research
Insurance research
Laboratories
Libraries and research
Market research
Metallurgical research
National research council
National research council of Canada, Ottawa
Paint research
Paper research
Railroad research
Rubber research
Scientific research
Social research
Steel research
Textile research

RESEARCH advisory service

Technological clearinghouse. Fortune 25:20 Je '42

RESEARCH workers

Who is the research man? J. Mills. Tech R 44:451-2+ Jl '42

See also

Laboratory workers

RESERVES

Accounting for special reserves arising out of the war. J Account 73:155-9 F '42; Excerpt. Management R 31:177-8 My '42

Balance-sheet of Cities service company and others. J Account 73:546-7 Je '42

Blueprint for freedom. E. E. Wilson. Trusts & Estates 74:466-7 My '42

Commercial credit analysis; bad debt losses and reserves. E. F. Gee. Credit & Fin Management 43:16-19 D '41

Current practice in accounting for special war reserves; based upon examination of reports of 429 industrial companies, published in 1942. J Account 74:125-32 Ag '42

Difficulties of measuring profits in a wartime economy. W. A. Staub. il Dun's R 50:5-10+ Jl '42

Door to economic freedom; essential ingredient of democracy is assurance of the safety of invested savings. W. von Tresckow. Barron's 22:3 Ag 3 '42; Excerpt (Reserves for technological change). Trusts & Estates 75:174-5 Ag '42

Need for post-war reserves. Nat City Bank p93-5 Ag '42; Abstract. Trusts & Estates 75:125-6 Ag '42

Post-war severance funds. Business Week p87 Mr 21 '42

Reserves will cushion higher taxes. H. Lawrence. Barron's 22:5 Mr 23 '42

Should your company reduce its dividend? L. O. Hooper. Mag of Wall St 70:554-6+ S 5 '42

Special reserves. J Account 73:468 My '42

Special reserves to care for extraordinary costs and losses. J Account 73:360-1 Ap '42

Tip to controllers; Institute warns of need for reserves to meet postwar problems. Business Week p63-4 Ja 24 '42

War and accounting procedures. G. O. May. J Account 73:393-400 My '42

War profits and conversion reserves for return to peace time operation. S. Frank. J Account 74:353-4 O '42

See also

Bank reserves
Insurance, Life—Reserves

RESERVOIRS

Analyzing flow from multiple reservoirs by the Hardy Cross method. J. F. Muir. diags Eng N 128:408-9 Mr 12 '42

Charts solve multiple-reservoir problem. J. A. Novoro. Eng N 129:300-1 Ag 27 '42

Clearing the Grand Coulee reservoir. il Power Pl Eng 46:54-6 F '42; Same. Pub Works 73:28, 30 Ap '42

Copper sulfate dispersion and settlement. H. C. Medbery. Am Water Works Assn J 34: 735-6 My '42

Flood control for the Yazoo valley, Miss. G. A. Morris. il maps Civil Eng 12:243-6 My '42

Geologic interpretation of the failure of the Cedar reservoir, Washington. J. H. Mackin. (Eng. exp. sta. bul. 107) 30p pa 25c Univ. of Washington, Seattle '41

Limnological observations on San Francisco reservoirs. H. C. Medbery. Am Water Works Assn J 34:719-35 My '42

Locating and stopping a leak in a water works dam. H. L. Field and C. I. Sterling, jr. il Water Works & Sewerage 88:553-4 D '41

Manganese in deep reservoirs. E. S. Hopkins and G. B. McCall. bibliog il Ind & Eng Chem 33:1491-5 D '41

Operation experiences, Tygart reservoir. R. M. Morris and T. L. Reilly. il diag map Am Soc C E Proc 67:569-93 Ap '41; Discussion. 67:1465-8; 68:161-3 O '41; Ja '42

Reservoirs and water tanks; discussion. Water & Sewage 80:83-4 Ap '42

Ridding reservoirs of floating logs. Eng N 128:420 Mr 12 '42

Solving reservoir problems with circular point-by-point computer. J. M. Shepley and C. B. Walton. diags Civil Eng 12:154-5 Mr '42

Water conservation in New Hampshire. R. S. Holmgren. N E Water Works Assn J 56:1-7 Mr '42

See also

Dams
Flood control
Irrigation
Water supply
Water supply engineering
Water tanks
Waterworks

Protection

Carbon blackout for preventing algae growths in reservoirs. H. O. Hartung and V. C. Lischer. il Water & Sewage 80:20+ My '42

Improved wire suspension plan keeps sea gulls off reservoir. il Eng N 128:500 Mr 26 '42

Keeping debris out of reservoirs by soil erosion control; East Bay municipal utility district in California. il Eng N 128:980 Je 18 '42

Relation of plants to malaria control, with special reference to impounded waters. W. T. Penfound. Pub Health Rep 57:261-8 F 20 '42

Soil conservation helps to protect water supply; plan for preventing silting of reservoirs. A. Reichstein. map Pub Works 72:33-5 D '41

Standards

Standard specifications for elevated steel water tanks, standpipes and reservoirs. map N E Water Works Assn J 55:sup 1-45 D '41

Weed removal

Under-water weed cutter compressed air driven. il Water Works & Sewerage 89:88 Ap '42

RESERVOIRS, Concrete

Building a three-million-gallon concrete reservoir at Billings, Montana. A. L. Hewett. il Pub Works 73:17-18 Mr '42

Constructing the La Grande reservoir. E. H. Ford. il diags Pub Works 73:19-20 O '42

Council Bluffs builds twin reservoirs of prestressed reinforced concrete. il Concrete 50: 2-3 Ap '42; Same. Pub Works 73:11-12 Je '42

Lining a concrete reservoir. H. J. Cook. diag N E Water Works Assn J 56:70-5 Mr '42

New filtered-water reservoir at Windsor, Ont. J. C. Keith. il diags Water & Sewage 80: 11-15+ My '42

Ice problem

Protecting a reservoir against ice; log booms. H. J. Cook. il Water Works & Sewerage 88:549 D '41

Repair

Repairing leaks in concrete reservoirs. S. H. Coleman. diags Power Pl Eng 46:112 My '42

RESETTLEMENT. See Land settlement

RESIDENCE halls. See Dormitories

RESIN acids

Resin acids from pine tar. J. P. Bain. Am Chem Soc J 64:871 Ap '42

Structure and configuration of resin acids; podocarpic acid and ferruginol. W. P. Campbell and D. Todd. bibliog Am Chem Soc J 64:928-35 Ap '42

See also

Abietic acid

RESINOUS coal. See Coal

RESINOUS products

Advances in plastics during 1941; urea-formaldehyde resins. M. H. Bigelow. bibliog il Mod Plastics 19:63-4 Ja '42

Chemical structure of plastics. C. A. Redfarn. bibliog Chem & Ind 61:201-4 My 2 '42

Coal as a source material for the plastics industry. R. L. Wakeman and B. H. Weil. Ind & Eng Chem 34:1387-93 N '42

Coal by-products; solubilizing effect of hydrogenation upon aromatic-derived resins. W. H. Carmody. bibliog Ind & Eng Chem 34:74-8 Ja '42

Current use and conservation of phenol-formaldehyde plastics in automotive vehicles. S A E J 50:sup32+ F '42

Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34:1028-34 S '42

Films of polymer resins. S. Voyutski and E. Dzyadel. Chem Age (Lond) 45:302 D 13 '41

Fine chemical industry as a servant of the community. T. H. Durrans. Chem & Ind 61:212-13 My 9 '42

Impregnated plywood becomes war material. J. Delmonte. il Machine Design 14:53-7 Jl '42

Indian resins; the basis of a plastic industry. Chem Age (Lond) 47:295-6 O 3 '42

Machining acrylic plastics. W. J. Antener. il Mod Plastics 20:72-3, 76+ O '42

Molding a phenolic-sisal product; Co-Ro-Lite. H. C. Nelson, jr. and L. D. Reed. il diags Mod Plastics 19:52-3, 90 Mr '42

Naftolen, its use in plastics and coatings. L. Bornstein and F. Rostler. il Mod Plastics 19:72-4+ Ap '42

New precipitant for group II ions. S. Gaddis. J Chem Educ 19:327-8 Jl '42

New resin for paper making from melamine. Paper Tr J 115:14 S 10 '42

New thermosetting compounds; Columbia resin 39. Mod Plastics 20:88-90+ O '42

Non-metallic chemical plant; synthetic materials; Keebush. A. E. Williams. il Engineer 174:44-5 Jl 17 '42

Office record speaks. il Mod Plastics 19:59+ Ag '42

Petroleum plastics, the acrylic resins. C. C. Pryor. il diag Pet Eng 13:80, 82-4 My '42

Phenol for Stalin; U.S. plastics industry's calculations upset. Business Week p36-8 N 22 '41

Plastic assembly jigs and fixtures. W. D. Lewis. il Iron Age 150:78-81 O 1 '42

Plastics in production; improved thermosetting, casting resin; Baker plastic. K. J. Leeg. diags Iron Age 149:42-5 F 12 '42

Plexiglas and other acrylic resins. C. B. Wooster. il J Chem Educ 19:430-4 S '42

Producing a rubber-like synthetic; Resistoflex PVA. il Chem & Met Eng 49:80-1 Ap '42

Production of a palatable artichoke sirup; application of organic exchangers. D. T. Englis and H. A. Fiess. bibliog Ind & Eng Chem 34:864-7 Jl '42

Properties and uses of Resistoflex PVA, a rubber-like compound. H. E. Krebs. il Rubber Age 51:299-301 Jl '42

Properties and uses of Resistoflex; synthetic-resin-lined hose. W. MacWilliam. il Aero Digest 40:229+ My '42

Properties of synthetic resin treated woods; abstract. F. J. Grush. Product Eng 13:414 Jl '42

Quinone methides as intermediates in hardening of phenol-formaldehyde resins; abstract. K. Hultzsch. Chem & Met Eng 48:132-3 D '41

Replacements for latex in fiber products manufacture. R. T. Nazzaro. India Rubber W 106:345-6+ Jl '42

Resinous hydrocarbon products as rubber extenders; coumarone and terpene resins. L. M. Geiger. India Rubber W 105:489-90 F '42

Resistoflex PVA supplements synthetic rubber supplies. E. S. Peierls. il India Rubber W 105:467-70 F '42

Saran pipe and tubing. il Chem Ind 51:554-6 O '42

Self-sterilizing surfaces; compounding of silver with resins. A. Goetz, R. Tracy and S. Goetz. Science 95:537-8 My 22 '42

Study of the hardening process in phenol-formaldehyde resins; abstract. F. Hanus. Chem & Met Eng 49:205 My '42

Superpolyamides in Germany; range of I.G. products. Chem Age (Lond) 46:230 My 2 '42

Supply situation of plastic materials. F. Carman. Mod Plastics 20:45-8 N '42

Synthetic resin emulsions for paper saturation and sizing; used as extenders for rubber latex and reclaim. R. T. Nazzaro. Paper Tr J 115:29-32 N 5 '42

Synthetic resin replaces industrial rubber; applications of Resistoflex. il(p 1040-1) Chem & Eng N 20:1003 Ag 25 '42; Same cond. Mod Plastics 19:66-7+ Ag '42

Synthetic resins and plastics. H. A. Neville. bibliog il J Chem Educ 19:9-14 Ja '42

Synthetic resins and synthetic rubbers; chart revised. P. O. Powers. Chem & Eng N 20:536-8 Ap 25 '42

Synthetic resins in construction. H. N. Haut. il diags Aviation 41:84-5 Mr; 103, 105+ Ap '42

Thin films find varied applications in scientific research. V. J. Schaefer. Sci Am 165:317 D '41

Urea plastics. M. H. Bigelow. il Product Eng 13:93-6 F '42

Use of plastics and allied materials in aircraft construction. G. W. DeBell. J Aeronautical Sci 9:341-9 Jl '42; Same. Engineer 174:242-4, 265-6 S 18-25 '42

Vinsol resin, a new soil stabilizer. il Eng N 128:777-81 My 7 '42

Vinylidene chloride polymers. W. C. Goggin and R. D. Lowry. bibliog flow sheet il diags Ind & Eng Chem 34:327-32 Mr '42

Vinylidene chloride resin tubing. C. B. Branch and D. L. Gibb. il diag Mod Plastics 19:64-7+ My '42

Viscosity of naphtha-resin solutions. E. H. McArdle and E. L. Baldeschwieler. Ind & Eng Chem 34:882-5 Jl '42

What you can use; materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:53 Ap 13; 44 Ap 27; 77 My 11; 60 My 25 '42

Where plastic replaces rubber; fifteen widely varied applications at RCA. il Factory Management 100:106-7+ S '42

See also

Bakelite
Catalin
Melamine resins
Methyl methacrylate
Molded products
Phenol condensation products
Plastic materials
Saran

Adhesives

Adhesives industry is modernized. M. H. Bigelow. il Chem & Met Eng 49:120-4 F '42

Chemical factors involved in the glueing of wood with cold-setting urea/formaldehyde resins; abstract and discussion. W. G. Campbell. Chem & Ind 61:161-2 Ap 4 '42

Houses off the assembly line; synthetic resin-bonded plywood and synthetic resin adhesives. il Mod Plastics 19:36-7 D '41

Parachute flare base. il Mod Plastics 19:57+ Ag '42

Plastic structures in building construction. V. E. Yarsley. Electrician 127:318-19 D 5 '41

Plastics competition award to Technical plywoods. il Mod Plastics 19:150-1 N '41

Resin-bonded wood laminates for shell type aircraft structures. A. A. Gassner. bibliog diags J Aeronautical Sci 9:161-71 Mr '42

RESINOUS products—Adhesives—*Continued*

Rolling off a log; plywood, made available for new applications by development of synthetic resin adhesives. T. D. Perry. il diags Tech R 44:72-4, 88, 90+ D '41; Same cond. Sci Am 166:125-8 Mr '42

Strength of plastic-bonded plywood. G. B. Parsons. bibliog il diags Mod Plastics 19: 74-9, 110, 112+ Ag '42; Same. Aero Digest 41:160, 162, 165+ Jl; 140+ Ag '42

Synthetic adhesives for plywood and bakelite. Engineering 152:336 O 24 '41

Synthetic adhesives for plywood manufacture. Engineer 172:282 O 24 '41

Synthetic resins in construction. H. N. Haut. il diags Aviation 41:84-5 Mr; 103, 105+ Ap '42

Urea plastics. M. H. Bigelow. il Product Eng 13:95-6 F '42

Use of glue in wooden aircraft. J. G. MacDermot. Aero Digest 41:186+ Jl '42

Use of urea-formaldehyde resin for waterproofing starch used in corrugated and solid fiberboard production. P. B. Taft. bibliog Paper Tr J 115:30-2 O 15 '42

Working skis for U.S. troops. il Mod Plastics 19:50-1+ My '42

Working transparent plastics; types of cement for Plexiglas. J. Sasso. il diags Aviation 41:89, 93 My '42

See also

Plywood

Analysis

Isolation and identification of the resinous binder in water paints. R. W. Stafford. bibliog diags Ind & Eng Chem Anal ed 14:694-9 S 15 '42

Binding materials

Composition cork; with list of patents. L. P. Hart, jr. and others. bibliog il Ind & Eng Chem 34:649-58 Je '42

Resin binders for molding sands; abstract. E. Paragoff, jr. and C. P. Albur. Metals & Alloys 15:1010+ Je '42

Resin-bonded friction materials; phenolic bonding agents increase wear-resistance and life of brake linings, and contribute to frictional characteristics. D. S. Bruce and R. T. Halstead. il Mod Plastics 19:40-1+ Ja '42

Electric properties

Research on phenoplasts dielectric properties; abstract. H. Stäger, W. Siegfried and R. Sanger. Chem & Met Eng 49:164+ Ag '42

See also

Resinous products—
Insulating materials

Finishing materials

Advances in plastics during 1941; surface coatings. W. T. Pearce. bibliog il Mod Plastics 19:59-60 Ja '42

Amino resins for coatings. R. W. Auten. Mod Plastics 19:186, 188+ N '41

Cloud point of varnish resins in drying oils. P. O. Powers. bibliog Ind & Eng Chem Anal ed 14:387-91 My 15 '42

Colorless and transparent phenolic resins; abstract. C. R. Draper. Paint Oil & Chem R 104:18+ My 7 '42

Covering binocular bodies; vinyl resin fabric backed coating. W. R. Bailey. il Mod Plastics 20:50-3 O '42

Effect of pigments on oleoresinous film structure. R. C. Ernst and G. R. Eudaley. bibliog Paint Oil & Chem R 104:102-3, 114-15, 118-19 N 5; 18, 20 N 19 '42

Future of resin emulsion paints. A. J. Menaker. il Paint Oil & Chem R 104:7-8 Je 4 '42

How the coating industry is using the nitroparaffins; solvents for the vinyl resins. C. Bogin. Paint Oil & Chem R 104:8-10, 25-9 O 8 '42

Maleic resins in varnishes; abstract. H. A. Hampton. Paint Oil & Chem R 104:7-8 Ag 13 '42

Melamine resins for coatings; abstract. J. R. Alexander. Chem & Ind 61:72 F 7 '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:16+ Mr 12; 7-10 Ap 9 '42

Protective coatings incorporating phenolic resins; abstract. G. L. Wild. Chem & Ind 61:72 F 7 '42

Synthetic coatings. O. P. Clipper. Paint Oil & Chem R 104:9-12, 28-32 F 12; 11-12, 14, 38-9, 51-2 F 26 '42

Synthetic resins for surface and protective coatings. E. A. Bevan. Chem & Ind 61: 261-7 Je 13 '42; Abstract. Soc Dyers & Col J 58:184-5 S '42

Synthetics in the varnish industry; use of hydrogenated solvents. A. E. Williams. Chem Age (Lond) 47:33-5 Jl 11 '42

Vinyl covering for instruments releases rubber. il Product Eng 13:633 N '42

Insulating materials

Dilectene, a new insulating material; aniline-formaldehyde synthetic resin. S. A. Rulon. il Mod Plastics 19:72-4 Je '42

Non-metallic cable sheathing. Metals & Alloys 16:166+ Jl '42

Properties and characteristics of Formex wire; insulated with film of synthetic resin of polyvinyl acetal type. J. J. Curtin. il diags Gen Elec R 45:285-92 My '42; Excerpts. Electrician 129:147-51 Ag 7 '42

Styramic for high frequency insulation; physical and mechanical properties of Styramic and Lustron; properties of various insulating materials. T. S. Carswell and R. F. Hayes. il Mod Plastics 19:68-70+ F '42

Synthetic resin varnish; advantages for coil insulation. L. E. Frost and G. L. Moses. il Product Eng 13:144-6 Mr '42

Ultra high frequency insulation; Dilectene. il Electronics 15:130 Ap '42

Manufacture

Advances in plastics during 1941; resin plant equipment. Mod Plastics 19:61 Ja '42

Design of a urea resin plant. A. Brothman and A. P. Weber. il diags Chem & Met Eng 48:73-5+ D '41

Pyrolysis of lactic acid derivatives; conversion of methyl α-acetoxypropionate to methyl acrylate. L. T. Smith and others. bibliog Ind & Eng Chem 34:473-9 Ap '42

Synthetic phenols for resin manufacture. H. Howard. Ind & Eng Chem 33:1581 D '41

Patents

Advances in plastics during 1941; urea-formaldehyde resins. M. H. Bigelow. bibliog il Mod Plastics 19:63-4 Ja '42

German patents relating to vinyl polymers. L. Voge. India Rubber W 105:37-8, 157-8, 471-2 O-N '41, F '42

German patents relating to vinyl polymers; new series. M. Hoseh. bibliog India Rubber W 105:571-2; 106:43-4, 139-40, 248-9, 357-8, 459-60, 629; 107:171-2 Mr-S, N '42 (to be cont)

Prices

Synthetic resins and other branded paint materials (manufacturers' list prices). Oil Paint & Drug Rep 141:29-31+ Ja 5 '42 [cont monthly]

Statistics

Synthetic resins production, 1941. Oil Paint & Drug Rep 142:32 S 7 '42

Strength

High impact molding compounds; comparison of cotton cord, fabric and wood flour fillers. C. H. Whitlock and R. U. Haslanger. Mod Plastics 19:70-1 Je '42

High strength resins; phenol-aldehyde moulding compositions. T. S. Carswell. Can Chem & Process Ind 26:316 My '42; Same. Chem & Ind 61:214 My 9 '42

Impact strength of plastic sheet; compounds of copolymer vinyl chloride-acetate resin. C. S. Myers. bibliog il diags Mod Plastics 20:81-7, 116+ O '42

RESINOUS products—*Continued*

Testing

Acrylic resins for dentures. W. T. Sweeney, G. C. Paffenbarger and J. R. Beall. bibliog il Mod Plastics 19:61-7+ Ap '42

Vinyl elastomers; low-temperature flexibility behavior. R. F. Clash, jr. and R. M. Berg. bibliog il diag Ind & Eng Chem 34:1218-22 O '42

Textile uses

Effect of resin finishes on the color fastness and physical properties of rayon gabardines. H. M. Fletcher, W. M. Hay and A. J. Surratt. Am Dyestuff Rep 31:489-93 bibliog (p514) O 12 '42

New coated finish; vinyl acetal plastic in place of rubber to waterproof army fabrics. il Textile World 92:88-9 S '42

Permanent finishes. Textile World 92:82 Ag '42

Pigment binders in textile printing. A. J. Hall. Textile Col 64:175-6 Ap '42

Plastic-coated rayon yarns. H. R. Mauersberger. il Rayon 23:466 Ag '42

Plastic substitute material meets rubber specifications in waterproof fabrics; Saflex. Rubber Age 51:421 Ag '42; Same. il India Rubber W 106:599 S '42; Same cond. Chem & Eng N 20:1113 S 10 '42

Plastics competition award to Dorothy W. Liebes; plastics in drapery material. il Mod Plastics 19:90-1 N '41

Right for rain. il Mod Plastics 19:40-3+ Jl '42

Some modern war-time finishes. C. E. Salkeld. Soc Dyers & Col J 58:28-31 F '42; Same. Textile Col 64:245-9 My '42

Vinylidene chloride yarns now woven into goods; Velon, originated from Saran. H. R. Mauersberger. il Rayon 23:615-16 O '42

See also

Saran

Vinyon

Water absorption

Water absorption of resins. E. P. Irany. bibliog Ind & Eng Chem 33:1551-4 D '41

RESINS. See Gums and resins

RESINS, Synthetic. See Resinous products

RESISTOFLEX PVA. See Resinous products

RESONANCE

History of electrical resonance. J. Blanchard. diags Bell System Tech J 20:415-33 bibliog(p431-3) O '41

Resonance. C. A. Ludeke. diags J Ap Phys 13:418-23 Jl '42

Resonance problems; examples of their practical bearing. T. F. Wall. diags Elec R (Lond) 130:686-8 My 29 '42

RESONANCE (chemistry)

Color and constitution; the absorption of unsymmetrical cyanines; resonance as a basis for a classification of dyes. L. G. S. Brooker, G. H. Keyes and W. W. Williams. bibliog Am Chem Soc J 64:199-210 F '42

RESONANCE radiation. See Radiation

RESORCINOL

Vicinal substituted resorcinols; alkylresorcinols; the synthesis of γ-*n*-hexyl, γ-*n*-heptyl and γ-*n*-octylresorcinols. A. Russell and H. C. Gulledge. Am Chem Soc J 64:1313-15 Je '42

RESPIRATION

Analyzer for one ml of respiratory gas. P. F. Scholander. diags R Sci Instr 13:27-31 Ja '42

Modified Noyons thermic diaferometer for respiratory gas analysis. T. M. Carpenter and V. S. Coropatchinsky. il diags Ind & Eng Chem Anal ed 14:159-63 F 15 '42

RESPIRATION, Artificial

Eighteen receive Edison electric institute medals. M. B. Woods. il Edison Elec Inst Bul 10:63-9 F '42

Employees of three gas companies awarded McCarter medals. Am Gas Assn Mo 23:439 D '41

President's medal awards. Published in monthly numbers of National safety news

Unique device developed for standardizing artificial respiration training. Am Gas Assn Mo 23:434 D '41

RESPIRATORY apparatus

Maintaining safety equipment. il Oil & Gas J 41:49 My 14 '42

Plastics competition award to H. S. Cover. il Mod Plastics 19:142-3 N '41

Priorities on safety equipment as they concern the electric utilities; masks, protective clothing, etc. J. B. Davies. Edison Elec Inst Bul 10:97-8 Mr '42

Respirator and the job. J. H. Sterner. il Nat Safety N 45:26-7, 66+ F '42

Respiratory protection. il diags Nat Safety N 45:23-4+ Mr '42

Self-contained oxygen breathing apparatus; a handbook for miners. G. W. Grove. 234p U.S. Bur. of mines, Washington; pa 35c Supt. of doc '41

See also

Gas masks

RESPIRATORY organs

Effect of irritant gases upon the rate of ciliary activity. L. V. Cralley. bibliog diag J Ind Hygiene 24:193-8 S '42

Diseases

Epidemic of acute respiratory infection of unusual type; Coast Guard training station at Manhattan Beach, Long Island. J. W. Oliphant and T. R. Dawber. Pub Health Rep 57:993-7 Jl 3 '42

Respiratory diseases; air-borne theory of contagious disease. Science 95:sup 14 Mr 20 '42

See also

Cold (disease)

Influenza

Lungs—Dust diseases

Pneumonia

Silicosis

RESPIROMETERS

Volumetric microrespirometer for aquatic organisms. P. F. Scholander and G. A. Edwards. diag R Sci Instr 13:292-5 Jl '42

Volumetric microrespirometers. P. F. Scholander. diags R Sci Instr 13:32-3 Ja '42

REST

Rest pauses in motor learning as related to Snoddy's hypothesis of mental growth. H. M. Bell. 38p bibliog pa 95c Am. psychological assn, Northwestern univ, Evanston, Ill. '42

You must relax; a practical method of reducing the strains of modern living. E. Jacobson. rev ed 261p $1.75 McGraw-Hill '42

See also

Fatigue

REST days

Sunday work laws. Business Week p56 N 22 '41

REST periods

Importance of rest periods. M. Van de Water. Science 96:sup7 Ag 14 '42

RESTAURANTS

Air raid instructions issued by the National restaurant association. Personnel J 20:239-42 Ja '42

Canteens at work. C. G. Gardiner. 104p $1.50 bibliog(p101) Oxford (Toronto) '41

Feeding the people; communal feeding vs. private caterers. Economist 142:64 Ja 17 '42

Plan drive-in restaurant to take care of large trade. il diags plan Am Bld 63:59+ D '41

St Louis hotel remodels roof bar and dining space; Chase Hotel cocktail lounge and Starlight roof. il diags plan Arch Rec 91:72-4 F '42

Table d'utilité; restricting restaurant meals. Economist 142:675-6 My 16 '42

See also

Hotels

Air conditioning

Air conditioned plant restaurants keep busy war workers up to par; unusual building design, Chicago bridge and iron co. S. R. Lewis. il plan Heating-Piping 14:279-81 My '42

No interruption to business; replacing an air cooling system in restaurant. il diags plan Sheet Metal Worker 33:52-4 Ag '42

RESTAURANTS—*Continued*

Costs

Community feeding at Finchley; operation and costs of civic restaurants. il diag Electrician 129:349-51 O 2 '42

Designs and plans

1.2.3 restaurant and night spot, New York city. il plan Arch Forum 76:228-9 Ap '42
Restaurant, Charles A. Stevens department store, Chicago. il plan Arch Forum 75:374-6 N '41
Restaurants; building types study. il diags plans Arch Rec 91:65-76 F '42
Spaghetti bar, New York city; restaurant; conveyor brings the food direct to waitresses. il plan Arch Forum 76:176 Mr '42
Toll house, Whitman, Mass. il plans Arch Forum 76:120-2 F '42

Electric equipment

Community feeding at Finchley; operation and costs of civic restaurants. il diag Electrician 129:349-51 O 2 '42
Filing cabinets as hot-cupboards. il diag Elec R (Lond) 131:472 O 9 '42

Equipment

Annual report of food service equipment committee. Am Gas Assn Proc 1941:356-72
Steam requirements of process equipment; kitchen equipment; data sheet. Heating-Piping 14:675-6 N '42

Lighting

Illuminating engineer and the architect. N. A. Owings. il Illum Eng 37:370-2 Je '42

Purchasing

Why do you ruin good raw material? restaurant keeper's appeal to poultry packers. V. Megowen. il Food Ind 14:63-4 Je '42

Sanitation

Sanitation and bacteriology of public eating utensils; an investigation of public eating and drinking establishments in Providence, R.I. M. P. Horwood and P. J. Pesare. Pub Health Rep 57:33-44 Ja 9 '42

RESTRAINERS. See Photography—Developing and developers

RESTRAINT of trade

Agricultural insecticide group hit by cease and desist order. Oil Paint & Drug Rep 142:7+ Ag 3 '42
Antitrust holiday? Business Week p15-17 Ap 4 '42
Associated press denies monopoly charges in answer filed to government's suit. Comm & Fin Chr 156:1639 N 5 '42
Democracy and free enterprise; the Baxter memorial lectures delivered at the University of Omaha. T. W. Arnold. 81p $1 Univ. of Oklahoma press, Norman '42
Newton paper co. gets desist order; Federal trade commission suit against bogus paper makers. Paper Tr J 113:23 D 25 '41
Patent gives no right to control accessories. Oil Paint & Drug Rep 141:7+ Ja 12 '42
Restraint of retailing. Economist 143:324-5 S 12 '42
Restraint of trade; war should not become excuse for restrictive practices. Economist 143:233 Ag 22 '42
Sales book firms get desist order. Paper Tr J 115:15 S 17 '42
Wholesalers' selective listing of manufacturers outlawed. Oil Paint & Drug Rep 140:3+ D 1 '41

See also

Competition, Unfair
Glass container industry
Interstate commerce
Monopolies
Patents—Licensing
Price fixing
Production, Limitation of
Trade associations
Trusts, Industrial

RESTRAINTS on alienation

Illinois law of future interests. H. F. Carey and D. M. Schuyler. 741p $10 Burdette Smith co, Chicago '41

RESUSCITATION

Evolution of resuscitation. il Ind Med 11:430-1 S '42
Resuscitation. F. S. Rossiter. Ind Med 11:479-81 O '42

See also

Respiration, Artificial

RETAIL salesmanship. See Salesmanship, Retail

RETAIL salesmen. See Salesmen, Retail

RETAIL stores. See Chain stores; Department stores; Market stores; Retail trade; Store buildings

RETAIL stores, Manufacturers'

Stoker manufacturer operates retail store to prove his point. il Sheet Metal Worker 32:44, 46, 48 N '41

RETAIL trade

Army blitzes Carolina retailers. il Business Week p30+ N 22 '41

Backyard boom; run on barbecue grills, lawn furniture, and croquet sets. Business Week p54+ Je 27 '42

Consumers and the market. M. G. Reid. 3d ed 617p bibliog(p582-99) $3.85 Crofts '42

Department stores start fight on fake wholesale and retail sales outlets. Ptr Ink 197:33-4+ N 14 '41

Going local; war conditions open way for National council to put its consumer-retailer relations program on city-by-city basis. Business Week p50+ Mr 28 '42

How price fixing may hit retailers. Barron's 22:12 Ap 27 '42

Retail forum solves sales & ad problems of small merchants. Sales Management 51:37+ Jl 15 '42

Retailers baffled by war problems; get little help from manufacturers; survey of new-car dealers, tire stores and appliance dealers in ten cities. P. Salisbury. il Sales Management 50:22-4 My 1 '42

Small stores gain; effect of tire and gas rationing. Business Week p46 Ag 29 '42

What price volume? E. A. Burnham. Harvard Business R 20 no 3:327-35 [Ap] '42

What to do about civilian selling in wartime. P. T. Cherington. Adv & Sell 35:13-15, 64-5 Ag; 16+ S '42

See also

Advertising—Dealer cooperation
Advertising—Dealers, Appeal to
Canvassing
Chain stores
Christmas business
Cooperative associations
Country stores
Dealer helps
Dealer relations
Delivery of goods
Department stores
Display of merchandize
Electric utilities—Appliance selling
Gas companies—Appliance selling
Gasoline service stations
Grocery trade
Hardware industry and trade
Instalment plan
Mail order business
Market stores
Marketing
Men's stores
Merchandizing
Post exchanges
Purchasing
Returned goods
Roadside stores
Salesmanship, Retail
Salesmen, Retail
Self service stores
Shopping centers
Shopping services
Show windows
Store buildings

Accounting

Accounts receivable systems for small stores. C. W. Phelps. 60p Household finance corp. Dept. of research, Chicago '41

Comments on Lifo for department stores. R. E. North. J Account 73:311-13 Ap '42

Inventory fixer; stores try novel way of applying LIFO method in valuing stocks. Business Week p50+ Ap 11 '42

Last-in, first-out inventory basis; report by American institute of accountants committee on coöperation with controllers' congress of the National retail dry goods association. J Account 73:146-54 F '42

RETAIL trade—Accounting—*Continued*

Some modern aids to accounting and control; Atlas supply company. J. O. Williford. il J Account 74:217-26 S '42

See also

Department stores—Accounting

Advertising

Attention; a collection of the retail advertisements that have been most successful in arresting the attention of newspaper readers. 111p Bur. of advertising, Am. newspaper publishers assn, New York '41

Campaign advertising. J. Steagall. J Retailing 18:67-73 O '42

Largest promotion in history skyrockets dinnerware sales for Marshall Field. il Cer Ind 39:42-4 O '42

Newspapers get big price control job; helping retailers to comply with ceiling price regulation and making anti-inflation copy. il Ptr Ink 200:20-1 S 25 '42

Pleasing with ads. K. Hampton. Elec West 89:58 Ag '42

Retail advertising under war conditions. G. P. Slockbower. J Retailing 18:39-43 Ap '42

Retail posters inform consumers on conservation; Pacific Mills series for dealers. il Ptr Ink 199:16 My 22 '42

Retailers and newspapers made bond sales record in July. E. Johns. il Ptr Ink 200:15+ Ag 28 '42

Retailing in a cornfield; Printers' Ink special report. il Ptr Ink 198:21-3, 57, 60+ Ja 2 '42

Trade-marked brands greet newcomers in boom towns, Amarillo, Texas, plan. il Ptr Ink 201:22 O 2 '42

What's going to happen to retail advertising during the war? K. Collins. Sales Management 50:14-15 Ap 1 '42

Where can he get that hat? J. H. Morse. Ptr Ink 200:19-20 Ag 14 '42

See also

Advertising—Dealer cooperation

Advertising—Dealer helps

Department stores—Advertising

Mail order business—Advertising

Costs

See also

Chain stores—Costs

Employees

See Retail workers; Salesmen, Retail

Ensemble selling

Dispersion of consumer purchases among competing retail outlets. H. D. Wolfe. J Business 15:160-5 Ap '42

Finance

Benchmarks of retail health, 1941; 14 financial ratios for 12 lines. R. A. Foulke. Dun's R 50:16-17+ O '42

Effects of price freezing on merchandising issues. G. W. Mathis. il Mag of Wall St 70:178-9+ My 30 '42

Fourteen important financial ratios for 12 retail trades. R. A. Foulke. Dun's R 49:9 D '41

Outlook for retail sales. L. M. Hostetler. Barron's 22:7 F 23 '42

Retail trade concentration; proposed insurance fund; abstracts. Elec R (Lond) 131: 18-19 Jl 3 '42; Electrician 129:6 Jl 3 '42; Economist 143:24-5; Comments (Way out). 4-5 Jl 4 '42

Retail trade in 1941. H. Krusa. J Retailing 18:57-9 Ap '42

War time credit complications; fatalities among retailers. J. E. Bullard. Credit & Fin Management 44:11+ N '42

See also

Chain stores—Finance

Department stores—Finance

Mail order business—Finance

Hours of business

Night openings. Business Week p67-8 Jl 4 '42

Laws and regulations

Facts that must be disclosed legally in retail selling. J. W. Wingate. J Retailing 18:82-4 O '42

How much do you know about government regulation of retailing? J Retailing 18:15, 21, 88-9, 96 F, O '42

Inventory mixup; retailers to convince WPB that controls over stocks should be less drastic. Business Week p46 Je 13 '42

N.Y. Senate passes square deal bill. Oil Paint & Drug Rep 141:5+ Ap 27 '42

OPA begins work on retailer assistance. Comm & Fin Chr 156:1171 O 1 '42

OPA moves into the stores. Business Week p15-17 Mr 7 '42

Price rules explained to retail trade associations. Comm & Fin Chr 155:1867 My 14 '42

See also

Price fixing, Resale

Manufacturers' demonstrations

See also Department stores—Manufacturers' demonstrations

Purchasing

Retail buying under war conditions. B. F. Miller. J Retailing 18:44-8 Ap '42

Time to start retailers on national brands is now; room for one more advertised trademarked line in every field. S. C. Singer. il Ptr Ink 200:21, 42 Jl 24 '42

Where do the independents buy? pictograph. Sales Management 51:38 Ag 15 '42

Who supplies the retailer? W. Mitchell, jr. and W. Hayes. il Dun's R 50:11-12 Jl '42

Securities

Lower 1942 merchandising earnings indicated; position of leading merchandise stocks. il Mag of Wall St 70:494-6+ Ag 22 '42

Lower profits likely for most merchandising companies; position of leading stocks. il Mag of Wall St 69:545-8 F 21 '42

Shall I continue to hold merchandise stocks? O. Ely. Mag of Wall St 71:72-4+ O 31 '42

See also

Chain stores—Securities

Service

Customer services under war conditions. J. Steagall, V. Sylbert and S. Victor. J Retailing 18:49-56 Ap '42

Our merchants help cash the new flood of payroll checks; insured check plan and educational program at Macon, Georgia. E. S. Lee. il Bankers Mo 58:494-5+ N '41

Small town stores

Small town business improving. E. E. Sproul. Bankers Mo 59:387-9+ S '42

Statistics

Business and the war; a front line view of effects and trends. W. Mitchell, jr. and W. Hayes. Dun's R 50:13-19 S '42

Business inventories in the war period. F. C. Murphy and L. J. Paradiso. Survey of Cur Business 22:6-12+ Je '42

Consumption; retail distribution, 1941. Survey of Cur Business 22:30-2 F '42

Divergent trends in retail sales; graphs. Business Week p56 N 15 '41

Estimated sales of all retail stores by kinds of business, 1935-1941. Survey of Cur Business 22:24-5 Ag '42

Fourteen important financial ratios for 12 retail trades. R. A. Foulke. Dun's R 49:9 D '41

Monthly estimates of total consumer expenditures, 1935-42. W. C. Shelton and L. J. Paradiso. Survey of Cur Business 22:8-14+ O '42

New retail sales index of the Department of commerce. Dun's R 49:31 D '41

1941 retail sales and inventories. W. Hayes and G. J. Jackman. Dun's R 50:13-14 My '42

Retail credit survey, 1939. M. L. Merriam. map U S Bur For & Dom Com, Domestic Commerce Ser 112:1-193; pa 20c Supt. of doc. '41

RETAIL trade—Statistics—*Continued*

Retail distribution here and abroad; How many will be gone a year from now; pictographs. Sales Management 51:31 O 20 '42

Retail sales index for all cities where increases are expected for year ending February 28; rate of change. Sales Management 50:52-3 Ja 1 '42 [cont monthly]

Retail trade in 1941. H. Krusa. J Retailing 18:57-9 Ap '42

Sales Management survey of buying power, 1942; retail sales, effective buying income and other indices of buying power, with census data on population, families, farms, owner-occupied dwellings, rental value. il maps Sales Management 50:9-268 Ap 10 '42

Stock

Axis goods out. Business Week p37 D 20 '41

Business inventories in the war period. F. C. Murphy and L. J. Paradiso. Survey of Cur Business 22:6-12+ Je '42

Inventory mixup; retailers to convince WPB that controls over stocks should be less drastic. Business Week p46 Je 13 '42

Inventory truce. Business Week p57 Jl 11 '42

Retail inventory trends. J Retailing 18:66 O '42

Retailers concerned over inventory control plan. Barron's 22:12 Je 1 '42

Scarcities faced by retailers in 1941. W. Hayes and W. Mitchell, jr. Dun's R 50:5-8+ Je '42

Stock control methods. H. W. Huegy and R. V. Mitchell. 29p pa 10c Univ. of Illinois, College of commerce and business administration, Urbana '42

See also

Department stores—
  Purchasing

Store buildings

See Store buildings

Store layout

Macy's Parkchester, New York city; views, plans and construction outline. Arch Forum 76:126-8 F '42

Three retail stores for Sears, Roebuck & co.; Birmingham, Ala., Honolulu, Washington, D.C. il diags plans Arch Forum 76: 207-16 Ap '42

See also

Department stores—
  Layout

Store management

Comprehending the problems of the merchant; knowledge a teacher coördinator must possess if he is to introduce a successful program. S. J. Higginbotham. J Retailing 18:60-2 Ap '42

Informative selling. R. Wolcott. 88p $1 Nat. consumer-retailer council, New York $1

Introduction to modern retailing. N. A. Brisco and L. Arnowitt. 341p $2 Prentice-Hall '42

Management policies by industries; retail druggists. J. J. Shine. il Bankers Mo 59: 18-20+ Ja '42

Merchandising techniques. E. B. Hogadone and D. K. Beckley. 263p bibliog(p257-8) $1.75 McGraw-Hill '42

Small-store woes. Business Week p56-7 Ap 18 '42

See also

Delivery of goods
Department stores—
  Management

Store size

Long-run behavior of costs in a chain of shoe stores; a statistical analysis. J. Dean and R. W. James. J Business 15:1-54 pt 2 Ap '42

Study and teaching

Classes in distributive education ask selling helps from manufacturers. Sales Management 49:24-6, 28+ D 15 '41

Problem-solution. J. A. Dorsey. J Retailing 18:90-2 O '42

Year's experience with coöperative education for distributive education. M. Banks. J Retailing 18:93-4 O '42

Taxation

See also

Chain stores—Taxation

Canada

Advertising flourishes in Canada despite price ceiling; merchandisers keep up activity. M. Brown. il Ptr Ink 199:22, 24, 27-8 Je 12 '42

Canada; order requiring manufacturers and wholesalers to allocate equitably among retail merchants. For Comm W 9:18-19 N 7 '42

Licensing of Canadian retail trades. Monthly Labor R 53:1396 D '41

Great Britain

Activity at the shop counter; percentage changes in retail sales from preceding year, monthly, Nov. 1940-Dec. 1941. Economist 142:234 F 14 '42

Decline in retail trade. Economist 141:483 O 18 '41

Effects of the war on British marketing; a guide for American business. E. R. Hawkins. U S Bur For & Dom Com Economic Ser 18:1-74; pa 15c Supt. of doc. '42

Helping retailers; Britain devises a system which would let shopkeepers close now, reopen after war. Business Week p60+ Ag 22 '42

Rationalising retail deliveries. Economist 142: 51 Ja 10 '42

Restraint of retailing. Economist 143:324-5 S 12 '42

Retail costs and profits; operating expenses of retailers selling cloth and apparel, 1941-42; with table. Economist 143:248-9, 254 Ag 22 '42

Retail trade concentration; proposed insurance fund; abstracts. Elec R (Lond) 131: 18-19 Jl 3 '42; Electrician 129:6 Jl 3 '42; For Comm W 8:40 Jl 18 '42; Economist 143: 24-5; Comments (Way out). 4-5 Jl 4 '42

Retail trade in 1941. Economist 142:sup28-9 Mr 14 '42

Retail trade licensing. For Comm W 5:19-20 D 13 '41

Retailers and the report. Economist 143:38-9 Jl 11 '42

Retailers' mutual assistance. Elec R (Lond) 131:445 O 2 '42

Retailers' war ills. Business Week p46+ Ap 18 '42

Shopkeepers in distress; value of non-food retail sales. Economist 142:212-13, 234-5 F 14 '42

Shopkeepers on trial. Economist 142:179-80 F 7 '42

Shops and the war. Economist 142:643 My 9 '42

Shops in wartime. Economist 143:70 Jl 18 '42

Trade in England under war conditions. A. L. Skinner. Credit & Fin Management 44: 10-11 Ja '42

Unsolved problem. Economist 143:475 O 17 '42

Massachusetts

Development of retail trade in Massachusetts cities and towns, 1929-1939; based on United States census of retail trade-Massachusetts. M. L. Morse. 27 numb l Massachusetts state planning board, 11 Beacon st, Boston '41

United States

Aggressive, competent showmen among independents will do all right. T. B. Freeman. Barron's 22:13 Jl 27 '42

Blow to retail trade. W. Gates. il Mag of Wall St 69:697-9+ Ap 4 '42

Business and the war; a front line view of effects and trends. W. Mitchell, jr. and W. Hayes. Dun's R 50:13-19 S; 5-10+ O '42

Retailers for victory! B. H. Namm. J Retailing 18:35-8+ Ap '42

Revolution in distribution; what's ahead for retailers, middlemen, salesmen? W. Gates. il Mag of Wall St 70:583-5, 618 S 19 '42

RETAIL trade—United States—*Continued*

Shall I continue to hold merchandise stocks? shortages of goods, higher operating costs and increase in taxes. O. Ely. Mag of Wall St 71:72-4+ O 31 '42

16th census of the United States: 1940; census of business: 1939; retail trade [Statistics by states and by commodities published in various bulletins] U.S. Bur. of the census, Washington; Sold by Supt. of doc. '41

Slackening in distributive trade. Nat City Bank p74-6 Jl '42

Upward retail sales trend. Q. F. Walker. Comm & Fin Chr 154:1336 D 4 '41

Utah

Merchandise availability in Utah. D. E. Faville, D. M. Jones and R. B. Sonne. 229p $3 Stanford univ. press '42

RETAIL workers

Retail experience with employee testing. Management R 31:235-6 Jl '42

Retail wage agreement. Economist 142:159-60 Ja 31 '42

Training for executive leadership. W. Rothschild. J Retailing 18:33-4 Ap '42

Typical briefs in the application of the Fair labor standards act to the employees of retail warehouses. 183p pa $1 Am. retail federation, 1627 K st, NW, Washington, D.C. '41

Vacation policies in retail stores. Monthly Labor R 54:140-2 Ja '42

Withdrawal of young women from retail trade in Great Britain. Monthly Labor R 54:56 Ja '42

Year's experience with coöperative education for distributive education. M. Banks. J Retailing 18:93-4 O '42

See also

Department stores—Employees

Salesmen, Retail

RETAINING walls

Lateral earth pressures on retaining walls. R. R. Minikin. diags Engineering 154:21-3 Jl 10 '42

Metal crib retaining wall holds fill on mountainside. il Roads & Sts 84:50-1 D '41

Railways and air raids; retaining walls. il diags Engineer 173:152-4 F 20 '42

Retaining walls. R. R. Minikin. diags Engineering 153:61-3 Ja 23 '42

Rubble masonry for road culverts and retaining walls. L. M. Winsor. il Civil Eng 12:36-7 Ja '42

See also

Dams

Earth pressure

Embankments

Railroads—Construction

Reservoirs

RETAINING walls, Concrete

Design of concrete retaining walls. O. Albert. diags Concrete 50:33-6 Je; 33-5 Jl; 33-5 Ag '42

RETINA

See also

Color sense

RETIREMENT insurance. See Annuities; Insurance, Life—Retirement income policies

RETIREMENT plans. See Pensions, Industrial

RETORTS, Canning. See Canneries—Equipment

RETORTS, Gas. See Gas retorts

RETURNED goods

Control of consumer returns. E. H. Gault and C. S. Goodman. diags Michigan Univ Bur of Business Research Business Studies v 10, no 1:1-107 '42

REUTHER, Walter Philip, 1907-

Reuther of the Reuther plan. por Business Week p60 Ja 17 '42

REUTHER plan

G.M. hits back; public debate on Reuther plan and company's counterdemands on union. Business Week p70+ Ap 4 '42

REVENUE act of 1941

Income, estate and gift tax provisions of the Internal revenue code as amended to October 1, 1941. 267p pa $1 Commerce clearing house '41

Manufacturers' excise taxes under the Revenue act of 1941. H. P. Crawford. For Comm W 5:4-5+ D 27 '41

Revenue act, 1941, with explanation; final full text as sent to the President for approval. 80p $1 Commerce clearing house '41

Revenue act of 1941 with explanation and federal tax charts. 96p pa $1; library ed 80c Prentice-Hall '41

REVENUE bonds. See Bonds, Revenue

REVERBERATION. See Echo

REVERE copper and brass, inc.

Earnings, 1939-1941. Comm & Fin Chr 155:1417 Ap 6 '42

Revere helps customers switch from peace to war production; technical advisory service. il Sales Management 50:40-1 Ap 20 '42

To recapitalize. Comm & Fin Chr 154:1058 N 15 '41

REVOLUTIONS

Revolutions and dictatorships; essays in contemporary history. H. Kohn. 2d ed 439p bibliog(p425-31) $3.50 Harvard univ. press '41

REWARDS, prizes, etc.

Alfred Noble prize to electrical engineer, Robert F. Hayes, jr. Civil Eng 12:115 F '42

American gas association awards; individuals honored for gas industry achievements. Am Gas Assn Mo 24:404-5 N '42; Same cond. Am Gas J 157:14-15 N '42

Awards for achievement in aeronautics; Institute of aeronautical sciences. Science 95:165-6 F 13 '42

Awards of the American society of mechanical engineers. Science 94:535-6 D 5 '41

Climaxing 50 years of pioneering in chemical engineering; fifth biennial award for chemical engineering achievement presented to Dow chemical company; presentation by A. H. White; acceptance by W. H. Dow. il Chem & Met Eng 48:66-7 D '41

First Percy Nicholls award is presented to E. G. Bailey. Mech Eng 64:816 N '42

Institute of the aeronautical sciences honors night and tenth anniversary dinner. J Aeronautical Sci 9:142-51 F '42

Lawrence Sperry award for 1941 to Ernest G. Stout. J Aeronautical Sci 9:115 Ja '42

Metals and Alloys announces an annual award for engineering achievement in the metal industries. Metals & Alloys 16:598 O '42

Recipients of the George W. Fuller award; portraits. Water Works & Sewerage 89:433 O '42

Report of the prize awards committee, Edison electric institute. H. P. Liversidge. il Edison Elec Inst Bul 10:239-42+ Je '42

San Diego receives the Charles A. Coffin award; other awards. Elec W 117:2071 Je 13 '42

Society of motion picture engineers awards. Soc Motion Picture Eng J 37:547-56 D '41

Stalin prizes for scientific contributions. Science 95:188 F 20 '42

See also

Advertising awards

Medals

Nobel prizes

Putnam, William Lowell, mathematical competition

Safety contests and awards

Washington award

REYNOLDS, R. J., tobacco company

Annual report. Comm & Fin Chr 155:267 Ja 17 '42

Arranges $75,000,000 credit. Comm & Fin Chr 156:166 Jl 13 '42

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:600 S 19 '42

Dividend prospects. S. Devlin. Mag of Wall St 71:78-9+ O 31 '42

Replies to suit, asks dismissal of action charging fraud in stock handling. Comm & Fin Chr 156:1156 S 28 '42

What can Reynolds Tobacco earn and pay? R. Colston. il Mag of Wall St 70:32-3 Ap 18 '42

REYNOLDS metals company

Annual report. Comm & Fin Chr 155:1605 Ap 20 '42

RHEEM, R. S.

Portrait. Marine Eng 47:228 O '42

RHEEM manufacturing company

Common stock offered. Comm & Fin Chr 156: 869 S 7 '42

Registers with SEC. Comm & Fin Chr 156:788 Ag 31 '42

RHENIUM

Preliminary observations on the behaviour of rhenium and of the complex thiocyanates of rhenium and molybdenum with toluene-3:4-dithiol. C. C. Miller. Chem Soc J p792 N '41

Analysis

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

RHENIUM compounds

Polarographic investigation of rhenium compounds; oxidation of -1 rhenium at the dropping electrode and the potential of the Re^{+2}-Re^{-1} couple. J. J. Lingane. bibliog diag Am Chem Soc J 64:2182-90 S '42

Polarographic investigation of rhenium compounds; reduction of perrhenate ion at the dropping mercury electrode. J. J. Lingane. bibliog Am Chem Soc J 64:1001-7 Ap '42

RHEOLOGY

High-speed rotational viscometer of wide range; confirmation of the Reiner equation of flow. H. Green. bibliog il diags Ind & Eng Chem Anal ed 14:576-85 Jl 15 '42

Physics of pigments in dispersed systems. H. Green. bibliog il J Ap Phys 13:611-22 O '42

Rheological developments, past and present. G. W. S. Blair. Chem & Ind 61:142-3 Mr 21 '42

See also

Fluids

Plasticity

RHEOSTATS

Balancing three-phase water-rheostat loads during student laboratory experiments. V. Wouk. Elec Eng 61:542 O '42

New mercury rheostatic method. K. A. Oplinger. il diag Instruments 15:46+ F '42

Why taper wound rheostats are better. Power Pl Eng 46:93-4 F '42

RHEOTRON. See X ray apparatus

RHEUMATIC fever

Arthritis linked to childhood rheumatic fever; abstract. A. H. Baggenstoss and E. F. Rosenberg. Sci Am 166:296 Je '42

RHODAMINE B

Estimation of small amounts of antimony with rhodamine B. W. G. Fredrick. Ind & Eng Chem Anal ed 13:922-4 D 15 '41

RHODANINE

Analytical possibilities of some hydroxybenzalrhodanines; *o-*, *m-*, and *p*-hydroxybenzalrhodanines and 3,4-di-hydroxybenzalrhodanine. A. W. Scott and T. E. Robbins. bibliog Ind & Eng Chem Anal ed 14:206-7 Mr 15 '42

RHODANINE oxindole

Synthesis from rhodanine-oxindoles of keto and mercapto derivatives of cinchoninic acid. R. V. Jones and H. R. Henze. bibliog Am Chem Soc J 64:1669-72 Jl '42

RHODE ISLAND

History

Lively experiment; John Clarke of Rhode Island. il Fortune 26:84-5 Jl '42

RHODE ISLAND insurance company

War risker. Business Week p99-101 O 17 '42

RHODES, Edward Everett, 1868-

Mutual Benefit fieldmen and general agents honor vice-president. por Weekly Underw 147:289+ Ag 8 '42

Unveil E. E. Rhodes painting. por East Underw 43:3 Ag 7 '42

RHODES, Frederic Harrison, 1878-1942

Sketch. por East Underw 43:3 N 6 '42; Nat Underw (Life ed) 46:3+ N 6 '42; Weekly Underw 147:1086+ N 7 '42

RHODIUM

Long-lived activity of rhodium. O. Minakawa. bibliog Phys R 60:689-90 N 1 '41

Resonance absorption of neutrons in rhodium, antimony, and gold. H. Feeny, C. Lapointe and F. Rasetti. bibliog Phys R 61: 469-75 Ap 1 '42

Rhodium contacts. Electronics 15:88 Ja '42

Analysis

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

RHODIUM plating

Electrodeposition of the metals of the platinum group. K. Schumpelt. bibliog Electrochem Soc Trans 80 (paper 40):549-58 O '41; Same. Metal Finishing 40:405-8 Ag '42

RHODIZONIC acid

Analytical use of sodium rhodizonate. F. Feigl and H. A. Suter. bibliog Ind & Eng Chem Anal ed 14:840-2 O 15 '42

Preparation of tetrahydroxyquinone and rhodizonic acid salts from the product of the oxidation of inositol with nitric acid. P. W. Preisler and L. Berger. bibliog Am Chem Soc J 64:67-9 Ja '42

RHYOLITE

Structural features of the Keewatin volcanic rocks of western Quebec. M. E. Wilson. bibliog diags map Geol Soc Bul 53:53-69, pl 1-5 Ja '42

RIBBONS

Trade practice rules for the ribbon industry. Rayon 23:479-82 Ag '42

RIBOFLAVIN

Nutritional deficiency and infection; influence of riboflavin or thiamin deficiency on fatal experimental pneumococcal infection in white mice. J. G. Wooley and W. H. Sebrell. bibliog Pub Health Rep 57:149-61 Ja 30 '42

Quantitative relationship of riboflavin to cataract formation in rats. H. M. Baum, J. F. Michaelree and E. B. Brown. Science 95: 24-5 Ja 2 '42

Vitamin-B_1 and riboflavin contents of wheat germ. J. J. C. Hinton. Soc Chem Ind J 61:143-4 S '42

Analysis

Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

Riboflavin analysis of cereals; application of the microbiological method; comparison with fluorometric method. J. S. Andrews, H. M. Boyd and D. E. Terry. bibliog Ind & Eng Chem Anal ed 14:271-4 Mr 15 '42

RIBONUCLEIC acid

Constitution of yeast ribonucleic acid; synthesis of yeast adenylic acid. G. R. Barker and J. M. Gulland. Chem Soc J p231-2 Ap '42

RICE

Burma rice exports. For Comm W 5:33-4 N 15 '41

Dextrines and semi-dextrines from minor starches; standard processes with rice and sweet-potato starch. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:201-2 Ap 18 '42

Effects of oxygen on respiration, fermentation and growth in wheat and rice. D. L. Taylor. Science 95:129-30 Ja 30 '42

Honduras rice production, 1933-34 to 1939-40. For Comm W 5:29 D 13 '41

Nation's food; cereals as food; the chemical composition and nutritive value of maize, rice, rye, and barley. W. P. Ford. bibliog Chem & Ind 60:875-8 D 13 '41

Occidental rice; U.S. feeds itself and to spare. Business Week p81-2 Mr 7 '42

Rice economy of monsoon Asia. V. D. Wickizer and M. K. Bennett. 358p bibliog(p335-47) $3.50 Food research inst, Stanford University, Calif. '41

Rice loan program. Comm & Fin Chr 156: 994 S 17 '42

RICE—*Continued*
Rice production and consumption in British Malaya. For Comm W 5:25 D 6 '41

Prices

Rice price is cut. Business Week p66-8 Je 6 '42

RICE mills

Employees

Earnings and hours in rice mills, 1941. B. L. Smith. Monthly Labor R 53:1274-87 N '41
Earnings in the grain-mill products industries, 1941. F. Jones and B. L. Smith. Monthly Labor R 54:1006-16 Ap '42

RICE starch
Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64:2144-6 S '42
Waxy starch of maize and other cereals; a possible competitor for tapioca. R. M. Hixon and G. F. Sprague. bibliog il Ind & Eng Chem 34:959-62 Ag '42

RICHARDSON, Guy A.
Portrait. Mass Transportation 38:26 Ja '42

RICHARDSON company
Growth stocks and the investor. E. N. Chapman. Barron's 22:13 Ja 26 '42

RICHARDT, Fred C.
Sketch. S. Welton. por East Underw 43:38 Mr 20 '42

RICHMOND, Virginia

Architecture

Houses of old Richmond. M. W. Scott. 332p $5 Valentine museum, Richmond, Va. '41

RICH'S, incorporated
Growth stocks and the investor. E. N. Chapman. Barron's 22:13 F 2 '42

RICINELAIDIC acid
Diastereoisomerism of the 9,10,12-trihydroxystearic acids and the geometric configurations of ricinoleic and ricinelaidic acids. J. P. Kass and S. B. Radlove. bibliog Am Chem Soc J 64:2253-7 O '42

RICINOLEIC acid
Diastereoisomerism of the 9,10,12-trihydroxystearic acids and the geometric configurations of ricinoleic and ricinelaidic acids. J. P. Kass and S. B. Radlove. bibliog Am Chem Soc J 64:2253-7 O '42

RICKETTS, Forrest Eugene, 1878-
1941 Lamme medalist; with address by N. Stahl and response by F. E. Ricketts. por Elec Eng 61:396-401 Ag '42

RIFLES
Cartridge links for machine guns and automatic rifles. F. C. Duston. il diags plan Mach 49:123-38 O '42
Complete guide to handloading. P. B. Sharpe. 2d ed rev & enl 465p, 72p $7.50 Funk & Wagnalls, New York '42
New semiautomatic carbine. R. R. Studler. il Mech Eng 64:139-40 F '42
Tyro stocks a rifle. H. A. Groesbeck, jr. il Sci Am 166:42-3 Ja '42

Manufacture

Grinding rifle drills free-hand. il diags Iron Age 150:58-9 O 15 '42
Speeds rifle-bore finishing operations; vertical reaming machines. il Steel 109:77 D 15 '41

RIGGS, Henry Earle, 1865-
Sketch. por Civil Eng 12:54 Ja '42

RIGHT of way
See also
Eminent domain

RING compounds. See Cyclic compounds

RING dikes. See Dikes (geology)

RINGWORM. See Athlete's foot (disease)

RIO DE JANEIRO

Libraries

Glimpse of some special collections in the National library, Brazil. O. C. Rodrigues. Special Lib 32:370-4 D '41

RIO GRANDE & southern railroad
R.G. & S. saved. il Business Week p48 Je 20 '42

RIO GRANDE valley
Reconnaissance work in the upper Rio Grande valley, Colorado and New Mexico, season 1942. E. B. Renaud. 35p bibliog(p35) Dept. of anthropology, Univ. of Denver, Denver '42

RIPARIAN rights. See Water rights

RISK
Conference board finds British government assumes risks left for business in U.S. Comm & Fin Chr 155:2305+ Je 18 '42
See also
Profit
Speculation

RISKS (insurance). See Insurance, War risk; Insurance, Fire—Risks; Insurance, Life—Aviation risks; Insurance, Life—Risks

RITTENHOUSE, David, 1732-1796
Astronomy during the early years of the American philosophical society. S. A. Mitchell. Science 95:489-92 My 15 '42

RIVER coal. See Coal dredging

RIVER pollution. See Water pollution

RIVER traffic
Coal handling changes cut costs and increase capacity; Mississippi River improvement makes available coal from three additional districts; new storage and handling facilities. P. Woodnorth. il plan Power Pl Eng 46:60-2 Mr '42
How cheap is river transport? with cost data. C. E. Troxel. Ry Age 113:408-11 S 12 '42
Inland navigation and canals. J. M. Lacey. diags Engineering 153:374, 383 My 8-15 '42
Oil transport on the Mississippi will reach 200 million barrels in 1942. Sci Am 166:242 My '42
Relationship of Missouri River navigation improvements to valley properties. F. S. Besson. il maps Am Water Works Assn J 34:475-87; Discussion. W. T. Bailey. 487-9 Ap '42
TVA plans public freight terminals to aid river valley shipping firms. Eng N 129:69 Jl 9 '42
TVA's riverway. il Business Week p38+ D 6 '41
Towboat heyday; petroleum crisis gives added boost to record traffic to rivers. il Business Week p24+ Jl 4 '42
Wartime and the river; barge traffic on the Mississippi River system. il map Fortune 26:68-75+ Jl '42
See also
Barges
Waterways

RIVERS
Development of the science of river measurement hydrology. J. C. Hoyt. bibliog il Civil Eng 12:324-6 Je '42
Silt problems. W. E. Corfitzen. il Civil Eng 12:616-19 N '42
Source of beach and river sands on Gulf coast of Texas. F. M. Bullard. bibliog maps Geol Soc Bul 53:1021-43, pl 1-3 Jl '42
See also
Dams
Flood control
Floods
Hydraulic engineering
Hydraulics
River traffic
Stream flow
Water pollution
Water rights
Water supply
Watersheds
Waterways
also names of rivers, e.g.
Columbia river
Mississippi river

Bank protection

Revetment, Nebraska; unit prices. Eng N 127:754 N 20 '41

Covering

Putting a river underground; pressure conduit to carry the Park river underground through Hartford, Conn. il diag map Eng N 128:180-3 Ja 29 '42

RIVERS—*Continued*

Regulation

Basic economic considerations affecting single and multiple purpose projects; flood control, irrigation, power and navigation. O. M. Page. il Am Soc C E Proc 68:411-20 Mr '42; Discussion. 68:1237-8 S '42

Development of Mississippi River channel; model-prototype conformity. F. R. Brown. Am Soc C E Proc 68:1366-8 O '42

Fen flood protection. map Engineer 174:218-19, 233-5, 254-5 S 11-25 '42

Flood control for the Yazoo valley, Miss. G. A. Morris. il maps Civil Eng 12:243-6 My '42

Inland navigation and canals. J. M. Lacey. diags Engineering 153:374, 383 My 8-15 '42

Model study of tidal currents in East river, New York. L. S. Dillon. il diag maps Civil Eng 12:295-8 Je '42

Operation experiences, Tygart reservoir. R. M. Morris and T. L. Reilly. il diag map Am Soc C E Proc 67:569-93 Ap '41; Discussion. 67:1465-8; 68:161-3 O '41, Ja '42

Power dominates river development in 1941. H. W. Richardson. il map Eng N 128:101-4 Ja 15 '42

Relationship of Missouri River navigation improvements to valley properties. F. S. Besson. il maps Am Water Works Assn J 34: 475-87; Discussion. W. T. Bailey. 487-9 Ap '42

River channel tailored to avert washouts; Little Dalles river, Washington. il Comp Air M 47:6667-8 F '42

Toby Creek pressure conduit. J. T. Starr. il map Civil Eng 12:99-101 F '42

See also

Colorado river
Columbia river
Dams
Flood control
Levees

Ohio

Ohio stream drainage areas and flow duration tables. C. H. Wall and C. V. Youngquist. maps Ohio State U Eng Exp Sta Bul 111:1-73 '42 (pa 75c)

United States

Power dominates river development in 1941. H. W. Richardson. il map Eng N 128:101-4 Ja 15 '42

RIVERS, Underground. See Water, Underground

RIVERTON, Virginia

Bridges

Virginia completes three bridges at Riverton. il Eng N 128:63 Ja 8 '42

RIVETED joints

Designing web-flange rivet connections for shear stresses. H. C. Martin. diags Aero Digest 41:162, 165-6+ S; 116-18+ O '42

Eccentric riveted connections. F. P. Witmer. diags Eng N 129:41 Jl 2 '42

Investigation of behavior of a riveted joint within a plated structure; abstract and discussion. A. M. D'Arcangelo and J. A. Brown. Marine Eng 46:94 D '41

Joining practices for high-nickel alloys. Am Mach 86:902 Ag 20 '42

Master boiler makers association report on application of rivets. il diags Ry Mech Eng 116:101-4 Mr '42

Riveted fastenings. E. C. Posner. il diags Product Eng 13:446-50 Ag '42

Strength analysis of riveted and bolted joints. W. A. McGowan. diags Aviation 41:91-2, 95-6, 99+ Ap; 105, 107, 109, 111-12+ My '42

Study of defects in high-pressure boilers; Master boiler makers' assn. committee report. diags Ry Mech Eng 116:450-3 N '42

Testing

Investigation of welded and riveted load-bearing stiffeners of plate girders. F. J. Evans and H. Brenman. il diags Welding J 21:sup280-5 Je '42

Simple tension jig for testing single-riveted and spot-welded sheet specimens. N. C. Parrish. il diags Instruments 15:212-13 Je '42

RIVETING

Air-hydraulic riveting intensifier. il Engineer 173:316 Ap 10 '42; Engineering 153:376 My 8 '42; Automobile Eng 32:190, 191 My '42

Aircraft riveting. A. H. Nisita. 160p $2.50 McGraw-Hill '42

Aircraft riveting; a guide for the student. E. B. Lear and J. E. Dillon. 118p $1.25 Pitman '42

Blind rivets can be set from one side only. il Sci Am 166:252 My '42

Brush for cleaning area around rivet holes. il Sci Am 166:94-5 F '42

Chobert riveting machine-gun speeds aircraft work. il diags Steel 111:90, 92 O 12 '42; Aero Digest 41:186+ S '42

Chobert riveting machine in aircraft production. il diags Mach 49:184-5 S '42

Douglas designed aircraft riveters; combination drilling and riveting machines. il Iron Age 150:55 Jl 9 '42

Flush-riveting technique at Bell Aircraft. H. W. Ashburn. il diags Steel 110:56-9 Ja 26 '42

Holders for light sheet riveting. diags Iron Age 150:50-1 Jl 30 '42

Mechanism for inserting and heading tubular rivets; Chobert magazine riveting machine. diags Mach 48:131-2 Je '42

Murray air-timed automatic riveting gun controls work of novices. il Steel 111:48 O 26 '42

New riveting technique facilitates work in difficult places. il diag Automotive & Aviation Ind 86:31 Ap 1 '42

Riveting aluminum and its alloys. 35p Aluminum co. of Am, Pittsburgh '41

Riveting service truck. il Ry Mech Eng 116:121 Mr '42

Rivets and riveting. D. Graham. diags Sheet Metal Worker 33:27-8 Mr '42

Superseded; riveting machines replaced by new welders. Sci Am 167:156 O '42

Todd riveters set world record. il Marine Eng 47:127+ Jl '42

RIVETS

Cherry rivets. il J Aeronautical Sci Aeronautical R Sec 9:33 N '41

Controlling physical properties of rivets; Glenn L. Martin company technique. J. H. Eades. il Aero Digest 40:179-80, 183 My '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74 Mr 16 '42

Evaluation method for defective driven rivets. F. D. Klein, jr. il Aero Digest 39:154, 158, 162+ D '41

Flush-riveting technique at Bell Aircraft. H. W. Ashburn. il diags Steel 110:56-9 Ja 26 '42

Hollow rivets speed production. il diag Sheet Metal Worker 33:29 Je '42

Master boiler makers association report on application of rivets. il diags Ry Mech Eng 116:101-4 Mr '42

New rivet needs no dolly; can be applied by one man. il diag Iron Age 149:52 F 12 '42

New type of blind rivet. R. H. Gill. il diags Aero Digest 39:232+ D '41

New type rivets end blind riveting. J. J. Russell. il diag Aero Digest 40:239-40 My '42

Rivets as blind spot fasteners; Cherry rivet. A. Mullgardt. il Metals & Alloys 16:291 Ag '42

Structural rivets, Pittsburgh; prices, 1929-1941; tabulation. Steel 110:365 Ja 5 '42

Those explosive rivets. il diag Power Pl Eng 45:95 D '41

Manufacture

Manufacturing rivets for airplanes. M. W. Seavey. il diags Mach 48:105-12 My; 135-9 Je '42

Standards

Practical rivet standardization. L. J. Fila. diags Aero Digest 40:131-2, 134, 136, 187 Je '42

RIVETS—*Continued*

Testing

Physical properties of driven and undriven rivets of high-strength structural steels; progress report of the committee of the structural division on structural alloys. il diags Am Soc C E Proc 68:751-73 My '42

ROAD accidents

Fatal accidents in the black out. Light & Lighting 34:127; 35:13-14 S '41, Ja '42

Road accidents during two years of war. Light & Lighting 34:142 O '41; Same. Illum Eng 37:9 Ja '42

Road deaths analyzed. Economist 141:471 O 18 '41

See also

Automobile accidents
Grade crossing accidents
Roads—Lighting
Roads—Safety measures
Street accidents

ROAD contractors

Preference rating procedure applying to highway projects. Roads & Sts 84:74+ N '41

Directories

Contractors, Canada; roads, bridges, airports. Roads & Bridges 80:98-110 Jl '42

ROAD magnets. See Roads—Magnetic sweeping

ROAD making machinery

All used construction equipment earmarked for essential work; report on each individual machine must be filed with road-machinery administrator. il Roads & Bridges 80:19-20+ Jl '42

Austin-Western roller and bulldozer attachments for 99-M power grader. il Pub Works 73:44 Ag '42

Buying road equipment on the basis of performance; Ontario's hourly rental scheme of subsidizing machinery purchases. J. M. MacInnes. Roads & Bridges 80:70+ Mr '42

Construction equipment maintenance. il Roads & Sts 85:69-84 O '42

How to increase the life of road equipment. Roads & Bridges 80:56+ Ap '42

Improved mold board for road graders and patrols. A. B. Clinkscales, jr. il diags Roads & Sts 85:58+ Ag '42

Maintenance of tractors and tractor units. A. Lindley. il diag Roads & Sts 85:40-3 Ag; 36-9 S '42

Moving a million yards of wet clay. il Roads & Sts 85:66+ Mr '42

Personnel and functions of Advisory committee on road machinery. pors Roads & Bridges 80:22-3+ My '42

Preventative maintenance for bituminous distributors. W. E. Worcester. Roads & Sts 85:84 O '42

Roads and Streets road show. il Roads & Sts 85:61+ F '42

Scrapers and power shovels cooperate on Connecticut job. il plan Roads & Sts 84:36-8 D '41

Unusual set-up for a wagon drill; constructing road between Santa Fe and Taos. il Comp Air M 47:6868 O '42

Wartime control of roadbuilding equipment. il Roads & Bridges 80:19-20, 78, 80 My '42

See also

Road scrapers

Testing

Test compacting and finishing machinery for road construction. Concrete 50:8 N '42

ROAD materials

Application of rubber powder to asphalt road mixtures. G. J. Van Der Bie and P. T. Wijnhamer. Roads & Sts 84:36-40 N '41

Classification of soils and control procedures used in construction of embankments. H. Allen. il diags Pub Roads 22:263-82 F '42

Conservation of critical materials approved by executive committee of State highway officials' association. Roads & Sts 85:72 Ap '42

Conservation of critical materials; standards approved by the executive committee of the American association of state highway officials. Roads & Bridges 80:86-7 Ap '42

Grading and shape of commercial sizes of aggregates. A. H. D. Markwick. diags Soc Chem Ind J 61:85-91 Je '42

New type pavement from mine tailings, added to soil and cement mixtures. il Eng N 128:985-8 Je 18 '42

Preference rating procedure applying to highway projects. Roads & Sts 85:43-7 F '42

Sulphite liquor as a road builder. Paper Tr J 115:12 O 8 '42

Two keys to war plant speed; construction roads and local materials. Eng N 129:285-9 Ag 27 '42

See also

Asphalt
Bituminous materials
Cement
Concrete
Gravel
Limestone
Pavements
Road oils
Road tar
Sand
Stone, Crushed

Analysis

Rapid method of determining the binder and water contents of sand-bitumen and sand-tar carpets. C. M. Gough and E. H. Green. diag Soc Chem Ind J 61:91-3 Je '42

Testing

Effect of glassy slag on the stability and resistance to film stripping of bituminous paving mixtures. Pub Roads 22:209-12 N '41

Measurement of oxidation stability of road asphalts. A. P. Anderson, F. H. Stross and A. Ellings. bibliog Ind & Eng Chem Anal ed 14:45-9 Ja 15 '42

Oat-hull roads; furfural tried as binder in test highways. Business Week p70 Jl 11 '42

Tests of furfural as an anti-stripping agent; prevents stripping of asphalt from hydrophilic aggregates. A. S. Janssen. il Roads & Sts 85:41-8 S '42

Viscosity of liquid road asphalts measured in terms of scientific units; use of capillary-rise viscosimeter. J. Zapata, A. Rode and W. Doyle. il Eng N 128:915-17 Je 4 '42

ROAD oils

Coloured road binders; patents. Gas J (Lond) 239:175 Jl 29 '42

Contribution to the physical chemistry of the asphalts. J. M. Swanson. bibliog il J Phys Chem 46:141-50 Ja '42

See also

Asphalt

Specifications

Discussion of a new additional specification for asphaltic road oils. E. G. Swanson. il Roads & Sts 84:31-5+ D '41

Testing

Controlled reduction of road oil to 100-penetration consistency. T. W. Thomas and K. A. Maehl. il Eng N 129:432-3 S 24 '42

ROAD research. See Highway research

ROAD scrapers

Manufacture

Arc welded road scrapers. H. Chase. il Am Mach 86:706-8 Jl 9 '42

ROAD signs

Some aspects of highway maintenance in peace and war. C. R. Waters. il Civil Eng 12:496-7 S '42

ROAD tar

Coloured road binders; patents. Gas J (Lond) 239:175 Jl 29 '42

Coloured tar surface dressings; patent. Gas J (Lond) 237:129 Ja 28 '42

See also

Roads, Tarred

Testing

Performance tests for road tars; a report of the research (specifications) sub-committee of the British road tar association. bibliog diags Soc Chem Ind J 61:133-43 S '42: Excerpts. Roads & Bridges 80:52, 86-90 D '42

ROAD traffic

Decrease in trend of traffic volume indicated. Roads & Sts 85:37-9 My '42

Highway capacity; abstract. O. K. Normann. Roads & Bridges 80:94+ Mr '42

Highway transport in wartime. H. S. Fairbank. il Civil Eng 12:550-3 O '42

Minnesota rural highways show wide traffic range. Roads & Sts 85:68 Mr '42

Results of highway-capacity studies. O. K. Normann. diags Pub Roads 23:57-81 Je '42

Some characteristics of motor-vehicle travel. R. H. Paddock. map Pub Roads 23:17-29 Ap '42

Traffic engineering as applied to rural highways. M. Harris. il diags Am Soc C E Proc 67:829-52 My '41; Discussion. 67:1383-4, 1515-16, 1879-85; 68:167-8 S-O, D '41-Ja '42

Traffic volume and road costs. Roads & Sts 84:43 N '41

See also

Automobiles and roads
Highway engineering
Highway transportation
Motor trucks and roads
Street traffic
Traffic regulations
Traffic surveys

ROADMASTERS' and maintenance of way association

Annual meeting, 57th, Chicago, Sept. 15-17. Ry Age 113:492-5, 525-8 S 26-O 3 '42

ROADS

Design of highway sections for war and post-war needs. W. H. Simonson. il diags Roads & Sts 85:31-6 My '42

Engineering News-Record annual highway number. il diags Eng N 128:242-88 F 12 '42

Headline projects of 1941. il Eng N 128:130-1 Ja 15 '42

Highway economics. H. Tucker and M. C. Leager. 454p bibliog(p443-9) $4 International textbook co, Scranton, Pa. '42

Papers presented at the Highway conference, held at the University of Colorado on Jan. 8-9, 1942. 91p Univ. of Colorado, Boulder '42

Proceedings of the twenty-eighth annual road school, Purdue university, Jan. 19-22. B. H. Petty, ed. il diags map Purdue Univ Eng Ext Ser 53:1-184 '42

Stabilization of highway embankments. il Eng N 128:285-8 F 12 '42

Substitutes for critical materials for highways, bridges and culverts. Eng N 128: 824-5 My 14 '42

Two keys to war plant speed; construction roads and local materials. il Eng N 129: 285-9 Ag 27 '42

See also

Automobiles and roads
Highway administration
Highway engineering
Highway research
Highway transportation
Motor trucks and roads
Mountain roads
Pan American highway
Parkways
Pavements
Road making machinery
Road materials
Road traffic
Snow removal
Street railroads
Streets
Traffic engineering

Accidents

See Road accidents

Automobile roads

See Roads, Automobile; Roads, Elevated

Coloring

See Roads—Surfaces—Coloring

Congresses

See also

Pan-American highway congress

Construction equipment

Cleaning construction equipment. R. W. Mitchell. Roads & Sts 85:66 Ag '42

Preference rating procedure applying to highway projects. Roads & Sts 85:43-7 F '42

Road equipment purchases further restricted. Roads & Sts 85:81-4 Ap '42

Salvaging discarded equipment. B. W. Davis. il diag Roads & Sts 85:35 Je '42

Skillful use of construction equipment on heavy roadwork. E. B. Bail. il diag Roads & Sts 85:25-34 Je '42

See also

Road making machinery
Roads, Concrete—Construction equipment

Directories

Products index; with addresses of manufacturers and agents, Canada, for road and bridge construction equipment. Roads & Bridges 80:145-63 Jl '42

Construction management

Management contracts speed Alaska highway construction. il Roads & Bridges 80: 13-15+ Jl '42

See also

Roads, Concrete—Construction management

Contracts

California Coast road project. A. Walsh. il Roads & Sts 85:19-23 Jl '42

See also

Force account systems
Road contractors

Cost

Cloverleaf bridge and highway, Maryland; unit prices. Eng N 129:246 Ag 13 '42

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:210-26 Ap 23 '42

Highway and bridge, Mississippi; unit prices. Eng N 129:248 Ag 13 '42

Highway and bridge, Missouri; unit prices. Eng N 129:48 Jl 2 '42

Highway and bridges, Pennsylvania; unit prices. Eng N 129:508 O 8 '42

Highway, California; unit prices. Eng N 128: 755 Ap 30 '42

Highway, California; unit prices. Eng N 129: 448 S 24 '42

Highway, Georgia; unit costs. Eng N 129: 46+ Jl 2 '42

Highway improvements, Arizona; unit prices. Eng N 129:246 Ag 13 '42

Highway improvements, Nevada; unit prices. Eng N 128:432 Mr 12 '42

Highway, Michigan; unit costs. Eng N 129: 120 Jl 16 '42

Highway, Missouri; unit prices. Eng N 127: 853 D 11 '41

Highway, Nevada; unit prices. Eng N 129:48 Jl 2 '42

Highway, New Mexico; unit prices. Eng N 129:388 S 10 '42

Highway relocation, Washington; unit prices. Eng N 128:46 Ja 1 '42

Highway, Texas; unit prices. Eng N 128:508 Mr 26 '42

Highway, Wisconsin; unit costs. Eng N 129: 122 Jl 16 '42

Road programs of Ontario counties. Roads & Bridges 80:34+ F '42

Roadbuilding costs, 1922-1941. Eng N 128:718 Ap 23 '42

State road work and programs, 1941-1942. il Eng N 128:257-67 F 12 '42

Traffic volume and road costs. Roads & Sts 84:43 N '41

Cost of maintenance

See Roads—Maintenance and repair

Crossings

See Grade crossings; Roads—Grade separation; Roads—Intersections

Curves

Developments in curve design, speed and sight distance. C. M. Noble. diags Roads & Sts 85:25-31 Ja '42

ROADS—Curves—*Continued*

Vertical curves for highways. D. W. Loutzenheiser. tables Pub Roads 23:89-94 Jl-S '42

Damage from floods, etc.

Repairing damage from May 1942 flood in Pennsylvania. J. L. Herber. il map Civil Eng 12:620-3 N '42

Drainage

Control of underground water; discussion of subdrainage practice. M. J. Adams. il diags Pub Works 72:23-4, 26+ N; 24-7+ D '41

Creosoted wood-stave drainage pipes on George VI highway. H. N. Macpherson. il Can Eng R & B 79:19+ D '41

Design of roadside drainage channels. C. F. Izzard. Pub Roads 23:1-4, 13-14 Mr '42; Same cond. Pub Works 73:32, 34, 38+ S '42

Drainage problems on new Lake Mead road. G. D. Whittle. il map Civil Eng 12:196-8 Ap '42

Draining to prevent slippage of a road fill. il Pub Works 73:23-4+ Jl '42

How to cure wet subgrades. H. E. Cotton. il diags Roads & Bridges 80:27-9+ Ag '42

Soil mechanics applied to soil drainage. J. D. Watson. diags Roads & Sts 85:36-7 Mr '42

Wet subgrades, their cause and cure. H. E. Cotton. diags Roads & Sts 85:42, 44, 46+ My '42

Economic aspects

Construction of roads in the North is profitable undertaking; how highway transportation has helped to develop northern Ontario. R. M. Smith. Roads & Bridges 80:88+ Mr '42

Economic factors involved in proposed highway construction. W. L. Anderson. Roads & Sts 85:38-41 Mr '42

Necessity of conserving the investment in municipal roads. G. R. Marston. Roads & Bridges 80:86+ Mr '42

Ohio analyzes its highways. J. R. Smart. il Civil Eng 12:313-15 Je '42

Relation of road development to national economy. C. M. Upham. Roads & Bridges 80:104 Mr '42

Some characteristics of motor-vehicle travel. R. H. Paddock. map Pub Roads 23:17-29 Ap '42

Federal aid

Concentrate postwar highway planning on urban areas. Eng N 129:401 S 24 '42

Defense highway bill signed by the President. Eng N 127:755-6 N 27 '41

Federal aid for defense roads; table. Pub Works 73:38 Ja '42

Highway funds for fiscal year 1942 allocated to highway departments. Eng N 128:57 Ja 8 '42

Luxury roads in new highway act. Ry Age 111:925-6 N 29 '41

President Roosevelt signs road bill, urges Congress to eliminate non-defense items. Comm & Fin Chr 154:1215 N 27 '41

Programming federal aid projects essential to the national defense. Roads & Sts 85:42-3 F '42

Revised defense road bill sent to President by Congress. Eng N 127:683 N 13 '41

Save the federal aid highway principle; the story of what it is; how it operates and the attacks against it. 37p Nat. highway users conference, Nat. press bldg, Washington, D.C. '42

Status of federal-aid highway projects. Published in monthly numbers of Public roads

$220,000,000 of new federal funds now available for defense highways. Roads & Sts 84:49 D '41

Finance

Access roads and strategic network. Eng N 128:271-2 F 12 '42

American highway policy. C. L. Dearing. 286p $3 Brookings institution, Washington, D.C. '42

Analysis of highway costs and highway taxation with an application to Story county, Iowa. E. D. Allen. Iowa Eng Exp Sta (Ames) Bul 152:1-128 '41

Application of random sampling to fiscal studies; determining highway expenditures by several units of government. T. M. C. Martin. map Pub Roads 22:199-208+ N '41

Dedication of special highway revenues to highway purposes; an analysis of the desirability of protecting highway revenues through amendments to state constitutions. 10p pa 15c Nat. highway users conference, Washington, D.C. '41

Highway economics. H. Tucker and M. C. Leager. 454p bibliog(p443-9) $4 International textbook co, Scranton, Pa. '42

Highways in America; economic and strategic considerations. Index 21 no 4:80-7 [D] '41

Illinois highway bureau sees sharp revenue drop. Eng N 128:951 Je 11 '42

Nation's highway departments make plans to meet present, postwar needs. Eng N 129:465 O 8 '42

Over one billion spent on highways in 1940. Eng N 127:704 N 20 '41

Post war highway economics. C. M. Upham. Boston Soc C E J 29:50-8 Ja '42

Roadbuilding in 1941; money and miles. il Eng N 128:268-70 F 12 '42

Roads under war restrictions. il Eng N 129: 484-8, 555-7, 627-30 O 8, 22, N 5 '42

State highway construction; mileage completed and expenditures in 1940 and probable mileage and expenditures in 1942. Roads & Sts 85:65-6+ Ja '42

See also

Roads—Federal aid

Flight strips

See Aviation landing stations

Foundations

Base stabilization with soil as stabilizing agent. M. Quinn. il Pub Works 73:13-14 Je '42

See also

Roads—Subgrades

Concrete

Experience with the Adherit concrete road; abstract. K. Krah. Roads & Bridges 80:76 Ag '42

Tests of monolithic brick pavement slabs. W. F. Kellermann. il Pub Roads 23:85-8, 97-8 Jl-S '42

Frost damage

Lessons from frost damage to roads; abstract. L. Casagrande. Roads & Bridges 80:100 F '42

Salt roads wear better, resist frost. Sci Am 167:26 Jl '42

Spring maintenance of county roads. H. B. Olsen. il Pub Works 73:11-12+ Mr '42

Grade separation

Constructing Colorado's first clover leaf. E. F. Williams. il plans Roads & Sts 85:54+ Ap '42

Contractor invades territory of general mud; grade separation project in Arizona. P. F. Glendening. il Roads & Sts 85:25-30 Ap '42

Michigan builds grade-separation projects of tri-level type. il Concrete 50:4-5 O '42

See also

Roads, Elevated

Grading

Moving a million yards of wet clay. il Roads & Sts 85:66+ Mr '42

Ice control

Ice prevention replaces ice removal in New Hampshire. il Pub Works 73:33-5 Ag '42

Minnesota's ice control system. H. C. Jahnke. il Pub Works 73:23-4 Ag '42

Principles of winter road maintenance; Ontario department of highways. J. D. Millar. il diags map Roads & Bridges 80:36-8+ O '42

Safety on highways in winter. Pub Works 73:68 O '42

Salt shatters snow and ice crusts. il Roads & Sts 85:57, 60 F '42

ROADS—Ice control—*Continued*

Selection of equipment for snow removal and ice control. C. L. Motl. il Roads & Bridges 80:41-2, 86, 88+ O '42

Winter maintenance on the Pennsylvania Turnpike. H. F. Webber. il Roads & Sts 84:31-3 N '41

Intersections

Intersections reconstruction practically eliminated accidents. plans Roads & Sts 85:78 Ap '42

Lighting

Better visibility and safer night transportation. Illum Eng 37:2 Ja '42

Dim-out tests on highways. Roads & Bridges 80:129 O '42

Highway lighting research. Roads & Bridges 80:110-11 Mr '42

Regulators aid sodium lighting operation; operating data on Tacoma highway lighting installations. P. A. Brown. il diags Elec West 88:38-9 Ja '42

Magnetic sweeping

Road magnet picks up 5,715 lbs. of metal. R. M. Whitton. il Roads & Sts 85:43 Jl '42

Maintenance and repair

Handbook for road repair crews. 44p U.S. Office of civilian defense, Washington '41

Highway maintenance, P-22, priority rules amended. Roads & Sts 84:66, 68, 70 N '41

Highway research board report on maintenance operations. Roads & Bridges 80:112-15, 117 Mr '42

Importance of maintenance to low-cost roads. B. H. Petty. il Roads & Sts 85:23-7 My '42

Maintaining 750 miles of road, and building 50 miles of new for $60,000; Elk county, Kansas. J. J. Wardrip. il Pub Works 73:14-16+ Ap '42

Maintenance cost reduced by a California county. il Roads & Sts 84:29-30 N '41

Maintenance problems of California Coast highway. T. H. Dennis. il Roads & Sts 85:32-4 Jl '42

New amendments to preference rating order P-22 priority. Roads & Sts 84:52-4+ D '41

New developments in highway maintenance. R. H. Steketee. il Roads & Sts 85:54, 67-8+ Je '42

Problems connected with landslides; abstract. T. H. Dennis and R. J. Allan. Roads & Bridges 80:79-80 Ja '42

Soil stabilization and maintenance considered at Highway research board annual meeting, Baltimore, Dec. 2-5. Eng N 128:35-7 Ja 1 '42

Some aspects of highway maintenance in peace and war. C. R. Waters. il Civil Eng 12:496-9 S '42

Utilizing WPA labor during winter months; Ravalli county, Montana. H. H. Benson. il Pub Works 72:11+ N '41

See also

Roads—Surface treatment

Snow removal

Mileage

Road mileages in Canada. Roads & Bridges 80:38 Jl '42

Military use

Access roads and strategic network. Eng N 128:271-2 F 12 '42

Approve Detroit express highway job. Eng N 128:1034 Je 25 '42

Better highways for national defense. L. I. Hewes. il Civil Eng 12:10-12 Ja '42

Contractor and WPA build access road to Ft. Bragg. il Eng N 127:722-3 N 20 '41

Highways to meet Canada's wartime needs. H. S. Fairbank. Roads & Bridges 80:76+ O '42

How Missouri builds access roads. il diag map Eng N 129:412-14 S 24 '42

Many Americans advocate second Alaska highway; reply to criticisms in Pic magazine. il map Roads & Bridges 80:32-3, 85 S '42

Maryland access road project. A. F. Shure il diags Roads & Sts 85:24-7 Jl '42

Nazis find super-roads can't supplant railways. Ry Age 112:1246 Je 27 '42

Speed in construction of access road. M. B. Hodges. il Roads & Sts 85:38-40 Jl '42

Wartime importance of highway transportation. P. R. Walters. Roads & Bridges 80:50 My '42

See also

Highway administration—War measures

Roads, Military

Protection

Cotton fabric for erosion control; experiments on roadside slopes and ditches in Mississippi. W. B. King. il Pub Roads 23:94-6 Jl-S '42; Excerpts. Eng N 129:547 O 22 '42

Metal crib retaining wall holds fill on mountainside. il Roads & Sts 84:50-1 D '41

Planted snow fences. M. W. Torkelson. il Eng N 129:408-9 S 24 '42

Planting to control drifts on highways; with cost data. C. G. Bates and J. H. Stoeckeler. il diags Eng N 129:92-6 Jl 16 '42

Stabilizing highway slopes; abstract. H. D. Bowers. Pub Works 73:42-3 S '42

Unusual treatment of highway slopes; how they were protected from erosion; abstract. D. J. Deyoe. il Pub Works 73:30+ S '42

Resurfacing

Ensuring a smooth-riding surface on resurfaced pavements. il Can Eng R & B 79:23+ D '41

See also

Roads—Surface treatment

Safety measures

Bottlenecks eliminated on a dangerous piece of road at Yuma, Arizona. J. C. Coyle. il Pub Works 73:25-6 S '42

Chemistry helps solve Britain's black-out perplexities. For Comm W 5:44 N 15 '41

New method for fixing no-passing zone limits. Roads & Sts 85:83-4 Mr '42

Ohio defense highway to reduce accidents; highway flanked by deep ditch replaced with four-lane surface. il Pub Works 73:32+ My '42

Psychology in highway design. S. M. Spears. W Soc E J 46:275-87 D '41

Traffic engineering as applied to rural highways. M. Harris. il diags Am Soc C E Proc 67:829-52 My '41; Discussion. 67:1383-4, 1515-16, 1879-85; 68:167-8 S-O, D '41-Ja '42

See also

Grade crossings

Roads—Grade separation

Roads—Ice control

Roads—Lighting

Traffic lines

Traffic regulations

Slipperiness

See also

Roads—Ice control

Snow barriers

See Snow barriers

Stabilization

See Roads—Subgrades; Roads, Earth; Roads, Gravel—Stabilization

Standards

Conservation of critical materials; standards approved by the executive committee of the American association of state highway officials. Roads & Bridges 80:86-7 Ap '42

Standards of construction for roads of various types in the province of Quebec. E. H. Gohier. il Can Eng R & B 79:19-21, 52+ N '41

Statistics

Roadbuilding in 1941; money and miles. il Eng N 128:268-70 F 12 '42

State highway construction; mileage completed and expenditures in 1940 and probable mileage and expenditures in 1942. Roads & Sts 85:65-6+ Ja '42

ROADS—Statistics—*Continued*

State road work and programs, 1941-1942. il Eng N 128:257-67 F 12 '42

Survey of highways in Latin America. B. P. Root. il Roads & Bridges 80:30-2+ My '42

Survey of the world's highways; road and motor-vehicle statistics for all countries of the globe. B. P. Root. il Roads & Bridges 80:32-4+ Ap '42

Subgrades

California Coast road project. A. Walsh. il Roads & Sts 85:19-23 Jl '42

Design and control of flexible pavement construction. W. H. Campen and J. R. Smith. il Roads & Sts 84:39-41 D '41

Designing foundation courses for highway surfaces; abstract. F. J. Grumm. Roads & Bridges 80:76 F '42

Emulsified asphalt stabilized base construction; with cost data; Coahoma county, Miss. B. T. Collier. il Pub Works 72:18-19 N '41

Explanation of many roadway and runway failures. H. C. Porter. Roads & Bridges 80:84 O '42

How to cure wet subgrades. H. E. Cotton. il diags Roads & Bridges 80:27-9+ Ag '42

Important developments in asphaltic surfacings. B. E. Gray. Roads & Sts 85:36-7 Ja '42

Kansas completes bituminous stabilized soil base. J. R. Benson. il Roads & Sts 84:44-5 N '41

Stabilizing soils for base courses and highway surfacing. L. D. Hicks. il Eng N 128:248-53 F 12 '42

Studies of soil-aggregate base-course mixtures. J. B. Garneau and C. E. Beland. Roads & Bridges 80:28-9, 75+ My '42; Same. Roads & Sts 85:56, 58, 60-1 Je '42

Trends in asphalt pavement design. B. E. Gray. il Eng N 128:242-3 F 12 '42

Vinsol resin, a new soil stabilizer. il Eng N 128:777-81 My 7 '42

Wet subgrades, their cause and cure. H. E. Cotton. diags Roads & Sts 85:42, 44, 46+ My '42

Superhighways

Pennsylvania Turnpike; one year's operation. T. J. Evans. il Civil Eng 12:179-82 Ap '42

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

Surface treatment

Bituminous treatment of sandy soil roads in Nebraska. P. F. Critz and C. M. Duff. il Pub Roads 22:215-30 D '41

Experiments with thin bituminous surfacings for roads. R. Slater. Roads & Bridges 80:62+ Ag '42

Maintenance of bituminous macadam surfaces. J. E. Lawrence. il Pub Works 73.11-13+ S '42

Maintenance organization aids defense project in Texas. M. B. Hodges. il Roads & Sts 85:52+ Mr '42

Unit cost of bituminous surface-treatment on Ottawa suburban roads. A. K. Hay. il Roads & Bridges 80:25+ My '42

See also
Roads, Tarred

Surfaces

Field and laboratory investigation of traffic paints; abstract. W. H. Goetz. Roads & Bridges 80:105-6 Mr '42

Measuring unevennesses of road surfaces. Pub Works 73:31-2 Jl '42

Military roads in the United States. Engineer 174:149-50, 166-8 Ag 21-28 '42

Stabilizing soils for base courses and highway surfacing. L. D. Hicks. il Eng N 128:248-53 F 12 '42

See also
Pavements
Roads—Surface treatment
Streets

Coloring

Coloured road binders; patents. Gas J (Lond) 239:175 Jl 29 '42

Coloured tar surface dressings; patent. Gas J (Lond) 237:129 Ja 28 '42

Traffic lines

See Traffic lines

Widening

Bottlenecks eliminated on a dangerous piece of road at Yuma, Arizona. J. C. Coyle. il Pub Works 73:25-6 S '42

Force account concrete pavement widening project. il Roads & Sts 85:28-30 My '42

Ohio highway defense job eliminates ditch hazard. il Roads & Sts 84:51 D '41

Reconstruction of old pavements on heavily traveled highways. E. T. Baker. il diags Roads & Sts 85:42-7, 50+ Je '42

Widening an 18-foot concrete road; abstract. W. H. Burgwin. diags Pub Works 73:42-3 My '42

Winter maintenance

See Roads—Ice control; Snow removal

Africa

Needed: a trans-African road for war. H. P. Gillette. Roads & Sts 85:54 Ag '42; Discussion. 85:72-3 S '42

Alabama

Alabama improves road into Birmingham. il map Eng N 129:190-1 Ag 6 '42

Alaska

Governments agree on Alaska highway. Eng N 128:459 Mr 26 '42

Highway from Alaska to the United States; objection to route. Science 95:sup 12+ Mr 20 '42

Arizona

Arizona develops economic highways. W. R. Hutchins. il Civil Eng 12:427-30 Ag '42

Australia

Highway link across Australia built rapidly as a defense job. Eng N 128:865 My 21 '42

Brazil

Brazilian highway rushed. il Business Week p100 O 10 '42

Roads for Maranhao seen as the key to increased South American babassu production. J. B. Gordon. il Soap & San Chem 18:23-5+ Jl '42

Strategic highway in Brazil. il Eng N 129:455 O 1 '42

British Columbia

Creosoted wood-stave drainage pipes on George VI highway. H. N. Macpherson. il Can Eng R & B 79:19+ D '41

Burma

See also
Burma road

California

Building the Angeles Forest highway. E. A. Burt. il map Civil Eng 12:147-9 Mr '42

California Coast road project. A. Walsh. il Roads & Sts 85:19-23 Jl '42

Divided highways in California. F. Grumm. il diags Eng N 128:176-9 Ja 29 '42

Maintenance problems of California Coast highway. T. H. Dennis. il Roads & Sts 85:32-4 Jl '42

1941 pavement construction records in California. Roads & Sts 85:46 Ag '42

Soil mechanics studies and reconstruction work; protecting pumping station from slides; Grapevine grade on U.S. 99. V. J. Brown. il diags plan Roads & Sts 85:25-32 Mr '42

Canada

All used construction equipment earmarked for essential work; report on each individual machine must be filed with road-machinery administrator. il Roads & Bridges 80:19-20+ Jl '42

Building the Alaska highway. il Eng N 129:392-3 S 17 '42

Canada's wartime roadbuilding. T. G. Morgan. Roads & Bridges 80:122, 124-6 Mr '42

ROADS—Canada—*Continued*

Canadian-Alaskan highway. Engineer 174:277 O 2 '42

Creosoted-timber culverts on the Alaska highway. il Roads & Bridges 80:44+ O '42

Directory, provincial highway officials; organization charts of 9 provincial highways departments, Canada. Roads & Bridges 80: 40-56 Jl '42

Governments agree on Alaska highway. Eng N 128:459 Mr 26 '42

Highway from Alaska to the United States; objection to route. Science 95:sup 12+ Mr 20 '42

Highways to meet Canada's wartime needs. H. S. Fairbank. Roads & Bridges 80:76+ O '42

Improved roads increase travel to national parks. Roads & Bridges 80:81 Ja '42

Management contracts speed Alaska highway construction. il Roads & Bridges 80: 13-15+ Jl '42

Many Americans advocate second Alaska highway; reply to criticisms in Pic magazine. il map Roads & Bridges 80:32-3, 85 S '42

Oil for the Alaska highway. J. Montagnes. Science 96:sup12 O 2 '42

Ontario passage; border shortcut is won for trucks bearing war goods. Business Week p14-15 Ag 1 '42

Personnel and functions of Advisory committee on road machinery. pors Roads & Bridges 80:22-3+ My '42

Profiting by experience in road construction, maintenance and administration. E. F. Willis. Can Eng R & B 79:26+ D '41

Report on proposed highway through British Columbia and the Yukon territory to Alaska. 2v British Columbia-Yukon-Alaska highway commission, Ottawa '41

Road mileages in Canada. Roads & Bridges 80:38 Jl '42

Route chosen for highway to Alaska; map. Eng N 128:515 Ap 2 '42

Trends in cement-concrete paving. D. O. Robinson. il Roads & Bridges 80:21-3 F '42

Twenty-five to thirty millions; estimated cost of British Columbia-Yukon-Alaska highway. map Can Eng R & B 79:22+ D '41

Wartime control of roadbuilding equipment. il Roads & Bridges 80:19-20, 78, 80 My '42

Work commences on the construction of the Alaska highway. il map Roads & Bridges 80:30-1+ Ap '42

China

See also
Burma road

Colorado

Land use planning in relation to highways, with specific reference to Delta county. W. J. Keller. maps Pub Roads 23:5-13 Mr '42

Roads under war restrictions. Eng N 129: 629-30 N 5 '42

Connecticut

Connecticut experiments with novel highway marking. G. S. Beebe. il Civil Eng 12:156 Mr '42

Cox, Connecticut highway commissioner is cleared of all misconduct charges. Eng N 129:188-9 Ag 6 '42

Scrapers and power shovels cooperate on Connecticut job. il plan Roads & Sts 84: 36-8 D '41

Florida

Florida takes over Key West road job. Eng N 129:189 Ag 6 '42

Idaho

Project performance record as used in Idaho. C. C. Hallvik. Roads & Sts 85:70, 72 Mr '42

Illinois

Illinois highway bureau sees sharp revenue drop. Eng N 128:951 Je 11 '42

Iowa

Roads under war restrictions. Eng N 129: 627-8 N 5 '42

Kansas

Kansas completes bituminous stabilized soil base. J. R. Benson. il Roads & Sts 84:44-5 N '41

Kentucky

Heavy rock work features Kentucky road. il Eng N 129:305-7 Ag 27 '42

Latin America

Survey of highways in Latin America. B. P. Root. il Roads & Bridges 80:30-2+ My '42

Louisiana

Contractor's organization worked smoothly; Louisiana road work; with cost data. E. M. Gillen. il diags map Roads & Sts 85:36-41 F '42

Manitoba

Snow control with plows in Manitoba, Canada. map Roads & Sts 84:58-9 D '41

Maryland

Maryland access road project. A. F. Shure. il diags Roads & Sts 85:24-7 Jl '42

Massachusetts

Maintenance of bituminous macadam surfaces. J. E. Lawrence. il Pub Works 73: 11-13+ S '42

Mexico

Construction hits new high in Mexico. A. N. Carter. il Eng N 128:613-14 Ap 23 '42

Highway loan of $30,000,000 to Mexico. For Comm W 5:18 D 6 '41

Mexican highway program for 1942. C. Bazan. For Comm W 6:19 Mr 21 '42

Michigan

Highway construction in the post-war period. G. D. Kennedy. il Civil Eng 12:381-4 Jl '42

Operating an information service on winter road conditions; how weather forecasting data are used in Michigan. B. R. Downey. Roads & Bridges 80:118+ O '42

Roads under war restrictions. Eng N 129: 486-7 O 8 '42

Middle western states

Road facilities for farms in Middle West. Roads & Sts 85:34 Je '42

State road work and progams, 1941-1942. il Eng N 128:262-4 F 12 '42

Minnesota

Minnesota rural highways show wide traffic range. Roads & Sts 85:68 Mr '42

Minnesota's ice control system. H. C. Jahnke. il Pub Works 73:23-4 Ag '42

Roads under war restrictions. Eng N 129: 556-7 O 22 '42

Missouri

Consolidated clay-aggregate roads in Missouri. R. M. Whitton. il Roads & Sts 84: 41-3 N '41

How Missouri builds access roads. il diag map Eng N 129:412-14 S 24 '42

Nebraska

Bituminous treatment of sandy soil roads in Nebraska. P. F. Critz and C. M. Duff. il Pub Roads 22:215-30 D '41

Roads under war restrictions. Eng N 129: 557 O 22 '42

Nevada

Drainage problems on new Lake Mead road. G. D. Whittle. il map Civil Eng 12:196-8 Ap '42

New England

State road work and programs, 1941-1942. il Eng N 128:258-9 F 12 '42

New Hampshire

Ice prevention replaces ice removal in New Hampshire. il Pub Works 73:33-5 Ag '42

New Jersey

Consider reorganizing Jersey bureau. Eng N 129:188 Ag 6 '42

ROADS—*Continued*

New Mexico

Skillful use of construction equipment on heavy roadwork. E. B. Bail. il diag Roads & Sts 85:25-34 Je '42

New York (state)

Roadbuilding in the good old days; New York road construction early in the century. C. T. Fisher. il Eng N 128:849-52 My 21 '42

New York metropolitan district

Emergency road net laid out for New York metropolitan district; secondary roads for use by civil population in emergency requiring use of main highways for military purposes. il map Eng N 128:560-1 Ap 9 '42

Parkways in New York metropolitan area. S. M. Shapiro. il map Civil Eng 12:239-42 My '42

North Carolina

North Carolina standard specifications for roads and structures. 459p North Carolina State highway and public works commission, Raleigh '42

Ohio

Ohio analyzes its highways. J. R. Smart. il Civil Eng 12:313-15 Je '42

Ohio defense highway to reduce accidents; highway flanked by deep ditch replaced with four-lane surface. il Pub Works 73: 32+ My '42

Report of the Ohio highway planning survey, 1940. 120p Ohio highway planning survey, Ohio-Hartman bldg, 275 S. 4th st, Columbus '41

Roads under war restrictions. il Eng N 129: 484-6 O 8 '42

Two extremes in Ohio's concrete highways. il Concrete 50:4 Je '42

Ontario

Bridge features on the dual highway from Highland Creek to Oshawa. V. S. Murray. il diag map Roads & Bridges 80:26-9+ F '42

Can the Meteorological service help to improve winter road maintenance? J. Patterson. il Roads & Bridges 80:39-40, 92+ O '42

Completion of Ontario section, trans-Canada highway. il map Roads & Bridges 80:45-6+ O '42

Construction of roads in the North is profitable undertaking; how highway transportation has helped to develop northern Ontario. R. M. Smith. Roads & Bridges 80: 88+ Mr '42

Construction problems on the final link of the trans-Canada highway in northern Ontario. T. F. Francis. il Roads & Bridges 80:24-7+ Ja '42

Necessity of conserving the investment in municipal roads. G. R. Marston. Roads & Bridges 80:86+ Mr '42

Ontario good roads association 40th annual meeting, Toronto, Feb. 25-26. Roads & Bridges 80:25-30+ Mr '42

Principles of winter road maintenance; Ontario department of highways. J. D. Millar. il diags map Roads & Bridges 80:36-8+ O '42

Protecting the bridges on the Queen Elizabeth way; blast-plate protection against locomotive stack blasts and gases. A. Sedgwick. il diag Roads & Bridges 80:28-30 Ja '42

Road contractors of Ontario hold annual meeting. Roads & Bridges 80:31-5 Mr '42

Road programs of Ontario counties. Roads & Bridges 80:34+ F '42

Snowplowing program in Bruce county. G. E. Stephenson. Roads & Bridges 80:106 O '42

Toronto-Oshawa dual highway. C. A. Robins. il map Roads & Bridges 80:24-5+ F '42

Trans-Canada highway between Longlac and Hearst; preliminary report on geology. E. L. Evans. maps Can Min J 63:27-8 Ja '42

Unit cost of bituminous surface-treatment on Ottawa suburban roads. A. K. Hay. il Roads & Bridges 80:25+ My '42

Panama

Eastern Panama explored for possible highway route. R. Tewkesbury. il Roads & Sts 85:33-5 Mr '42

Trans-Isthmian and Chorrera-Rio Hato highway completed. Roads & Sts 85:60 Ag '42

Trans-Isthmian highway. il(p102, 103) map Engineering 153:101 F 6 '42

Pennsylvania

Artery for war; Pennsylvania's Turnpike used by 1,000 trucks a day. il Business Week p40+ O 10 '42

First year operation of Pennsylvania Turnpike. Eng N 127:688 N 13 '41; Same. Can Eng R & B 79:18 D '41

Pennsylvania Turnpike; one year's operation. T. J. Evans. il Civil Eng 12:179-82 Ap '42

Pennsylvania Turnpike u-h-f traffic control system. il diags plans Electronics 15:34-51 My '42

Reconstruction of old pavements on heavily traveled highways. E. T. Baker. il diags Roads & Sts 85:42-7, 50+ Je '42

Roadbuilding in the Pennsylvania mountains; illustrations. Comp Air M 46:6587-8 N '41

Winter maintenance on the Pennsylvania Turnpike. H. F. Webber. il Roads & Sts 84:31-3 N '41

Peru

Trans-Andean highway links Amazon. E. W. James. il map For Comm W 8:8-10 Ag 8 '42

Philippine Islands

American equipment speeds Philippine defenses. J. J. Halsema. il map Roads & Sts 84:64, 66+ D '41

Quebec

Dual highways on Montreal island. A. Bergeron. il Can Eng R & B 79:13-15 D '41

Dual-type limited-access highway from Montreal to Quebec. J. Langevin. il Can Eng R & B 79:17-18+ N '41

First stage of dual highway; Montreal to New York state border. A. Bergeron. il Can Eng R & B 79:15-16+ N '41

Standards of construction for roads of various types in the province of Quebec. E. H. Gohier. il Can Eng R & B 79:19-21, 52+ N '41

Saskatchewan

Building a road by unusual methods under difficult conditions in northern Saskatchewan. W. M. Stewart. il map Roads & Bridges 80:21-4+ Ap '42

Highway progress in the province of Saskatchewan. Roads & Bridges 80:92-3 Ap '42

South Africa

Highway research in the Union of South Africa. B. H. Knight. il Chem & Ind 60: 894-6 D 20 '41

Southern states

State road work and programs, 1941-1942. Eng N 128:260-2 F 12 '42

Texas

Speed in construction of access road. M. B. Hodges. il Roads & Sts 85:38-40 Jl '42

Texas road construction in the emergency. F. Burkett. il Civil Eng 12:493-5 S '42

United States

Better highways for national defense. L. I. Hewes. il Civil Eng 12:10-12 Ja '42

Concentrate postwar highway planning on urban areas. Eng N 129:401 S 24 '42

Defense highway bill signed by the President. Eng N 127:755-6 N 27 '41

Highway construction in the post-war period. G. D. Kennedy. il Civil Eng 12:381-4 Jl '42

Highway construction in war time economy; American road builders' association, Defense highway congress, Memphis, March 2-5. Rock Prod 45:88+ Ap '42

ROADS—United States—*Continued*

Highways during and after the war; abstract. H. S. Fairbank. Rock Prod 45:46-7 Mr '42

Highways in America; economic and strategic considerations. Index 21 no 4:80-7 [D] '41

Looking ahead in transportation. V. T. Boughton. il Eng N 128:88-91 Ja 15 '42

Nation's highway departments make plans to meet present, postwar needs. Eng N 129: 465 O 8 '42

Post war highway economics. C. M. Upham. Boston Soc C E J 29:50-8 Ja '42

Preference rating procedure applying to highway projects. Roads & Sts 85:43-7 F '42

President Roosevelt signs road bill, urges Congress to eliminate non-defense items. Comm & Fin Chr 154:1215 N 27 '41

Priority ratings established for highway construction. Roads & Sts 84:64 N '41

Roads under war restrictions. il Eng N 129: 484-8, 555-7, 627-30 O 8, 22, N 5 '42

Some characteristics of motor-vehicle travel. R. H. Paddock. map Pub Roads 23:17-29 Ap '42

State highway bureaus survey effect of stop-order on road construction. Eng N 128: 596 Ap 23 '42

State highway construction; mileage completed and expenditures in 1940 and probable mileage and expenditures in 1942. Roads & Sts 85:65-6+ Ja '42

State road work and programs, 1941-1942. il Eng N 128:257-67 F 12 '42

Strategic highway work includes large mileage; abstract. T. H. MacDonald. Eng N 127:100 N 20 '41

Wartime road problems. R. W. Crum. il Civil Eng 12:601-2 N '42

See also

Roads—Federal aid

Utah

Roads under war restrictions. il Eng N 129: 628-9 N 5 '42

West Virginia

West Virginia builds defense roads. W. C. Blizzard. il Roads & Sts 84:42-3 D '41

Western states

State road work and programs, 1941-1942. il Eng N 128:264-7 F 12 '42

Wisconsin

Application of random sampling to fiscal studies; determining highway expenditures by several units of government. T. M. C. Martin. map Pub Roads 22:199-208+ N '41

Double tracking on U.S. route 12 to serve war industry; with cost data. il diags Roads & Sts 85:35-40 O '42

Roads under war restrictions. il Eng N 129: 487-8 O 8 '42

Wisconsin's concrete highway culverts eliminate steel reinforcement. diags Concrete 50:8 O '42

Wyoming

Roads under war restrictions. il Eng N 129: 555-6 O 22 '42

Yukon

Twenty-five to thirty millions; estimated cost of British Columbia-Yukon-Alaska highway. map Can Eng R & B 79:22+ D '41

ROADS, Asphalt

See also

Pavements, Asphalt

ROADS, Automobile

Current divided-highway design practices. il diags Eng N 128:273-8 F 12 '42

Pennsylvania Turnpike; one year's operation. T. J. Evans. il Civil Eng 12:179-82 Ap '42

Relieving platform bulkhead for New York's East River drive. L. C. Hammond. il diags Civil Eng 12:251-4 My '42

See also

Roads, Elevated

ROADS, Bituminous

Application of rubber powder to asphalt road mixtures. G. J. Van Der Bie and P. T. Wijnhamer. Roads & Sts 84:36-40 N '41

Base stabilization with soil as stabilizing agent. M. Quinn. il Pub Works 73:13-14 Je '42

Bituminous roads in Winnebago county. A. R. Carter. In Ill U Eng Exp Sta Circ 42:43-7 '42

Bituminous treatment of sandy soil roads in Nebraska. P. F. Critz and C. M. Duff. il Pub Roads 22:215-30 D '41

Bottlenecks eliminated on a dangerous piece of road at Yuma, Arizona. J. C. Coyle. il Pub Works 73:25-6 S '42

Contractor builds access road by management contract. il diags Roads & Sts 85:44, 48, 50 Mr '42

Contractor invades territory of general mud; grade separation project in Arizona. P. F. Glendening. il Roads & Sts 85:25-30 Ap '42

Cotton fabric reinforcement in bituminous surfacing. S. Hallberg and A. Hjelmer. Roads & Bridges 80:78+ S '42

Discussion of a new additional specification for asphaltic road oils. E. G. Swanson. il Roads & Sts 84:31-5+ D '41

Effect of glassy slag on the stability and resistance to film stripping of bituminous paving mixtures. Pub Roads 22:209-12 N '41

Ensuring a smooth-riding surface on resurfaced pavements. il Can Eng R & B 79: 23+ D '41

Experience with the Adherit concrete road; abstract. K. Krah. Roads & Bridges 80: 76 Ag '42

Experiments with light bituminous re-seals. Roads & Bridges 80:76-7 Ag '42

Experiments with thin bituminous surfacings for roads. R. Slater. Roads & Bridges 80:62+ Ag '42

Heavy rock work features Kentucky road. il Eng N 129:305-7 Ag 27 '42

Important developments in asphaltic surfacings. B. E. Gray. il Roads & Sts 85:36-41 Ja '42

Kansas completes bituminous stabilized soil base. J. R. Benson. il Roads & Sts 84:44-5 N '41

Maintenance organization aids defense project in Texas. M. B. Hodges. il Roads & Sts 85:52+ Mr '42

Soil classification and its bearing on soil stabilization. A. H. D. Markwick. bibliog Inst Pet J 27:313-28; Discussion. 344-7 O '41

Some things Indiana has learned about black-top roads. B. H. Petty. In Ill U Eng Exp Sta Circ 42:30-8 '42

Specifications for bituminous surfaces for highways and airport runways. il Pub Works 73:21-4 F; 26-34 Mr; 19-20, 36-9 Ap '42

Stabilizing soils for base courses and highway surfacing. L. D. Hicks. il Eng N 128:248-53 F 12 '42

Trends in asphalt pavement design. B. E. Gray. il Eng N 128:242-4 F 12 '42

Types of black-top roads. C. M. Wahl. In Ill U Eng Exp Sta Circ 42:23-9 '42

See also

Pavements, Asphalt

Pavements, Bituminous

Roads, Tarred

Cost

Highway relocation, Connecticut; unit prices. Eng N 129:320 Ag 27 '42

Highways, Wyoming; unit prices. Eng N 127:772 N 27 '41

Unit cost of bituminous surface-treatment on Ottawa suburban roads. A. K. Hay. il Roads & Bridges 80:25+ My '42

Maintenance and repair

Maintenance of bituminous macadam surfaces. J. E. Lawrence. il Pub Works 73: 11-13+ S '42

Patching and surface maintenance of bituminous macadam pavements. J. E. Lawrence. il Roads & Sts 85:72, 74, 76, 78 Je '42

ROADS, Bituminous concrete

Maryland access road project. A. F. Shure. il diags Road & Sts 85:24-7 Jl '42

Cost

Highway, Maryland; unit prices. Eng N 128:456 Mr 19 '42

ROADS, Brick

Tests of monolithic brick pavement slabs. W. F. Kellermann. il Pub Roads 23:85-8, 97-8 Jl-S '42

See also

Pavements, Brick

ROADS, Cement. See Roads, Earth—Cement hardening

ROADS, Concrete

American highway practice. L. I. Hewes. v2 492p $6 Wiley '42

Changes in pavement specifications are necessary for the duration. H. F. Clemmer. il Concrete 50:33-5 S '42

Contractor and WPA build access road to Ft. Bragg. il Eng N 127:722-3 N 20 '41

Double tracking on U.S. route 12 to serve war industry; with cost data. il diags Roads & Sts 85:35-40 O '42

Dual highways on Montreal island. A. Bergeron. il Can Eng R & B 79:13-15 D '41

Dual-type limited-access highway from Montreal to Quebec. J. Langevin. il Can Eng R & B 79:17-18+ N '41

Effect of carbon black on the strength of mortar. D. O. Woolf. Pub Roads 22:231-2 D '41

First stage of dual highway; Montreal to New York state border. A. Bergeron. il Can Eng R & B 79:15-16+ N '41

Force account concrete pavement widening project. il Roads & Sts 85:28-30 My '42

Kanawha boulevard at Charleston extended. W. Brewster. il diags Eng N 127:789-91 D 4 '41

Membrane curing method is successful in concrete highway construction. Concrete 50:35 O '42

New developments in field of highway construction. J. G. Schaub. il Concrete 50:33-4 N '42

Parkways in New York metropolitan area. S. M. Shapiro. il map Civil Eng 12:239-42 My '42

Powdered stone in concrete road construction. Roads & Bridges 80:100 F '42

Trends in cement-concrete paving. D. O. Robinson. il Roads & Bridges 80:21-3 F '42

Trends in concrete highway design. A. A. Anderson. il Eng N 128:245-7 F 12 '42

Trends in concrete highway work in 1941. A. Diefendorf. il Roads & Sts 85:42, 44-5+ Ja '42

Two extremes in Ohio's concrete highways. il Concrete 50:4 Je '42

Types of powdered stone in concrete road construction. Am Concrete Inst J 13:369 F '42; Same. Rock Prod 45:69 Ap '42; Same cond. Roads & Bridges 80:100 F '42

Wartime concrete pavement design; abstract. L. E. Andrews. Eng N 129:537-8 O 22 '42

Widening an 18-foot concrete road; abstract. W. H. Burgwin. diags Pub Works 73:42-3 My '42

See also

Pavements, Concrete

Construction equipment

Buggymobile for road and airport paving; mobile concrete-placing unit. il Roads & Bridges 80:44 Ag '42

Test compacting and finishing machinery for road construction. Concrete 50:8 N '42

Tractor-mounted vibrator used by German troops. Eng N 128:561 Ap 9 '42

Whiteman concrete-finishing machines. il Roads & Bridges 80:44 Ap '42

Construction management

Contractor's organization worked smoothly; Louisiana road work; with cost data. E. M. Gillen. il diags map Roads & Sts 85:36-41 F '42

Paving at Fort Knox. J. C. Black. il Roads & Sts 85:31-5 F '42

Cost

Access road, Ypsilanti, Michigan; unit prices. Eng N 127:772 N 27 '41

Grade separation, California; unit prices. Eng N 128:755 Ap 30 '42

Highway, Arkansas; unit prices. Eng N 129:318 Ag 27 '42

Highway improvements, Ohio; unit prices. Eng N 128:360, 362 F 26 '42

Highway, New Jersey; unit prices. Eng N 129:596 O 22 '42

Highway paving, Iowa; unit prices. Eng N 128:1028 Je 18 '42

Highway, Washington; unit prices. Eng N 128:432 Mr 12 '42

Highway, West Virginia; unit prices. Eng N 128:938 Je 4 '42

Highway, Wisconsin; unit prices. Eng N 128:940 Je 4 '42

Highways and bridges, Oklahoma; unit prices. Eng N 129:448 S 24 '42

Highways, New York; unit prices. Eng N 128:456 Mr 19 '42

Highways, Tennessee and Kentucky; unit prices. Eng N 129:186 Jl 30 '42

Highways, Texas; unit prices. Eng N 128:71 Ja 8 '42

Industrial expressways, Detroit, Michigan; unit prices. Eng N 129:248 Ag 13 '42

Failures

California experience with the expansion of concrete through reaction between cement and aggregate. T. E. Stanton and others. bibliog il Am Concrete Inst J 13:209-36 Ja '42; Discussion. 13:sup 236^1-236^{39} N '42

Joints

Double-barreled economy; correction of pumping joints conserves both pavement and tires. J. W. Poulter. il Roads & Sts 85:49-51 S '42

Maintenance and repair

Double-barreled economy; correction of pumping joints conserves both pavement and tires. J. W. Poulter. il Roads & Sts 85:49-51 S '42

Testing

Experimental road in Ohio permits study of wide range of variables. Concrete 50:37 Ag '42

General observations on concrete scaling; organic admixtures showed satisfactory resistance. J. W. Kushing. il Roads & Sts 84:23-30 D '41

ROADS, County

Bridge widths and bridge floor materials; data reported by 683 counties showing standard practices in county road systems. il Pub Works 73:35-8 Ja '42

Future viewpoint requires county planning of highways. G. M. Haley. Roads & Sts 84:70, 72 D '41

How one county keeps within the road budget; Cherokee county, Kansas, engineering department; system of records and reports. C. M. Cooper. Pub Works 73:16-18 Ja '42

Land use planning in relation to highways, with specific reference to Delta county, Colorado. W. J. Keller. maps Pub Roads 23:5-13 Mr '42

Maintaining 750 miles of road, and building 50 miles of new for $60,000; Elk county, Kansas. J. J. Wardrip. il Pub Works 73:14-16+ Ap '42

Maintenance cost reduced by a California county. il Roads & Sts 84:29-30 N '41

Snow removal in Oconto county, Wisconsin. C. L. Foley. il Roads & Sts 85:49-50 Ag '42

Spring maintenance of county roads. H. B. Olsen. il Pub Works 73:11-12+ Mr '42

Utilizing WPA labor during winter months; Ravalli county, Montana. H. H. Benson. il Pub Works 72:11+ N '41

ROADS, Earth
Importance of maintenance to low-cost roads. B. H. Petty. il Roads & Sts 85:23-7 My '42
See also
Roads, Gravel
Roads, Macadam
Streets

Cement hardening

Building airport runways of native soil and portland cement. C. G. O'Fiel. il Roads & Sts 85:29-34 S '42
Cement spreader and road-mix methods speed large surfacing jobs in California. il Eng N 129:366-8 S 10 '42
New type pavement from mine tailings, added to soil and cement mixtures. il Eng N 128: 985-8 Je 18 '42
Soil-cement base for airport runways. W. B. West. il Eng N 128:414-15 Mr 12 '42
Soil-cement runways for heavy bombers. C. H. McLaughlin. il Eng N 128:366-7 Mr 5 '42

ROADS, Elevated
Concrete pumped for elevated roadway deck; Gowanus elevated parkway in Brooklyn, N.Y. il Eng N 128:150-1 Ja 22 '42
Overpass with minimum obstruction; reinforced-concrete supports for an overpass at Sacramento, Calif. il diags Eng N 129: 348-9 S 10 '42

ROADS, Experimental
Experimental road in Ohio permits study of wide range of variables. Concrete 50:37 Ag '42
General observations on concrete scaling; organic admixtures showed satisfactory resistance. J. W. Kushing. il Roads & Sts 84:23-30 D '41

ROADS, Gravel
Blue Ridge parkway nears completion. il Roads & Sts 85:44, 47-8 Ap '42
Building a road by unusual methods under difficult conditions in northern Saskatchewan. W. M. Stewart. il map Roads & Bridges 80:21-4+ Ap '42
Experience with bituminous primer for dust-suppression treatment on gravel or traffic-bound roads. J. Sears. il Roads & Bridges 80:25-7, 58+ Ap '42
Fire control and fire control roads in Nicolet national forest. L. Tausch, jr. il map Roads & Sts 85:41-3, 62 O '42

Maintenance and repair

Keeping gravel-surfaced roads free from corrugations. E. S. Rankin. il Pub Works 73: 34+ My '42
Maintaining gravel roads in a dry county. D. W. Chesley. il Pub Works 73:21 Ja '42
Spring maintenance of county roads. H. B. Olsen. il Pub Works 73:11-12+ Mr '42

Stabilization

Consolidated clay-aggregate roads in Missouri. R. M. Whitton. il Roads & Sts 84: 41-3 N '41
Importance of maintenance to low-cost roads. B. H. Petty. il Roads & Sts 85:23-7 My '42
Road and street stabilization; abstract. R. W. Crum and F. Burggraf. Pub Works 73:36-7 Jl '42

ROADS, International
Improving the supply lines; United nations develop vital routes, Alaskan road becomes reality. map Business Week p42+ N 7 '42
U.S. building Alaska road. Comm & Fin Chr 155:1264 Mr 26 '42

ROADS, Macadam
Patching and surface maintenance of bituminous macadam pavements. J. E. Lawrence. il Roads & Sts 85:72, 74, 76, 78 Je '42

ROADS, Military
Military roads in the United States. Engineer 174:149-50, 166-8 Ag 21-28 '42
Needed: a trans-African road for war. H. P. Gillette. Roads & Sts 85:54 Ag '42; Discussion. 85:72-3 S '42
Six new roads for war purposes; Russia, China, India, Canada-Alaska, Mexico-Central America, Australia. H. P. Gillette. Roads & Sts 85:47 O '42
Tractor-mounted vibrator used by German troops. Eng N 128:561 Ap 9 '42
What maneuvers are teaching us about military highways. J. W. Wheeler. Roads & Sts 85:50+ Ap '42
See also
Roads—Military use

ROADS, Oiled
Experience with bituminous primer for dust-suppression treatment on gravel or traffic-bound roads. J. Sears. il Roads & Bridges 80:25-7, 58+ Ap '42

ROADS, Soil-cement. See Roads, Earth—Cement hardening

ROADS, State
Highways in America; economic and strategic considerations. Index 21 no 4:80-7 [D] '41
State highway construction; mileage completed and expenditures in 1940 and probable mileage and expenditures in 1942. Roads & Sts 85:65-6+ Ja '42
State road work and programs, 1941-1942. il Eng N 128:257-67 F 12 '42
See also
Roads—Federal aid

ROADS, Tarred
Construction with road tar during 1941. G. E. Martin. il Roads & Sts 85:32-5 Ja '42
Performance tests for road tars; a report of the research (specifications) sub-committee of the British road tar association. bibliog diags Soc Chem Ind J 61:133-43 S '42; Excerpts. Roads & Bridges 80:52, 86-90 D '42

ROADSIDE market
See also
Roadside stores

ROADSIDE planting
Economical landscaping of state highways. R. S. Green. il Pub Works 73:11-12+ Jl '42
Naturalization of road banks; an integral part of highway construction. C. R. Hursh. il Roads & Bridges 80:22-6+ Jl; 80 O '42
Planted snow fences. M. W. Torkelson. il Eng N 129:408-9 S 24 '42
Planting to control drifts on highways; with cost data. C. G. Bates and J. H. Stoeckeler. il diags Eng N 129:92-6 Jl 16 '42
Roadside development and overhead lines. G. D. Blair. il Roads & Sts 85:44-6 Ag '42

ROADSIDE stores
Retailing in a cornfield; Printers' Ink special report. il Ptr Ink 198:21-3, 59, 60+ Ja 2 '42

ROADSIDES
Cotton fabric for erosion control; experiments on roadside slopes and ditches in Mississippi. W. B. King. il Pub Roads 23: 94-6 Jl-S '42
Design of roadside drainage channels. C. F. Izzard. Pub Roads 23:1-4, 13-14 Mr '42; Same cond. Pub Works 73:32, 34, 38+ S '42
Highway development; first short course on roadside planning, Feb. 28-March 1, 1941. il Ohio State U Eng Exp Sta Bul 109:1-64 '41 (pa 60c)
Methods of roadside development. Roads & Bridges 80:107+ Mr '42
Stabilizing highway slopes; abstract. H. D. Bowers. Pub Works 73:42-3 S '42
Trees, by the side of the road; overhanging trees camouflage sections of road. H. J. Neale. il Roads & Sts 85:50, 52-3, 56-7 F '42

ROBERTSON, William Rees Brebner, 1881-1941
Sketch. R. K. Nabours. Science 95:113-14 Ja 30 '42

ROBERTSON art tile company
Fiftieth anniversary, 1890-1940. pors Am Cer Soc Bul 20:413-14 N '41

ROBISON, Robert, 1883-1941
Sketch. W. T. J. Morgan. Chem Soc J p67-9 Ja '42

ROBUSTIC acid
Active principles of leguminous fish-poison plants; robustic acid. S. H. Harper. Chem Soc J p181-2 F '42

ROCHE-ORGANON, inc.
Pharmaceutical companies cited in anti-trust action did not engage in pro-Axis practices. Business Week p28-9 Ja 10 '42

ROCHESTER, New York

Water supply

Proposed ground water supplementary supply for Rochester. Pub Works 73:34-5 Jl '42

ROCHESTER academy of medicine
Medical museum. Science 95:14 Ja 2 '42

ROCHESTER museum of arts and sciences
Dedication of the Bausch hall of science and history. Science 95:619 Je 19 '42

ROCK, Elmer, 1910-
Sketch. por(p50) Civil Eng 12:52 Ja '42

ROCK bursts
Coal mine bumps; sudden bursts or failures in pillars, roofs or floors. C. T. Holland. bibliog diags Min Cong J 28:26-30 Je; 34-7 Jl '42
Use of subaudible noises for the prediction of rock bursts. L. Obert and W. Duvall. U S Bur Mines Rep of Invest 3555:1-4 '41; 3654:1-22 '42

ROCK drills
Detachable rock-drill bits at the Hollinger mine; with cost data. A. H. Wohlrab. bibliog il diags Can Min J 63:151-6 Mr '42
How welding keeps worn quarry drills off the scrap pile. il Concrete (mill sec) 50:128 F '42
Ingersoll-Rand powerful rock drill for jumbo service in tunnels and mines. il Comp Air M 47:6695 Mr '42
Invention of the rock drill. P. Grodzinski. Can Min J 63:15-16 Ja '42
Maintaining the rock drill. Eng & Min J 143:66-7 O '42
Reclaiming quarry drills. il Rock Prod 45:30 Ap '42
Rock-drill lubricants. F. R. Anderson. il Eng & Min J 143:49-51 S '42
War maintenance; coal and rock drills. il Coal Age 47:85-6 O '42
War maintenance; drills and pumps, strip mines. il diag Coal Age 47:127 O '42
See also
Drilling and boring (earth and rocks)
Drills, Oil well

ROCK dust
Fine grinding and stone-dusting. il diags Mech Handling 29:35-8 F '42
See also
Coal mines and mining—Rock dusting

ROCK excavation. See Drilling and boring (earth and rocks); Excavation

ROCK ISLAND, Illinois

Railroads

Protection at 38 street crossings. il plan Ry Age 112:655-7 Mr 28 '42

ROCK paintings
Transparent calcium incrustation over rock paintings. C. N. Ray. Science 96:426-7 N 6 '42

ROCK products
Sand blending; simple mathematical methods of determining size distribution. F. C. Bond. Rock Prod 45;60+ O '42
See also
Aggregates
Gravel
Gypsum
Lime
Phosphate rock
Sand
Stone, Crushed

Transportation

Speed up haulage; use of Diesel-electric locomotives, and truck and trailer body combinations; rock products companies. il Rock Prod 45:58-9 Ja '42

ROCK products industry
How to operate under allocation order and P-56. N. C. Rockwood. Rock Prod 45:25-6 Jl '42
Report on business conditions in the sand and gravel and ready-mixed concrete industries. V. P. Ahearn. Rock Prod 45:47-8 Mr '42

Finance

Financial notes. Published in monthly numbers of Rock products

Statistics

Development of the sand and gravel industry. S. F. Colby. pls map U S Bur Mines Information Circ 7203:1-23 '42

ROCK products plants
All-out for defense. il Rock Prod 45:75-8 Ja '42
See also
Gravel plants
Stone, Crushed

Accidents

Determining accident causes; topic for plant safety meetings. A. J. R. Curtis. Rock Prod 45:54-5 S '42

Electric equipment

Some electrical aspects of a new fluorspar plant. J. H. Edwards. il Eng & Min J 143:56-8 Mr '42

Employees

Men for efficient kiln operation. R. Gibbs. Rock Prod 45:36-7 Ap '42

Equipment

Control and collection of industrial dust. E. D. Powers. il diags plan Rock Prod 45:58-60 F; 46-8 Ap; 48-9+ S '42
Controlling dust. il Rock Prod 45:69-71 Ja '42
Crush million tons of stone for T.V.A; Birmingham slag co. il Rock Prod 44:43-5 D '41
How to get machines and materials under war-time priorities. W. A. Nelson; E. W. Bauman. Rock Prod 45:32-4 Mr '42
Large deliveries from stock; equipment for stockpiling and handling rock products. il plan Rock Prod 45:60-3+ Ja '42
Manufacturers' ideas; equipment for cement and rock products plants. il Rock Prod 45:104-11 Ja '42
More screens cut time loss; Ohio marble co. flow sheet il Rock Prod 45:48-50 F '42
Practical operation conveyor belts. M. C. Dow and H. A. Harnden. il Rock Prod 45:52+ F; 56-7 Ap; 42-3 Jl; 47 S '42
Reducing grinding costs; new developments in pulverizers and crushers. il Rock Prod 45:64-6+ Ja '42
Separation processes enter new fields. il diag Rock Prod 45:81-4+ Ja '42
Six Diesels operate stone plant, Lambert bros, inc. il Rock Prod 44:41-2 D '41
Speed up operations with conveyors. il Rock Prod 45:94-5 Ja '42
Stone sand for Cherokee dam; American limestone co. B. Nordberg. il Rock Prod 44:46-8+ D '41

Power

Trends in power plants. il Rock Prod 45:96-7 Ja '42

Safety measures

Efficient enclosures solve dust problem; Lynn sand and stone co. flow sheet il Rock Prod 45:44-5+ Ap '42

ROCK salt. See Salt

ROCKBESTOS products corporation
Firms charged with fraud in sale of cable to navy; denials issued. Comm & Fin Chr 156:747-8 Ag 31 '42

ROCKEFELLER, Nelson Aldrich, 1908-
Portrait. Business Week p15 S 19 '42

ROCKEFELLER foundation
Rockefeller foundation spent $9,313,964 in 1941. Comm & Fin Chr 155:1348-9 Ap 2 '42
Work of the Rockefeller foundation in Brazil. Science 95:19-20 Ja 2 '42
Work of the Rockefeller foundation in 1941. R. B. Fosdick. Science 95:407-9 Ap 17 '42

ROCKET propulsion

Military rockets; anti-aircraft traps, rocket shells, weather study, airplane starters, are possibilities. A. Klemin. diags Sci Am 166:97-8 F '42

Steam and rocket aircraft. Iron Age 149:62 Je 18 '42

ROCKLAND power and light company

Permits utility to sue New York city. Elec W News ed 118:539 Ag 15 '42

ROCKS

Detection deep down; geophysicist identifies inaccessible crustal rocks by applying analytical methods to laboratory data. M. B. Dobrin. il Tech R 44:319-21+ My '42

Geology and oil and coal resources of the region south of Cody Park county, Wyoming. W. G. Pierce and D. A. Andrews. diags map U S Geol S Bul 921-B:99-180, pl 11-24; pa $1 Supt. of doc. '41

Mineral composition, and structure of mine roof rocks. P. H. Price and A. J. W. Headley. bibliog il Min Cong J 28:54-6 Ap '42

Mineralization in the West Tintic mining district, Utah. B. F. Stringham. bibliog diags maps Geol Soc Bul 53:267-90, pl 1-2 F '42

Processing plant for rock-earth dam; Green Mountain dam in Colorado. il diags Eng N 128:188-91 Ja 29 '42

Pseudomigmatite in the piedmont of Maryland. R. W. Chapman. bibliog diags Geol Soc Bul 53:1299-1330, pl 1-6 S '42

Regional systematic jointing in slightly deformed sedimentary rocks. J. M. Parker, 3d. bibliog maps Geol Soc Bul 53:381-408, pl 1-4 Mr '42

Stratigraphy and structure of the southern Ruby mountains, Nevada. R. P. Sharp. fold chart maps Geol Soc Bul 53:647-90, pl 1-5 bibliog(p688-90) My '42

Stratigraphy, structure, and petrology of the Mt Cube area, New Hampshire. J. B. Hadley. bibliog diags maps Geol Soc Bul 53:113-76, pl 1-4 Ja '42

Wind-polished rocks in the Trans-Pecos region, Texas and New Mexico. K. Bryan and C. C. Albritton, jr. bibliog map Geol Soc Bul 53:1403-16, pl 1 O '42

Wind-worn stones in glacial deposits of the Middle West. L. R. Thiesmeyer. bibliog Science 96:242-4 S 11 '42

See also

Amphibolites
Concretions
Crystallography
Dolomite
Drilling and boring (earth and rocks)
Geochemistry
Geology
Geophysics
Granite
Gypsum
Laccolith
Limestone
Metamorphism
Minerals
Pebbles
Phosphate rock
Quarries and quarrying
Sandstone
Sedimentation and deposition
Shale
Stone, Crushed

Analysis

Determination of germanium in silicate rocks. A. G. Hybbinette and E. B. Sandell. Ind & Eng Chem Anal ed 14:715-16 S 15 '42

Determination of lead in silicate rocks. I. T. Rosenqvist. bibliog Am J Sci 240:356-62 My '42

Direct determination of potassium in silicate rock. H. H. Willard, L. M. Liggett and H. Diehl. diag Ind & Eng Chem Anal ed 14:234-5 Mr 15 '42

Source beds of petroleum. P. D. Trask and H. W. Patnode. 566p $4.50 Am. assn. of petroleum geologists, Tulsa, Okla. '42

Spectroscopic distribution of minor elements in igneous rocks from Jamestown, Colorado. J. M. Bray. map Geol Soc Bul 53:765-814 bibliog(p810-14) Ja '42

ROCKS, Igneous

Alkalic rocks of Iron Hill, Gunnison county, Colorado. E. S. Larson. bibliog diags map U S Geol S Professional Pa 197-A:1-64, pl 1-3; pa 40c Supt. of doc. '42

Alkaline and carbonate intrusives near Bancroft, Ontario. F. Chayes. diag map Geol Soc Bul 53:449-511, pl 1-5 bibliog(p510-11) Mr '42

Distribution of helium and radioactivity in rocks; mineral separates from the Cape Ann granite. N. B. Keevil. bibliog Am J Sci 240:13-21 Ja '42

Distribution of helium and radioactivity in rocks; radioactivity and petrology of some California intrusives. E. S. Larsen and N. B. Keevil. Am J Sci 240:204-15 Mr '42

Elasticity of glass at high temperatures, and the vitreous basaltic substratum. F. Birch and D. Bancroft. bibliog Am J Sci 240:457-90 Jl '42

Endomorphism of the Idaho batholith. A. L. Anderson. bibliog map Geol Soc Bul 53:1099-1126, pl 1-3 Ag '42

Genesis of some ore deposits of southeastern Maine. C. Li. maps Geol Soc Bul 53:15-51, pl 1-5 bibliog(p46-7) Ja '42

Geology of southeastern Venezuela. V. M. López, E. Mencher and J. H. Brineman, jr. bibliog diags Geol Soc Bul 53:849-72, pl 1-2 Je '42

Gold mineralization in minor igneous intrusions. W. W. Moorhouse. bibliog diag map Econ Geol 37:318-29 Je '42

Granite and magmation and metamorphism. J. A. Dunn. Econ Geol 37:231-8 My '42

Igneous rocks of the Highwood mountains, Montana. E. S. Larsen and others. bibliog 15pls diags maps Geol Soc Bul 52:1733-1828, 1829-68 N-D '41

Intrusive domes of the Claremont-Newport area, New Hampshire. C. A. Chapman. bibliog diags map Geol Soc Bul 53:889-915, pl 1 Je '42

Magmas and ores. A. M. Bateman. Econ Geol 37:1-15 Ja '42

Mineralization of the Ajo copper district, Arizona. J. Gilluly. bibliog diags maps Econ Geol 37:247-309 Je '42

Origin and structure of the Livingston igneous rocks, Montana. W. H. Parsons. bibliog maps Geol Soc Bul 53:1175-85 Ag '42

Oruro silver-tin district, Bolivia. D. F. Campbell. bibliog diags maps Econ Geol 37:87-115 Mr '42

Phase petrology in the Cortlandt complex, New York. S. J. Shand. bibliog map Geol Soc Bul 53:409-28, pl 1-2 Mr '42

Ring structures of the Pliny region, New Hampshire. R. W. Chapman. bibliog map Geol Soc Bul 53:1533-67, pl 1-2 O '42

Spectroscopic distribution of minor elements in igneous rocks from Jamestown, Colorado. J. M. Bray. map Geol Soc Bul 53:765-814 bibliog(p810-14) Ja '42

Structural features of the Keewatin volcanic rocks of western Quebec. M. E. Wilson. bibliog diags map Geol Soc Bul 53:53-69, pl 1-5 Ja '42

System $CaO-FeO-Al_2O_3-SiO_2$; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

See also

Granite
Nephelite syenite
Ore deposits
Pegmatites

ROCKY Mountain spotted fever

Additional highly virulent strains of Rocky Mountain spotted fever virus isolated in Georgia. G. D. Brigham and J. Watt. Pub Health Rep 57:1342-4 S 4 '42

New epidemiological aspect of spotted fever in the Gulf coast of Texas. L. Anigstein and M. N. Bader. Science 96:357-8 O 16 '42

Rickettsia-like organism from normal dermacentor andersoni Stiles. E. A. Steinhaus. bibliog Pub Health Rep 57:1375-7 S 11 '42

Use of the complement fixation test in Rocky Mountain spotted fever. H. Plotz and K. Wertman. Science 95:441-2 Ap 24 '42

ROCKY mountains

See also

Geology—Rocky Mountain region

ROD mills. See Rolling mills

ROD mills (for crushing). See Tube mills

RODENTS
See also
Mice
Rats

RODENTS as carriers of infection
Isolation of coccidioides from soil and rodents. C. W. Emmons. bibliog Pub Health Rep 57:109-11 Ja 23 '42

RODS
Operational theory of longitudinal impact. L. A. Pipes. diags J Ap Phys 13:503-11 Ag '42
See also
Connecting rods
Steel rods

ROENTGEN rays. See X rays

ROHR aircraft corporation
Stock offered. Comm & Fin Chr 154:1416-17 D 9 '41

ROLLER bearings
Adequate lubrication keeps anti-friction bearings rolling. J. I. Clower. il diags Power 86:38-40 Ja '42
Development of ball bearing and roller bearing greases. H. M. Fraser. diags Nat Pet N 34:R22, R24, R26+ Ja 21 '42
More about cageless roller bearings. E. Wittman. Power 86:730 O '42
New design Bantam quill bearings. diag Paper Tr J 115:19 Jl 16 '42
Pump and bearing lubrication practice. V. M. Palmer and C. L. Pope. Power Pl Eng 46:72-3 Ja '42
Reclamation of ball and roller bearings; practices of various companies. Transit J 86:109-10 Mr '42
Roller-bearing experience on passenger cars; Car department officers' assn. committee report. Ry Mech Eng 116:465-7 N '42
Roller bearings and national defense. T. V. Buckwalter. il diags S A E J 50:20-36 Ja '42
Roller bearings for 1800 rpm. H. E. Osgood. diags Power 86:567 Ag '42

Advertising

Timken bearing starts third chapter in story to railroads. F. H. Lindus. il Ind Marketing 27:16-17+ F '42

Manufacture

Converting single-spindle automatics to speed up bearing production; Timken roller bearing co. il Mach 48:136-8 F '42; Automotive & Aviation Ind 86:41 F 1 '42; Steel 110:70 F 2 '42
Emergency roller bearings. il Power 86:422-3 Je '42; Discussion. G. Holman. 86:566-7 Ag '42
Machining cones and cups for railway roller bearings. il Mach 49:190 O '42
Single spindle automatics adapted for larger work; Timken roller bearing co. il Iron Age 149:63 F 26 '42
Spot welding simplifies bearing assembly. diag Iron Age 150:45 O 22 '42
Timken steams ahead. il Power 86:386-8 Je '42
Timken tapered roller bearings speed up railway transportation. W. C. Sanders. il Mach 48:174-9 Ap '42
Use roller bearings, they're easy to make. G. Holman. diags Power 86:405 Je '42

Testing

Large surface plate with unusual rib design; used for checking outer races of roller bearings. il Mach 48:157 D '41

ROLLER chain drive. See Chain gear

ROLLER skates
Plastics competition award to Union hardware co.; roller skate wheels. il Mod Plastics 19:146-7 N '41

ROLLERS
Portable rollers turn cylinders for welding. il Factory Management 100:124 Jl '42

ROLLERS, Printers'
Blast cleaning of printing roller cores. Rubber Age 50:274 Ja '42
Platens revivified; grinding process developed by Studebaker. il Business Week p66 O 24 '42

ROLLING (metal work)
Active pass contours in wide strip rolling. W. J. Blenko. bibliog Blast F & Steel Pl 30:649-55+ Je '42; Excerpts. Metals & Alloys 16:304 Ag '42
Economical rolling. A. E. Lendl. il diag Blast F & Steel Pl 30:1126-30 O '42
Flattening sheets and strip by roller leveling. F. W. Robertson. il diags Steel 110:84, 88+ Mr 16 '42
Folding cracks on rolling steel; abstract. A. Pomp and W. Lueg. Iron Age 149:65 Mr 12 '42
Influence of crystal structure on the cold rolling and annealing of copper strip. M. Cook and T. L. Richards. Metal Prog 41:53+ Ja '42
Longitudinal ridged structure in the tin coating of tin-plate. B. Chalmers and W. E. Hoare. diags Iron & Steel Inst J 144:127-32, pl 17 no 2 '41; Same cond. Engineering 153:79-80 Ja 23 '42
Röchling wide strip mill. Iron Age 150:63+ Ag 6 '42
Roll-forming metal sections in a British airplane plant. diags Mach 49:175-8 S '42
Roll pressures in rolling steel strip. J. D. Keller. diags Steel 111:160, 162, 164+ S 14 '42
Rolling of a magnesium alloy. W. R. D. Jones and L. Powell. Engineering 152:345-6, 405-6 O 31, N 21 '41; Abstract. Metal Prog 41:72+ Ja '42
Shell steel manufacture. C. M. Lichy. il Metal Prog 41:42-3 Ja '42
Sintered, forged and rolled iron powders. C. G. Goetzel. il Iron Age 150:82-4, 87-92 O 1 '42
Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9:419-38 S '42
Witter shell-forging process. J. H. Loux. il diags Mech Eng 64:123-9 F '42
See also
Rolling mills

Tables, calculations, etc.

Roll more tons; practical roll calibration calculations. A. E. Lendl. diags Blast F & Steel Pl 29:1202-6+ D '41

ROLLING mills
Armco introduces Sendzimir mill. il diags Iron Age 150:55-7 Jl 23 '42
Big Steel's land; sold. Business Week p18+ S 26 '42
Dramatic details revealed in strip mill conversion story. il Iron Age 150:98, 100-1 Ag 6 '42
English steel company installs new type mill for rolling narrow strip. il Blast F & Steel Pl 30:696 Je '42
Irvin works tops plate record by 41,000 net tons. il Iron Age 149:87-8 Je 18 '42; Same. Steel 110:36-7 Je 15 '42
Modern strip mill; a recording of the continuous wide strip mill installations and practices in the United States. T. J. Ess, ed. 358p, 127p $15; to libs $10; outside U.S. $20 Assn. of iron and steel engineers, 1010 Empire bldg, Pittsburgh '41
New German wide strip mill; abstract. Metals & Alloys 16:478 S '42
Novel cold reducing mill; involving use of both rolling and drawing action. W. A. Phair. il diags Iron Age 149:76-7 My 7 '42
Röchling wide strip mill. Iron Age 150:63+ Ag 6 '42
Steelworks expansion in 1941. J. D. Knox. Steel 110:262, 264-6+ Ja 5 '42
Urges use of strip mills for plates. J. Malborn. Steel 110:44 Ja 26 '42
See also
Steel works

Bearings

Nonmetallic bearings for steel mill service. F. W. Vogt. il Steel 111:78, 80 Jl 20 '42
Protection for roll neck bearings. il Blast F & Steel Pl 29:[1150-1] N '41

ROLLING mills—Bearings—*Continued*

Roller bearings and national defense. T. V. Buckwalter. il diags S A E J 50:27-9 Ja '42

Rolling mill bearings; composite of abstracts. Metals & Alloys 15:286+ F '42

Costs

Economical rolling. A. E. Lendl. il diag Blast F & Steel Pl 30:1126-30 O '42

Electric equipment

Cold rolling strip steel at 3900 feet per minute; Carnegie-Illinois steel corp. J. D. Campbell and J. R. Taylor. il Steel 110:78, 82+ F 16; 78, 80, 82 F 23 '42

Developments in rolling mill electrical equipment. A. F. Kenyon. il Blast F & Steel Pl 30:64-6+ Ja '42

Electrical developments in the steel industry during 1941. F. Mohler. il Blast F & Steel Pl 30:55-8 Ja '42

How to maintain constant linear speed and tension in material being unwound from one reel onto another; reel drive of strip grinding and polishing machine. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110:78, 80 Mr 30 '42

How to measure the width of moving webs or strips; photoelectric devices; production of textiles, paper, and strip metal. E. H. Alexander. il diags Gen Elec R 44:615-17 N '41

Maintenance of electrical equipment in steel plants. M. J. Wohlgemuth. il Steel 111:153, 156+ S 14 '42

Switchgear for modernizing hot strip mills. W. N. Gittings. il Steel 110:67-8+ F 2 '42

Employees

See also
Steel workers

Equipment

Algoma steel corporation, ltd.; its products have promoted the industrial growth of Canada. C. Longenecker. il diag plan Blast F & Steel Pl 30:125-32 Ja '42

Carnegie-Illinois utilizes old equipment to convert mill to roll heavy plates. il Blast F & Steel Pl 30:920 Ag '42; Same. Marine Eng 47:249 O '42

Converts world's widest strip mill to plate production. il Steel 111:72-3, 110 S 7 '42

Developments in strip steel finishing lines. R. J. Wean. il Steel 110:85, 88 Ap 6 '42

Flattening sheets and strip by roller leveling. F. W. Robertson. il diags Steel 110:84, 88+ Mr 16 '42

Improvements in hot-coil conveyors. J. E. McBride. il diags Steel 110:70, 72+ Mr 30 '42

Semicontinuous pickler for cleaning 24-inch strip. il Steel 109:66-7 D 29 '41

Welding aids mill maintenance. S. D. Baumer. il Steel 111:56-8, 60, 62 Jl 27 '42

Welding saves loss of two months on slab mill. il Blast F & Steel Pl 30:459-60 Ap '42

See also
Furnaces, Heating

Heating and ventilation

Motor room ventilation in steel mills. T. J. Ess. diags plans Heat & Ven 39:25-30 Ag '42

Lubrication

Centralized steel mill lubrication. G. H. Kauffeld. il diags Blast F & Steel Pl 30:59-63 Ja '42

Palm oil substitutes; roll oils and coolants for the cold mill; abstract. M. Reswick. Iron Age 150:53-4 O 8 '42

Management

Economical rolling. A. E. Lendl. il diag Blast F & Steel Pl 30:1126-30 O '42

Power

See also
Electric driving—
Rolling mills

ROLLS (paper machinery)

Auxiliary drive for starting heavy rolls. il diag Product Eng 12:638 D '41

Explosion of a paper machine roll causes extensive damage. Locomotive 44:48-9 Ap '42

Lethal effect of drier rolls upon bacteria. J. W. Appling and B. F. Shema. bibliog il Paper Tr J 114:40-4 Mr 26 '42

New Goodrich press roll. il Paper Tr J 115:19 S 24 '42

Plain and suction extractor rolls and their effect on wire life. O. C. Cordes. il Paper Tr J 114:80-4 Je 25 '42

Reducing weight of calender rolls. diags Pulp & Pa of Can (Convention no) 43:116-17 [F] '42

Supercalender rolls; their conditioning and maintenance. W. R. Stapley. il Paper Ind 23:789-90+ N '41

Water and oil circulate through bearings; calendering rolls in Rice Barton paper making machinery. il diags Product Eng 13:375 Jl '42

ROLLS (rolling mills)

Internal stresses in cast iron rolls in relation to service conditions. N. Krupnik. Blast F & Steel Pl 30:164-5+, 268-70, 376-7 Ja-Mr '42

Roll more tons; practical roll calibration calculations. A. E. Lendl. diags Blast F & Steel Pl 29:1202-6+ D '41

Manufacture

Casting alloy rolls. P. R. Ramp. il diags Iron Age 149:60-1 F 12 '42

Incentive for production; Ohio steel foundry co. roll turning and machine operations. J. M. Dugan and G. D. Griffiths. il Iron Age 150:56-60 Ag 20 '42

New roll making technique. P. Dwyer. diag Foundry 70:138-42 O '42

ROOF gutters. See Gutters (roof)

ROOFING

Fire resistant roofing proved in grueling tests. il Sci Am 167:58-9 Ag '42

Gypsum lays siege to replacement roofing market with 9-lb. sales plan. il Sales Management 50:22-4 My 15 '42

Packing, insulation and roofing. Paper Ind 24:526-8 Ag '42

Roof construction and repair, dealing with slate, tile, asbestos-cement, felt, and concrete roofs. E. Molloy, ed. 120p $2.50 Chemical pub. co. '42

See also
Roofs

Advertising

Architects give their views on built-up roofing ads. il Arch Rec 90:100-1 N '41

Specifications

Specification standards for government work. H. R. Sleeper. Arch Rec 91:61-3 F '42

ROOFING, Asphalt

Report of A.S.T.M. committee D-8 on bituminous waterproofing and roofing materials. Am Soc T M Proc 41:379-86 '41

Advertising

Prize-winning mail campaign: it switched a market to alternate products; Southern States Iron Roofing converts to asphalt il Ptr Ink 201:76, 78+ N 6 '42

ROOFING, Copper

New copper roof for City hall, New York. il diags plan Sheet Metal Worker 33:25-8+ F '42

ROOFING felt. See Felt, Roofing

ROOFS

A-frames aid erection of 300-ft. trusses. il Eng N 129:150-2 Jl 30 '42

Bad humidity conditions almost brought down the roof; improved heating and ventilation with humidity control halts deterioration at Oberlin college. L. S. Ries. il Heating-Piping 14:39-40 Ja '42

Barracks for shipment; folding roof. il diags plans Arch Forum 76:91-5 F '42

Building standards and war in the future. G. E. Stecher. Weekly Underw 147:27 Jl 4 '42

ROOFS—*Continued*

Cable-supported roof for grain storage. il Eng N 127:882-3 D 18 '41

FPHA jig tables for field assembly. il diags Arch Forum 76:202 Ap '42

Heat gain through walls and roofs as affected by solar radiation. F. C. Houghten and others. bibliog Heating-Piping 14:306-12; Discussion. 312-13 My '42

Housing from the tenant's viewpoint; useful roofs and balconies; study by E. Coit. il Arch Rec 91:82 Ap '42

Lightweight interlocking clay shingle tile cuts usual roof load in half. diags Brick & Clay Rec 99:21 N '41

New copper roof for City hall, New York. il diags Sheet Metal Worker 33:25-8+ F '42

Plywood girders roof a warehouse; RCA manufacturing co. il diag Eng N 128:625-6 Ap 23 '42

Practical course in roof framing; the underlying principles and their application to practical work. R. M. Van Gaasbeek. 4th ed rev & enl 270p $2 Drake '41

Sheet metal workers' catechism (cont). W. Neubecker. diags Sheet Metal Worker 33: 38+ F; 29+ Mr; 29+ My; 27+ Jl '42

Two noteworthy roofing contracts; interlocking ceramic tile and lead-coated copper ventilators for one contract; mile-long flashing, plus copper tile on the other. il Sheet Metal Worker 33:25-6+ Jl '42

Wartime approach to prefabrication. diags plans Arch Forum 77:78-80 Jl '42

See also
Architecture
Building
Girders
Mine roofs
Roofing
Strains and stresses

Repair

Home repair and maintenance. il Consumers' Research Bul 9:10-12 Ja '42

Repairing roofs without priority materials; two sprayed on coatings of transparent mastic and slate granules. il Sheet Metal Worker 33:27-8+ O '42

ROOFS, Concrete

Monolithic concrete barrel-roof design for U.S. navy supply depot. il diag Concrete 50:5-6 My '42

Navy builds concrete hangars at San Diego; thin-shell barrel-type arch structures. il Eng N 127:786-8 D 4 '41

Wide-span hangars for the U.S. navy; reinforced concrete structures of unique design. A. Tedesko. il diags Civil Eng 11: 697-700 D '41

ROOFS, Steel

Domed building fitted to research needs; structure to house cyclotron at University of California. il diags Eng N 128:536-8 Ap 9 '42

Manufacturing the famous Porcelok roofing and sliding. il Cer Ind 39:37-9 Jl '42

Sheet metal workers' catechism (cont). W. Neubecker. diags Sheet Metal Worker 33: 38+ F; 29+ Mr; 29+ My; 27+ Jl; 34+ N '42

ROOMS

Master room for 194x; one-room apartment. il plans Arch Forum 77:92-5 S '42

Standards for room sizes; study by E. Coit. plans Arch Rec 91:74-5 Ap '42

See also
Bathrooms
Bedrooms
Kitchens
Living rooms
Recreation rooms

ROOSEVELT, Franklin Delano, 1882-

Annual message to Congress describes our huge war tasks; text. Comm & Fin Chr 155:129+, 136-7 Ja 8 '42

Businessmen running production, but war-economy planners come from all groups. E. Blair. Barron's 22:4 Ap 6 '42

Christmas messages to U.S. of President and Prime Minister Churchill of Britain. Comm & Fin Chr 155:26 Ja 1 '42

FDR ends Nation-wide tour of inspection. Comm & Fin Chr 156:1359 O 15 '42

FDR vows defeat of tyrants; praises navy at dedication of Naval medical center. Comm & Fin Chr 156:811 S 3 '42

Gets Churchman award. Comm & Fin Chr 155:2294 Je 18 '42

Hails spirit of freedom on July 4th. Comm & Fin Chr 156:107 Jl 9 '42

Honor United nations at Flag day ceremony; President's address. Comm & Fin Chr 155: 2399 Je 25 '42

Mr Roosevelt 60 years old. Comm & Fin Chr 155:420 Ja 29 '42

Presidency; its tradition is leadership in freedom; will Franklin Roosevelt preserve that tradition? pors Fortune 25:37-41+ Ja '42

President Roosevelt sees long, hard war but voices confidence in final victory; text of address to the American people. Comm & Fin Chr 154:1457+ D 11 '41

Report to Mr Roosevelt in which he is asked to conduct his own purge while the initiative is still his. Fortune 26:110-12+ S '42

ROOSEVELT family

Amazing Roosevelt family, 1613-1942. K. Schriftgiesser. 367p bibliog(p355-8) $3.75 Wilfred Funk, New York '42

ROOTS

Association of tobacco leafspot bacteria with roots of crop plants. W. D. Valleau, E. M. Johnson and S. Diachun. Science 96:164 Ag 14 '42

Synthesis of ascorbic acid in excised tomato roots. M. E. Reid and W. J. Robbins. bibliog Science 95:632-3 Je 19 '42

Vitamin B_6 and growth of excised tomato roots in agar culture. D. Day. bibliog Science 94:468-9 N 14 '41

ROPE

American fibers, another material binding the Americas together. S. L. Bull. il For Comm W 6:6-7, 31-2 F 7 '42

For the rope headache; care and safety measures. il map Safety Eng 84:33-4, 36-7 O '42

Safety and efficiency in handling materials. Pulp & Pa of Can 43:441-3 My '42

Sisal rope; hazards and precautions. Nat Safety N 46:52, 54 Jl '42

Take care of your rope. il Am Bld 64:76-7 O '42

U.S. rope trick; United Fruit will expand plantings in Panama. Business Week p81-2 Ap 18 '42

Your manila rope, nurse it carefully. W. E. Rossnagel. il diag Power 86:393-5 Je '42

See also
Wire rope

Advertising

Book of rope tricks makes friends for Plymouth Cordage. J. S. Bradford. il Ind Marketing 27:34+ Ap '42

Testing

Effect of rate of loading on tensile strength of cord and yarn. M. Castricum and A. N. Benson. bibliog Am Soc T M Proc 41: 1214-16 '41

Sisal ropes tested; strength and wear. Elec W 118:1288, 1290 O 17 '42

ROPE fibers

See also
Sisal hemp

ROPER, Daniel Calhoun, 1867-

Fifty years of public life. D. C. Roper and F. H. Lovette. 422p $3.50 Duke univ. press, Durham, N.C. '41

ROPEWAYS. See Cableways

ROSANILINE

Microestimation of bromide as pentabromorosaniline. W. J. Turner. bibliog Ind & Eng Chem Anal ed 14:599-600 Jl 15 '42

ROSARIES

Plastics competition award to H. J. Lynch; Dura-linx rosary. il Mod Plastics 19:120-1 N '41

ROSENBERG, Mrs Anna Marie, 1902-

On manpower commission. Comm & Fin Chr 156:1188 O 1 '42

ROSES

Vitamin C for the Axis. Business Week p82 Ag 15 '42

ROSIN
Action of rosin soaps on human skin. L. D. Edwards. Soap & San Chem 17:65+ D '41
Ester gums from rosin and modified rosins. W. D. Pohle and W. C. Smith. bibliog Ind & Eng Chem 34:849-52 Jl '42
Hercules rosin esters. F. J. Van Antwerpen. il News Ed 19:1255-6, 1258 N 25 '41
Liquid rosin imports; scheme for allocation of supplies. Chem Age (Lond) 45:212 O 18 '41
Removal of metallic contaminants from pine oleoresin; washing with mineral acid. R. V. Lawrence. bibliog Ind & Eng Chem 34:984-7 Ag '42
Rosin in toilet soaps. Soap & San Chem 18: 57-8 Mr '42
Rosin; increased production and use of derivatives. Sci Am 166:15 Ja '42
Rosin; its possible use as a partial replacement for coconut oil. W. D. Pohle. bibliog Soap & San Chem 18:29+ F '42
Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41
Stimulant for the pine belt. Fortune 26:26+ Jl '42
Upgrading oleoresin by a new process; developed by the Naval stores station of the U. S. Department of agriculture. J. O. Reed. bibliog il Chem & Met Eng 48:68-70 D '41
What you can use; materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:63 F 23 '42

Analysis

Isolation and identification of the resinous binder in water paints. R. W. Stafford. bibliog diags Ind & Eng Chem Anal ed 14:694-9 S 15 '42
Testing paper for rosin content. J. F. Reardon, E. R. Stasielowski and J. E. Minor. Paper Ind 23:1001-3 Ja '42

Statistics

Consumption of turpentine and rosin increased in last naval stores year. Chem & Met Eng 49:122+ Je '42
Turpentine and rosin, 1941. Chem & Met Eng 49:102-3 F '42

ROSIN acids
Extraction of fatty acids from rosin acid; fatty acid mixtures by means of liquid propane. A. W. Hixson and A. N. Hixson. bibliog il diags Am Inst Chem Eng Trans 37:927-54; Discussion. 954-7 D '41

ROSS filters
Ross filter foils by evaporation. J. C. Clark and R. H. Esling. il R Sci Instr 13:383-6 S '42

ROTATING disks. See Disks, Rotating

ROTATION, Optical. See Optical rotation

ROTATION of molecules. See Molecules—Rotation

ROTATORY dispersion. See Dispersion of rays

ROTENONE
Carriers of rotenone dusts. H. F. Wilson and R. L. Janes. Soap & San Chem 18:103+ Ap '42
Constituents of derris and other rotenone-bearing plants. H. L. Haller, L. D. Goodhue and H. A. Jones. Chem R 30:33-48 bibliog (77 references, p47-8) F '42
Effect of soft glass on melting point of rotenone. H. A. Jones. Ind & Eng Chem Anal ed 13:819 N 15 '41
Increased toxicity with rotenone dusts; addition of SAE10 lubricating oil. E. J. Campau, H. F. Wilson and R. L. Janes. Soap & San Chem 18:100-1, 103 Ag '42
Lower concentrations of rotenone. H. F. Wilson and R. L. Janes. Soap & San Chem 18:93-5+ Mr '42
Prohibit rotenone use in household products. Soap & San Chem 18:115 My '42
Pyrethrum and rotenone; abstract. A. Weed. Chem Ind 51:87 Jl '42
Rotenone dispersion; a comparison study of two powdered aluminum silicates used as dispersing agents. H. F. Wilson and G. L. Bender. Soap & San Chem 18:101+ O '42
Rotenone imports to be handled by CCC. Oil Paint & Drug Rep 142:5+ N 9 '42
Rotenone uses restricted. Oil Paint & Drug Rep 141:3+ Ap 20 '42
Search for new insecticides. H. L. Haller. il J Chem Educ 19:317-19 Jl '42
Tephrosia extract against house flies. H. A. Jones and W. N. Sullivan. bibliog Soap & San Chem 18:94-5 S '42

Analysis

Determination of rotenone in derris root. H. E. Coomber, J. T. Martin and S. H. Harper. diags Soc Chem Ind J 61:110-12 Jl '42
Rotenone determination; abstract. P. A. Rowaan and W. M. Sesseler. Soap & San Chem 18:99 N '42

Prices

OPA freezes prices on rotenone roots. Oil Paint & Drug Rep 141:3+ Mr 23 '42

ROTHERY, John Jay Elmendorf, 1849-
Chat with John Jay Elmendorf Rothery, veteran Boston underwriter. R. Rhodes. por Weekly Underw 147:170-1 Jl 25 '42

ROTORS
Colonial broach company; making rotors used in hydraulic pumps. J Aeronautical Sci Aeronautical R Sec 9:57+ Mr '42
Design of rotor blades. R. H. Prewitt. diags J Aeronautical Sci 9:255-60 My '42
Dynamic balancing. F. L. Schwartz. diags Product Eng 13:32-4 Ja '42
Pump rotors precision made; Vickers, inc. il Iron Age 149:61 F 19 '42
Rotor bending moments in plane of flapping. A. Klemin, W. C. Walling and W. Wiesner. J Aeronautical Sci 9:411-18 S '42
Simple ultracentrifuge with plastic rotor. K. G. Stern. diags Science 95:561-2 My 29 '42
Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46:64-85 Mr '42

See also
Autogiros

ROTORS (electric machinery)
Aluminum motor casting. il Iron Age 149:49 Ap 9 '42
Damper circuits and rotor leakage in the transient performance of saturated synchronous machines. R. Rüdenberg. diags Franklin Inst J 234:39-61 Jl '42
Speeds rewinding of regulator rotors. O. J. Harrington. il Elec W 118:1143-4 O 3 '42
Twister protects repaired rotor coils. il diag Elec W 118:1306 O 17 '42
Ventilation of rotor casting department given special attention by motor maker. il Heating-Piping 14:430 Jl '42

Testing

Spins parts in vacuum in new testing technique; stress-coat analysis system for testing rotors. il Steel 110:99+ Ap 13 '42

ROTPROOFING. See Textile fabrics—Protection

ROUGHNESS meter. See Profilometer

ROUMANIA. See Rumania

ROUNDHOUSES

See also
Locomotive shops
Railroads—Shops

ROUREA glabra
Purple dye and other products from rourea glabra. C. D. Mell. Textile Col 63:660-1 D '41

ROUTING systems
Aircraft gear production. J. Geschelin. il diags Automotive & Aviation Ind 86:20-7+ F 15 '42
Allison route sheets in graphic form. i Automotive Ind 85:28 D 15 '41

ROUTING systems—*Continued*

Better handling broke a bottleneck; parts ride portable elevators right into the box that carries them to the next operation; King-Seeley corporation, Ann Arbor. W. J. Pearse. il Factory Management 100:84-5 Je '42

Breaking bottlenecks in production; Star electric motor co., Bloomfield, N.J. F. Eberhard. il Factory Management 100:89-90+ Ag '42

Continental completely renovizes plant for military engine production. J. Geschelin. il Automotive Ind 85:20-31+ D 1 '41

McCulloch superchargers in the making. J. Geschelin. il Automotive Ind 86:18-24+ Ja 1 '42

Pullman's one writing parts order plan. il Am Business 12:14-15 Ag '42

Revolutionary changes; Spicer mfg. co. J. Geschelin. il Automotive Ind 85:38-41 N 15 '41

Simplified production order system speeds work; Cleveland graphite bronze co. M. E. Richards. il Am Business 12:32-4+ Ja '42

See also

Assembling methods

Production control

ROW houses. See Houses, Row

ROYAL aeronautical society

Annual report, 77th, of the council, 1941-1942. Roy Aeronautical Soc J 46:125-40 My '42

ROYAL air force. See Great Britain—Air force

ROYAL-LIVERPOOL insurance companies

Royal-Liverpool shows substantial gains. Weekly Underw 146:531 Mr 7 '42

ROYAL military academy, Woolwich

Royal military academy; historical data. Engineering 152:374 N 7 '41

ROYAL society of Canada

List of officers and members and minutes of proceedings, 1942. (Transactions, 3d ser, v36) 167p Royal society of Canada, Ottawa '42

ROYAL society of London

Award of medals. Science 94:482 N 21 '41

Elections to fellowship of the Royal society. Science 95:402 Ap 17 '42

Science and government. H. Dale. Engineer 172:391-2 D 5 '41; Same. Science 95:34-6 Ja 9 '42

RUBATEX. See Rubber, Expanded

RUBBER

Advances in rubber and plastics during 1941. bibliog il Mech Eng 64:295-9 Ap '42

After hours; rubber in Ecuador. R. S. Bond. Ptr Ink 199:76 My 22 '42

Allied rubber supplies. Economist 142:549-50 Ap 18 '42

As the record on rubber unfolds; chronological review. il Automotive & Aviation Ind 87:168-71+ O 1 '42

Baruch committee recommendations. India Rubber W 107:57-9 O '42

Baruch committee urges nation-wide gas ration to conserve rubber; other restrictions. Comm & Fin Chr 156:985, 990-1 S 17 '42

Baruch-Compton-Conant report challenges us all; with excerpts from report. J. A. Conry. il Chem & Met Eng 49:83-7 O '42

Baruch report; text. Nat Pet N 34:21-2+ S 16 '42; Digest. Rubber Age 51:506-8, 511-12 S '42

Baruch's rubber prescription; committee report. Business Week p15-16 S 19 '42

Beta-anomaly of Ruhemann and Simon in rubber. L. A. Wood. bibliog J Chem Phys 10:403-4 Je '42

Castor oil base hydraulic fluids; attack on rubber. A. H. Shough. Ind & Eng Chem 34:628-32 My '42

Crude rubber and latex no longer available for many civilian goods. India Rubber W 105:495 F '42

Dielectric constant, power factor, and conductivity of the system rubber-calcium carbonate. A. H. Scott and A. T. McPherson. bibliog diags J Research Nat Bur Stand 28: 279-96 Mr '42

Effect of temperature and solvent type on the intrinsic viscosity of high polymer solutions. T. Alfrey, A. Bartovics and H. Mark. bibliog Am Chem Soc J 64:1557-60 Jl '42

Elastic theory for rubber. E. Latshaw. diags Franklin Inst J 234:63-73 Jl '42

Elastomers in the nation's war program. W. C. Geer. bibliog il Chem Ind 50:22-31 Ja '42

Fitting together the rubber puzzle. Barron's 22:6 Je 29 '42

Frictional properties of rubber. F. L. Roth, R. L. Driscoll and W. L. Holt. bibliog pl diags J Research Nat Bur Stand 28:439-62 Ap '42

Future of rubber. Nat City Bank p105 S '42

Getting the bad news on rubber. Business Week p15-16 Mr 14 '42

Glycerine helps preserve rubber. India Rubber W 106:465 Ag '42

Guayule rubbers in wire and cable insulation. R. E. Morris and others. Rubber Age 51:479-81 S '42

Intermolecular forces and mechanical behavior of high polymers. H. Mark. bibliog (73 references) Ind & Eng Chem 34:1343-8 N '42

Is Japan rubber-poor? what are Japs going to do with rubber production they now command? W. N. Small. il For Comm W 8:9+ Jl 25 '42

Lowdown on rubber. Business Week p83 Jl 18 '42

Motor and other oils from rubber; Malayan rubber research institute. India Rubber W 107:202 N '42

Natural and synthetic rubbers. H. L. Fisher. il Am Soc T M Proc 41:521-51 bibliog(p549-51) '41

Natural and synthetic rubbers. H. L. Fisher. bibliog il J Chem Educ 19:522-30 N '42

OPA estimates rubber supply demand prospects. Barron's 22:12 Je 15 '42

Officials warn of acute rubber shortage. Comm & Fin Chr 155:2039 My 28 '42

Phase transition and elastic behavior of high polymers. H. Mark. bibliog diags Ind & Eng Chem 34:449-54 Ap '42

Prospects for rubber in 1942 and 1943. L. Stern. il Mag of Wall St 70:378-9, 410-11 Jl 25 '42

Rapid determination of the specific gravity of plastic materials. H. F. Palmer and W. E. Jones. il diag Ind & Eng Chem Anal ed 13:864-7 D 15 '41

Rationed rubber and what to do about it. W. Haynes and E. A. Hauser. 181p $1.75 Knopf '42

Raw rubber position. E. Hardy. Electrician 128:162 F 27 '42

Report on Baruch. Fortune 26:98-9+ N '42

Report on rubber. F. L. Yerzley. bibliog India Rubber W 105:380-2 Ja '42

Rubber dispersions. R. E. Nelson. Rubber Age 50:114-16 N '41

Rubber; efforts to provide substitute sources of supply. Index 22 no 2:25-33 [Je] '42

Rubber in shear; ellipse of component strains. E. Latshaw. diags India Rubber W 105: 363-5 Ja '42

Rubber in vibration. S. D. Gehman. bibliog il diags J Ap Phys 13:402-13 Je '42

Rubber needs in war seen dependent on synthetic product. Oil Paint & Drug Rep 141:3+ Je 1 '42

Rubber problem; history, present status and solution; synthetic rubbers. C. E. Beland. Can Chem & Process Ind 26:457-9 Ag '42

Rubber resistivity and conductivity. Elec R (Lond) 129:401 O 17 '41

Rubber shortage is due to slothfulness of technologists. T. Midgley, jr. Nat Pet N 34:R192 Je 10 '42

Rubber situation grave. L. Henderson. Comm & Fin Chr 155:1256 Mr 26 '42

Rubber technical consultants appointed. Oil Paint & Drug Rep 142:5+ O 19 '42; Comm & Fin Chr 156:1433 O 22 '42

Rubber technology between the wars. C. R. Park. il News Ed 19:1393-7 D 10 '41

Rubber, today and tomorrow. G. W. Gray. il Tech R 44:441-3+ Jl '42

RUBBER—*Continued*

Seriousness of rubber shortage portrayed in joint war-agency statement. Elec Eng 61: 383-4 Jl '42

Shore risk on rubber stocks assumed by Factory insurance association. Nat Underw 46: 4 Ap 2 '42

Sign rubber agreements with Mexico, Guatemala. Comm & Fin Chr 156:992 S 17 '42

Source of our rubber. il map Manuf Rec 111:22-3+ Je '42

Statistical thermodynamics of rubber. F. T. Wall. J Chem Phys 10:132-4, 485-8 F, Jl '42

Stickiness, tackiness, and spinnability; possible molecular interpretation. D. Josefowitz and H. Mark. bibliog diags India Rubber W 106:33-7 Ap '42

Technical microscopy in the rubber industry. R. P. Allen. bibliog il Ind & Eng Chem Anal ed 14:740-50 S 15 '42

That rubber report, at last. Chem Ind 51: 397 S '42

Urges action to cope with rubber problem. J. L. Collyer. Comm & Fin Chr 155:2122 Je 4 '42

Wanted: rubber; U.S. turns to synthetics, guayule, Latin America. il Business Week p17-18 Ja 10 '42

WPB order on rubber insulation; emergency specifications for rubber covered wire and cable and its substitutes. Elec West 89:66 O '42

Warn of seriousness of rubber shortage. D. M. Nelson. Comm & Fin Chr 155:855 F 26 '42

Wayne university of Detroit gives formal acceptance to rubber and plastics project proposed by Detroit rubber group. Rubber Age 51:58-9 Ap '42

What you can use; material suitable for various purposes in processing industries. Oil Paint & Drug Rep 141:63 F 23; 43 Mr 16; 42 Mr 23; 52 Mr 30; 53 Ap 13; 62 Ap 20; 44 Ap 27; 77 My 11; 67 My 18; 62 Je 8; 71 Je 15; 34 Je 22; 66 Je 29; 142:58 Jl 13; 44 Jl 20; 61 Jl 27; 68 Ag 10; 62 Ag 17; 66 Ag 24; 62 Ag 31; 66 S 14; 61 S 21; 62 S 28; 44 O 12; 71 O 19; 56 O 26; 70 N 9; 74 N 16; 48 N 23; 55 N 30; 74 D 14 '42 (to be cont)

Where our rubber is going. il Manuf Rec 111:20-1+ Jl '42

See also

Guayule
Printing plates, Rubber
Rubber factories
Rubber goods
Rubber industry and trade
Rubber latex
Rubber plants and planting
Rubberized fabrics
Tires, Automobile
Tires, Rubber
Vulcanization

Accelerators

See Vulcanization—Accelerators

Aging

Effect of temperature and pressure on oxygen pressure aging. A. M. Neal, H. G. Bimmerman and J. R. Vincent. bibliog Ind & Eng Chem 34:1352-7 N '42

Light and accelerated light aging of rubber, synthetic rubber, and rubber substitutes. T. A. Werkenthin and others. il Rubber Age 50:103-8 N; 199-202 D '41

Natural aging of reclaimed rubber. H. F. Palmer and R. H. Crossley. bibliog Ind & Eng Chem 34:1367-70 N '42

Surface treatments for rubber; protecting stored tires. W. L. Nelson. Oil & Gas J 40: 43 Ap 2 '42

What you can use; antioxidants for rubber. Oil Paint & Drug Rep 141:63 F 23; 43 Mr 16; 92 Mr 23; 52 Mr 30; 53 Ap 13; 62 Ap 20; 44 Ap 27; 77 My 11; 67 My 18; 142:66 S 14; 61 S 21; 62 S 28 '42

Analysis

Determination of nitrogen in rubber; abstract. E. H. Farmer, G. R. Tristram and J. L. Boland. Can Chem & Process Ind 26:182+ Mr '42

Determination of zinc in rubber compounds; a new internal indicator method. W. P. Tyler. bibliog Ind & Eng Chem Anal ed 14:114-18 F 15 '42

Evaluation of the buffer capacity of crude rubbers. E. B. Newton and E. A. Willson. Ind & Eng Chem 34:378-82 Mr '42

Rubber analysis of plants in South Carolina. J. H. Mitchell, M. A. Rice and D. B. Roderick. Science 95:624-5 Je 19 '42

Bacteriology

Bacterial oxidation of rubber. C. E. ZoBell and C. W. Grant. Science 96:379-80 O 23 '42

Bibliography

Rubber bibliography. Published in monthly numbers of India rubber world

Brittle point

Brittle point of rubber upon freezing. M. L. Selker, G. G. Winspear and A. R. Kemp. bibliog diag Ind & Eng Chem 34:157-60 F '42

Chemistry

Autoxidisability of the alkyl groups in xylene. E. H. Farmer and E. S. Narracott. Chem Soc J p185 F '42

Caoutchol component of natural rubber; a correction. K. C. Roberts. Chem Soc J p223-5 Ap '42

Chemical reactions during vulcanization. E. A. Hauser and M. C. Sze. bibliog J Phys Chem 46:118-31 Ja '42

Chemical reactions of rubber. R. L. Sibley. bibliog(110 references) India Rubber W 106: 244-7, 347-9 Je-Jl '42

Constitution of three-dimensional polymers and the theory of gelation. P. J. Flory. bibliog J Phys Chem 46:137-8 Ja '42

Course of autoxidation reactions in polyisoprenes and allied compounds; hydroperoxidic structure and chain scission in low-molecular polyisoprenes. E. H. Farmer and D. A. Sutton. Chem Soc J p139-48 F '42

Course of autoxidation reactions in polyisoprenes and allied compounds; the structure and reactive tendencies of the peroxides of simple olefins. E. H. Farmer and A. Sundralingam. Chem Soc J p121-39 F '42

Critical examination of some concepts in rubber chemistry. T. Midgley, jr. bibliog Ind & Eng Chem 34:891-6 Jl '42; Same. Rubber Age 51:291-7 Jl '42; Excerpt. Science 96:143-6 Ag 14 '42; Abstracts. India Rubber W 106:370 Jl '42; Oil & Gas J 41:54-5 Je 4 '42

Division of rubber chemistry, A.C.S., meets in Buffalo, Sept. 10-11; abstracts of papers. Rubber Age 51:383-8 Ag '42; India Rubber W 106:582-6 S '42

Effect of reinforcing pigments on rubber hydrocarbon. F. S. Thornhill and W. R. Smith. bibliog il Ind & Eng Chem 34:218-24 F '42

Fine chemical industry as a servant of the community. T. H. Durrans. Chem & Ind 61:211-12 My 9 '42

Nitroparaffins in the rubber industry. A. W. Campbell and J. W. Burns. India Rubber W 107:169-70 N '42

Polyhydric alcohol esters in our war effort; synthetic and natural rubber. J. W. Daum. il Chem Ind 51:522-3 O '42

Progress in rubber chemistry. Ind & Eng Chem 34:1255-1381 N '42

Rubber, polyisoprenes, and allied compounds; the molecule-linking capacity of free radicals and its bearing on the mechanism of vulcanisation and photo-gelling reactions. E. H. Farmer and S. E. Michael. Chem Soc J p513-19 Ag '42

Rubber, polyisoprenes, and allied compounds; the synthesis of low-molecular polyisoprenes of the rubber and the squalene type. E. H. Farmer and D. A. Sutton. Chem Soc J p116-21 F '42

Some of the recent developments in the field of thiocyanates. J. H. Clayton and B. Bann. bibliog Chem & Ind 61:420-2 O 17 '42

RUBBER—Chemistry—*Continued*

Thermal decomposition of natural and synthetic rubber stocks. I. B. Prettyman. bibliog diag Ind & Eng Chem 34:1294-8 N '42

What the rubber chemists are doing. Published in monthly numbers of India rubber world

See also
Rubber chemicals
Vulcanization

Chlorination

Maintenance paints and protective coatings; Parlon, chlorinated rubber-base paint. A. R. Olsen. Paper Tr J 113:37-8 N 13 '41; Same cond. with il. News Ed 19:1260, 1262, 1264 N 25 '41

Solvents and plasticizers for chlorinated rubber. J. W. Raynolds, M. R. Radcliffe and M. R. Vogel. bibliog Ind & Eng Chem 34:466-73 Ap '42

Conservation

Automotive design saves rubber in three places. il Product Eng 13:241-2 Ap '42

Belt maintenance. Mech Handling 29:187 O '42

Butadiene rubber still main key in relieving shortage. Oil & Gas J 41:29-30 Je 4 '42

Care and use of rubber-covered steam hose. Oil & Gas J 41:36 O 1 '42

Conservation. il Mech Eng 64:486-8 Je '42

Conservation of linemen's rubber protective equipment. R. M. Godwin. Edison Elec Inst Bul 10:256+ Jl '42

Conservation of rubber now occupies full attention of official Washington. Rubber Age 51:138-44 My '42

Don't abuse rubber; how to prolong its life. W. S. Richardson. il Factory Management 100:89-96 F '42; Abstract. Steel 110:50-1+ Mr 30 '42

How to increase the life of rubber hose. S. H. Coleman. Power Pl Eng 46:95 Jl '42

Keeping rubber in service; proper care prolongs life of belting and hose. il Can Chem & Process Ind 26:401+ Jl '42

Longer life for rubber. Elec West 88:38 My '42

Making rubber belting last longer. Mach 48:180 Ag '42

National rubber salvation depends on synthetic plan. H. D. Ralph. Oil & Gas J 41:16-17+ S 17 '42

Proper care of rubber belts. Power Pl Eng 46:106 O '42

Renews typewriter cylinders without new rubber. il Am Business 12:13 Ag '42

Replacements for latex in fiber products manufacture. R. T. Nazzaro. India Rubber W 106:345-6+ Jl '42

Rubber; basis of today's warfare. R. W. Horton and J. G. Scott. For Comm W 8:8+ Jl 4 '42

Rubberless girdle? Business Week p57-8+ S 19 '42

Simple precautions lengthen life of vital rubber parts. Oil & Gas J 40:162-3 Ap 30 '42

Testing writing inks with rubber fountain pen sacs. R. S. Casey and R. Macdonald. il Ind & Eng Chem Anal ed 14:720-1 S 15 '42

Tire and rubber situation. P. W. Litchfield. Franklin Inst J 234:180-3 Ag '42

200 do's and dont's that make rubber goods last longer. il Power 86:378-83 Je '42

WPB news. India Rubber W 106:592-4 S '42

We must have rubber to win; abstract. A. H. Williamson. Bus Transportation 21:315 Jl '42

William M. Jeffers in WPB rubber post. Ry Age 113:449 S 19 '42

See also
Rubber, Substitutes for

Crystallization

Internal structure of synthetic fibers and its influence on their physical properties; crystallization in rubber. E. H. Freund and H. Mark. Rayon 23:605 O '42

Statistical treatment of crystallization phenomena in high polymers. T. Alfrey and H. Mark. bibliog diag J Phys Chem 46:112-18 Ja '42

Curing

See Vulcanization

Electric properties

Static electric problems in tires. J. W. Liska and E. E. Hanson. bibliog diags Ind & Eng Chem 34:618-24 My '42

Freezing

Brittle point of rubber upon freezing. M. L. Selker, G. G. Winspear and A. R. Kemp. bibliog diag Ind & Eng Chem 34:157-60 F '42

Effects of low temperatures on neoprene vulcanizates; tests of rubber, neoprene GN and neoprene FR. F. L. Yerzley and D. F. Fraser. bibliog il diag Ind & Eng Chem 34:332-6 Mr '42

Joining to metal

Vinculux method of bonding rubber to metal. Rubber Age 50:356 F '42

Manufacture

Agricultural experiments give promise of new rubber extender; abstract. H. G. Knight. Rubber Age 51:31 Ap '42

Compounding of guayule rubbers; effect of accelerator-curing agent combinations. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 105:565-9 Mr '42

Compounding of guayule rubbers; effect of accelerator-curing agent combinations on the resistance to sunlight. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 107:31-2 O '42

Conservation of rubber latex. R. O. Babbit. India Rubber W 105:369-70 Ja '42

Evaluation of processes for the production of rubber; applicable to proposals for growing, synthesizing, or reclaiming rubber. Franklin Inst J 233:383-6 Ap '42

Extendex C, a new rubber extender. H. F. Schwarz. India Rubber W 106:137-8 My '42

Further electron microscope studies on colloidal carbon and the role of surface in rubber reinforcement. W. B. Wiegand. Can Chem & Process Ind 25:579-81 N '41; Same. India Rubber W 105:270-2 D '41

General principles of compounding with reclaim. P. M. Elliott. il Rubber Age 51:35-6 Ap '42

Guayule compounded with synthetic and natural rubbers. Sci Am 167:208 N '42

Naftolen as a plasticizer and extender for rubber in carbon black compounds. F. Rostler and V. Mehner. India Rubber W 105:473-7 F '42

Naftolen in carbon black compounds containing reclaim. F. Rostler and K. Rostler. India Rubber W 107:163-8 N '42

Neosyl MH, a new white reenforcing agent; abstract. J. R. Scott. India Rubber W 105:506-7 F '42

New method for extending the volume of latex. P. M. Fleuriel. Rubber Age 51:32-4 Ap '42

Nitroparaffin derivatives in the compounding of rubber; use as heat sensitizer for latex and anti-gelling agent for rubber cements. Rubber Age 52:35-6 O '42

Properties of citrus pectates and pectin and their relation to the rubber industry. C. W. Wilson. bibliog Rubber Age 51:121-4 My '42

Rational processing; abstract. T. H. Cotton. India Rubber W 105:404 Ja '42

Reclaim compounds with no crude rubber. H. C. Ghez. India Rubber W 106:142-5 My '42

Reclaimed rubber. G. K. Trimble. flow sheet il J Chem Educ 19:420-7 S '42

Reclaims and reclaiming. P. M. Elliott. il Chem & Eng N 20:1223-5, 1252-3 O 10 '42

Resinous hydrocarbon products as rubber extenders; coumarone and terpene resins. L. M. Geiger. India Rubber W 105:489-90 F '42

RUBBER—Manufacture—*Continued*

Studies in compounding guayule rubber. E. A. Hauser and D. S. le Beau. India Rubber W 106:447-9 Ag '42

Study of carbon blacks in natural and synthetic rubbers. I. Drogin. India Rubber W 106:561-9; 107:42-9, 272-7 S-O, D '42; Abstract. Rubber Age 51:483-8 S '42

Trilinear compounding; use of charts. D. B. Forman. Rubber Age 50:191-4 D '41

Use of factice in rubber. Can Chem & Process Ind 26:369 Je '42

USF, a new crude rubber. J. McGavack, C. E. Linscott and J. W. Haefele. flow sheet il Ind & Eng Chem 34:1335-40 N '42

See also

Carbon black

Rubber factories

Rubber goods—Manufacture

Rubber liner fabrics

Tires, Automobile—Manufacture

Vulcanization

Oxygen absorption

Manometric test for oxygen absorption by vulcanized rubber. R. H. Johnson. bibliog diag Rubber Age 50:109-13 N '41

Patents

Abstracts of patents relating to rubber latex; a supplement to Rubber latex. T. R. Dawson and R. W. Parris. 135p pa gratis British rubber publicity assn, London '41

Chemical reactions of rubber. R. L. Sibley. bibliog(110 references) India Rubber W 106:244-7, 347-9 Je-Jl '42

Patents and trade marks. Published in monthly numbers of India rubber world

See also

Rubber, Artificial—Patents

Prices

Market reviews. Published in monthly numbers of India rubber world

Markets. Published in monthly numbers of Rubber age

Price schedule no. 87, scrap rubber. India Rubber W 105:583-4 Mr '42

See also

Rubber waste—Prices

Rationing

Checklist of merchandising changes likely to follow rubber rationing. B. Duffy. Adv & Sell 35:27 Ap '42; Same cond. Management R 31:172-3 My '42

Rationed rubber & what to do about it. W. Haynes and E. A. Hauser. 181p $1.75 Knopf '42

Standards

Classifications proposed by automotive rubber committee. Rubber Age 51:60-1 Ap '42

New classifications for rubber compounds by joint A.S.T.M. and SAE committees. India Rubber W 106:467-9 Ag '42

See also

Rubber industry and trade—Regulation

Stretching

Rise of temperature on fast stretching of synthetics and natural rubbers. S. L. Dart, R. L. Anthony and E. Guth. bibliog diag Ind & Eng Chem 34:1340-2 N '42

Temperature

Rise of temperature on fast stretching of synthetics and natural rubbers. S. L. Dart, R. L. Anthony and E. Guth. bibliog diag Ind & Eng Chem 34:1340-2 N '42

See also

Rubber, Effect of temperature on

Testing

Committee D-11 ASTM on rubber products meets in Cleveland; hears reports from subcommittees aimed at conservation. Rubber Age 51:62 Ap '42

Compounding of guayule rubbers; effect of accelerator-curing agent combinations. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 105:565-9 Mr '42

Compression testing rubber compounds used in submarine cables. F. L. Downs. il India Rubber W 106:39-42 Ap '42

Electrical properties of conductive rubber. diags Rubber Age 50:203-5 D '41

Firestone high-frequency torsion tester. il India Rubber W 105:570+ Mr '42

Hoppler Konsistometer for testing raw, intermediate and finished products of the rubber industry. diag India Rubber W 105:402 Ja '42

Manometric test for oxygen absorption by vulcanized rubber. R. H. Johnson. bibliog diag Rubber Age 50:109-13 N '41

Method of recording changes in hardness of rubber. diag Rubber Age 51:482 S '42

New classifications for rubber compounds by joint A.S.T.M. and SAE committees. India Rubber W 106:467-9 Ag '42

Proposed method of test for indentation of rubber by means of the durometer. diag Rubber Age 52:37-8 O '42

Tensile testing of rubber compounds at high temperatures. R. Thorndike. il Rubber Age 50:345-52 F '42

Use of X-rays in the rubber industry. R. T. Foreman. il Rubber Age 50:355-6 F '42

Vibration properties of rubberlike materials; dependence on temperature. R. B. Stambaugh. bibliog il diag Ind & Eng Chem 34:1358-65 N '42

Textile uses

Recent British developments in rubber for textiles. C. H. S. Tupholme. Textile Col 64:475-8 O '42

Rubber in textiles. Textile Col 64:43-6 Ja '42

See also

Rubberized fabrics

Uses

See also

Rubber goods

Rubber latex

RUBBER, Artificial

Agricultural experiments give promise of new rubber extender; abstract. H. G. Knight. Rubber Age 51:31 Ap '42

Alcohol-rubber gets support of big names in farm bloc. Nat Pet N 34:13 My 13 '42

Amendment no. 1 to preference order no. M-13 on synthetic rubber. Rubber Age 50: 267-8 Ja '42; Same. India Rubber W 105: 480+ F '42

American chemical society meeting; abstracts of papers relating to ingredients associated with production of synthetic rubber. India Rubber W 106:258 Je '42

Appendix to the Baruch rubber committee report on the chemistry of synthetic rubber; text. Rubber Age 52:58-60 O '42

As the record on rubber unfolds; chronological review. il Automotive & Aviation Ind 87:168-71+ O 1 '42

Baruch committee recommendations. India Rubber W 107:57-9 O '42

Baruch committee urges nation-wide gas ration to conserve rubber; other restrictions. Comm & Fin Chr 156:985, 990-1 S 17 '42

Baruch-Compton-Conant report challenges us all; with excerpts from report. J. A. Conry. il Chem & Met Eng 49:83-7 O '42

Baruch report; text. Nat Pet N 34:5, 21-2+ S 16 '42; Digest. Rubber Age 51:506-8, 511-12 S '42

Baruch's rubber prescription; committee report. Business Week p15-16 S 19 '42

Being a few words about rubber. P. B. Slawter, jr. Chem Ind 51:410, 412 S '42

Between the lines; synthetic rubber program. il Chem Ind 51:202, 204 Ag '42

British synthetic rubber industry? India Rubber W 107:82+ O '42

Butadiene is real bottleneck in synthetic-rubber program. J. P. O'Donnell. il Oil & Gas J 40:128, 130+ Mr 26 '42

Butadiene rubber still main key in relieving shortage. Oil & Gas J 41:29-30 Je 4 '42

Butane supply ample for 100-octane and rubber. G. G. Oberfell. Nat Pet N 34:17 Je 17 '42

RUBBER, Artificial—*Continued*

Butyl rubber, synthetic made from petroleum; abstracts. W. S. Farish. Comm & Fin Chr 155:1153 Mr 19 '42; Oil & Gas J 40:22 Mr 19 '42

Butyl rubber tires. F. Thone. Science 96: sup10 S 18 '42

Characteristics of natural synthetic rubbers; abstract. P. Kluckow. India Rubber W 106: 616-17 S '42

Chemical aspects of synthetic rubber. H. F. Crow. Nat Pet N 34 pt 2:R330, R332 S 30 '42

Comparison of synthetic rubbers made by Baruch committee; synthetic rubber program. il Rubber Age 52:50-2 O '42

Congress passes Gillette-Fulmer bill; other measures. India Rubber W 106:472, 475-6 Ag '42

Congressional committees continue investigations on synthetic. il Rubber Age 51:223-6 Je '42

Conservation of rubber now occupies full attention of official Washington. Rubber Age 51:139-41 My '42

Cost of synthetic rubber. Oil & Gas J 40:52 F 5 '42

Coulee rubber? big synthetic industry for Pacific Northwest proposed by Bonneville administration. Business Week p46+ My 9 '42

Denies delay in synthetic rubber program; reports large output planned. J. Jones. Comm & Fin Chr 155:1559 Ap 16 '42

Determination of butadiene stock for rubber manufacture. diags Oil & Gas J 40:41+ Ja 22 '42

Develop synthetic rubber from soybean and corn oils. Comm & Fin Chr 156:274 Jl 23 '42

Disadvantages of synthetic rubber; abstract. Rubber Age 51:388 Ag '42

Ebonite from Hycar OR-15. B. S. Garvey, jr. and D. V. Sarbach. Ind & Eng Chem 34: 1312-15 N '42

Elastomers in the nation's war program. W. C. Geer. bibliog il Chem Ind 50:22-31 Ja '42

Electric cable insulation from synthetic rubbers. S. E. McCrary and others. India Rubber W 107:157-62+ N '42

Equation of state of some synthetic rubbers. L. E. Peterson, R. L. Anthony and E. Guth. Ind & Eng Chem 34:1349-52 N '42

Facts about our rubber situation. P. W. Drew. S A E J 50:sup16-17 My '42

Farish charges case against Standard jerry-built house; defense by president of Standard oil co. (New Jersey), to agreements made by his company with I. G. Farbenindustrie. Oil & Gas J 41:30-1 Ag 27 '42

Farm-bloc rubber project turned down by President. Oil Paint & Drug Rep 142:7+ Ag 10 '42

Final plans laid for Thiokol-Dow synthetic plant. Nat Pet N 34:15 Jl 1 '42

Fine chemical industry as a servant of the community. T. H. Durrans. Chem & Ind 61:211-12 My 9 '42

First all Buna S conveyor belt produced at Hewitt plant. Paper Tr J 115:31 S 24 '42

Florida rubber; planting of cane, sweet potatoes, and peanuts proposed as new source for synthetics. Business Week p69 My 2 '42

Formidable chemical formula that spells Buna-S. Fortune 25:92-3 Je '42; Correction. il 26:141 Ag '42

$400,000,000 rubber program presents problems to refiners. W. L. Nelson. Oil & Gas J 40:19 Ja 15 '42

400,000-ton synthetic capacity scheduled for mid-1943. India Rubber W 105:494-5 F '42

Fourteen refiners participate in synthetic-rubber program. Oil & Gas J 40:16-17 Ap 9 '42

FDR seeks facts on rubber. Nat Pet N 34: 6-7 Ag 12 '42

Getting the bad news on rubber. Business Week p15-16 Mr 14 '42

Gillette committee swings into hearings on possibilities of farm alcohol-rubber. Nat Pet N 34:9-10 Ap 29 '42

Goal again boosted on synthetic rubber. Nat Pet N 34:3+ Mr 11 '42

Government's synthetic rubber program adds to refiners' war-time problems. G. B. Murphy. Nat Pet N 34:R17-18 Ja 21 '42

Grain alcohol program for rubber production. India Rubber W 106:265-6 Je '42

Heats of combustion and specific heats of variously treated Buna S rubbers; abstract. W. A. Roth. Chem & Met Eng 49:183 F '42

How synthetic rubbers meet current demand. O. D. Cole. bibliog il Machine Design 14: 76-81 Jl '42

Hycar synthetic rubber; properties, etc. Product Eng 13:347-8 Je '42

Inclusion of civilian tires is urged in long-term policy; abstract. W. S. Farish. Oil & Gas J 40:16 Ap 9 '42

Industrial chemistry and post war conditions. S. A. Brazier. Chem & Ind 60:891-2 D 20 '41

Industrial progress in synthetic rubber-like polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42; Excerpt (Economics of synthetic rubber production). Chem & Met Eng 49:150-1 Ja '42; Excerpt (Synthetic rubber in the U.S.; production capacity). Chem Age (Lond) 46:157 Mr 21 '42

Industry's problems in securing and using synthetic rubber; abstract. J. M. Ball. India Rubber W 107:174-5 N '42

Interesting developments in synthetic rubber situation; with statistical data. Rubber Age 51:502-3 S '42

It stretches; synthetic rubber thread for military uses. W. S. Richardson. il Sci Am 167:30 Jl '42

Jeffers acts to increase synthetic rubber output. Nat Pet N 34:21-2 O 14 '42

Man-made safety; synthetic rubber gloves. il Safety Eng 84:32 O '42

Mobilizing petroleum hydrocarbons. G. F. Fitzgerald. bibliog il diag Chem & Met Eng 49:83-7 Mr '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

National rubber salvation depends on synthetic plan. H. D. Ralph. Oil & Gas J 41: 16-17+ S 17 '42

Natural and synthetic rubber, 1941. Chem & Met Eng 49:89-90 F '42

Natural and synthetic rubbers. H. L. Fisher. il Am Soc T M Proc 41:527-51 bibliog(p549-51) '41

Natural and synthetic rubbers. H. L. Fisher. bibliog il J Chem Educ 19:527-30 N '42

New developments in the rubber situation. flow charts il diag Automotive & Aviation Ind 87:26-9+ Ag 15 '42

New mineral product, synthetic rubber; its need and prospects. M. B. Hopkins. Min & Met 23:151-3+ Mr '42

New source of synthetic rubber; sugar cane, sweet potatoes and peanuts from Everglades. il Manuf Rec 111:24-5 My '42

New synthetic rubber bill. India Rubber W 106:159-60 My '42

New technique raises yield of refinery war materials; Standard oil co. of New Jersey fluid catalyst process in conjunction with the sulfuric acid alkylation. J. P. O'Donnell. diag Oil & Gas J 41:34-5 My 28 '42

Nitroparaffins in the rubber industry. A. W. Campbell and J. W. Burns. India Rubber W 107:169-70 N '42

Oil industry's part in rubber plans may benefit by probe. H. D. Ralph. il Oil & Gas J 41:24-5 Ag 27 '42

Oil's rubber "plantation" to supply wartime demand. H. S. Norman. il Oil & Gas J 40: 24-5 Mr 12 '42

100,000 miles of life from synthetic tire predicted. G. Egloff. Nat Pet N 34:38 N 4 '42

Oppanols. India Rubber W 107:198+ N '42

Perbunan rubber; properties, etc. Product Eng 13:163-4 Mr '42

Petroleum officials predict achievement of synthetic rubber goal. Rubber Age 50:366 F '42

Petroleum research and wars. B. T. Brooks. bibliog il Ind & Eng Chem 34:798-803 Jl '42

RUBBER, Artificial—*Continued*

Possibilities of Mareng cell; transporting motor fuel to distressed localities. il Steel 111:68+ Jl 6 '42

Preparation and applications of the new synthetic rubbers. H. Boxser. il Am Dyestuff Rep 31:152-4+ Mr 30 '42

President vetoes the Farm rubber bill; appoints new fact-finding committee. Rubber Age 51:406-7 Ag '42

Priorities trouble delays 2 alcohol-butadiene units. Nat Pet N 34:15-16 My 20 '42

Real rubber policy; job of Baruch committee. Business Week p15-16 Ag 15 '42

Refiners will participate in new $400,000,000 plan to make synthetic rubber. Nat Pet N 34:15 Ja 14 '42

Rise of temperature on fast stretching of synthetics and natural rubbers. S. L. Dart, R. L. Anthony and E. Guth. bibliog diag Ind & Eng Chem 34:1340-2 N '42

Roosevelt names special committee to study rubber situation; vetoes independent agency bill. Comm & Fin Chr 156:543 Ag 13 '42

Rubber conspiracy charges denied by Rubber reserve co.'s Dearborn. Nat Pet N 34:16 Ag 19 '42

Rubber conspiracy charges hurled by Texan at hearing. Nat Pet N 34:16 Ag 12 '42

Rubber; efforts to provide substitute sources of supply. Index 22 no 2:25-33 [Je] '42

Rubber holds limelight in U.S. capital. Nat Pet N 34:3+ Jl 22 '42

Rubber: how do we stand? map Fortune 25:92-6+ Je '42

Rubber needs in war seen dependent on synthetic product. Oil Paint & Drug Rep 141: 3+ Je 1 '42

Rubber 1943 output goal 500,000 tons. Oil Paint & Drug Rep 141:5+ Mr 2 '42

Rubber, 100-octane fuel need large volume of base stocks. W. L. Nelson. il Oil & Gas J 40:10-11 Ja 22 '42

Rubber output 1,100,000 tons by 1944 asked by Baruch board. Oil Paint & Drug Rep 142:3+ S 14 '42

Rubber, polyisoprenes, and allied compounds; the synthesis of low-molecular polyisoprenes of the rubber and the squalene type. E. H. Farmer and D. A. Sutton. Chem Soc J p116-21 F '42

Rubber problem; American chemical society symposium. Oil Paint & Drug Rep 142:37 S 21 '42

Rubber problem; history, present status and solution; synthetic rubbers. C. E. Beland. Can Chem & Process Ind 26:457-9 Ag '42

Rubber situation clarified. A. H. Allen. Steel 111:63-4 Jl 6 '42

Rubber supply agency voted by Congress. Comm & Fin Chr 156:376 Jl 30 '42

Rubber symposium; SAE Cleveland section meeting. il S A E J 50:sup18-20+ O '42

Rubber, the big question. G. T. Montgomery. il Transit J 86:315-17 S '42

Rubber, today and tomorrow. G. W. Gray. il Tech R 44:442-3+ Jl '42

S-125, new plasticizer for synthetic rubber. Rubber Age 50:113 N '41

Seek emergency source from small refiners as butadiene shortage hits rubber program. Nat Pet N 34:15-16 My 27 '42

Senate committee investigating situation in synthetic rubber. Rubber Age 50:451-2 Mr '42

Separate rubber board opposed by Nelson. Comm & Fin Chr 156:286 Jl 23 '42

Soybean rubber substitute. Science 95: sup10+ Ja 9 '42

Specific heat of the synthetic rubber Hycar O.R. from 15° to 340° K. N. Bekkedahl and R. B. Scott. bibliog J Research Nat Bur Stand 29:87-95 Jl '42

Standard Oil on synthetics. India Rubber W 105:287 D '41

Stickiness, tackiness, and spinnability; possible molecular interpretation. D. Josefowitz and H. Mark. bibliog diags India Rubber W 106:33-7 Ap '42

Story of rubber from corn unfolds at Senate hearing; W. Szukiewicz's invention for making butadiene from alcohol. Nat Pet N 34:16 My 6 '42

Styrene from petroleum for synthetic rubber. Oil & Gas J 41:168 Jl 30 '42

Sufficient butane can be made available for synthetic rubber. W. L. Nelson. il Oil & Gas J 40:199-200 Ja 29 '42

Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42; Excerpts. India Rubber W 106:251 Je '42

Synthetic dispersions. India Rubber W 107: 86+ O '42

Synthetic elastomers; how molecules are manipulated to make new rubber-like materials. S. J. French. Sci Am 167:10-13 Jl '42

Synthetic material for isolating vibration and shock; Keldur. Mach 48:160 Je '42

Synthetic program; extracted from the report of Baruch committee. Ind & Eng Chem 34:1256-9 N '42

Synthetic resins and synthetic rubbers; chart revised. P. O. Powers. Chem & Eng N 20: 536-8 Ap 25 '42

Synthetic rubber. E. R. Bridgwater. Franklin Inst J 233:255-34 Mr '42

Synthetic rubber. H. I. Cramer. Can Chem & Process Ind 26:334-6 Je '42

Synthetic rubber, chemical and physical properties. Chem & Met Eng 49:97-9 S '42

Synthetic rubber expansion held unnecessary by Jesse Jones in 1940. W. L. Batt. Comm & Fin Chr 155:1348 Ap 2 '42

Synthetic rubber hits a million; new quota which RFC has set. Business Week p15-16 My 30 '42

Synthetic rubber, how much, how soon? S. B. Self. Barron's 22:13 Ap 27 '42

Synthetic rubber in industry. H. H. Harkins. il Chem & Met Eng 49:78-82 Mr '42; Same. Paper Tr J 114:35-8 My 7 '42

Synthetic rubber; its development, production capacity and use. O. M. Hayden. Mech Eng 64:109-12 F '42; Same. Engineer 173: 285-7 Ap 3 '42

Synthetic rubber lag perturbs the Senate. Oil Paint & Drug Rep 141:5+ F 23 '42

Synthetic rubber output planned by 25 companies. Oil Paint & Drug Rep 141:4+ Ap 6 '42

Synthetic-rubber plans move forward despite confusion. H. S. Norman. il Oil & Gas J 41:28-9 Je 4 '42

Synthetic rubber problems. R. T. Haslam. Manuf Rec 111:26+ My '42

Synthetic rubber situation. A. B. Newhall. Chem & Eng N 20:971 Ag 10 '42

Synthetic rubber tires in Russia. India Rubber W 106:76-9 Ap '42

Synthetic rubber; Voronezh, Russia, one of the Soviet Union's leading sources. Science 96:105 Jl 31 '42

Synthetic rubbers; abstract. Chem & Met Eng 48:170-1 N '41

Synthetic rubbers, their place in the rubber industry and their use in war production; abstract. J. W. Crosby. Can Chem & Process Ind 26:238 Ap '42

Synthetic rubbers to meet requirements of natural rubber in industry. C. C. Pryor. Pet Eng 13:127-8 My '42

Synthetics from farm crops; abstract. L. M. Christensen. India Rubber W 105:477 F '42

Synthetics; recent developments. C. P. Kidder. il Automobile Eng 31:455-7 D '41

Texas group pushes program for rubber from acetylene gas. Nat Pet N 34:17-18 F 25 '42

Texas seeks funds to make rubber from casinghead gas. Nat Pet N 34:6 Ja 7 '42

That rubber report, at last. Chem Ind 51:397 S '42

Theory of rubber elasticity for development of synthetic rubbers. H. M. James and E. Guth. bibliog il Ind & Eng Chem 34: 1365-7 N '42

Thiokol, an antifreeze that bounced, points to new industry, hope for tires. A. Shoenfield. il Steel 110:51-2 Je 22 '42

Thiokol synthetic rubber type RD. J. W. Crosby. India Rubber W 106:133-5 My '42

RUBBER, Artificial—*Continued*

Threat and promise in Baruch rubber report. il Barron's 22:6 S 21 '42

Tires for all; the rubber industry's program. il Nat Pet N 34:9-10 Jl 29 '42

25 companies to make synthetic rubber. Comm & Fin Chr 155:1451 Ap 9 '42

Unsaturation of synthetic rubberlike materials. L. E. Cheyney and E. J. Kelley. bibliog(37 references) Ind & Eng Chem 34:1323-6 N '42

Urges action to cope with rubber problem. J. L. Collyer. Comm & Fin Chr 155:2122 Je 4 '42

Urges more synthetic rubber from grain. C. R. Wickard. Comm & Fin Chr 155:1870 My 14 '42

Vibration properties of rubberlike materials; dependence on temperature. R. B. Stambaugh. bibliog il diag Ind & Eng Chem 34:1358-65 N '42

War council committee will study expanded rubber plan. H. D. Ralph. Oil & Gas J 40:12-13 Ap 16 '42

WPB orders increase in synthetic rubber. Comm & Fin Chr 155:1711 Ap 30 '42

WPB studies Houdry process for manufacturing butadiene. Nat Pet N 34:16 Jl 8 '42

War-quality fuels to become standard when conflict ends; effect of rubber shortage on petroleum industry; abstract. C. L. Burrill. Oil & Gas J 40:34 Ap 23 '42

What if our supply of natural rubber is cut off? W. T. Ziegenhain. il Oil & Gas J 40:17+ Ja 8 '42

What synthetic rubber plans mean. Barron's 22:1 Ja 19 '42

When can we make our own rubber? F. Barton. il Am Business 12:34-6, 42-3 F '42

Work of the WPB committee on educational program for synthetic rubber. India Rubber W 106:589 S '42

See also

Neoprene

Thiokol

Aging

Light and accelerated light aging of rubber, synthetic rubber, and rubber substitutes. T. A. Werkenthin and others. il Rubber Age 50:103-8, 199-202 N-D '41

Sunlight and accelerated light aging of synthetic rubbers. R. E. Morris, R. R. James, and T. A. Werkenthin. Rubber Age 51:205-8 Je '42

Bibliography

Synthetic rubber. 10p Tulsa public lib, Technical dept, Tulsa, Okla. '42; Same. Pet Eng 13:45-6, 48 Je '42

Synthetic rubber; some recent references to American publications. B. A. Osborne, comp. 2d ed 17p pa 10c Technical dept, Tulsa public lib, Tulsa, Okla. '42

Light aging

See Rubber, Artificial—Aging

Manufacture

Action of organic accelerators in Buna S. G. R. Vila. bibliog Ind & Eng Chem 34:1269-76 N '42

Ameripol; synthetic rubber developed by U.S. scientists. C. C. Pryor. il Pet Eng 13:31-3 Ag '42

Atlantic refining company discovers new process to speed up production of synthetic rubber. Comm & Fin Chr 156:510 Ag 10 '42

Buna synthetic rubbers intensively developed. C. C. Pryor. il Pet Eng 13:33-5, 38 S '42

Butyl-rubber potential yield is doubled by revised plan. Oil & Gas J 41:64 Jl 30 '42

Butyl rubber properties and compounding. J. P. Haworth and F. P. Baldwin. bibliog Ind & Eng Chem 34:1301-8 N '42

Chemistry of making butadiene (for rubber). W. L. Nelson. Oil & Gas J 41:54 O 8 '42

Chemistry of synthetic rubber is discussed in new appendix to Baruch committee report. Nat Pet N 34:20-1 O 14 '42

Coal in the manufacture of synthetic rubbers. H. L. Fisher. bibliog Ind & Eng Chem 34:1382-6 N '42; Abstract. Coal Age 47:157-8 O '42

Compounding and processing of butyl rubber. I. E. Lightbown. Rubber Age 51:377-80 Ag '42

Compounding and processing of government synthetic rubber; Buna S. C. A. Carlton and E. B. Reinbold. Rubber Age 52:29-34 O '42

Compounding Buna S synthetic rubber. bibliog India Rubber W 106:453-8+, 572-5; 107:36-41 Ag-O '42

Construction of rubber plant in California is authorized. Oil & Gas J 41:25 Jl 16 '42

Developments in the synthetic rubber situation. Rubber Age 51:408-9, 412-13 Ag '42

Effect of carbon blacks in synthetic tire compounds, standardized American butadiene-styrene rubber. B. S. Garvey, jr. and J. A. Freese, jr. bibliog Ind & Eng Chem 34:1277-83 N '42

Ethyl benzene plan provides agricultural-alcohol outlet. diags Oil & Gas J 41:14-15 Ag 6 '42

Evaluation of small amounts of synthetic rubber; compounding, mixing, and testing. B. S. Garvey, jr. bibliog il Ind & Eng Chem 34:1320-3 N '42

Fitting together the rubber puzzle. Barron's 22:6 Je 29 '42

Future rubber policy second only to winning present war. A. L. Foster. Oil & Gas J 41:18 O 15 '42

Guayule compounded with synthetic and natural rubbers. Sci Am 167:208 N '42

Houdry claims faster and less costly process for butadiene. il Oil & Gas J 41:24-5 Jl 16 '42

Houdry opens attack on butadiene program. Nat Pet N 34:3-4, 14-19 Jl 15 '42

Houdry process; campaign to have War production board adopt process of producing butadiene from petroleum. Rubber Age 51:315-16 Jl '42

Importance of natural gasoline and its derivatives to the synthetic rubber and aviation gasoline programs; abstract. F. H. Dotterweich and P. Raigorodsky. Nat Pet N 34:19 O 14 '42

Industrial progress in synthetic rubberlike polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42

Isobutylene recovery urged to increase rubber output. diag Oil & Gas J 41:15 Ag 6 '42

Jersey Standard shows congressmen how to make rubber in a test tube. il Nat Pet N 34:22, 24+ Jl 22 '42

Jones outlines rubber program. India Rubber W 106:160 My '42

Manufacture of synthetic rubber. G. B. Murphy. bibliog il Nat Pet N 34:R51-2, R54, R56-7 F 18 '42

Manufacturing and processing of Buna-type synthetic rubbers. H. J. Mueller. bibliog India Rubber W 107:33-5+ O '42

Materials needs compared for butadiene processes. Nat Pet N 34:16 Je 10 '42

Naftolen as a compounding material for synthetic rubbers of the Buna N type. F. Rostler and V. Mehner. Rubber Age 51:27-31, 125-8 Ap-My '42

Natural gas cycling industry expands with valuable by-products. F. H. Dotterweich. bibliog il Am Gas J 156:40-1+ My '42

Natural gas derivatives can be converted into wide range of wartime chemicals. G. Egloff. il Nat Pet N 34 pt 2:R344-5 O 28 '42

Neglect of oil finding places future reserves in jeopardy; artificial rubber manufacture. F. Phillips. Oil & Gas J 41:18+ O 1 '42

New process increases butene output for synthetic rubber. India Rubber W 106:267 Je '42

Perbunan properties and compounding. R. A. Moll, R. M. Howlett and D. J. Buckley. bibliog Ind & Eng Chem 34:1284-91 N '42

Petroleum rubber route more economical than alcohol. H. D. Ralph. il Oil & Gas J 41:26-7+ Ag 13 '42

RUBBER, Artificial—Manufacture—*Continued*

Phillips' contract for 45,000-ton rubber plant in Southwest has not been cancelled. F. Phillips. Oil & Gas J 41:176 Jl 30 '42; Same. Nat Pet N 34:18 Jl 29 '42
Piccocizer 30, a new plasticizer. Rubber Age 51:208 Je '42
Plan to triple production of synthetic rubber by '43. il Nat Pet N 34:20 Ja 7 '42
Polish alky-rubber plant viewed by 11 congressmen. O. H. Knight. Nat Pet N 34:22 Jl 15 '42
Processing synthetic rubber. Chem & Met Eng 49:113 F '42
Progress of butadiene production. A. L. Elder. il Ind & Eng Chem 34:1260-6 N '42
Quick butadiene; the oil industry's answer. il Nat Pet N 34:14-16, 18 Ag 5 '42
Refiners shift into high in quick conversion program. H. D. Ralph. Oil & Gas J 41:12 Ag 6 '42
Refinery conversion favored in raising butadiene output. Oil & Gas J 41:23 S 17 '42
Refrigeration for comfort conditioning to be drafted for essential production; machines needed for synthetic rubber plants. E. P. Heckel. il Heating-Piping 14:650-2 N '42
Resurvey of butadiene plans fails to justify revision. Oil & Gas J 41:14-16 Jl 23 '42
Review of butadiene gives insight to rubber program. A. L. Elder. Oil & Gas J 41:15, 92 S 17 '42; Abstract. Nat Pet N 34:11 S 16 '42
Rubber from alcohol. Rubber Age 51:315 Jl '42
Rubber-from-petroleum chart. Nat Pet N 34: R190-1 Je 10 '42
Rubber made in U.S.A.; Ameripol. il Chem & Met Eng 49:114-15 F '42
Rubber processes frozen; Baruch advises no change. Nat Pet N 34:12-13 S 16 '42
Rubber situation clarified by committee disclosures. H. D. Ralph. Oil & Gas J 41:12-14 Jl 23 '42
Rubber substitutes and plans for their large-scale production. P. M. Heldt. charts Automotive & Aviation Ind 86:32-5+ Je 15 '42
Short isobutylene supply to curtail Flexon production. Nat Pet N 34:16 S 9 '42
Soap in the rubber crisis; synthetic rubber calls for the use of 100,000,000 pounds of tallow chip soap yearly in butadiene manufacture. il Soap & San Chem 18:28-31 N '42
S. O. advertises to clarify stand on synthetic rubber; fourteen oil companies, six chemical and one rayon firm, slated to turn out butadiene and styrene. Sales Management 51:44-5 Ag 1 '42
Standard oil company of New Jersey develops simultaneous method of making rubber, 100-octane gasoline. Nat Pet N 34:16 My 27 '42
Study of carbon blacks in natural and synthetic rubbers. I. Drogin. il India Rubber W 106:561-9; 107:42-9, 272-7 S-O, D '42; Abstract. Rubber Age 51:483-8 S '42
Synthetic rubber and 100-octane gasoline; abstract. J. H. Simons. Science 96:sup8 Jl 17 '42
Synthetic rubber output to be stepped up to 700,000 tons yearly. J. Jones. India Rubber W 106:62 Ap '42
Synthetic rubber plants listed. Nat Pet N 34:20 Jl 22 '42
Synthetic rubber raw material and polymerization plants listed. India Rubber W 106: 595 S '42
Synthetic rubber to meet war program needs. il Aero Digest 40:178, 180 F '42
Theop, new plasticizer for synthetic rubber. Rubber Age 51:298 Jl '42
Toxicology of acrylonitrile (vinyl cyanide). H. C. Dudley and P. A. Neal. bibliog diags J Ind Hygiene 24:27-36 F '42
Trilinear compounding; use of charts. D. B. Forman. Rubber Age 50:191-4 D '41
Two quick methods of producing rubber. W. S. Farish. il Oil & Gas J 41:16 Jl 23 '42
United carbon company sponsors two conferences on the use of carbon blacks in the compounding of synthetic rubbers. Rubber Age 51:419 Ag '42; India Rubber W 106:596 S '42
Why we must make more synthetic rubber; simplified chart showing preparation of vulcanizable synthetic rubbers. il map Chem & Met Eng 49:76-7 Je '42

Patents

Abstracts of United States patents on the compounding and use of synthetic rubber. F. Marchionna. Rubber Age 51:209-12, 302-4, 494-7; 52:42-5, 138-41 Je-Jl, S-N '42 (to be cont)
Butyl and buna patents freed in consent decree signed by Standard Oil. Rubber Age 51:48-52 Ap '42
Data on pooled patents. Rubber Age 51:316-17 Jl '42
Defends Standard of New Jersey; abstract. B. T. Brooks. Chem Ind 50:638 My '42
Farish testifies on Standard synthetic rubber development. India Rubber W 106:158-9 My '42
German patents relating to vinyl polymers. L. Voge. bibliog India Rubber W 105:37-8, 157-8, 471-2 O-N '41, F '42; new series. M. Hoseh. bibliog 105:571-2; 106:43-4, 139-40, 248-9, 357-8, 459-60, 629; 107:171-2 Mr-S, N '42 (to be cont)
Major industry supports general defense; international transactions brought synthetic rubber patents here. W. H. Hillyer. il Barron's 22:13, 18 Ap 27 '42
Senate probes synthetic rubber; charges against New Jersey Standard. il Nat Pet N 34:3-6, 26, 28 Ap 1; 5-9 Ap 8 '42
Standard oil company of New Jersey explains foreign refining patent position. Oil & Gas J 40:21-2+ Ap 2 '42
Standard refutes charge of blocking rubber plan. H. D. Ralph. Oil & Gas J 40:20-1 Ap 2 '42
Synthetic rubber patents freed in anti-trust action. India Rubber W 106:58, 61 Ap '42
Synthetic rubber patents freed; Standard Oil (N.J.) consent decree. Oil Paint & Drug Rep 141:4+ Mr 30 '42

Standards

New classifications for rubber compounds by joint A.S.T.M. and SAE committees. India Rubber W 106:467-9 Ag '42
Standard SAE-ASTM specifications recommended for synthetic rubbers. S A E J 50: sup20-2 Je '42

Testing

Brittle point of rubber upon freezing. M. L. Selker, G. G. Winspear and A. R. Kemp. bibliog diag Ind & Eng Chem 34:157-60 F '42
Butyl rubber properties and compounding. J. P. Haworth and F. P. Baldwin. bibliog Ind & Eng Chem 34:1301-8 N '42
Density measurements on synthetic rubbers. L. A. Wood, N. Bekkedahl and F. L. Roth. diag Ind & Eng Chem 34:1291-3 N '42; Same. J Research Nat Bur Stand 29:391-6 D '42
Effect of aniline point of oil on swelling of synthetic rubbers. A. C. Hanson. Ind & Eng Chem 34:1326-7 N '42
Effects of low temperatures on neoprene vulcanizates; tests of rubber, neoprene GN and neoprene FR. F. L. Yerzley and D. F. Fraser. bibliog il diag Ind & Eng Chem 34:332-6 Mr '42
Evaluation of small amounts of synthetic rubber; compounding, mixing and testing. B. S. Garvey, jr. bibliog il Ind & Eng Chem 34:1320-3 N '42
New classifications for rubber compounds by joint A.S.T.M. and SAE committees. India Rubber W 106:467-9 Ag '42
Processing characteristics of synthetic tire rubber. B. S. Garvey, jr., M. H. Whitlock and J. A. Freese, jr. il diags Ind & Eng Chem 34:1309-12 N '42
Thermal decomposition of natural and synthetic rubber stocks. I. B. Prettyman. bibliog diag Ind & Eng Chem 34:1294-8 N '42
Volume change of Hycar OR-15 compounds on immersion. A. E. Juve and B. S. Garvey, jr. Ind & Eng Chem 34:1316-19 N '42

RUBBER, Cellular
Cellular rubber is light in weight, used in life rafts. Sci Am 167:28-9 Jl '42; Mach 48:219 Jl '42

RUBBER, Effect of light on
Light and accelerated light aging of rubber, synthetic rubber, and rubber substitutes. T. A. Werkenthin and others. il Rubber Age 50:103-8 N; 199-202 D '41

RUBBER, Effect of sunlight on
Compounding of guayule rubbers; effect of accelerator-curing agent combinations on the resistance to sunlight. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 107:31-2 O '42
Effect of temperature on the sunlight deterioration of a rubber compound. J. M. Ball and C. E. Bradley, jr. il Rubber Age 50:425-30 Mr '42

RUBBER, Effect of temperature on
Effect of temperature and pressure on oxygen pressure aging. A. M. Neal, H. G. Bimmerman and J. R. Vincent. bibliog Ind & Eng Chem 34:1352-7 N '42
Effect of temperature on the sunlight deterioration of a rubber compound. J. M. Ball and C. E. Bradley, jr. il Rubber Age 50:425-30 Mr '42
Method of recording changes in hardness of rubber. diag Rubber Age 51:482 S '42
Tensile testing of rubber compounds at high temperatures. R. Thorndike. il Rubber Age 50:345-52 F '42
Thermal decomposition of natural and synthetic rubber stocks. I. B. Prettyman. bibliog diag Ind & Eng Chem 34:1294-8 N '42
Vibration properties of rubberlike materials; dependence on temperature. R. B. Stambaugh. bibliog il diag Ind & Eng Chem 34:1358-65 N '42

RUBBER, Expanded
Structure, properties, and uses of Rubatex. H. Pfleumer. il India Rubber W 105:573-7 Mr '42

RUBBER, Powdered
Application of rubber powder to asphalt road mixtures. G. J. Van Der Bie and P. T. Wijnhamer. Roads & Sts 84:36-40 N '41

RUBBER, Sponge
Using a band saw to cut sponge rubber and other resilient materials. H. J. Chamberland. il Mach 49:169-70 S '42

RUBBER, Substitutes for
Advertises a substitute for what it is; Bull Dog jar rubber. il Ptr Ink 199:36 Je 26 '42
Covering binocular bodies; vinyl resin fabric backed coating. W. R. Bailey. il Mod Plastics 20:50-3 O '42
Ethyl cellulose is base of rubber-replacing plastic. Sci Am 167:208 N '42
Ethyl rubber; new cotton-alcohol plastics developed by Hercules powder co. Business Week p53-5 Ag 29 '42
Flexible molds; use of Korogel. S. Wein. il diags Metal Finishing 40:361-2 Jl '42
Molding with non-critical materials; redwood and lignocellulose fibers and resins, Colemorite 2-L. C. P. Morgan. il Mod Plastics 20:60-1 N '42
New coated finish; vinyl acetal plastic in place of rubber to waterproof army fabrics. il Textile World 92:88-9 S '42
New formulations of ethyl cellulose plastic designed to replace rubber. J. M. Crowe. Chem Ind 51:371 S '42
Plastic substitute material meets rubber specifications in waterproof fabrics; Saflex. Rubber Age 51:421 Ag '42; Same. India Rubber W 106:599 S '42
Producing a rubber-like synthetic; Resistoflex PVA. il Chem & Met Eng 49:80-1 Ap '42
Properties and uses of Resistoflex PVA, a rubber-like compound. H. E. Krebs. il Rubber Age 51:299-301 Jl '42
Resistoflex PVA supplements synthetic rubber supplies. E. S. Peierls. il India Rubber W 105:467-70 F '42
Soft, rubber-like plastics; cellulose derivatives compounded with chemical and oil plasticizers. D. R. Wiggam. Mod Plastics 19:50-1 Ag '42; Same. Rubber Age 51:381-2 Ag '42
Substitutes for rubber and silk; Colonial V plastics. E. Engel and J. Steel. Aero Digest 40:212, 214 My '42
Synthetic resin replaces industrial rubber; applications of Resistoflex. il(p1040-1) Chem & Eng N 20:1003 Ag 25 '42; Same cond. Mod Plastics 19:66-7+ Ag '42
Vinidur; synthetic material developed in Germany to replace rubber. India Rubber W 107:196+ N '42
Vinyl covering for instruments releases rubber. il Product Eng 13:633 N '42
Where plastic replaces rubber; fifteen widely varied applications at RCA. il Factory Management 100:106-7+ S '42

See also
Rubber, Artificial

RUBBER accelerators. See Vulcanization—Accelerators

RUBBER cement
Nitroparaffin derivatives in the compounding of rubber; use as heat sensitizer for latex and anti-gelling agent for rubber cements. Rubber Age 52:35-6 O '42
Nitroparaffins in the rubber industry. A. W. Campbell and J. W. Burns. India Rubber W 107:169-70 N '42
Supplementary order no. M-15-f restricting the use of rubber cements and adhesives. Rubber Age 51:404 Ag '42; Same. India Rubber W 106:603 S '42
What you can use; softeners for making rubber cements, etc. Oil Paint & Drug Rep 141:66 Je 29; 142:58 Jl 13 '42

RUBBER chemicals
Ambidex; a new activating plasticizer. Rubber Age 52:34 O '42
Glycerized liquid lubricant. Rubber Age 50:436 Mr '42
Naftolen as a plasticizer and extender for rubber in carbon black compounds. F. Rostler and V. Mehner. India Rubber W 105:473-7 F '42
Naftolen in carbon black compounds containing reclaim. F. Rostler and K. Rostler. India Rubber W 107:163-8 N '42
Nitroparaffin derivatives in the compounding of rubber; use as heat sensitizer for latex and anti-gelling agent for rubber cements. Rubber Age 52:35-6 O '42
Nitroparaffins and derivatives as heat sensitizers for rubber latices. A. W. Campbell. bibliog il Ind & Eng Chem 34:1106-7 S '42
Nitroparaffins in the rubber industry. A. W. Campbell and J. W. Burns. India Rubber W 107:169-70 N '42
Status of rubber chemicals; abstract. J. P. Coe. Chem & Met Eng 48:168-9 N '41
What you can use. Oil Paint & Drug Rep 142:62 Ag 17; 66 Ag 24; 62 Ag 31; 66 S 14; 61 S 21; 62 S 28; 44 O 12; 71 O 19; 56 O 26; 70 N 9; 74 N 16; 48 N 23; 55 N 30; 74 D 14 '42 (to be cont)

See also
Vulcanization—Accelerators

Prices

Compounding ingredients. Published in monthly numbers of India rubber world

Statistics

Rubber chemicals production, 1941. Oil Paint & Drug Rep 142:32 S 7 '42

RUBBER factories
Good housekeeping; case study in plant clean-up at the B. F. Goodrich company. il Factory Management 100:107-14 Je '42
Rubber companies, as converted. Sci Am 167:60 Ag '42

See also
Rubber—Manufacture
Tire factories
Tires, Automobile—Manufacture

RUBBER factories—*Continued*

Accidents

Accident rates in industry reported by National safety council. Rubber Age 51:515 S '42

Accounting

Better management for the rubber factory; working capital. A. Roberts. Rubber Age 50:275-8 Ja '42

Electric equipment

Capacitors alternated on night duty; Stedfast rubber company. il Elec W 116:1590 N 15 '41

Heavy driving; rubber mixing and milling installation. il Elec R (Lond) 131:291-4 S 4 '42

Hewitt Rubber installs metal-enclosed power equipment. il Rubber Age 50:354 F '42

Peak production requires motor preparedness. F. V. Faulhaber. India Rubber W 105:577 Mr '42

Reclaiming rubber. il Elec R (Lond) 130:551-4 My 1 '42

Rubber reclaiming; extensive use of dynamic braking. il Elec R (Lond) 131:77-8 Jl 17 '42

Employees

Jobs in Akron; union membership declining. Business Week p82-3+ Je 13 '42

U.S. Rubber case. Business Week p59 Ag 1 '42

Equipment

Fork truck effects economies in reclaimed rubber plant. il Rubber Age 52:38 O '42

New equipment. Published in monthly numbers of Rubber age

New machines and appliances. Published in monthly numbers of India rubber world

Obsolete rubber equipment adds to salvage campaign. il Rubber Age 51:513 S '42

See also
Rubber machinery

Management

Better management for the rubber factory. A. Roberts. Rubber Age 49:173-6, 406-8; 50:275-8 Je, S '41, Ja '42

RUBBER footwear. See Shoes, Rubber

RUBBER goods

Don't abuse rubber; how to prolong its life. W. S. Richardson. il Factory Management 100:89-96 F '42; Abstract. Steel 110:50-1+ Mr 30 '42

Flexible molds. S. Wein. il diags Metal Finishing 40:359-62 Jl '42

How to conserve, repair and store rubber safety aids. C. A. Coutts. Elec W 118:960 S 19 '42

Longer life for industrial rubber products. H. A. Everlien. il Paper Ind 24:145-9 My '42

New goods and specialties. Published in monthly numbers of India rubber world

New life-saving devices developed by rubber firms; parachute boat and life-saving suit. il Rubber Age 51:425 Ag '42

New reclaiming process aids war effort. il India Rubber W 107:186 N '42

Our goal for 1942: a million pounds of cardboard saved; Goodrich went to work on package styles, eliminated unnecessary carton sizes and models. L. Hostetler. il Factory Management 100:90-1+ My '42

Overall life-saving garment. il India Rubber W 107:54 O '42

Patch in time; linemen's protective equipment must be conserved; gloves, sleeves and blankets can be repaired. C. A. Coutts. il Nat Safety N 45:26-7+ My '42

Priorities on safety equipment as they concern the electric utilities; rubber protective equipment. T. R. Claffy. Edison Elec Inst Bul 10:96-7 Mr '42

Reconditioning rubber conveyor belts. diags Engineering 154:146 Ag 21 '42

Rubber component definition changed by revenue officials. Rubber Age 50:122 N '41

Rubber mouldings with felt cores. il Engineer 174:264 S 25 '42; Engineering 154:276 O 2 '42; Automobile Eng 32:396 O '42

Supplementary order no. M-15-b to restrict the use and sale of rubber; amendment no. 3. Rubber Age 50:357-9 F '42; Same. India Rubber W 105:484-6 F '42

See also

Elastic goods	Soles, Rubber
Hose	Tensylon
Printing plates, Rubber	Tires, Automobile
Rubberized fabrics	Tires, Rubber

Advertising

Ottawa eyes ads; warns of action to ban display or advertising of articles whose sale has been curbed. Business Week p38+ Ap 11 '42

Manufacture

Finishing hard rubber products with the Wetordry 3-M method. G. E. Winton. il Rubber Age 50:353-4 F '42

How one typical small business converted for total war; Kirkhill rubber co. T. K. Hill. Sales Management 50:20, 22 Ap 1 '42

Reclaim compounds with no crude rubber. H. C. Ghez. India Rubber W 106:142-5 My '42

Representative makers of industrial rubber products and rubber-like materials. Chem & Met Eng 49:99 S '42

See also
Tires, Automobile—Manufacture

Prices

Price formula for rubber products set, other regulations. Rubber Age 52:48-50 O '42

Storage

Preservation of tires and other rubber goods in storage. Consumers' Research Bul 9:10 Mr '42

Testing

Testing goods for the Tropics. India Rubber W 106:617-18 S '42

Testing thinwalled rubber goods; abstract. P. Kluckow. Chem & Met Eng 49:154 Mr '42

RUBBER goods, Mechanical

Advances in rubber and plastics during 1941 bibliog il Mech Eng 64:295-9 Ap '42; Same abr. Rubber Age 51:132-4 My '42

Designing mountings for rubber under shear; with data sheets. E. Latshaw. diags Machine Design 14:173-6 Ap; 85-6 My '42

Electronic tornado welds seam near rubber gland; construction of Airflex couplings. il Rubber Age 50:205 D '41

Flexible bearings, bushings and gears of rubber or neoprene. W. L. Nelson. diags Oil & Gas J 40:160 D 25 '41

Hydro-press forming with rubber platens. T. H. Hazlett and W. Schroeder. bibliog il diags Iron Age 149:41-6 Je 18 '42

Isolating machine vibration. il diags Power Pl Eng 46:56-8 Ja '42

Isolating vibration through use of rubber. W. C. Keys. diags Machine Design 14:77-81+ F '42; Same. Mech Eng 64:175-80 Mr '42; Abstract. India Rubber W 105:380 Ja '42; Discussion. E. T. P. Neubauer. Mech Eng 64:808 N '42

New process restores rubber typewriter rollers. il Rubber Age 51:490 S '42

Rubber bearing for rudder post. R. Wagner. diags Eng N 128:933 Je 4 '42

Rubber in shear; ellipse of component strains. E. Latshaw. diags India Rubber W 105:363-5 Ja '42

Rubber press tools for forming. Metals & Alloys 15:487+ Mr '42

Rubber; recent research in the automobile industries. Automobile Eng 32:15-18 Ja '42

Rubber suspension; the application of conical torsion disc units to cycles and motor cycles. C. Macbeth. il diags Automobile Eng 32:151-5, 195-8 Ap-My '42

RUBBER goods, Mechanical—*Continued*

Simplifying design of rubber mountings. C. W. Kosten and C. Zwikker. bibliog diags Machine Design 14:66-71 Ja '42

200 do's and don'ts that make rubber goods last longer. il Power 86:378-83 Je '42

Vibration control by means of flexible mountings. L. Wallerstein, jr. il diags Product Eng 13:62-7 F '42

Manufacture

Compounding Buna S synthetic rubber; summary on mechanical goods compounds. India Rubber W 106:572 S '42

Prices

Maximum price regulation no. 149 on mechanical rubber goods. Rubber Age 51:215-17 Je '42

RUBBER heels. See Heels, Rubber

RUBBER hose. See Hose

RUBBER hydrochloride. See Tensylon

RUBBER in plants. See Plants—Rubber content

RUBBER industry and trade

Effect of rubber shortage on oil. C. L. Burrill. Nat Pet N 34:16-18, 26 Ap 22 '42

Facts about our rubber situation. P. W. Drew. S A E J 50:sup15-17 My '42

Far East rubber imports are still continuing. Comm & Fin Chr 155:663 F 12 '42

Four additional crude rubber agreements concluded. Rubber Age 51:416-17 Ag '42

Net crude rubber supply by 1944 only 65,000 tons. Automotive & Aviation Ind 86:134 Mr 15 '42

New outlook for oils and rubbers. A. B. Wells. il Mag of Wall St 70:175-7+ My 30 '42

News by commodities. Published in Foreign commerce weekly

Northern tropical America as a source of rubber. S. S. Kogut. il map Aero Digest 41:147-8, 150+ Ag '42

Our rubber lifeline. J. R. Custer. il Automotive Ind 86:36-9+ Ja 15 '42

Pacific war closely affects rubber companies. Barron's 21:12 D 15 '41

Plan to triple production of synthetic rubber by '43. il Nat Pet N 34:20 Ja 7 '42

Rubber, a vital industry in war and post war period. Comm & Fin Chr 155:2032 My 28 '42

Rubber agreements are signed with Mexico and Panama. Rubber Age 52:52 O '42

Rubber and tin prospects. Economist 141:755-6 D 20 '41

Rubber situation; abstract. J. A. Martin. Can Chem & Process Ind 26:238 Ap '42

Rubber, today and tomorrow. G. W. Gray. il Tech R 44:441-3+ Jl '42

Rubber under control. Economist 141:605 N 15 '41

Source of our rubber. il map Manuf Rec 111:22-3+ Je '42

War and the rubber industry. P. Dobbs. il Mag of Wall St 69:250-2+ D 13 '41

What next for the rubbers? F. R. Walters. il Mag of Wall St 69:498-9+ F 7 '42

When can we make our own rubber? suggestions to help save rubber during the emergency. F. Barton. il Am Business 12:34-6, 42-3 F '42

See also

Rubber goods—Manufacture

Rubber latex

Tire industry and trade

Bibliography

Rubber industry and trade. (Business literature v 14, no 6) 2p Business branch, Newark public lib, Newark, N.J. F '42

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 22:18-19 My '42

Changed prospect for oils and rubbers. H. F. Travis. Mag of Wall St 70:638-9+ O 3 '42

Rubber concerns converted for war; five leading manufacturers have large business volume, but profits uncertain. J. A. McWethy. Barron's 22:7 My 11 '42

War and the rubber industry. P. Dobbs. il Mag of Wall St 69:250-2+ D 13 '41

History

As the record on rubber unfolds; chronological review. il Automotive & Aviation Ind 87:168-71+ O 1 '42

Regulation

Additional amendments to rubber orders. India Rubber W 106:252, 361+, 484-5+ Je-Ag '42

Amendment to designation of part 940 and amendment 11 to supplementary order no. M-15-b; correction no. 1; amendments to other orders. India Rubber W 106:603-14 S '42

Amendments 14, 15 and 16 to supplementary order M-15-b-1. India Rubber W 107:191-4 N '42

Amendments to order no. M-15-b-1; other amendments and additions. Rubber Age 51:389-400, 403, 414-16, 523-7 Ag-S '42

Amendments to supplementary order no. M-15-b, to restrict the use and sale of rubber. India Rubber W 106:51-3, 147-8 Ap-My '42; Same. Rubber Age 50:445-6; 51:37-40 Mr-Ap '42

Amendments to supplementary order no. M-15-b-1 to restrict the use and sale of rubber. India Rubber W 106:49-50, 83, 146 Ap-My '42; Same. Rubber Age 51:40-3 Ap '42

Chlorinated-rubber stocks frozen. For Comm W 6:23 Mr 14 '42

Congress seeks more voice in Nation's rubber program. Nat Pet N 34:20 Je 24 '42

Conservation order M-119; restrictions on rubber sealed closures for glass containers. India Rubber W 106:149-50 My '42

Jeffers' handicap; railroader in rubber czar post. Business Week p18 S 26 '42

Jeffers, rubber director. India Rubber W 107:57 O '42

Latest orders on conservation of rubber include specifications for many products. Rubber Age 50:448-51 Mr '42

Maximum price regulation no. 149 on mechanical rubber goods. Rubber Age 51:215-18 Je '42

Nelson names rubber czar; Arthur B. Newhall. Nat Pet N 34:12 Ap 8 '42

Newhall is named coordinator for rubber; scrap and reclaim now under restriction. Rubber Age 51:45-8 Ap '42; India Rubber W 106:161-4 My '42

No radical changes seen in 1942 allocation program. Rubber Age 50:123 N '41

Production of civilian rubber products cut 80% in drastic curtailment order. Rubber Age 50:280, 283-4 Ja '42

Rationing of rubber starts January 4. Comm & Fin Chr 155:29 Ja 1 '42

Rationing programs are based on long studies of war needs. S A E J 50:sup20+ Mr '42

Regulations on the sale and purchase of crude rubber, normal or concentrated latex, deproteinized rubber and sprayed rubber. Rubber Age 50:442-5 Mr '42

Report on Baruch. Fortune 26:98-9+ N '42

Revised price schedule no. 87, scrap rubber. Rubber Age 51:305-8 Jl '42

Rubber director Jeffers takes control; names Col. Bradley Dewey as his deputy. Rubber Age 52:47-8 O '42

Rubber, for some; quotas for essential civilian uses listed. Business Week p22+ Ja 31 '42

Rubber placed under strict allocation; other official orders. Rubber Age 51:500-1 S '42

Rubber reserve co. circulars. India Rubber W 106:253-5, 362-4 Je-Jl '42

Scrap and reclaim rationed; rubber goods specifications revised; other WPB orders. India Rubber W 106:63-4 Ap '42

Strict allocations for wire and cable rubber. Elec W News ed 117:571 F 14 '42

Supplementary order M-15-b, as amended. Rubber Age 51:527-41 S '42; Same. India Rubber W 107:68-79 O '42

RUBBER industry and trade—Regulation— *Continued*

Supplementary order no. M-15-b to restrict the use and sale of rubber; amendment no. 3. Rubber Age 50:357-9 F '42; Same. India Rubber W 105:484-6 F '42

Supplementary order no. M-15-B to restrict the use of rubber. India Rubber W 105:376-8 Ja '42; Same. Rubber Age 50:265-7 Ja '42

Supplementary order no. M-15-b-1 to restrict the use of rubber. India Rubber W 105:578-80+ Mr '42; Same. Rubber Age 50:437-42 Mr '42

WPB news. India Rubber W 106:592-4 S '42

Statistics

Axis blocks 97 percent of rubber sources; with table giving world production in 1940 by region of origin. For Comm W 7:24 Je 13 '42

Reclamation urged as relief from rubber shortage; with statistical data. Oil & Gas J 40:11 Ja 22 '42

Rubber situation; abstract. J. Jones. India Rubber W 105:597 Mr '42

Rubber: where we really stand. Business Week p15-17 Je 20 '42

Statistics of the industry. Published in monthly numbers of Rubber age

United States statistics. Published in monthly numbers of India rubber world

Africa

Africa as a source of rubber. India Rubber W 106:620-1 S '42

Bolivia

Bolivian rubber. Economist 143:389 S 26 '42

U.S.-Bolivia rubber pact. Comm & Fin Chr 156:288 Jl 23 '42

Brazil

Brazil; figures for 1940. India Rubber W 105:401-2 Ja '42

Brazil-U.S. rubber deal. Comm & Fin Chr 155:1861 My 14 '42

New bank for financing rubber. For Comm W 8:12 Ag 1 '42

Canada

Process industries of the Hamilton area. W. H. Pitcher and G. L. White. il Can Chem & Process Ind 26:258-61 My '42

Costa Rica

Costa Rica's resources to be developed. For Comm W 8:32 Jl 11 '42

To buy Costa Rica rubber. Comm & Fin Chr 156:26 Jl 2 '42

Cuba

New tennis shoe factory at Matanzas. For Comm W 5:39 N 15 '41

Ecuador

News by commodities. For Comm W 6:19 Mr 7 '42

U.S.-Ecuador rubber pact. Comm & Fin Chr 156:279 Jl 23 '42

Europe

Rubber industry in Europe. Published in monthly numbers of India rubber world

Far East

Rubber industry in Far East. Published in monthly numbers of India rubber world

Great Britain

British synthetic rubber industry? India Rubber W 107:82+ O '42

Control of rubber. Economist 142:35-6 Ja 10 '42

Rubber and tin export quotas. Economist 141:690-1 D 6 '41

Rubber crisis. Economist 142:139-40 Ja 31 '42

Rubber in 1941. Economist 142:sup24 Mr 14 '42

United Sua Betong rubber estates, limited, 33d annual general meeting, London. Economist 143:217-18 Ag 15 '42

See also
Dunlop rubber company

Haiti

Rubber production in Haiti. Science 95:sup10 My 15 '42

Japan

Is Japan rubber-poor? what are Japs going to do with rubber production they now command? W. N. Small. il For Comm W 8:9+ Jl 25 '42

Latin America

Colombia, Bolivia, and Ecuador sign rubber agreements with U.S. India Rubber W 106:483 Ag '42

Continued progress reported in crude rubber developments. Rubber Age 51:317-19 Jl '42

Cultivation of crude rubber proceeds in Latin American countries. Rubber Age 50:365-6 F '42

Hevea rubber culture in Latin America. R. D. Rands. bibliog il India Rubber W 106:239-43, 350-6, 461-5 Je-Ag '42

Looking to Latin America for rubber. E. L. Warner, jr. il map Automotive & Aviation Ind 86:32-6+ Ap 1 '42

Mexico

Guayule production in Mexico; pictorial presentation. Rubber Age 51:491-3 S '42

Mexico's rubber; development of Castilloa output, now largely dormant in lost groves. Business Week p42 Ap 11 '42

Nigeria

8,000,000 pounds from Nigeria in 1942. For Comm W 7:27 My 30 '42

South Africa

South Africa studies resources. For Comm W 8:26-7 Ag 29 '42

South America

Rubber boom starts borracha tappers into Amazon jungles. For Comm W 9:11 O 3 '42

Tools for natural-rubber projects. il For Comm W 8:9+ Jl 4 '42

Tanganyika territory

Tanganyika's rubber production. For Comm W 9:27 O 17 '42

United States

Civilians must get tires, Baruch report emphasizes; with text of report. Nat Pet N 34:5, 21-2+ S 16 '42

Current developments in specific branches of the rubber industry. Rubber Age 50:284-8 Ja '42

Developments in the field of commodities; cutting down civilian consumption. Barron's 22:6 Ja 5 '42

Dun & Bradstreet report on rubber products shortages. Rubber Age 51:424 Ag '42

Has Roosevelt's order and appointment increased the rubber problem? Nat Pet N 34:11-12 S 23 '42

How does America stand on rubber today; abstract. P. W. Litchfield. Bankers M 144:176-7 F '42

Natural and synthetic rubber, 1941. Chem & Met Eng 49:89-90 F '42

Our rubber problem; what can be done to stretch our rubber supply? il For Comm W 6:7+ Ja 17 '42

Reclaim is ready. W. F. Tuley. flow chart il India Rubber W 105:371-5 Ja '42

Report of the Senate's Truman committee features month of activity on situation. Rubber Age 51:220-2 Je '42

Rubber checkup; stockpile setback. Business Week p62-3 N 22 '41

Rubber for tires; today's lesson in foreign trade. C. R. Bryan. il For Comm W 6:6-7 F 14 '42

Rubber; future supplies, consumption, rationing. Survey of Cur Business 22:7-9 Ja '42

Rubber: how do we stand? map Fortune 25:92-6+ Je '42

Rubber industry in United States. Published in monthly numbers of India rubber world

Rubber shortage is getting more acute. Barron's 22:12 Mr 9 '42

RUBBER industry and trade—United States—*Continued*

Rubber situation clarified. A. H. Allen. Steel 111:63-4 Jl 6 '42

Rubber situation clarified by committee disclosures. H. D. Ralph. Oil & Gas J 41:12-14 Jl 23 '42

Rubber stockpile increased since attack on Pearl Harbor. Barron's 22:6 F 9 '42

Rubber supplies and needs. L. Henderson. India Rubber W 106:45+ Ap '42

Rubber, the big question. G. T. Montgomery. il Transit J 86:315-17 S '42

Squeezing rubber. Business Week p54 D 20 '41

Trend in rubber industry; abstract. E. G. Holt. Rubber Age 51:146 My '42

Truman group makes report on rubber supply; blames government for lack of preparedness. Nat Pet N 34:5-6 My 27 '42

What if our supply of natural rubber is cut off? W. T. Ziegenhain. il Oil & Gas J 40:17+ Ja 8 '42

See also

United States rubber company

RUBBER latex

Accelerators for latex: water-soluble vs water-insoluble. H. H. Abernathy. Rubber Age 50:195-8 D '41

Conservation of rubber latex. R. O. Babbit. India Rubber W 105:369-70 Ja '42

Crude rubber and latex no longer available for many civilian goods. India Rubber W 105:495 F '42

Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42

New method for extending the volume of latex. P. M. Fleuriel. Rubber Age 51:32-4 Ap '42

Nitroparaffin derivatives in the compounding of rubber; use as heat sensitizer for latex and anti-gelling agent for rubber cements. Rubber Age 52:35-6 O '42

Nitroparaffins and derivatives as heat sensitizers for rubber latices. A. W. Campbell. bibliog il Ind & Eng Chem 34:1106-7 S '42

Preparing latex from guayule; patent. India Rubber W 106:247 Je '42

Replacements for latex in fiber products manufacture. R. T. Nazzaro. India Rubber W 106:345-6+ Jl '42

Rubber dispersions. R. E. Nelson. Rubber Age 50:114-16 N '41

Rubber latex in wartime; abstract. M. C. Teague. Science 95:sup12 Ap 3 '42

Synthetic resin emulsions for paper saturation and sizing; used as extenders for rubber latex and reclaim. R. T. Nazzaro. Paper Tr J 115:29-32 N 5 '42

Tri-Clover centrifugal pump for latex. il Rubber Age 51:74 Ap '42

Patents

See Rubber—Patents

RUBBER lifeboats. See Lifeboats, Rubber

RUBBER liner fabrics

Processed liners, their use and advantages in a war economy. E. C. Pope. Rubber Age 51:135-6 My '42

RUBBER lining

Care of rubber lined tanks. H. C. Klein. Chem Ind 50:353 Mr '42

Don't abuse rubber; how to prolong its life. W. S. Richardson. Factory Management 100:96 F '42

How to conserve rubber equipment. O. S. True. il Chem & Met Eng 49:88-9 Mr '42

RUBBER machinery

Electric drives for continuous processing machinery. J. Z. Linsenmeyer. il diags India Rubber W 106:359-60 Jl '42

New machines and appliances. Published in monthly numbers of India rubber world

Nickel alloy permits quick repair of bearings on rubber machinery. H. M. Donepp. il diag Rubber Age 51:129-31 My '42

Silent steel gear extends drive life; Stowe-Woodward hard rubber dust grinder. J. A. Clark. diag Machine Design 14:156+ Ap '42

RUBBER mats

Don't abuse rubber; how to prolong its life. W. S. Richardson. Factory Management 100:96 F '42

RUBBER paint. See Paint materials

RUBBER patents. See Rubber—Patents; Rubber, Artificial—Patents

RUBBER plants and planting

American rubber from American farms; abstract. P. J. Kolachov. India Rubber W 105:368 Ja '42

Castilloa rubber from Central America aids war effort. For Comm W 7:28 My 16 '42

Cultivation of crude rubber proceeds in Latin American countries. Rubber Age 50:365-6 F '42

Domestic rubber plant investigation launched by United States rubber co. il Rubber Age 51:213-14 Je '42

Growing rubber in North America. H. L. Trumbull. bibliog il Ind & Eng Chem 34:1328-35 N '42

Guayule rubber; other proposed sources. F. Thone. Science 95:sup9 Ja 23 '42

Hevea rubber culture in Latin America. R. D. Rands. bibliog il India Rubber W 106:239-43, 350-6, 461-5 Je-Ag '42

Hevea's rivals. il Business Week p17-18 F 28 '42

Investigations on the chemical, physical, and mechanical properties of Kok-sagyz. India Rubber W 105:504 F '42

Landolphia; a South African rubber source. Chem Age (Lond) 47:364 O 24 '42

Latin-American countries step up efforts to tap wild rubber resources. Rubber Age 51:52+ Ap '42

Looking to Latin America for rubber. E. L. Warner, jr. il map Automotive & Aviation Ind 86:32-6+ Ap 1 '42

Mexico's rubber; development of Castilloa output, now largely dormant in lost groves. Business Week p42 Ap 11 '42

Minor emergency sources of natural rubber in the United States. India Rubber W 106:250-1 Je '42

Northern tropical America as a source of rubber. S. S. Kogut. il map Aero Digest 41:147-8, 150+ Ag '42

Progress is reported in guayule, Kok-sagyz and other rubbers. Rubber Age 51:229-30 Je '42

Rubber cultivation pushed in Congress; with list of commercial rubber plants. Oil Paint & Drug Rep 141:5+ F 23 '42

Rubber facts that don't stretch; survey of minor emergency sources of natural rubber in the United States. il Sci Am 166:276-7 Je '42

Rubber production in Haiti. Science 95:sup10 My 15 '42

Split hevea seedlings. Science 96:sup8 Ag 14 '42

Tapping rubber vines in South Africa; landolphia vines and euphorbia tirucalli tree. Engineer 174:136 Ag 14 '42

Tau-sagyz, or mountain gum plant discovered in Russia; Kok-sagyz and other Russian plants. Iron Age 149:74+ Ap 2 '42

United States rubber co. establishes experimental rubber plantation. India Rubber W 106:274 Je '42

Wild rubber on wastelands in the West; rabbit brush; abstract. T. H. Goodspeed. Science 95:sup6 Ja 30 '42

Wild rubber survey in South and Central America. India Rubber W 105:597 Mr '42

Work done on rubber at the Cultuurtuin (Culture garden) Buitenzorg. P. J. S. Cramer. India Rubber W 106:285-6 Je '42

See also

Guayule

Plants—Rubber content

Bibliography

Rubber producing plants, other than guayule and rubber trees. M. E. Paddick. 9p Colorado state college lib, Fort Collins, Colo. '42

RUBBER plates. See Printing plates, Rubber

RUBBER printing plates. See Printing plates, Rubber

RUBBER reclamation. See Rubber waste

RUBBER research

- Accelerators for latex: water-soluble vs water-insoluble. H. H. Abernathy. Rubber Age 50:195-8 D '41
- Central organization for fundamental research on rubber proposed. A. T. McPherson. India Rubber W 105:255-8 D '41
- Cold vulcanization of rubber under stress. A. W. Beucker. il diag India Rubber W 105:259-63 D '41
- Colloidal carbon as revealed by the electron microscope. W. B. Wiegand and W. A. Ladd. il Rubber Age 50:431-6 Mr '42
- Curing rate of rubber; effect of phosphate buffer mixtures on rate of cure of crepe rubber. E. B. Newton. bibliog Ind & Eng Chem 34:374-8 Mr '42
- Effect of reinforcing pigments on rubber hydrocarbon. F. S. Thornhill and W. R. Smith. bibliog il Ind & Eng Chem 34:218-24 F '42
- Evaluation of the buffer capacity of crude rubbers. E. B. Newton and E. A. Willson. Ind & Eng Chem 34:378-82 Mr '42
- Frictional properties of rubber. F. L. Roth, R. L. Driscoll and W. L. Holt. bibliog pl diags J Research Nat Bur Stand 28:439-62 Ap '42
- Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:29-30+ Ja 10 '42
- Investigations on the chemical, physical, and mechanical properties of Kok-sagyz. India Rubber W 105:504 F '42
- Light and accelerated light aging of rubber, synthetic rubber, and rubber substitutes. T. A. Werkenthin and others. il Rubber Age 50:103-8 N; 199-202 D '41
- Mellon institute reports results of investigations. Rubber Age 51:65 Ap '42
- Motion picture study of balata and hevea latices with observations on Buna S and neoprene latices. F. F. Lucas. il Ind & Eng Chem 34:1371-81 N '42
- New uses for rubber; abstract. E. W. Stein. S A E J 50:124 Mr '42
- Rubber; recent research in the automobile industries. Automobile Eng 32:15-18 Ja '42
- Study of carbon blacks in natural and synthetic rubbers. I. Drogin. India Rubber W 106:561-9; 107:42-9, 272-7 S-O, D '42; Abstract. Rubber Age 51:483-8 S '42
- Tensile testing of rubber compounds at high temperatures. R. Thorndike. il Rubber Age 50:345-52 F '42
- Thermal decomposition of natural and synthetic rubber stocks. I. B. Prettyman. bibliog diag Ind & Eng Chem 34:1294-8 N '42
- Work done on rubber at the Cultuurtuin (Culture garden) Buitenzorg. P. J. S. Cramer. India Rubber W 106:285-6 Je '42

RUBBER reserve company

- Rubber reserve co. circulars. India Rubber W 106:253-5, 362-4 Je-Jl '42

RUBBER shoes. See Shoes, Rubber

RUBBER soles. See Soles, Rubber

RUBBER stamps

- 3 = 7; saving tellers' time by use of special rubber stamps. L. K. Hofmann. il Am Inst Banking Bul 24:19 Ap '42

RUBBER stoppers. See Stoppers

RUBBER tapping

- Tools for natural-rubber projects. il For Comm W 8:9+ Jl 4 '42

RUBBER thread

- It stretches; synthetic rubber thread for military uses. W. S. Richardson. il Sci Am 167:30 Jl '42

RUBBER tires. See Tires, Rubber

RUBBER tubes. See Tubes, Rubber

RUBBER waste

- Bishoprocess for the reclaiming of rubber. Rubber Age 50:116 N '41
- Chemical reclaim process announced by Boston woven hose & rubber co. Rubber Age 52:57 O '42
- Compounding Buna S synthetic rubber; summary on Buna S and whole tire reclaim combinations. India Rubber W 107:39-41 O '42
- Domestic rubber plantations; scrap rubber reclaimed. A. P. Peck. il Sci Am 167:105-7 S '42
- Final report made on nation-wide scrap rubber drive. Rubber Age 51:417 Ag '42
- FDR calls on people to turn in old rubber. Comm & Fin Chr 155:2312-13 Je 18 '42
- General principles of compounding with reclaim. P. M. Elliott. il Rubber Age 51:35-6 Ap '42
- Improved Black Rock debeading equipment. il India Rubber W 106:276 Je '42; Rubber Age 51:240+ Je '42
- Increasing use of reclaimed rubber. Chem & Met Eng 49:144 Ja '42
- Map big scrap rubber drive; success may spike rationing. Nat Pet N 34:3 Je 10 '42
- Naftolen in carbon black compounds containing reclaim. F. Rostler and K. Rostler. India Rubber W 107:163-8 N '42
- Nation-wide collection of scrap launched by President Roosevelt. Rubber Age 51:226+ Je '42
- N.F.P.A. criticises fire hazard in scrap rubber piles; W.P.B. answers. Nat Underw 46:7 S 10 '42
- Natural aging of reclaimed rubber. H. F. Palmer and R. H. Crossley. bibliog Ind & Eng Chem 34:1367-70 N '42
- Nervastral rubber reclaiming processes. Rubber Age 50:359 F '42
- Neutralizing the odor of reclaimed rubber. Rubber Age 51:43 Ap '42
- New price ceiling covers scrap rubber of all kinds; scrap rubber against agents named. Rubber Age 51:319-20 Jl '42
- New reclaiming process aids war effort. il India Rubber W 107:186 N '42
- Oil collects 454,155 tons of rubber in scrap drive. Nat Pet N 34:6 Jl 22 '42; Comm & Fin Chr 156:383 Jl 30 '42
- Oil goes all out on scrap rubber campaign. il Nat Pet N 34:3-6 Je 17 '42
- P.I.W.C. proposes program to keep cars on the road; 3-point program for increasing flow of scrap rubber to reclamation plants. Nat Pet N 34:22+ Je 10 '42
- Reclaim compounds with no crude rubber. H. C. Ghez. India Rubber W 106:142-5 My '42
- Reclaim is ready. W. F. Tuley. flow chart il India Rubber W 105:371-5 Ja '42
- Reclaim rubber for aircraft. S. S. Kogut. il Aviation 41:122-3+ Ag '42
- Reclaimed rubber. G. K. Trimble. flow sheet il J Chem Educ 19:420-7 S '42
- Reclaimed rubber status. P. M. Elliott. Chem & Eng N 20:473 Ap 10 '42
- Reclaiming rubber. il Elec R (Lond) 130: 551-4 My 1 '42
- Reclaims and reclaiming. P. M. Elliott. il Chem & Eng N 20:1223-5, 1252-3 O 10 '42
- Rubber drive already nets 334,293 tons. Nat Pet N 34:3+ Jl 8 '42
- Rubber reclaiming; extensive use of dynamic braking. il Elec R (Lond) 131:77-8 Jl 17 '42
- Rubber recycling plan is proposed as tire solution; scrap certificates to be exchanged for recaps. J. E. Pogue. Oil & Gas J 41: 67 Je 25 '42
- Rubber's prime substitute, reclaim. H. O. Ghez. India Rubber W 105:378 Ja '42
- Salvages rubber with bending-roll machine. il Power 86:809-10 N '42
- Salvaging cable insulation rubber. il Elec W 118:949 S 19 '42
- Scrap rubber drive extended 10 days. il Nat Pet N 34:3, 11 Jl 1 '42
- Scrap-rubber drive supported by all branches of industry; conservation bureau puts full weight behind plan; oil companies and public officials urged to aid. Oil & Gas J 41: 20-3 Je 18 '42
- Scrap rubber figures hidden by censorship. Nat Pet N 34:3, 6 Je 24 '42
- Scrap-rubber figures show much reclaim outstanding. H. S. Norman. il Oil & Gas J 41:12-13 Jl 9 '42
- Scrap-rubber salvage. J. P. Coe. Mech Eng 64:459 Je '42

RUBBER waste—*Continued*
Scrap rubber's place in the war economy. il Manuf Rec 111:30-1 Ag '42
Speed in reclamation. Business Week p62 Je 13 '42
Stimulation of scrap-rubber collection fits PIWC plan. Oil & Gas J 41:26-7 Je 11 '42
Survey shows little scrap rubber available. Comm & Fin Chr 155:2212 Je 11 '42
Symposium on reclaimed rubber. India Rubber W 106:618-19 S '42
Synthetic resin emulsions for paper saturation and sizing; used as extenders for rubber latex and reclaim. R. T. Nazzaro. Paper Tr J 115:29-32 N 5 '42
Thar's rubber in them thar sewers; recovering rubber from Akron sewage. Water Works & Sewerage 89:425 O '42
Timken converts standard bending roll machine for use in rubber salvage. il Blast F & Steel Pl 30:996 S '42
United States Rubber has new reclaiming method. Chem & Met Eng 49:117 Je '42

Prices

Office of price administration sets ceiling prices on scrap rubber. Rubber Age 50:367 F '42
Price schedule no. 56, reclaimed rubber. L. Henderson. India Rubber W 105:390 Ja '42; Same. Rubber Age 50:268-9 Ja '42
Revised price schedule no. 87, scrap rubber. Rubber Age 51:305-8 Jl '42

RUBBER yarn
Fixing hosiery machines; circular machines; St Pierre method of incorporating rubber yarn. J. W. Hughes. diags Textile World 92:110 Mr '42

RUBBERIZED fabrics
Army's rubber floats save truck space. il diags Product Eng 13:624-5 N '42
Make rubber belts last longer. P. D. Suloff. il Factory Management 99:93-4 D '41; 100:114-15 Ja '42
Rubber in textiles. Textile Col 64:43-6 Ja '42
Rubberized cotton fabric balloons used in construction of defense homes; used as forms for concrete; Falls Church defense homes project. il Rubber Age 50:189-90 D '41; Same cond. Concrete 50:8 Ap '42

RUBBERS. See Shoes, Rubber

RUBBLE construction. See Stone construction

RUBELLA
Transmission of rubella to Macacus mulatta monkeys. K. Habel. bibliog Pub Health Rep 57:1126-39 Jl 31 '42

RUBEROID company
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:645 O 3 '42
Growth stocks and the investor. E. N. Chapman. Barron's 22:13 F 2 '42

RUBIDIUM
Beta-ray spectra of arsenic, rubidium, and krypton. G. L. Weil. bibliog diag Phys R 62:229-37 S 1 '42
β-ray spectra of rubidium^{86}, strontium^{89}, eka-tantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42
Investigation of the scattering of positive alkali ions at an angle of 90° in mercury vapor. Sister John Baptist Macelwane. diag Phys R 60:762-5 D 1 '41
Theoretical half-lives of forbidden β-transitions; RaE, P^{32}, K^{40}, and Rb^{87}. E. Greuling. bibliog Phys R 61:568-77 My 1 '42

RUBIDIUM fluogermanate
Structures of complex fluorides; rubidium hexafluogermanate. W. B. Vincent and J. L. Hoard. Am Chem Soc J 64:1233-4 My '42

RUBIDIUM sulfate
Activity coefficients of rubidium and cesium sulfates in aqueous solution at 25°. H. H. Cudd and W. A. Felsing. Am Chem Soc J 64:550-1 Mr '42

RUBY
Polarization of luminescence in crystals. B. V. Thosar. bibliog J Chem Phys 10:246-7 Ap '42

RUBY mountains, Nevada
Stratigraphy and structure of the southern Ruby mountains. R. P. Sharp. fold chart maps Geol Soc Bul 53:647-90, pl 1-5 bibliog(p688-90) My '42

RUDDERS
Boring the large tapered hole in ship rudders. il Mach 48:152-3 F '42
Rubber bearing for rudder post. R. Wagner. diags Eng N 128:933 Je 4 '42

RUFF, Otto, 1871-1939
Otto Ruff. R. E. Oesper. por(front) J Chem Educ 19:496 O '42

RUGS
Ecuadoran rug-weaving industry. For Comm W 6:19 Mr 7 '42
Ecuadoran rugs win wider markets. S. M. Hogarty. il For Comm W 8:9 S 19 '42
Navajo rugs. F. Kutnewsky and C. Holbrook. il Comp Air M 47:6658-62 F '42
Navajo rugs hold unique place in American handicraft industry. F. Kutnewsky. il Rayon 23:31-2 Ja '42
Rare hooked rugs, and others, both antique and modern, from coöperative sources. W. W. Kent. 227p $6.50 Pond-Ekberg co, Springfield, Mass. '41
Rug and carpet industry moves to convert. For Comm W 6:23 Mr 14 '42

RUGS, Cotton
Rugs of cotton. Business Week p72 Jl 25 '42

RUHR valley

See also
World war, 1939—
Ruhr valley

RUM
Fusel oil in rums. Chem Ind 50:53 Ja '42
Rum deal; Ickes and Gov. Tugwell get restriction lifted. Business Week p40-1 F 14 '42

RUMANIA

See also
Petroleum industry
and trade—Rumania

Economic conditions

Discontent in Roumania. Economist 141:564 N 8 '41

RUN-OFF
Early contributions to Mississippi River hydrology. C. S. Jarvis. Am Soc C E Proc 68:421-44 Mr '42; Discussion. 68:1232-6, 1670-4 S, N '42
Surface runoff determination from rainfall without using coefficients. W. W. Horner and S. W. Jens. diags Am Soc C E Proc 67:533-68 Ap '41; Discussion. 67:1180-2, 1469-89, 1925-32; 68:280-4 Je, O, D '41, F '42

See also
Drainage
Rain and rainfall
Stream flow

RUNWAYS, Airport. See Airports—Runways

RURAL electrification. See Electric service, Rural; Electricity on the farm

RURAL electrification administration
Meter failures guide REA to correctives. F. B. Scott. il maps Elec W 118:1086-7 O 3 '42
REA gets copper to finish pending projects. Elec W News ed 116:1779 D 6 '41
REA wins fight to serve aluminum plant. Elec W News ed 116:1966 D 20 '41
Rural electrification in the United States. B. Stewart. Edison Elec Inst Bul 9:463-6+ N '41
Statistics of REA-financed systems. Elec W 117:288 Ja 24 '42
Union push in REA. Business Week p60 Ja 24 '42
WPB halts work on unfinished REA projects. Elec W 118:459 Ag 8 '42
Western REA systems; tabulation. Elec West 88:46-7 F '42

RURAL schools

See also
Consolidated schools

RURAL sociology. See Sociology, Rural

RURAL workers
See also
Farm labor

RUSSELL, Sir Edward John, 1872-
Messel lecture. Chem & Ind 61:317-18 Jl 25 '42
Messel medal to Sir John Russell. por Chem Age (Lond) 47:52 Jl 18 '42
Sir John Russell. Chem & Ind 61:284 Je 27 '42

RUSSELL, Joseph W. 1875-
Retires as Ætna vice-president. por(p919) Weekly Underw 147:912+ O 17 '42

RUSSELL-SAUNDERS coupling
Degeneracies among terms of a configuration of equivalent electrons. O. Laporte and J. R. Platt. Phys R 61:305-8 Mr 1 '42
Term formulae for the configuration d^5. O. Laporte. bibliog Phys R 61:302-4 Mr 1 '42

RUSSIA
Kremlin and the people. W. Duranty. 222p $2 Reynal & Hitchcock, New York '41
Russia in flux, before October. J. Maynard. 301p bibliog(p286-7) $5 Ryerson press '41
Soviet experiment. H. Best. 120p $1.25 Richard R. Smith, New York '41
Soviet Russia; an introduction. K. Gibberd. 77p bibliog(p76-7) 75c Oxford '42
Truth about Soviet Russia. S. Webb and B. Webb. 128p $1.50 Longmans '42
See also
Aeronautics, Military—Russia
Agriculture—Russia
Coal supply—Russia
Engineering—Russia
Ethnology—Russia
Petroleum supply—Russia
Science—Russia
Steel industry and trade—Russia
Transportation—Russia
World war, 1939—Russia

Army

Russia's fighting forces. S. N. Kournakoff. 258p $2.50 Duell, Sloan & Pearce, New York '42

Bibliography

Books available in English by Russians and on Russia published in the United States. N. N. Martianoff, ed. 48p pa 50c Nicholas N. Martianoff, 1326 Madison av, New York '42
Russia; a select reading list. 26p Public libraries, Bristol, Eng. '42

Economic conditions

Soviet economy and the war. M. Dobb. 88p 3s Routledge '41
USSR in 1941. Economist 142:sup10-11 Mr 14 '42

Economic policy

Russia's economic front for war and peace; an appraisal of the three five-year plans. A. Yugow. 279p $3 Harper '42

Foreign relations

Aftermath of the Anglo-Soviet treaty and of the Soviet-American agreement. Economist 142:865 Je 20 '42
Litvinov, he capitalizes a failure. Business Week p28 N 15 '41
Russia and the world. Economist 142:883-4 Je 27 '42
Russia at war; Pan-Slav conference. Economist 142:542 Ap 18 '42

Austria

Wavering friendship: Russia and Austria, 1876-1878. G. H. Rupp. 599p bibliog(p551-72) $5 Harvard univ. press '41

Baltic states

Soviet Union and the Baltic states. K. R. Pusta. 53p 80c John Felsberg, 80 4th Av, New York '42

Germany

Duel for Europe; Stalin versus Hitler. J. Scott. 381p $3.50 Houghton '42

Great Britain

Britain and Russia sign 20-year alliance treaty. Comm & Fin Chr 155:2399 Je 25 '42
Treaty with Russia. Economist 142:815-16 Je 13 '42

Japan

Far Eastern neutrality. Economist 142:716-17 My 23 '42
Russia and Japan. M. Hindus. 254p $2 Doubleday '42

Poland

Poland and Russia. Economist 141:718-19 D 13 '41

Turkey

Russia and Turkey. Economist 143:8 Jl 4 '42

United States

Litvinoff expresses gratitude for U.S. aid. Comm & Fin Chr 154:1557 D 18 '41
Mission to Moscow. J. E. Davies. 659p $3 Simon & Schuster '41
We're in this with Russia. W. Carroll. 264p $2 Houghton '42
See also
World war, 1939—
United States—Aid to Russia

Industries and resources

Behind the Urals; an American worker in Russia's city of steel. J. Scott. 279p $2.75 Houghton '42
Evacuated industries. Economist 142:360 Mr 14 '42
Industrial prize of the Ukraine; can be important factor in export steel markets. P. Loboff. map Barron's 21:3 N 17 '41
Industrial research in foreign countries during 1941. W. A. Hamor. il Chem & Eng N 20:100-2 Ja 25 '42
Russia's resources. map Economist 141:620 N 22 '41
Soviet industries in the Urals. E. C. Ropes. il For Comm W 7:6-11+ My 23 '42
Soviet labour and industry. L. E. Hubbard. 314p 15s Macmillan '42
Soviets' answer. E. C. Ropes. For Comm W 6:4-5, 31 Ja 31 '42
Stalin's Ural stronghold; industries deep in Russia. J. Scott. map Barron's 22:9 Ja 5 '42

Maps

Atlas of the U.S.S.R. J. H. Stembridge. 16 maps pa 10c Oxford '42

Social conditions

Soviet Russia, anatomy of a social history. E. Strauss. 342p bibliog(p331-8) $4 Nelson (Toronto) '41

RUSSIAN language

Study and teaching

Language schools get run on Spanish, Russian, Portuguese. Ptr Ink 199:18 Ap 3 '42

RUST. See Corrosion and anti-corrosives

RUSTLESS iron and steel corporation
Annual report. Comm & Fin Chr 155:1518 Ap 13 '42
Behind latest earnings reports. H. Lawrence. Barron's 22:13 N 2 '42

RUTABAGAS. See Turnips, Dried

RUTGERS university
Rutgers university. H. E. Orford. il J Eng Educ 32:715-17 My '42

RUTHENIUM compounds
Ruthenium dipyridyl, a new oxidimetric indicator. J. Steigman, N. Birnbaum and S. M. Edmonds. Ind & Eng Chem Anal ed 14:30 Ja 15 '42

RUTHERFORD, James E. 1895-
New executive head, National Life Underwriters. por East Underw 43:1+ Jl 24 '42; Nat Underw (Life ed) 46:1+ Jl 24 '42; Weekly Underw 147:165+ Jl 25 '42

RUTHERFORD, New Jersey

Sewerage

Advantages of careful programming of sludge transfer. A. B. Kozma. il diag plan Water Works & Sewerage 89:363-5 Ag '42

RUTILE
Improved ceramic dielectric materials. M. D. Rigterink. bibliog il R Sci Instr 12:527-34 N '41
See also
Titanium oxides

RUTLAND railroad
Reorganization plan. Comm & Fin Chr 156: 788 Ag 31 '42

RYAN aeronautical company
Ryan celebrates 20th anniversary. il diag Aero Digest 41:244, 249, 251-2 S '42
Ryan celebrates 20th birthday. il Aviation 41:104-5+ S '42

RYDBERG constant
Rydberg corrections for *D*-terms in He I. L. Pincherle. Phys R 61:156-7 F 1 '42
Values of *R* and of *e/m*, from the spectra of H, D and He+. R. T. Birge. Phys R 60: 766-85 D 1 '41

RYE
Nation's food; cereals as food; the chemical composition and nutritive value of maize, rice, rye, and barley. W. P. Ford. bibliog Chem & Ind 60:875-8 D 13 '41
Rye's difficulties. Barron's 22:6 N 9 '42

RYERSON, Joseph T., and sons, inc.
Hundred years with five generations. il Paper Ind 24:290-1 Je '42
Leading steel warehouse interest had roots in small eastern forge. il Steel 111:73-6 O 12 '42
Ryerson business celebrates its one-hundredth anniversary. il Mach 49:216-18 N '42
Ryerson ends first century, starts second. il Iron Age 150:92A-92C O 29 '42
Steel-service company in business one-hundred years. il Blast F & Steel Pl 30:642 Je '42

S

SABOTAGE
Acts hindering defense production are sabotage. J. W. Bailey. Manuf Rec 110:26-7+ N '41
Advises assureds about protecting themselves against sabotage. J. E. Hoover. Weekly Underw 147:511 S 5 '42
British Columbia guards against sabotage. Paper Tr J 114:29 My 7 '42
California defense program is aimed at preventing sabotage. L. P. Stockman. Oil & Gas J 40:40 Mr 12 '42
Careful check on employes in war industry plants. Nat Underw 46:2+ S 10 '42
Careful check on employes to weed out potential saboteurs advised. Steel 111:65-6 Ag 17 '42
Concrete masonry vs. sabotage; firearms test. il Concrete 50:14+ Ap '42
Current law on sabotage of water works. Am Water Works Assn J 33:sup8+ N '41
Enemy within. A. C. Carruthers. il Safety Eng 83:6-8+ Ap '42
Expect sabotage! il Safety Eng 83:12-13+ Ja '42
FBI fights sabotage. J. E. Hoover. Aero Digest 40:74 Mr '42
FBI suggestions for preventing sabotage. P. E. Foxworth. Comm & Fin Chr 156:447 Ag 6 '42
Ideal anti-espionage system; union shop assumes joint responsibility; abstract. Management R 30:449-50 D '41
Incendiary fires. R. R. Sayers. Safety Eng 82:26 N '41
Invisible light used to fight sabotage. R. E. Appel. diags Water Works & Sewerage 89: 260 Je '42
Military court opens for Nazi saboteurs. Comm & Fin Chr 156:188 Jl 16 '42
Optics in sabotage and espionage. W. G. Driscoll. Opt Soc Am J 32:134-8 Mr '42
Pearl sends out Schwarz article on sabotage. East Underw 43:32 O 9 '42
Proposals for guarding waterfronts. C. H. Zearfoss. East Underw 42:64 D 12 '41
Protect your plant from bombs and sabotage. il Food Ind 14:37-40 F '42
Protecting documents from espionage and sabotage. J. E. Hoover. Product Eng 13: 85 F '42
Protection against sabotage. E. Maudlin. il Textile World 92:96-8 Jl '42
Sabotage! the secret war against America. M. Sayers and A. E. Kahn. 266p $2.50 Harper '42
Specter of sabotage. B. F. Matthews. 256p $3 Lymanhouse, 624 S. Arden blvd, Los Angeles '41
Vigilance required to defeat sabotage. R. Murphy. Weekly Underw 146:1224+ My 30 '42
War-time protection of industrial plants. plan Chem & Met Eng 49:102-5 Ja '42
Work, or no tires; slowdown strike at Lowry field. Business Week p32 Ag 8 '42

Bibliography

Sabotage and its prevention. D. C. Tompkins. 24p Bur. of public administration, Univ. of California, Berkeley '42

SACCHARIDES
See also
Carbohydrates
Polysaccharides

SACCHARIN
Food official reviews wartime problems of bottlers; objectionable character of saccharin and of copper contamination. H. C. Lythgoe. il Food Ind 14:47-8 Je '42
Saccharin spurt? Business Week p48+ Jl 25 '42

SACRAL spot. See Mongoloid spot

SACRAMENTO, California

Bridges

Four-lane viaduct replaces a flooded highway between Sacramento and North Sacramento, Calif. diags Pub Works 72:33 N '41

SACRAMENTO mountains
Mississippian formations of Sacramento mountains, New Mexico. L. R. Laudon and A. L. Bowsher. il diags maps Am Assn Pet Geologists Bul 25:2107-60 bibliog(p2158-60) D '41

SAFE deposits
Check-list for safe deposit managers. Bankers M 145:78 Jl '42
New business for the safe deposit department. J. G. Manchester, jr. Bankers M 145: 69-70 Jl '42
Rules on Hawaii safe deposit boxes. Comm & Fin Chr 156:884 S 10 '42
Safekeeping war bonds. il Banking 35:75-6 N '42 (to be cont)

SAFETY at sea
Abandon-ship necessities; ship and lifeboat equipment. il Nat Safety N 45:22, 58 Ap '42
Lightweight rubberized life-saving suit. il Marine Eng 47:196 Ag '42
Loss prevention steps in ocean marine insurance. W. D. Winter. East Underw 43: 25+ Ja 2 '42; Abstract. Nat Underw 46:5+ Ja 1 '42
New life-saving devices developed by rubber firms; parachute boat and life-saving suit. il Rubber Age 51:425 Ag '42
Overall life-saving garment. il India Rubber W 107:54 O '42
Rules for cargo stowage. M. E. McFarland. Weekly Underw 146:661 Mr 21 '42
Safety goes to sea. il Safety Eng 84:6-8 Jl '42
War and merchant seamen; life-saving appliances. Int Labour R 45:632-61 Je '42
See also
Radio aids to navigation
Ships—Fires and fire protection

SAFETY awards. See Safety contests and awards

SAFETY belts
Safety belts and harness. il Nat Safety N 45:54-5 Mr '42

SAFETY campaigns
Binghamton group (Columbia system), Binghamton, N.Y. promotes safe working and driving to aid war effort. C. C. Lamb. Am Gas J 157:35-6 O '42
Manpower conservation fund asks advertisers' aid. il Ptr Ink 201:52 O 23 '42
National safety council answers call to halt industrial accidents. Concrete (mill sec) 50:168-9 My '42
National safety council's new wartime program. East Underw 43:54 Ap 24 '42
Plan to conserve manpower. Paper Tr J 114: 26 My 14 '42
Safety aids victory, is theme of campaign. il Nat Safety N 45:64 My '42
Safety, an essential for production; countrywide emergency safety campaign. J. W. Randall. il Spectator (Life ed) 148:6-9+ Mr 26 '42
Safety in small plants pays big dividends; natural gasoline department of the Arkansas fuel oil company. D. Attaway. il Pet Eng 13:50+ Ja '42
Safety war chest. Business Week p19-20 Jl 4 '42
See also
Safety signs

SAFETY cartoons
Unsung heroes; safety cartoons. Am Mach 86:648-9 Je 25 '42

SAFETY clothing. See Clothing, Protective

SAFETY codes
Code for pressure piping. S. Crocker and others. il diags Heating-Piping 14:1-5, 101-5, 155-8, 215-19, 302-4, 357-60, 410-12 Ja-Jl '42
Mine safety code. Safety Eng 83:35-6 Je '42
Standards for safety; American standards association has organized safety code correlating committees. il Safety Eng 83:19 Je '42
See also
National electrical safety code

SAFETY committees
Accident prevention by committee. F. W. Stein. Factory Management 100:74 Mr '42
Competition supplied the spark plug; J. G. Brill co. il Nat Safety N 44:51+ D '41
Every worker has a part; Hyatt bearings division, General motors corp. J. C. Henny. il Nat Safety N 44:22-3+ D '41
Safety really works; National distillers products corp. J. J. Prabulos. il Safety Eng 82:13-14 D '41
Topics for plant safety meetings. A. J. R. Curtis. Rock Prod 45:41 F '42
We make trends; General electric company's safety program. G. E. Sanford. il Safety Eng 84:16-17+ Ag '42

SAFETY conferences
Pain in the neck? quiz programs enliven safety meetings. J. M. Falls. Nat Safety N 46:25+ Ag '42
Quiz programs enliven safety meetings; Pacific gas & electric company. E. C. Hunt. il Elec W 116:2045+ D 27 '41
Safety shows feature quiz contest, win wide attention; Pacific gas and electric co. il Elec West 87:34-5 D '41
To cut the accident rate; conference method of education in safety. A. M. Cooper. Elec W 117:1659-60 My 16 '42

SAFETY congresses
Midwest safety meeting, Chicago, May 5-7. Safety Eng 83:24-5 My '42
New problems in safety and training discussed at 20th annual Midwest safety conference, Chicago, May 5-7. Concrete (mill sec) 50:192-3, 202 Je-Jl '42
Proceedings of the Industrial safety conference held at Virginia polytechnic institute, Nov. 8, 1940. 53p 15c Virginia polytechnic inst, Blacksburg '41
Safety's spring drive; Greater New York safety congress. il Safety Eng 83:11-12 Ap '42
Uncle Sam looks at safety; Federal interdepartmental safety council 4th annual meeting. Safety Eng 83:34-5 F '42
See also
National safety council

SAFETY contests and awards
Announce winners in sand and gravel contest. Nat Safety N 46:94-5 S '42
Competition on the shipways; safety contests, Philadelphia navy yard. H. C. McIlvaine. il Nat Safety N 45:20-1 Je '42
Competition supplied the spark plug; J. G. Brill co. il Nat Safety N 44:51+ D '41
Credit for good work; sweepstakes effective in maintaining interest in safety; Republic steel corporation. H. H. McCorkle. il Nat Safety N 46:32 S '42
Eddie & Joe mine receives trophy. il Explosives Eng 20:263 S '42
Forty quarries and mines operate without accidents. Concrete (mill sec) 50:210 Jl '42
Fourteen airlines win NSC certificates. Nat Safety N 45:70 Ap '42
Full-mechanical mine captures safety award of Big Sandy-Elkhorn institute. il Coal Age 57:112-13 Ap '42
Get them flying! safety program, Vultee aircraft, inc. F. T. Munch. Nat Safety N 45:77-8 My '42
John T. Ryan trophies; new awards for achievements in mine safety. Can Min J 63:173-4 Mr '42
Mahoning mine holds presentation exercises. il Explosives Eng 20:264-5 S '42
National crushed stone association safety competition of 1941. T. D. Lawrence and J. E. Isaacson. Explosives Eng 20:244-5 Ag '42
National safety competition of 1941; with accident data for quarries and mines. W. W. Adams and T. D. Lawrence. U S Bur Mines Rep of Invest 3653:1-43 '42
National safety competition of 1941; with list of winners, 1925-1941. W. W. Adams and T. D. Lawrence. il map Explosives Eng 20: 192-202 Jl '42
National traffic safety contest winners for '41. East Underw 43:54 Ap 24 '42
Republic Steel divisions win safety plaques. il Nat Safety N 46:90 Jl '42
Safety awards presented at annual meeting of crushed stone producers. il Explosives Eng 20:84-5 Mr '42
Safety in the textile industry; sixth statewide textile safety contest in North Carolina. Textile Col 64:42+ Ja '42
Seaman award contest announced for 1942. Nat Safety N 45:72-3 Ja '42
Sentinels of safety trophy presentations; awards to leaders in bituminous and open-pit groups for 1940. il Explosives Eng 19: 323-7 N '41
Tennessee coal, iron and railroad company celebrates double award. il Explosives Eng 19:371-3 D '41
Traffic safety honors for Oklahoma and Memphis. Nat Safety N 45:52 My '42
Winners in 1941 railroad employee safety contest. Nat Safety N 45:62 Je '42
See also
Harriman memorial medals for safety

SAFETY devices and measures
Care of the careless! worker that doesn't take safety seriously. J. G. Walters. Safety Eng 82:11-12 D '41
Cheerful messenger; illustrated publication aids safety program of Shevlin-Hixon company. C. K. Weil. il Nat Safety N 46:20-1+ Ag '42
Clean floors; removing dirt is a logical starting point for program of safety, sanitation. il Nat Safety N 46:66-7+ O '42
Ears for the job; where safety depends upon good hearing, periodic tests are important. H. C. Walker. il Nat Safety N 46:28+ Ag '42
Editors of employee publications as salesmen of safety. H. Armand. Safety Eng 83:10 Ap '42
Executives look at the safety program; symposium. Concrete (mill sec) 49:286-9 D '41

SAFETY devices and measures—*Continued*

For the rope headache; care and safety measures. il map Safety Eng 84:33-4, 36-7 O '42

Formulation of safety rules and their application. J. S. Cuthbert. il Concrete (mill sec) 50:236-9 S '42

Fulminate of mercury; hazards and precautions. bibliog Nat Safety N 44:38, 40+ D '41

Guillotine cutters; hazards and precautions. Nat Safety N 45:54, 56 F '42

Handbook of industrial safety standards. rev 1942 ed 190p, xxxiip Nat. conservation bur, New York '42

Handy men; maintenance man's protection too often overlooked. A. W. Herdman. il Nat Safety N 46:24-5+ Jl '42

Health and safety for America's workers; 25 case studies. il Factory Management 100: 73-96 Ja '42

How food plant set record for safety; Godchaux sugars, inc., Reserve, La. A. M. Smith. il Food Ind 14:65-6+ S '42

Industrial safety and the war effort. Management R 31:91-2 Mr '42

Insurance engineer wins Seaman award; essay contest, sponsored by the American museum of safety. Nat Safety N 46:80 Jl '42

Insurance manager and accident prevention; abstract. P. D. Betterley. Management R 31:143-4 Ap '42

Job is safer; Fisher Body puts responsibility on supervisors. Business Week p74 Jl 11 '42

List of inspected gas, oil, and miscellaneous appliances, December, 1941. rev ed 166p Underwriters' laboratories, 207 E. Ohio st, Chicago '41

Magnesium alloys; hazards and precautions. Nat Safety N 45:56, 58 Je '42

Management can't do it alone. G. T. Roselle. Nat Safety N 46:56+ S '42

Manpower is warpower. W. S. Knudson. Nat Safety N 46:56-7+ O '42

National safety news annual safety equipment issue; buyers' guide. il diags Nat Safety N 45:3-196 Mr '42

Naval shore program. E. B. Landry. il Safety Eng 84:10-12 Jl '42

Outwitting the hazards; youth attacks the accident problem. F. L. Bacon. 446p $1.80 Silver Burdett co, New York '41

Personal check list for workers. H. P. Heyne. Nat Safety N 45:94 Ja '42

Personnel safety in airplane factories. il Aero Digest 40:93-4+ Mr '42

Preventing accidents in war plants; Chrysler corporation, Detroit. O. L. Bristol. Factory Management 100:75+ Ag '42

Primary causes of loss. P. D. Betterley. Weekly Underw 146:782-5 Ap 4 '42

Protection against accidents. W. W. Chase and H. E. Reed. il Textile World 92:88-91 Jl '42

Protection for production. S. A. Bell. il Mod Plastics 19:43-5+ Mr '42

Safe-ending hand tools. il diags Safety Eng 83:33-4 Mr '42

Safe plant is a productive plant; 26 simple safety rules. A. F. Erickson. Factory Management 100:76 Jl '42

Safety at Collins & Aikman; record of 4,000,000 man-hours without an accident. W. Gill, jr. Textile World 92:78-9 S '42

Safety exchange. il Published in monthly numbers of National safety news

Safety month by month; program of suggested topics for 1942. Nat Safety N 45:10-11 Ja '42

Sisal rope; hazards and precautions. Nat Safety N 46:52, 54 Jl '42

Some reflections on attaining greater safety. J. Creevey. Chem Age (Lond) 47:339-40 O 17 '42

Static electricity. F. B. Silsbee. bibliog U S Nat Bur Stand Circ C438:1-36; pa 10c Supt. of doc. '42

Stimulating safety work; abstract. Management R 30:450-1 D '41

Who pays? W. A. Tonning. il Safety Eng 83:20-1 F '42

Why Argo plant keeps its national safety record; Corn products refining co. G. Currier. il Mod Packaging 16:86-8, 90+ O '42

See also

Accidents, Industrial
Air brakes
Automobile drivers
Automobile driving
Clothing, Protective
Disinfection and disinfectants
Dust removal
Electric protective apparatus
Eye—Examination
Eye—Protection
Factories—Cleanliness
Factories—Lighting
Factory inspection
Fire protection
First aid in illness and injury
Floors—Anti-slip surfaces
Goggles
Hand—Protection
Inflammable liquids
Inflammable mixtures
Insurance, Automobile—Preventive work
Insurance, Casualty—Preventive work
Ladders
Lightning arresters
Lightning protection
Motor truck drivers
National safety council
Poisons, Industrial
Railroads—Signals
Safety at sea and other headings beginning Safety
Street lighting
Traffic lines
Traffic regulations
Workmen's compensation

also subdivision Safety measures under special subjects, e.g.

Air compressors
Aviation
Bridge painting
Chemical laboratories
Coal mines and mining
Electric equipment
Electric utilities
Machine shops
Machinery
Mining engineering
Paint spraying
Paper mills
Railroads
Railroads, Industrial
Roads
Scaffolding
Steel works
Welding

Bibliography

Safety library. M. M. Wells. Published in monthly numbers of National safety news

Safety publications. Nat Safety N 45:15-16 Mr '42

Psychological aspects

Is safety being over-emphasized? J. A. Campbell. Pet Eng 13:40, 42 D '41

Personal factor in accidents. Engineer 174: 201-2 S 4 '42; Abstract. Electrician 129:241-2 S 4 '42

Psychology in highway design. S. M. Spears. W Soc E J 46:275-87 D '41

Safety sermonettes; human element. W. B. Paton. Can Min J 63:171-3 Mr '42

Safety supervision. V. G. Schaefer. 352p $2.50 McGraw-Hill '41

SAFETY education

College electrical laboratories; expanding field for safety education. M. S. Coover. il Nat Safety N 45:22-3, 94-7 My '42

Health and safety courses; New York University center for safety education. Safety Eng 82:42 N '41

Industry goes collegian; Evansville, Ind. G. M. Baird. Ind Med 11:162-3 Ap '42

Jeffers appeals for stay away from tracks campaign. Ry Age 113:631-2 O 17 '42

Teaching safety education in secondary schools. W. R. Laporte, C. H. Hunt and F. R. Eastwood. 181p bibliog(p167-75) $1.50 Prentice-Hall '42

Vocational and safety training; abstract. J. I. Yellott. Concrete (mill sec) 50:192-3 Je '42

See also

Radio broadcasting—Safety programs
Safety engineering—Study and teaching
Safety instructions and training

SAFETY engineering

Chrysler girds for war. J. J. Prendergast. il Nat Safety N 45:10-11+ Ap '42

Development of a flexible safety program for the smaller plant; abstract. E. R. Granniss. Concrete (mill sec) 50:192 Je '42

Felling timber and accident costs; Edward Hines lumber company. C. L. Irving. il Nat Safety N 45:18-19, 64+ Ja '42

Foreman in war time. E. R. Granniss. Nat Safety N 46:10-11, 60+ Jl '42

SAFETY engineering—*Continued*

Industrial safety and the war effort. J. Stilwell. Edison Elec Inst Bul 10:17-18+ Ja '42

Latins learn safety when army builds bases. T. S. Crandall. il Nat Safety N 46:72-3 Jl '42

New tunes for Axis ears; safety features in Rock-Ola manufacturing company's changeover to munitions. il Safety Eng 84:6-8 S '42

On guard; plant guard force, Joshua Hendy iron works. C. J. Voris. il Nat Safety N 45:17-18+ Je '42

Rookie, watch your step; safety in the CCC. G. H. Gilbertson. il Safety Eng 83:12-14 F '42

Safe jobs save time; building transmission line through swampy, heavily wooded country; safety measures put into operation by engineer of casualty insurance company. A. W. Meinke. il Eng N 128:868-70 My 21 '42

Safe practices in the natural gasoline plant. D. Attaway. il Pet Eng 13:96, 99-100, 102 Je '42

Safety in powder plant construction. il Eng N 128:404-6 Mr 12 '42

Safety's triangle; vigilance, cleanliness and morale; shell loading and ordnance plants. J. R. Mardick. il Safety Eng 83:13, 16 Ap '42

See also

Conveying machinery—Safety measures

Machinery—Safety devices

Tunnels and tunneling—Safety measures

Study and teaching

College-level safety training; government-sponsored, tuition-free evening courses in the Chicago area train key employees in accident prevention. J. I. Yellott. il Nat Safety N 46:16-17, 68+ S '42

Efficient training in safety engineering. J. I. Yellott. Concrete (mill sec) 50:269 N '42

Government requires American standards in accident-prevention courses. Ind Stand 13:84 Ap '42

How many can you answer? safety fundamentals; questions compiled for course under the Defense training program. Nat Safety N 46:32, 66 Jl '42

New training opportunities; courses in industrial safety given at colleges and universities. H. J. Stack. Safety Eng 84:57-8 O '42

Safety engineering training a graduation requirement. A. Naeter. J Eng Educ 32:810-11 Je '42

Safety goes to college. J. C. Stennett. Nat Safety N 46:19 Jl '42

Training courses in safety. Safety Eng 83:20+ Mr '42

Wartime safety work is good omen for future; training of men within industry. Nat Underw 46:13+ Jl 30 '42

SAFETY engineers

Anonymous heroes of war production. W. S. Griswold. il Nat Safety N 45:18-19+ F '42

Safety engineer; his importance to industry. H. W. Puetz. Safety Eng 83:18 Ap '42

SAFETY equipment

Bullard emphasizes new products with newspaper stunt. il Ind Marketing 26:38+ D '41

Goggles in cellophane; safety equipment is sterilized; General electric company. M. C. Goodspeed. il Factory Management 100:80 Ja '42

How to conserve, repair and store rubber safety aids. C. A. Coutts. Elec W 118:960 S 19 '42

Look for the reason protective equipment meets with objection. J. S. Cuthbert. il Nat Safety N 45:5+ Mr '42

National safety news annual safety equipment issue; buyers' guide. il diags Nat Safety N 45:3-196 Mr '42

Official exposition guide, 31st National safety congress and exposition; with directory of exhibitors. plan Nat Safety N 46:1-6 O '42

Personal protective equipment aids in preventing accidents. H. W. Richards. Oil & Gas J 40:85-6+ F 26 '42

Priorities for safety. A. O. Boniface. Safety Eng 83:6-8 F '42

Priorities on safety equipment as they concern the electric utilities. T. R. Claffy and others. Edison Elec Inst Bul 10:96-8 Mr '42

Protection under priorities. H. C. Mesch. Nat Safety N 46:19, 74+ Ag '42

Right-of-way for safety; effect of priorities on safety equipment. H. C. Mesch. il Safety Eng 84:28-30 Ag '42

Safety fights our battles; safety equipment in war production. il Safety Eng 84:33-4 Ag '42

Take it easy; how to make your safety equipment last longer. A. O. Boniface. Safety Eng 84:26, 28-30 O '42

WPB looks at safety equipment; recent rulings on the use of scarce materials. Nat Safety N 45:24 Je '42

See also

Clothing, Protective

Fire extinguishers

Respiratory apparatus

Shoes, Safety

Advertising

American Optical aims to save sight of the soldiers of production. C. H. Gallaway. il Ind Marketing 27:18-19 Mr '42

SAFETY exhibits

Displays sell safety story; Farrell-Birmingham company. A. S. Redway. il Factory Management 100:85 Ja '42

SAFETY glass. See Glass, Safety

SAFETY hats. See Hats, Safety

SAFETY in the country

Embattled farmers; problem of safety on the farm. T. R. Reid. il Nat Safety N 45:17-18+ Ap '42

SAFETY in the home

Home safety stressed in Coronet article. Nat Safety N 45:95 Ja '42

How America's defense program can be helped in the home; abstract. D. B. Armstrong and W. G. Cole. Ins Field (Life ed) 70:6 N 28 '41

SAFETY inspection

Machinery breakdown insurance. A. F. Graham. Am Water Works Assn J 33:2192-200 D '41

Topics for plant safety meetings. A. J. R. Curtis. Rock Prod 45:42-3 Ap '42

See also

Factory inspection

SAFETY instructions and training

Casualties on the home front; industrial accidents could be halved by rehearsed conference system of safety. A. M. Cooper. Barron's 22:20 Je 8 '42; Same cond. Management R 31:237-8 Jl '42

Effective way of instructing machine shop operators. W. L. Bond. il Mach 49:162-4 S '42

Foreman takes over. R. S. Elberty. Safety Eng 82:16 D '41

From snapshots to film strips; taking pictures on the job provides excellent material for safety meetings. G. M. Probst. il Nat Safety N 46:22-3 Jl '42

Get them flying! safety program, Vultee aircraft, inc. F. T. Munch. il Nat Safety N 45:20-1+ My '42

Glorifying the rule book; safety manual, Allis-Chalmers manufacturing co. G. F. Nuernberger. il Nat Safety N 45:23+ Ap '42

Home guards; problems of plant protection. V. G. Schaefer. Nat Safety N 46:27+ S '42

Introducing the new employee; safety instructions, Scott paper co. H. Lamb. il Paper Ind 23:785-6 N '41

Lest they forget! precautions required of employees at Delco products division of General Motors. Nat Safety N 44:78-9 D '41

Mine safety should be taught as a skill of which workmen will become proud. Coal Age 47:64 S '42

SAFETY instructions and training—*Continued*

Old stuff but safe stuff; safety instruction cards in the shop. il Bus Transportation 21:94-6 F '42

Organization and training. flow chart il Nat Safety N 45:6-7+ Mr '42

Rookie, watch your step; safety in the CCC. G. H. Gilbertson. il Safety Eng 83:12-14 F '42

Safety information for the new employee. Management R 31:233-4 Jl '42

Safety through first aid. G. B. Horn. Nat Safety N 45:97 F '42

School for safe practice; New York telephone company. il Nat Safety N 45:24-5 F '42

School teaches safety in explosives manufacture; U. S. Ordnance department Explosives safety branch. C. Field. Nat Safety N 46:80 O '42

Sold at the start; new employees learn the value of personal protection; Hawthorne works of Western electric company. il Nat Safety N 45:8-9+ Mr '42

Starting new employees off on the right foot; 19th regional safety meeting held by representatives of the cement industry. Concrete (mill sec) 50:256 O '42

Strategy for safety. A. M. Cooper. il Am Mach 86:819-21 Ag 6 '42

To cut the accident rate; conference method of education in safety. A. M. Cooper. Elec W 117:1659-60 My 16 '42

Training new employees to observe rules of safety. Concrete (mill sec) 50:218-20 Ag '42

Training personnel in the problems of mechanical mining; Union Pacific coal company. R. R. Knill. il Min Cong J 27:34-6+ N '41; Abstract. Coal Age 46:88 D '41

Training that sticks. J. H. Myers. il Nat Safety N 45:51-2, 88-9 F '42

War brings new problems to the cement industry. R. A. Dittmar. Rock Prod 45:76+ Ag '42

War-time safety education at Climax. W. E. Jones. Eng & Min J 143:59-60 O '42

We make trends; General electric company's safety program. G. E. Sanford. il Safety Eng 84:16-17+ Ag '42

Wright plan for safety. W. J. Willcox. il Safety Eng 84:6-7, 20 Ag '42

See also

First aid in illness and injury

Safety education

SAFETY isles

Directional and pedestrian islands, Washington, D.C.; unit prices. Eng N 129:596 O 22 '42

SAFETY lamps, Electric

Field performance of permissible electric cap lamps. A. B. Hooker. U S Bur Mines Information Circ 7188:1-11 '42

Investigations of permissible electric mine lamps, 1930-40. L. C. Ilsley, A. B. Hooker and W. H. Roadstrum. il diags U S Bur Mines Bul 441:1-50; pa 15c Supt. of doc. '42

SAFETY laws and regulations

Small plant safety advanced under the provisions of the Walsh-Healey public contracts act. Safety Eng 84:42 O '42

See also

Automobile laws and regulations

Factory inspection

Factory laws and legislation

Workmen's compensation

SAFETY matches. See Matches

SAFETY movement

Leaders interpret aims of war production fund; opening of New York's part in drive of the National safety council war production fund to conserve manpower. Nat Safety N 46:68-9+ O '42

Safety's second World war. J. W. Randall. Nat Safety N 45:10-11, 69-72 My '42

See also

Automobile driving

National safety council

Roads—Safety measures

SAFETY organization

Get them flying! safety program, Vultee aircraft, inc. F. T. Munch. il Nat Safety N 45:20-1+ My '42

How the world's safety record for refineries was made; Standard oil co. (Indiana) refinery at Wood River, Ill. L. D. Palmer. il Oil & Gas J 41:43-5 O 22 '42

How to set up organization for accident prevention. Nat Pet N 34:30, 32-4 Jl 1 '42

Mr Safety Director, a challenge. H. A. Keir. Nat Safety N 45:93 Ap '42

No stone unturned; first aid training is helping to develop safety-minded organizations. J. B. Dunne. il Nat Safety N 46:62-3+ O '42

Organization and training. flow chart il Nat Safety N 45:6-7+ Mr '42

Safety boosters club cuts accidents. G. C. Kerr. Pulp & Pa of Can 43:794+ S '42

Safety council founded at Hamilton, Ohio. Nat Safety N 46:96-7 S '42

Safety organization of Boston consolidated gas company. C. L. O'Reilly. Am Gas J 157:33-5 O '42

Star drivers club. il Ptr Ink 197:72 D 19 '41

Wright plan for safety. W. J. Willcox. il Safety Eng 84:6-7, 20 Ag '42

See also

Safety committees

SAFETY pins

Making safety pins. il Elec R (Lond) 130:589-91 My 8 '42

SAFETY posters

Posters for specific uses. E. I. Woodbury. Nat Safety N 45:28+ My '42

Safety posters. Published in monthly numbers of National safety news

SAFETY shoes. See Shoes, Safety

SAFETY signs

Safety signs; do's, don'ts and directions. il Nat Safety N 45:181-2 Mr '42

SAFETY slogans

Paycheck safety slogan; Puget Sound navy yard. il Inland Ptr 108:62 N '41

SAFETY standards

Government requires American standards in accident-prevention courses. Ind Stand 13:84 Ap '42

Manganese standard protects health of war workers. Ind Stand 13:221-2 S '42

New cadmium standard protects workers' health. C. Ainsworth. Ind Stand 12:317-18 D '41

Safety standards combat rising accident rate. V. A. Zimmer. Ind Stand 13:152-4 Je '42

Use of benzol is safeguarded by American standard recommendations. Ind Stand 13:99 Ap '42

Western states to work for uniform safety standards. Ind Stand 12:280-1 O '41

See also

Safety codes

Bibliography

Safety standards prevent accidents; list of those approved by American safety standards. Safety Eng 82:32-4 N '41

SAFETY statistics. See Accidents—Statistics

SAFETY valves

How to make your relief and safety valves last longer. W. J. H. Miller. diags Power Pl Eng 46:104 Ag '42

Pressure loaded safety valve for high pressure gas storage plant; patent. diags Gas J (Lond) 240:69 O 14 '42

Safeguarding oil and gas wells against bombing and sabotage. J. O. Farmer. Oil & Gas J 41:49+ Ag 20 '42

Safety valve sizes. Power Pl Eng 46:97 Ap '42

Saving men and metal in natural-gasoline plant. il Oil & Gas J 41:35 Jl 2 '42

Steam flow through safety valves. E. K. Falls. bibliog il diags Ohio State U, Eng Exp Sta Bul 110:1-106 '42 (pa $1)

SAFEWAY stores, inc.

Consolidated income account, 1939-1941. Comm & Fin Chr 156:260 Jl 20 '42

Factors affecting Safeway earnings. Barron's 22:6 Mr 2 '42

SAFEWAY stores, inc—*Continued*

Offering price. Comm & Fin Chr 156:1510 O 26 '42

Outstanding stocks for income and profit. Mag of Wall St 70:441 Ag 8 '42

SAILING vessels

Wood, wind, and sail, the coffee fleet; with table giving ports of call, time and cargo of the sailing fleet. W. C. Taylor. il map For Comm W 7:3-5, 41-2 My 23 '42

Wooden schooners to meet ship shortage. Barron's 22:4 Jl 13 '42

SAILORS. See Seamen

SAILPLANES. See Gliders

ST DENIS (abbey)

Abbey of St-Denis, 475-1122. S. M. Crosby. v 1 211p bibliog(p191-8) $7 Yale univ. press '42

ST GEORGES, Delaware

Bridges

Design of St Georges tied arch span. J. M. Garrelts. il diags Am Soc C E Proc 67:1801-12 D '41; Discussion. 68:341-2, 593-5, 845-53, 1054-6, 1168-70, 1411-12, 1617-18 F, Ap-Je, S-N '42

How St Georges tied arch was erected. W. H. Bruce and C. U. Kring. il diag Eng N 128:26-8 Ja 1 '42

Tie dominates rib in St Georges arch. M. N. Quade. il diags Eng N 128:22-6 Ja 1 '42

SAINT JOHN the Divine, Cathedral of

Photographs, by Robert Damora. Arch Forum 76:143-6 Mr '42

ST JOSEPH lead company

Annual report. Comm & Fin Chr 155:1021 Mr 9 '42

ST LAWRENCE waterway and power project

Hints postponement. Comm & Fin Chr 156:1185 O 1 '42

N.Y. Chamber opposes St Lawrence waterway. Comm & Fin Chr 154:1127 N 20 '41

Obit of a pet. Business Week p20 S 26 '42

St Lawrence development regarded as a necessity. T. H. Hogg. Roads & Bridges 80:72 Ap '42

St Lawrence project off for duration. Comm & Fin Chr 156:1447 O 22 '42

St Lawrence seaway project; committeemen arguments pro and con. A. Barnes. Pub Util 29:14-20 Ja 1 '42

ST LOUIS

Hotels

St Louis hotel remodels roof bar and dining space; Chase Hotel cocktail lounge and Starlight roof. il diags plan Arch Rec 91:72-4 F '42

Railroads

Railroad underpass aids St Louis traffic. W. J. Hedley. il diags Eng N 129:290-2 Ag 27 '42

Terminal not thwarting development of memorial. Ry Age 113:546 O 3 '42

Why St Louis is no bottleneck; Terminal railroad association is keeping heavy traffic moving. il map Ry Age 113:655-7+ O 24 '42

Rapid transit

Radio communications installed at St Louis and Cleveland. il Transit J 85:416-17 N '41

St Louis public service company. Pub Util 30:240 Ag 13 '42

ST LOUIS-San Francisco railway

Annual report. Comm & Fin Chr 155:1757 My 4 '42

Equipment trust certificates; ICC report. Comm & Fin Chr 155:2371-2 Je 22 '42

Equipment trust certificates offered. Comm & Fin Chr 155:2189 Je 8 '42

Prior lien bondholders' committee reports. Comm & Fin Chr 155:1845 My 11 '42

Reorganization plan held inadequate; returned to ICC by court. Comm & Fin Chr 156:438 Ag 3 '42

To offer equipment issue. Comm & Fin Chr 155:2099 Je 1 '42

ST LOUIS southwestern railway

Attorneys say valuation for capitalization purposes is erroneous; obstruction to reorganization removed. Comm & Fin Chr 156:1613 N 2 '42

Reorganization plan modified. Comm & Fin Chr 155:1417 Ap 6 '42

Traffic statistics and consolidated earnings, 1938-1941. Comm & Fin Chr 155:1605 Ap 20 '42

ST LOUIS stock exchange

Monthly range of prices, 1941; tabulation. Comm & Fin Chr 155:476-7 Ja 29 '42

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

ST NAZAIRE, France

Harbor

Air force targets; St Nazaire dock. il plan Engineer 173:305-6 Ap 10 '42

ST PAUL, Minnesota

Tax-reverted land for city expansion. Eng N 128:787 My 7 '42

WPA work for the St Paul water department; abstract. Pub Works 73:42 S '42

Water supply

Experience with St Paul softening plant. L. N. Thompson. il plan Civil Eng 12:603-5 N '42

Water softening. R. E. Thompson. diags Water & Sewage 80:25+ F '42

ST PAUL fire and marine insurance company

Company analysis. Spectator (Property ed) 8:30-1 Jl 9 '42

ST PIERRE, Martinique

Nails from ruins of St Pierre, examined for evidence of conditions existing in the nuée ardente. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:208-11, 522-6 F, Ap '42

ST REGIS paper company

Annual report. Comm & Fin Chr 156:261 Jl 20 '42

SAINT-VENANT'S principle

Extension of Saint-Venant's principle, with applications. J. N. Goodier. bibliog diags J Ap Phys 13:167-71 Mr '42

SALARIES

Annual wages and salaries in the United States, 1939. Monthly Labor R 55:149-51 Jl '42

Byrnes order fixes salary freeze. Business Week p7 O 31 '42

Canadian wartime salaries order. Monthly Labor R 54:52-3 Ja '42

Commissions included under $25,000 salary limitations order. East Underw 43:1+ O 30 '42

Comparative statistics on clerical salaries. Management R 31:181-2 My '42

Job evaluation for salaried positions; York ice machinery corp. D. M. Magor. N A C A Bul 23:1354-64 Je 15 '42

Lost $40 billion; more flowing into high salaries, but most of pressure on prices is coming from those with $5,000 and less. Fortune 26:74-9 Ag '42

Salary and wage administration. S. L. H. Burk. N A C A Bul 23:1347-54 Je 15 '42

Salary evaluation. A. S. Knowles and T. M. McAuley. 33p Northeastern univ. Bur. of business research, 360 Huntington av, Boston '41

Salary payments during illness. Management R 31:219-23 Je '42

Salary regulations setting $25,000 maximum issued by Economic stabilization director; text. Comm & Fin Chr 156:1713, 1719 N 12 '42; Summary. 156:1543 O 29 '42

Trends in estate planning; salary ceiling: $25,000 plus? H. S. Koster. Trusts & Estates 75:385-6 O '42

SALARIES—*Continued*
Your new taxes; revolutionary new salary measure. L. J. Freeman. Barron's 22:3-4 N 9 '42; Correction. 22:7 N 16 '42

See also
College professors and instructors—Salaries
Engineers—Salaries
Executives—Salaries
Government employees—Salaries
Librarians—Salaries
Municipal employees—Salaries
Police—Salaries
Salesmen—Salaries and commissions
Wages

SALES
How the defense program is affecting buying and selling contracts. C. R. Rosenberg, jr. Heat & Ven 38:48-50 D '41
Outline of the law of sales. F. A. Whitney. 3d ed 309p $3 St. John's univ. press, Brooklyn, N.Y. '41
Second bid; offer to receiver for a corporation before sale is confirmed by the court. M. L. Hayward. Barron's 22:4 Je 29 '42
Uniform sales act; model law drafted for Congress and legislatures. Business Week p40+ Ag 29 '42
Use of textile machinery beyond trial period as acceptance. L. Childs. Rayon 23:52 Ja '42
Validity of contract limiting liability of warranty; how one manufacturer protected himself against liability under common law and the Uniform sales acts. L. Childs. Ind Marketing 27:32+ F '42
WPB forms rules governing special sales of idle materials. Oil Paint & Drug Rep 142:3+ O 5 '42

See also
Contracts
Payment
Warranty

SALES, Conditional

See also
Instalment plan

SALES campaigns
How Washburn-Wilson is cashing the demand for dried legumes. J. S. Nelson. il Sales Management 51:42-4 O 20 '42
Liquor industry merchandises war bonds at points of consumer sale. il Ptr Ink 200:25, 28 Jl 3 '42
Pal blades break 750 markets with sampling and advertising; turns from private brands to advertised name. il Sales Management 51:50-1 S 15 '42
Up-to-date notes on Del Monte's sponsorship of glassed foods. il Sales Management 50:34-5 Ap 1 '42

See also
Advertising campaigns
Sales contests

SALES conferences
How to use printed material in the sales meeting. E. J. Hegarty. Ptr Ink 199:34+ Je 5 '42

See also
Sales conventions

SALES contests
Contest-in-a-contest clicks for Coca-Cola bottling co. of Rhode Island. Sales Management 50:34 Ap 20 '42
Contest switches seasonal peak into steady all-year sales; Hough shade corp. Sales Management 51:67-8 Jl 1 '42
Pure Oil lifts sales of related items 20-35% with mobilization contest. W. P. Marquam. il Sales Management 50:48, 50-1 Mr 15 '42
Reviving the zest for selling after a wage adjustment; Nehi of Los Angeles and its driver-salesmen. G. E. Silver. il Sales Management 49:48-9+ D 1 '41
Roundup contest breaks records for Consolidated Freightways. il Sales Management 51:20-1 Jl 15 '42
Sales contests are viewed with mixed emotion; pictograph. Sales Management 50:42 Je 15 '42
Salesmen's contest to get new dealers. Ptr Ink 201:49 O 2 '42
Sonotone's stamp album contest hoists summer volume 42%. il Sales Management 49:58+ N 15 '41
Volupte's all-year contests pit each man against his own record. Sales Management 49:58+ D 1 '41

SALES conventions
Faced with product cuts, Necco pounds at man power efficiency; New England confectionery co. concentrates on showing salesmen how to do a better job. il Sales Management 50:42-3 My 1 '42
Profit-making ideas emerge from salesmen's squawk session. il Sales Management 49:32+ D 1 '41
Weatherhead holds sales convention on a tour of its plants. il Ind Marketing 27:41+ Mr '42

Mail conventions

Graybar mail order convention a wow: showmanship does it. il Sales Management 51:28 Ag 1 '42
Perhaps these times call for an annual convention by mail. E. Peterson. Ptr Ink 198:20, 22, 67 Mr 13 '42

SALES costs
What kind of selling can we expect after the war? E. Whitmore. Am Business 12:14-16 Ap '42
What price volume? E. A. Burnham. Harvard Business R 20 no 3:327-35 [Ap] '42

See also
Automobiles, Salesmen's
Salesmen—Expenses

SALES departments
Has advertising usurped sales prerogatives? C. S. Kauffman. Ptr Ink Mo 43:34+ D '41
How Keasby & Mattison utilizes sales department in war effort; operation of information flow program and priority department. W. S. Acuff, jr. Ind Marketing 27:17+ Je '42
Survey shows how business is cutting waste in sales department operation; 22 major ways. P. Salisbury. Sales Management 50:20-2 Je 1 '42

See also
Sales managers
Sales records

SALES executives, National federation of. See National federation of sales executives

SALES letters
Business letters should be planned; here's formula. V. Young. Ptr Ink 200:28+ Jl 31 '42
Do you want your catalog to make hay—rain or shine? Butler brothers letter. Sales Management 51:56 O 20 '42
Do you write good sales letters? G. L. Dundas. Ins Field (Fire ed) 71:20 Jl 9 '42
Fifteen-year-old letter program; gadget letters of Fulton-Wassell paper company, Little Rock, Arkansas. L. P. Bott, jr. Am Business 12:12-13+ Ag '42
Gadgets, tricks, and puzzles to make letters pull. il Am Business 12:17 My '42
Gets direct mail sales at 8% cost; machine vises. W. P. Woodall. il Ind Marketing 27:42+ Jl '42
How to write an effective letter. H. D. Shaw. Ptr Ink 200:42+ S 18 '42
Letter to stockholders that created interest. Comm & Fin Chr 155:839 F 26 '42
Letters, 12,342; replies, 1,474 (11.9%); cost per inquiry, $0.75; National fire group advertises to agents. J. W. Mason. Ptr Ink 199:22, 24+ Je 26 '42
More letters will save more tires; salesmen as letter writers. C. P. FitzPatrick. diag Ind Marketing 27:32, 35+ Jl '42
Put more question marks in business letters! V. Young. Ptr Ink 201:39-40 O 16 '42
Put the man-to-man spirit into wartime letters to customers. Sales Management 51:60+ Ag 15 '42
Sales letter round table. Sales Management 50:62 Ja 15 '42 [cont monthly]
Sales letter that produced returns of 13%. Comm & Fin Chr 156:527 Ag 13 '42

SALES letters—*Continued*

Securities salesman's sales letter that worked; complete candor. Comm & Fin Chr 156:359 Jl 30 '42

Some uses for a red pencil. Comm & Fin Chr 156:271 Jl 23 '42

Using simplicity and frankness in writing security analyses. Comm & Fin Chr 155: 1138 Mr 19 '42

See also

Advertising, Mail
Christmas letters
Complaints

SALES management

Adaptation to war; Lyon metal products plants are busy as result of effort to bring in high-priority business. Business Week p22+ Ap 25 '42

But what's to become of all the salesmen? Lyon metal products lets them dig for war orders. il Fortune 25:84-7+ My '42

Caravaning for sales; pooling of 25 salesmen's resources in Florida. R. H. Cooper. il Adv & Sell 35:36+ N '42

Carstairs men use more mail and 'phone; less tires and gas. P. J. Kelly. il Sales Management 51:52, 54 Jl 15 '42

Clearly defined sales and advertising tasks guide Dow's marketing; departmental sales groups, business papers, and general media advertising. R. A. Brewer. il Ind Marketing 27:18-19+ Je '42

Finds new lines for priority bound sales force; Aluminum goods manufacturing company, Manitowoc, Wis. Am Business 12:38 Ap '42

First steps in reducing sales costs; classifying customers. E. Whitmore. Am Business 12:12-13+ Jl '42

Getting salesmen to follow through on sales plans. P. W. Combs. Ind Marketing 27:33+ My '42

Has advertising usurped sales prerogatives? C. S. Kauffman. Ptr Ink Mo 43:34+ D '41

How Armstrong converted its sales set-up for war times. A. R. Hahn. il Sales Management 51:18-21 O 1 '42

How Bankamerica checks and controls a force of 75 field men. W. H. Livingstone. Sales Management 50:54, 56-7 Mr 15 '42

How Federal Association finds prospects for its salesmen; dinner meetings sponsored by church and fraternal groups. Sales Management 51:46-8 Ag 15 '42

How General Foods combats costs on an elevator, prices on skids; concentrating on better grade stores, pushing a few items at a time. A. S. Igleheart. Sales Management 49:47 D 1 '41

How General Foods maintains net profit. Ptr Ink 197:14 N 28 '41

How one typical small business converted for total war; Kirkhill rubber co. T. K. Hill. Sales Management 50:20, 22 Ap 1 '42

How to hold sales force nucleus for rebuilding after war; American type founders works out problem on engineering basis. C. J. Swan. Ptr Ink 198:19-20 F 27 '42

How we go get war work; Lyon metal products, inc. E. D. Power. il Factory Management 100:68-71+ My '42

Industrial manufacturer integrates salesmen's program; Westinghouse trains staff to be of maximum help to customers. T. Fort. il Ptr Ink 201:18-19+ O 9 '42

Joseph Zinke takes shoe repairs from back alley to Main street. il Sales Management 51:50 O 20 '42

Keep 'em selling dept. Sales Management 50: 42 Mr 1 '42

Lyon Metal's all-out effort for war business gets results. L. Rhodes. il Ind Marketing 27:20-1+ My '42

Marketing under war conditions. E. H. Gault, ed. 52p pa $1 Univ. of Michigan, School of business administration, Bur. of business research, Ann Arbor '42

New jobs for salesmen. Management R 30: 425-7 N '41

No let-up in industrial selling effort now, sales executives declare; oversold sales forces have useful and logical tasks. Ptr Ink 200:15-16+ S 11 '42

Paratroop tactics in wartime sales. C. G. Pyle. Ind Marketing 27:23-4+ Ag '42

Rumford cuts 128,222 miles from sales routes; sales trend up. Sales Management 51:48+ S 1 '42

Sales management during this national crisis. B. Bigelow. Dun's R 49:20-4+ D '41

Sales management; retrospect and prospect. H. R. Tosdal. Harvard Business R 21 no 1:71-82 [S] '42

Sales slack? lay out a new sales program; Strathmore paper company. C. Norton. Ptr Ink 200:15-16 Ag 21 '42

Salesmen make new customers, save rubber, gasoline and time; reversion to old-time hotel sample room. Ptr Ink 200:24 S 25 '42

Selling what you've got, when you haven't got it; not so much leg work for salesmen but head work is needed more than ever. J. H. Van Deventer. Ptr Ink 199:17-18, 65-8 Ap 17 '42

Shortages have to be sold, and it takes salesmen to do it. Sales Management 50: 68+ F 15 '42

Six-point plan bags prize for Devoe & Raynolds Detroit branch. Sales Management 51: 74 Jl 1 '42

Sixty three leading questions for sales manager to ask himself. P. W. Combs. Ptr Ink 200:17 Ag 7 '42

Swift & co. slash salesmen's mileage; experiment with bicycles; minimum deliveries, fewer personal calls, more intensive use of the telephone, and doubling up with noncompetitive salesmen. il Sales Management 51:40-1 Ag 1 '42

Tested tools for managing men; what they are, how they work. B. Bigelow. Sales Management 49:20-4 N 1; 24-6, 28 N 15; 37-8, 40, 42-4 D 1 '41

These 12 ideas help salesmen to be useful in wartime. C. Norton. Ptr Ink 199:20+ My 22 '42

13 ways to keep in touch with the trade with few or no salesmen. E. Peterson. Ptr Ink 198:22-3, 77-9 F 13 '42; Abstract. Management R 31:94-6 Mr '42

This sales coordination plan puts company in sweet spot; Thorson system, Warner-Patterson co. motor test equipment and automotive chemical specialties. Sales Management 50:52-5 Ja 15 '42

Transportation crisis. R. Bill. Sales Management 50:56-60+ My 15 '42

What kind of selling can we expect after the war? E. Whitmore. Am Business 12:14-16 Ap '42

What to do about salesmen with little or nothing to sell. A. E. Dodd. Ptr Ink 198: 46+ Ja 16 '42

What will you do for a sales force when the war ends? basis of a program to make former salesmen want to come back. A. W. Sullivan. Ptr Ink 200:13-14, 38+ Ag 28 '42

When there's not much to sell, what else can salesmen do? G. K. Bennett and R. A. Fear. il Adv & Sell 35:13-14+ Mr '42

Why Studebaker has refused to scuttle its factory field force. K. B. Elliott. Sales Management 50:16-18 Ap 20 '42

With nothing to sell, now, these salesmen study product and make market surveys; pre-fabricated house manufacturer; Homasote company, Trenton, N.J. F. V. Wilson, jr. Ptr Ink 198:17-18+ F 20 '42

Work for the salesman with nothing to sell; sales executives tell of services. Oil Paint & Drug Rep 140:6-7+ N 17 '41

See also

Advertising
Automobiles, Salesmen's
Complaints
Dealer helps
Display of merchandize
Gas companies—Salesmen
Marketing
Printing trade—Salesmen
Sales contests
Sales conventions
Sales departments
Sales manuals
Sales policies
Sales promotion
Sales records
Salesmanship
Salesmen
Salesmen's reports
Side lines

SALES managers
Please stay away from the customers. C. N. Tunnell. Ptr Ink 200:51-3 S 4 '42
What salesmen think of sales managers. H. R. Tosdal and R. M. Cunningham. 83p Sales managers club, Boston Chamber of commerce, Boston '42; Reviews. Adv & Sell 35: 46+ Jl '42; Management R 31:245-6 Jl '42

SALES managers clubs
Sales managers build season's activities to assist war effort. Sales Management 51: 55-7 N 1 '42

SALES manuals
Seagram educates its men with comic strip lessons. il Sales Management 50:34 Ja 1 '42

SALES meetings. See Sales conferences; Sales conventions

SALES mergers. See Sales policies—Combination selling

SALES policies
Can we pull in our salesmen and save money? why it may be cheaper to keep salesmen on the job. J. A. Murphy. Am Business 11:24-5, 42 D '41
Department stores start fight on fake wholesale and retail sales outlets. Ptr Ink 197: 33-4+ N 14 '41
Do your wartime sales plans answer these 40 questions? Sales Management 50:44 My 15 '42
Federation girds for war, plans for peace, at biggest meeting of National federation of sales executives. Sales Management 50:56-7+ Je 15 '42
Fundamentals of selling; meeting consumer demand. R. G. Walters and J. W. Wingate. 4th ed 562p $1.68 South-western pub. co. '42
How Adel bucked big time competition selling to the aircraft industry. Sales Management 50:36-7 Ap 20 '42
How General Foods combats costs on an elevator, prices on skids; concentrating on better grade stores, pushing a few items at a time. A. S. Igleheart. Sales Management 49:47 D 1 '41
Joyce licks production peaks and valleys, then rations everybody; play shoes. J. H. Collins. il Sales Management 51:42-4 S 15 '42
Management's first duty: a sound grand strategy for sales. O. Lucas. Sales Management 49:18-20+ N 15 '41
Manufacturers in many fields pool opinions on 1942 sales planning. Sales Management 49:30-2 D 15 '41
Merchandising check list for war. Adv & Sell 35:42+ Ja '42
1942 sales policies for companies that are not oversold. Ptr Ink 198:13-14+ Ja 9 '42
No cars to sell, auto industry will exploit service to the limit. il Sales Management 50:58-60 F 15 '42
Plan that cut credit period; reduced average account from 120 to 60 days. R. McDaniel. Credit & Fin Management 44:39 Ja '42
Revamped sales policies, radio advertising, hike sales for Eversharp. M. L. Straus. il Sales Management 51:25-6 Jl 15 '42
Sales management during this national crisis. B. Bigelow. Dun's R 49:20-4+ D '41
Sales manager's job in England today. W. K. Fudge. il Sales Management 50:24-6 F 1 '42
Selling in a war economy; what constitutes a desirable retail outlet; Coopers, inc. Kenosha, Wis. K. J. Krause. Credit & Fin Management 44:5-6+ My '42
Shulton toiletries' war program: nimble package changes, more ads. W. L. Schultz. il Sales Management 50:26, 30 My 15 '42
Survey shows how business is cutting waste in sales department operation; 22 major ways. P. Salisbury. Sales Management 50: 20-2 Je 1 '42
To sell, or not to sell? J. W. McPherrin. Ptr Ink 197:9-10, 76+ N 28 '41
Trend is toward fewer calls, larger orders, in general merchandise jobbing field. P. Salisbury. Sales Management 50:42-4 Mr 15 '42
Wartime shortages; their effect on civilian industries. R. L. Leger. il Dun's R 50:13-17 Ap '42
Why Acme outsells 200 competitive brands of beer in California. K. F. Schuster. il Sales Management 49:18-20 D 15 '41

See also
Advertising policies
Canvassing
Catalogs
Christmas business
Complaints
Credit
Dealer helps
Dealer relations
Discount, Cash
Display of merchandize
Instalment plan
Jobbers
Marketing
Premiums (merchandizing)
Price fixing
Price policies
Private brands
Products, Improved
Sales management
Sales promotion
Salesmen and credit
Samples (merchandizing)
Side lines

Combination selling

Carrier distributes allied lines to keep dealers in business. Sales Management 50:22+ Je 1 '42
Sales forces get substitute lines. Adv & Sell 35:53 Je '42
Why Heinz and Sun-Maid merged their selling. H. L. Scott. Adv & Sell 35:22 N '42

Free trial

Use of textile machinery beyond trial period as acceptance. L. Childs. Rayon 23:52 Ja '42

Selective selling

Advertising programs for products with selected distribution; an analytical study of the place of general advertising, dealer cooperative advertising, and dealer helps in promotional programs. J. D. Scott. 112p pa $1.50 Harvard univ, Graduate school of business administration, Bur. of business research, Boston, Mass. '42
First steps in reducing sales costs; classifying customers. E. Whitmore. Am Business 12:12-13+ Jl '42
Selective selling and the war; abstract. C. H. Sevin. Management R 31:56-8 F '42

SALES portfolios. See Salesmen's portfolios

SALES promotion
Advertising managers find many leaks as war causes them to economize; field survey departments. P. Salisbury, ed. Sales Management 50:70-1 Je 15 '42
Bullard emphasizes new products with newspaper stunt. il Ind Marketing 26:38+ D '41
Chek-Chart's package service keeps cars rolling profitably; putting former free services into a paid-for group. R. Shaw. Sales Management 50:42-3 My 15 '42
Clepaco promotional service. Paper Tr J 114:17 Ja 8 '42
Dealer, consumer education takes sag out of cigar sales curve. il Sales Management 49:50, 52 D 15 '41
Disston conservation control plan is farvisioned effort. il Ind Marketing 27:20-1+ Mr '42
Door-to-door eclat. Business Week p68+ Jl 18 '42
Help-retailers-sell plan builds 40,000,000-a-year pattern volume; Simplicity pattern company. il Sales Management 50:56-8 Ja 15 '42
How to promote the sale of your wares through the dime stores. F. W. Nye. il Sales Management 51:22-4 S 15 '42
Industry's war on waste of time, labor and materials exemplified in Disston's campaign; cards instruct in care and use of tools. W. Gebhart. Ptr Ink 198:19-20 F 13 '42
McMillen Mills first educates farmers; sales follow naturally. Sales Management 51:46+ O 20 '42
Practical ideas for contacting customers between sales calls. L. Valenstein. Sales Management 49:46+ N 15 '41
Promotion finesse that keeps fashion buyers coming back for more; Daniel Hays gloves. il Sales Management 50:50, 54-5 F 15 '42
Promotion programs assume form of training within industry. il Ind Marketing 27:44+ Je '42

SALES promotion—*Continued*

Puppet rodeo that sold Levi Strauss work clothes now boosts war bonds. R. P. Cronin. il Sales Management 50:28, 31+ My 1 '42

Salesmen's club wins jobber push for Miller lighting equipment. il Sales Management 49:56+ D 1 '41

Sellers' market? then we push harder, says Printz-Biederman. il Sales Management 51: 58 S 15 '42

Soft-spoken promotion widens markets for ethical products; S. H. Camp & co. scientific supporting garments. il Sales Management 50:28, 30, 32 Ja 15 '42

Tailoring sales and promotion programs to meet wartime needs; Westinghouse. J. M. McKibbin. il Ind Marketing 27:16-17+ Ap '42

Three men and 1,100 women run this business; Welcome wagon service co. plan for local and national advertisers to deliver samples and other advertising material to brides, new mothers, and newcomers. Am Business 12:37 Ja '42

What builds the box office "buy" for a typical motion picture? R. M. Gillham. il Sales Management 49:20-2 D 1 '41

See also

Advertising campaigns—Special weeks

Exhibits, Traveling

Instruction in use of product

Premiums (merchandizing)

Sales campaigns

SALES promotion departments

Promotion efforts more and more devoted to speeding war production. il Ind Marketing 27:50, 54, 56 Ag '42

SALES records

Keep sales records in writing. A. M. Sullivan. Ptr Ink 199:56 My 1 '42

SALES research

Sales-testing thrives in today's market. F. R. Coutant. Adv & Sell 35:46+ Mr '42

See also

Market research

SALES statistics

Retail credit survey, 1939. M. L. Merriam. map U S Bur For & Dom Com, Domestic Commerce Ser 112:1-193; pa 20c Supt. of doc. '41

Wholesalers' sales and inventories, January 1942. Credit & Fin Management 44:48 Mr '42 [cont monthly]

SALES tax

Advocates sales tax for more revenue. R. A. Taft. Comm & Fin Chr 156:719 Ag 27 '42

Federal sales tax. E. R. Nichols and C. Wallis, comps. Ref Shelf v 15, no 10:1-259 bibliog(p241-59) '42 ($1.25)

Inclusion of sales tax in revenue measure by House committee regarded as probable. Comm & Fin Chr 155:1445 Ap 9 '42

Louisiana revives sales tax as war measure. Comm & Fin Chr 156:1344-5 O 15 '42

Lower sales taxes. Business Week p50 D 6 '41

Price ceiling and taxation. P. Haensel. Trusts & Estates 74:560-1 Je '42

Pro, con federal sales tax; Morgenthau opposes as severe burden to lowest income group. Comm & Fin Chr 155:1150-1 Mr 19 '42

Real estate group opposes federal sales tax; urges co-ordination of entire tax structure. Comm & Fin Chr 155:1446 Ap 9 '42

Retail dry goods assn, for retail sales tax. Comm & Fin Chr 156:539 Ag 13 '42

Retail sales taxation in Michigan. R. S. Ford and E. F. Shepard. 20p pa 10c Bur. of government, Univ. of Michigan, Ann Arbor '41

Roosevelt, CIO oppose federal sales tax. Comm & Fin Chr 155:1452 Ap 9 '42

Sales tax dilemma. Business Week p96 Mr 14 '42

Sales tax in revenue measure now held uncertain; induced savings urged. Comm & Fin Chr 155:1541 Ap 16 '42

Sales tax urged by N.Y. Chamber of commerce before Senate committee. Comm & Fin Chr 156:542 Ag 13 '42

Sales tax with minimum exemption. Trusts & Estates 75:207-8, 335 S-O '42

Sales tax—yes or no? J. P. Broderick. Barron's 22:7 Mr 23 '42

Says sales tax offers advantages in wartime. M. A. Linton. Comm & Fin Chr 155:1784 My 7 '42

State sales tax collections now leveling off. Comm & Fin Chr 156:8 Jl 2 '42

State sales taxes ruled deductible from federal tax. Comm & Fin Chr 156:976 S 17 '42

Supreme court holds states may tax defense contracts. Comm & Fin Chr 154:1219 N 27 '41

Theory of incidence of sales taxation. J. F. Due. 257p bibliog(p245-50) pa $2.25 Kings crown press, New York '42

Uncle Sam pays; ruling by Supreme court makes cost-plus contractors liable for state sales taxes. Business Week p20 N 15 '41

Where tax policy is needed. H. S. Bloch. Trusts & Estates 74:357-9 Ap '42

See also

Spending tax

Stock transfer tax

SALES units

Milk by half gallon; Safeway chain. Business Week p60-1 N 15 '41

SALESMANSHIP

Can we pull up the slack in selling? E. Whitmore. Am Business 12:20-2 My '42

Elmer goes to war; shortcomings in our salesmanship. Business Week p61-4 F 7 '42

Faced with product cuts, Necco pounds at man power efficiency; New England confectionery co. concentrates on showing salesmen how to do a better job. il Sales Management 50:42-3 My 1 '42

Florida salesmen outwit gas and tire shortage with bus caravan; twenty-five competing representatives staging big joint merchandise exhibitions. Sales Management 51:42-3 O 1 '42

Fundamentals of selling; meeting consumer demand. R. G. Walters and J. W. Wingate. 4th ed 562p $1.68 South-western pub. co. '42

Gas service manual; good sales principles. W. L. Riehl. Gas Age 90:29-30 S 10 '42

Gas service manual; miscellaneous sales hints. W. L. Riehl. Gas Age 90:27-8 S 24 '42

Gas service manual; selling your service. W. L. Riehl. Gas Age 90:26-7 Ag 27 '42

Gypsum lays siege to replacement roofing market with 9-lb. sales plan. il Sales Management 50:22-4 My 15 '42

How to sell and win through coordinated demonstration, illustration and explanation. J. Maratta. 63p $1.50 James Maratta, 225 W. 34th st, New York '41

How to sell successfully. N. B. Bowman. 135 numb l $2 The author, Temple univ, Philadelphia '41

Human instincts, impulses key to successful sale; study of Mark Anthony's funeral oration in Shakespeare's Julius Caesar. F. J. Parry. Nat Underw 46:23 O 22 '42

In those days there were no automobiles for salesmen! but territories were covered, goods were sold. A. H. Deute. il Ptr Ink 200:13-14+ Ag 21 '42

Informative selling. R. Wolcott. 88p $1 Nat. consumer-retailer council, 8 W. 40th st, New York '41

Keep that high pressure gleam out of your eye. Comm & Fin Chr 154:1114 N 20 '41

Making better salesmen. R. W. Coleman. 52p pa 35c Ryerson press '41

Many good salesmen are being ruined by this war; 10 danger points to watch. C. Norton. Ptr Ink 199:22, 24 Ap 17 '42; Same abr. East Underw 43:36 pt 2 My 15 '42

Principles of selling. H. K. Nixon. 2d ed 361p bibliog(p345-50) $2.50 McGraw-Hill '42

Sales problems in the emergency. W. E. Landmesser. Refrig Eng 43:12-14 Ja '42

Salesman's frame of mind in 1942. C. S. Kauffman. Ptr Ink 198:40, 45+ Ja 2 '42

Salesmanship. C. H. Fernald. 3d ed 533p $5; to schools $3.75 Prentice-Hall '42

Selling. E. G. Blackstone, C. C. Crawford and E. Grinnell. 338p bibliog(p330-3) $1.60 Heath '42

SALESMANSHIP—*Continued*

Selling home furnishings; a training program. R. R. Rau and W. F. Shaw. il diags U S Office of Educ Vocational Div Bul 216, Business Educ Ser 14:1-275 bibliog(p250-1) '41

Selling to today's customer. N. Kneeland, L. Bernard and G. B. Tallman. 413p bibliog(p407-8) $1.76 Ginn '42

Short sales presentation is usually most effective. Comm & Fin Chr 154:1207 N 27 '41

Streamline your selling. M. O. Maughan. 93p bibliog(p94) $2.50 Olsen pub. co. 505 W. Cherry st, Milwaukee, Wis. '42

Suggestions for simplifying wartime selling procedure. G. E. Stedman. il Ind Marketing 27:27-9 O '42

Ten demandments of selling. J. Mentzel. 57p $1 Manthorne & Burack, 30 Winchester st, Boston '42

Tested direct selling. E. Wheeler and E. W. Proctor, jr. 145p $2 Prentice-Hall '42

True story that carries a lesson in salesmanship! Comm & Fin Chr 155:322 Ja 22 '42

War presents greater opportunities for salesmanship. P. W. Combs. Ind Marketing 27:34+ F '42

We all like a little flattery; some ways to do it. Comm & Fin Chr 155:1327 Ap 2 '42

What makes the best salesmen best? pictograph. Sales Management 50:31 Mr 15 '42

You and your dealers: a memo for salesmen about morale. B. Crowell. Sales Management 50:33 Ap 1 '42

See also

Advertising
Advertising, Soliciting of
Advertising and salesmen
Business
Buying habits
Canvassing
Insurance, Life—Agents
Insurance agents
Mail order business
Marketing
Merchandizing
Package goods
Sales contests
Sales conventions
Sales letters
Sales management
Salesmen
Samples (merchandizing)

Approach

Before you tackle the new prospect. E. Whitmore. Am Business 11:29-30 D '41

Suggestions for simplifying wartime selling procedure. G. E. Stedman. il Ind Marketing 27:27-9 O '42

Demonstrations

Miniature demonstrator builds sales for Yawman & Erbe mfg. co, Rochester, N.Y. il Sales Management 50:61 Ja 15 '42

See also Department stores—Manufacturers' demonstrations

Graphic aids

Graphic aids help get over technical points to busy executives; Cochrane corporation. W. C. Bennett. il Ind Marketing 27:32-3 N '42

Service

Classes for farmer conducted by salesmen; McMillen feed mills. Ptr Ink 200:62+ S 25 '42

How Crane is helping customers untangle the priorities mess. il Sales Management 49:54+ N 15 '41

How the advertising man can help keep equipment going; plantwise service information. W. E. Irish. Ind Marketing 27:29-30+ Ag '42

Income tax an opportunity for opening new accounts. Comm & Fin Chr 155:414 Ja 29 '42

Plymouth Cordage shows buyers how to carry on under priorities. E. G. Roos. il Sales Management 50:40-2 Mr 15 '42

These 12 ideas help salesmen to be useful in wartime. C. Norton. Ptr Ink 199:20+ My 22 '42

Tool industry keeps its salesmen: they've become bottleneck busters. il Sales Management 50:62-4 F 15 '42

Washroom paper economy is advertised as war measure; Scott paper company, oversold, organizes fight on waste. il Ptr Ink 199:12-13 Ap 17 '42

Work for the salesman with nothing to sell; sales executives tell of services. Oil Paint & Drug Rep 140:6-7+ N 17 '41

Standardized sales talk

This packaged sales story sells jobbers on pushing full line; Manning, Maxwell & Moore's visual presentation. L. H. Brendel. il Sales Management 50:36-9 Ja 1 '42

Study and teaching

See also Salesmanship, Retail—Study and teaching

Telephone contacts

Can you sell over the telephone? valuable tool for securities salesman. Comm & Fin Chr 155:102 Ja 8 '42

SALESMANSHIP, Retail

How customers want salespeople to serve them. C. W. Aronow and O. P. Robinson. J Retailing 18:5-9 F '42

How much do you know about retail salesmanship? J Retailing 18:56, 64 Ap '42

Informative selling. R. Wolcott. 88p $1 Nat. consumer-retailer council, New York '41

Store salesmanship. N. A. Brisco, G. Griffith and O. P. Robinson. rev ed 472p $2 Prentice-Hall '42

Successful retail salesmanship; helping customers buy. O. P. Robinson and C. H. Robinson. 356p $5; school ed $3.75 Prentice-Hall '42

Tested retail selling. E. Wheeler. 180p $2.50 Prentice-Hall '41

See also

Salesmen, Retail

Study and teaching

Classes in distributive education ask selling helps from manufacturers. Sales Management 49:24-6, 28+ D 15 '41

Public schools now train salesmen through distributive education plan, provided by George-Deen act. E. J. Hegarty. Ptr Ink 197:27, 30, 32 D 12 '41

SALESMEN

Ex-salesmen at home office for duration. Ptr Ink 199:21 My 29 '42

How salesmen may contribute to company's war effort. W. S. Acuff, jr. Ptr Ink 198:50 F 20 '42

How to analyze sales ability; self-analysis. Sheet Metal Worker 33:31 Mr '42

Jobless salesmen become war production expediters; U.S. employment service at Toledo formulated instruction course. E. J. Bodette. Ptr Ink 199:15-17, 59 My 1 '42

Marketing pictographs; selected findings from Tosdal and Cunningham's "What salesmen think of sales managers." Sales Management 50:37-9, 42, 44 Je 15 '42

More letters will save more tires; salesmen as letter writers. C. P. FitzPatrick. diag Ind Marketing 27:32, 35+ Jl '42

No let-up in industrial selling effort now, sales executives declare; oversold sales forces have useful and logical tasks. Ptr Ink 200:15-16+ S 11 '42

Personality in sales. A. Secord. Paper Ind 23:1124+ F '42

Salesman into expediter; Cadillac motor car salesman. Adv & Sell 35:102 N '42

Salesmen that please. K. Hampton. Elec West 88:78 Je '42

Selling problems, today and tomorrow. K. H. Mathus. Ptr Ink 199:50+ Ap 24 '42

Shortages have to be sold, and it takes salesmen to do it. Sales Management 50:68+ F 15 '42

32-point victory program helps salesmen to help win war. Ptr Ink 199:19-20+ Ap 17 '42

Tool industry keeps its salesmen: they've become bottleneck busters. il Sales Management 50:62-4 F 15 '42

Utilizing salesmen in wartime. Sheet Metal Worker 33:40 O '42

SALESMEN—*Continued*

What salesmen think of sales managers. H. R. Tosdal and R. M. Cunningham. 83p Sales managers club, Boston Chamber of commerce, Boston '42; Reviews. Adv & Sell 35:46+ Jl '42; Management R 31:245-6 Jl '42

What will you do for a sales force when the war ends? basis of a program to make former salesmen want to come back. A. W. Sullivan. Ptr Ink 200:13-14, 38+ Ag 28 '42

When there's not much to sell, what else can salesmen do? G. K. Bennett and R. A. Fear. il Adv & Sell 35:13-14+ Mr '42

Within 60 days salesmen were all at work in factory on war jobs; Troy Laundry Machinery. il Ptr Ink 200:22+ Ag 21 '42

See also

Advertising, Soliciting of
Advertising and salesmen
Canvassing
Drivers as salesmen
Gas companies—Salesmen
Insurance, Life—Agents
Insurance agents
Printing trade—Salesmen
Purchasing—Treatment of salesmen
Sales contests
Sales conventions
Sales management
Salesmanship

Advance cards and letters

Here's a persuasive way to say let our salesman call. Sales Management 51:59 Jl 15 '42

Bonuses

Necco bonus provides incentive, wins push for long-profit items; New England confectionary co. H. R. Chapman. Sales Management 50:26+ F 15 '42

Expenses

Caravaning for sales; pooling of 25 salesmen's resources in Florida. R. H. Cooper. il Adv & Sell 35:36+ N '42

Keeping down salesmen's expenses. Management R 31:137-8 Ap '42

See also

Automobiles, Salesmen's

Law

N.Y. state salesmen are under unemployment act. East Underw 43:6 S 25 '42

Regulation of commercial travellers' conditions of employment in Switzerland. Int Labour R 44:703-5 D '41

Rating

How to appraise sales personnel. V. Steward. 36p pa $1 Verne Steward & associates, 5471 Chesley av, Los Angeles '42

Routing

How to revise salesmen's travel schedules under gas rationing. R. E. Runzheimer. map Sales Management 51:18-20 O 20 '42

Rumford cuts 128,222 miles from sales routes; sales trend up. Sales Management 51:48+ S 1 '42

27% gas and tire saving made by changing sales routes. B. Bigelow. Ptr Ink 200:17-18 Jl 3 '42

Weco shows men how to make more money with less travel. J. R. Roller. Sales Management 51:20-2 N 1 '42

Salaries and commissions

Incentive factors we built into our salesman's payment plan. R. L. Barrett. Sales Management 51:48 O 20 '42

Sales compensation during wartime. E. G. Roos. Adv & Sell 35:62+ Ap '42

Uncollectible advances to salesmen. J Account 73:83-4 Ja '42

Wartime changes in salesmen's compensation. Management R 31:288 Ag '42

Selection

Need more salesmen? try this way of getting them. Sales Management 50:62 Ja 15 '42

Selection chart for salesmen. Management R 30:414-15 N '41

See also

Insurance, Life—Agents—Selection

Service

See Salesmanship—Service

Training

Dr Pepper builds for tomorrow with circus of selling. il Sales Management 50:22 Mr 15 '42

Factory sales training folders help both veterans and novices; Manning, Maxwell & Moore. L. H. Brendel. Sales Management 51:52 Ag 15 '42

How to train salespeople. J. H. Dillon. 15v Am. technical soc, 850 E. 58th st, Chicago '42

In training salesmen, phonographic recordings are often highly useful. B. R. Canfield. Ptr Ink 197:49-50, 53-4, 56 N 14 '41

Modern kitchen bureau sales training films prove valuable to utilities. Edison Elec Inst Bul 9:467-8 N '41

Tested tools for managing men: what they are, how they work. B. Bigelow. il Sales Management 49:24-6, 28 N 15 '41

This sales coordination plan puts company in sweet spot; Thorson system, Warner-Patterson co. motor test equipment and automotive chemical specialties. Sales Management 50:52-5 Ja 15 '42

Training field men for today and tomorrow; Manning, Maxwell & Moore. H. A. Haniford. il Ind Marketing 27:24-5+ N '42

Training problems we are solving with sales talk recordings. R. V. Davis. Sales Management 50:44+ Ja 15 '42

See also

Insurance, Life—Agents—Training
Sales manuals
Salesmen, Jobbers'—Training
Salesmen, Retail—Training

Transportation

Caravaning for sales; pooling of 25 salesmen's resources in Florida. R. H. Cooper. il Adv & Sell 35:36+ N '42

How to revise salesmen's travel schedules under gas rationing. R. E. Runzheimer. map Sales Management 51:18-20 O 20 '42

Transportation crisis. R. Bill. Sales Management 50:56-9 My 15 '42; Abstract. Management R 31:209-10 Je '42

SALESMEN, Jobbers'

Hobby club builds jobber good-will for industrial manufacturer. L. H. Brendel. il Ptr Ink 198:15 Ja 30 '42

How to work with jobber's salesmen. J. Ungar. Ptr Ink 197:56-8, 60 D 5 '41

Jobbers' salesmen remain important when manufacturer is without goods to sell; basic theme in trade press holds their good-will, Aluminum goods mfg. co. R. L. Pritchard. il Ptr Ink 200:40-1 Jl 3 '42

Salesmen's club wins jobber push for Miller lighting equipment. il Sales Management 49:56+ D 1 '41

What kind of selling can we expect after the war? E. Whitmore. Am Business 12:14-16 Ap '42

Training

Fixt Foods shows jobbers how to sell to institutional customers. L. Wall. il Sales Management 50:48+ Ja 15 '42

SALESMEN, Missionary

Ten things to do about fake missionary orders. W. B. Stewart. Sales Management 49:60-1 D 15 '41

SALESMEN, Retail

Retail sales workers. A. V. Keliher, ed. 56p $1 Harper '41

Stores hunt help. Business Week p68 O 3 '42

Types of salespeople. O. P. Robinson. il J Retailing 18:10-14+ F '42

See also

Salesmanship, Retail

SALESMEN, Retail—*Continued*

Training

Chrysler Airtemp trains retail salesmen by mail. C. J. Swan. Ptr Ink 197:15-17 N 28 '41

Green retail clerks: what to do about them, and how to do it. J. C. Cumming. Sales Management 51:46, 48-9 S 15 '42

How Eaton Paper trains dealers' inexperienced sales personnel. Sales Management 51:24 O 1 '42

Public schools now train salesmen through distributive education plan, provided by George-Deen act. E. J. Hegarty. Ptr Ink 197:27, 30, 32 D 12 '41

See also Salesmanship, Retail—Study and teaching

SALESMEN, Specialty

Art of finding and managing specialty salesmen. J. Maratta. 103p $2.50 James Maratta, 225 W. 34th st, New York '41

Rent-a-salesman; service launched as subsidiary of station WLW. Business Week p55-6 Mr 7 '42

SALESMEN, Treatment of. See Purchasing—Treatment of salesmen

SALESMEN and advertising. See Advertising and salesmen

SALESMEN and credit

Credit problem in sales; talk to salesmen in the flour industry. Credit & Fin Management 43:28-30 D '41

14 questions to ask salesmen; a plan used to revise credit files periodically. W. J. Claussen. Credit & Fin Management 44:16-17+ S '42

How'm I doin? a credit manager gets a rating on himself. H. E. Bucher. Credit & Fin Management 44:16-18+ O '42

Plan that cut credit period; reduced average account from 120 to 60 days. R. McDaniel. Credit & Fin Management 44:39 Ja '42

SALESMEN'S automobiles. See Automobiles, Salesmen's

SALESMEN'S equipment

All-America package competition; award to Marsh wall products, inc.; sales-sample kit for promoting Marlite, pre-finished wall paneling. il Mod Packaging 15:174-5+ Ap '42

Cochrane unifies flow meter sales story with visual presentation. W. C. Bennett. il Sales Management 51:55-7 Ag 15 '42

Sales sample kit is profitable promotion job for building materials; Marlite, pre-finished wall paneling. il Ind Marketing 27:48, 50+ F '42

Sharp-edged sales tools carve out bigger orders. il Sales Management 49:24-5 D 1 '41

25-lb bag replaces car load of samples for Shelby men; Shelby sales book co. il Sales Management 51:32+ Ag 1 '42

SALESMEN'S magazines

"The hell we can't" holds salesmen and prepares for postwar business; Mesker brothers' idea exchange. J. B. G. Mesker. il Ind Marketing 27:19-21 N '42

SALESMEN'S portfolios

How Armstrong converted its sales set-up for war times. A. R. Hahn. il Sales Management 51:18-21 O 1 '42

How Washburn-Wilson is cashing the demand for dried legumes. J. S. Nelson. il Sales Management 51:42-4 O 20 '42

Some suggestions regarding the use of a portfolio. Comm & Fin Chr 155:754 F 19 '42

This packaged sales story sells jobbers on pushing full line; Manning, Maxwell & Moore's visual presentation. L. H. Brendel. il Sales Management 50:36-9 Ja 1 '42

SALESMEN'S reports

How much time for sales reports? pictograph. Sales Management 50:42 Je 15 '42

Salesmen keep in touch with home office by mailing dictation discs. Sales Management 50:45 F 15 '42

SALESMEN'S sample cases. See Sample cases

SALESMEN'S samples floater policy. See Insurance, Inland marine—Policies

SALESWOMEN

See also
Insurance, Life—Agents—Women agents

SALICYLALDOXIME

Separation and determination of lead with salicylaldoxime. W. B. Ligett and L. P. Biefield. Ind & Eng Chem Anal ed 13:813-15 N 15 '41

Separation of copper, lead, and zinc with salicylaldoxime. L. P. Biefeld and W. B. Ligett. bibliog Ind & Eng Chem Anal ed 14:359-61 Ap 15 '42

SALICYLATES

Fungicidal value of the salicylates. E. E. Clayton. Science 96:366 O 16 '42

SALICYLIC acid

Prices

Prices ceiled. Oil Paint & Drug Rep 141:3+ F 16 '42

SALICYLYL disulfide

Preparation of acetylsalicylyl disulfide and salicylyl disulfide. B. Riegel and H. Wittcoff. bibliog Am Chem Soc J 64:1486-7 Je '42

SALIDA, Colorado

Railroads

Modernistic rail-bus station the talk of the town; new structure on the D. & R.G.W. il plans Ry Age 112:442-4 F 28 '42

SALIVA

Domestic water and dental caries; effect of increasing the fluoride content of a common water supply on the lactobacillus acidophilus counts of the saliva. F. A. Arnold, jr., H. T. Dean and E. Elvove. bibliog Pub Health Rep 57:773-80 My 22 '42

Analysis

Microgasometric determination of nitrogen in blood and saliva. P. F. Scholander. diags R Sci Instr 13:362-4 Ag '42

SALMON

Bad salmon year. Business Week p62+ My 9 '42

Plant mechanization helps war effort; cooling and conveying equipment in Bristol Bay salmon canneries. M. E. Bridston. il Food Ind 14:50-1 O '42

Return of a marked salmon from a distant place. A. G. Huntsman. bibliog Science 95: 381-2 Ap 10 '42

Salmon pack in British Columbia, 1941; with comparisons for 1936 and 1937. For Comm W 5:22 N 22 '41

SALMONELLA typhi murium

Studies of the acute diarrheal diseases; an outbreak due to salmonella typhi murium. W. E. Mosher, jr. and others. bibliog Pub Health Rep 56:2415-26 D 19 '41

SALT

Calculation of the thermodynamic properties and the association of electrolyte solutions. G. Scatchard and L. F. Epstein. bibliog Chem R 30:211-26 Ap '42

Chlorine and salt cake from salt and sulfur. A. W. Hixson and A. H. Tenney. bibliog diags Ind & Eng Chem 33:1472-84 D '41

Conductance and ionic mobilities for aqueous solutions of potassium and sodium chloride at temperatures from 15° to 45°C. H. E. Gunning and A. R. Gordon. bibliog diags J Chem Phys 10:126-31 F '42

Density of sodium chloride; the atomic weight of fluorine by combination of crystal density and X-ray data. H. L. Johnston and D. A. Hutchison. Phys R 62:32-6 Jl 1 '42

Determination of sulfur; accuracy and precision of several methods. W. Rieman, 3d and G. Hagen. Ind & Eng Chem Anal ed 14:150-1 F 15 '42

Electrolytic sodium chlorate; preparation from aqueous sodium chlorid. S. S. Joshi and K. Srinivasan. Chem Age (Lond) 46: 305 Je 20 '42

SALT—*Continued*

Further studies on the use of salt for improving the quality of cream for buttermaking; abstract. F. E. Nelson, W. J. Caulfield and W. H. Martin. Food Ind 14:106 Ag '42

High intensity X-ray monochromator; rock salt crystals. P. Kirkpatrick. bibliog diag R Sci Instr 12:552-4 N '41

It's the little things that count; off-flavors, rancidity, etc. can often be traced to presence of minute quantities of metals, acting as catalysts. J. A. Dunn. Food Ind 14:41-4+ Ag '42

Oxidation of raw starch granules by electrolysis in alkaline sodium chloride solution. F. F. Farley and R. M. Hixon. bibliog il Ind & Eng Chem 34:677-81 Je '42

Saga of salt; Mathieson alkali works. flow charts il Chem Ind 50:184-93 F '42

Salt as a chemical raw material. C. D. Looker. il diags Chem Ind 49:594-601, 790-9 N-D '41

Salt-consuming industries of Niagara Falls. J. Searles. bibliog il map Chem & Eng N 20:997-1002 Ag 25 '42

Salt of the earth; history, uses, properties, etc. F. Kutnewsky. il Comp Air M 47:6733-6 My '42

Salt roads wear better, resist frost. Sci Am 167:26 Jl '42

Salt shatters snow and ice crusts. il Roads & Sts 85:57, 60 F '42

Salting it away by machinery. il Mod Packaging 15:84+ Ag '42

Salt's war bid; fire-bomb extinguisher, snow remover, weed killer. il Business Week p24 Ap 18 '42

Separation of lithium from potassium and sodium by treatment of the chlorides with higher aliphatic alcohols. E. R. Caley and H. D. Axilrod. Ind & Eng Chem Anal ed 14:242-4 Mr 15 '42

Sulfur dioxide as a raw material; chlorination of metal oxides with sodium chloride and sulfur dioxide. H. F. Johnstone and R. W. Darbyshire. bibliog diag Ind & Eng Chem 34:280-6 Mr '42

Surface tension of solutions of electrolytes as a function of the concentration; sodium chloride. G. Jones and W. A. Ray. Am Chem Soc J 63:3262-3 D '41

System ferric chloride-sodium chloride. H. F. Johnstone, H. C. Weingartner and W. E. Winsche. bibliog Am Chem Soc J 64:241-4 F '42

Variation of the transference numbers of sodium chloride in aqueous solution with temperature. R. W. Allgood and A. R. Gordon. J Chem Phys 10:124-6 F '42

Variation with temperature of the principal elastic moduli of NaCl near the melting point. L. Hunter and S. Siegel. bibliog il diag Phys R 61:84-90 Ja 1 '42

Analysis

Distribution of salt in butter; a volumetric micromethod. C. L. Ogg and others. diags Ind & Eng Chem Anal ed 14:285-6 Mr 15 '42

Manufacture

Developments in Lake Texcoco; Caracol process produces salt and other sodium compounds, potash, etc. A. R. Gerstel. il Chem & Eng N 20:1300-2 O 25 '42

Therapeutic use

Hot weather health; use of salt for heat cramps. Nat Safety N 45:157-8+ Mr '42

How to avoid heat sickness. Steel 111:78 Ag 3 '42

Prevention of heat sickness. Min Cong J 28:25 Ag '42

Salt of the earth as a weapon to fight heat fatigue and sickness. Safety Eng 83:40, 42 Je '42; Same abr. Foundry 70:121 Je '42; Same cond. Mach 48:188 Je '42

Salt speeds production. Blast F & Steel Pl 30:702-3 Je '42

Salt vital to worker. Metal Finishing 40:354 Jl '42

SALT cake. See Sodium sulfates

SALT domes

Typical oil-field structures, salt dome, Esperson and Barbers Hill, coastal Texas. diags map Oil & Gas J 41:42-3 Ag 6 '42

SALT industry and trade

Salt output checks outlawed by F.T.C. Oil Paint & Drug Rep 140:3+ N 17 '41

Statistics

Salt as a chemical raw material. C. D. Looker. il diags Chem Ind 49:790-9 D '41

Salt output up; production figures, 1940 and 1941. Oil Paint & Drug Rep 141:33 Je 22 '42

Canada

Salt industry in Canada, 1941. 6p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Cuba

Cuba's salt industry and trade. For Comm W 8:22 Jl 11 '42

SALT mines and mining

Salt as a chemical raw material. C. D. Looker. il diags Chem Ind 49:594-601 N '41

SALTER, Robert Mundhenk, 1892-

Plant industry bureau chief. por Oil Paint & Drug Rep 141:3+ Ap 20 '42

SALTPETER, Chile. See Sodium nitrate

SALTS

Reduction of iodate and bromate at the dropping mercury electrode in neutral and basic media and the effects of salts upon the current-voltage curves. E. F. Orlemann and I. M. Kolthoff. Am Chem Soc J 64:1970-7 Ag '42

Salt in irrigation water. R. A. Hill. diags Am Soc C E Proc 67:975-90 Je '41; Discussion. 67:1385-8, 1490-6, 1957-67 S-O, D '41

See also

Chlorides
Crystallization
Electrolytes
Halides
Ionization, Electrolytic
Nitrates
Phosphates
Salt
Silicates
Sulfates

SALTS, Complex

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

Configuration of complex kojates formed with some transition elements as determined by magnetic susceptibility measurements. J. W. Wiley, G. N. Tyson, jr. and J. S. Steller. Am Chem Soc J 64:963-4 Ap '42

SALTS, Quaternary

Amino-derivatives of pentaerythritol; the formation and thermal decomposition of some quaternary salts of tetrakisdimethylaminomethylmethane. G. M. Gibson and F. G. Mann. Chem Soc J p175-81 F '42

Some quaternary salts containing aryloxyethyl and aryloxypropyl groups. W. S. Ide, R. Baltzly and J. S. Buck. Am Chem Soc J 64:2234 S '42

SALTS in sea water. See Sea water

SALVADOR

See also

Coffee trade—Salvador

Economic conditions

El Salvador weathers the storm. il For Comm W 8:3-5+ S 19 '42

News by countries (cont). For Comm W 5:13 N 29 '41; 6:16-17 Mr 28; 7:14 Ap 25; 14-15 My 30; 16-17 Je 27; 8:16-17 Ag 1 '42

SALVAGE

Abandonment of ship by master did not dissolve contract of service. Weekly Underw 147:862-3 O 10 '42

Canada plans to recover cargoes of sunken ships. Weekly Underw 147:407 Ag 22 '42

SALVAGE—*Continued*

Difficult salvage job performed on Atlantic's oil tanker. E. H. Blum. Oil & Gas J 41:63 My 21 '42; Same. il Marine Eng 47:124-5 Je '42

Salvage award denied crew of Albionic; members bound to render services with no compensation beyond contract of employment. Weekly Underw 146:899 Ap 18 '42

Salvage of U.S.S. Lafayette. il diag supp Engineer 174:126-8 Ag 14 '42

U.S.S. Lafayette may be salvaged. il Marine Eng 47:126-8, 130 Je '42

SALVAGE (fires)

Fall River salvage reported $3,000,000. Nat Underw 46:1 N 5 '42

SALVAGE (merchandize)

Insurance salvage is not subject to OPA ceilings. Nat Underw 46:1 My 21 '42

SALVAGE (waste, etc.)

American industries form salvage committee. Comm & Fin Chr 156:287 Jl 23 '42

Better pulling methods permit greater recovery of casing. D. H. Stormont. il Oil & Gas J 40:54-5 N 27 '41

Big push on scrap; general salvage and fats and oils drives. Business Week p20 Je 27 '42

Building 1,500-kva. sub from salvaged material; Cambridge (Mass.) electric light company. il Elec W 117:1875 My 30 '42

Bullard co.'s reclamation operations recover large amounts of metal. Steel 110:104+ My 18 '42

Bullard's new reclamation system. R. D. Bullard. flow diag il diag Automotive & Aviation Ind 87:44-5+ Jl 15 '42; Same, without diags. Factory Management 100:107-8 Ag '42

California petroleum industry's salvage program. S. Fox. il Pet Eng 13:135-6, 138 S '42

Call to rayon industry on conservation. W. C. Appleton. Rayon 23:514 S '42

Calling all scrap metals; mine operators urged to segregate and clean up any scrap piles. G. T. Weymouth. il Min Cong J 28:18-20+ My '42

Can it be used? Pittsburgh Coal salvage work. R. W. Mackensen. il Coal Age 47:56-9 S '42

Cash offer wins fast turn-in of old merchandise; Devoe & Raynolds company scrap collection drive for paint brushes. il Ptr Ink 200:46-7 S 4 '42

Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42

Champion mine's old stockpiles yield ore in emergency. il Eng & Min J 142:41 N '41

Cheat the scrap pile; reclamation of bus parts; San Antonio public service co. L. McInerny. il Bus Transportation 21:260-2 Je '42

Chip-handling system. M. E. Nevils. il Steel 111:84-5, 88 O 26 '42; Same cond. Automotive & Aviation Ind 87:11+ O 15 '42

Chromium recovery in basic openhearth. il Metal Prog 41:506-9+ Ap '42

Chromium recovery; various methods of treating patent effluent surveyed. Automobile Eng 32:35-7 Ja '42

Collecting waste materials; important aspect of war economy. Bankers M 144:150 F '42

Colored V's used to match machines and scrap metals in Wright salvage system. il Steel 110:59 My 4 '42

Condemn for scrap; unproductive buildings. Trusts & Estates 75:399 O '42

Conservation and reclamation of materials; papers read at 1941 A.S.M.E. annual meeting. Mech Eng 64:25-32 Ja '42

Conservation and salvage; Erie program. Mech Eng 64:134 F '42

Conservation plan for used chemical plant equipment; Monsanto chemical company. G. A. Yocum. Chem Ind 51:542-3 O '42

Conservation; portfolio of ideas and methods used by sound companies. il Am Business 12:21-36+ F '42

Conservation specialist speeds collection of scrap for Standard of California. il Nat Pet N 34:R152+ My 13 '42

Conserving aluminum scrap. J. St. Peter. il Aviation 41:99+ My '42

Detinning plants in 28 cities are listed. Iron Age 150:92H O 29 '42

Dollars from wastebaskets. il Am Business 12:30 Ap '42

Domestic rubber plantations; scrap rubber reclaimed. A. P. Peck. il Sci Am 167:105-7 S '42

Don't throw away anything but dirt; salvage and repair program for utilities. L. Ragle. il Elec W 117:2053-4 Je 13 '42

Efficient industrial salvage. F. P. Peters. il Metals & Alloys 16:249-52 Ag '42

Engineering aspects of industrial scrap salvage; papers read at meeting, New York, April 28. il diags Mech Eng 64:449-62 Je '42

Erie gets in the scrap; salvage campaign in Erie plants. il Factory Management 100:66-8+ F '42

Erie plan can help every industrial community to get in the scrap. il Steel 110:78-80, 82 Ap 13 '42

Fat salvage quotas. Soap & San Chem 18:39+ O '42

Finds 265,000 tons of scrap; General Motors' seven months' collection includes dies and tools; borings. il Steel 111:38+ S 21 '42

Flotation treatment of white water. E. N. Poor and H. A. Whitenight. bibliog diags Paper Tr J 114:21-4 F 26 '42

Fundamentals for getting in the scrap. M. M. Lee. il Ind Marketing 27:24 O '42

General Electric conserves defense material. Blast F & Steel Pl 30:143 Ja '42

German recovery of light metal scrap in two piston manufacturing plants. il Iron Age 149:54-8 Je 4 '42

Get in that scrap; cartoons. Am Mach 86:940-1 S 3 '42

Get in the scrap; national salvage program. il Textile World 92:61-2 Ag '42

Get in your scrap! here's how to do it. il Food Ind 14:55+ N '42

Getting in the scrap. Barron's 22:8 O 12 '42

Getting in the scrap. C. H. Vivian. il diag Comp Air M 47:6801-7 Ag '42

Gold in the scrap pile; how to handle such scrap so that it attains its full usefulness; Westinghouse electric & manufacturing company. R. Schmidt. il Factory Management 100:100-1+ S '42

Golf balls to be recovered for further use. Sci Am 166:295 Je '42

Harvester salvages worn machines in special shop. il Steel 110:38 Je 8 '42

How Conservation division plans to collect 17,000,000 tons of scrap in six months. il Steel 111:50-1 Ag 3 '42

How to handle salvage programs. R. Schmidt. Advanced Management 7:130-2 Jl-S '42

How to operate salvage departments; Westinghouse electric & mfg. co. R. Schmidt. flow sheet Iron Age 149:56-60 Mr 26 '42

How to organize a scrap and salvage campaign; Henry Disston & sons. S. H. Disston. il Mach 49:182-4 S '42

How to organize and carry out a factory scrap campaign. il Marine Eng 47:262-5 O '42; Same. Heating-Piping 14:607-8 O '42

How to salvage tin cans effectively. Eng N 129:635 N 5 '42

How to set up a salvage system; abstract. Management R 31:313-14 S '42

Importance of salvage to the war effort. C. Grandy. Am Water Works Assn J 34:1367-73 S '42

Increasing recovery from aluminum scrap. Steel 110:85 Mr 2 '42

Industrial concern conducts salvage campaign in home community; Lukens steel co. Heating-Piping 14:476 Ag '42

Industrial salvage campaign aimed at all dormant material. il Steel 110:51 Je 15 '42

Lead from skeet grounds. Business Week p36 Je 6 '42

Looked again for scrap; first clean-up was just a starter at Carrier. G. H. Anglin. il Factory Management 100:83-4 O '42

SALVAGE (waste, etc.)—*Continued*

Machines must work for war or scrap! Rochester gas and electric corp. found 2150 tons of scrap by a thorough and systematic survey. E. B. Robinson. il Power 86:723-5 O '42

Major companies adopt strong wartime conservation program. T. P. Sanders. il Oil & Gas J 40:94, 97 Ap 30 '42

Making a mine dump give to the war effort; with cost data. J. R. Villars. il Min Cong J 28:21-3 N '42

Metal reclaimed for junk piles built a war lube oil plant. il Nat Pet N 34 pt2:R204-5 Jl 29 '42

More effort urged in railroad scrap quest. B. C. Bertram. Ry Age 113:529-32 O 3 '42

Nation-wide salvage to be intensified. Comm & Fin Chr 156:110 Jl 9 '42

Nationwide scrap drive to intensify oil's own campaign. il Nat Pet N 34:18-20 Jl 8 '42

New scrap drives. il Business Week p53-5 Jl 25 '42

New transformers built of old parts. C. B. Hawkins. il Elec W 117:2086 Je 13 '42

Nut runner for utility salvage shop. il Elec W 118:492 Ag 8 '42

Obsolete rubber equipment adds to salvage campaign. il Rubber Age 51:513 S '42

Old auto bodies may be source of high-tin content solder; drawings showing location of solder spots proposed for auto wreckers. Iron Age 150:70, 72 Ag 6 '42

Old equipment yields scrap. W. McComb. il Am Mach 86:1091 O 1 '42

Old transformers; making the best use of them as salvage. A. L. Morris. Elec R (Lond) 130:467 Ap 10 '42

Pacific Coast oil industry's salvage drive expands. L. P. Stockman. Oil & Gas J 41:18 S 3 '42

Paint spray recovery requested by WPB. Oil Paint & Drug Rep 142:4+ Jl 27 '42

Panning pay dirt from your factory floor; reclamation department of Caterpillar tractor co. il Steel 110:66-7, 70+ Ja 19 '42; Same cond. Nat Safety N 44:17+ D '41; Abstract. Management R 31:54-5 F '42

Philco salvage 120 carloads steel trimmings in six months. Refrig Eng 44:224 O '42

Pile foundations salvaged for shipyard. il Eng N 129:354-6 S 10 '42

Planned war-time maintenance and salvage program; Tennessee copper company. L. Weaver. il Eng & Min J 143:53-4 O '42

Plant salvage practice; a symposium. il Metals & Alloys 16:253-66 Ag '42

Process developed for recovering tin from cans. W. S. Smith. Blast F & Steel Pl 30:350 Mr '42

Railway bearing metals; their control and recovery. J. N. Bradley and H. O'Neill. il diag Engineering 154:319-20, 339-40 O 16-23 '42; Same cond. Engineer 154:325-6, 347-8 O 16-23 '42

Reclaiming alloy steel parts. il Oil & Gas J 41:47-8 My 14 '42

Reclaiming metal scrap from floor sweepings; reclamation plant of Westinghouse electric & mfg. co. W. A. Phair. il plan Iron Age 149:41-4 Ja 29 '42

Reclaiming metals and alloys from industrial wastes. W. E. Keck and F. A. Paciotti. Eng & Min J 143:50 Ja '42

Reclaiming plated metals; review of American, German, Austrian, Swiss, English and French patent literature. W. Machu. Iron Age 149:52-3 Ap 2 '42

Reclaiming rubber. il Elec R (Lond) 130:551-4 My 1 '42

Reclaiming scrap metal; Westinghouse electric & manufacturing company. il Comp Air M 47:6648 Ja '42

Reclaiming tin, used in the Bullard-Dunn process. F. F. Martin. il Iron Age 150:52-3 S 10 '42

Reclaiming twist drills. G. E. Greaser. il Welding J 21:556-7 Ag '42

Reclaiming used rails on the Paulista railway, Brazil. Engineering 153:19-20 Ja 2 '42

Reclaiming used refinery equipment. A. P. Schulze. il Pet Eng 13:107-9, 112, 114 My '42

Reclaiming wire for reinsulation. il Elec W 118:475-6 Ag 8 '42

Reclamation and maintenance of electrical equipment. Oil & Gas J 41:45+ Je 4 '42

Reclamation helps the war effort; Philadelphia transportation company. il Transit J 86:88-91 Mr '42

Reclamation plant, a dependable source of material. G. A. Goerner. Ry Mech Eng 116: 299-302 Jl '42; Same. Ry Age 112:1204-7 Je 20 '42; Discussion. Ry Mech Eng 116:302 Jl '42

Reclamation process proves valuable; Caterpillar tractor co. il Foundry 70:99+ Jl '42

Reclamation projects standardized to save working time and money. il Nat Pet N 34 pt 2:R253 Ag 26 '42

Recovery and preparation of steel scrap. F. E. Ullman. il Steel 110:75-6, 78 Je 29; 111: 97-8+ Jl 6 '42

Recovery of gilding metal from clad steel; cupric ammonium carbonate leaching. A. J. Thompson. il Iron Age 150:51-3 N 12 '42

Recovery of war scrap metal nets Pittsburgh a handsome profit; screens installed in incinerator plant. D. C. Agar. il diag Pub Works 73:11-13 My '42

Reducing aviation crankshaft rejects. Iron Age 149:61 Je 4 '42

Rubber reclaiming; extensive use of dynamic braking. il Elec R (Lond) 131:77-8 Jl 17 '42

Salvage and reclamation of aluminum alloy castings by welding; abstract. A. T. Ruppe and A. J. Juroff. Iron Age 149:60-1 Ap 30 '42

Salvage and reclamation operations of utilities in the war program; conference, St Louis, March 16; papers. H. E. Hodgson and others. Edison Elec Inst Bul 10:79-82+ Mr '42

Salvage campaigns will be abundant. Ptr Ink 199:21 Je 5 '42

Salvage; Ford motor company, ltd. Mech Handling 29:166-7 S '42

Salvage, from a producer's viewpoint. C. R. Stevens. il Steel 111:80-1+ O 12 '42

Salvage has become big business; many firms have created special departments. Am Mach 86:1192j O 15 '42

Salvage; industrial salvage program by manufacturers of Erie, Pa. Dun's R 50:26+ My '42

Salvage is a life saver; shops of St Louis Public Service; illustrations and text. E. F. Theisinger. Bus Transportation 21:244-9 Je '42

Salvage mostly done with standard tools. R. N. Dowling. il Elec W 117:1500-2 My 2 '42

Salvage of aluminum and magnesium castings. Product Eng 13:355-6 Je '42

Salvage of metal from non-ferrous residues. L. Readman. il diag plans Mech Handling 29:136-8 Jl '42

Salvage of waste materials in the chemical industry. A. B. Manning and others. Inst Chem Eng Trans 18:115-28 '40

Salvage specifications; summarizing methods of reclaiming defective parts. il diags Product Eng 13:78-80 F '42

Salvaged metal is used in refinery construction program. W. T. Ziegenhain. il Oil & Gas J 41:22-3+ Jl 16 '42

Salvaging discarded equipment. B. W. Davis. il diag Roads & Sts 85:35 Je '42

Salvaging of scrap metal. il Aero Digest 41: 120, 123-4 Jl '42

Salvaging old preheaters. J. H. Sengstaken. il diag Power 86:186-7 Mr '42

Salvaging scarce metals; Caterpillar tractor co. R. W. Hughes. il Factory Management 100:70-1+ Ja '42

Salvaging scrap metals within the plant; North American aviation, Inglewood, Calif. il Factory Management 100:105-7 Ag '42

Salvaging scrap to win the war. R. Schmidt. Power Pl Eng 46:182+ My '42; Same. Marine Eng 47:133-4 My '42; Same. Chem Ind 51:234+ Ag '42; Abstract. Am Mach 86:490-1 My 14 '42

Salvaging tubes; Tin salvage institute reclaims metals from used collapsible tubes. Business Week p83-4 My 23 '42

SALVAGE (waste, etc.)—*Continued*

Salvaging two thousand tons of street car rails for war needs. M. M. Smith. il Pub Works 73:11-13+ Ag '42
Salvaging with vacuum. il Iron Age 149:61 Mr 26 '42
Salvaging worn tools; International harvester co. H. E. Fleming. il Steel 110:58-9+ F 23 '42
Saturate and wax braid of old wire. diag Elec W 117:1858-9 My 30 '42
Save all scrap to win this scrap! Salvage committee of the textile spinning, weaving and finishing industries. H. R. Mauersberger. Rayon 23:552-3 S '42
Save and serve through salvage; reclamation of used pipe. J. E. Moore. il Gas Age 90:15-17 S 10 '42
Saving with salvage. Management R 31: 131-2 Ap '42
Scrap clinic unifies salvage effort; ceiling prices not to be increased. Steel 110:52 Ap 27 '42
Scrap drive; disposition of dies and machinery used for 1942 and earlier models. E. L. Warner, jr. il Automotive & Aviation Ind 87:9-10+ O 15 '42
Scrap drive uncovered tons of steel and paper. il Factory Management 100:95 Je '42
Scrap drives intensified. il Steel 111:80-1+ S 14 '42
Scrap for victory; Illinois Central employees search corners and dumps. il Ry Age 113: 4-8 Jl 4 '42
Scrap from textile mills; Union-Buffalo mills salvage program. il Textile World 92:91 S '42
Scrap lessons from Brazil. A. J. Poirier. il For Comm W 8:3-5+ Ag 15 '42
Scrap piles contain valuable alloy elements; possibilities of recovering nickel. W. L. Nelson. il Oil & Gas J 40:46 D 18 '41
Scrap salvage, now a major operation at West Coast aircraft plants. R. R. Kay. il Automotive & Aviation Ind 86:17-19, 68+ Je 15 '42
Scrap scramble. il Business Week p17-18+ F 14 '42
Six-pronged drive for raw materials launched. Barron's 22:6 Jl 6 '42
Steel industry sponsors $1,500,000 advertising campaign on salvage. Steel 110:37-8 Je 8 '42
Story behind the fat salvage plan. il Soap & San Chem 18:28-9+ S '42
Stripping machine reclaims wire. J. F. Emery. il diag Elec W 117:1023-4 Mr 21 '42
Successful salvage campaign that cost under $300; Miller company, Meriden, Conn. H. L. Harrison. il Ind Marketing 27:26-7+ S '42
Telephone industry saves metal. il Metal Prog 41:57-8 Ja '42
Tin cans for salvage of tin. Min & Met 23: 388-9 Jl '42
Two hundred salvage wardens hunt scrap; Westinghouse electric and manufacturing company. Heating-Piping 14:668 N '42
V-plan saves vital metals; Wright aeronautical corporation. C. J. Wiberg and F. D. Kent. il Am Mach 86:761-3 Jl 23 '42; Same cond. Management R 31:349-50 O '42
Victory program for our industry; reclamation. il Dom Eng 159:46-9+ Ja '42
War metallurgy group reports on salvaging brass-clad steel scrap. Steel 111:37 O 19 '42
War metals from scrap; Western electric company. il Factory Management 100:69-72 F '42
War on waste; economy and salvage program of Consolidated Edison company. il Am Gas Assn Mo 24:124-6 Ap '42
War scrap salvage cuts refuse disposal costs, Highland Park, Mich. Eng N 129:549 O 22 '42
Waste-salvage program at Rahway; Merck & co. H. Stephenson. il Chem & Met Eng 49:92-3 O '42
Western Electric reclaims maximum amount of scrap. il Am Mach 86:34e Ja 8 '42
Winning the war on waste; Timken roller bearing company. il Factory Management 100:77-82 Jl '42
Wright aeronautical plan for salvaging materials. il Mach 48:126-7 Je '42
Your junk can help win this war. S. A. Tucker. il Power 86:300-3 My '42
Your part in the dormant scrap drive. H. W. Wright. Paint Oil & Chem R 104:60-2 N 5 '42

See also
Oil reclamation
Refuse, Utilization of
Scrap metal

SALVAGE committee, American industries. See American industries salvage committee

SAMARIUM

Electrolysis of rare earth acetates and the separation of europium as amalgam from other rare earths. H. N. McCoy. bibliog Am Chem Soc J 63:3432-3 D '41
Rare-earth metal amalgams; the separation of neodymium, samarium, and gadolinium. J. K. Marsh. Chem Soc J p523-6 Ag '42

SAMPLE cases

Gypsum lays siege to replacement roofing market with 9-lb. sales plan. il Sales Management 50:22-4 My 15 '42

SAMPLES (merchandizing)

How Washburn-Wilson is cashing the demand for dried legumes. J. S. Nelson. il Sales Management 51:42-4 O 20 '42
In creating a sample kit; Marsh wall products. M. Seibert. il Ptr Ink 198:32, 35 F 27 '42
Pal blades break 750 markets with sampling and advertising; turns from private brands to advertised name. il Sales Management 51:50-1 S 15 '42
Sample package makes reference folder for G-E varnished tubings. il Ind Marketing 27:46 Mr '42
Specimen hanger directed specifically at war business; Nickeloid co., Peru, Ill. il Ind Marketing 27:44+ Ap '42
Three men and 1,100 women run this business; Welcome wagon service co. plan for local and national advertisers to deliver samples and other advertising material to brides, new mothers, and newcomers. Am Business 12:37 Ja '42

See also
Sample cases

SAMPLING

Hollow drill for micro-sampling. C. T. Eakin. il Metals & Alloys 16:118 Jl '42
Hollow drill speeds micro-sampling. il Iron Age 150:51 Jl 23 '42
Method of sampling for metallurgical test pieces. C. T. Eakin. il diag Metal Prog 42:207-8 Ag '42
Standard methods for the sampling and analysis of commercial soaps and soap products, revised. R. E. Divine and others. bibliog diags Ind & Eng Chem Anal ed 14:558-67 Jl 15 '42

See also
Air sampling
Dust sampling
Gas sampling
Ore sampling
Soil sampling
Steam sampling
Water sampling
Wool sampling

SAMPLING (statistical methods)

Allocating interviews by metropolitan districts. D. E. Robinson. Adv & Sell 35:28 S '42
Application of random sampling to fiscal studies; determining highway expenditures by several units of government. T. M. C. Martin. map Pub Roads 22:199-208+ N '41
Better sampler; Magazine marketing service tries out testing answers against census data. Business Week p48+ My 2 '42
Census by sample; Bureau's takeover of rival WPA Surveys section. Business Week p24+ S 12 '42
Comments on Dr Madow's Note on tests of departure from normality, with some remarks concerning tests of significance. J. Berkson; R. C. Geary. Am Statis Assn J 36:539-43 D '41
Expected variations in radio program audience ratings. M. N. Chappell. Ptr Ink 201: 58, 60+ O 2 '42
Model quality control charts; Tippett's random sampling numbers. H. Rissik. Engineer 174:86-9 Jl 31 '42

SAMPLING (statistical methods)—*Continued*

On certain biases in samples of human populations. J. Cornfield. Am Statis Assn J 37:63-8 Mr '42

On the sample survey of unemployment. L. R. Frankel and J. S. Stock. Am Statis Assn J 37:77-80 Mr '42

Precision of estimates from systematic versus random samples. J. G. Osborne. Science 94:584-5 D 19 '41

Proposed annual sample census of population. P. M. Hauser. Am Statis Assn J 37:81-8 Mr '42

Quality control with sampling inspection; welding contacts for telephone equipment. C. S. Barrett. Mech Eng 64:361-4 My '42

Recent developments in sampling for agricultural statistics; research conducted at Ames, Iowa. G. W. Snedecor and A. J. King. Am Statis Assn J 37:95-102 Mr '42

Relative efficiencies of various sampling units in population inquiries. M. H. Hansen and W. N. Hurwitz. Am Statis Assn J 37:89-94 Mr '42

Sampling and probability. R. H. Parsons. Engineer 173:528-9 Je 26 '42

Sampling errors of systematic and random surveys of cover-type areas. J. G. Osborne. charts Am Statis Assn J 37:256-64 Je '42

Sampling inspection; methods of applying statistical analysis for quality control. B. P. Dudding. Automobile Eng 32:109-13 Mr '42

Sampling theory when the sampling-units are of unequal sizes. W. G. Cochran. bibliog Am Statis Assn J 37:199-212 Je '42

Sampling with transverse traverse lines. M. J. Proudfoot. Am Statis Assn J 37:265-70 Je '42

Scientific sampling in business. T. H. Brown. Harvard Business R 20 no 3:358-68 [Ap] '42

Size of a radio-listener sample. C. E. Hooper. Ptr Ink 198:29+ Ja 2 '42

Size of samples. R. H. Parsons. Engineering 154:294-5 O 9 '42

Standard error of percentiles. W. D. Evans. Am Statis Assn J 37:367-76 S '42

Statistical basis of the quality control program. S. S. Wilks. J Eng Educ 32:328-34 D '41

Tests of significance considered as evidence. J. Berkson. Am Statis Assn J 37:325-35 S '42

Use of tests of significance in an agricultural experiment station. G. W. Snedecor. Am Statis Assn J 37:383-6 S '42

Using double sampling inspection in a manufacturing plant. D. B. Keeling and L. E. Cisne. Bell System Tech J 21:37-50 Je '42

SAN ANTONIO & Aransas Pass railway

4% on bond due in one year; San Antonio & Aransas Pass first 4s. M. Pescatello. Barron's 22:19 Ap 20 '42

SAN ANTONIO public service company

City issues bonds to acquire company's properties. Comm & Fin Chr 156:870 S 7 '42

Sale to city is halted on plea of Guadalupe-Blanco River authority. Comm & Fin Chr 156:261 Jl 20 '42

SAND

Acid open hearth refractories; sand used for bottoming and fettling. J. H. Chesters. bibliog il Iron Age 149:64-6 Je 4 '42

Amount of oil taken up by sand; abstract. E. Kasner. Science 96:sup10 O 16 '42

Bituminous treatment of sandy soil roads in Nebraska. P. F. Critz and C. M. Duff. il Pub Roads 22:215-30 D '41

Development of the sand and gravel industry. S. F. Colby. pls map U S Bur Mines Information Circ 7203:1-23 '42

Feldspar in Illinois sands; a study of resources. H. B. William. 87p Illinois state geological survey, Urbana '42

Geology of the Heart Butte quadrangle. E. E. Tisdale. (Geological survey bul. 13) 32p bibliog(p31-2) Univ. of North Dakota press, Grand Forks '41

How to pack sand in pipes. Can Min J 63:577 S '42

Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42

Power for mining silica. flow diag il diags plan Power Pl Eng 46:68-72 Ap '42

Preliminary investigation into possibilities for producing silica sand from British Columbia sand deposits. J. M. Cummings. 50 numb l British Columbia, Dept. of mines, Victoria, B.C. '41

Recovering sand by hydraulicking; Atlanta sand and supply co. il Rock Prod 45:46-8 Je '42

Sand blending; simple mathematical methods of determining size distribution. F. C. Bond. Rock Prod 45:60+ O '42

Sand fill reduces weight of bridge pier. il diags Eng N 129:296-8 Ag 27 '42

Sand removal from well water; use of Brassert automatic self-cleaning strainers. G. L. Fugate. il diags Water Works & Sewerage 89:161-4 Ap '42

Source of beach and river sands on Gulf coast of Texas. F. M. Bullard. bibliog maps Geol Soc Bul 53:1021-43, pl 1-3 Jl '42

Surface hardness of metals; measured by reflectivity changes caused by impact of sand. B. Chalmers. il diag Engineering 153:117-20 F 6 '42; Same cond. Engineer 173:232-4 Mr 13 '42; Excerpts. Machine Design 14:82-3 F '42

See also

Aggregates	Sand blast and other headings beginning Sand
Beaches	Silica
Concrete—Aggregate	

Advertising

Packaging and advertising sell sand for fighting fires. Ptr Ink 200:53 Ag 7 '42

Bibliography

Silica sands of Washington. H. Wilson, K. G. Skinner and A. H. Couch. (Eng. exp. sta. bul. 108) 76p bibliog(p67-9) pa 70c Univ. of Washington, Seattle '42

Stone sand

Recover agstone from stone sand. il Rock Prod 45:60-1 My '42

Stone sand for Cherokee dam; American limestone co. B. Nordberg. il Rock Prod 44:46-8+ D '41

SAND, Filter

Specifications for filtering materials; committee progress report, with appendix, Abstracts on filtering material, by H. E. Hudson, jr. Am Water Works Assn J 33:2021-34 bibliog(40 titles, p2033-4) N '41

SAND, Foundry

Blows molding sand into cores. P. Dwyer. il Foundry 70:62-4+ Mr '42

Cement as a binder for foundry sand. Metal Prog 41:61 Ja '42

Foundry dust. il Safety Eng 82:41-2 D '41; 83:40 Ja; 40+ F '42

Materials for sand molds; composite of abstracts. Metals & Alloys 14:896+ D '41

Mechanization of foundries. A. S. Beech. diags Inst Mech Eng J & Proc 147:Proc 53-60, pl 1-6 My '42; Same cond. Engineering 153:298-300, 317 Ap 10-17 '42; Same cond. Mech Handling 29:51-6 Mr '42; Same cond. Engineer 173:189-91 F 27 '42; Discussion. Inst Mech Eng J & Proc 147:Proc 61-8 My; 148:Proc 171-6 D '42; Engineering 153:195-6 Mr 6 '42

Molding sands for magnesium alloys; abstract. Metals & Alloys 15:136+ Ja '42

Resin binders for molding sands; abstract. E. Pragoff, jr. and C. P. Albur. Metals & Alloys 15:1010+ Je '42

Sand research indicates progress being made; abstracts of A.F.A. convention papers. Foundry 70:99+ Je '42

See also

Molds (for casting)

Reclamation

Better materials handling triples casting output; sand-molded magnesium-alloy castings. R. Trautschold. il Steel 111:64 Jl 27 '42

SAND, Foundry—Reclamation—*Continued*

Sprue mill recovers sand. il Iron Age 149:43 Je 25 '42

Testing

Ramability, flowability and density of foundry sands. E. O. Lissell and E. J. Ash. bibliog il diags Foundry 70:78-9, 151-3 O; 80-1, 151-4 N '42

SAND bags. See Sandbags

SAND blast

Automatic metal spraying; equipment applies protective finish for aircraft cylinders. il Steel 110:92+ Mr 9 '42

Foundry dust. Safety Eng 83:40 F '42

Leiman automatic compact sand-blasting machine. il Mach 48:166 My '42

Pipe dream that came true; cleaning steel pipe. il Blast F & Steel Pl 30:1025-6 S '42

Traveling crews paint bridges. il Comp Air M 47:6869 O '42

SAND drying

Factors influencing the performance of rotary dryers. C. F. Prutton and others. bibliog il diags Am Inst Chem Eng Trans 38:123-40, 841-62 F, Ag '42; Discussion. 38: 140-1, 863-4 F, Ag '42

Three-hopper sand dryer built over drillhole to mine. S. B. Sage. il diag Coal Age 47: 93 F '42

To speed sand drying. diag Eng & Min J 143:72 My '42

SAND handling

Better materials handling triples casting output; sand-molded magnesium-alloy castings. R. Trautschold. il Steel 111:64 Jl 27 '42

Effective siphon for handling dry sand. W. E. Abbott. diag Am Mach 85:1143-4 N 12 '41

Mechanical handling in the foundry. D. C. Paterson. il diags plan Mech Handling 29: 125-8 Jl '42

Mechanization of foundries. A. S. Beech. diags Inst Mech Eng J & Proc 147:Proc 53-60, pl 1-6 My '42; Same cond. Engineering 153:298-300, 317 Ap 10-17 '42; Same cond. Mech Handling 29:51-6 Mr '42; Same cond. Engineer 173:189-91 F 27 '42; Discussion. Inst Mech Eng J & Proc 147:Proc 61-8 My '42; Engineering 153:195-6 Mr 6 '42

Modern sand plant incorporates many new features; Western Maryland engine terminal. il Ry Age 112:255-6 Ja 24 '42

Operating a 9-mile belt conveyor at Shasta dam. A. H. Whitmore. il Eng N 129:218-20 Ag 13 '42

Radiating conveyor system speeds storage and shipping; Highland sand and gravel co. il Rock Prod 45:40-1 Jl '42

Self-cleaning dewatering screen also separates sand into sizes. il Rock Prod 45:44-5 S '42

See also

Locomotives—Sand supply

SAND-lime brick association

Annual meeting, Buffalo, Jan. 12-14. Concrete 50:22 F '42; Rock Prod 45:87-8 F '42

SAND-tar mixtures

Rapid method of determining the binder and water contents of sand-bitumen and sand-tar carpets. C. M. Gough and E. H. Green. diag Soc Chem Ind J 61:91-3 Je '42

SAND washing

Sand, gravel, etc. washing; patent specification. diag Mech Handling 29:93 My '42

SANDBAGS

Civilian defense; building protection; revetments. il Arch Forum 76:40-1 Ja '42

Fabrics for military purposes. il Textile World 92:127 F '42

Mildew resistance of cotton bags. Franklin Inst J 232:490 N '41

Mildewproofing army fabrics; copper napthenate process. il Textile World 92:101 F '42

Mildewproofing army fabrics; determination of percentage of copper. R. A. Allen. Textile World 92:73 Ap '42

Rotproofing of sandbags. E. F. Armstrong. il Chem & Ind 60:668-74 S 13 '41; Abstract. Textile Col 64:196-8 Ap '42

Rotproofing treatment; abstract. Soap & San Chem 18:61 Ja '42

Sand-bag barricades built with asphalt-sand mixtures. Am Gas J 156:17 Ap '42

Sand bag barricades used with asphalt admixture. il Eng N 128:77 Ja 15 '42

Standards for rot-proofing cordage and jute hessian or canvas. Textile Col 64:35 Ja '42

What about bomb protection? J. M. Gorrie. diags Power 86:348-9 Ap '42

SANDBURG, Carl, 1878-

From poetry to politics. por Business Week p7 Mr 7 '42

SAN DIEGO, California

San Diego faces 1960's problems today; water supply, sewage disposal, housing, traffic. il Eng N 129:110-13 Jl 16 '42

See also

Housing—San Diego

Rapid transit

Busy San Diego; abandoned track put back into service. il Mass Transportation 38: 234 S '42

San Diego, where every hour is rush hour. L. S. Flint. il Bus Transportation 21:462-6 O '42

Sewerage

New sanitary sewage facilities for San Diego. B. D. Phelps and R. C. Stockman. il plans Civil Eng 12:17-20 Ja '42

SAN DIEGO gas and electric company

San Diego receives the Charles A. Coffin award. Elec W 117:2071 Je 13 '42

Stock offered. Comm & Fin Chr 154:1151 N 22 '41

Wins Charles A. Coffin Foundation award. Gen Elec R 45:591 O '42

SANDING machines

Coated abrasives, a tool. E. B. Gallaher. Metal Finishing 40:53-4+ Ja '42

Finishing hard rubber products with the Wetordry 3-M method. G. E. Winton. il Rubber Age 50:353-4 F '42

Fixture for sander insures flat surfaces. L. Kasper. diags Am Mach 85:1232 N 26 '41

Industrial exhaust ventilation; fan wheel sanding. F. F. Kravath. il Heat & Ven 39:55 Ap '42

Jefferson improved endless-belt sander. il Mach 48:166 D '41

SANDMEYER reaction

Decomposition reactions of the aromatic diazo-compounds; mechanism of the Sandmeyer reaction. W. A. Waters. Chem Soc J p266-70 Ap '42

Interpretation of the Sandmeyer reaction. H. H. Hodgson, S. Birtwell and J. Walker. Chem Soc J p770-6 N '41; Correction. p376-7 My '42

SANDSTONE

Lateral variation in Chester sandstones producing oil and gas in lower Wabash river area, with special reference to New Harmony field, Illinois and Indiana. G. V. Cohee. maps Am Assn Pet Geologists Bul 26:1594-1607 O '42

Ortiz sandstone and Guarumen sandstone group of north-central Venezuela. M. Kamen-Kaye. maps Am Assn Pet Geologists Bul 26:126-32 Ja '42

Payton pool, Pecos and Ward counties, Texas. R. E. Gile. maps Am Assn Pet Geologists Bul 26:1632-46 O '42

Sandstone grindstones come back. B. Random. il Comp Air M 47:6837-40 S '42

SANFORD, Maine

Water supply

Some water treatment experiences. H. L. Clark. il Water Works & Sewerage 88:500-2 N '41; Same. N E Water Works Assn J 56:59-64 Mr '42

SANFORIZING

Evaluation of finishing agents for sanforizing. diags Am Dyestuff Rep 30:679-81 D 8 '41

Sanforizing as applied to rayons and unstable fabrics. H. D. Clayton. Am Dyestuff Rep 31: 137; Discussion. 140-3 Mr 16 '42

SANFORIZING—*Continued*

Sanforizing process; discussion. Am Dyestuff Rep 31:62-3 F 2 '42

SAN FRANCISCO

City of the golden 'fifties. P. Jacobson. 290p $3 Univ. of California press, Berkeley '41

San Francisco gets tough; city's packaging campaign under California law. Business Week p56-8 Ap 25 '42

Structural engineers select buildings for San Francisco air raid shelters. Eng N 127:907 D 25 '41

Rapid transit

Cable cars keep rolling; San Francisco's most picturesque transit vehicles now have new lease of life. il Transit J 86:164-5 My '42

Highlighting the blackout on the West coast. il Bus Transportation 21:130-2 Mr '42

Sewerage

Industry in home defense; plumbers plan for repairing sewerage system in case of air raids. il Dom Eng 159:54-5+ Ja '42

Shore pollution reduction at San Francisco; abstract. C. G. Hyde. Water Works & Sewerage 89:441-2 O '42

Streets

Street widening with heavy equipment; Lombard street. il Roads & Sts 85:29-31 Jl '42

Traffic segregation design keeps them rolling. il plan Roads & Sts 85:54, 56+ My '42

War industries committee

Coast forges a plan to help small business weather the war. E. Gidlow. Sales Management 51:36-9 Ag 1; 22-4 Ag 15 '42

Water supply

Limnological observations on San Francisco reservoirs. H. C. Medbery. Am Water Works Assn J 34:719-35 My '42

Pipe protection with a thin enamel coat; San Francisco water department. J. J. Crowley. il Eng N 129:28-30 Jl 2 '42

Testing small meters in San Francisco. G. W. Pracy. bibliog Am Water Works Assn J 34:712-18 My '42

See also

Hetch Hetchy water supply project

SAN FRANCISCO Bay bridges

Bridge behavior recorded electrically; installation on Golden Gate structure; wind direction and velocity are measured. il Elec West 89:48 Ag '42

Golden Gate bridge movements being reported for study. il Eng N 128:867 My 21 '42

SAN FRANCISCO employers council

Boss union nicked; San Francisco hotel owned by outsider signs up with A.F.L. unions. il Business Week p18+ N 15 '41

SAN FRANCISCO stock exchange

San Francisco stock exchange ups commission rates. Comm & Fin Chr 155:127 Ja 8 '42

60 years old. Comm & Fin Chr 156:1188 O 1 '42

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

SANGAMON river, Illinois

Farm-city plan for erosion control. R. H. Musser. J Land & Pub Util Econ 18:323-7 Ag '42

Sangamon. E. L. Masters. 258p $2.50 Farrar '42

SANGUINARINE

Tetraploidy in antirrhinum majus induced by sanguinarine hydrochloride. T. M. Little. Science 96:188-9 Ag 21 '42

SANITARY chemicals

See also

Cleaning compositions
Disinfection and disinfectants
Insecticides
Soap materials

Manufacture

Fuld brothers make it for the leaders. P. B. Slawter, jr. il Chem Ind 51:236-41 Ag '42

SANITARY chemistry

See also

Air—Analysis
Food—Analysis
Sewage disposal
Soap
Water—Analysis

Bibliography

British chemical and physiological abstracts; B, III, Agriculture, foods, sanitation, etc. Published monthly by Chemical society, London £1 10s

SANITARY districts

See also

Water districts

SANITARY engineering

Action on the municipal front. E. J. Cleary. il Eng N 128:94-6 Ja 15 '42

Controlling pollution of oyster-growing waters of Chesapeake bay. G. L. Hall. il maps Civil Eng 11:715-17 D '41

Modern sanitary engineering, for the use of architects, surveyors, engineers, medical officers of health, sanitation officers, builders, and students. G. E. Mitchell. 169p $5 Chemical pub. co. '42

Protective and remedial measures for sanitary and public health engineering services; progress report of the national committee of the Society, on civilian protection in war time. il diags Am Soc C E Proc 68:105-42 bibliog (p 137-42) Ja '42; Correction. 68: 499-500 Mr '42; Discussion. 68:1013-20 Je '42

Protective and remedial measures for sanitary and public health engineering services; second progress report of the National committee of the society, on civilian protection in war time. Am Soc C E Proc 68: 951-63 Je '42

Public-health engineering in British Columbia. R. Bowering. Water & Sewage 80:23+ Ag '42

Sanitary engineering, a distinct profession; abstract. A. B. Morrill. Am Water Works Assn J 34:1279-80 Ag '42

Sanitation and water emergency needs outlined at annual American public health association meeting. Eng N 129:614-15 N 5 '42

What do you know about sanitary and public health engineering? list of questions and answers. Pub Works 72:36-7, 42 D '41

What's wrong with sanitary engineering? G. E. Symons. Civil Eng 12:593-4 N '42

See also

Drainage
Dust removal
Factory sanitation
Filters and filtration
Heating
Military training camps—Sanitation
Mosquitoes
Municipal engineering
Plumbing
Refuse collection
Refuse disposal
Sanitation
Sewage disposal
Sewerage
Smoke prevention
Snow removal
Trade waste
Ventilation
Water pollution
Water purification
Water supply
Water supply engineering

Bibliography

Wartime protection. Am Soc C E Proc 68: 137-42 Ja '42

Study and teaching

Public health engineering stressed at University of Michigan. H. E. Miller. Eng N 128:352 F 26 '42

Teaching methods in sanitary engineering. W. C. Hoad. J Eng Educ 32:318-23 D '41

Teaching plant operation to sanitary engineers. G. E. Symons. bibliog Water Works & Sewerage 89:445-7 O '42

SANITARY engineers

Advancement of sanitary engineering; report of the committee of the Sanitary engineering division. il Am Soc C E Proc 68:965-95 Je '42

SANITARY laws. See Public health laws

SANITARY ware

Manufacture

Longer service from plaster molds by improved mold shop practice. H. T. Homan. il Cer Ind 38:64+ Mr '42

SANITATION

Disease outbreaks from water, milk, and other foods in 1939. A. W. Fuchs. Pub Health Rep 56:2277-84 N 28 '41

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:885-902, 917-48 Je 12-19 '42

How Brownwood, Texas, handled its preparedness boom. R. McDaniel. il Pub Works 73:21+ My '42

Sanitization of tableware. R. C. Strong. bibliog Ind Med 11:10-12 Ja '42

See also

Air conditioning
Air purification
Airports—Sanitation
Car sanitation
Disinfection and disinfectants
Dust removal
Factory sanitation
Fumigation
Hygiene
Hygiene, Industrial
Military training camps—Sanitation
Mine sanitation
Mosquitoes
Plumbing
Public health
Refuse disposal
Restaurants—Sanitation
Sanitary engineering
Sewage disposal
Sewerage
Ships—Sanitation
Smoke prevention
Trade waste
United States—Army—Medical and sanitary affairs
Ventilation
Water closets
Water purification
Water supply

SANITATION, Household

See also

Drainage, House
Heating
Lighting
Plumbing
Ventilation

SANITATION, Military. See Military training camps—Sanitation; World war, 1939—Medical and sanitary affairs

SANITATION, Rural

See also

Sewage disposal, Rural
Water supply, Rural

SAN JOSE, California

Industries

How 19 small plants found war work contracts. A. R. Boone. il Am Business 12:14-16 My '42

San Jose defense pool: what it is, and how it works. E. Gidlow. Sales Management 51:38-41 S 15 '42

Teamwork wins war contracts; San Jose plan, pool of small shops and manufacturers. il Am Mach 86:47-9 F 5 '42

SANTA Fe railway. See Atchison, Topeka and Santa Fe railway

SANTEE river

Power utilization

Santee diverted to Cooper for tidewater hydro. L. H. Hardin. il diag plans map Elec W 117:56-8 Ja 10 '42

SANTIAGO, Chile

Santiago. 24p pa 5c Pan American union, Washington, D.C. '42

SAO PAULO, Brazil (state)

Dollar bonds of Brazil's richest state. F. M. Stern. Barron's 22:19 My 4 '42

SAPOGENINS

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

Sapogenins; the position of the double bond in acids of the β-amyrin group; glycyrrhetic acid, siaresinolic acid, and acids of elemi resin. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p532-50 S '42

Sterols; sapogenins; oxidation products of sarsasapogenin: keto-sarsasapogenin. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:813-16 Ap '42

Sterols; sapogenins; sarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:721-2 Mr '42

Sterols; sapogenins; some new sources of diosgenin. R. E. Marker, R. B. Wagner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1283-5 Je '42

Sterols; sapogenins; the action of hydrogen peroxide on the pseudosapogenin acetates and on the pregnenolones. R. E. Marker, E. M. Jones and E. L. Wittbecker. Am Chem Soc J 64:468-9 F '42

Sterols; sapogenins; the bio-reduction of 4-dehydrotigogenone. R. E. Marker and others. bibliog Am Chem Soc J 64:818-22 Ap '42

Sterols; sapogenins; the bio-reduction of steroids. R. E. Marker, R. B. Wagner and P. R. Ulshafer. Am Chem Soc J 64:1653-5 Jl '42

Sterols; sapogenins; the configuration of the hydroxyl groups in chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:221-3 F '42

Sterols; sapogenins; the position of the hydroxyl groups in digitogenin. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1843-7 Ag '42

Sterols; sapogenins; the structure of the dibasic acid obtained by the permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:147-9 Ja '42

Sterols; sapogenins; the structure of the side chain in the dihydro-pseudosapogenins. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1655-8 Jl '42

Sterols; sapogenins; the structure of the side-chain of chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:809-12 Ap '42

Sterols; sapogenins; the structure of the side chain of sarsasapogenin; the identification of the acid obtained by the haloform reaction on the dibasic acid from the potassium permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:180-1 Ja '42

Sterols; sapogenins; 20-methylpregnanetriol and related compounds. R. E. Marker and D. L. Turner. Am Chem Soc J 64:481-2 Mr '42

SAPONIFICATION

Acid catalyzed hydrolysis of ethyl esters of aliphatic acids. H. A. Smith and J. H. Steele. Am Chem Soc J 63:3466-9 D '41

Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64:2362-5 O '42

High-temperature saponification; an anhydrous system. J. J. Jacobs, jr. bibliog diag Ind & Eng Chem 34:322-6 Mr '42

New soap process; saponification via methylation of fat with high direct glycerine recovery; new patent. G. B. Bradshaw. flow sheets Soap & San Chem 18:23-4, 69-70 My '42

Saponification of acetylsalicylic acid at 35°. J. M. Sturtevant. bibliog Am Chem Soc J 64:77-80 Ja '42

SAPONINS

Saponin from anagallis arvensis. C. D. Mell. Textile Col 63:664 D '41

Saponin from chamaelirium luteum. C. D. Mell. Textile Col 63:619 N '41

Saponin from the species of entada. C. D Mell. Textile Col 63:661-2 D '41

Saponin from the species of grindelia, albizzia, etc. C. D. Mell. Textile Col 64:74-7+ F '42

Saponin from the species of gymnocladus. C. D. Mell. Textile Col 63:659-60 D '41

Saponin from the species of gypsophila. C. D. Mell. Textile Col 63:663-4 D '41

Saponin from the species of the lignum vitae trees. C. D. Mell. Textile Col 63:662-3 D '41

SAPONINS—*Continued*

Saponins from the species of polygala. C. D. Mell. Textile Col 63:618 N '41

SARAN

Fabric woven of Saran exhibited. il News Ed 19:1430 D 10 '41

Fabrics of the future. il Mod Plastics 19:37-9 Ag '42

New woven plastic fabric. il Rayon 22:751 D '41; Same. Textile Col 64:32 Ja '42

Plastic material to replace copper in industry. Metal Finishing 39:679-80 D '41; Same cond. Am Bld 64:94-5 Ja '42

Plastic pipe and tubing one solution of metal shortage problem. il Pet Eng 14:142, 144, 146 O '42

Plastic pipe has many applications. il Sci Am 167:208 N '42

Plastics competition award to Heywood-Wakefield co.; American seating co.; woven extruded plastic upholstery. il Mod Plastics 19:88-9 N '41

Plastics used as substitute materials in war-time refinery maintenance. Nat Pet N 34 pt 2:R303-4 S 30 '42

Saran for injection molding. R. R. Bradshaw and R. D. Lowry. il diags Mod Plastics 20:67-71+ O '42

Saran pipe. Paper Tr J 115:18 Ag 27 '42

Saran pipe and tubing. il Chem Ind 51:554-6 O '42

Saran pipe, properties, uses, etc. Pet Eng 13:148 S '42

To replace copper; thermoplastic tubing is chemically resistant. Sci Am 166:280 Je '42

Vinylidene chloride polymers. W. C. Goggin and R. D. Lowry. bibliog flow sheet il diags Ind & Eng Chem 34:327-32 Mr '42

Vinylidene chloride resin tubing. C. B. Branch and D. L. Gibb. il diag Mod Plastics 19:64-7+ My '42

Vinylidene chloride yarns now woven into goods; Velon, originated from Saran. H. R. Mauersberger. il Rayon 23:615-16 O '42

Vinylidene plastics; properties, uses, etc. Product Eng 13:285-6 My '42

SARATOGA SPRINGS, New York

Geochemical data on Saratoga mineral waters, applied in deducing a new theory of their origin. L. W. Strock. bibliog diags Am J Sci 239:857-98 D '41

Geochemical genesis of Saratoga mineral waters and the spectrochemical analysis of their characteristic trace elements; abstract. L. W. Strock. Science 94:551 D 12 '41

SARDINES

Sardines aplenty; canners in California expect near-record pack. Business Week p41 F 14 '42

SARSASAPOGENIN

Sterols; sapogenins; oxidation products of sarsasapogenin: keto-sarsasapogenin. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:813-16 Ap '42

Sterols; sapogenins; the structure of the side chain of sarsasapogenin; the identification of the acid obtained by the haloform reaction on the dibasic acid from the potassium permanganate oxidation of anhydrosarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:180-1 Ja '42

SARSASAPOGENOIC acid

Sterols; sapogenins; sarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:721-2 Mr '42

SASH weights. See Window sashes—Weights

SAULT SAINTE MARIE canal

Keep the ore shipments going on the Lakes; protecting the Soo. F. M. Patterson. Pub Util 30:151-6 Jl 30 '42

SAUROXINE

Studies on Argentine plants; alkaloids from lycopodium saururus. V. Deulofeu and J. De Langhe. bibliog Am Chem Soc J 64:968-9 Ap '42

SAURURINE

Studies on Argentine plants; alkaloids from lycopodium saururus. V. Deulofeu and J. De Langhe. bibliog Am Chem Soc J 64:968-9 Ap '42

SAUSAGES

Sterilamps stop mold on stored sausage. il Elec W 116:2073 D 27 '41

Analysis

Determination of soybean flour in sausages and other meat products; a protein separation method. J. Bailey. bibliog(71 references) Ind & Eng Chem Anal ed 14:776-81 O 15 '42

SAVAGE, John Lucian, 1879-

Sketch. por Civil Eng 12:55 Ja '42

SAVAGE arms corporation

Another look at your company. Mag of Wall St 70:130 My 16 '42

Thumbnail stock appraisal. Mag of Wall St 69:207 N 29 '41

SAVING

Advertise savings now. H. Powel. Bankers M 144:90-1 Ja '42

Changing relation of consumer income and expenditure. R. B. Bangs. Survey of Cur Business 22:8-12 Ap '42

500 ways to save in your home. 48p pa 25c Chain store pub. corp, 185 Madison av, New York '42

Government has no intent to commandeer savings; urges against fear withdrawals. C. C. Davis. Comm & Fin Chr 155:772 F 19 '42

How 1941 savings were invested. Inv Banking 12:45 Je '42

I'm banking my extra pay. R. K. Meixsell. il Ptr Ink 198:24+ F 6 '42

Income and spending and saving of city families in wartime. A. C. Hanson and others. Monthly Labor R 55:419-34 S '42

It's always good business to promote thrift; suggested articles for local newspapers or bank advertisements. il Bankers Mo 59:312-14 Jl '42

National thrift week had greater public interest. Comm & Fin Chr 155:446 Ja 29 '42

National use for savings; mortgage banks and other economic services of financial institutions. L. H. Pink. Trusts & Estates 74:557-8 Je '42

New savings drive. Economist 141:540 N 1 '41

NYSE analysis of income, outgo and balance remaining reveals natural brake on inflation. Comm & Fin Chr 156:812 S 3 '42

Nugent reverse credit plan. Bankers M 145:261 S '42

Plan to create purchasing power for the post-war market. E. M. Cope. Automotive & Aviation Ind 87:19+ S 1 '42

Post-war income reserve. Trusts & Estates 73:582-3 D '41

Present thrift plan to buy more war bonds. Comm & Fin Chr 155:1946 My 21 '42

Salvage and saving. Economist 141:623 N 22 '41

Save billions for defense. H. Morgenthau, jr. Comm & Fin Chr 155:784 F 19 '42

Save your dough! sane economy to offset fear and hysteria of present. W. Slick. Spectator (Life ed) 147:14 N 20 '41

Saving vital to nation now and for post-war period. A. de Haas. East Underw 43:12 Je 5 '42

Savings bankers urged by Treasury to promote thrift and encourage voluntary saving. J. L. Sullivan. Comm & Fin Chr 156:1633+ N 5 '42

Savings; survey by the Securities and exchange commission. Bankers M 145:231-2 S '42

Small savings year. Economist 141:692 D 6 '41

Spending and saving of the nation's families in wartime. A. C. Hanson and J. Cornfeld. Monthly Labor R 55:700-13 O '42

State-wide savings campaign by the savings banks of the state of New York. Bankers M 144:273-4 Mr '42

Steering purchasing power; German plan. Economist 141:654 N 29 '41

Stretching your dollar in wartime. R. Brindze. 197p $1.75 Vanguard press, New York '42

Taxes as savings incentive. Trusts & Estates 74:10-11 Ja '42

SAVING—*Continued*

32-point victory program helps salesmen to help win war. Ptr Ink 199:19-20+ Ap 17 '42

Thrift takes on a new necessity. J. M. Dodge. Bankers M 144:477-86 Je '42

Thrifty employees promote thrift; National bank of Bloomington. G. C. Helm. Bankers Mo 59:106 Mr '42

U.S. financial safety depends on savings. J. H. Fahey. Comm & Fin Chr 156:190 Jl 16 '42

Urges savings banks to educate in thrift. H. Bruere. Comm & Fin Chr 155:338 Ja 22 '42

War and the defense savings program. H. Morgenthau, jr. Bankers M 144:81 Ja '42

War bonds in savings program. Barron's 22:19 Jl 6 '42

Where increased income is going; more funds flowing into investments. Barron's 22:1 Ag 31 '42

See also

Building and loan associations
Christmas clubs
Credit unions
Hoarding
Insurance, Industrial
Old age pensions
Pensions, Industrial
Savings banks
Savings clubs
Savings deposits

Statistics

Distribution of consumers and consumer savings by income group, 1935-1936; chart. Dun's R 49:36 O '41

Estimates of savings of American families; criticism of National resources committee volume, "Consumer expenditures in the United States." R. S. Tucker. R Econ Statis 24:9-21 F '42

Growth in savings. Fed Res Bul 28:876-7 S '42

SEC analyzes saving, fourth quarter, 1941. Comm & Fin Chr 155:1616 Ap 23 '42

SEC reports individual savings show decline during first quarter of 1942. Comm & Fin Chr 155:2404-5 Je 25 '42

SAVING, Compulsory

Advocates compulsory saving plan to make $30 billion available to government. J Goldman. Comm & Fin Chr 155:1355 Ap 2 '42

Canada's compulsory savings plan; income tax extension with refundable credits. W. A. McKague. Barron's 22:7 Jl 6 '42

Canada's tax blitz; new Ilsley budget, including forced savings plan. Business Week p39-40 Jl 4 '42

Canadian new premiums deductible from tax. East Underw 43:5 Jl 24 '42; Nat Underw (Life ed) 46:2 Jl 24 '42

Coming, forced savings. Business Week p15-17 Jl 18 '42

Forced savings in Canada's 1942-43 budget. For Comm W 8:13+ Jl 11 '42

Forced savings to be introduced in Canada. Trusts & Estates 75:9-10 Jl '42

Morgenthau seeks to avoid forced savings. Comm & Fin Chr 156:460 Ag 6 '42

Rationing consumer expenditure. S. Weintraub. Harvard Business R 21 no 1:109-14 [S] '42

Treasury backflip; adds up to forced savings. Business Week p15-16 S 26 '42

Washington fiscal policy; its war and postwar aims. G. Colm and G. M. Alter. Fortune 26:122-3+ O '42

SAVINGS banks

Expense problems of savings banks. W. R. White. Bankers M 143:548-9 D '41

Government has no intent to commandeer savings; urges against fear withdrawals. C. C. Davis. Comm & Fin Chr 155:772 F 19 '42

In total war. L. P. Smith. Banking 35:99-100 S '42

Mutual savings bank accounts stabilized. Comm & Fin Chr 155:568 F 5 '42

Mutual savings banks; principal assets and liabilities, by states, June 29, 1940 and June 30 and Sept. 24, 1941. Fed Res Bul 28:73 Ja '42

Promote savings now. P. A. Benson. Banking 35:97 S '42; Same. Comm & Fin Chr 156:1080 S 24 '42

Savings bank study; Preserving your bank's leadership in the savings field. Comm & Fin Chr 154:1231 N 27 '41

Savings banks and war savings; abstract. A. Mills, jr. Bankers M 145:174 Ag '42

To woo the thrifty; A.B.A. committee evolves five-point program for banks. Business Week p60 N 22 '41

Wage-hour law applies to savings bank employes. L. M. Walling. Bankers M 144:355-6 Ap '42

See also

Building and loan associations
Savings deposits

Insurance selling

Bank insurers lament competition based on war rider. Nat Underw (Life ed) 46:8 Ja 16 '42

Connecticut bank insurance setup being organized. Nat Underw (Life ed) 45:3-4 D 5 '41

Connecticut savings bank life premiums; comparisons with New York and Massachusetts. East Underw 42:4 D 19 '41

Drop objectionable feature of bank life insurance bill in N.Y. Nat Underw (Life ed) 46:3+ Ap 3 '42

Massachusetts savings bank depositors subsidize life insurance departments. F. E. DeGroat. East Underw 42:3-4 D 19 '41

Model savings bank life bill; measure is for possible future use in 14 states. Nat Underw (Life ed) 46:7 S 25 '42

N.Y. banks ponder dividend revision. Nat Underw 46:3 O 9 '42

N.Y. banks want limit per life increased to $7,500. Nat Underw (Life ed) 46:6 Ja 9 '42

New York savings bank life insurance system completes third year. Comm & Fin Chr 155:235 Ja 15 '42

Operation of savings-bank life insurance in Massachusetts and New York. U S Bur Labor Statistics Bul 688:1-132 bibliog(p128-32); pa 20c Supt. of doc. '41; Summary. Monthly Labor R 54:432-41 F '42

Plans are made for savings bank line in Connecticut. Nat Underw (Life ed) 45:5 N 28 '41

Savings bank insurance dividend unchanged. Comm & Fin Chr 154:1344 D 4 '41

Savings bank insurance may be placed before California voters. Ins Field (Life ed) 71:5+ Ap 17 '42

Savings bank insurance reviewed at conference. Ins Field (Life ed) 71:10 S 25 '42

Savings bank life insurance at the Bowery. W. H. Tietjen. Bankers M 144:366-7 Ap '42

Savings bank life insurance in New York state. Bankers M 143:533-4 D '41

Sound legal reserve life insurance or political savings bank life insurance? D. Wimmer. Ins Field (Life ed) 71:8 My 15 '42

Takes up cudgel against California bank cover. N. B. Hadley. Nat Underw (Life ed) 46:6 My 8 '42

Want double indemnity for savings bank insurance in New York. Comm & Fin Chr 155:1045 Mr 12 '42

Investments

Constructive change in bank mortgage policy. W. R. White. Comm & Fin Chr 156:1635 N 5 '42

Defense housing demand causes N.Y. savings banks to create building companies to aid construction. E. B. Schwulst. Comm & Fin Chr 155:1447 Ap 9 '42

Invest in war and enterprise. T. A. Woodsum. Trusts & Estates 75:409 O '42

Large additions to New York legal list. A. Jansen. Barron's 22:9 Jl 6 '42

National use for savings; mortgage banks and other economic services of financial institutions. L. H. Pink. Trusts & Estates 74:557-8 Je '42

Railroads added to New York legal list. Trusts & Estates 75:68 Jl '42

Vital role in housing for N.Y. savings banks. Comm & Fin Chr 155:1448 Ap 9 '42

SAVINGS banks—*Continued*

Service

Payroll savings an opportunity for new savings accounts. E. B. Sturges, 2d. Bankers M 145:253-5 S '42

Statistics

Largest mutual savings banks; list. Bankers M 145:160 Ag '42

Year-end deposit figures for the 100 largest mutual savings banks; tabulation. Burroughs Clearing House 26:10 Mr '42

SAVINGS clubs

Victory club for defense bonds gains favor. H. E. Group. Bankers Mo 59:120-1 Mr '42

SAVINGS deposits

Activity charge for savings accounts. H. A. Berghof. Bankers M 144:406-8 My '42

Competition for saving. G. F. Berger. Banking 34:29+ Je; 35:26+ Jl '42

Defense bond sales up, savings deposits down. H. Bruere. Comm & Fin Chr 155:339 Ja 22 '42

Fraudulent withdrawals; bank's negligence. C. R. Rosenberg, jr. Burroughs Clearing House 26:27 Jl '42

New savings accounts have stimulated mortgage loans. S. C. Frazier. Comm & Fin Chr 155:1453 Ap 9 '42

Public maintaining savings accounts in spite of war. Bankers M 145:168-9 Ag '42

Savings banks in war time. A. Mills, jr. Trusts & Estates 74:47-8 Ja '42

Savings business a vital factor in banking; abstract. R. R. Marquardt. Bankers M 143:455 N '41

Savings deposits are steady in 1st 6 months. Comm & Fin Chr 156:367 Jl 30 '42

State-wide savings campaign by the savings banks of the state of New York. Bankers M 144:273-4 Mr '42

Today's savings problems. H. M. Hart. Banking 35:98 S '42

Year-end deposit figures for the 100 largest mutual savings banks; tabulation. Burroughs Clearing House 26:10 Mr '42

See also

Christmas clubs

Savings banks

Interest

Competition for savings. G. F. Berger. Banking 34:29+ Je '42

Savings bank study; methods of interest payment on accounts. Comm & Fin Chr 154:1231 N 27 '41

SAVINGS stamps. See War savings stamps

SAWDUST

Oxalic acid from sawdust. D. F. Othmer and others. bibliog flow sheets il diags Ind & Eng Chem 34:262-79 Mr '42; Abstract. Chem & Met Eng 49:153 Ja '42

Plant-designed woodburning setup meets test of experience; Standard furniture co.'s plant. il diag Power 85:903-5 D '41

Sawdust burners heat buildings and homes automatically. E. C. Willey. il diags Heat & Ven 39:43-6 O '42

Sawdust serves as fuel in home furnace. il Sci Am 166:292 Je '42

SAWMILL waste. See Sawdust; Wood waste

SAWMILLS

Power

Diesel slashes costs for western sawmill operator. T. White. il Diesel Power 20:208-9 Mr '42

Safety measures

Cheerful messenger, illustrated publication aids safety program of Shevlin-Hixon company. C. K. Weil. il Nat Safety N 46:20-1+ Ag '42

SAWS

Circular and band saws for plastics; reference book sheet. Am Mach 86:353 Ap 16 '42

Logging tools are greatly improved; forty years of progress. J. A. McNally. Pulp & Pa of Can 43:627+ Jl '42

Using a band saw to cut sponge rubber and other resilient materials. H. J. Chamberland. il Mach 49:169-70 S '42

Accidents

Power-saw accidents, their circumstances and causes. Nat Safety N 45:28-9 Je '42

Advertising

Pre-judging pulling power of farm-paper advertisements. il Ptr Ink 198:18-19 Ja 16 '42

SAWS, Electric

Make 'em last; suggestions on maintenance and upkeep of power tools. S. S. Mellor. il Am Bld 64:59 Ja '42

Portable electric saw. il Business Week p78 D 6 '41

Stone masonry; modernisation of an old-established industry. il Elec R (Lond) 130:269-70 F 27 '42

SAWS, Metal working

A-c drive simplifies speed control; metal cutting band saws. L. W. Herchenroeder. diags Machine Design 14:162+ Ap '42

Conservation control cards for tools; power hack saw blades. Power Pl Eng 46:112 Jl '42

Contour sawing of naval gun mounts. H. J. Chamberland. il Iron Age 150:46-9 Jl 9 '42

Disston improved inserted tooth metal cutting saw. il Ry Mech Eng 116:432 O '42

DoAll band-saw lubricator. il Mach 48:219 Ap '42

Flexible back metal band saws; how to obtain greater efficiency; recommended specifications; reference book sheet. Am Mach 86:411 Ap 30 '42

Friction disks and hot saws; reference book sheet. diags Am Mach 86:351 Ap 16 '42

Hand hack saw blades; how to obtain greater efficiency; recommended specifications; reference book sheet. Am Mach 86:463 My 14 '42

High speed cutting of shell billets. A. F. Macconochie. il Steel 109:72, 74+ D 15 '41

Improved pipe mill hot saw. diags Iron Age 149:43 Ja 22 '42

Inserted-tooth circular metal saws; reference book sheets. il diags Am Mach 86:245, 247 Mr 19 '42

Peerless vertical-cutting power saw. il Mach 48:167 Mr '42

Power hack saw blades; how to obtain greater efficiency; recommended specifications; reference book sheet. Am Mach 86:409 Ap 30 '42

Proper use of hand-operated hack-saw blades. diags Oil & Gas J 41:47 Ag 6 '42

Reconditioning worn blades used on power hacksaws. G. Coffey. il Mach 49:171 S '42

SAWYER, Willitz Herbert, 1873-

Two new members are elected to ASA board of directors. por Ind Stand 13:36-7 F '42

SAYRE and Fisher brick company

Reorganization. Comm & Fin Chr 155:2286 Je 15 '42

SCAFFOLDING

Jacob's ladder proves valuable for bridge painters. il Eng N 128:501 Mr 26 '42

Sliding scaffolds speed cement plant. il diags Eng N 128:474-7 Mr 26 '42

Steel scaffolding loaded to 700 lbs. per sq. ft. il Am Bld 64:78-9 F '42

Safety measures

Barrier boards and scaffold promote safety. J. R. Steele. il diags Elec W 117:2225 Je 27 '42

Scaffolds for construction and maintenance work. il Nat Safety N 45:80-1+ Mr '42

SCALES

Coal scale has dust-tight housing. il Product Eng 13:76-7 F '42

Control of stockrooms, inventories, etc., by means of special weighing devices. H. I. Maycock. il Instruments 15:47+ F '42

Movable scales speed weigh-counting; Waukesha motor co. il Steel 110:104+ My 11 '42

SCALES—*Continued*

Spring scale measures deflections of loaded floors. F. M. Weakley. diag Eng N 128:934 Je 4 '42

See also

Balances

Manufacture

Alternates for non-ferrous and stainless in scales. il diags Product Eng 13:198-201 Ap '42

SCALING of metals. See Metals—Scaling; Steel—Scaling

SCANDIUM

Beta-ray spectra of scandium. G. P. Smith. bibliog Phys R 61:578-83 My 1 '42

SCARBOROUGH, Ontario

Water supply

Improvements to Scarborough waterworks system. R. Harrison. il diags plans Water & Sewage 79:11-15+ D '41

SCARCITY ratings. See Raw materials

SCARFED joints. See Joints

SCARLET fever

Scarlet fever; abstract. F. F. Schwentker and J. H. Janney. Science 96:sup10 O 30 '42

Studies on the hemolytic streptococcus; the electrophoretic isolation of the erythrogenic toxin of scarlet fever and the determination of its chemical and physical properties. L. E. Krejci and others. Franklin Inst J 233: 402-3 Ap '42

SCATTERING of electrons. See Electrons—Reflection, scattering, etc.

SCATTERING of mesotrons. See Mesotrons—Scattering

SCATTERING of neutrons. See Neutrons—Scattering

SCATTERING of protons. See Protons—Scattering

SCATTERING of X rays. See X rays—Scattering

SCHAIRER, John Frank, 1904-

Sketch and bibliography. por Am Cer Soc Bul 21:68-9 My 15 '42

SCHAUS, William, 1858-1942

Sketch. C. Heinrich and E. A. Chapin. Science 96:244-5 S 11 '42

SCHEDULES

Condensed schedule for shop use. C. H. Brown. il Aero Digest 41:159 Ag '42

Schedules, wrong kind or right kind? T. E. Hickey. Ry Mech Eng 116:176 Ap '42

Scheduling operations for uniform output; Thompson aircraft products co., Cleveland. J. G. Moore. Factory Management 100:117-19+ Ag '42

Scheduling shipments under priority regulations; Caterpillar tractor co., Peoria, Ill. W. H. Franklin. N A C A Bul 23:1041-9 Ap 1 '42

See also

Building—Rapid construction

Railroads—Schedules

SCHEELITE

Canadian tungsten; prospecting for scheelite. Chem Age (Lond) 47:303 O 3 '42

Fluorescent light; the prospector's new tool; ultra-violet lamp aids in determining presence of scheelite and other minerals. R. Hamilton. il Min Cong J 28:52-3 Ap '42

Fluorescent light used in molybdenum assay. Eng & Min J 143:65 S '42

Nation wide search for tungsten ore. Can Min J 62:835 D '41

Portable ultraviolet lamp for the prospector. Comp Air M 47:6826 Ag '42

Tungsten prospecting in Gilmour Lake area. W. S. Walker. Can Min J 63:145-9 Mr '42

SCHELLENBERG, Arthur B. 1908-

Personalities in refrigeration. por Refrig Eng 43:88+ F '42

SCHENLEY distillers corporation

Another look. Mag of Wall St 69:711+ Ap 4 '42

Debenture issue. Comm & Fin Chr 155:830, 944, 1021-2 F 24, Mr 5-9 '42

Plants producing 100% for war orders. Comm & Fin Chr 156:1244 O 5 '42

SCHERING bridge

Audio frequency aids bushing tests. il Elec W 117:2248+ Je 27 '42

Oil power-factor measured by bridge. E. J. Mommo. il diag Elec W 117:688 F 21 '42

SCHERING corporation

Schering executives suspended by U.S. Oil Paint & Drug Rep 141:5+ F 2 '42

Stock seized by U.S. Oil Paint & Drug Rep 141:7 Ap 27 '42

SCHICK, incorporated

Dramatized sales plan sells Schick production facilities to Uncle Sam. L. M. Hughes il Sales Management 50:32, 34 Mr 1 '42

SCHIFF reagent

Supersensitive Schiff's aldehyde reagent; demonstration of a free aldehyde group in certain aldoses. W. C. Tobie. bibliog Ind & Eng Chem Anal ed 14:405-6 My 15 '42

SCHISTS

Flotation of weathered Alabama graphitic schists for crucible flake. J. B. Clemmer and others. (Geol. survey bul. 49) 101p Univ. of Alabama, University, Ala. '41

SCHMIDT reaction

Reactions of hydrazoic acid. L. H. Briggs, G. C. De Ath and S. R. Ellis. Chem Soc J p61-3 Ja '42

SCHOENHEIMER, Rudolf, 1898-1941

Sketch. H. T. Clarke. Science 94:553-4 D 12 '41

SCHOHARIE grit

Restudy of the Schoharie and Esopus formations in New York state. W. Goldring and R. H. Flower. bibliog Am J Sci 240:673-94 O '42

SCHOLARSHIPS and fellowships

Awards of Social science research council. Science 96:78 Jl 24 '42

Charles A. Coffin fellowship awards, 1942-43. Gen Elec R 45:233 Ap '42

Du Pont fellowships. News Ed 19:1404 D 10 '41; Same. Oil Paint & Drug Rep 140:36 D 8 '41; Same. Science 94:509 N 28 '41

Elections to fellowship of the Royal society. Science 95:402 Ap 17 '42

Fellowships from Institute of gas technology for thirteen. Gas Age 90:80 Jl 16 '42

Fellowships in science awarded by the Guggenheim foundation. Science 95:436-8 Ap 24 '42

Fellowships in the medical sciences of the National research council. Science 94:580 D 19 '41

Fellowships of the Lalor foundation. Science 96:421-2 N 6 '42

Green light on scholarship plan; Farm underwriters association data released. Nat Underw 46:5 F 5 '42

Henry Parker Willis fellowship established for advanced study in money and banking. Comm & Fin Chr 155:28 Ja 1 '42

Industrial fellowships in operation at Mellon institute during the fiscal year March 1, 1941 to March 1, 1942; tabulation. Chem & Eng N 20:460-1 Ap 10 '42

Many coal companies now interested in scholarships. G. H. Deike. Min & Met 23: 101-3 F '42

Mattiello research fellowship in paint technology established at Brooklyn polytechnic institute. Oil Paint & Drug Rep 141:7+ Mr 2 '42

National research council fellowships in the natural sciences. Science 95:524-5 My 22 '42

Research grants of the Wisconsin alumni research foundation. Science 96:131 Ag 7 '42

Science clubs of America will make nationwide search for scientific ability among boys and girls now in high schools. Science 95:sup10+ My 1 '42

Westinghouse Research fellows. Science 95: 571 Je 5 '42

SCHOLARSHIPS and fellowships, International

Commonwealth fund fellowships in medicine and public health. Science 96:56 Jl 17 '42

SCHOLARSHIPS and fellowships, International—*Continued*

International graduate school exchange. Science 95:570 Je 5 '42

International scholarships and fellowships. F. Aydelotte. Science 96:52-4 Jl 17 '42

Trade scholarships for young men of the other Americas. For Comm W 8:32 Ag 8 '42

SCHOOL administration

Democracy in educational administration; an analysis of principles and practices. W. I. Miller. 117p bibliog(p111-16) $1.75 Teachers college '42

SCHOOL architecture. See School buildings—Designs and plans

SCHOOL auditoriums

Ideas from the interior architecture of Swedish school auditoria. G. E. K. Smith. il Arch Rec 92:47-8 O '42

SCHOOL buildings

American school and university; a yearbook devoted to the design, construction, equipment, utilization, and maintenance of educational buildings and grounds, 1942. v14 488p $2.50 Am. school pub. corp, New York '42

Demountable school; prefabricated school for FWA, Pacific Beach, San Diego, Calif. W. H. Hayes. il Arch Rec 91:68-9 My '42

Emergency program for public schools; overtaxed school facilities in defense areas relieved by government building program. il Am Bld 64:76 Ap '42

Lessons from Swedish schools. G. E. K. Smith. il plans Arch Rec 92:39-52 O '42

Low-cost schools in war plant areas. il diags Eng N 128:910-11 Je 4 '42

National council on schoolhouse construction; proceedings of the nineteenth annual meeting, Virginia Beach, Va., Nov. 10-13, 1941. 59p pa 50c Nat. council on schoolhouse construction, Ray L. Hamon, sec-treas, George Peabody college, Nashville, Tenn. '42

Schools; a building types study. il diags plans Arch Rec 91:67-80 Mr '42

Space for teaching; an approach to the design of elementary schools for Texas. W. W. Caudill. 124p bibliog(p121) Texas engineering exp. station, College Station, Tex. '41

Unit costs of school buildings. H. H. Bormann. 83p bibliog(p82-3) $1.60 Teachers college '41

Designs and plans

All classrooms north-lighted in Texas school; Southeast Austin elementary school. il plans Arch Rec 91:72-3 Mr '42

America's building need for education. il diags plans Arch Rec 90:63-72 D '41

Cardinal Hayes high school, Bronx, New York. il plans Arch Forum 75:435-42 D '41

Central Line, Michigan; school building within a defense housing project; views, plan and construction outline. Arch Forum 76:284 My '42

Gloucester high school, Gloucester, Mass.; views, plans and construction outline. Arch Forum 76:169-72 Mr '42

Projected construction; types of housing suitable for use in semitropical areas. il plan Arch Forum 77:44 Jl '42

Thomas O. Larkin school, Monterey, Calif. il diags plans Arch Forum 76:232-6 Ap '42

Vallejo, Calif. Carquinez Heights school. il diags plans Arch Rec 91:47-51 My '42

Well built of concrete and wood; Burton elementary school, Davidson county, Tenn.; every part studied with an eye to economies of materials and labor. il diag plan Arch Rec 91:78-80 Mr '42

Electric equipment

All-electric school at Ilford. il Electrician 129:195-6 Ag 21 '42

Appliances in schools build future demand; Wisconsin power & light company installs equipment for home economics classes. J E. Canfield. il Elec W 117:1183 Ap 4 '42

Heating and ventilation

Cardinal Hayes memorial high school. E. J. Benesch. il Heat & Ven 38:30-4 D '41

Panel heating, new addition to high school; Clover Park high school, Wash. E. L. Weber. il diags Heating-Piping 14:159-60 Mr '42

School heating. il Elec R (Lond) 131:259-62 Ag 28 '42

School plant reduces steam costs from 54 to 20 cents per 1000 lb. E. Wiegand. il Heat & Ven 39:35-6 S '42

Waco school buildings converted to gas. Gas Age 90:33 Ag 13 '42

Lighting

Brightness control; school lighting, natural and artificial. il diag plan Elec West 88:62 Je '42

Reflection factors of some materials used in school rooms; chalkboards, wall and ceiling paints, venetian blinds and window shades. P. Moon. Opt Soc Am J 32:243-6 Ap '42

Teaching children, not subject matter; today's educational methods require better lighting. C. D. Gibson. il Elec West 88:53-6 Ja '42

Protection

A.R.P. in schools. bibliog il diag Arch Forum 77:45-50 O '42

California schools rated for air raid safety. D. C. Willett. Eng N 128:146 Ja 22 '42

SCHOOL buses. See Motor bus lines, School

SCHOOL children

Evaluating dental health programs. J. W. Knutson. bibliog Pub Health Rep 57:1287-1306 Ag 28 '42

Transportation

Administering pupil transportation. J. E. Butterworth and V. Ruegsegger. 197p bibliog(p153-5) $1.60 Educational pubs, 720 Washington av, S.E, Minneapolis '41

See also

Motor bus lines, School

SCHOOL finance

Opinion conflict and school support. F. T. Rope. 164p bibliog(p149-53) $2 Teachers college '41

Some aspects of public school support in Indiana. B. V. Bechdolt. (Bul. 1) 80p pa 25c Research service, Indiana state teachers assn, 240 Hotel Lincoln, Indianapolis '42

SCHOOL hygiene

Health in schools; twentieth yearbook. 544p bibliog(p353-63) $2 Am. assn. of school administrators, 1201 16th st, NW, Washington, D.C. '42

Solving school health problems; the Astoria demonstration study. 377p bibliog(p367-8) $2 Commonwealth fund, New York '42

Study of health and physical education in Columbus public schools. T. C. Holy and others. 240p $2; pa $1.50 Ohio state univ, Columbus '42

See also

School lunches

SCHOOL journalism. See College and school journalism

SCHOOL lands

Democracy's college; the land-grant movement in the formative stage. E. D. Ross. 267p bibliog(p231-54) $3 Iowa state college press, Ames '42

SCHOOL libraries

Administering library service in the elementary school. J. Gardiner and L. B. Baisden. 161p $2.25 Am. lib. assn, 520 N. Michigan av, Chicago '41

Administering the school library. J. Coulbourn. 125p bibliog(p123-5) $1.60 Educational pubs, 720 Washington av, S.E, Minneapolis '42

Librarian and the teacher of science. C. R. Siebens and W. L. Bartlett. 72p bibliog(p47-71) pa 75c Am. lib. assn, 520 N. Michigan av, Chicago '42

SCHOOL libraries—*Continued*

Library standards and procedures for small secondary schools. 31p pa 40c Compton junior college lib, Compton, Calif. '40

Our library. P. R. Fenner. 174p $1.75 Day '42

Practical school library organization and integration. M. Minster. 2d ed rev & enl 75p bibliog(p73-5) pa $1.75 Maud Minster, 1504 5th av, Altoona, Pa. '42

Unit costs in a selected group of high-school libraries. M. E. Crookston. diag U S Office of Educ Bul 1941, no 11:1-36 bibliog(p24-6) '42

Bibliography

School library administration; an annotated bibliography. N. E. Beust, comp. U S Office of Educ Bul 1941, no 7:1-82 '41

SCHOOL lunches

Feeding of school children in Great Britain. Monthly Labor R 54:917-18 Ap '42

Feeding the children; scheme for supplying cheap milk in schools. Economist 141:501 O 25 '41

School lunches and education; helps from federal agencies. 22p bibliog(p17-20) U.S. Office of education, Washington; pa 5c Supt. of doc. '42

SCHOOL lunchrooms and cafeterias. See Lunchrooms and cafeterias, School

SCHOOL management

Principles of democratic supervision; a critical investigation of proposed principles of supervision in light of a democratic philosophy of education. J. A. Rorer. 230p bibliog(p225-30) $2.35 Teachers college '42

SCHOOLHOUSES. See School buildings

SCHOOLS

Reflection factors of some materials used in school rooms; chalkboards, wall and ceiling paints, venetian blinds and window shades. P. Moon. Opt Soc Am J 32:243-6 Ap '42

See also

Advertising—Schools, Appeal to
Aeronautic schools
Colleges and universities
Education
Engineering colleges
Libraries and schools
Library schools and training
Mining schools and education
Radio in education
Textile schools
Trade schools

Insurance requirements

Tuition fees insurance with suggestions on how to sell it. F. C. Crowell, jr. Ins Field (Fire ed) 71:24 Ja 22 '42

SCHOTTKY effect

Electron emission of metals in electric fields; the transition from thermionic to cold emission. E. Guth and C. J. Mullin. bibliog Phys R 61:339-48 Mr 1 '42

SCHRAM, Emil, 1893-

Portrait. Dun's R 50:7 My '42

SCHURMAN, Jacob Gould, 1854-1942

Sketch. R. M. Ogden. Science 96:197 Ag 28 '42

SCHWEITZER'S reagent

Simplified preparation of Schweitzer's reagent. A. Breslau. J Chem Educ 19:356 Ag '42

SCIAKY brothers

Four who weld; brothers Sciaky, French spot welders. Business Week p49-50 S 12 '42

SCIENCE

Advancement of science. E. P. Phillips. Science 96:1-3 Jl 3 '42

Amateur scientist; science as a hobby. W. S. Thomas. 291p $3 Norton '42

Applied science. C. W. Banks. 212p $1.75 Wiley '42

Enjoyment of science. J. N. Leonard. 327p $2.50 Doubleday '42

General science made easy. L. T. Masson. 418p $1.49 Garden City pub. co, Garden City, N.Y. '42

Man and his physical world. D. E. Gray. 665p bibliog(p637-45) $3.75 Van Nostrand '42

Modern science in our environment. bk 1 C. E. Dull, P. B. Mann and P. G. Johnson. 438p bibliog(p401-9) $1.48 Holt '42

Physical science. W. F. Ehret and others. 639p $3.90 Macmillan '42

Physical science. C. H. Nettels and others. 464p $2.24 Heath '42

Physical sciences. E. J. Cable, R. W. Getchell and W. H. Kadesch. rev ed 754p bibliog (p647-71) $3.75 Prentice-Hall '41

Proceedings of the West Virginia academy of science, 18th annual session, Philippi, W.Va., April 25-26, 1941. v15 183p pa 75c West Virginia univ, Morgantown '42

Relations between engineering and science; part of address printed in Science, March 23, 1917. H. M. Howe. Science 95:326 Mr 27 '42

Science and man. R. N. Anshen, ed. 494p $4 Harcourt '42

Science and the land. F. L. Engledow. Chem & Ind 61:239-45 My 30 '42

Science in music. C. E. Seashore. Science 95: 417-22 Ap 24 '42

Scientific knowledge and action; abstract. R. Gregory. Chem & Ind 60:786-7 N 1 '41

Scientific life. J. R. Baker. 154p 7s 6d G. Allen & Unwin, London '42

Scientists face the world of 1942. K. T. Compton; R. W. Trullinger; V. Bush. 80p $1.25 Rutgers univ. press, New Brunswick, N.J. '42

See also

Astronomy
Bacteriology
Biological chemistry
Biology
Botany
Chemistry
Crystallography
Evolution
Geography
Geology
Mathematics
Metallography
Meteorology
Microscope and microscopy
Optics
Paleobotany
Paleontology
Physical geography
Physics
Physiology
Scientific research
Technology
Zoology

also American association for the advancement of science

Bibliography

Graduate degrees awarded and titles of theses, 1894-1940. C. H. Cantrell, comp. 58p D. H. Hill lib, North Carolina state college of agriculture and engineering, Univ. of North Carolina, Raleigh '41

London Science museum, Science library bibliographical series; index to numbers 1-555. S. Baig, comp. N Y Pub Lib Bul 46:707-31 Ag '42

Natural science books, 1941. R. A. Sparrow. Special Lib 33:164-6 My-Je '42

Exhibitions

Preview of the annual exhibition of the American association for the advancement of science. Science 94:sup9-13 D 19 '41

History

Benjamin Franklin as a scientist. R. A. Millikan. Franklin Inst J 232:407-23 N '41

Royal road to knowledge; a simplified explanation of the basic sciences from the beginning of the universe down to the present time. A. F. Collins. 425p $5 Coward-McCann, 2 W. 45th st, New York '42

Science in Britain. R. Gregory. Science 96: 213-15 S 4 '42

Short history of science to the nineteenth century. C. Singer. 399p $3 Oxford '41

International aspects

Search for unity. R. B. Fosdick. Chem & Eng N 20:729 Je 10 '42

Sino-American scientific friendship. M. F. Shaffer. Science 95:407 Ap 17 '42

Laboratory manuals

Basic laboratory practice; an elementary manual of fundamental technic. N. G. Sprague. 124p bibliog(p112-18) $3.50 Chemical pub. co. '41

SCIENCE—*Continued*

Methodology

Creative factors in scientific research; a social psychology of scientific knowledge, studying the interplay of psychological and cultural factors in science with emphasis upon imagination. A. L. Porterfield. 282p $3.50 Duke univ. press, Durham, N.C. '41
Methodology of Pierre Duhem. A. Lowinger. 184p bibliog(p173-5) $2.25 Columbia univ. press '41

Periodicals

A.A.A.S. bulletin. Science 95:356-7 Ap 3 '42
Correspondence in regard to the censorship of scientific journals; letters from J. McKeen Cattell and replies. Science 96: 216-21 S 4 '42

Philosophy

Credidimus Jovem regnare; thinking about the world in the Greek way. F. H. Pike. Science 95:432-3 Ap 24 '42
Dilemma of science. W. M. Agar. 140p bibliog(p137-40) $2 Sheed & Ward, New York '41
Philosophies of science. A. G. Ramsperger. 304p bibliog(p289-95) $2.25 Crofts '42

Popularization

Diffusion of science. J. L. Bennett. Science 96:359-60 O 16 '42

See also
Newspapers—Scientific news
Science clubs

Social aspects

Agricultural science and the people's welfare. E. C. Auchter. Science 96:283-9 S 25 '42
Civic morals of science. C. C. Williams. J Eng Educ 32:504-10 Mr '42
Collective and individual responsibilities of scientific associations; abstract. H. W. Keenan. Chem Age (Lond) 47:284 S 26 '42
Creative factors in scientific research. A. L. Porterfield. 282p $3.50 Duke univ. press, Durham, N.C. '41
Engineer in modern society. A. Van Dyck. Inst Radio Eng Proc 30:305-8 Jl '42
Individuality and science. A. F. Blakeslee. Science 95:1-10 Ja 2 '42
National survival through science. H. N. Holmes. Ind & Eng Chem 34:1410-14 N '42
Science and social action. J. P. Scott. Science 96:39-40 Jl 10 '42
Science shows the way; London Times comment on conference on science and world order. Science 94:439-40 N 7 '41
What man can make of man. W. E. Hocking. Fortune 25:90-3+ F '42

Study and teaching

Enjoying science. V. C. Smith and G. H. Trafton. 596p $1.52 Lippincott '42
Enriched teaching of science in the high school. M. N. Woodring, M. E. Oakes and H. E. Brown. 2d ed rev & enl 402p $3.25 Teachers college '41
Exploring science. V. C. Smith and G. H. Trafton. 458p $1.32 Lippincott '42
Modern-life science. R. H. Carleton and H. H. Williams. 650p $2.40 Lippincott '42
Pennsylvania committee for the promotion of science in secondary education. Science 96: 185-6 Ag 21 '42
Science and education. S. R. Humby and E. J. F. James. 145p $1.25 Macmillan '42
Science education in consumer buying. G. L. Bush. 228p bibliog(p208-23) $2.35 Teachers college '41
Study of the application of an educational theory to science instruction. E. A. Waters. 134p bibliog(p133-4) $1.60 Teachers college '42
Using science. V. C. Smith, G. H. Trafton and W. R. Teeters. 802p $1.80 Lippincott '42
Wartime scientific manpower production. J. S. Nicholas. Science 96:135-6 Ag 7 '42

See also
Cooperative committee on science teaching

Tables, calculations, etc.

Annual tables of physical constants and numerical data, 1941. $3.30 Am. committee on annual tables, Nat. research council, Princeton, N.J. '42
Technidata hand book. E. L. Page. 64p $1.50; pa $1 Henley '42

Yearbooks

Progress of science; a review of 1941. S. E. Farquhar, ed. 404p $2.95 Garden City pub. co, Garden City, N.Y. '42
Science year book of 1942. J. D. Ratcliff. 279p $2.50 Doubleday '42

Germany

Argument of blood; the advancement of science. J. Huxley. 48p pa 10c Macmillan '41
Nazi attack on international science. J. Needham. 47p pa 6d Watts & co, London '41
Physics in pre-Nazi [and Nazi] Germany. Science 94:488-9 N 21 '41; Reply. W. M. Venable. 95:70 Ja 16 '42
Science in chains. R. Gregory. 32p pa 10c Macmillan '41

Great Britain

Scientific research and development in the Empire. A. V. Hill. Engineering 153:435-6 My 29 '42; Same cond. Engineer 173:447-9 My 29 '42
Use and misuse of science in government. A. V. Hill. Science 94:475-7 N 21 '41

See also British association for the advancement of science

Russia

Low temperature physics in the USSR. C. T. Lane. Science 95:84-6 Ja 23 '42; Same cond. Mech Eng 64:223-4 Mr '42
1941 Stalin prize-winners in the U.S.S.R. Science 95:569-70 Je 5 '42
Offprints for the scientific men of Soviet Russia. G. S. Razran. Science 96:231 S 4 '42
Science and war. P. L. Kapitsa. Science 95: 396-8 Ap 17 '42; Excerpts. Mech Eng 64:483 Je '42
Science in the U.S.S.R. J. G. Crowther. il J Ap Phys 13:472-7 Ag '42
Soviet science. J. P. Lawrie. Chem & Ind 61:180 Ap 18 '42
Stalin prizes for scientific contributions. Science 95:188 F 20 '42

Thailand

Thailand department of science; ninth biennial report. Science 94:508 N 28 '41

SCIENCE (periodical)
Advertisements in Science. Science 95:224-5 F 27 '42
Science and the censor. Science 96:274-5 S 18 '42

SCIENCE and religion. See Religion and science

SCIENCE and state
Science and government. H. Dale. Engineer 172:391-2 D 5 '41; Same. Science 95:34-6 Ja 9 '42
Use and misuse of science in government. A. V. Hill. Science 94:475-7 N 21 '41

See also United States—Scientific research and development, Office of

SCIENCE clubs
Reports. Science 94:sup12-13 N 14 '41

SCIENCE society of China
New York chapter. Science 95:597-8 Je 12 '42

SCIENCE talent search
Science clubs of America will make nationwide search for scientific ability among boys and girls now in high schools. Science 95:sup10+ My 1 '42

SCIENCE teaching, Cooperative committee on. See Cooperative committee on science teaching

SCIENTIFIC apparatus and instruments
Importance of scientific instruments and apparatus to the teacher of physics. R. M. Sutton. bibliog il diag R Sci Instr 12:573-82 D '41

SCIENTIFIC apparatus and instruments—*Continued*

War production board regulations relating to the purchase of scientific and laboratory equipment and supplies. R Sci Instr 13:325-32 Ag '42

See also

Aeronautic instruments
Bacteriological apparatus
Cathode ray tubes
Chemical apparatus
Chemical laboratories—Equipment
Electric apparatus and appliances
Electric instruments
Ionization gage
Optical instruments
Physical instruments
Physiological apparatus
Radio instruments
Surgical instruments and apparatus
Surveying instruments

Manufacture

Employment of and demand for women workers in the manufacture of instruments; aircraft, optical and fire-control, and surgical and dental. U S Women's bur, Bul 189-4:1-20; pa 5c Supt. of doc. '42

SCIENTIFIC conferences

On the reading of scientific papers; audience enemies numbers I to VI. E. F. DuBois. Science 95:273-4 Mr 13 '42; Same. Chem & Eng N 20:480-1 Ap 10 '42; Discussion. Science 95:383-4, 503-4; 96:15 Ap 10, My 15, Jl 3 '42

SCIENTIFIC education

See also

Chemical education
Science—Study and teaching

also Cranbrook institute of science, Bloomfield Hills, Michigan

SCIENTIFIC expeditions

Conservation and South American expeditions; Goodspeed plant-hunting expedition. Science 95:597 Je 12 '42

Expedition of the Department of tropical research of the New York zoological society. Science 96:422 N 6 '42

Expedition of the New York zoological society. Science 95:450-1 My 1 '42

Needle to the north; the story of an expedition to Ungava and the Belcher islands. A. C. Twomey and N. Herrick. 360p $3.50 Houghton '42

See also Field museum of natural history, Chicago—Expeditions

SCIENTIFIC literature

Advisory committee on scientific publications; to advise on publication of manuscripts which might have bearing on war emergency. F. B. Jewett, R. G. Harrison and L. P. Eisenhart. Science 95:166 F 13 '42

Cementing Sino-American friendship; sending reprints and other scientific publications. E. H. Walker. Science 96:62 Jl 17 '42

Correction by scientists of manuscripts for the press. R. D. Potter. Science 94:438-9 N 7 '41

Library vs. laboratory research. A. Connolly. Ind & Eng Chem News ed 18:904-5 O 25 '40; Same abr. Min & Met 23:21-2 Ja '42

Offprints for the scientific men of Soviet Russia. G. S. Razran. Science 96:231 S 4 '42

See also

Botanical literature

SCIENTIFIC management. See Industrial management

SCIENTIFIC methods

Creative factors in scientific research. A. L. Porterfield. 282p $3.50 Duke univ. press, Durham, N.C. '41

Scientific methodology and the universality of its application. V. D. Keeler. Advanced Management 6:132-3 O-D '41

SCIENTIFIC research

Aid of science in production in Great Britain. Science 96:290 S 25 '42

Contributions to science of the Johns Hopkins university. Science 96:62 Jl 17 '42

Council for scientific and industrial research of the Commonwealth of Australia. Science 96:54-5 Jl 17 '42

Creative factors in scientific research; a social psychology of scientific knowledge. A. L. Porterfield. 282p $3.50 Duke univ. press, Durham, N.C. '41

Fellowships in science awarded by the Guggenheim foundation. Science 95:436-8 Ap 24 '42

Grants made to the University of Illinois. Science 94:508-9 N 28 '41

Importance of research in the war emergency; resolution adopted by the Council on research of the Pennsylvania state college. Science 96:246-7 S 11 '42

Library vs. laboratory research. A. Connolly. Ind & Eng Chem News ed 18:904-5 O 25 '40; Same abr. Min & Met 23:21-2 Ja '42

Men who make the future. B. Bliven. 325p $3 Duell, Sloan & Pearce, New York '42

Mobilization of science in national defense. F. B. Jewett. Science 95:235-41 Mr 6 '42; Same. Inst Radio Eng Proc 30:113-18 Mr '42; Same abr. Mech Eng 64:13-16 Ja '42

National research council fellowships in the natural sciences. Science 95:524-5 My 22 '42

National survival through science. H. N. Holmes. Ind & Eng Chem 34:1410-14 N '42

Office of scientific research and development. K. T. Compton. J Eng Educ 33:59-69 S '42

Organisation of scientific and industrial research in India. S. Bhatnagar. Chem & Ind 60:839-42 N 29 '41

Permanent science fund of the American academy of arts and sciences. Science 94:432 N 7 '41

Permanent science fund of the American academy of arts and sciences. Science 95:320-1 Mr 27 '42

Research as usual. E. Blackwelder. Science 96:158-9 Ag 14 '42

Research grants of the Virginia academy of science. Science 94:602-3 D 26 '41

Research or else; scientific attitude is unique and hopeful mark of our civilization. P. Cohen. il Tech R 44:79-80, 97-8+ D '41

Role of science institutions in our civilization. W. D. Coolidge. Science 96:411-17 N 6 '42

Science and national defense. V. Bush. J Ap Phys 12:823-6 D '41; Same. Science 94:571-4 D 19 '41

Scientific career of William J. Pope. W. H. Mills. Chem Soc J p700-15 O '41

Scientific research and development in the Empire. A. V. Hill. Engineering 153:435-6 My 29 '42; Same cond. Engineer 173:447-9 My 29 '42

Scientific research and the war. W. Davis. Science 94:sup14 D 19 '41

Scientific research in Australia. Engineering 154:232 S 18 '42

Scientific research in Sweden. Science 95:496 My 15 '42

Scientific work of the Carnegie institution of Washington. V. Bush. Science 95:73-4 Ja 16 '42

Some basic considerations in planning for research in southern problems. G. H. Boyd. Science 96:71-4 Jl 24 '42

Westinghouse research fellows. Science 95:571 Je 5 '42

See also

Aeronautic research
Agricultural research
Biological research
Botanical research
Chemical research
Colleges and universities—Research
Electric research
Engineering research
Industrial research
Laboratories
Medical research
Metallurgical research
Microscope and microscopy
Petroleum research
Rubber research
Scholarships and fellowships
Textile research

also Carnegie institution of Washington; Ella Sachs Plotz foundation for the advancement of scientific investigations; National defense research committee; National research council; National research council of Australia; National research council of Canada; National science fund

SCIENTIFIC societies

American association for the advancement of science and affiliated and associated societies, 110th meeting, Dallas, Dec. 29-Jan. 3. F. R. Moulton, ed. Science 95:133-52+ F 6 '42

Handbook of scientific and technical societies and institutions of the United States and Canada; United States section, comp. by C. Hull and M. Paddock; Canadian section, comp. by S. J. Cook and P. A. Howard. (Bul. 106) 4th ed 389p $4 National research council '42

Impacts of the war on agricultural science as indicated by the December society meetings. Science 95:302-3 Mr 20 '42

Meetings. W. Davis. Science 94:sup10 D 26 '41

Scientific meetings at Salt Lake City; societies meeting with Pacific division of the American association for the advancement of science. Science 95:401 Ap 17 '42

Scientific research and development in the Empire. A. V. Hill. Engineering 153:435-6 My 29 '42; Same cond. Engineer 173:447-9 My 29 '42

See also

American association for the advancement of science

Associated scientific and technical societies of South Africa

Chemical societies

Royal society of London

Southern association of science and industry

SCIENTISTS

Alien scientist and the war. R. H. Heindel. Ann Am Acad 223:144-8 S '42

American scientists and the war effort. O. A. Battista. Rayon 23:594-5 O '42

Complete utilization of scientifically trained personnel. H. Grundfest. Science 96:318-19 O 2 '42

Full utilization of scientific personnel. C. H. Behre, jr, H. Grundfest and E. A. Kabat. Science 96:16 Jl 3 '42

National roster of scientific and professional personnel. Science 96:175-6, 292 Ag 21, S 25 '42

National roster of scientific and specialized personnel; third progress report. L. Carmichael. Science 95:86-9 Ja 23 '42; Excerpts. Mech Eng 64:228-9 Mr '42

National roster of specialized personnel. S. H. Britt. Civil Eng 12:62 Ja '42

Naturalist characterizes scientists. D. T. MacDougal. Science 96:40 Jl 10 '42

Science and social action. J. P. Scott. Science 96:39-40 Jl 10 '42

Use and misuse of science in government. A. V. Hill. Science 94:475-7 N 21 '41

Wartime scientific manpower production. J. S. Nicholas. Science 96:135-6 Ag 7 '42

See also

Chemists

Geologists

Physicists

also names of scientists, e.g. Gibbs, Josiah Willard

China

Cementing Sino-American friendship; sending reprints and other scientific publications. E. H. Walker. Science 96:62 Jl 17 '42

Sino-American scientific friendship. M. F. Shaffer. Science 95:407 Ap 17 '42

Great Britain

King of England's birthday honors list. Science 96:129-30 Ag 7 '42

See also

Royal society of London

Russia

1941 Stalin prize-winners in the U.S.S.R. Science 95:569-70 Je 5 '42

SCIOTO river

Study of the pollution and natural purification of the Scioto river. R. W. Kehr and others. (Pub. health bul. 276) 153p bibliog (p144-6) U.S. Public health service, Washington; pa 20c Supt. of doc. '41

SCOPULARIOPSIS brevicaulis

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

SCOTT, Arthur Hoyt, foundation

Theaters, gardens and horticulture. C. S. Gager. Science 95:635-9 Je 26 '42

SCOTT paper company

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 F 2 '42

SCOURING of textiles

See also

Rayon scouring

Wool scouring

SCOURING powders. See Cleaning compositions

SCOVILL manufacturing company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:600 S 19 '42

SCOVILLE, Wilbur Lincoln, 1865-1942

Sketch. P. A. Foote. Science 95:374-5 Ap 10 '42

SCRANTON, Pennsylvania

Bridges

Major bridge replacement under traffic. A. B. Cohen. il diags Eng N 128:926-9 Je 4 '42

SCRANTON-SPRING BROOK water service company

First and refunding 5s; Scranton Gas & Water first 4½s and the Spring Brook Water Supply first 5s reviewed. Comm & Fin Chr 155:2194+ Je 11 '42

SCRAP material

All is not rosy with the scrap materials industry nowadays. Sales Management 50:71-2 Je 15 '42

Cash offer wins fast turn-in of old merchandise; Devoe & Raynolds company scrap collection drive for paint brushes. il Ptr Ink 200:46-7 S 4 '42

Conservation specialist speeds collection of scrap for Standard of California. il Nat Pet N 34:R152+ My 13 '42

Describes salvage advertising. Ptr Ink 201:28 O 9 '42

Engineering aspects of industrial scrap salvage; papers read at meeting, New York, April 28. il diags Mech Eng 64:449-62 Je '42

Erie gets in the scrap; salvage campaign in Erie plants. il Factory Management 100:66-8+ F '42

Finds 265,000 tons of scrap; General Motors' seven months' collection includes dies and tools; borings. il Steel 111:38+ S 21 '42

Get in the scrap; national salvage program. il Textile World 92:61-2 Ag '42

Getting in the scrap. C. H. Vivian. il diag Comp Air M 47:6801-7 Ag '42

Gold in the scrap pile; how to handle such scrap so that it attains its full usefulness; Westinghouse electric & manufacturing company. R. Schmidt. il Factory Management 100:100-1+ S '42

Industrial campaign under way throughout nation. il Steel 111:94-5, 114-15+ O 5 '42

National scrap reclamation campaign starts; industry must do its utmost. il Steel 111:48-9 Jl 27 '42

Nationwide scrap drive to intensify oil's own campaign. il Nat Pet N 34:18-20 Jl 8 '42

Nelson urges industry to contribute scrap. Comm & Fin Chr 156:1638 N 5 '42

New scrap drives. il Business Week p53-5 Jl 25 '42

Newspapers get in the scrap. Ptr Ink 200:64 S 25 '42

Omaha World-Herald plan gives Nebraska scrap record. Sales Management 51:60 S 15 '42

Reclaiming and using scrap materials; Wright aeronautical corporation. W. W. Finlay. Mech Eng 64:25-7 Ja '42

Re-using shipping cartons and other savings; abstract. F. F. Threadgold. Mod Packaging 15:68+ My '42

Salvage, from a producer's viewpoint. C. R. Stevans. il Steel 111:80-1+ O 12 '42

SCRAP material—*Continued*

Salvaging scrap to win the war. R. Schmidt. Power Pl Eng 46:182+ My '42; Abstract. Am Mach 86:490-1 My 14 '42

Scrap clinic unifies salvage effort; ceiling prices not to be increased. Steel 110:52 Ap 27 '42

Successful salvage campaign that cost under $300; Miller company, Meriden, Conn. H. L. Harrison. il Ind Marketing 27:26-7+ S '42

Two-million-dollar campaign to get in scrap. Ptr Ink 199:59 Je 12 '42

What's what on scrap? question-and-answer discussion prepared by the American industries salvage committee. Explosives Eng 20: 306-8 O '42

Your junk can help win this war. S. A. Tucker. il Power 86:300-3 My '42

See also

Rubber waste

Salvage (waste, etc.)

Scrap metal

Waste paper

Wood waste

SCRAP metal

Aluminum scrap conservation. A. J. T. Eyles. Iron Age 149:51+ F 5 '42

Aluminum scrap drive far below expectation. Comm & Fin Chr 156:24 Jl 2 '42

Automotive council for war production launches drive to gather in the scrap; machinery equipment, etc. to be scrapped. Automotive & Aviation Ind 86:45+ Je 15 '42

Bessemer converter can be used to control the price of scrap. J. O. Griggs. il Blast F & Steel Pl 30:1123-5+ O '42

Calling all scrap metals; mine operators urged to segregate and clean up any scrap piles. G. T. Weymouth. il Min Cong J 28: 18-20+ My '42

Collecting scrap from the community; American rolling mill company. il Factory Management 100:110-12+ Ag '42

Complete segregation necessary in getting the most out of aluminum scrap. il Automotive & Aviation Ind 87:37+ Jl 15 '42

Conservation and substitution in Cr-Ni-Fe alloys; utilization of stainless scrap. H. A. Grove. Metal Prog 41:47-8 Ja '42

Conservation by using painted scrap metal. il Product Eng 13:245 Ap '42

Conserving aluminum scrap. J. St Peter. il Aviation 41:99+ My '42

Crushing without danger; metal by-products plant. F. S. Bixby. il Safety Eng 83:22-3 F '42

Cupola practice with briquettes. W. A. Hambley and K. Geist. il Iron Age 150:39-42 Ag 27; 60-3 S 3 '42

Demonstrate new method for melting down automobiles; product resembling pig iron. Steel 110:70+ Ap 13 '42

Erie gets in the scrap; salvage campaign in Erie plants. il Factory Management 100: 66-8+ F '42

Erie plan can help every industrial community to get in the scrap. il Steel 110: 78-80, 82 Ap 13 '42

Examples of conservation and reclamation; Caterpillar tractor company. W. L. H. Doyle. il Mech Eng 64:27-30 Ja '42

Farms yield priceless scrap metal for war needs; Harvester company, using advertising to back up extensive collection program. il Ptr Ink 198:28+ Mr 13 '42

Foreign solution for scrap deficiencies. H. Cowes. Iron Age 150:64+ Ag 6 '42

German recovery of light metal scrap in two piston manufacturing plants. il Iron Age 149:54-8 Je 4 '42

Get in your scrap! here's how to do it. il Food Ind 14:55+ N '42

Get the scrap! WPB's goal. il Business Week p19-20+ O 3 '42

Ghost towns hold many tons of scrap. il Steel 111:114-15+ O 5 '42

Gold in city dump; recovery of strategic tin by mining of Los Angeles accumulation. Business Week p57-9 Ja 31 '42

Governmental units, constructors join in vast scrap metal collection drive. il Eng N 129:466 O 8 '42

Graveyards astir; WPB applies 60-day turnover rule to speed scrap collection. Business Week p51-4 O 3 '42

Harvesting scrap; International harvester company enlists its army of dealers. il Business Week p28 F 21 '42

How Conservation division plans to collect 17,000,000 tons of scrap in six months. il Steel 111:50-1 Ag 3 '42

How to identify alloy steel scrap; possibilities and limitations of spark testing. L. P. Tarasov. bibliog il Iron Age 149:39-43 Ap 16 '42

How to operate salvage departments; Westinghouse electric & mfg. co. R. Schmidt. flow sheet Iron Age 149:56-60 Mr 26 '42

Hurry call for scrap. il Factory Management 100:105-8 N '42

Importance of alloy-scrap segregation. C. H. Herty, jr. Mech Eng 64:452-3 Je '42

Increasing recovery from aluminum scrap. Steel 110:85 Mr 2 '42

International harvester company starts "plant, home, farm" scrap salvage plan. Steel 110:44 F 9 '42

Iron; its use and effect in making basic open-hearth steel. W. C. Buell, jr., J. R. Miller and H. W. Potter. il diag Steel 111:78, 80, 82+ Ag 17 '42

Junked salvage process speeds scrap production. Automotive & Aviation Ind 86:46 My 1 '42

Looked again for scrap; first clean-up was just a starter at Carrier. G. H. Anglin. il Factory Management 100:83-4 O '42

Machine-shop operations; reclamation of waste. R. Bullard. flow diag il plan Mech Eng 64:457-8 Je '42

Machines must work for war or scrap! Rochester gas and electric corp. found 2150 tons of scrap by a thorough and systematic survey. E. B. Robinson. il Power 86:723-5 O '42

Magnetic separation of non-ferrous scrap. R. L. Manegold. il diags Iron Age 150:56-8 N 5 '42

Million tons of scrap from radiators! substitution of unit heaters and convectors. A. G. Dixon. il Heat & Ven 39:35-7 O '42

Mining steel mill slag dumps for metal scraps discarded years ago. il Steel 110:59 F 16 '42

New government corporation to buy scrap metal. Comm & Fin Chr 156:818 S 3 '42

New series of alloy steels, made of scrap, created in ten days. Steel 111:40-1 Ag 17 '42

New unit formed to increase scrap yield. Comm & Fin Chr 156:1552 O 29 '42

Newspapers to conduct campaigns for scrap. Comm & Fin Chr 156:989 S 17 '42

Nonferrous scrap in war production. J. S. Earle. Mech Eng 64:453-4 Je '42

Oil industry is setting pace in drive for additional scrap. H. S. Norman. il Oil & Gas J 41:28-9 Ag 27 '42

Old equipment yields scrap. W. McComb. il Am Mach 86:1091 O 1 '42

Plant salvage practice; a symposium. il Metals & Alloys 16:253-66 Ag '42

Railroads helping to get out costly scrap. Ry Age 113:532 O 3 '42

Recheck of scrap-metal stock is launched by oil industry. G. C. Gibbons. Oil & Gas J 41:58-9+ Jl 30 '42

Reclaiming metal scrap from floor sweepings; reclamation plant of Westinghouse electric & mfg. co. W. A. Phair. il plan Iron Age 149:41-4 Ja 29 '42

Reclaiming plated metals; review of American, German, Austrian, Swiss, English and French patent literature. W. Machu. Iron Age 149:52-3 Ap 2 '42

Reclaiming scrap metal; Westinghouse electric & manufacturing company. il Comp Air M 47:6648 Ja '42

Recovery of gilding metal from clad steel; cupric ammonium carbonate leaching. A. J. Thompson. il Iron Age 150:51-3 N 12 '42

Recovery of metals from scrap; abstract. H. Hartley. Engineer 174:139-40 Ag 14 '42

SCRAP metal—*Continued*

Recovery of values from mixed stainless steel scrap and waste. R. H. McCormack and G. F. Kinney. flow sheet Metal Prog 42:236-7 Ag '42

Recovery of war scrap metal nets Pittsburgh a handsome profit; screens installed in incinerator plant. D. C. Agar. il diag Pub Works 73:11-13 My '42

Refiners hunt for scrap to ease steel shortages. Nat Pet N 34:18-19 Ap 8 '42

Response good, but not good enough in oil's scrap drive. M. R. Singleton. Nat Pet N 34:32-4 Je 10 '42

Salvaging of scrap metal. il Aero Digest 41: 120, 123-4 Jl '42

Salvaging scarce metals; Caterpillar tractor co. R. W. Hughes. il Factory Management 100:70-1+ Ja '42

Salvaging scrap metals within the plant; North American aviation, Inglewood, Calif. il Factory Management 100:105-7 Ag '42

Saving tires with street-clearing magnet. il Mass Transportation 38:80 Mr '42

Scrap. Engineer 173:53 Ja 16 '42

Scrap by detinning. Business Week p38+ Ag 8 '42

Scrap consumers to bid for derelict automobiles within 90 days. il Steel 110:40 F 23 '42

Scrap drive; disposition of dies and machinery used for 1942 and earlier models. E. L. Warner, jr. il Automotive & Aviation Ind 87:9-10+ O 15 '42

Scrap drives intensified. il Steel 111:30-1+ S 14 '42

Scrap-getters. Business Week p58 S 12 '42

Scrap metal from farms. Comm & Fin Chr 154:1239 N 27 '41

Scrap piles offer a reserve source of nickel. Steel 109:53+ D 29 '41; Same abr. Sci Am 166:281 Je '42

Scrap roundup; New York rings the bell. il Business Week p19-20+ O 24 '42

Scrap salvage, now a major operation at West Coast aircraft plants. R. R. Kay. il Automotive & Aviation Ind 86:17-19, 68+ Je 15 '42

Scrap scramble. il Business Week p17-18+ F 14 '42

Scrap segregation ordered. Blast F & Steel Pl 30:909-10 Ag '42

Scrap; 2 million tons in 7 months. il Ry Age 113:564-7 O 10 '42

Secondary copper situation. E. E. Thum. Metals & Alloys 15:850+ My '42; Same cond. Steel 110:81 Je 22 '42

Secondary copper; sources, amount, treatment; report by advisory committee, National academy of sciences. il Metal Prog 41:819-21+; 42:66-9, 221-6+ Je-Ag '42

Seek idle metal. Business Week p18 Ja 31 '42

Segregation of alloy scrap to conserve scarce metals made mandatory. Steel 110:36+ Je 22 '42

Smoothing the scrap cycle; handling system, General electric company. J. L. Lare. il Am Mach 86:881 Ag 20 '42

Sponge iron for scrap? senators' plan impractical. il Steel 110:44-5 Je 29 '42

Sponge iron; merits and demerits of a scrap substitute. Chem Age (Lond) 47:225-6 S 5 '42

Steel industry's scrap stocks shrink 40 per cent in eighteen months. Steel 111:49 Ag 24 '42

Systematic scrap collection greatly increases yield. T. P. Sanders. il Oil & Gas J 41:30 Ag 13 '42

Tin cans wanted. Business Week p24+ O 31 '42

Tin-plate scrap in the open hearth. F. T. Sisco. Min & Met 23:514 O '42

Unexpected results from salvage drive; electromagnet picks up iron and steel. Mach 49: 144 S '42

Utilizing mine scrap by welding. il Min Cong J 28:18-19 Mr '42

V-plan saves vital metals; Wright aeronautical corporation. C. J. Wiberg and F. D. Kent. il Am Mach 86:761-3 Jl 23 '42; Same cond. Management R 31:349-50 O '42

Vast scrap tonnage available at remote western points. K. H. Grayson. Steel 110: 40-1 F 23 '42

Victory program for our industry; reclamation. il Dom Eng 159:46-9+ Ja '42

Wanted: auto dies; Detroit wants to keep those for 1942 models. Business Week p48 Je 20 '42

War demands bring changed attitude toward scrap metals. S. M. Shelton. Min & Met 23: 545-6 N '42

War metallurgy group reports on salvaging brass-clad steel scrap. Steel 111:37 O 19 '42

War metals from scrap; Western electric company. il Factory Management 100:69-72 F '42

Welded scrap; substitute for replacement parts. C. M. Taylor. il Steel 110:60-1 Ap 27 '42

What about steel? the crisis moves from production to scrap to making the best use of what we have. il Fortune 26:86-91+ O '42

Wright aeronautical corp.'s metal segregation system. Iron Age 149:57 Je 4 '42

Your part in the dormant scrap drive. H. W. Wright. Paint Oil & Chem R 104:60-2 N 5 '42

See also
Metal waste
Salvage (waste, etc.)
Steel waste

Prices

Iron and steel scrap. Published in weekly numbers of Iron age

Metal industry price ceilings; OPA maximum quotations on metals, machinery and other products as of Dec. 19. Iron Age 149:121-4+ Ja 1 '42

Price section for the metals, metalworking and allied industries; corrected to Feb. 9, 1942. Iron Age 149:1-19 sec 2 F 12 '42

Scrap-price drive; OPA goes after violators. Business Week p28-9 N 29 '41

Scrap steel prices, monthly, 1929-1941; tabulations. Iron Age 149:168+ Ja 1 '42

Steel and iron scrap; 1929-1941; tabulation. Steel 110:362-3 Ja 5 '42

Steel, iron and scrap price composites, 1937-1941; tabulation. Steel 110:366 Ja 5 '42

Transportation

Scale of permissible transportation charges for scrap metal established. Steel 111:38 Jl 27 '42

SCRAP metal breakers

Breaking long shell steel turnings. diags Iron Age 149:65 Mr 12 '42; Steel 110:63 Mr 23 '42

SCRAP metal industry

New iron and steel scrap forms for dealers, producers, consumers. Iron Age 148:99C-99D N 20 '41

Scrap-happy. Business Week p14-15 F 28 '42

Scrap OPA's problem child. W. A. Phair. il Iron Age 149:76-9+ Ja 1 '42

Scrap shortage; a problem in steel operations. Sci Am 165:321-2 D '41

Steel scrap situation; abstract. E. G. Howell. Steel 109:35 D 15 '41

See also Institute of scrap iron and steel

Statistics

Iron and steel scrap, 1941. H. E. Carmony. il Min Cong J 28:59+ F '42

1941 scrap supply was adequate. E. C. Barringer. Steel 110:400-1 Ja 5 '42

Non-ferrous secondary metals, 1941. F. H. Wright. il Min Cong J 28:58+ F '42

Japan

Jap's scrap pile considered ample for months to come. Iron Age 149:73-4 Ja 22 '42

SCRAPERS

Making equipment last longer. il Eng N 128:871-2 My 21 '42

Tractor-scraper machines in war work. K. F. Park. il Civil Eng 12:299-302 Je '42

Why not tandem scrapers to raise efficiency in semi-longwall work? R. Carson. diags Coal Age 47:62-3 S '42

SCRAPERS, Pipe

Experiences with and the effect of the use of scrapers on internal corrosion of gasoline pipe lines. D. E. Sullivan. il Am Pet Inst Proc 22(4):36-8 '41; Same. Oil & Gas J 40:122+ N 6 '41; Discussion. Am Pet Inst Proc 22(4):40-1 '41

Internal scrapers adapted to gas and vapor-carrying lines. R. M. Sanford. il Oil & Gas J 40:35, 37 F 19 '42

New practices improve crude and products line operation. J. G. Norton. Oil & Gas J 41:170 S 24 '42

SCREEN printing. See Silk screen printing

SCREENING

Chip control; Williams mechanical screening device. F. M. Williams. Paper Tr J 115:20 Jl 2 '42

Review of certain unit processes in the reduction of materials; dynamics of screening. R. F. Davis. Inst Chem Eng Trans 18:76-80 '40

Sand blending; simple mathematical methods of determining size distribution. F. C. Bond. Rock Prod 45:60+ O '42

Screen analysis of pulpwood chips; study of screening variables. C. L. Dickinson and B. E. Lauer. bibliog il diags Paper Tr J 114:27-32 Ap 23 '42

Self-cleaning dewatering screen also separates sand into sizes. il Rock Prod 45:44-5 S '42

To evaluate the performance of a screen. R. Kohn. Eng & Min J 143:60-1+ Jl '42

See also

Coal screening

Paper making—
  Screening

SCREENS

Basic considerations in selecting screens. J. W. Greve. il diags Machine Design 14:61-5+ Mr '42

Black heat speeds clay screen. D. Atkinson. il Elec West 87:56 N '41

Care, study and ingenuity applied to flat screens. A. A. Lowe. Paper Tr J 115:29-31 Jl 2 '42

Chip screen types have changed; forty years of progress. J. B. Jones. Pulp & Pa of Can 43:584+ Jl '42

Dewatering with profile-bar equipment improved by the use of baffles. F. Goldbeck. diags Coal Age 47:66 Mr '42

Electrically heated screens prevent clogging of mesh, speed production. il Brick & Clay Rec 101:18-19 Jl '42

Flexible coupling for screen drive. R. A. Harker. diag Rock Prod 45:37 F '42

Greater strength in wooden filter screen. X. H. Zieman. diag Can Min J 62:839-40 D '41

More screens cut time loss; Ohio marble co. flow sheet il Rock Prod 45:48-50 F '42

Operation of sewage treatment plants; second revised edition; operating grit chambers and coarse screens. il diags Pub Works 73:38, 40+ O '42

Reciprocating screens; patent specifications. diags Mech Handling 29:58-9 Mr '42

Recovery of war scrap metal nets Pittsburgh a handsome profit; screens installed in incinerator plant. D. C. Agar. il diag Pub Works 73:11-13 My '42

Screening mechanism; patent. diags Mech Handling 28:249-50 N '41

Welding simplifies screen construction. J. Baxter, jr. il diags Paper Ind 23:896-8 D '41

Manufacture

Future of electroforming; manufacturing wire screen. L. A. Rich. J Chem Educ 19:386+ Ag '42

Testing

To evaluate the performance of a screen. R. Kohn. Eng & Min J 143:60-1+ Jl '42

SCREENS, Door and window

Specification standards for government work. H. R. Sleeper. Arch Rec 91:92 Ap '42

SCREENS, Moving picture. See Moving picture screens

SCREW machines

Automatic screw cutting lathe attachment for repetition work. il Engineer 173:106 Ja 30 '42

Cold header or screw machine? H. Chase. il diags Iron Age 148:62-7 D 4 '41

Oster hand-operated screw machine. il Engineering 153:379-80 My 8 '42

Turning out 37-mm. shells on automatics. il diags Iron Age 150:50-4 Jl 9 '42

Variable-speed units drive screw machine. il diags Product Eng 13:71-3 F '42

Weigh to get quick counts; scales determine output of screw machine operators on piece work. R. F. Nortman and W. S. Hansen. il Factory Management 100:65-6 Jl '42

SCREW threads

Buttress threads checked by three-wire method. B. Spector. diags Am Mach 86:1232-3 O 29 '42

Historical notes on the tap and die industry. J. E. Winter. Mach 48:133-5 Ja '42

Oxyacetylene flame hardening. J. G. Magrath. il diags Am Mach 86:107-9 F 19 '42

Suggestions on the design of threaded parts. Mach 48:134 My '42

See also

Thread cutting

Standards

Close-tolerance screw threads. P. W. Brown. il Am Mach 86:1151-4 O 15 '42

New gaging standard supplements American standard for screw threads. Ind Stand 13:85-6 Ap '42

Recommended tap drill sizes; reference book sheets. Am Mach 86:849, 851, 913, 915, 971 Ag 6-S 3 '42

Screw-thread standards for federal services, 1942. diags U S Nat Bur Stand Handbook H28:1-241; pa 35c Supt. of doc. '42

Translating thread standards; reference book sheets. Am Mach 86:739, 741, 795, 797 Jl 9-23 '42

Testing

Strength of plastic threads. Product Eng 13:358 Je '42

SCREWDRIVING devices

Screw tightener has two speeds, patent assigned to Detroit power screwdriver co. diag Machine Design 14:124+ Jl '42

SCREWS

Adjustable screws increase belt life. M. Khalos. il Am Mach 86:773 Jl 23 '42

Alternative substitute for shouldered screws. H. B. Martin. diags Am Mach 86:512 My 28 '42

Bolts, nuts & screws. A. E. R. Peterka, comp. 68p $1 Lamson & Sessions co, Cleveland '41

Clamping screw for finished surfaces. E. Grosz. diag Am Mach 86:957-8 S 3 '42

Gage for measuring screws. D. H. Thomas. il Am Mach 86:350 Ap 16 '42

Screw pick-up for assembly operations. C. T. Packer. il Am Mach 86:1233-4 O 29 '42

See also

Leadscrews

Advertising

Industrial advertising switches from competitive to service theme; Parker-Kalon screws. E. Peterson. il Ptr Ink 198:21-2 F 20 '42

Manufacture

Cold header or screw machine? H. Chase. il diags Iron Age 148:62-7 D 4 '41

Heat treating cold-headed products. H. Chase. il Steel 110:72, 74 Mr 2 '42

Inspecting bolts, nuts and screws; Lamson & Sessions company plants. il Am Mach 86:496-9 My 28 '42

New way of making cap screws saves metal; Tocco process of induction heating. Steel 110:100 My 18 '42

SCREWS (for plastics)

Thread-producing screws for plastics. W. M. Hanneman. il diags Mod Plastics 19:47-8+ Ja '42

SCREWS, Wood
Origin and manufacture of wood screws. H. W. Dickinson. Engineering 152:495-6, 505 D 19-26 '41

SCRIPTOSCOPE
Projected writing for use by teachers and lecturers. il Sci Am 166:140-1 Mr '42

SCRIVEN, L. Edward
Portrait. Business Week p22 F 28 '42

SCULLIN steel company
Bond selector; Scullin's 3s-6s, 1951. Comm & Fin Chr 154:1451 D 11 '41

SCULPTURE
Art and science in sculpture; terra cotta developed at Massachusetts institute of technology. F. H. Norton and G. Demetrios. il Tech R 44:120-3+ Ja '42

SCURVY
Pathology of artificially induced scurvy in the monkey, with and without chronic calcium deficiency. T. H. Tomlinson, jr. bibliog Pub Health Rep 57:987-93, pl 1-2 Jl 3 '42

SEA food
See also
Fish as food
Oysters

SEA gulls. See Gulls

SEA level changes
Is the land around Hudson bay at present rising? H. C. Cooke; B. Gutenberg. Am J Sci 240:144-9 F '42
Mean sea-level and sand movements. H. Leypoldt. diags Science 94:607-9 D 26 '41; Discussion. F. P. Shepard and E. C. La Fond. bibliog 95:193-4 F 20 '42

SEA Otter (ship)
Tale of the Sea Otter. il Fortune 25:178, 180 My '42

SEA otters
California sea otter trade, 1784-1848. A. Ogden. 251p bibliog(p219-34) $2.50; pa $2 Univ. of California press, Berkeley '41

Last of the sea otters. H. McCracken. 98p $2 Stokes '42

SEA power
Destiny of sea power, and its influence on land power and air power. J. P. Cranwell. 262p $2.75 Norton '41

History of sea power. W. O. Stevens and A. Westcott. 467p $6 Doubleday '42

Sea power. R. Grenfell. 244p $2 Doubleday '41

Sea power in conflict. P. Schubert. 252p $2.50 Coward-McCann, New York '42

Bibliography

Sea power in the Pacific, 1936-1941. W. B. Ellinger and H. Rosinski. 80p pa $1 Princeton univ. press '42

SEA sleds
Possibilities of using sea sleds in war. R. M. Curtis. diags S A E J 50:sup40 Je '42

SEA terms
Sea terms come ashore. G. D. Chase. (Studies 2d ser. no. 56) 90p pa 50c Univ. of Maine, Orono '42
See also
Naval art and science
—Dictionaries

SEA walls
Usable rock made of soft Miami oolite. il Eng N 129:60-1 Jl 9 '42

SEA water
Calculation of the effect of pressure upon ionic equilibria in pure water and in salt solutions. B. B. Owen and S. R. Brinkley, jr. bibliog Chem R 29:461-74 D '41

Dead sea and its surroundings. E. Bergmann. Engineer 174:150-1 Ag 21 '42

Density of sea water; coast and geodetic survey tide stations, Pacific coast. 44p U.S. Coast and geodetic survey, Washington '41

Deposition of free oil by sediments settling in sea water. O. A. Poirier and G. A. Thiel. pls Am Assn Pet Geologists Bul 25:2170-80 D '41

Down to the sea for metal; extraction of magnesium from brine. Sci Am 166:282 Je '42
Extraction of potassium salts from sea water; abstract. L. Blas. Chem Ind 50:389 Mr '42
Magnesium for victory; Dow process. il Eng & Min J 143:35-6 Ja '42
Magnesium from sea water; abstracts. R. H. Harrington. Nat Safety N 44:71 D '41; Power 86:148c F '42
Magnesium from the sea. D. H. Killeffer. flow sheet il News Ed 19:1189-93 N 10 '41; Excerpt. Rock Prod 45:44-5 Ja '42
Magnesium from the sea. S. D. Kirkpatrick. flow sheet(p130-3) il Chem & Met Eng 48:76-84 N '41; Excerpt. Chem Age (Lond) 46:64-6 Ja 31 '42
Magnesium from the sea; Dow plant. W. J. Murphy. flow chart il map Chem Ind 49:618-28 N '41
Magnesium production from the sea aided by ignitron. il Sci Am 166:235 My '42
Minerals, old and new, from the sea; abstract. E. F. Armstrong. Engineer 174:140 Ag 14 '42
Potash salts from seawater; abstract. L. Blas. Chem & Met Eng 49:161-2 Ap '42
Synthetic magnesite plant under way at Cape May Point, N.J.; Chesny process. News Ed 19:1434 D 10 '41; Same. Chem & Met Eng 48:111 D '41; Same. Min & Met 23:17 Ja '42
Tropical plant condensing problems uniquely solved; use of ocean water for condensing and cooling. J. T. Farmer. diags plan Elec W 117:800-3 Mr 7 '42
Why the sea is salt. C. H. White. bibliog Am J Sci 240:714-24 O '42

SEABOARD air line railway
Airways financial setup. Comm & Fin Chr 154:1194 N 25 '41
Annual report. Comm & Fin Chr 155:1927 My 18 '42
Call for tenders and offer. Comm & Fin Chr 156:614 Ag 17 '42
Court authorizes interest payments. Comm & Fin Chr 155:2372 Je 22 '42
Plans filed for distribution of new securities. Comm & Fin Chr 156:166 Jl 13 '42

Proposals for the allocation of new securities in the Seaboard Air Line reorganization filed. Comm & Fin Chr 156:269+ Jl 23 '42

Receivers to buy certificates. Comm & Fin Chr 156:1059 S 21 '42

SEALING compositions
Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42

Loose-Wiles aqua-proof seal for weatherproof solid-fibre shipping container. il Mod Packaging 16:42-4 O '42

Vibration fatigue tests for seam-sealing compounds for use in high altitude, pressurized aircraft units. R. L. McFarlan. il diags Aero Digest 41:211-12+ S '42

SEALING wax

Advertising

Most effective appeal for volume usage of a product; ingenious testing methods employed by Dennison. W. A. Sturgis. il Ptr Ink 200:20-2+ S 4 '42

SEALS (animals)
Sealskin scare; if Japanese have taken over Pribilof islands, ruthless slaughter may begin again. Business Week p58 Ag 15 '42

SEAM welding. See Electric welding

SEAMEN
International labour organisation, 12th session of the Joint maritime commission, London, June 26-30. Int Labour R 46:166-73 Ag '42

International seamen's code; conventions and recommendations affecting maritime employment adopted by the International labour conference, 1920-1936. 55p 25c Int. labor office '42

Salvage award denied crew of Albionic; members bound to render services with no compensation beyond contract of employment. Weekly Underw 146:899 Ap 18 '42

SEAMEN—*Continued*

Seamen's handbook for shore leave. Mrs H. Howard. 7th ed 348p 60c Am. merchant marine lib. assn, New York '42

Seamen's pensions. Economist 142:601-2 My 2 '42

Seamen's welfare. Economist 143:10 Jl 4 '42

Sit-down strikes on vessels ruled mutiny. Comm & Fin Chr 155:1633 Ap 23 '42

Strike aboard ship held mutiny. Monthly Labor R 54:1156 My '42

Sweden issues new regulations on food rations to merchant marine. For Comm W 7:23 My 23 '42

War and merchant seamen; life-saving appliances. Int Labour R 45:632-61 Je '42

War and merchant seamen; organisation for seamen's welfare in Canada. Int Labour R 46:49-52 Jl '42

War and merchant seamen; unemployment indemnities and compensation for loss of effects in the event of loss of the ship; detention and family allowances. Int Labour R 45:493-511 My '42

Training

Commission increases training facilities for officers and seamen. Marine Eng 47:109 F '42

Florida training station for Maritime commission. il plans Arch Forum 75:418-20 D '41

Maine maritime academy established at Castine. Marine Eng 47:132 Mr '42

War shipping administration takes over training of officers and seamen. Marine Eng 47:166+ Ag '42

SEAMLESS tubes. See Tubes, Steel

SEAPLANE bases

Boston airport seaplane railway. il Marine Eng 46:166+ N '41

Seaplane hangar will serve transatlantic planes. il Eng N 128:303 F 19 '42

Lighting

Seadrome lighting system; Westinghouse directed fluorescent lighting. W. A. Pennow. il diag Aviation 41:144-5+ Mr '42

SEAPLANES

Future of water-based airplanes. F. T. Courtney. il diags Aviation 41:91-3+ Jl; 93-5+ Ag; 116-19+ S; 122-3+ O; 122-3+ N '42

Hitler's latest weapon; water-based torpedo plane. F. Lamoreux. il Aviation 41:243+ Jl '42

Ryan St3-S seaplane. il diags Aero Digest 40:112-13, 115-16 Ap '42

See also

Flying boats

Floats

Plywood utilized as float, conserves aluminum. A. Klemin. il Sci Am 166:205-6 Ap '42

SEAPORTS. See Ports

SEARCHLIGHTS

Aluminum in army searchlights replaced by steel stampings. il Product Eng 13:629 N '42

Engineer mirror plant operated by United States army at Mariemont, Ohio, is completely air conditioned. J. F. Kern, jr. il Heat & Ven 39:42-4 Ja '42

Manufacture

Form tool machines searchlight ring. F. C. Colvin. diag Am Mach 86:510 My 28 '42

SEARLES lake, California

Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

SEARLS, Fred, jr.

Portrait. Business Week p7 F 28 '42

SEARS, Roebuck and company

Consolidated income account for years ended Jan. 31, 1939-1942. Comm & Fin Chr 156:86 Jl 6 '42

Investment audit. H. J. Nelson. Barron's 21:8 D 8 '41

Sears ersatz; long list of products using substitute materials. Business Week p52-4 Ap 18 '42

Sears, Roebuck in war and peace. R. P. Stewart. Barron's 22:7-8 Je 1 '42

Sears's war; world's greatest merchant sees sales falling and problems mounting, and makes the best of it. il Fortune 26:78-83, 119-20+ S '42

Send no money. L. E. Asher and E. Heal. 190p $2.75 Argus books, 16 N. Michigan av, Chicago '42

Special offering. Comm & Fin Chr 156:1244 O 5 '42

Three retail stores; Birmingham, Ala., Honolulu, Washington, D.C. il diags plans Arch Forum 76:207-16 Ap '42

Why Sears is pushing southern industrial development. E. Whitmore. il Am Business 12:12-14+ Ja '42

SEASONAL industries

See also names of seasonal industries and products, e.g.

Building trades
Coal trade
Hats
Refrigerators, Electric
Summer business

SEASONAL variation (statistics)

Certain observations on seasonal movements in stock prices. S. B. Wachtel. bibliog J Business 15:184-93 Ap '42

Relation between seasonal amplitudes and the level of production; an application to the production of steel ingots. G. S. Juliber. Am Statis Assn J 36:485-92 D '41

SEATON, Roy Andrew, 1884-

Lamme award. por J Eng Educ 33:1-4 S '42

SEATRAIN lines, incorporated

Seatrain victor in per diem case; I.C.C. absolves line from paying rental on cars waiting for boats. Ry Age 111:889-90 N 22 '41

SEATS

See also

Airplanes—Seats
Motor buses—Seats

SEATTLE

When to advertise in Miami and Seattle; a study of Federal reserve board reports, 1936 through 1940. C. E. Haring. Adv & Sell 35:24 Jl '42

See also

Housing—Seattle
Motor bus lines—Seattle

Industries

Seattle: a boom comes back. il Business Week p26+ Je 20 '42

War booms parking lot business for Seattle service stations. il Nat Pet N 34:27-8+ Mr 11 '42

SEATTLE gas company

Bond selector. Comm & Fin Chr 155:1766 My 7 '42

SEAWALLS. See Sea walls

SEAWATER. See Sea water

SEAWEED

Chemical progress in Eire; seaweed products developed. Chem Age (Lond) 47:15 Jl 4 '42

Seaweeds at Beaufort, North Carolina, as a source of agar. H. J. Humm. Science 96:230-1 S 4 '42

See also

Algae

SECONDHAND cameras. See Cameras, Used

SECRET service

Germany

Total espionage. C. Riess. 318p $2.75 Putnam '41

United States

Our United States secret service. I. Crump. 264p $2 Dodd '42

SECRETARIES, Private

Applied secretarial practice. R. P. SoRelle and J. R. Gregg. 2d ed 534p bibliog(p112-29) $1.80 Gregg '41

How to find a perfect secretary; standards for secretarial technique. R. L. Cochran. il Bankers Mo 59:442-4 O '42

SECRETARIES, Private—*Continued*

How to get a secretarial job. L. H. Scott and E. C. Belcher. 104p bibliog(p100-1) $1 Harper '42

Secretarial science, principles and procedures. H. M. Doutt. 582p bibliog(p565-70) $3.50 R. D. Irwin, 332 S. Michigan av, Chicago '42

Secretaries accomplish more with well-planned desks. A. M. Spinck. il Bankers Mo 59:297-9 Jl '42

Secretary's desk book. T. K. Brown, jr, W. J. Pelo and V. Bender. 327p, 940p $2.64 John C. Winston co, Philadelphia '41

SECURITIES

Answers to inquiries. Published in biweekly numbers of Magazine of Wall Street

Balanced investment programs for safety today. J. S. Williams. Mag of Wall St 69:258-9+ D 13 '41

How investment companies view the market. L. Tomlinson. Barron's 22:8 Ag 10 '42

How investment trusts view the market; prefer consumer stocks to armament issues. L. Tomlinson. Barron's 22:8 F 2 '42

Investing for a widow, three years later; eight contest winners review and revise their 1939 programs. Barron's 22:7-8 S 7 '42

Investing for a widow, three years later; supplementary lists show wide variations in results. L. Tomlinson. Barron's 22:3-4 S 28 '42

Investment and finance; a monthly survey of current developments affecting the bank investment market. O. Lasdon, ed. Published in monthly numbers of Bankers magazine

Investment companies view the market; hold varying opinions on rail bonds; auto and equipment shares favored. L. Tomlinson. Barron's 22:18 My 4 '42

Investment information, please, by an investment counsellor; with comment by J. S. Williams. Mag of Wall St 71:8-11, 48-9 O 17 '42

Investment program for the small business man. J. S. Williams. Mag of Wall St 70:118-19+ My 16 '42

New security issues for new capital and for refunding domestic, totals, 1932-1941, by months Jan. 1941-Jan. 1942. Fed Res Bul 28:246 Mr '42 [cont monthly]

1942 mid-year security appraisals and dividend forecasts. Mag of Wall St 70:385-97+, 443-51+, 493-504+, 541-53+ Jl 25-S 5 '42

1942 special security re-appraisals and dividend forecasts. il Mag of Wall St 69:425-37, 485-97, 543-57, 597-607 Ja 24-Mr 7 '42

$100,000 investment program for 1942; long-term widow plan composed principally of reorganization rails, utilities and defense bonds. J. D. Weiss. Barron's 22:3+ Mr 2 '42

Personalized portfolios to meet 1942 investment objectives. J. S. Williams. Mag of Wall St 69:305-7+ D 27 '41

Rebuilding your investment portfolio; selected issues offering secure income return under present conditions. J. S. Williams. Mag of Wall St 70:14-15+ Ap 18 '42

Report of industrial securities committee, I.B.A. Comm & Fin Chr 154:1443 D 11 '41

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:14-15, 70-1+ O 17-31 '42

Six securities yielding 8% with ample coverage; Southern Pacific and N.Y. Central bonds; Republic Steel and Erie preferred; National Distillers and Commercial Investment common. J. S. Williams. Mag of Wall St 70:654-5 O 3 '42

Trader views 1942 prospects. H. J. Nelson. Barron's 22:25-7 Ja 12 '42

Twenty billion dollars on the spot; market effects of possible taxation of income from state and municipal bonds. J. S. Williams. Mag of Wall St 69:534-6+ F 21 '42

20% portfolio gain in two years; Investing for a widow contest. Barron's 21:8 D 1 '41

What's ahead for the market; summary of the fortnight. A. T. Miller. Mag of Wall St 69:350-2 Ja 10 '42 [cont bi-weekly]

Which stocks to weed out? E. A. Barnes. Mag of Wall St 69:608-9 Mr 7 '42

See also

Airplane industry and trade—Securities
Automobile industry and trade—Securities
Banks and banking—Investments
Banks and banking—Stock
Bonds
Chemical industries—Securities
Electric utilities—Securities
Holding companies—Securities
Insurance companies—Investments
Insurance companies—Securities
Investment trusts
Investments
Investments, Foreign
Land trust certificates
Mining industry and finance—Securities
Mortgages
Municipal bonds
Petroleum industry and trade—Securities
Public utilities—Securities
Railroads—Equipment trust certificates
Railroads—Securities
Retail trade—Securities
Savings banks—Investments
Speculation
Steel industry and trade—Securities
Stock exchange
Stockholders
Stocks
Trusts and trustees—Investments
Warrants, Stock purchase

Advertising

Direct mail idea that holds customer good will. Comm & Fin Chr 154:1546 D 18 '41

Some plain talk on direct mail advertising. Comm & Fin Chr 154:1324 D 4 '41

Using simplicity and frankness in writing security analyses. Comm & Fin Chr 155:1138 Mr 19 '42

Competitive bidding

See Securities—Marketing

Law

Chandler act as applied in the case of a bankrupt stock broker: text of decision; cash customer of bankrupt broker can regain securities in broker's name. Comm & Fin Chr 154:1221 N 27 '41

Commissioners work on uniformity. Inv Banking 12:7-8 O '42

Diary of the forbidden sale. M. L. Hayward. Barron's 22:4 Ag 3 '42

H. Vaughan Clarke and others indicted for violation of fraud section of the Securities act of 1933. Comm & Fin Chr 154:1212 N 27 '41

House committee concludes hearings on Securities acts; delay seen in drafting bill. Comm & Fin Chr 155:569 F 5 '42

Insists over-the-counter dealer be protected; proposed proxy amendment. E. E. Chase. Comm & Fin Chr 155:649+ F 12 '42

Insurance companies, bank supervisers, ABA oppose registering privately placed issues. Comm & Fin Chr 154:1336 D 4 '41

IBA representatives and others discuss proposed securities acts amendments. Comm & Fin Chr 154:1038 N 13 '41

Judicial decisions, comprising all court decisions, reported and unreported in civil and criminal cases involving statutes administered by the Securities and exchange commission to December 31, 1939. R. MacDonald, comp. v 1 1006p $2 Supt. of doc. '41

Listed vs. unlisted; House hearings on amending Securities act. Business Week p67+ Ja 31 '42

N.Y. Attorney General warns dealers funds for when issued deals must be so used. Comm & Fin Chr 154:1210 N 27 '41

Objection to amendment of Securities acts; statement of the American institute of accountants in opposition to a proposal of the Securities and exchange commission to amend liability provisions of the acts. J Account 73:75-8 Ja '42

Opposes SEC amendments at hearing before House committee in Capitol. E. Schram. Comm & Fin Chr 155:424-5 Ja 29 '42

Report of state legislation committee, I.B.A. Comm & Fin Chr 154:1444 D 11 '41

SECURITIES—Law—*Continued*

Securities regulation in the 48 states. J. M. Edelman. 57 numb l bibliog(l 56-7) pa 50c Council of state governments, 1313 E. 60th st, Chicago '42

Some proposed amendments to securities laws a threat to investors. G. Purcell. Comm & Fin Chr 154:1338-9 D 4 '41

Speakers flay proposed amendments to securities acts at N.Y. dealers meeting. Comm & Fin Chr 154:1009+ N 13 '41

Testify against SEC amendments at hearing before House committee. G. P. Rea and others. Comm & Fin Chr 155:410, 437 Ja 29 '42

Thirteen-state uniformity. A. G. Davis. Inv Banking 12:41-2 Je '42

Twelve states adopt uniform blue sky form. Comm & Fin Chr 155:1227 Mr 26 '42

Lost securities

Safe-keeping and shipping customers' securities; possible war-time liabilities. Inv Banking 12:43-4 Je '42

Marketing

Association to represent all dealers in opposing destructive measures now being formed. Comm & Fin Chr 156:522 Ag 13 '42

Can you sell over the telephone? Comm & Fin Chr 155:102 Ja 8 '42

Cost of flotation for registered securities, 1938-1939. 45p, 54p U.S. Securities and exchange commission, Trading and exchange div, Washington '41

Direct sale of utility securities to the public. O. Ely. Pub Util 28:759 D 4 '41

English approach to the distribution of securities. M. E. Murphy. J Business 14: 372-83 O '41

Exemption of securities from competitive bidding rule. Pub Util 28:785-6 D 4 '41

Getting dealers or protecting investors? the Louisville gas & electric company case. Comm & Fin Chr 154:1643+ D 25 '41

Insurance companies, bank supervisers, ABA oppose registering privately placed issues. Comm & Fin Chr 154:1336 D 4 '41

IBA representatives and others discuss proposed securities acts amendments. Comm & Fin Chr 154:1038 N 13 '41

Letter to stockholders that created interest. Comm & Fin Chr 155:839 F 26 '42

Listed vs. unlisted; House hearings on amending Securities act. Business Week p67+ Ja 31 '42

Low priced stocks can make profits for you and for your customers. Comm & Fin Chr 154:1017 N 13 '41

National assn. of securities dealers surveys members on business methods. Comm & Fin Chr 155:1231 Mr 26 '42

New job for securities dealers; Empire gas & fuel co. experience. J. P. Broderick. Barron's 22:8 O 19 '42

NYSE facilities for special offerings; SEC permits exchanges offering system trial. Comm & Fin Chr 155:658 F 12 '42

Open bidding rules and private sales stir reactions. Pub Util 28:772-4 D 4 '41

Orders action against dealers not revealing to customers exact status of transaction. J. J. Bennett, jr. Comm & Fin Chr 155:2019 My 28 '42

Private sales of securities, 1941. Comm & Fin Chr 155:244-5 Ja 15 '42

Reporter's report; experience of Louisville gas and electric company, in marketing directly shares of its own common stock. Comm & Fin Chr 155:313+ Ja 22 '42

Sales campaign that is producing! Keystone corporation. Comm & Fin Chr 156:1255 O 8 '42

SEC allows issuers to designate counsel to act for bidders in competitive cases. Comm & Fin Chr 154:1215 N 27 '41

SEC bid and asked rule held impractical in application. Comm & Fin Chr 156:521+ Ag 13 '42

SEC issues data on 1941 securities flotation cost. Comm & Fin Chr 156:178 Jl 16 '42

SEC report sees growing importance of secondary distribution of exchange stocks. Comm & Fin Chr 155:833+ F 26 '42

Securities market and how it works. B. E. Shultz. 433p bibliog(p398-404) $5 Harper '42

Short sales presentation is usually most effective. Comm & Fin Chr 154:1207 N 27 '41

Specials in stocks; new method of offering shares passes its early tests. Business Week p80-3 Ap 11 '42

Stock exchange provides new service; machinery is set up to handle special offerings. B. H. McCormack. Barron's 22:20 F 16 '42

Stresses SEC cooperation before IBA. E. C. Eicher. Comm & Fin Chr 154:1447 D 11 '41

Trading activity as yardstick for granting unlisted trading privilege. F. Dunne. Comm & Fin Chr 155:409+ Ja 29 '42

See also
Bonds—Marketing
Bonds, Government—Marketing
Stock exchange
also National association of securities dealers

Over-the-counter marketing

Dealer's profit; full disclosure rule of Securities and exchange commission. Business Week p79-80 Ag 8 '42

Decries deterioration of position of small over-counter houses; urges cooperation. F. Dunne. Comm & Fin Chr 155:1321+ Ap 2 '42

Few NASD members required disciplining. W. H. Fulton. Comm & Fin Chr 156:885 S 10 '42

Insists over-the-counter dealer be protected; proposed proxy amendment. E. E. Chase. Comm & Fin Chr 155:649+ F 12 '42

IBA opposes price disclosure rule as not in public interest, impractical, unworkable. Comm & Fin Chr 156:1617, 1628-9, 1698, 1708-9 N 5, 12 '42

NASD executive committee submits report opposing SEC bid asked disclosure rule to commission. Comm & Fin Chr 156:1519+ O 29 '42

Newspaper quotation spreads should not deprive dealers of adequate compensation. Comm & Fin Chr 155:650 F 12 '42

Over-the-counter dealers must unite; newspaper quotations now make it impossible to conduct business at a profit. Comm & Fin Chr 154:1537+, 1641-2+; 155:1+, 97+, 201+, 319, 415 D 18, 25 '41, Ja 1, 8, 15, 22, 29 '42

Proposed SEC bid and asked prices disclosure rule held harmful to N.Y. state and municipal financing. Comm & Fin Chr 156:1440 O 22 '42

SEC enters action to get court decision on rule governing over-counter profits; Stewart J. Lee company. Comm & Fin Chr 156:1619 N 5 '42

SEC proposal to force profit disclosure by revealing bid and asked prices is unrealistic and impractical; must be defeated! J. Haynes. Comm & Fin Chr 156:441+ Ag 6 '42

SEC rule on returns to investment company affiliates. Comm & Fin Chr 156:184 Jl 16 '42

SEC rule would force disclosure to customer of best independent bid and asked prices. Comm & Fin Chr 156:442+ Ag 6 '42

Split commissions would benefit both New York stock exchange and over-the-counter firms. F. W. Stephens. Comm & Fin Chr 155:1025+ Mr 12 '42

Prices

London active security prices and yields. Published bi-weekly in the Economist

Security prices, United States, United Kingdom, France, Germany, Netherlands, 1926, 1932-1940 and monthly, Nov. 1940-Nov. 1941. Fed Res Bul 28:91 Ja '42 [cont monthly]

See also
Bonds—Prices
Stocks—Prices

Private placement

See Securities—Marketing

SECURITIES—*Continued*

Regulation

Bid-asked disclosure rule declared detrimental to municipal securities. Comm & Fin Chr 156:1526+ O 29 '42

Challenges authority of SEC to apply disclosure rule to municipal bond field. L. H. Boren. Comm & Fin Chr 156:1250+ O 8 '42

Dealer reaction to SEC bid and asked rule. Comm & Fin Chr 156:442+, 521+, 619+, 707+, 875+, 970+ Ag 6, 13, 20, 27, S 10, 17 '42

Declares investment business paramount to nation; urges simplifying SEC procedure. J. S. Fleek. Comm & Fin Chr 156:1513+ O 29 '42; Excerpts. Inv Banking 13:25-8 D '42

IBA opposes price disclosure rule as not in public interest, impractical, unworkable. Comm & Fin Chr 156:1617, 1628-9, 1698, 1708-9 N 5, 12 '42

Lauds security business regulators. J. S. Fleek. Comm & Fin Chr 156:885 S 10 '42

NASD executive committee submits report opposing SEC bid asked disclosure rule to Commission. Comm & Fin Chr 156:1519+ O 29 '42

Orders action against dealers not revealing to customers exact status of transaction. J. J. Bennett, jr. Comm & Fin Chr 155:2019 My 28 '42

SEC broadens special offerings for exchanges. Comm & Fin Chr 155:1692 Ap 30 '42

SEC proposal to force profit disclosure by revealing bid and asked prices is unrealistic and impractical; must be defeated! J. Haynes. Comm & Fin Chr 156:441+ Ag 6 '42

SEC rule would force disclosure to customer of best independent bid and asked prices. Comm & Fin Chr 156:442+ Ag 6 '42

SEC rules securities registrations are subject to wartime restrictions. Comm & Fin Chr 155:833+ F 26 '42

Securities regulation in the 48 states. J. M. Edelman. 57p bibliog(p56-7) pa 50c Council of state governments, 1313 E. 60th st, Chicago '42

See also

New York stock exchange—Rules
Securities and exchange commission
Stocks—Margin buying

Safe keeping

Precautions are taken to protect stock and bond certificates. Nat Underw 46:15 Ja 1 '42

Statistics

Character and grouping of new corporate issues in the United States, 1937-1941; tabulation. Comm & Fin Chr 155:247-8 Ja 15 '42

New corporate security issues; proposed uses of proceeds, yearly 1934-1941, monthly June 1940-Dec. 1941. Fed Res Bul 28:247 Mr '42 [cont monthly]

New statistics on corporate security issues, monthly, 1934-1941. Fed Res Bul 28:217-19, 247 Mr '42

SEC reports on security offerings for first nine months of 1941. Comm & Fin Chr 155:571 F 5 '42

Summary of corporate, foreign government, farm loan and municipal financing, 1937-1941; tabulation. Comm & Fin Chr 155:247 Ja 15 '42

Canada

Financial Post survey of corporate securities. 220p pa $2 Maclean pub. co, Dominion sq. bldg, Montreal '42

Improved outlook for Canadian securities. F. J. McDiarmid. Barron's 22:18 N 9 '42

Chicago

New delivery plan for Stock clearing corp. Comm & Fin Chr 155:1940 My 21 '42

Germany

Removal of Netherlands blocked marks tax fails to increase share supply on Berlin bourse. For Comm W 5:15-16 N 22 '41

Trading suspended in Axis securities by N.Y. Stock, Curb and Boston stock exchanges; list. Comm & Fin Chr 154:1576 D 18 '41

Great Britain

Bases of the British bull market; shrinkage of investment outlets intensifies effects of a full war economy. B. Ravits. Barron's 22:3 Ap 13 '42

English approach to the distribution of securities. M. E. Murphy. J Business 14:372-83 D '41

Heavy industry shares. Economist 142:897-8 Je 27 '42

Inequities under vesting. Economist 141:539 N 1 '41

London's stock market and ours. J. S. Lawrence. il Banking 35:32-3 N '42

New capital in 1941. Economist 142:18-19 Ja 3 '42; Excerpts. Bankers M 144:233-4 Mr '42

New capital issues, 1941; with comparisons for other years. Economist 142:sup6 Mr 14 '42

Retrospect and prospect. Economist 142:17 Ja 3 '42

Third quarter's capital. Economist 143:424 O 3 '42

What's ahead for U.S. securities? does Britain's market forecast recovery here? A. T. Miller. Mag of Wall St 70:628-31+ O 3 '42

See also

Bonds, Government—Great Britain
London stock exchange

Japan

Trading suspended in Axis securities by N.Y. Stock, Curb and Boston stock exchanges; list. Comm & Fin Chr 154:1576 D 18 '41

Latin America

Investment trusts; possibilities of Latin-American bonds. Comm & Fin Chr 155:1135+ Mr 19 '42

Mexico

Final account filed by committee on Mexico. Comm & Fin Chr 156:458 Ag 6 '42

United States

Capital flotations in the United States during the month of Dec. and for 1941. Comm & Fin Chr 155:243-4 Ja 15 '42

Capital flotations in the United States during the month of February. Comm & Fin Chr 155:1109-11 Mr 16 '42 [cont monthly]

Government financing in '41 75% of cash offerings; new issues of securities offered for cash in the fourth quarter. Comm & Fin Chr 155:1053 Mr 12 '42

Investor and the Securities act. H. V. Cherrington. 255p bibliog(p247-51) $3.25; pa $2.50 Am. council on public affairs, Washington, D.C. '42

Listings on the New York stock exchange for the year 1941. Comm & Fin Chr 155:299-300 Ja 20 '42

SEC 1941 registrations highest since 1937. Comm & Fin Chr 155:1056 Mr 12 '42

SEC reports 79 security issues totaling $366,854,000 registered in 1st quarter. Comm & Fin Chr 155:1877 My 14 '42

Total British sales of U.S. securities. Comm & Fin Chr 155:1333 Ap 2 '42

See also

Bonds, Government—United States
New York curb exchange
New York stock exchange

SECURITIES and exchange commission

Activities of the S.E.C. in accounting and auditing; 7th annual report. J Account 73:573-6 Je '42

Capital structure control of utility companies. E. Troxel. bibliog J Business 15:225-47 Jl '42

SECURITIES and exchange commission—*Cont.*

Challenges authority of SEC to apply disclosure rule to municipal bond field. L. H. Boren. Comm & Fin Chr 156:1250+ O 8 '42

Commonwealth & Southern denied rehearing on one-stock order by SEC. Elec W News ed 117:1733 My 23 '42

Court affirms SEC power over operating companies. Elec W 118:1105-6 O 3 '42

Dealer reaction to SEC bid and asked rule. Comm & Fin Chr 156:442+, 521+, 619+, 707+, 875+, 970+ Ag 6, 13, 20, 27, S 10, 17 '42

Florida court upholds SEC death sentence. Comm & Fin Chr 156:1351 O 15 '42

Ganson Purcell made chairman of SEC. Comm & Fin Chr 155:326 Ja 22 '42

Government financing in '41 75% of cash offerings; new issues of securities offered for cash in the fourth quarter. Comm & Fin Chr 155:1053 Mr 12 '42

Has power over operating companies, SEC holds; opinion in Jacksonville Gas case sets precedent. Elec W News ed 117:1991 Je 6 '42

Hollands to head SEC investment co. division; Paul Rowen appointed administrator in Boston. Comm & Fin Chr 154:1109 N 20 '41

Importance of the Jacksonville case exaggerated. O. Ely. Pub Util 30:562-3 O 22 '42

IBA opposes price disclosure rule as not in public interest, impractical, unworkable. Comm & Fin Chr 156:1617, 1628-9, 1698, 1708-9 N 5, 12 '42

Investment bankers propose SEC changes. Burroughs Clearing House 26:21 Mr '42

Investment trusts and SEC working together. H. A. Long. Barron's 22:20 Mr 2 '42

Is SEC drifting off course? J. Preston. Pub Util 30:399-410 S 24 '42

Judicial decisions, comprising all court decisions, reported and unreported in civil and criminal cases involving statutes administered by the Securities and exchange commission to December 31, 1939. R. MacDonald, comp. v 1 1006p $2 Supt. of doc. '41

Not so dead yet; three holding companies, launch test cases to try commission's power. Business Week p75+ Je 20 '42

Opposes SEC amendments at hearing before House committee in Capitol. E. Schram. Comm & Fin Chr 155:424-5 Ja 29 '42

Plants announced to study joint problems confronting SEC and the securities industry. Comm & Fin Chr 156:265+ Jl 23 '42

S.E.C. administrative policy on financial statements. B. B. Greidinger. J Account 73:219-24 Mr '42

SEC announces its acceleration policy. Comm & Fin Chr 154:1551 D 18 '41

SEC changes in rules on employees' securities company exemptions and holdings of securities of underwriters by trustee or its parents or subsidiaries. Comm & Fin Chr 154:1555 D 18 '41

SEC continues Holding act enforcement; 7th annual report. Pub Util 29:704-7 My 21 '42

SEC integration of holding company systems. R. Blum. J Land & Pub Util Econ 17:423-39 N '41; Abstract. Pub Util 29:178-80 Ja 29 '42

SEC issues industry reports; agricultural machinery and automobiles and other types of vehicles. Comm & Fin Chr 154:1563 D 18 '41

SEC issues industry reports on manufacturers of machine tools, metal working machinery and manufacture of aircraft and aircraft equipment. Comm & Fin Chr 154:1342 D 4 '41

SEC issues report on manufacturers of chemicals, fertilizers. Comm & Fin Chr 155:144 Ja 8 '42

SEC issues reports 20 and 21 on more listed corporations. Comm & Fin Chr 156:376 Jl 30 '42

SEC issues survey of listed corporations. Comm & Fin Chr 155:1938 My 21 '42

SEC issues two industry reports; oil refining and non-ferrous metals industries. Comm & Fin Chr 155:118 Ja 8 '42

SEC proposal to force profit disclosure by revealing bid and asked prices is unrealistic and impractical; must be defeated! J. Haynes. Comm & Fin Chr 156:441+ Ag 6 '42

SEC regulation S-X applied to unit trusts. Comm & Fin Chr 155:243 Ja 15 '42

SEC reports on building equipment and materials. Comm & Fin Chr 156:175 Jl 16 '42

SEC reports on security offerings for first nine months of 1941. Comm & Fin Chr 155:571 F 5 '42

SEC rule would force disclosure to customer of best independent bid and asked prices. Comm & Fin Chr 156:442+ Ag 6 '42

SEC starts trek to Philadelphia. Comm & Fin Chr 155:930 Mr 5 '42

SEC summary of proposed proxy rule revision. Comm & Fin Chr 156:893 S 10 '42

SEC widens restrictions on defense disclosures. Comm & Fin Chr 155:27 Ja 1 '42

SEC's handful of fights. Business Week p95-7 N 7 '42

Some proposed amendments to securities laws a threat to investors. G. Purcell. Comm & Fin Chr 154:1338-9 D 4 '41

Stresses SEC cooperation before IBA. E. C. Eicher. Comm & Fin Chr 154:1447 D 11 '41

Testify against SEC amendments at hearing before House committee. G. P. Rea and others. Comm & Fin Chr 155:410, 437 Ja 29 '42

Text of SEC rule establishing maximum indebtedness ratio for brokers and dealers. Comm & Fin Chr 156:1618 N 5 '42

Text of SEC's opinion disapproving proposed minimum capital by-law of NASD. Comm & Fin Chr 156:1618, 1627+ N 5 '42

Utilities challenge SEC in court tests. Elec W News ed 117:2152 Je 20 '42

Findings and opinions

Findings and opinions. Published in monthly numbers of Journal of accountancy

SECURITY traders association, National. See National security traders association

SEDIMENTATION

Analytical cell for the ultracentrifuge. M. Rosenfeld. il diag R Sci Instr 13:154-7 Ap '42

Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42

Determination of particle size distribution for particle sizes between 40 and 1 or 2 microns. W. O. Hinkley. Ind & Eng Chem Anal ed 14:10-13 Ja 15 '42; Correction. 14:297 Ap 15 '42

Electrophoretic and ultracentrifugal analysis of hay-fever-producing component of ragweed pollen extract. H. A. Abramson, D. H. Moore and H. H. Gettner. bibliog il J Phys Chem 46:192-203 Ja '42

Paint dispersions; a particle size distribution approach to solid-liquid systems. S. W. Martin. il Can Chem & Process Ind 26:451-6 Ag '42

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14:622-32 Ag 15 '42

Sedimentation and flocculation. M. B. Donald. bibliog Inst Chem Eng Trans 18:24-8; Discussion. 28-35 '40

Settling and thickening of aqueous suspensions. K. Kammermeyer. bibliog il Ind & Eng Chem 33:1484-91 D '41

Ultracentrifugal analysis of pepsin-treated serum globulins. M. L. Petermann. bibliog J Phys Chem 46:183-91 Ja '42

Ultracentrifuge; practical aspects of the ultracentrifugal analysis of proteins. E. G. Pickels. bibliog il diags Chem R 30:341-55 Je '42

See also

Particles

SEDIMENTATION and deposition

Deposition of free oil by sediments settling in sea water. O. A. Poirier and G. A. Thiel. pls Am Assn Pet Geologists Bul 25:2170-80 D '41

SEDIMENTATION and deposition—*Continued*

Geological extrapolation and pseud-abyssal sediments. W. G. Woolnough. bibliog Am Assn Pet Geologists Bul 26:765-92 My '42

Geomorphology of the Ventura region, California. W. C. Putnam. fold map maps Geol Soc Bul 53:691-754, pl 1-5 bibliog(p752-4) My '42

Late pleistocene and recent deposits in the Connecticut valley, Massachusetts. R. H. Jahns and M. E. Willard. bibliog pls diags maps Am J Sci 240:161-91, 265-87 Mr-Ap '42

Lateral gradation in the Seven Rivers formation, Rocky Arroyo, Eddy county, New Mexico. R. L. Bates. bibliog il maps Am Assn Pet Geologists Bul 26:80-99 Ja '42

Marine sedimentation and oil accumulation on Gulf coast; progressive marine overlap. D. S. Malkin and D. A. Jung. diags maps Am Assn Pet Geologists Bul 25:2010-20 N '41

Nondepositional physiographic environments off the California coast. F. P. Shepard. bibliog Geol Soc Bul 52:1869-86, pl 1-2 D '41

Permian of west Texas and southeastern New Mexico; sedimentation and tectonics in Guadalupe Mountains region. P. B. King. bibliog diags maps Am Assn Pet Geologists Bul 26:613-42 Ap '42

Pre-Cambrian metasediments in Grand Teton national park, Wyoming. L. Horberg and F. Fryxell. maps Am J Sci 240:385-93, pl 1-2 Je '42

Principles of sedimentation and the search for stratigraphic traps. W. C. Krumbein. diags maps Econ Geol 36:786-810 D '41

Report of the committee on sedimentation. 110p $1 National research council '42

Sedimentation and volcanism in the Hopi Buttes, Arizona. J. T. Hack. bibliog diags maps Geol Soc Bul 53:335-72, pl 1-5 F '42

Source of beach and river sands on Gulf coast of Texas. F. M. Bullard. bibliog maps Geol Soc Bul 53:1021-43, pl 1-3 Jl '42

Time relations in ocean sediments. C. S. Piggot and W. D. Urry. bibliog Geol Soc Bul 53:1187-1210 Ag '42

Transgressive and regressive cretaceous deposits in southern San Juan basin, New Mexico. J. D. Sears, C. B. Hunt and T. A. Hendricks. diags map U S Geol S Professional Pa 193-F:101-21, pl 25-31; pa 35c Supt. of doc. '41

See also
Erosion
Rocks
Silt

SEDIMENTATION apparatus

Apparatus for particle size analysis. il diag Engineering 154:141-2, 181-2, 221-3, 241-2 Ag 21, S 4, 18-25 '42

SEDIMENTS

Anisotropy of ferromagnetic powder particles. E. T. Benedikt. diag J Ap Phys 13:105-9 F '42

Distribution graphs of suspended-matter concentration. J. W. Johnson. bibliog Am Soc C E Proc 68:1383-98 O '42

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

Radioactivity of ocean sediments; concentrations of the radio-elements and their significance in red clay. W. D. Urry and C. S. Piggot. bibliog Am J Sci 240:93-103 F '42

Radioactivity of ocean sediments; radium content of sediments of the Cayman trough. C. S. Piggot and W. D. Urry. bibliog Am J Sci 240:1-12 Ja '42

Sediments of Grassy lake, Vilas county, a large bog lake of northern Wisconsin. W. H. Twenhofel, S. L. Carter and V. E. McKelvey. bibliog diag map Am J Sci 240:529-46 Ag '42

Society of economic paleontologists and mineralogists; symposium on changes in recent sediments. Oil & Gas J 40:58-9 Ap 23 '42

Studies on Connecticut Lake sediments; the biostratonomy of Linsley pond. E. S. Deevey, jr. diags Am J Sci 240:233-64, 313-24 bibliog(p322-4) Ap-My '42

Time relations in ocean sediments. C. S. Piggot and W. D. Urry. bibliog Geol Soc Bul 53:1187-1210 Ag '42

See also
Mud
Silt
Water purification

SEDITION

Sedition trial verdict. Business Week p98 D 6 '41

SEEDS

Develop infra-red seed conditioner. J. E. Nicholas. il Elec W 117:1224 Ap 4 '42

Seed preparation; electrical methods widely adopted; Edward Webb & sons. il Elec R (Lond) 131:103-6 Jl 24 '42

See also
Cottonseed
Flaxseed
Germination
Sunflower seed

Prices

Seeds price ceiling status clarified. Oil Paint & Drug Rep 141:5+ Je 15 '42

SEEING eye, incorporated, Morristown, New Jersey

Dogs against darkness; the story of the Seeing eye. D. Hartwell. 236p $3 Dodd '42

SEERSUCKER

Seersucker and its variations. J. Hoye. il Textile World 92:84-5 O '42

SEIBERT, Florence B.

To receive Garvan medal. por Chem & Eng N 20:1004 Ag 25 '42

SEISMIC prospecting. See Prospecting—Geophysical methods

SEISMOGRAPHS

Advances in engineering seismology, from report on work of the U.S. Coast and geodetic survey. N. H. Heck. il Civil Eng 12:30-4 Ja '42

Case history of a seismic shot; record of a reflection seismograph. il Explosives Eng 20:112-13 Ap '42

SEISMOMETRY

See also
Earthquakes

SELECTIVE selling. See Sales policies—Selective selling

SELECTIVE service. See Military service, Compulsory

SELECTIVE training and service act. See Military service, Compulsory

SELENIC acid

Secondary ionization and activity coefficients of selenic acid. R. W. Gelbach and G. B. King. bibliog Am Chem Soc J 64:1054-7 My '42

SELENINIC acid

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

SELENIOUS acid

Color reactions of organic nitrogen compounds with selenious acid-sulfuric acid solution. B. T. Dewey and A. H. Gelman. bibliog Ind & Eng Chem Anal ed 14:361-2 Ap 15 '42

SELENIUM

Absorption of selenium by corn from astragalus extracts and solutions containing proteins. S. F. Trelease, S. S. Greenfield and A. A. DiSomma. Science 96:234-5 S 4 '42

Characteristics and applications of the selenium rectifier. E. A. Richards. diags Inst E E J 88 pt 2:423-38, pl 1-2; Discussion. 438-42 O '41; Same. 88 pt 3:238-57, pl 1-2 D '41; Discussion. 89 pt 2:163-4, 371-2 Ap, Ag '42; 89 pt 3:73-4, 176-7 Mr, S '42

Effect of light on color of glass. A. E. Badger and A. C. Ottoson. bibliog Am Cer Soc J 25:104-8 F 15 '42

Industrial utilization of selenium and tellurium. G. R. Waitkins, A. E. Bearse and R. Shutt. il diag Ind & Eng Chem 34:899-910 bibliog(143 references, p909-10) Ag '42

SELENIUM—*Continued*

Metal rectifiers. A. L. Williams and L. E. Thompson. diags Inst E E J 88 pt 1:353-71 bibliog(130 references, p369-71); Discussion. 371-83 O '41

Oxidation-reduction equilibria in glass between iron and selenium in several furnace atmospheres. F. Day, jr. and A. Silverman. bibliog diag Am Cer Soc J 25:371-81 S 1 '42

Selenium and tellurium; an examination of their uses in chemistry and metallurgy. Chem Age (Lond) 67:259-62 S 19 '42

Selenium and tellurium in industry; abstracts. R. S. Shutt and G. R. Waitkins. Chem & Met Eng 49:154-5 Ap '42; Min & Met 23: 346 Je '42

Selenium and tellurium now valuable metals. Product Eng 13:171 Mr '42

Selenium black glass. C. R. Austin and J. D. Sullivan. Am Cer Soc J 25:128-9 Mr 1 '42

Selenium rectifiers. C. A. Clarke. il diags Product Eng 13:135-8, 266-8 Mr, My '42

Selenium rectifiers and their design. J. E. Yarmack. bibliog il Elec Eng 61:Trans 488-95 Jl '42

Selenium ruby glass. J. D. Sullivan and C. R. Austin. il Am Cer Soc J 25:123-7 Mr 1 '42

See also
Selenium poisoning

SELENIUM cells

Illumination measurements with light-sensitive cells. C. L. Dows. il diag Illum Eng 37:103-12 F '42

Industrial utilization of selenium and tellurium. G. R. Waitkins, A. E. Bearse and R. Shutt. il diag Ind & Eng Chem 34:900-1 Ag '42

Selenium cells detect incendiary bombs. J. M. Hawkins. Illum Eng 36:951 D '41

Selenium photoelectric cells; abstract. G. Berraz and E. Virasoro. Chem & Met Eng 49: 222 S '42

SELENIUM compounds

Crystal structure of diphenylselenium dichloride. J. D. McCullough and G. Hamburger. Am Chem Soc J 64:508-13 Mr '42

Industrial utilization of selenium and tellurium; chemical uses. G. R. Waitkins, A. E. Bearse and R. Shutt. il Ind & Eng Chem 34:905-9 Ag '42

Potassium alkaneselenonates and other alkyl derivatives of selenium. M. L. Bird and F. Challenger. Chem Soc J p570-4 S '42

SELENIUM oxides

Oxidation of β-pinene with selenium dioxide. L. M. Joshel and S. Palkin. bibliog Am Chem Soc J 64:1008-9 Ap '42

Reactions of β-pinene; with selenium dioxide in acetic acid. W. D. Stallcup and J. E. Hawkins. Am Chem Soc J 64:1807-9 Ag '42

Reactions of β-pinene; with selenium dioxide in various solvents. W. D. Stallcup and J. E. Hawkins. bibliog Am Chem Soc J 63:3339-41 D '41

SELENIUM poisoning

Identification of selenium indicator species of astragalus by germination tests. S. F. Trelease. Science 95:656-7 Je 26 '42

Selenium problem in the Great Plains; abstract. A. L. Moxon. Can Chem & Process Ind 25:639-40 D '41

Toxicology of selenium; effects of subacute exposure to hydrogen selenide. H. C. Dudley and J. W. Miller. bibliog diag J Ind Hygiene 23:470-7 D '41

SELENONIC acid

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

SELF confidence

Four ways to build your self-confidence. D. A. Laird. Am Business 11:15-16+ N '41

SELF inductance. See Inductance

SELF service stores

Drug store products have come out of hiding. C. M. Higgins. il Adv & Sell 35:23, 61-2 O '42

Self-service pricing; white spot for price-marking. il Mod Packaging 16:48-50 N '42

Women now read advertising more eagerly than ever. F. R. Coutant. il Ptr Ink 199: 13-14+ Je 26 '42

See also
Department stores—Self service

SELIGMANN, Kurt, 1900-

Twelve artists in U.S. exile. Fortune 24:112-13 D '41

SELSYN apparatus

Aircraft instruments. C. F. Savage. il diag Gen Elec R 45:495-7 S '42

Automatic control of boring mills obtained by accurately cut screws; Selsyn thyratron and amplidyne apparatus. R. Hillner and K. K. Bowman. il diags Mach 48:138-42 D '41

D-c telemeter or d-c Selsyn for aircraft. R. G. Jewell and H. T. Faus. il diags Elec Eng 61:Trans 314-17 Je '42

Power Selsyn error corrected; adjustable-speed conveyors. W. F. Morse. Elec W 117: 114 Ja 10 '42

Water level regulates generator load; Grandfather Falls hydroelectric plant. diag Elec W 117:1702 My 16 '42

SEMANTICS

Discussion of S. I. Hayakawa's book Language in action. E. N. Teall. Inland Ptr 109:56 Ag '42

Even chicks not immune to lure of semantics. E. N. Teall. Inland Ptr 109:64 Ap '42

Has the meaning of dumb changed? E. N. Teall. Inland Ptr 109:45-8 S '42

Introduction to semantics. R. Carnap. 263p bibliog (p253-6) $3.50 Harvard univ. press '42

Language habits in human affairs; an introduction to general semantics. I. J. Lee. 278p $1.75 Harper '41

Semantics is more than some antics. E. N. Teall. Inland Ptr 108:58-9 F '42

SEMICARBAZONES

Observations on the absorption spectra of terpenoid componds; five-atom-ring unsaturated ketones. A. E. Gillam and T. F. West. Chem Soc J p486-8 Ag '42

See also
Thiosemicarbazones

SEMI-CONDUCTORS. See Electric conductors—Semi-conductors

SENDZIMIR mill

Armco introduces Sendzimir mill. il diags Iron Age 150:55-7 Jl 23 '42

SENIORITY. See Employees—Length of service

SENNA

United States imports of senna. For Comm W 5:29 N 22 '41

SENSES and sensation

See also
Hearing
Sight

SENSITIZATION. See Photographic emulsions

SENSITOMETRY. See Photography—Sensitometry

SEPARATION

Grinding and slag dumps. G. W. Jarman, jr. Mech Eng 64:458-9 Je '42

Particle sizing and hydroseparation in phosphate recovery. B. J. Larpenteur. flow sheets il Eng & Min J 143:50-1 Mr '42

Separation processes enter new fields. il diag Rock Prod 45:81-4+ Ja '42

See also
Distillation apparatus
Dust
Dust removal
Electric precipitation
Electrostatic separators
Filters and filtration
Filters and filtration (technical chemistry)
Flotation process
Magnetic separation of ores
Magnetic separators
Ore treatment
Osmosis
Separators

SEPARATORS
Bottom-hole separator conserves reservoir gas pressure. K. Kelley. il diag Pet Eng 13:31-2 S '42

Central separator provides flexible control at Paradis. N. Williams. il Oil & Gas J 40: 29-30 F 12 '42

Hydraulic separator designed to remove sticks, bark, driftwood, shale, etc. from gravel. diags Rock Prod 45:60 Ap '42

Overcoming difficulty of separating water from slop oil in refinery. R. G. Lovell. diags Pet Eng 13:90, 92, 94+ Ap '42

Reporting what's new in equipment. il diag Chem & Met Eng 48:121-3 N '41

See also
Centrifuges
Clarifiers
Classifiers
Dialyzers
Dust collectors
Electrostatic separators
Evaporators
Filters and filtration (technical chemistry)
Magnetic separators
Screens
Steam traps
Thickeners

SEPARATORS, Electrostatic. See Electrostatic separators

SEPEDONIUM
Some aspects of microbiology in the treatment of sewage. T. G. Tomlinson. il Soc Chem Ind J 61:53-8 Ap '42

SERIAL publications
See also
Periodicals

SERPENTINE superphosphate. See Phosphates

SERUM
Antigenic properties of native and regenerated horse serum albumin. H. Neurath, J. O. Erickson and G. R. Cooper. bibliog Science 96:116-17 Jl 31 '42

Dried serum for military use. W. H. Pitcher. il Can Chem & Process Ind 26:234, 236 Ap '42

Effect of urea on the electrophoretic patterns of serum proteins. D. H. Moore. il Am Chem Soc J 64:1090-2 My '42

Flask for separation of serum from blood. F. E. Holmes and B. Johnson. diags Ind & Eng Chem Anal ed 14:62 Ja 15 '42

Individual specificity of dog serum and plasma. N. E. Freeman and A. E. Schecter. Science 96:39 Jl 10 '42

See also
Antigens and antibodies

SERUMTHERAPY
Antitularemic serum. E. Francis and L. D. Felton. Pub Health Rep 47:44-55 Ja 9 '42

Immune serum in the treatment of influenza. J. Stafford. Science 96:sup10 O 9 '42

See also
Antigens and antibodies
Toxins and antitoxins

SERVANTS
Colored maids' classes pay dividends; Home service department of United gas corp. Houston, Texas. il Gas Age 89:23 F 26 '42

Woman domestic workers in Washington, D.C. 1940. G. Fox. Monthly Labor R 54: 338-59 F '42

SERVICE charge. See Banks and banking—Service charge

SERVICE companies. See Electric utilities—Service companies

SERVICE (in industry)
Marketing slag as ready mix; Cleveland slag co. builds modern batching plant as a service in supplying concrete to dealers. il Rock Prod 45:104-5 Ag '42

Program for advertising manager, now; helping service and research departments; postwar planning. R. M. Oliver. il Ptr Ink 200: 54-5 Jl 17 '42

Revere helps customers switch from peace to war production; technical advisory service. il Sales Management 50:40-1 Ap 20 '42

Willcox & Gibbs break plant bottlenecks; help customers qualify for war orders; sewing machine manufacturer helps garment factories. il Sales Management 51:42+ Jl 15 '42

See also
Banks and banking—Service
Customer relations
Dealer helps
Electric apparatus industry—Service
Electric utilities—Service
Gas companies—Service
Retail trade—Service
Salesmanship—Service

SERVICE industries
Consumer services placed under March price ceilings. Survey of Cur Business 22:4 Jl '42

Large order; WPB branch has job of passing on problems of service industries. Business Week p32+ My 23 '42

Price ceilings removed for 25 retail services. Comm & Fin Chr 156:823 S 3 '42

See also
Banks and banking
Cleaning industry
Garages
Hotels
Laundries
Photography, Commercial
Railway express agency

Statistics

Consumer expenditures for selected groups of services, 1929-41. E. F. Denison. Survey of Cur Business 22:23-30 O '42

Consumer expenditures for services, 1929-1941; chart. Survey of Cur Business 22:3 Mr '42

Monthly estimates of total consumer expenditures, 1935-42. W. C. Shelton and L. J. Paradiso. Survey of Cur Business 22:8-14+ O '42

Sixteenth census of the United States: 1940; census of business; service establishments, 1939. R. C. Janoschka and K. C. Morse. 251p U.S. Bur. of the census, Washington; 25c Supt. of doc. '41

SERVICE organizations for national defense, United. See United service organizations for national defense

SERVICES of supply. See United States—Army—Services of supply

SERVO-MECHANISMS
Applying hydraulic servo circuits in machines; steering booster for use on heavy vehicles. C. E. Grosser. diags Machine Design 14:122-4+ Ap '42

Designing hydraulic servo-circuits. C. E. Grosser. diags Machine Design 14:52-6+ Ja '42

SESAME
Fertile tetraploids of sesame, sesamum indicum Loew, induced by colchicine. D. G. Langham. Science 95:204 F 20 '42

SESAME oil
Expression of vegetable oils; general equation on oil expression. E. C. Koo. bibliog Ind & Eng Chem 34:342-5 Mr '42

Promising sesame experiments in Venezuela. For Comm W 8:23 S 19 '42

SESQUITERPENE ketones. See Ketones

SETTLING. See Sedimentation

SETTLING basins
Installing and operating a settling basin baffle system. H. M. Frye. il diags Pub Works 72:16-18 D '41

Water conditioning by flocculation. S. L. Tolman. bibliog diag Am Water Works Assn J 34:404-11 Mr '42

SETTLING tanks
Operation of sewage treatment plants; second revised edition; mechanically cleaned sedimentation tanks. il diags plan Pub Works 73:42, 47-8 O '42

Philips magnetic filter unit for use in settling tanks. il diag Electrician 129:335 S 25 '42; Engineer 174:284 O 2 '42

Something new in settling tank design; tank installed at summer camp. H. Moore. il diags Eng N 129:502-4 O 8 '42

SEWAGE

Operation of sewage treatment plants; second revised edition; sewage characteristics and composition. plan Pub Works 73:25-6+ O '42

See also

Distilleries—Waste
Sewage sludge
Sewerage
Trade waste

Analysis

Determination of grease in sewage, sludge, and industrial wastes. R. Pomeroy and C. M. Wakeman. bibliog Ind & Eng Chem Anal ed 13:795-801 N 15 '41

Dissolved oxygen recordings with the dropping mercury electrode. R. S. Ingols. bibliog il Ind & Eng Chem Anal ed 14:256-8 Mr 15 '42

Operation of sewage treatment plants; second revised edition; tests and how to make them. Pub Works 73:28+ O '42

Sludge triangle; rapid method for determining solids. G. E. Symons and S. R. Kin. bibliog diags Water Works & Sewerage 89:17-23, 156-8 Ja, Ap '42

Studies of sewage purification; determination of dissolved oxygen in activated sludge-sewage mixtures. C. C. Ruchhoft and O. R. Placak. bibliog Pub Health Rep 57:1047-60 Jl 17 '42

Bacteriology

Bad Benny, the bacterium; popularized story of water purification and sewage treatment. J. J. Wickham. il Water Works & Sewerage 88:550-2 D '41

Cultural characteristics of zooglea-forming bacteria isolated from activated sludge and trickling filters. E. Wattie. bibliog pl Pub Health Rep 57:1519-34 O 9 '42

Gas recovery

See Sewage sludge—Gas production

Phosphorus content

Phosphine and sludge digestion. W. Rudolfs and G. W. Stahl. bibliog diag Ind & Eng Chem 34:982-4 Ag '42

Testing

Operation of sewage treatment plants; second revised edition; tests and how to make them. Pub Works 73:28+ O '42

SEWAGE, Utilization of

Decomposition of land fill material; abstract. R. Eliassen. Water Works & Sewerage 88:510 N '41

Filter cake fuel. Eng N 127:746 N 20 '41

Some considerations concerning the siting of power stations; sewage effluent for circulating water. F. Favell. Inst E E J 89 pt 2:223-4 Je '42

See also

Sewage sludge—Gas production
Sewage sludge as fertilizer

SEWAGE disposal

Acid waste treatment needs accentuated by war effort. Eng N 129:504 O 8 '42

Action on the municipal front. E. J. Cleary. il Eng N 128:95-6 Ja 15 '42

Arizona sewage and water works association meeting, Tucson, April 10-11. Water Works & Sewerage 89:198-200 My '42

California sewage works association meeting, Los Angeles, Sept. 20-22. Water Works & Sewerage 89:441-4 O '42

Central states sewage works association 15th annual meeting, Minneapolis, June 18-19. Water Works & Sewerage 89:355-60 Ag '42

Cities find cooperation desirable in providing sewage disposal service. Eng N 129:495 O 8 '42

Combined complete treatment of medium and high concentration wastes; regenerative digestion process and oxidized sludge process. E. B. Mallory. flow diag il diags Water Works & Sewerage 89:143-55; Discussion. E. F. Eldridge. 155 Ap '42

Control of pollution from sewage effluents. N. J. Howard. il Water & Sewage 80:17-18+ O '42

Developments and trends in sewerage practices of 1941. S. A. Greeley and P. Hansen. il diags Water Works & Sewerage 89:51-64 F '42

Effect of yeast in the stabilization of sewage and sludge digestion. H. Heukelekian. Pub Works 73:17-18 S '42

Emergency treatment of army camp sewage. F. Backmann. Eng N 129:107 Jl 16 '42

Expansion in sulphite liquor disposal seen; report outlines progress. Paper Tr J 114:8 Je 18 '42

Good practice in sludge disposal; report of symposium at meeting of American society of civil engineers. W. Rudolfs. il Eng N 128:330-3 F 26 '42

Headline projects of 1941. il Eng N 128:123 Ja 15 '42

Michigan sewage works association 17th annual conference, East Lansing, March 25-27. Water Works & Sewerage 89:159-60 Ap '42

New Jersey sewage works association's 27th convention, Trenton, March 5-6. Water Works & Sewerage 89:111-16 Mr '42

New sanitary sewage facilities for San Diego. B. D. Phelps and R. C. Stockman. il plans Civil Eng 12:17-20 Ja '42

N.Y. sewage works association features wartime problems at Albany meeting. Water Works & Sewerage 89:315-19 Jl '42

New York state sewage works association 14th annual meeting, New York, Jan. 23-24. Water Works & Sewerage 89:75-9 F '42

North Carolina sewage works assn, annual meeting, High Point, Nov. 3-5. Water Works & Sewerage 89:46-7 Ja '42

Operating experiences at Anacostia sewage plant. Eng N 129:231 Ag 13 '42

Operation of sewage treatment plants; second revised edition. il diags plans Pub Works 73:12-13, 25-6, 28+ O '42

Phosphine and sludge digestion. W. Rudolfs and G. W. Stahl. bibliog diag Ind & Eng Chem 34:982-4 Ag '42

Proceedings of the fifteenth annual conference, the Maryland-Delaware water and sewerage association, Washington, D.C., May 8-9, 1941. 96p pa $1 Maryland-Delaware water and sewerage assn, Carl J. Lauter, sec-treas, 5902 Dalecarlia pl, NW, Washington, D.C. '41

Progress and prospects in water-supply and sewerage works. A. E. Berry. il plan Water & Sewage 80:7-10+ Ja '42

Protection of water supplies during emergencies. W. L. Mallmann. Water Works & Sewerage 89:361-2 Ag '42

Protective and remedial measures for sanitary and public health engineering services; progress report of the national committee of the Society, on civilian protection in war time. Am Soc C E Proc 68:121-6 Ja '42

Review of Ferrisul applications in water and sewage treatment; abstract. F. K. Burr and J. J. McCarthy. Can Chem & Process Ind 26:618 O '42

Sewage disposal design for wartime industrial plants. M. H. Klegerman. il diag Eng N 129:492-5 O 8 '42

Sewage disposal facilities in Nation adequate for public health protection; Federation of sewage works associations meeting. Eng N 129:602+ O 29 '42

Sewage disposal problems at army camps; abstract. P. Hansen. Water Works & Sewerage 88:509 N '41

Sewerage and sewage treatment. W. A. Hardenbergh. 2d ed 454p $4 International textbook co, Scranton, Pa. '42

Sludge digestion; abstract. L. H. Enslow. Water Works & Sewerage 88:497-8 N '41

Sludge digestion; design studies, observations and developments, Cleveland. W. E. Gerdel. il Water Works & Sewerage 89:409-15 O '42

Sludge digestion temperature control with live steam. A. M. Rawn. il plan Water Works & Sewerage 89:310-13 Jl '42

Study of laundry waste treatment; Lawrence experiment station. J. A. McCarthy. Pub Works 73:13-15+ Jl '42

SEWAGE disposal—*Continued*

Summary of census data on sewerage systems in the United States. Pub Health Rep 57:409-21 Mr 20 '42

Third year of sewage treatment operation at Buffalo, New York. C. R. Velzy, J. W. Johnson and G. E. Symons. bibliog flow sheet il Pub Works 73:27-8+ Ja; 26-30 F '42

Treating pickling liquors for removal of toxic metals. G. E. Barnes and M. M. Braidech. diags Eng N 129:496-9 O 8 '42

Water and sewerage design problems in a boomtown area; Danville and Middletown, Iowa. C. M. Stanley. diags Eng N 128:548-50 Ap 9 '42

Western section of N.Y. sewage works association meets in Olean. Water Works & Sewerage 89:210-11 My '42

Wisconsin sewage works operators meet at Wausau. R. W. Frazier. Water Works & Sewerage 89:275-6 Je '42

See also

Plumbing
Refuse disposal
Sewage disposal plants
Sewage incinerators
Sewage pumping
Sewage sludge
Sewer cleaning
Sewer pipes
Sewerage
Trade waste
Water pollution

Activated sludge method

Biochemical studies on the purification mechanism of activated sludge; abstract. M. Watanabe. Am Water Works Assn J 34:630-1 Ap '42

Control of activated sludge bulking; abstract. E. E. Smith. Water Works & Sewerage 89: sup202 Je '42

Cultural characteristics of zooglea-forming bacteria isolated from activated sludge and trickling filters. E. Wattie. bibliog pl Pub Health Rep 57:1519-34 O 9 '42

Dissolved oxygen recordings with the dropping mercury electrode. R. S. Ingols. bibliog il Ind & Eng Chem Anal ed 14:256-8 Mr 15 '42

Effect of distributed loading on the activated sludge process; abstract. J. E. McKee and G. M. Fair. Water Works & Sewerage 88: 515-16 N '41

Flow equalization; abstract. L. J. Artist. Eng N 127:898 D 18 '41

Has the use of the activated-sludge system been justified? twenty-four years' experience of Canadian municipalities. A. E. Berry. il Water & Sewage 80:17-20 F '42

Ironing out the operation of the new activated sludge plant at Hackensack, N.J.; abstract. A. F. Lehmann. Water Works & Sewerage 89:113 Mr '42

Maintaining open diffuser plates with chlorine at Jackson, Michigan. R. B. Jackson. il Water Works & Sewerage 89:380-2 S '42

Operation of sewage treatment plants; second revised edition; activated sludge. il Pub Works 73:48+ O '42

Operation of the Wards Island sewage treatment plant. G. P. Edwards. il diags map Boston Soc E J 29:229-39 Jl '42

Sewage and garbage disposal plant at Gary, Ind. W. P. Cottingham. il Civil Eng 12: 305-8 Je '42

Sewage sludge digestion at Marion, Indiana; nine months' operation of activated sludge, digestion, vacuum filtration plant. D. Backmeyer. il plan Pub Works 72:12-14+ N '41

Studies of sewage purification; determination of dissolved oxygen in activated sludge-sewage mixtures. C. C. Ruchhoft and O. R. Placak. bibliog Pub Health Rep 57:1047-60 Jl 17 '42

Two-stage aeration; recent development in activated sludge plant design. C. A. Scott. flow diag Water Works & Sewerage 89:407 S '42

Aeration

Contact aerators; abstract. L. B. Griffith. Eng N 127:746 N 20 '41

Two-stage aeration; recent development in activated sludge plant design. C. A. Scott. flow diag Water Works & Sewerage 89: 407 S '42

Bibliography

Information on water and sewage works problems; where to find it; revised. L. H. Enslow. Water Works & Sewerage 89: sup17-18 Je '42

Chemical treatment

See also

Sewage disposal—Coagulation

Chlorination

Chlorination of sewage effluents. W. W. Watmough. bibliog il Can Eng W & S 79:11-12+ N '41

Control of odorous and destructive gases in sewers and treatment plants. C. C. Hommon. il Water Works & Sewerage 89:277-80 Je '42

Dosage control in sewage chlorination. G. E. Symons, J. W. Johnson and R. W. Simpson. bibliog Water Works & Sewerage 88: 519-24 N '41

Operation of sewage treatment plants; second revised edition; disinfection of sewage. Pub Works 73:60-2 O '42

Relation of disposal of sewage and water purity as exemplified by Toronto's problem. N. J. Howard. plan Water & Sewage 80:21, 126-8 Je '42

Research and control; sewage chlorination in America. N. J. Howard. il Water & Sewage 80:29-30+ Mr '42

Sewage chlorination for odor control; effects of sub-residual chlorine dosages on hydrogen sulfide. H. Heukelekian. Water Works & Sewerage 89:302-4 Jl '42

Coagulation

Operation of sewage treatment plants; second revised edition; chemical treatment. il Pub Works 73:59-60 O '42

Role of chemicals in industrial waste treatment; canneries, paper mills, beet sugar factories, slaughter-houses, laundries, etc. E. F. Eldridge. il Water Works & Sewerage 89:341-6 Ag '42

Cost

See also

Sewage disposal plants—Cost

Filtration

Alternating double filtration. A. Parker. Water & Sewage 80:27+ Mr '42; Same cond. Engineering 152:484-5 D 19 '41; Excerpts. Engineer 172:422 D 12 '41; Chem & Ind 60: 911 D 27 '41; Abstracts. Chem & Met Eng 49:194-5 My '42; Chem Age (Lond) 45:299 D 13 '41

Alternating double filteration aids overloaded sewage plant. Eng N 129:217 Ag 13 '42

Army bio-filter sewage plant provides unusual flexibility. il plan Eng N 129:173-5 Jl 30 '42

Biology of sprinkling filters; abstract. R. H. Holtje. Water Works & Sewerage 89:112 Mr '42

Cleaning encrusted pipe lines and vacuum filters by use of inhibited muriatic acid. K. L. Mick. Water Works & Sewerage 89: 314 Jl '42

Cultural characteristics of zooglea-forming bacteria isolated from activated sludge and trickling filters. E. Wattie. bibliog pl Pub Health Rep 57:1519-34 O 9 '42

Effluent excellence. E. B. Mallory. il Water Works & Sewerage 88:564-5 D '41

First year of operation of the Liberty biofilter plant. J. Lawrence and H. Eichenauer. plan Pub Works 72:14-15+ D '41

Flexible sewage treatment for army camps. R. Eliassen. il plans Civil Eng 11:707-10 D '41

How to double sewage filter capacity. Eng N 128:342 F 26 '42

Operating results on five army biofilter plants; details of operation to date of sewage treatment plants at Camps Polk, Livingston, Wallace and Wolters and Fort Bragg. il Pub Works 73:19-20+ My '42

SEWAGE disposal—Filtration—*Continued*

Operation of sewage treatment plants; second revised edition; trickling filter operation; contact beds and sand filters. il diags Pub Works 73:54, 56, 58-9 O '42

Operation results of the Liberty, N.Y. biofilter plant for the summer of 1942. il Pub Works 73:23-4 O '42

Present status of biofiltration. A. J. Fischer. flow sheets il plans Water Works & Sewerage 89:416-25 O '42

Recirculating high rate filter in industrial waste treatment. E. F. Eldridge. il diags Water Works & Sewerage 88:483-90 N '41

Some aspects of microbiology in the treatment of sewage. T. G. Tomlinson. il Soc Chem Ind J 61:53-8 Ap '42; Abstract and discussion. Chem & Ind 61:153-4 Mr 28 '42

Studies of sewage purification; effective bacteria in purification by trickling filters. C. T. Butterfield and E. Wattie. bibliog diag Pub Health Rep 56:2445-64, pl 1 D 26 '41

Two-stage filtration; milk and cheese wastes. Eng N 127:746 N 20 '41

Vacuum filter dressing rig. W. D. Sheets. diag Water Works & Sewerage 89:sup242 Je '42

Gas recovery

See Sewage sludge—Gas production

Grease and oil removal

Grease problem in sewage treatment. A. L. Fales and S. A. Greeley. Am Soc C E Proc 68:193-209 bibliog(p208-9) F '42; Discussion. 68:269-79, 804-6, 1178-80, 1627-8 F, My, S, N '42

Removing grease and floating solids from sedimentation tanks, Johannesburg, South Africa. E. J. Hamlin. diags Water & Sewage 80:22, 54-5 O '42

Grit chambers

Grit and sludge collection and disposal; symposium. Water Works & Sewerage 89:115-16 Mr '42

Grit separator. diags Engineer 174:159 Ag 21 '42

Improved method of velocity control in grit chambers. R. J. Bushee. diags Water Works & Sewerage 88:561-3 D '41

Operation of sewage treatment plants; second revised edition; operating grit chambers and coarse screens. il diags Pub Works 73:38, 40+ O '42

Pneumatic grit washer and ejector. N. M. Fuller. il diags Water Works & Sewerage 89:449-50 O '42

Sewage grit separator. diags Engineering 154:336 O 23 '42

Guggenheim process

Laboratory study of the Guggenheim biochemical process; abstracts. E. B. Phelps and J. G. Bevan. Water Works & Sewerage 88:516-17 N '41; Can Eng W & S 79:32 N '41

Laws and regulations

Sewage disposal statute held valid, Wisconsin Supreme court. Pub Health Rep 57:482-3 Mr 27 '42

Some legal aspects of sewage treatment. G. Jones. Am Water Works Assn J 34:53-5 Ja '42

Odor removal

Control of odorous and destructive gases in sewers and treatment plants. C. C. Hommon. il Water Works & Sewerage 89:277-80 Je '42

Copper sulphate as an aid to sewer maintenance and sewage treatment; odor control and root removal. J. W. Hood. Water Works & Sewerage 89:121-3 Mr '42

Sewage chlorination for odor control; effects of sub-residual chlorine dosages on hydrogen sulfide. H. Heukelekian. Water Works & Sewerage 89:302-4 Jl '42

Patents

Water and sewage patents (cont). J. F. Smith. Water Works & Sewerage 88:566-7; 89:41, 120, 179, 209, 243, 452 D '41-Ja, Mr-Je, O '42

Screening

Screenings handling and disposal; abstract and discussion. W. Donaldson. Water Works & Sewerage 88:558 D '41

Sludge and refuse mixing

Operating results in Lansing's combined garbage-sewage disposal. W. R. Drury. il Pub Works 73:24-6 Ja '42; Abstract. Eng N 127:744-5 N 20 '41

Sewage and garbage disposal plant at Gary, Ind. W. P. Cottingham. il Civil Eng 12:308 Je '42

Sewage sludge digestion at Marion, Indiana; nine months' operation of activated sludge, digestion, vacuum filtration plant. D. Backmeyer. il plan Pub Works 72:12-14+ N '41

Tables, calculations, etc.

Useful volatiles chart. F. H. Burley. Water Works & Sewerage 89:321 Jl '42

War problems

Sewage treatment to meet war needs. S. A. Greeley. Eng N 129:633-5 N 5 '42

War time problems in sewage treatment; discussion. Water Works & Sewerage 89:317-18 Jl '42

SEWAGE disposal, Rural

Destruction of housefly larvae and pupae in sewage sludge beds; spraying with no. 2 Diesel oil; army reservation at Camp Shelby, Mississippi. H. Spencer, J. C. Hedden and L. B. Dworsky. il Pub Works 73:17-18 Ag '42

Flexible sewage treatment for army camps. R. Eliassen. il plans Civil Eng 11:707-10 D '41

Sewage disposal for a housing project. H. Moore. il diags Eng N 128:485-6 Mr 26 '42

Sewage disposal in a southern army camp. R. M. Lingo. il Civil Eng 12:206-8 Ap '42

Something new in settling tank design; tank installed at summer camp. H. Moore. il diags Eng N 129:502-4 O 8 '42

SEWAGE disposal plants

Advantages of careful programming of sludge transfer, Rutherford, N.J. A. B. Kozma. il diag plan Water Works & Sewerage 89:363-5 Ag '42

Flow diagram and description of typical sewage plant at Scarborough township, Ont. E. M. Baird. il Water & Sewage 79:21 D '41

Let's face the facts; municipal services and the war effort. W. L. Sylvester. Water Works & Sewerage 89:212-15 My '42

Modern adaptation of architectural concrete. il Water Works & Sewerage 89:133-5 Mr '42

Operating results on five army biofilter plants; details of operation to date of sewage treatment plants at Camps Polk, Livingston, Wallace and Wolters and Fort Bragg. il Pub Works 73:19-20+ My '42

Operating sewage treatment plants in Westchester county, N.Y. il Pub Works 73:21+ O '42

Operation of sewage treatment plants; second revised edition. il diags plans Pub Works 73:12-13, 25-6, 28+ O '42

Operation of the Wards Island sewage treatment plant. G. P. Edwards. il diags map Boston Soc C E J 29:229-39 Jl '42

Quincy's new sewer system and treatment works completed. E. Minderman. il Water Works & Sewerage 88:568 D '41

Sanitation facilities for military posts. S. A. Greeley and E. S. Chase. il Civil Eng 12:359-62 Jl '42

Sewage disposal plant for small camps. J. Feld. diags Eng N 129:184 Jl 30 '42

Sewage sludge digestion at Marion, Indiana; nine months' operation of activated sludge, digestion, vacuum filtration plant. D. Backmeyer. il plan Pub Works 72:12-14+ N '41

SEWAGE disposal plants—*Continued*

Sewage treatment plant, Austin, Texas. il plan Arch Rec 91:58-9 My '42

Sewage treatment plant for an airfield; Pendleton, Ore. il Pub Works 72:17 N '41

Unique sewage plant for War office building and adjacent military reservation in Arlington, Va. il Eng N 128:925 Je 4 '42

See also

Sewage incinerators

Sewage pumping

Cost

Sewage treatment plant, Brooklyn, N.Y.; unit prices. Eng N 128:71 Ja 8 '42

Design

Bases of sewage plant design for army cantonments; abstract. Am Water Works Assn J 34:759-60 My '42

Details of design that affect sewage plant operation. C. E. Schwob. il Water & Sewage 80:12-14+ Ja '42

Two-stage aeration; recent development in activated sludge plant design. C. A. Scott. flow diag Water Works & Sewerage 89:407 S '42

Directories

Directory of sewage-treatment plants in Canada. Water & Sewage 80:114-21+ Je '42

Electric equipment

All-electric sewage farming. E. Hardy. Electrician 129:135 Ag 7 '42

Employees

Tenure of office for water and sewage works operators; act protecting them against unjust removal passed in New Jersey. Can Eng W & S 79:30 N '41

Equipment

Arc-welding sewage treatment plant at Gary, Ind. A. F. Davis. il Welding J 21:460-1 Jl '42

Army sewage treatment plants. il Pub Works 73:11-12+ Ja '42

Aurora's instructive wall panel; picturized operating chart with specimens attached. Water Works & Sewerage 89:123 Mr '42

Classified index of products used in the water works and sewerage fields. Water Works & Sewerage 89:sup7-16 Je '42

Cleaning encrusted pipe lines and vacuum filters by use of inhibited muriatic acid. K. L. Mick. Water Works & Sewerage 89:314 Jl '42

Combined complete treatment of medium and high concentration wastes; regenerative digestion process and oxidized sludge process. E. B. Mallory. flow diag il diags Water Works & Sewerage 89:143-55; Discussion. E. F. Eldridge. 155 Ap '42

Dorr multdigestor combines two digesters in one. diags Water Works & Sewerage 89:sup 68 Jl '42

Flow diagram and description of typical sewage plant at north Toronto. G. Phelps. flow diag il Can Eng W & S 79:19 N '41

How to double sewage filter capacity. Eng N 128:342 F 26 '42

Link-Belt adds new features to circuline sludge and scum collectors. il Water Works & Sewerage 89:sup77 Ag '42

Maintaining open diffuser plates with chlorine at Jackson, Michigan. R. B. Jackson. il Water Works & Sewerage 89:380-2 S '42

Operation and maintenance of the Tifton, Georgia, sewage plant. D. H. Hurst. il plan Pub Works 73:27-8 S '42

Operation of the Gary sewage treatment plant in 1941. L. R. Howson and W. W. Mathews. flow diag il Water Works & Sewerage 89:229-37 Je '42

Pneumatic grit washer and ejector. N. M. Fuller. il diags Water Works & Sewerage 89:449-50 O '42

Priorities letter no. 5 issued by Wallace and Tiernan co. Water Works & Sewerage 89:390 S '42

Products index, buyer's guide; with addresses of Canadian manufacturers and agents of sewerage and waterworks equipment. Water & Sewage 80:131-9 Je '42

Purging air diffuser plates with chlorine. W. M. Franklin. Water Works & Sewerage 89:sup210 Je '42

Recirculating high rate filter in industrial waste treatment. E. F. Eldridge. il diags Water Works & Sewerage 88:483-90 N '41

Renewals of sewage sprinkler arms. C. L. Gregson. diag Pub Works 73:30 Jl '42

Repair of corroded metal in sewage digestion tanks. R. Reed. Eng N 129:499 O 8 '42

Sewage and garbage disposal plant at Gary, Ind. W. P. Cottingham. il Civil Eng 12:305-8 Je '42

Sewage disposal in a southern army camp. R. M. Lingo. il Civil Eng 12:206-8 Ap '42

Sewage treatment at Appleton, with particular reference to the preparation and utilization of air dried sludge. C. O. Baetz. il Water Works & Sewerage 89:273-4 Je '42

Sewage treatment works of Hammond, Indiana. C. A. Mason. il Pub Works 73:11-13 Ap '42

Sewerage betterments of Englewood, N.J. H. H. Stephens. il Water Works & Sewerage 89:225-7 My '42

Sewerage maintenance notes from Indianapolis, Ind. Pub Works 73:43 S '42

Simple solution feeder for small flows. E. E. Wolfe. diag Water Works & Sewerage 89:338 Ag '42

Sludge digestion, Cleveland. W. E. Gerdel. il Water Works & Sewerage 89:409-15 O '42

See also

Sewage pumps

Sewage tanks

Insurance requirements

Insuring the city's sewerage investment. G. Pauly. Pub Works 73:18+ Ap '42

Laboratories

Buffalo sewage works has modern laboratory. G. E. Symons. il plan Civil Eng 12:95-8 F '42

Layout

Army bio-filter sewage plant provides unusual flexibility. il plan Eng N 129:173-5 Jl 30 '42

Management

Before starting a small sewage works. E. Rowntree. Water Works & Sewerage 89:50 Ja '42

Teaching plant operation to sanitary engineers. G. E. Symons. bibliog Water Works & Sewerage 89:445-7 O '42

Power

Deriving gas engine operating costs and standardizing reports. R. W. Frazier. Pub Works 72:34 N '41

Gas engine performance at Aurora; with cost data. W. A. Sperry. il Water Works & Sewerage 89:323-9 Ag '42

Sewage gas as engine fuel; Cleveland sewage disposal plant. Blast F & Steel Pl 30:1040-1 S '42

Utilization of sludge gas in modern sized treatment plants; with cost data; abstract. G. Martin. plan Water Works & Sewerage 88:556-7 D '41

Protection

Defense measures for sewage works; with list of tools and equipment for emergency repairs. S. G. Hess. Water Works & Sewerage 89:220-2 My '42

Protection of sewage works in war time; abstract. W. T. Ingram. Water Works & Sewerage 89:443-4 O '42

State committee report on sewerage works protection; abstract. L. F. Warrick. Water Works & Sewerage 89:275 Je '42

Winter operation

Problems involved in cold-weather operation of sewerage systems. A. E. Berry. il Can Eng W & S 79:13-15+ N '41

SEWAGE flow

Flow equalization; abstract. L. J. Artist. Eng N 127:898 D 18 '41

Flow measurement of sewage and sludge; development of measuring devices. C. G. Richardson. Pub Works 72:40-1 D '41

Hydrodynamics of model storm sewer inlets applied to design. G. S. Tapley. il diags Am Soc C E Proc 68:375-409 Mr '42; Discussion. 68:1262-3, 1815-22 S, D '42

Improved method of velocity control in grit chambers. R. J. Bushee. diags Water Works & Sewerage 88:561-3 D '41

Metering modern sewage works. R. T. Regester. plan Water Works & Sewerage 89:sup194-5 Je '42

Minimum velocities for sewers; final report of committee to study limiting velocities of flow in sewers. diags chart Boston Soc C E J 29:286-363 bibliog(p359-63) O '42

Relation between average and extreme sewage flow rates. C. F. Johnson. diag Eng N 129:500-1 O 8 '42

SEWAGE incinerators

Sludge incineration; a review of modern developments and the status of the practice. E. T. Killam. diags Water Works & Sewerage 89:sup247-8 Je 42

SEWAGE pumping

Performance tests of large pumping plant; Louisville (Ky.) sewage pumping station. C. F. Johnson. il diag plan Civil Eng 11:703-6 D '41

Pumping undigested sludge; abstract. V. Enloe. Water Works & Sewerage 88:496-7 N '41

Sewerage betterments of Englewood, N.J. H. H. Stephens. il Water Works & Sewerage 89:225-7 My '42

SEWAGE pumps

Sludge pumping. S. E. Kappe. il diag Water Works & Sewerage 88:525-9 N '41

Testing

Performance tests of large pumping plant; Louisville (Ky.) sewage pumping station. C. F. Johnson. il diag plan Civil Eng 11:703-6 D '41

SEWAGE sludge

Advantages of careful programming of sludge transfer, Rutherford, N.J. A. B. Kozma. il diag plan Water Works & Sewerage 89:363-5 Ag 42

Baltimore difficulties with sludge cake disposal. Eng N 129:220 Ag 13 42

Destruction of housefly larvae and pupae in sewage sludge beds; spraying with no. 2 Diesel oil; army reservation at Camp Shelby, Mississippi. H. Spencer, J. C. Hedden and L. B. Dworsky. il Pub Works 73:17-18 Ag '42

Effect of yeast on the stabilization of sewage and sludge digestion. H. Heukelekian. Pub Works 73:17-18 S '42

Flow of solids in piping; practical data on pumping and piping sludges, muds and suspensions. H. E. Babbitt and D. H. Caldwell. bibliog diags Heating-Piping 14:423-7, 491-4 Jl-Ag '42

Good practice in sludge disposal; report of symposium at meeting of American society of civil engineers. W. Rudolfs. il Eng N 128:330-3 F 26 '42

Grit and sludge collection and disposal; symposium. Water Works & Sewerage 89:115-16 Mr '42

Operation of sewage treatment plants; second revised edition; sludge digestion tanks; disposal of sludge. il diags Pub Works 73:62-6 O '42

Pumping undigested sludge; abstract. V. Enloe. Water Works & Sewerage 88:496-7 N '41

Reducing cost of sludge removal; experiences at Aurora, Ill. with a saddle-bag tractor. W. A. Sperry. il Water Works & Sewerage 89:sup240-1 Je '42

Sludge digestion; abstract. L. H. Enslow. Water Works & Sewerage 88:497-8 N '41

Sludge digestion; design studies, observations and developments, Cleveland. W. E. Gerdel. il Water Works & Sewerage 89:409-15 O '42

Sludge digestion temperature control with live steam. A. M. Rawn. il plan Water Works & Sewerage 89:310-13 Jl '42

Sludge triangle; rapid method for determining solids. G. E. Symons and S. R. Kin. bibliog diags Water Works & Sewerage 89:17-23, 156-8 Ja, Ap '42

See also Sewage disposal—Activated sludge method

Analysis

See Sewage—Analysis

Drying

Continuous centrifuge for sludge dewatering. H. D. Clark. Eng N 128:932 Je 4 '42

Heat treatment of sludge; abstract. Eng N 127:898 D 18 '41

Gas production

Methane fermentation of sewage; abstract. U. Bertozzi and others. Chem & Met Eng 49:163-4 Ap '42

Sewage and garbage disposal plant at Gary, Ind. W. P. Cottingham. il Civil Eng 12:305-8 Je '42

Sewage gas as engine fuel; Cleveland sewage disposal plant. Blast F & Steel Pl 30:1040-1 S '42

Sewage sludge digestion at Marion, Indiana; nine months' operation of activated sludge, digestion, vacuum filtration plant. D. Backmeyer. il plan Pub Works 72:12-14+ N '41

Sludge digestion; design studies, observations and developments, Cleveland. W. E. Gerdel. il Water Works & Sewerage 89:409-15 O '42

Sludge gas for motor fuel. il Eng N 127:802-3 D 4 '41

Utilization of sludge gas in modern sized treatment plants; with cost data; abstract. G. Martin. plan Water Works & Sewerage 88:556-7 D '41

SEWAGE sludge as fertilizer

Sewage sludge as a soil conditioner. L. R. Sowerby. il Water & Sewage 79:20+ D '41

Sewage sludge sales and $ $ $ returns. R. W. Frazier. il Water Works & Sewerage 89:118-20 Mr '42

Sewage treatment at Appleton, with particular reference to the preparation and utilization of air dried sludge. C. O. Baetz. il Water Works & Sewerage 89:273-4 Je '42

Sludge and refuse as national assets in war and peace. C. C. J. Bullough. Engineer 173:395-6 My 8 '42

Sludge and refuse as national assets in war and peace. C. C. J. Bullough. Engineering 153:445 Je 5 '42

SEWAGE tanks

Operation of sewage treatment plants; second revised edition; Imhoff tanks; sludge digestive tanks. il diags plan Pub Works 73:42, 47-8, 50, 52, 54, 62-4 O '42

Removing grease and floating solids from sedimentation tanks, Johannesburg, South Africa. E. J. Hamlin. diags Water & Sewage 80:22, 54-5 O '42

Repair of corroded metal in sewage digestion tanks. R. Reed. Eng N 129:499 O 8 '42

Sewage disposal for a housing project. H. Moore. il diags Eng N 128:485-6 Mr 26 '42

SEWAGE tanks, Concrete

Something new in settling tank design; tank installed at summer camp. H. Moore. il diags Eng N 129:502-4 O 8 '42

SEWAGE works associations, Federation of. See Federation of sewage works associations

SEWER cleaning

Copper sulphate as an aid to sewer maintenance and sewage treatment; odor control and root removal. J. W. Hood. Water Works & Sewerage 89:121-3 Mr '42

Copper treatment of sewers does not injure trees. Water Works & Sewerage 89:365 Ag '42

Equipment and methods for sewer cleaning. Water & Sewage 80:36-7+ F '42

SEWER design

Hydrodynamics of model storm sewer inlets applied to design. G. S. Tapley. il diags Am Soc C E Proc 68:375-409 Mr '42; Discussion. 68:1262-3, 1815-22 S, D '42

Minimum velocities for sewers; final report of committee to study limiting velocities of flow in sewers. diags chart Boston Soc C E J 29:286-363 bibliog(p359-63) O '42

Neglected items in storm sewer design. J. Wilson. Eng N 129:310-11 Ag 27 '42

Separate or combined sewers? W. M. Scott. Water & Sewage 80:19+ O '42

Sewer design by approximate flood routing as applied to an army cantonment. R. L. Fraser. Civil Eng 12:102-3 F '42

Sewerage design for housing projects. il chart Eng N 128:775-6 My 7 '42

Varied problems in design and construction of sewers at Lockport, New York; abstract. W. R. Drury. Water Works & Sewerage 89:77-8 F '42

Water and sewerage design problems in a boomtown area; Danville and Middletown, Iowa. C. M. Stanley. diags Eng N 128:548-50 Ap 9 '42

SEWER gas

Control of odorous and destructive gases in sewers and treatment plants. C. C. Hommon. il Water Works & Sewerage 89:277-80 Je '42

SEWER lining

Lining sewer with preformed gunite. diag Pub Works 73:32-3 Jl '42

Relining of an old brick sewer with corrugated metal. J. H. Barth. il diag Pub Works 73:21-2 Jl '42

SEWER pipes

Sliding an outfall sewer into the ocean. il Eng N 128:58-9 Ja 8 '42

See also
Sewage flow

Cleaning

See Sewer cleaning

SEWER pipes, Concrete

Industrial progress follows sewerage; concrete pipe machinery have contributed to sanitation and development of Latin America. G. W. Hoffmann. il Rock Prod 45:90-1 O '42

Jacking a sewer under a railroad at Warren, Ohio. W. S. Harvey. il diag Eng N 129:22-4 Jl 2 '42

Utilize concrete pipe in heavy construction operations. il Concrete 50:5 Je '42

SEWER pipes, Vitrified clay

Available clay sewer pipe now includes extra-strength type. Civil Eng 12:411-12 Jl '42

Federal specifications for vitrified clay sewer pipe revised. B. Eisner. il Eng N 129:40 Jl 2 '42

Velocity and discharge diagram for vitrified clay sewer pipe. Water Works & Sewerage 89:sup193 Je '42

Manufacture

Flow of deaired clay. Brick & Clay Rec 101:24 Jl '42

New equipment and simple research improve quality and reduce losses; Lehigh sewer pipe & tile co. il Brick & Clay Rec 100:22-3 F '42

Straight line methods making sewer pipe. il Brick & Clay Rec 101:21-2 Ag '42

SEWER ventilation

Ventilation of large sewers by city of Los Angeles; abstract. H. G. Smith. Water Works & Sewerage 89:443 O '42

SEWERAGE

Developments and trends in sewerage practices of 1941. S. A. Greeley and P. Hansen. il diags Water Works & Sewerage 89:51-64 F '42

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:885-902 Je 12 '42

Georgia's water and sewage school, 10th annual meeting, Oct. 22-25. Water Works & Sewerage 88:491-9 N '41

Importance of annual municipal reports as source of information for water and sewage works engineers. Water & Sewage 79:18+ D '41

New sanitary sewage facilities for San Diego. B. D. Phelps and R. C. Stockman. il plans Civil Eng 12:17-20 Ja '42

Problems involved in cold-weather operation of sewerage systems. A. E. Berry. il Can Eng W & S 79:13-15+ N '41

Separate or combined sewers? W. M. Scott. Water & Sewage 80:19+ O '42

Sewerage and sewage treatment. W. A. Hardenbergh. 2d ed 454p $4 International textbook co, Scranton, Pa. '42

Short cuts speed outfall sewer construction. F. S. Bixby. il Water Works & Sewerage 89:171-2 Ap '42

Terre Haute constructs sewer by tunneling to avoid inconvenience to the public. R. E. Gibbons. il Pub Works 73:15-16+ Je '42

Waterworks and sewerage reference and data section. il diags Water Works & Sewerage 89:sup1-279 Je '42

See also
Catch basins
Pipe laying
Plumbing
Sanitary engineering
Sewage disposal
Sewage sludge
Sewer cleaning
Sewer design
Sewer pipes
Sewers, Brick
Trade waste
Water pollution

also subdivision Sewerage under names of cities, e.g. Buffalo, New York—Sewerage

also Federation of sewage works associations

Bibliography

Sewerage digest. Published in monthly numbers of Public works

Cost

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:242-7 Ap 23 '42

New London, Ohio, sewer system. Pub Works 73:28 S '42

Sewer extensions, Maryland; unit prices. Eng N 128:432 Mr 12 '42

Sewer improvements, Corpus Christi, Texas; unit prices. Eng N 128:311 F 19 '42

Sewerage system, New Jersey; unit prices. Eng N 128:98 My 21 '42

Sewerage system, Waynesville, Mo.; unit prices. Eng N 128:212 Ja 29 '42

Sewerage tunnel, Cleveland, Ohio; unit prices. Eng N 128:311 F 19 '42

See also
Sewage disposal plants—Cost

Finance

At least 185 cities make charges for sewerage services. Water Works & Sewerage 89:430 O '42

Laws and regulations

Validity of modern health laws and regulations; abstract. L. T. Parker. Am Water Works Assn J 34:1276-7 Ag '42

Maintenance and repair

Defense measures for sewage works; with list of tools and equipment for emergency repairs. S. G. Hess. Water Works & Sewerage 89:220-2 My '42

Industry in home defense; San Francisco plumbers plan for repairing sewerage system in case of air raids. il Dom Eng 159:54-5+ Ja '42

Repairing war damage to sewers. Pub Works 73:67-8 Je '42

Sewer service and maintenance; radio equipped service and maintenance truck. E. P. Decher. il Water Works & Sewerage 89:sup172-4 Je '42

Sewer squad organization for air raids in Chicago. Eng N 128:423-4 Mr 12 '42

Study of infiltration in privately laid sewer. D. Welch. il Pub Works 73:19+ Ag '42

See also
Sewer cleaning
Sewer lining

SEWERAGE—*Continued*

Statistics

Summary of census data on sewerage systems in the United States. Pub Health Rep 57:409-21 Mr 20 '42

Canada

Directory of sewage-treatment plants in Canada. Water & Sewage 80:114-21+ Je '42

Has the use of the activated-sludge system been justified? twenty-four years' experience of Canadian municipalities. A. E. Berry. il Water & Sewage 80:17-20 F '42

Progress and prospects in water-supply and sewerage works. A. E. Berry. il plan Water & Sewage 80:7-10+ Ja '42

Sewered municipalities in Canada, by provinces. Water & Sewage 80:124-5 Je '42

Westchester county, New York

Operating sewage treatment plants. il Pub Works 73:21+ O '42

Wisconsin

Wisconsin sewage works operators meet at Wausau. R. W. Frazier. Water Works & Sewerage 89:275-6 Je '42

SEWERAGE departments

Water supply and sewerage under single management. H. L. Brigham. Water Works & Sewerage 89:373 S '42

SEWERS, Brick

Relining of an old brick sewer with corrugated metal. J. H. Barth. il diag Pub Works 73:21-2 Jl '42

SEWERS, Concrete

See also

Sewer pipes, Concrete

SEWING

Home sewing advertising is on the mend; post-war continuation of brisk sales will require promotion. G. Murray. il Ptr Ink 200:23-4+ S 4 '42

Home sewing; helps and advice available to the homemaker. Consumers' Research Bul 9:19 Mr '42

See also

Dressmaking

SEWING machines

Sewing operations chart; basic types of machines for producing army and navy items. Textile World 92:92 S '42

Substitutes in home equipment; more wood and iron in utility model sewing machine. il Product Eng 13:210-11 Ap '42

Willcox & Gibbs break plant bottlenecks; help customers qualify for war orders; sewing machine manufacturer helps garment factories. il Sales Management 51:42+ Jl 15 '42

SEXTANT

Plotting the course with compact, lightweight sextants. il Mod Plastics 19:39 My '42

SHADE cloth. See Window shades

SHAFT sinking

How a tough water problem was handled at Jarbidge; sinking the Gray Rock shaft involved pumping seven billion gallons. R. O. Camozzi. il diags Eng & Min J 143:45-8 Jl '42

Shaft-sinking job in the Philippines. J. C. Alexander. il Eng & Min J 143:58 Ap '42

See also

Drilling and boring (earth and rocks)

SHAFTING

Cold-finishing steel bars and shafting. il Blast F & Steel Pl 30:568-9+ My '42

How to align lineshafting. diags Power 86:672-3+ S '42

To determine the clearance in a bearing. Can Min J 62:764 N '41

See also

Belting

Power transmission

Pulleys

SHAFTS

Allowances for shaft fits; reference book sheet. R. P. Valtier. Am Mach 86:973 S 3 '42

Applying mobility method to shaft vibration. R. C. Binder. diags Machine Design 14:62-5+ F '42

Developing an efficient procedure for machining motor shafts. C. J. Andersen. il Mach 48:136-8 Mr '42

Difference calculus simplifies computation of shaft deflections. A. H. Church. Product Eng 13:13-15 Ja '42

Influence of critical speed on shaft design and operation. H. Engvall. il diags Power 86:164-5 Mr '42

Investigations on shaft fillets. P. Grodzinski. diags Engineering 152:321-4 O 24 '41

Machining on job saves time; repairing generator shaft by grinding. il Power Pl Eng 46:65 Ap '42

Matrix theory of torsional oscillations. L. A. Pipes. diags J Ap Phys 13:434-44 Jl '42

Metallizing, a modern aid in maintenance. il diags Min Cong J 28:17-21 S '42

Rectangular shafts; torsional stresses and angular deformations. M. F. Spotts. diags Product Eng 13:319-21 Je '42

Save time by machining turbine shaft in position; using 25-cycle power to motor a 60-cycle generator at low speed. F. I. Morgan. il Power 86:390-1 Je '42

Shaft repaired with metal spray. L. E. Kunkler. il Power 86:269-70 Ap '42

Shaft straightening with the blowpipe. A. B. Gordon. diags Power Pl Eng 46:110 Jl '42

Soft roots corrected; making 3-in. spline shafts from S.A.E. 1045. L. F. Train. Metal Prog 42:377 S '42

Stepped-diameter shafts; procedures for calculating deflections. A. F. Puchstein. Product Eng 12:652-6 D '41

Turbine shaft repaired by metal spray process. il Power Pl Eng 46:91 Ag '42

Unusual shaft failure; balance wheel of a large motor generator set. il Locomotive 44:77-8 Jl '42

Waterwheel shaft reground on job. R. J. Ruedy. il Elec W 117:516+ F 7 '42

See also

Crankshafts

SHAKING apparatus

Simple mechanical shaker. V. H. Cheldelin and B. E. Christensen. bibliog il Science 95:257 Mr 6 '42

SHALE

Age and fossils of the Olentangy shale of central Ohio. R. C. Baker. Am J Sci 240:137-43, pl 1-3 F '42

Amoura shale, Costa Rica. P. P. Goudkoff and W. W. Porter, 2d. bibliog map Am Assn Pet Geologists Bul 26:1647-55 O '42

Clays and shales of Washington. S. L. Glover. 368p bibliog(p2-5) Dept. of conservation and development, Division of geology, Olympia, Wash. '41

Economic possibilities of the Pierre shale. J. P. Gries. 79p Univ. of South Dakota, Vermillion, S.D. '42

Method for measuring hydration-pressure relationships in bentonitic materials and heaving shale. H. H. Power, B. L. Towle and J. B. Plaza. (Engineering research ser. 33) 25p bibliog(p25) Bur. of industrial chemistry, Univ. of Texas, Austin '42

Mineral composition, and structure of mine roof rocks. P. H. Price and A. J. W. Headley. bibliog il Min Cong J 28:54-6 Ap '42

Pigment in black and red sediments. P. E. Raymond. Am J Sci 240:658-69 S '42

Report of A.P.I. special subcommittee on heaving shale. diags Am Pet Inst Proc 22(4):98-9 '41

See also

Oil shales

SHALE oil. See Oil shales

SHAMPOO

Hard-water shampoo. Soap & San Chem 18:61 S '42

SHANGHAI

Social and industrial problems of Shanghai; with special reference to the administrative and regulatory work of the Shanghai municipal council. E. M. Hinder. 74p pa 50c Inst. of Pacific relations, New York '42

See also

Electricity supply—
Shanghai

Economic conditions

Economic Shanghai: hostage to politics, 1937-1941. R. W. Barnett. 210p $2 Inst. of Pacific relations, New York '41

Trade and shipping in Shanghai. Economist 141:472 O 18 '41

Water supply

Shanghai waterworks co.'s annual report. il Water & Sewage 80:25-6 Mr '42

SHAPERS

Angle plate for the shaper. N. Deering. diag Am Mach 86:114 F 19 '42

Ormerod radial shaping machine. il Engineering 152:326-7 O 24 '41; Automobile Eng 31:410 N '41; Engineer 172:300 O 31 '41

Shaper fixture for machining special cams. L. Kasper. diags Mach 48:153-4 Mr '42

Sheridan 25-in. stroke shaping machine. il Engineering 154:186 S 4 '42

Vernon 12in. shaper. il Automobile Eng 32:315-16 Ag '42

SHARE-croppers. See Farm tenancy

SHAREHOLDERS. See Stockholders

SHARK leather

Shark by-products industry grows. L. Dart. Barron's 21:12 N 17 '41

SHARK liver oil

Australia's shark-oil industry. For Comm W 9:27 O 10 '42

Mexican shark-fishing industry. For Comm W 6:18 Mr 7 '42

Sharkliver oil output halted by market glut. Oil Paint & Drug Rep 142:4+ N 9 '42

Shark liver oil; Salerno, center of revived shark industry. J. H. Duckworth. Science 96:sup8 Ag 14 '42

Sharks on the Pacific coast; high vitamin value of the liver oil. F. Thone. Science 95:sup9 F 20 '42

SHARKS

Mexican shark-fishing industry. For Comm W 6:18 Mr 7 '42

Shark by-products industry grows. L. Dart. Barron's 21:12 N 17 '41

SHARPENING

Forty years progress in pulp stones and burrs. D. E. Dupuis. Pulp & Pa of Can 43:578-81 Jl '42

More cuts by correct sharpening. R. T. Wise. il diags Am Mach 85:1314-16 D 24 '41

P & W deep-hole drill sharpening attachment. il Mach 48:165 Ag '42

Resharpening broaches to obtain longer life. H. Gotberg. il diags Mach 48:129-30 Ja '42

SHASTA dam. See Dams, Concrete

SHASTA line. See Southern Pacific railroad

SHASTA project. See Hydroelectric plants—California

SHAWINIGAN chemicals, ltd.

Pioneering in electrochemistry. R. A. Witherspoon. il Can Chem & Process Ind 26:395-400 Jl '42

SHEARLINGS. See Hides and skins

SHEARS (machines)

Billet shears for continuous operation. il Comp Air M 47:6772 Je '42

Large arc-welded shear speeds up the cutting of scrap. il Mach 48:119 Mr '42

Plate shear cutting loads, tapered and parallel blades, on cold mild steel; reference book sheet. J. P. Doolan. Product Eng 13:677-8 N '42

Setting and maintenance of shear blades. A. Johnston. diags Blast F & Steel Pl 30:253 F '42

SHEAVES

Conserve V-belts by maintaining proper tension on sheaves. il Brick & Clay Rec 101:38 O '42

How to inspect drums and sheaves used with wire rope; data sheets. A. J. Morgan. diags Factory Management 100:114, 116, 118 F '42

Oxyacetylene flame hardening. J. G. Magrath. il diags Am Mach 86:107-9 F 19 '42

Proposed specification on sheave grooves. Am Pet Inst Proc 22(4):157-8 '41

Rectifying hoisting sheaves. diags Eng & Min J 143:129 Ag '42

Sheaves for wire rope. F. L. Spangler. Product Eng 13:533 S '42

SHEDD, Solon, 1860-1941

Memorial. O. P. Jenkins. bibliog por(pl) Geol Soc Proc 1941:187-91 Mr '42

SHEEP

Shearlings go up; use in aviators' uniforms. Business Week p28 My 2 '42

See also

Partido system
Wool

SHEET iron

Influence of operating conditions on the electro deposition of iron sheets; abstract. F. Muller and O. Witnes. Metals & Alloys 15:466+ Mr '42

See also

Sheet steel

SHEET metal

Effect of lightning on thin metal surfaces. K. B. McEachron and J. H. Hagenguth. il diag Elec Eng 61:Trans 559-64 Ag '42

See also

Sheet iron
Sheet steel
Steel, Strip
Tin plate

Standards

ASA approves new standard gage system for thin sheet metals. H. W. Tenney. Ind Stand 12:313-15 D '41

General Electric finds need for universal adoption of standard thicknesses of thin sheet metals. H. W. Robb. Ind Stand 13:119-20 My '42

International sheet metal standard would help inter-American trade. R. E. Hellmund. Ind Stand 13:43-4 F '42

Specification standards for government work. H. R. Sleeper. Arch Rec 91:61-3 F '42

Testing

Evaluation of the drawability of thin metals. T. F. Mika. il Metal Prog 41:192-7 F '42

Measurement of drawing properties of aluminum sheet. G. A. Brewer and M. M. Rockwell. il diag Metal Prog 41:663-8 My '42

Problems in the drawability of deep drawing sheets. M. Asimow and J. N. Crombie. diags Am Soc for Metals Trans 30:639-89 bibliog(248 titles, p674-89); Discussion. 689-94 S '42

Some factors affecting the drawability of aluminum sheet. G. A. Brewer, V. N. Krivobok and M. M. Rockwell. il diags Metal Prog 42:62-5 Jl '42

Stress-strain relationships in the drawing of metals. G. A. Brewer and M. M. Rockwell. il diags Metal Prog 41:806-10 Je '42

Wedge-draw vs. tension test to determine drawability. G. A. Brewer. il Metal Prog 42:216-17 Ag '42

SHEET metal, Corrugated

Manufacturing the famous Porcelok roofing and siding. il Cer Ind 39:37-9 Jl '42

Metal igloos speed eastern airbase job. il Eng N 129:324-5 S 3 '42

SHEET metal, Enameled

Cause of defects in enamel. C. A. Zapffe and others. bibliog il diags Am Cer Soc J 25:175-215 Ap 1 '42

Ceramics aid wartime construction; building materials and equipment. il Cer Ind 38:58, 75 Ap '42

Enameling plant converts to war production. A. F. Macconochie. il diags Steel 111:54-5, 74, 76+ Ag 24 '42

SHEET metal, Enameled—*Continued*

How to eliminate fishscaling in porcelain enameled ware. W. W. Higgins. il Cer Ind 37:48, 52 D '41

Investigation of fish-scale phenomena. W. W. Higgins and W. A. Deringer. flow sheet bibliog il Am Cer Soc J 24:383-92 D '41

Manufacturing the famous Porcelok roofing and siding. il Cer Ind 39:37-9 Jl '42

Porcelain enamel offered opportunity in industrial building field. R. H. Sparks. il Cer Ind 38:49+ Je '42

Porcelain shift; enameling plants turn to war products, including dehydrated eggs. Business Week p65 Jl 11 '42

Possibilities of porcelain enamel. T. I. Byrd. Sheet Metal Worker 33:25+ S '42

Relative weather resistance of various porcelain enamels. W. N. Harrison and D. G. Moore. il Cer Ind 39:26-8 N '42

War conversion problems of an enamel plant. W. T. Winand. Cer Ind 39:58 Ag '42

Weather resistance of porcelain-enameled iron structural units. W. N. Harrison and D. G. Moore. bibliog pls J Research Nat Bur Stand 28:735-54 Je '42

What enamelers are doing to stay in business. Cer Ind 38:31-2 Je; 34 Jl '42

De-enameling

Little de-enameling ingenuity will save a lot of steel. G. Dyer. il Cer Ind 39:60+ Ag '42

SHEET metal, Expanded

Aircraft fuselage panels of expanded steel. W. F. Sherman. il Iron Age 150:49-54 S 17 '42

SHEET metal buildings

Metal igloos speed eastern airbase job. il Eng N 129:324-5 S 3 '42

Modern all-metal building; Far East restaurant, Columbus, Ohio. il Sheet Metal Worker 33:31-2 My '42

SHEET metal handling

Handling time cut 96 per cent; receiving and storing sheet steel at plant of A. S. Campbell co. il Steel 110:82+ Ap 6 '42

Improvements in hot-coil conveyors. J. E. McBride. il diags Steel 110:70, 72, 74 Mr 30 '42

Monorail handling system speeds sheet metal fabricating operations; Art metal construction co. il Steel 111:89 S 7 '42

SHEET metal houses

All metal small homes. N. W. Brownyard. il diags plan Sheet Metal Worker 32:38-40 N '41

Light metal house. il diags plan Arch Forum 77:150-2 S '42

See also

Steel houses

SHEET metal shops

Brandt shop wins navy E. il Sheet Metal Worker 33:23+ Jl '42

Chicago shop expands; Cicero sheet metal shop. il Sheet Metal Worker 33:23-4 Mr '42

From contractor to manufacturer; Sheet metal mfg. co. il Sheet Metal Worker 33:33-4 Jl '42

Hints on obtaining war contracts. Sheet Metal Worker 33:26 O '42

Letting the public know; J. L. Kenney's sheet metal shop. il plan Sheet Metal Worker 33:30+ Ag '42

Prosperous small-town shop; C. W. Swift, Angola, Ind. il Sheet Metal Worker 32:36-7 N '41

Representative sheet metal shops; illustrations. Sheet Metal Worker 33:58-9 Ja '42

Shop equipped for large work. il diags Sheet Metal Worker 33:54-6 S '42

Electric equipment

Can making; how electrical control speeds up production. il Elec R (Lond) 129:725-9 D 26 '41

Equipment

Modern infra-red baking system. C. F. Miller. il plan Metal Finishing 40:561-2 O '42

Monorail handling system speeds sheet metal fabricating operations; Art metal construction co. il Steel 111:89 S 7 '42

See also

Sheet metal handling

Management

How one company is successfully tackling the war-production problem; Lyon metal products inc. Steel 110:74-6 My 4 '42

How we go get war work; Lyon metal products, inc. E. D. Power. il Factory Management 100:68-71+ My '42

Profits in evaporative cooling; Union sheet metal works. il Sheet Metal Worker 33:51-2+ Ja '42

SHEET metal trade

Additional regulating orders. Sheet Metal Worker 33:51-3+ Je '42

Defense housing priorities; procedure to follow. Sheet Metal Worker 32:42, 44, 46, 48 D '41

Emergency merchandising for sheet metal men. C. P. Balsam. Sheet Metal Worker 32:41-2+ N '41

Group insurance makes good showing; New York sheet metal, roofing and air conditioning contractors association. Sheet Metal Worker 33:49 Je '42

Heating-sheet metal priorities. Sheet Metal Worker 33:23, 37+ F '42

How to apply for repair priorities. Sheet Metal Worker 33:26-7 Je '42

Lead the way to victory; dealer's business and his contribution to the war effort. C. P. Balsam. Sheet Metal Worker 33:34+ Je '42

Maintenance and repair orders. Sheet Metal Worker 33:30, 57+ My '42

Procedure for non-defense work. Sheet Metal Worker 32:39+ D '41

Save your business with insulation. C. P. Balsam. il Sheet Metal Worker 33:30-2 Jl '42

Sheet metal contractors associations, annual meetings. Sheet Metal Worker 33:54-61 Mr '42

Sink or swim; alternatives facing sheet metal contractor under present war conditions. O. A. Reiter. Sheet Metal Worker 33:40+ My '42

Use substitutes to help win the war. C. P. Balsam. Sheet Metal Worker 33:44+ Mr '42

What sheet metal men are doing; war work. Sheet Metal Worker 33:48 Jl '42

See also Lyon metal products, inc.

Accounting

Easy bookkeeping for sheet metal shops. F. U. Ritter and H. E. Jones. 70p pa $1 Sheet metal worker, New York '41

Advertising

Advertising in the good will month. C. P. Balsam. Sheet Metal Worker 32:52+ D '41

Directories

Directory section; manufacturers of equipment used in warm-air heating, air conditioning, ventilation and sheet metal work. Sheet Metal Worker 33:151-69 Ja '42

SHEET metal work

Aircraft are different; manufacturing methods permit significant design changes with practically no loss in the rate of production. G. F. Nordenholt. il Product Eng 13:368-71 Jl '42

Aircraft sheet metal workers' manual. R. C. Look. 122p Goodheart-Willcox co, Chicago '42

Aircraft sheet metalwork. J. W. Giachino. 2v 123p; 59p v 1 $1.96; v2 pa 96c Manual arts press '42

Aluminum alloy bead proportions. E. J. Rantsch. diags Aero Digest 40:209 Mr '42

Angles between planes; simplified graphical method of measurement. H. H. Stevens, jr. diags Product Eng 13:443-5 Ag '42

Bend radii for sheet-metal forming; reference book sheet. Am Mach 86:1039 S 17 '42

Bending press handles progressive stamping, forming operations. il Steel 110:74 F 2 '42

SHEET metal work—*Continued*

Boeing builds Flying Fortresses to bomb the enemy. C. O. Herb. il Mach 48:198-204 Jl '42 (to be cont)

Briggs aids aircraft production. il Iron Age 149:35-8 Ja 8 '42

Burring edges on circles and circular pieces. D. A. Graham. diags Sheet Metal Worker 32:31 N '41

Christmas tree holder. F. W. Klay. diags Sheet Metal Worker 32:40 D '41

Cold-forming duralumin sheet; abstract. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. Metals & Alloys 16:740+ O '42

Cold-pressing properties of duralumin-alloy sheets. J. C. Arrowsmith, K. J. B. Wolfe and G. Murray. il Engineering 154:235, 258-60, 278-80; Discussion. 275 S 18-O 2 '42

Comparative formability of various aluminum alloys. T. H. Hazlett. il diags Iron Age 150:33-7 O 15 '42

Contracts commanding priorities; installation details, forced draft duct, insulation and covering of smokestack breechings; Kings Park state hospital. il diags Sheet Metal Worker 32:28-30 D '41

Converts auto-body plant to production of wing sections and other aircraft parts by adapting double-acting crank presses; Murray corp. of America. H. Chase. il Steel 110:64-6+ Mr 23 '42

Conveyors save space in aircraft plant; finishing operations on sheet-metal parts. F. M. Bates. il diags Am Mach 86:1244-9 O 29 '42

Corners and corner seams. D. A. Graham. diags Sheet Metal Worker 33:49+ O '42

Cowl ventilators formed on huge drawing press. il Marine Eng 47:267 O '42

Data on marine sheet metal work; square, rectangular, round and flat oval piping. Sheet Metal Worker 33:55-6 My '42

D.c. seam welding. T. W. Dietz. il diags Iron Age 150:58-9 O 1 '42

Double seaming. D. Graham. il diags Sheet Metal Worker 32:36+ D '41

Duplicating without dies; production of metal shapes by hand-operated tools. A. P. Peck. il Sci Am 166:128-9 Mr '42

Elastic theory in sheet metal forming problems. F. R. Shanley. bibliog il diags J Aeronautical Sci 9:313-33 Jl '42; Same cond. Automotive & Aviation Ind 87:112+ O 1; 33-7 O 15 '42

Fabricating stainless steel without distortion; making dishwashers at the plant of Josiah Anstince & co. il Steel 111:86, 89-90 Ag 3 '42

Fastening and joining sheet metal ducts. D. A. Graham. diags Sheet Metal Worker 33:29-31 S '42

Forming convex flanges and joggles; sheet metal aircraft parts. W. Schroeder and R. B. Glassco. il diags Iron Age 149:49-53 Je 11 '42

Forming Pittsburgh locks. D. Graham. il diags Sheet Metal Worker 33:24+ F '42

From stoves to lifeboats. A. Chester. il Factory Management 100:66-8 Mr '42

High-production high-economy methods for metal parts. D. Basch. il Gen Elec R 44:685-95 D '41

Holders for light sheet riveting. diags Iron Age 150:50-1 Jl 30 '42

Hollow rivets speed production. il diag Sheet Metal Worker 33:29 Je '42

How to do aircraft sheetmetal work. C. Norcross and J. D. Quinn, jr. 285p $2.20 McGraw-Hill '42

Hydro-press forming with rubber platens. T. H. Hazlett and W. Schroeder. bibliog il diags Iron Age 149:41-6 Je 18 '42

Improved equipment aids arc welding of sheet metal work. R. A. Gast. il Welding J 21:399 Je '42

Low carbon low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:191-2, 195-6, 199+ Jl; 230, 235-6, 239-40+ S; 145-6, 148, 150 N '42

Low-cost blanking and piercing dies. J. R. Joachimi. il Steel 100:64-5+ Mr 2 '42

Manure dehydrator a profitable specialty; James G. Clark, sheet metal contractor. il diags Sheet Metal Worker 33:53-5 Ja '42

Material conservation through Lindsay structure. il diags Product Eng 13:240-1 Ap '42

Mechanics of deep drawing sheet metal parts. G. Brewer and M. M. Rockwell. il diags Aero Digest 40:126+ F '42

Metallurgical engineering conversion to war production; sheet-metal fabricating. il Metals & Alloys 15:979-87 Je '42

Metallurgy of deep drawing and pressing. J. D. Jevons. 2d ed rev 735p bibliog(p715-20) 50s Chapman & Hall, London '41

Metalworking and airframes. A. A. Schwartz. il Steel 110:56-8 F 2 '42

Multiple subpress dies for aircraft fabrication. G. F. Wales. il diag Iron Age 150:52-5 Ag 27 '42

Practical aircraft sheet-metal work, including riveting, assembly, blueprint reading and template developing. R. Frazer and O. Berthiaume. 193p $3 McGraw-Hill '42

Prefabricating aircraft parts at Reynolds. W. G. Reynolds and D. P. Reynolds. il Aviation 41:108-13 O '42

Present furnace metal gages retained. Sheet Metal Worker 33:50 Je '42

Press work on hollow parts. M. Golden. il diags Am Mach 86:944-6 S 3 '42

Production illustrations; production shortcut for every metal-working plant; system developed by Douglas aircraft co. il diags Steel 111:56-8, 60+ Ag 24 '42

Progressive sheet metal extruding. S. Baldwin. diags Am Mach 86:656-7 Je 25 '42

Rapid production of sheet templates. il Engineering 152:407-8 N 21 '41

Rivets and riveting. D. Graham. diags Sheet Metal Worker 33:27-8 Mr '42

Roll-forming metal sections in a British airplane plant. diags Mach 49:175-8 S '42

Rolled and cast Kirksite in airplane plants; forming and blanking dies. W. W. Broughton. il diags Mach 49:139-47 O '42

Rolls apply paint to aircraft parts. il Am Mach 86:730 Jl 9 '42

Rubber press tools for forming. Metals & Alloys 15:487+ Mr '42

Seams, their construction and use. D. A. Graham. diags Sheet Metal Worker 33:39 Jl '42

Sheet metal workers' manual. L. Broemel; J. S. Daugherty. 550p $2 Drake '42

Simple tension jig for testing single-riveted and spot-welded sheet specimens. N. C. Parrish. il diags Instruments 15:212-13 Je '42

Soft metal tools; abstract. A. McLeod. Metals & Alloys 14:214, 758+ Ag, N '41

Spitfire V fighter in production. il diags Automotive & Aviation Ind 87:36-9+ Ag 15; 34-7+ S 1 '42

Stainless steel fabrication simplified; R. G. Wright co. dairy equipment. R. F. Ellis. il Steel 110:94, 97+ My 11 '42

Stove plant turns out life boats on a production-line basis. il Cer Ind 39:35-6 Jl '42

Stretch-forming contoured sheet metal aircraft parts. T. H. Hazlett and M. M. Rockwell. bibliog il diags Iron Age 149:49-53 Je 4 '42

Stretch-forming speeds aircraft production. F. C. Hoffman. il diags Iron Age 150:68-77 O 1 '42

Unique aircraft construction methods; Murray corp. of America. W. F. Sherman. il Iron Age 149:33-43 Je 25 '42

Wing blanks; scheme for continuous production. il diag Automobile Eng 32:350 S '42

See also

Air conditioning equipment
Air pipes
Exhaust systems
Metal drawing
Pipe elbows
Pipes
Presses
Rolling (metal work)
Rolling mills
Sheet metal, Enameled
Sheet metal shops
Sheet steel
Stamping
Tin cans
Tin plate
Tubes
Ventilators
Water tanks

Bibliography

Emergency reading. C. P. Balsam. Sheet Metal Worker 33:84-5+ Ja '42

SHEET metal work—*Continued*

Pattern making

Air conditioning metal layout. J. J. Kaberlein. 308p $3.75 Bruce pub. '41

Audels sheet metal workers handy book for pattern layout men. F. D. Graham and E. P. Anderson. 388p $1 T. Audel & co, 49 W. 23d st, New York '42

Laying out rectangular ducts and fittings (cont). O. W. Kothe. diags Sheet Metal Worker 32:34-5 D '41; 33:56-7 Ja; 29-30 F; 30-1 Mr; 29-30+ Ap; 25-7 My; 28-9 Je; 28-9 Jl; 28-9 Ag; 26-7 S; 24-5 O; 24-5 N '42

Sheet-metal pattern drafting. F. J. O'Rourke. 189p $2 McGraw-Hill '42

Ship and aircraft fairing and development, for draftsmen and loftsmen and sheet metal workers. S. S. Rabl. 90p $2.50 Cornell maritime press, New York '41

Study and teaching

Buffalo's N.Y.A. training shop. il Sheet Metal Worker 32:29-30+ N '41

How NYA trains war workers. il Sheet Metal Worker 33:30-1 Je '42

New metal trades high school; Murray Hill high school of building trades, New York. E. H. Bruggeman. il plan Sheet Metal Worker 33:22-4 S '42

Outline course for defense classes. D. A. Graham. Sheet Metal Worker 33:25-7 Ag '42

Tables, calculations, etc.

Calculations for joggle dies. E. J. Rantsch. diags Aero Digest 40:136+ F '42

Determining surface area of stampings. N. Hall. Metal Finishing 39:662-5 D '41

Springback in flanging; curves and table for determining die-block angles. F. B. Chapman, T. H. Hazlett and W. Schroeder. diags Product Eng 13:382-3 Jl '42

SHEET metal work, Architectural

Metal for modern buildings: work of William A. Klobus & son. il Sheet Metal Worker 33:35-6 F '42

Sheet metal workers' catechism (cont). W. Neubecker. diags Sheet Metal Worker 33: 38+ F; 29+ Mr; 29+ My; 27+ Jl; 34+ N '42

See also

Copperwork, Architectural
Steel houses

SHEET metal workers

How we retrained 900 men every 60 days; Briggs manufacturing company, Detroit. H. J. Roesch. il Factory Management 100: 95-6+ O '42

Wisconsin apprenticeship standards; sheet metal men set up new code. Sheet Metal Worker 33:44, 46+ O '42

SHEET metal working machinery

Hydraulic stretching press. il Steel 110:102+ My 11 '42; Mach 48:167-8 Je '42; Iron Age 149:75 Je 4 '42; Am Mach 86:685 Je 25 '42

Mechanism for feeding washer-shaped blanks to die with concave sides up. diags Mach 48:131-2 Ag '42

Power hammers coming back. il Iron Age 149:59 F 5 '42

Power-operated nibbling machine. il Engineering 154:177 Ag 28 '42

Press that forms and stretches sheet metal. il Comp Air M 47:6826 Ag '42

Sheridan sheet stretching press. il Am Mach 86:853 Ag 6 '42

Sheridan stretching machine for forming contoured sheets. il Engineering 154:267 O 2 '42

Short run stamping and forming without dies; hand-operated bench machines. A. T. O'Neil. il Steel 109:50-3 D 15 '41

Wayne tube beader. il Automotive & Aviation Ind 87:44 Ag 15 '42

See also

Presses
Shears (machines)

SHEET mills. See Rolling mills

SHEET piling

Big rigs drive cofferdam piles; TVA's big Kentucky dam. J. W. Peerson. il diags Eng N 128:194-9 Ja 29 '42

Bridge piers encased against scour. H. L. Broadfoot and W. A. Chalkley. il diags Eng N 128:562-4 Ap 9 '42

Cofferdam design for Kentucky dam. A. F. Hedman. il diags plan Eng N 128:30-5 Ja 1 '42

SHEET steel

Aluminum eliminated, bus weight is reduced; J. G. Brill company. diags Product Eng 13:6-9 Ja '42

Cause of gray sheets in hot-dip galvanizing. W. G. Imhoff. bibliog Blast F & Steel Pl 29:[1124-6+] N '41

Cold-rolled stainless steels. R. Franks and W. O. Binder. bibliog il diags Aero Digest 41:213-14, 219-20+ Jl '42; Same. Mech Eng 64:589-98 Ag '42

Corrugated sheet-steel catenary dam. il Engineering 152:387, 390 N 14 '41

Die-cast aluminum case now welded sheet steel; housing for recording instrument. il diags Product Eng 13:196-7 Ap '42

Experiments with low-alloy high-tensile steel sheets for trainer plane fuselages are encouraging. Steel 110:60, 63 Ap 13 '42

Hot rolled, cold rolled and galvanized sheets, Pittsburgh, 1929-1941; prices; tabulation. Steel 110:364 Ja 5 '42

Jig for determining steel gages. G. Klay. diags Sheet Metal Worker 33:44 My '42

Low-alloy, low-carbon steel in aircraft construction. W. F. Sherman and T. C. Campbell. il Iron Age 150:62-7 Jl 2 '42

Low carbon low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:191-2, 195-6, 199+ Jl; 230, 235-6, 239-40+ S; 145-6, 148, 150 N '42

Magnetostriction in electrical sheet steels. F. Brailsford and R. G. Martindale. bibliog Inst E E J 89 pt 1:225-31 My '42

Manufacture of alloy-clad sheets; Follansbee steel corp. manufactures copper and cupro-nickel clad steel. il Steel 110:82 Ap 20 '42

Sheet scrap in cupola charge. Metal Prog 41: 75 Ja '42

Steel sheets with zinc coating that withstands severe forming. il Product Eng 13: 564-6 O '42

Stressed sheets of steel used in new structural units; Lindsay structure. il Sci Am 166:294-5 Je '42

Tinning of difficult steels. W. E. Hoare and H. Plummer. Metal Prog 41:500+ Ap '42

See also

Containers, Steel
Rolling (metal work)
Steel, Automobile
Steel, Strip
Steel plates
Tanks, Steel
also Lyon metal products, inc.

Testing

Tensile and compressive properties of some stainless-steel sheets. C. S. Aitchison and others. bibliog charts J Research Nat Bur Stand 28:499-567 Ap '42

SHEETS

Informative labelling has important war work to do. C. J. Swan. il Ptr Ink 198:19-20+ Mr 20 '42

Labeling required; OPA sets top prices on sheets. Business Week p31-2 F 14 '42

Rating

Sheets and pillowcases. Consumers' Research Bul 9:7-9 Mr '42

SHEFFE, Chris Devereux, 1887-

U.S. manager of London Assurance. C. Axman. por East Underw 43:17+ O 23 '42

SHEFFIELD farms company

Denies unfair competition. Comm & Fin Chr 156:1421 O 19 '42

SHELL oil company

Who's who in refining. Oil & Gas J 41:76 My 28 '42

SHELL union oil corporation

Annual report. Comm & Fin Chr 155:1685 Ap 27 '42

SHELLAC

India's industrial insects; they produce shellac. D. R. Crone. il For Comm W 8:4-7+ S 26 '42

Nature and constitution of shellac; preparation of 8,9,15-trihydroxypentadecylamine from aleuritic acid by the Naegeli-Curtius series of reactions. A. L. Davis and W. H. Gardner. bibliog Am Chem Soc J 64:1902-5 Ag '42

New disks for old; RCA-Victor to recover shellac from scrapped records. Business Week p52+ F 14 '42

Old records for new; discarded phonograph records are a source of recoverable shellac. il Mod Plastics 19:46-8+ Ap '42

Recent Indian research; shellac moulding powders. il Chem Age (Lond) 47:84 Jl 25 '42

Shellac order M-106 affects uses, stocks. Oil Paint & Drug Rep 141:5+ Ap 20 '42

Shellac order halts civilian consumption. Oil Paint & Drug Rep 142:5+ Ag 10 '42

Shellac under rigid control. Oil Paint & Drug Rep 142:4 Ag 3 '42

U.S. shellac consumption cut; Germany processing old phonograph records. For Comm W 7:25-6 My 2 '42

Prices

Shellac prices ceiled for sales to DSC. Oil Paint & Drug Rep 142:5+ O 26 '42

SHELLFISH

See also

Oysters

SHELLS (metal work)

Draw dies for a rectangular shell; bed lamp. M. Golden. il diags Am Mach 86:214-16 Mr 19 '42

Press work on hollow parts. M. Golden. il diags Am Mach 86:944-6 S 3 '42

Some simple sorting and feeding mechanisms for the delivery of shells. W. M. Halliday. diags Mech Handling 29:112-14, 147-50 Je, Ag '42

Tests of cylindrical shells. W. M. Wilson and E. D. Olson. il diags Ill U Eng Exp Sta Bul 331:1-129 '41 (pa $1)

See also

Boilers

Sheet metal work

Tanks, Steel

SHELLS (projectiles)

Age softening of 37-millimeter cores baffles experts. Steel 109:47 N 24 '41

Induction brazing 75 mm. shell adapters. Iron Age 149:52 Mr 5 '42

Reasons why of shell design as shown by firing tests. il diags Product Eng 13:620-3 N '42

Loading plants

Army constructs 119-mile railroad at ordnance plant. il Ry Age 112:638-42 Mr 28 '42

Material handling at shell loading plants; Auto-Railer used both on roadways and rails. W. F. Sherman. il Iron Age 149:62-6 Mr 26 '42

Safety's triangle; vigilance, cleanliness and morale; shell loading and ordnance plants. J. R. Mardick. il Safety Eng 83:13, 16 Ap '42

Manufacture

Automatic spray machines for coating shells rapidly. il Mach 48:153 F '42

Automatic spray pickling; combined annealing equipment heat treats, pickles, washes and dries in one continuous operation. il Steel 110:78+ My 25 '42

Barney machinery offers complete line of heavy machines for shell production. il Am Mach 86:249-50 Mr 19 '42

Carbide tools for shell work. G. G. Thompson. il diags Iron Age 149:41-4 My 14 '42

Cast mortar shells from electric furnace steel. J. B. Nealey. il diags Iron Age 150:47-52 Ag 13 '42

Cast steel mortar shell. E. Bremer. il Steel 110:62-4 Ja 12 '42

Chain conveyor speeds shell core production. il Steel 110:92 My 4 '42

Converted lathes machine high explosive shell. il Am Mach 86:335-47 Ap 16 '42

Conveyorized plant finishes shells by the million; Iowa ordnance plant. il Factory Management 100:80-1+ F '42

Conveyors speed billets to bullets. il Steel 110:98+ Je 15 '42

Electrical heating unit used in shell production. il Mach 48:180 F '42

Engineering the treatment of 155-mm. shell. R. F. Wilson. il Metal Prog 42:359-63 S '42

Finishing defense products. F. V. Faulhaber. il Metal Finishing 40:228-30, 279-80, 283, 339-41 Ap-Je '42

Foremen rewarded for efficiency in shell manufacture. Mach 49:181 S '42

Forging 90-mm. shells on self-contained presses. il Iron Age 149:47-50 Je 18 '42

Forging 37-mm. high explosive shells; Portland forge & foundry co. C. C. Barrenbrugge. il Iron Age 150:54-6 N 12 '42

From billets to bullets; illustrations with text. Iron Age 149:63 Je 18 '42

Gets into gun production rapidly by subcontracting 462 out of 471 parts; Oldsmobile. il Am Mach 86:588-91 Je 11 '42

Handling and cooling of shell forgings. diags Mech Handling 28:272-3 D '41

Heat treating high-explosive shell. J. McElgin. diags Steel 109:70, 72+ D 1 '41

High speed cutting of shell billets. A. F. Macconochie. il Steel 109:72, 74+ D 15 '41

Induction brazing in ordnance work. W. E. Benninghoff. il Steel 109:58+ D 29 '41

Interprocess cleaning of cartridge and shell cases employs drawing lubricants which emulsify or are soluble in water. G. R. Hersam. il diags Steel 110:86+ Je 15 '42

Line production of shell cases. il Am Mach 86:521-8 My 28 '42

Machining forged A.P. shot; centerless grinding forged bar stock. J. B. Nealey. il diags Iron Age 150:39-44 Jl 30 '42

Machining shell with carbide tools. M. F. Judkins. Mech Eng 63:859-60+ D '41; Abstract. Mach 48:156 D '41

Manufacture of shell; conference at National metal congress. Metal Prog 40:783-4+ N '41

Mechanical clamp for carbide tip. diags Iron Age 149:56-7 My 28 '42

Mechanical handling and machining of shells. il diag plan Mech Handling 29:10-12 Ja '42

Mechanical handling devices speed cleaning of shell and bombs. il Steel 110:88+ Je 1 '42

Metal cleaning and ordnance production. R. W. Mitchell. diag Steel 109:54+ D 29 '41

Modern shell production. rev & enl ed 159p pa $1.50 Penton pub. co, Cleveland '42

Multiple automatic gaging of shell. L. J. Mahlmeister. il Steel 109:64, 66, 68 D 8 '41

New equipment; finishing apparatus. il Iron Age 149:60-1 My 28; 72-4 Je 4 '42

New shell piercing press has double turrets. il Iron Age 150:73 S 17 '42

One-shot method of forging shells. W. P. Muir. il diags Iron Age 149:43-6 F 26 '42

Operations on 37-mm. high explosive shell. il diags Am Mach 86:837-48 Ag 6 '42

Positive stripper for shells. R. I. Miner. diags Am Mach 86:1250 O 29 '42

Production of jeeps, shells, and forgings at the Willys plant. J. Geschelin. il Automotive & Aviation Ind 87:20-5+ S 15 '42

Raise shell output with inductive heat. il Elec W 118:824 S 5 '42

Role of induction heating in war production. F. T. Chestnut. il diag Mech Eng 63:861-4 D '41; Same. Metals & Alloys 14:851-5 D '41

Saving rejected shell bodies; reweighting process which the French developed and used during 1914-18. R. Trautschold. Steel 110:66 Je 29 '42

Shell bodies heat treated uniformly in new rolling radiant-tube furnace. il diags Steel 110:78 Ja 19 '42

Shell for British 75-mm. guns; S. A. Woods machine company. L. E. Blood. il Am Mach 85:1217-30 N 26 '41

Shell machining problems; abstract. B. C. Brosheer. Am Mach 85:1183-4 N 12 '41

SHELLS (projectiles)—Manufacture—*Continued*

Shell production increased by the use of dry lubricant; graphoid-surfacing of mandrels and piercers for the hot-forging. Mach 48: 132+ F '42

Shell steel manufacture. C. M. Lichy. il Metal Prog 41:41-3 Ja '42

Shells of steel? substitution for copper. Business Week p14 N 22 '41

Simplex shell-centering machine. il Mach 48:165 Ja '42

Tool and holder for form-turning copper band on shells. D. A. Baker. diags Mach 48:137 My '42

Turning out 37-mm. shells on automatics. il diags Iron Age 150:50-4 Jl 9 '42

20-mm. shells made on improvised machine tools. diags Iron Age 149:44-7 Je 25 '42

Witter shell-forging process. J. H. Loux. il diags Mech Eng 64:123-9 F '42

Women take over small shell plant. il Iron Age 150:100 S 10 '42

SHELTERS, Air raid. See Air raid shelters

SHERMAN, Philemon Tecumseh, 1867-1941

Sketch. East Underw 42:107 D 12 '41

SHERMAN antitrust law

Antitrust act and the Supreme court; an analysis of the Supreme court decisions construing section I of the Sherman Antitrust act. E. P. Hodges. 282p $5 West '41

See also

Trusts, Industrial—Law

SHERRY

Spain's sherry shipments, 1940 and 1941. For Comm W 8:22 Jl 18 '42

SHERWIN-WILLIAMS company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:21 O 17 '42

Sherwin-Williams in war and peace. J. A. McWethy. il Barron's 22:9 Je 29 '42

SHICKSHOCK mountains

Glaciation of Shickshock mountains, Gaspé peninsula. R. F. Flint, M. Demorest and A. L. Washburn. bibliog maps Geol Soc Bul 53:1211-30, pl 1-2 Ag '42

SHIELS, G. K.

Portrait. Business Week p82 N 15 '41

SHIFT schedules. See Hours of labor—Shift schedules

SHIGELLA dysenteriae. See Dysentery

SHINGLES, Asphalt

Gypsum lays siege to replacement roofing market with 9-lb. sales plan. il Sales Management 50:22-4 My 15 '42

SHIP decoration

African Comet, passenger liner. il Marine Eng 47:116-20 Ja '42

SHIP model tanks

New model basins for U.S. navy. il diags Engineer 173:422-3, 440-2, 462-5, 487-9, 506-8 My 22-Je 19 '42

1941 annual report of Stevens experimental towing tank. Marine Eng 47:127-8 Mr '42

Testing our battlecraft before building them; David W. Taylor model basin. R. G. Skerrett. il diags Comp Air M 47:6651-7 F '42

SHIP names. See Ships—Names

SHIP plates

Carnegie-Illinois utilizes old equipment to convert mill to roll heavy plates. il Blast F & Steel Pl 30:920 Ag '42; Same. Marine Eng 47:249 O '42

SHIP propellers. See Propellers

SHIP propulsion

Kort nozzles score in unusual test; performance of U.S. Engineer tugs Escort, Convoy, Pilot and Scusset. il Marine Eng 47:87-9 F '42

Kort system of propulsion. A. M. Riddell. diags Engineering 154:18-20, 38-40 Jl 3-10 '42

Outboard power. il Business Week p19 Ag 15 '42

Propelling machinery of cross-Channel packets. W. Gregson. bibliog il diags plans map Inst Mech Eng J & Proc 147:Proc 147-84, pl 1-20 S '42; Same. Engineering 153: 156-9, 258-60, 318-20, 338-40, 358-9, 390, 397-400 F 20, Mr 27, Ap 17-My 1, 15 '42; Same cond. Engineer 173:92-5, 113-15, 134-6, 154-6 Ja 30-F 20 '42

Propulsion machinery in process of construction; General electric company. E. K. Henley. il Marine Eng 47:214-17 O '42

Recent towboat developments, with particular reference to Kort nozzle propulsion. A. J. Dawson. il Marine Eng 47:115-20; Discussion. 105, 120 Je '42

Test of transient conditions in maneuvering a Coast Guard harbor cutter; abstract and discussion. H. H. Curry and J. C. Fink. Marine Eng 46:100+ D '41

Why speed-govern marine turbines? F. H. VanNest. Marine Eng 47:140, 142 Jl '42

See also

Boilers, Marine
Diesel engines, Marine
Gas and oil engines, Marine
Motor ships
Propellers
Steam turbines, Marine
Steamboats

SHIP propulsion, Electric

Electric drive for ships. A. Peterson. Marine Eng 47:89-90 F '42

Electric ship. A. C. Hardy. Electrician 128: 307-9 Ap 3 '42

Electric shipbuilding. A. C. Hardy. Electrician 129:277-9 S 11 '42

Electric ships in contrast. A. C. Hardy. Electrician 128:589-91 Je 12 '42

Electricity in ships; over 500,000 horse-power now under construction. A. C. Hardy. Electrician 128:3-4 Ja 2 '42

Gotham, electric ferryboat. il Marine Eng 46:145 N '41

Operation of electric-drive ships. F. V. Smith. diags Marine Eng 47:143-8 S '42

Reversible magnetic coupling. diags Engineering 152:305-6 O 17 '41

Turbine-electric ships speed oil to mechanized armies; engineers needed. il Power 86:792-4 N '42

SHIP resistance

Roughened hull surface. R. W. L. Gawn. Engineering 153:378-9, 417-18 My 8, 22 '42

SHIPBUILDING

Assembly line methods used to build 200 Liberty ships. il Steel 110:55 Mr 23 '42

Assembly-line ship production; Ugly Ducklings or Liberty ships. il Manuf Rec 111: 18-19+ Mr '42

Audels shipfitter's handy book. R. Newstead. 252p $1 Theo. Audel & co. New York '40

Building British ships in California. C. F. A. Mann. il Marine Eng 47:102-11 Jl '42

Building Liberty ships in 46 days. il Eng N 129:84-9 Jl 16 '42

Deep South turns to shipbuilding; Ingalls shipbuilding corporation. R. H. Macy. il Mach 49:164-71 N '42

Fabrication and hull erection of submarine chasers. R. Hughes. il diags Engineer 173: 83-4 Ja 23 '42

Handbook of ship calculations, construction and operation. C. H. Hughes. 3d ed 558p $5 McGraw-Hill '42

Introduction to shipbuilding. 80p Labor division, War production board, Washington, D.C. '42

Larger steel sections for ships now prefabricated; Federal shipbuilding & dry dock co. il Steel 111:70 Jl 13 '42

Liberty ships built in basins and on ways; South Portland, Me. il Eng N 129:12-15 Jl 2 '42

Liberty ships built in sunken basins and on ways. C. O. Herb. il Mach 49:192-9 N '42

Machine flame cutting in shipbuilding. E. R. McClung and H. L. Wagener. il Welding J 21:105-11 F '42

Mass-built ships; assembly-line techniques on Liberty ships establish new speed records. il Business Week p19-20 Mr 7 '42

Modern shipfitter's handbook. W. E. Swanson. 2d ed rev & enl 309p $2.50 Cornell maritime press, New York '41

SHIPBUILDING—*Continued*

Mold loft's place in production. J. Greenhalgh and A. D. MacDonnell. il Marine Eng 47:120-3 Mr; 189 Ap; 128-32 My '42

Oregon completes original contract eight months ahead of schedule. Marine Eng 47:111 Jl '42

Practical principles of naval architecture. S. S. Rabl. rev ed 218p $2 Cornell maritime press, 350 W. 23d st, New York '42

Pre-assembling of tankers to speed up construction. Nat Pet N 34:26 F 18 '42

Pre-assembly speeds building of Ugly Duckling cargo vessels. Steel 110:37-8 F 23 '42

Prefabricated piping speeds shipbuilding. Heating-Piping 14:555-6 S '42

Pre-fabrication of ships in the United States. il Engineering 154:327-8, 330 O 23 '42

Production system, Bethlehem-Fairfield shipyard. il diags plans Marine Eng 47:178-97 O '42

Research work in ship construction. M. Palmieri. diags Marine Eng 47:129-30 Mr '42

70-ton pre-assemblies used to speed ship construction. il Eng N 129:224-8 Ag 13 '42

Ship construction and repair news. Published in monthly numbers of Marine engineering and shipping review

Shipbuilding and marine engineering in 1941. il Engineer 173:6-9, 35-7 Ja 2-9 '42

Ships from Denver; contracts to fabricate hulls of naval escort vessels. Business Week p22+ D 13 '41

Ships off the line; science and ingenuity help produce cargo vessels. A. D. Rathbone, 4th. il Sci Am 167:67-9 Ag '42

Shipyard injuries and their causes, 1941. F. S. McElroy and G. R. McCormack. Monthly Labor R 55:680-96 O '42

Standardization in European shipbuilding. Marine Eng 47:149-50 Ag '42

Team play on ship. Business Week p85 My 23 '42

Twenty-five years of shipping and shipbuilding. W. A. Woodeson. Engineering 152:396 N 14 '41

Why Kaiser is the world's number one shipbuilder; Oregon shipbuilding co. C. O. Herb. il Mach 49:132-43 N '42 (to be cont)

See also

Barges
Boat building
Ferryboats
Freight ships
Motor boats
Motor ships
Naval architecture
Navy yards and naval stations
Propellers
Ship decoration
Ship model tanks
Ship propulsion
Ships
Shipyards
Steam turbines, Marine
Steamboats
Submarine boats
Tank ships
Towboats
Warships
Yachts and yachting

also Federal shipbuilding and dry dock company

Dictionaries

Nomenclature of naval vessels. rev ed 89p Navy dept, Washington, D.C.; pa 20c Supt. of doc. '42

History

Normands of Havre. E. C. Smith. Engineering 153:104-6 F 6 '42; Same abr. Engineer 173:73-5 Ja 23 '42

Labor conditions

See Shipyards—Employees

Materials

Conservation and substitution in marine engineering. J. L. Kimberley. Marine Eng 47:257-9 O '42

Meehanite a substitute material for gear cases and propellers. Marine Eng 47:261 O '42

Micarta goes to sea. V. E. Enz and F. P. Hunsicker. il Marine Eng 47:121-3 Je '42

Plastics and their possible applications. V. E. Yarsley. Electrician 128:458 My 8 '42

Serrated beams make possible better steel ships. il Steel 110:88+ Ja 26 '42

Steel requirements for shipbuilding. H. L. Vickery. Marine Eng 47:103-5 Mr '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42

Painting

See Ships—Painting

Safety measures

See Shipyards—Safety measures

Statistics

America turns pro; shipbuilding program to break our biggest bottleneck; with table giving merchant vessels, gross tonnage launched by country, 1930-1939. H. F. Lee. Barron's 22:8 Ap 13 '42

Completions of steel merchant vessels of over 2,000 gross tons, 1914-1921, 1939-1942; charts. Dun's R 50:27 Ja '42

New cargo ships and tankers delivered by United States shipyards, 1941 and first half, 1942. Survey of Cur Business 22:3 Jl '42

Shipbuilding for defense; statistical data for 1941. Marine Eng 47:86-104 Ja '42

Shipyard story: production genius vs. Axis submarines. il Business Week p18-19 O 3 '42

Terminology

Primer of ship blueprint reading; glossary of shipyard terms. C. Clark. 121p pa $1.50 Cornell maritime press, 350 W. 23d st, New York '42

Welding operations

Advantages of welded piping for speeding shipbuilding. W. H. Girdler, jr. il diag Heating-Piping 14:666-7 N '42

All-welded deck house sides. C. M. Leavitt. diags Marine Eng 46:86-8 D '41

Arc welded light boats. il Iron Age 149:40 Ja 29 '42

Arc welders sew up U.S. cargo ships; illustrations. Elec West 88:56-7 Ap '42

Automatic welding in ship construction; Unionmelt process. il diags Engineering 153:241-3, 250 Mr 27 '42

Automatic welding in shipyards; Unionmelt. il diags Engineer 174:301-4 O 9 '42

Converting ore boats into ocean tankers. R. Wagner. diags Welding J 21:400 Je '42

Cutting and welding methods speed production; oxy-acetylene cutting and Unionmelt electric welding. il Marine Eng 47:227 O '42

Distortion and shrinkage problems in ships and other large structures. L. Grover. il diags Welding J 21:665-75, 776-81 O-N '42

Flame cutting and electric welding in shipbuilding. C. A. Rober. il Metal Prog 40:753-8 N '41

Ingalls saves weight, time and cost with all-welded construction. il Marine Eng 47:177 O '42

Machine welding speeds Liberty ships. il Eng N 129:426-9 S 24 '42

Method of welding seams and butts. F. T. Warner. Marine Eng 47:123 My '42

Porcelain welding ferrules made by regular steatite production methods. il Cer Ind 39:42-3 Jl '42

Production welding and cutting at West Coast yards. G. V. Slottman. il Marine Eng 47:218-26 O '42

Removing sea valves and patching hulls of converted ore boats. R. Wagner. diags Marine Eng 47:144 Jl '42

Residual stresses in welded ships. H. W. Pierce. il diags Welding J 21:307-14 My '42

Residual stresses in welded structures. H. E. Rossell. diags Marine Eng 47:101-2+ F '42

Revere, all-metal welded experimental cruiser. il Marine Eng 46:130 D '41

Sea Otter II; experimental blockade-breaking cargo ship is arc welded for speed and strength. A. F. Davis. il Welding J 21:175 Mr '42

Sea Otter II welded from wide strip. il Iron Age 148:60-1 D 11 '41; Same. Steel 110:64 Ja 19 '42

Serrated beams make possible better steel ships. il Steel 110:88+ Ja 26 '42

SHIPBUILDING—Welding operations—*Cont.*

South's all-welded ships; Ingalls shipbuilding corp. R. H. Macy. il Manuf Rec 110:22-3+ D '41

Straight-line production of Liberty cargo ships. J. A. Corlett. il Welding J 21:271-2 Ap '42; Same. Marine Eng 47:184-8 Ap '42; Same. Steel 110:74-5 Ap 6 '42

Stud-welding system. A. M. Candy. il plan Welding J 21:509-12 Ag '42

Survey of welding and cutting in ship construction. F. G. Outcalt and J. M. Keir. il diags Welding J 21:5-15 Ja '42; Same cond. Iron Age 149:38-41 Ja 15; 36-42 Ja 22 '42; Same cond. Steel 110:93, 96+ Mr 16; 86, 90, 92+ Mr 23 '42

Testing of welds. H. N. Pemberton. Engineer 173:315-16 Ap 10 '42

War program speeded by production line welded plant. G. F. Wolfe. il diags plans Marine Eng 47:106-14 Je '42; Same. Engineering 154:218-20, 230, 236-40 S 11-18 '42

Welded ships. Economist 142:838-9 Je 13 '42

Welding a ship a week; Oregon shipbuilding corp. H. W. Young. il Steel 110:77-8+ Mr 2 '42

Welding by Unionmelt on ore ship. il Marine Eng 47:128-9 S '42

Canada

Canada's great and comprehensive shipbuilding program. For Comm W 5:10 D 20 '41

Canada's new shipping-vessel subsidy. For Comm W 7:25 My 16 '42

Denmark

Denmark's producer-gas motorship. For Comm W 8:29 S 12 '42

France

French motor vessel Kairouan launched. For Comm W 7:21 Ap 11 '42

French shipbuilding: plans for reorganization of industry. Weekly Underw 145:1289 D 6 '41

Germany

Germany plans post-war reconstruction of merchant fleet. For Comm W 8:19 Jl 11 '42

Great Britain

Annual economic review of the British engineering industry. A. M. de Neuman. Engineer 173:44-6 Ja 16 '42

British shipbuilding and the war effort. Engineer 173:180-1 F 27 '42

British wartime cargo ships. il plans Marine Eng 47:124-7 Mr '42

British war-time shipbuilding. J. R. Gebbie. Engineering 154:324, 345-6 O 23-30 '42; Same cond. Engineer 174:334-6 O 23 '42

Design and speed of merchant ships. Economist 142:581 Ap 25 '42

Engineering outlook. Engineering 153:264 Ap 3 '42

Ships, more ships. Economist 142:471-2 Ap 4 '42

Japan

Bottoms down; Japan's soaring losses of merchant ships. Business Week p36+ My 23 '42

Japanese shipping and shipbuilding. il Marine Eng 47:98-107 My '42

Maine

Maine sets a launching record. il Marine Eng 47:138-9 S '42

Southern states

South's ship ways exceed 125. H. G. Smith. il Manuf Rec 111:23 Ja '42

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:22-3+ Ja '42

Spain

News by commodities. For Comm W 6:23-4 F 7 '42

Sweden

New ships launched, Nov. 1941. For Comm W 7:21-2 Ap 11 '42

Record of Swedish shipbuilding firm; Gotaverken shipbuilding yard. For Comm W 5:19 D 20 '41

Shipyards replacing merchant tonnage lost through war; most of previously exported tonnage goes to domestic shipping industry. For Comm W 6:17-18 Mr 21 '42

Stockholm shipyard builds vibrationless Diesel motorship. For Comm W 8:39 Jl 11 '42

Swedish shipbuilders have many orders. For Comm W 5:36 D 20 '41

United States

America turns pro; shipbuilding program to break our biggest bottleneck. H. F. Lee. Barron's 22:8 Ap 13 '42

American maritime industries and public policy, 1789-1914; an economic history. J. G. B. Hutchins. 627p bibliog(p583-606) $5 Harvard univ. press '41

America's Liberty ships built to deliver cargoes for war. il diags Product Eng 13:488-92 S '42

Bethlehem-Fairfield shipyard awarded triple Maritime commission honors. Marine Eng 47:152+ Ag '42

Cargo shipbuilding program on schedule. Comm & Fin Chr 155:1941 My 21 '42

Changing pattern of industry. il Adv & Sell 35:42+ O '42

Cramp's rehabilitated shipyard. M. Guralnick. il Marine Eng 46:60-6 D '41

Distinctive ships, 1941. il diags plans Marine Eng 46:103-50+ N '41

Effect of metal shortages on war. D. M. Nelson. Iron Age 150:93-5 Jl 2 '42

Epic of the Liberty shipyards. il Marine Eng 47:172-83 Ap '42

Expansion of shipbuilding. H. N. Gilbert. Harvard Business R 20 no 2:156-70 [Ja] '42

Government orders construction of sixteen Great Lakes iron ore carriers. Steel 110:48 Je 29 '42

Kaiser's ships; new yards in Portland area promise three vessels every five days. Business Week p67-8 Ap 11 '42

Liberty ships for victory. H. L. Vickery. Marine Eng 47:141-2 Ap '42

Major industry supports general defense. W. H. Hillyer. il Barron's 22:8 Je 29 '42

Maritime day. il Marine Eng 47:94-5 Je '42

Merchant vessel program on time. il Steel 111:116 O 5 '42

New shipbuilding record seen set by preassembly method. Iron Age 149:94-5+ F 19 '42

1942 best year in shipbuilding. Steel 110:407-9 Ja 5 '42

No. 1 bottleneck now is lack of ships. il Fortune 25:64-71+ My '42

Pacific Coast shipyards lead in construction of Liberty ships. Marine Eng 47:112-13 My '42

Production time for Liberty ships. Marine Eng 47:174-6 O '42

Pullman-Standard to build all-steel subchasers in new Chicago shipyard. Steel 110:63 My 4 '42

Report 360% rise in naval shipbuilding over a year ago. Comm & Fin Chr 156:463 Ag 6 '42

Reports on shipbuilding; SEC survey of American listed corporations. Comm & Fin Chr 155:2318 Je 18 '42

Richmond yard completes thirty ships for Great Britain. Marine Eng 47:148-9 S '42

Rushing the ships. Business Week p59-60 Ja 31 '42

Salute to the victory fleet; President Roosevelt's letter; Admiral Land's report. il Marine Eng 47:160-3 O '42; Same. Comm & Fin Chr 156:1175 O 1 '42

Ship construction program. E. S. Land. Marine Eng 46:56-9 D '41

Shipbuilders report new records. H. G. Smith. Marine Eng 47:106-7 Ja '42

Shipbuilders speed up. H. G. Smith. Marine Eng 47:143-4 Ap '42

Shipbuilding; achievement of private enterprise. il Manuf Rec 111:25-7 S '42

Shipbuilding for defense; statistical data for 1941. Marine Eng 47:86-104 Ja '42

SHIPBUILDING—United States—*Continued*

Shipbuilding in America. il Engineer 173: 264-5 Mr 27 '42

Shipbuilding industry leads in war effort. H. G. Smith. Marine Eng 47:167 O '42

Shipbuilding, no. 1 bottleneck. Business Week p13-14 Ap 11 '42

Shipbuilding volume up, profit margins down. Barron's 22:12 Ap 20 '42

Ships of concrete; Maritime commission lets contract for 24 self-propelled, seagoing craft. Business Week p56 Je 20 '42; Same. Eng N 128:970 Je 18 '42

Shipyards praised for contribution to Nation. Comm & Fin Chr 155:2125 Je 4 '42

Status of shipbuilding industry in the United States as of Oct. 1. Marine Eng 47:173 O '42

Tanker construction at highest level attained since first war. Oil & Gas J 40:106+ Ja 29 '42

This is a war of ships. E. S. Land. il Marine Eng 47:134-7+ Ap '42

Today's dynamic shipbuilding. E. S. Land. il For Comm W 8:3-5+ Jl 4 '42

Tonnage miracle. Business Week p14-15 Ag 8 '42

24 ships a month; Higgins shipyard promises. Business Week p64-5 My 16 '42

United States speeds war shipbuilding program. For Comm W 6:33 Ap 4 '42

Victory shipbuilding effort gains. E. S. Land. Marine Eng 47:105-6 Ja '42

Warns threats of manpower and material shortages endanger shipbuilding objectives. L. H. Korndorff. Comm & Fin Chr 156:1717 N 12 '42

Why we're building more ships faster. Barron's 22:1 S 14 '42

Your ships are on the way. H. L. Vickery. Marine Eng 47:98-9 Je '42

See also Newport News shipbuilding and drydock company

SHIPBUILDING stabilization committee

Roosevelt passes Porter a hot potato. Business Week p7 My 9 '42

SHIPMENT of goods

Canners use rails. Business Week p51-2 F 28 '42

Controls war containers; Container coordinating committee. R. W. Lahey. Chem Ind 51:231-2+ Ag '42

Floating the load; cuts handling and shipping damage. F. E. Stemm. il Steel 110:70 Je 29 '42

I.C.C. regulations changed. Chem Ind 51: 79 Jl '42

Maximum capacity, minimum labor with engineered conveyor system. W. R. Schlehr. il diag Cer Ind 38:66, 68, 70, 72 F '42

New loader increases freight car utilization; Evans utility loader. il Iron Age 149:51 Je 18 '42

ODT announces port traffic plan. Ry Age 112:1089+ My 30 '42; Same. Steel 110:42 Je 1 '42

Perfect shipping month. il Ry Age 112:584-5+ Mr 21 '42

Preparing shipments for Brazil. For Comm W 8:9+ Ag 1 '42

Preparing shipments to Mexico; documentation, and consular and customs requirements. R. M. Sams. For Comm W 9:11-13, 36-7 N 7 '42

Scheduling shipments under priority regulations; Caterpillar tractor co., Peoria, Ill. W. H. Franklin. N A C A Bul 23:1041-9 Ap 1 '42

What the shippers are doing; co-operation between carriers and their customers. il Ry Age 112:1036-40 My 23 '42

See also

Containers (for shipping)
Delivery of goods
Freight car service
Freight handling
Loading and unloading—Cars
Packing for shipment
Railroads—Rates
River traffic
Shipping departments
Transportation

SHIPPERS' advisory boards, National association of. See National association of shippers' advisory boards

SHIPPING

Merchant marine officers' handbook. E. A. Turpin and W. A. MacEwen. 740p $5 Cornell maritime press, 350 W. 23d st, New York '42

Merchant service to-day. L. Howe. 159p $1.50 Oxford (Toronto) '41

Ship's business. M. E. McFarland. 147p $2 Cornell maritime press, New York '42

Twenty-five years of shipping and shipbuilding. W. A. Woodeson. Engineering 152: 396 N 14 '41

See also

Barges
Freight handling
Insurance, Marine
Maritime law
Merchant marine
Ports
River traffic
Shipbuilding
Shipment of goods
Steamboat lines
Steamboats
Terminals
Train ferries
Transportation
Waterways
World war, 1939—Shipping

Accounting

Uniform system of accounts for carriers by water, effective Jan. 1, 1942. rev ed 112p U.S. Interstate commerce commission, Washington '42

Claims

Decision on prepaid freight money: shippers lose case before New York Supreme court. Weekly Underw 147:29 Jl 4 '42

Information leaks to enemy by law actions. E. C. Stiefel. Weekly Underw 147:276 Ag 8 '42

See also Insurance, Marine—Adjustment of claims

Congresses

Inter-American maritime conference, Nov. 25 to Dec. 2, 1940; report of delegates of the United States. 479p Supt. of doc. '41

Directories

Marine news directory. 17th ed 650p New York marine news co, New York '41

Law

See Maritime law

Rates

Increased surcharges on tanker freight rates. Marine Eng 47:140 My '42

Maritime commission clarifies rates on tanker voyage charters to Atlantic Coast points. Nat Pet N 34:15 Ja 21 '42

New maritime tanker scale. Nat Pet N 34: 17 F 4 '42

New rates for transporting coal. Marine Eng 47:171 Ap '42

Ocean freight rates in United States foreign trade. Survey of Cur Business 22:43 F '42

Australia

Australia establishes new cargo committee; speedy discharge and loading of ships insured. Weekly Underw 147:33 Jl 4 '42

Australian shipping. Economist 141:626-7 N 22 '41

Brazil

Brazil modifies load-line regulations. For Comm W 5:11 D 6 '41

Great Britain

British allocating government-built ships to private owners. For Comm W 8:31 Jl 4 '42

British blacklist of neutral vessels (cont). Weekly Underw 145:1139; 146:333 N 15 '41, F 7 '42

Concession to shipowners. Economist 141: 605 N 15 '41

Future of British shipping. P. Runciman. Engineering 153:215-16 Mr 13 '42

Government tonnage. Economist 142:659 My 9 '42

Insurance against nationalisation. Economist 142:694 My 16 '42

Liquidity v. profits in shipping. Economist 142:652-3 My 9 '42

SHIPPING—Great Britain—*Continued*

More shipping space; departure from terms of International loadline convention. Economist 141:516 O 25 '41

See also

World war, 1939—
Shipping

also Peninsular and Oriental steam navigation company

Great Lakes

Auxiliary ore route in North set. Iron Age 150:122 Ag 13 '42

Coal shipments on Great Lakes restricted to aid ore movement. Steel 110:43 Je 1 '42

Control over Lakes shipping extended. Steel 111:295 O 5 '42

Government orders construction of sixteen Great Lakes iron ore carriers. Steel 110:48 Je 29 '42

Great Lakes cargo control assumed by ODT. Oil Paint & Drug Rep 142:7 O 12 '42

Keep Lakes open? Business Week p43-4 D 6 '41

Keep the ore shipments going on the Lakes. F. M. Patterson. Pub Util 30:151-6 Jl 30 '42

Lake-opening; ore and coal fleets ready for record-breaking season. il Business Week p17-18 Mr 21 '42

Ore gets the ships. Business Week p17-18 My 16 '42

Pittsburgh steamship company making record in carrying ore. Blast F & Steel Pl 30:908 Ag '42

Safeguarding the ore flow; Escanaba will get two new loading docks. maps Business Week p18-19 O 10 '42

Speeds ore shipments by opening up new waterway; new ship canal, Keeweenaw waterway. R. B. Williams. il map Steel 111:96, 98 Ag 3 '42

Third giant iron ore carrier launched; lake fleet increased by seven vessels. il Steel 110:28 Ap 27 '42

Up and down the Great Lakes. Published in monthly numbers of Marine engineering and shipping review

See also

Chicago drainage canal
Iron ores—Transportation

Japan

Japanese merchant shipping. Economist 142:893-4 Je 27 '42

Japanese shipping and shipbuilding. il Marine Eng 47:98-107 My '42

Latin America

Proceedings of the Inter-American maritime conference, Pan American union, Washington, Nov. 25-Dec. 2, 1940. 2v 110p; 82p pa ea 25c Pan American union, Washington, D.C. '40

Netherlands

Dutch issue decree on ship requisitioning. Weekly Underw 147:969, 971-2 O 24 '42

New Hampshire

Ports of Piscataqua; soundings in the maritime history of the Portsmouth, N.H., customs district from the days of Queen Elizabeth and the planting of Strawberry banke to the times of Abraham Lincoln and the waning of the American clipper. W. G. Saltonstall. 244p bibliog(p227-35) $3.50 Harvard univ. press '41

New York (city)

Maritime history of New York. 341p bibliog(p321-6) $3 Doubleday '41

Norway

Norway, Norwegian shipping and the war. O. Lorentzen. 32p pa 10c Oxford '42

Penobscot bay

Steamboat lore of the Penobscot. J. M. Richardson. 141p $3.50 John Mitchell Richardson, 15 Granite st, Rockland, Me. '41

Sweden

Recent record of merchant marine; earnings, 1938-1941. For Comm W 9:20 O 17 '42

Swedish foreign-shipping traffic during 1941 shows decline. For Comm W 7:24-5 Ap 11 '42

Swedish merchant marine approximates prewar tonnage. For Comm W 6:17 Ja 10 '42

War's effect on Swedish shipping company. For Comm W 5:35 D 13 '41

United States

Admiral Land to head new War shipping administration. Comm & Fin Chr 155:688 F 12 '42

American maritime industries and public policy, 1789-1914; an economic history. J. G. B. Hutchins. 627p bibliog(p583-606) $5 Harvard univ. press '41

Government takes over sea-going cargo vessels. Weekly Underw 146:955 Ap 25 '42

Import order M-63 amended to control shipping space. Oil Paint & Drug Rep 142:7 Jl 6 '42

Policy announced for allocating ships and shore services. Marine Eng 47:101 Mr '42

Proceedings of the Inter-American maritime conference, Pan American union, Washington, Nov. 25-Dec. 2, 1940. 2v 110p; 82p pa ea 25c Pan American union, Washington, D.C. '40

Scarce metals and shipping our biggest problems. Bankers M 144:363 Ap '42

Shipping, 1941. Survey of Cur Business 22:41-3 F '42

Shipping priority on 500 import items. Comm & Fin Chr 156:639 Ag 20 '42

What's needed in the Gulf. W. Chatfield-Taylor. For Comm W 6:3+ Ap 4 '42

See also

Merchant marine—
United States

also Pacific Coast maritime industry board; War shipping administration

SHIPPING departments

Ten-step plan to stop waste; Hibbard, Spencer, Bartlett and company conserves supplies of paper, cartons, boxes. H. E. Fleming. il Am Business 12:22-4 F '42

SHIPS

Behaviour of ships. J. H. Narbeth. Engineering 153:15-16, 24-5 Ja 2-9 '42

Brave ships of England and America. J. Leeming. 344p $2.50 Nelson '41

Chesapeake Bay bugeyes. M. V. Brewington. 117p bibliog(p104-12) $3 Mariners' museum, Newport News, Va. '41

Distinctive ships, 1941. il diags plans Marine Eng 46:103-50+ N '41

See also

Airplane carriers
Barges
Dredges
Ferryboats
Fishing boats
Freight ships
Lighters
Lightships
Loading and unloading—Ships
Merchant marine
Motor ships
Naval architecture
Propellers
Refrigeration on ships
Safety at sea
Seamen
Ship decoration
Ship propulsion
Shipbuilding
Shipping
Steamboats
Tank ships
Towboats
Train ferries
Warships
Yachts and yachting

Air conditioning

Refrigeration equipment for merchant ships. A. C. Rohn and J. H. Clarke. il plan Refrig Eng 44:13-16; Discussion. 16, 48-50 Jl '42

Cargo

Care of cargo at sea, interim report on dehumidification in ships; abstract and discussion. O. D. Colvin and W. H. E. Hahne. Marine Eng 46:96 D '41

Cargo space limited to war essentials. Marine Eng 47:138 Ag '42

See also

Freight ships
Stowage

SHIPS—*Continued*

Deck coverings

Deck coverings for modern ships. E. Swanson. Marine Eng 47:130-1 Jl '42

Electric equipment

Alternating current in the United States navy. H. G. Rickover. il Elec Eng 61:289-302 Je '42
Care and upkeep of electric motors. J. J. Davey. il Marine Eng 47:80-3+ F '42
Electric clocks at sea. S. F. Philpott. il diags Elec R (Lond) 130:35-8 Ja 9 '42
Electric ship. A. C. Hardy. Electrician 128: 307-9 Ap 3 '42
Electrical control equipment. E. H. Alexander. il Marine Eng 47:144-8 Ag '42
Electrical developments of 1941; marine equipment. G. Bartlett. il Gen Elec R 45: 36-8 Ja '42
Insulation aboard U.S. navy vessels. J. B. Lunsford. il Mod Plastics 20:45-9+ O '42
Marine electrical installation. J. F. Piper. 2d ed 394p $2.50 Cornell maritime press, New York '41
Progress in shipbuilding; abstract. W. A. Woodeson. Electrician 127:236 O 24 '41
Review of the direct-current compound generator as used aboard ship. H. A. de Bonneval. diags Marine Eng 47:115-19 Mr '42
Stripping basket weave armored cable. A. J. Domini. diag Marine Eng 47:110 F '42

See also
Electric driving—Ships' auxiliaries
Ship propulsion, Electric

Equipment

African Comet, passenger liner. il diags plans Marine Eng 47:112-24+ Ja '42
Baldt anchors and chain for ships to sail the seven seas. E. J. McGuiness. il Mach 49:180-7 N '42
Boat crane booms are welded from tubular members. il diags Steel 110:96, 99-100 My 25 '42
Cowl ventilators formed on huge drawing press. il Marine Eng 47:267 O '42
How one manufacturer meets increased wartime demands; American engineering company manufactures marine auxiliaries. J. S. Bennett. il Marine Eng 47:243 O '42
Keep 'em sailing; ship propulsion equipment manufacture; illustrations with text. Power Pl Eng 46:68-9 S '42
Leon Fraser, Great Lakes ore carrier. il Marine Eng 47:124-7 S '42
Liberty ship. il diags Marine Eng 47:152-65 Ap '42
Machinery of mass-produced cargo vessels. Engineering 154:176 Ag 28 '42
Machinery weights; data for estimating weights of ship machinery. E. A. Stevens, jr. Marine Eng 47:134-7 Ag; 156-9 S; 143-5 N; 167-8 D '42 (to be cont)
Manufacturers of materials and equipment for the Liberty ships. Marine Eng 47:204, 206, 208 Ap '42
Notes on marine pumps; installation, operation, maintenance. W. Quimby. il Marine Eng 47:123-6 Jl '42
Power equipment of the ore carrying steamer Leon Fraser. Blast F & Steel Pl 30: 449-50 Ap '42
Propulsion machinery in process of construction; General electric company. E. K. Henley. il Marine Eng 47:214-17 O '42
Record year for marine equipment. D. W. Niven. il Marine Eng 47:108-10 Ja '42
Ship chains made by fire welding and electric welding; S. G. Taylor chain co. il Mach 49:200-4 N '42
Simplification and standardization increase availability of products; Worthington pump and machinery corporation. Marine Eng 47:253 O '42
Sinclair H-C, new Sinclair refining company tanker. il plans Marine Eng 47:106-13 Mr '42
Who will man the Liberty ships? description of power equipment. il diags Power 86: 460-3 Jl '42

See also
Boilers, Marine
Lifeboats
Propellers
Refrigeration on ships
Ships—Piping

Fires and fire protection

Begin Normandie salvage. Comm & Fin Chr 155:2131 Je 4 '42
Lessons from destruction of Normandie; recommendations by Investigating committee. Weekly Underw 146:941+ Ap 25 '42
Marine fire prevention and control. A. J. Smith. East Underw 43:27 My 15 '42
More fires reported on capsized Normandie. Ins Field (Fire ed) 71:24-5 Ap 23 '42
Normandie carried no marine insurance. East Underw 43:18 F 13 '42
Plant within a plant speeds shipbuilding; Walter Kidde & company; branch fire extinguisher factories in shipyards. H. H. Dierksen. il Marine Eng 47:176-7 O '42

Heating and ventilation

Ship ventilation; abstract. W. Yedlin. Heat & Ven 38:60 D '41
Ventilaire system on Alcoa ships. diags plans Marine Eng 46:83-5+ D '41

Model testing

Growing importance of small models for studies in naval architecture; abstract. K. S. M. Davidson. Marine Eng 46:89-90; Discussion. 90-1 D '41
Roughened hull surface. R. W. L. Gawn. Engineering 153:378-9, 417-18 My 8, 22 '42

See also
Ship model tanks

Names

Names for the emergency ships. H. M. Wick. Marine Eng 47:162, 164, 166+ S '42

Painting

Mercury poisoning from the use of antifouling plastic paint. L. J. Goldwater and C. P. Jeffers. J Ind Hygiene 24:21-3 F '42
Underwater paints for ships. H. W. Rudd. Paint Oil & Chem R 104:9-10 Ja 15 '42

Piping

Advantages of welded piping for speeding shipbuilding. W. H. Girdler, jr. il diag Heating-Piping 14:666-7 N '42
Data on marine sheet metal work; square, rectangular, round and flat oval piping. Sheet Metal Worker 33:55-6 My '42
Erection of piping by welding aids war effort; cost and speed data. diags Marine Eng 47:168 S '42
How piping is welded for navy service. H. W. Hiemke and J. D. Bert. diags Heating-Piping 14:235-6 Ap '42
Insulated shipboard piping now jacketed with Fiberglas tape. il Marine Eng 47:118+ F '42
Prefabricated piping speeds shipbuilding. Heating-Piping 14:555-6 S '42
Shipyard pipe shop streamlines fabrication for Liberty ships. R. S. Jones. il Heating-Piping 14:600-2 O '42

Reconstruction

Converting ore boats into ocean tankers. R. Wagner. diags Welding J 21:400 Je '42

Repair

Ghost fleet; ships sunk or damaged repaired for merchant marine. il Marine Eng 47: 150-2 S '42
Salvage of U.S.S. Lafayette. il diag supp Engineer 174:126-8 Ag 14 '42
Ship repair and alteration. G. V. Haliday and W. E. Swanson. 378p $2.75 Cornell maritime press, 350 W. 23d st, New York '42
Ship repair expands 400 per cent since war started; many vessels converted. Steel 111: 44 Ag 31 '42
Wartime ship repairs; cost and the contract system. Economist 142:477-8 Ap 4 '42

SHIPS —*Continued*

Safety

See Lifeboats; Safety at sea; Ships—Fires and fire protection

Sanitation

Pure-gum calking compound used in verminproofing ships. Marine Eng 47:95 F '42

Stability

Control problems. N. Minorsky. diags Franklin Inst J 232:451-87, 519-51 bibliog(p550-1) D '41

Stern tubes

Marine bearings; laminated plastic bearings for stern tubes in ships. H. C. Irvin. il Mod Plastics 19:33-4+ Ap '42

Steward's department

Service manual, steward's department, all ratings. 100p pa $1 Cornell maritime press, New York '41

Strains and stresses

Residual stresses in welded ships. H. W. Pierce. il diags Welding J 21:307-14 My '42

Testing

Liberty ships rigidly tested. il Marine Eng 47:166-7 Ap '42

See also
Ship model tanks

Vibration

General observations on vibration. J. Calderwood. Engineering 152:339-40, 344-5 O 24-31 '41

SHIPS, Concrete

Possibilities of the concrete boat. L. Kauf. bibliog il Concrete 50:2-4 My '42

Ships of concrete; Maritime commission lets contract for 24 self-propelled, seagoing craft. Business Week p56 Je 20 '42; Same. Eng N 128:970 Je 18 '42

SHIPS, Wooden

See also
Sailing vessels

SHIPWRECKS

Historic accidents and disasters; the Princess Alice. il Engineer 174:206-8 S 11 '42

How to abandon ship. P. Richards and J. J. Banigan. 152p $1 Cornell maritime press, New York '42

SHIPYARDS

Abandonment of biggest shipyard; Higgins yard, New Orleans. Eng N 129:125 Jl 23 '42

Bechtel Marinship yard launches its first ship. il Marine Eng 47:232-4 O '42

Bethlehem-Fairfield shipyard awarded triple Maritime commission honors. Marine Eng 47:152+ Ag '42

Cramp's rehabilitated shipyard. M. Guralnick. il Marine Eng 46:60-6 D '41

Emergency shipyard at Houston. il Marine Eng 47:134-6 Jl '42

Epic of the Liberty shipyards. il Marine Eng 47:172-83 Ap '42

Liberty ships built in basins and on ways; South Portland, Me. il Eng N 129:12-15 Jl 2 '42

Navy supervisor's office at Fore River. Marine Eng 47:111 F '42

Pile foundations salvaged for shipyard. il Eng N 129:354-6 S 10 '42

Plant within a plant speeds shipbuilding; Walter Kidde & company; branch fire extinguisher factories in shipyards. H. H. Dierksen. il Marine Eng 47:176-7 O '42

Production system, Bethlehem-Fairfield shipyard. il diags plans Marine Eng 47:178-97 O '42

Rheem yard hits its stride. il Marine Eng 47:228-31 O '42

Richmond yard no. 2 of the Permanente metals corporation. C. F. A. Mann. il Marine Eng 47:126-33 Ag '42

Ship repair expands 400 per cent since war started; many vessels converted. Steel 111: 44 Ag 31 '42

Shipbuilding yard; views, plans, construction outline. Arch Forum 77:82-8 O '42

Southern shipyard produces EC-2 ships; Brunswick marine construction corporation. il Marine Eng 47:235-6 O '42

South's all-welded ships; Ingalls shipbuilding corp. R. H. Macy. il Manuf Rec 110: 22-3+ D '41

Timber trusses of 77.5-ft. span sold, ready-made, to shipyard. il Eng N 128:1041 Je 25 '42

Victory shipyard on the Gulf coast. il Marine Eng 47:241-3 O '42

Wainwright yard in production race. il Marine Eng 47:237-40 O '42

See also
Navy yards and naval stations
Shipbuilding

Accidents

Shipyard injuries and their causes, 1941. F. S. McElroy and G. R. McCormack. Monthly Labor R 55:680-96 O '42

Electric equipment

Automatic welding in shipyards; Unionmelt. il diags Engineer 174:301-4 O 9 '42

Load-center distribution system for industrial plants, shipyards and naval projects. il diag Marine Eng 47:91-4 F '42

Loop that is not a loop; Marinship electric distribution system. il diags Elec West 89: 45-7 O '42

Machine welding speeds Liberty ships. il Eng N 129:426-9 S 24 '42

Employees

Britain's women working in the shipyards. Marine Eng 47:158 Ag '42

Building British ships in California; contracting technique combined with intelligent labor speeds up emergency ship construction. C. F. A. Mann. il Marine Eng 47:102-11 Jl '42

Characteristics of shipbuilding labor hired during first 6 months of 1941. O. R. Mann and S. F. Miller. Monthly Labor R 54:393-7 F '42

Federal Shipbuilding to grant union maintenance under war compulsion. Steel 110: 54 My 11 '42

Hourly earnings in private shipyards, 1942; wage stabilization. W. C. Quant. Monthly Labor R 55:810-29 O '42

Hourly earnings in shipbuilding on the Pacific coast, 1942. W. C. Quant. Monthly Labor R 55:298-305 Ag '42

Industrial sources of shipbuilding accessions in the Pacific Northwest. Monthly Labor R 55:735-6 O '42

It's Kearny again; final determination of maintenance-of-membership issue is promised. Business Week p74 Ap 4 '42

Kaiser incident; explanation of profits and production policy of shipyards comes as byproduct of walkout. Business Week p69-70 Mr 28 '42

Kaiser plan fails; boilermakers in Portland object to importing labor from New York. Business Week p18 O 24 '42

Kaiser problems; workers from East added to Portland's pinch in housing. Business Week p24+ O 10 '42

Kearny pitfall; Federal Shipbuilding case. Business Week p71-2 Ap 25 '42

NYA trains shipyard workers. il Marine Eng 47:104-6 F '42

New shipbuilding stabilization agreement. Monthly Labor R 55:85-6 Jl '42

New wage earners required each month in shipyards on construction and repair of United States government, British and private vessels, July 1940-Nov. 1942; chart. For Comm W 6:17 Ja 17 '42

Overcoming the shortage of shipfitters. F. T. Warner. Marine Eng 47:127+ My '42

Pacific Coast shipbuilding agreement. Monthly Labor R 54:384 F '42

Shipyard morale. R. J. Scanlon. Personnel J 21:23-33 My '42

Sundayless week; West Coast shipyards. Business Week p65 Ja 31 '42

SHIPYARDS—Employees—*Continued*

Todd riveters set world record. il Marine Eng 47:127+ Jl '42

Total number of wage earners in shipyards on construction and repair of U.S. government, British and private vessels; annual average 1935-1940, average first half of 1941, September 1941 and estimate for November 1942; chart. For Comm W 6:24 Ja 10 '42

Training new workers in the shipyards. S. Hillman. Marine Eng 47:145 Ap '42

Training shipyard workers. H. L. Seward. il Marine Eng 47:211-13+ O '42

Union maintenance ordered by 8-4 WLB vote at Federal Shipbuilding. Steel 110:67 My 4 '42

War production drive; labor-management committees, incentives, awards, and other promotion aids. Marine Eng 47:254-5 O '42

Workers West; Kaiser's need for help is Mrs Rosenberg's opportunity. Business Week p74-5 O 3 '42

See also
Shipbuilding

Equipment

Building Liberty ships in 46 days. il Eng N 129:84-9 Jl 16 '42

Cylinder columns carry shipyard cranes. il diags Eng N 128:324-6 F 26 '42

Deep South turns to shipbuilding; Ingalls shipbuilding corporation. R. H. Macy. il Mach 49:164-71 N '42

Divergent tip for oxyacetylene cutting. R. F. Helmkamp. il diag Marine Eng 47:96-100 F '42

Large mold loft of timber construction. il Eng N 129:282-4 Ag 27 '42

Liberty ships built in sunken basins and on ways. C. O. Herb. il Mach 49:192-9 N '42

Mold loft's place in production. J. Greenhalgh and A. D. MacDonnell. il Marine Eng 47:120-3 Mr; 189 Ap; 128-32 My '42

Novel heating applications in the shipbuilding field. F. Pederson. il Marine Eng 47:133 Mr '42

Production system, Bethlehem-Fairfield shipyard. il diags plans Marine Eng 47:178-97 O '42

70-ton pre-assemblies used to speed ship construction. il Eng N 129:224-8 Ag 13 '42

Shipyard uses basins instead of ways. il Eng N 129:293-5 Ag 27 '42

Why Kaiser is the world's number one shipbuilder; Oregon shipbuilding co. C. O. Herb. il Mach 49:132-43 N '42 (to be cont)

Lighting

Floodlighting for shipbuilding; Mare Island navy yard. H. J. Prosser. diags Elec West 89:53-4 O '42

Management

Building British ships in California; contracting technique combined with intelligent labor speeds up emergency ship construction. C. F. A. Mann. il Marine Eng 47:102-11 Jl '42

How they break world records at the Oregon shipyard. C. F. A. Mann. il Marine Eng 47:198-210 O '42

How to organize and carry out a factory scrap campaign. il Marine Eng 47:262-5 O '42

Load charts show up production bottlenecks; Manitowoc ship building company. A. N. Dedricks. Factory Management 100:74-6+ Jl '42

Safety measures

Competition on the shipways; safety contests, Philadelphia navy yard. H. C. McIlvaine. il Nat Safety N 45:20-1 Je '42

Heavy duty safety. C. R. True. il Safety Eng 84:16-18 S; 62-4 O '42

Shipyard takes over. J. M. Techton. il Nat Safety N 46:12-13, 62+ Jl '42

SHIRTS

Manufacture

Prospects for loans to shirt manufacturers; protection given by each type of insurance. W. V. Stegman. Bankers Mo 59:396-8+ S '42

Rating

Men's broadcloth shirts. il Consumers' Research Bul 9:15-16 Je '42

SHOCK

Shock; its dynamics, occurrence and management. V. H. Moon. 324p $4.50 Lea & Febiger, Washington sq, Philadelphia '42

Shock treatment in psychiatry. L. Jessner and V. G. Ryan. 149p bibliog(p125-49) $3.50 Grune & Stratton, 443 4th av, New York '41

SHOCK absorbers

Absorbs shock loads; patent assigned to Weskenson corp. diag Machine Design 14:118+ Mr '42

Mass of balls replaces fluid; shock absorber patent assigned to American steel foundries. diag Machine Design 14:128+ Jl '42

SHOE dressings

Shoe polishes and cleaners. C. T. Small. il Chem Ind 50:500-4 Ap '42

SHOE factories

Employees

Potential health hazards of the leather industry. W. J. McConnell, J. W. Fehnel and J. J. Ferry. J Ind Hygiene 24:93-108 My '42

Lighting

Fluorescent units in a shoe factory; case study in approved conversion lighting. diag Elec W 118:116 Jl 11 '42

SHOE industry and trade

Joyce licks production peaks and valleys, then rations everybody; play shoes. J. H. Collins. il Sales Management 51:42-4 S 15 '42

Outlook for shoe industry. Barron's 22:12 My 25 '42

Shoeman's manual. V. K. Cameron, ed. 96p pa $1 W. E. Gill, 10 High st, Boston '41

Why sales showings of leading shoe chains differ. Barron's 22:16 Ag 24 '42

Advertising

Shall we go barefoot, or not? two conflicting advertising headlines. E. Peterson. il Ptr Ink 201:15-16 O 9 '42

Costs

Long-run behavior of costs in a chain of shoe stores; a statistical analysis. J. Dean and R. W. James. J Business 15:1-54 pt 2 Ap '42

Statistics

Leather footwear outlook through 1943. J. G. Schnitzer. Survey of Cur Business 22:7-12 S '42

Canada

Canada's shoe output hits new high. A. L. Hunter. For Comm W 8:10 Ag 29 '42

News by commodities. For Comm W 7:23 My 9 '42

Great Britain

Footwear control. Economist 141:604-5 N 15 '41

Further boot and shoe results. Economist 142:334-5 Mr 7 '42

Latin America

Shoes of the Americas; war developments expand footwear industry of the other American republics. il For Comm W 6:3-5+ F 14 '42

Norway

In Nazi Norway; used shoe exchange; galoshes can be had on physician's prescription. For Comm W 7:20 My 16 '42

United States

Business behavior, 1919-1922. W. F. Payne. bibliog J Business 15:sup55-81 Jl-O '42

SHOE industry and trade—United States—*Cont.*

If the shoe fits; story of hides, leather, and the war. Business Week p92-4 Je 27 '42

Leather footwear outlook through 1943. J. G. Schnitzer. Survey of Cur Business 22: 7-12 S '42

Shoe and leather business outlook for 1942. C. F. Danner. Comm & Fin Chr 155:451 Ja 29 '42

Soldier shoes first. Business Week p75+ Mr 28 '42

WPB restricts shoe styles and colors. Comm & Fin Chr 156:1099 S 24 '42

Why shoe rationing looms. Barron's 22:6 Ap 6 '42

Will shoes have to be rationed? Barron's 22:6 Ag 10 '42

SHOE lacings

Plastics competition award to Hutmacher braiding co.; shoelace dispenser. il Mod Plastics 19:78-9 N '41

SHOE machinery

Patents

Patent infringement claim upheld by Court; Williams manufacturing co. of Ohio and United shoe machinery co. Comm & Fin Chr 155:2129 Je 4 '42

SHOE polish

Shoe polishes and cleaners. C. T. Small. il Chem Ind 50:500-4 Ap '42

SHOE repair shops

Joseph Zinke takes shoe repairs from back alley to Main street. il Sales Management 51:50 O 20 '42

SHOE stores

Long-run behavior of costs in a chain of shoe stores; a statistical analysis. J. Dean and R. W. James. J Business 15:1-54 pt 2 Ap '42

SHOES

Substitutes for shoe leather. M. Estabrook. Science 96:sup9-10 Ag 21 '42

Care

Care of leather shoes. Consumers' Research Bul 9:25-6 My '42

You're going to walk more; watch your shoes. Nat Safety N 45:91 My '42

Dictionaries

Shoe and leather lexicon. A. D. Anderson, comp. 11th rev ed 108p 50c Boot and shoe recorder pub. co, 100 E. 42d st, New York '41

Manufacture

Potential health hazards of the leather industry. W. J. McConnell, J. W. Fehnel and J. J. Ferry. J Ind Hygiene 24:93-108 My '42

Shoeman's manual. V. K. Cameron, ed. 87p pa $1 Gill publications, 10 High st, Boston '41

Repair

See also

Shoe repair shops

Standards

Scientific measurements are needed as basis for standard shoe sizing. C. W. Moffet. il Ind Stand 12:295-6 N '41

SHOES, Rubber

New tennis shoe factory at Matanzas, Cuba. For Comm W 5:39 N 15 '41

OPA to ration rubber boots and work shoes. Comm & Fin Chr 156:1270 O 8 '42

Repairing rubber footwear in Germany. India Rubber W 105:504-6 F '42

Used tires and tubes and certain footwear rationed. India Rubber W 107:183 N '42

See also

Soles, Rubber

Advertising

Conservation, with a smile. il Ptr Ink 199: 40 Je 12 '42

Prices

Agreement establishing maximum prices for waterproof rubber footwear. India Rubber W 106:46+ Ap '42

SHOES, Safety

Injury caused by wearing a work shoe held a compensable accident. Monthly Labor R 53:1462 D '41

Lower extremities. il Nat Safety N 45:22+ Mr '42

New ASA war project covers safety shoes. Ind Stand 13:206 Jl '42

On your toes; foot injuries and safety shoes. G. E. Twining. il Safety Eng 83:11-12+ My '42

Toe injuries show need for safety shoes. Nat Safety N 45:78 Ap '42

SHOOTING

Accidents

Shooting accidents high in United States. Weekly Underw 147:563 S 12 '42

SHOPPING

How they shop Monday nights in Pittsburgh. Ptr Ink 201:58 N 6 '42

How to buy more for your money. S. Margolius. 81p bibliog(p81) pa $1 Modern age books, 245 5th av, New York

Merchandise availability in Utah. D. E. Faville, D. M. Jones and R. B. Sonne. 229p $3 Stanford univ. press '42

SHOPPING centers

Shopping center for a defense community. il plan Am Bld 64:38 Jl '42

Shopping centers. H. W. Green. 1941 ed 38p pa $1.50 Real property inventory of metropolitan Cleveland, 1001 Huron road, Cleveland '41

Shopping facilities in wartime; building types study. il diag plans Arch Rec 92:63-72 O '42

Two shopping centers; Vallejo, Calif., North Little Rock, Ark. il plans Arch Rec 91:60-1 My '42

SHOPPING services

Streamlined shopping credit. A. Cragg. J Business 15:21-9 Ja '42

SHOPS

See also

Car shops
Locomotive shops
Machine shops
Motor bus lines—Shops
Plumbing shops
Railroads—Shops
Repair shops
Sheet metal shops

SHORE lines

Shoreline changes on Plum Island, Massachusetts. R. I. Nichols. maps Am J Sci 240: 349-55, pl 1 My '42

See also

Coast changes

SHORE protection

Precast concrete jetties create beaches and prevent shore erosion. S. M. Wood. il diags Concrete 50:2-4 Ag '42

See also

Flood control
Levees
Rivers—Bank protection

SHOREA robusta

Fatty acids and glycerides of solid seed fats; Shorea robusta kernel fat. T. P. Hilditch and Y. A. H. Zaky. Soc Chem Ind J 61: 34-6 F '42

SHORING and underpinning

Special shoring for building excavation; West central heating plant for the Public buildings administration in Washington. il diags Eng N 129:16-17 Jl 2 '42

Wire rope on construction job aids shoring and bracing. diags Eng N 128:621 Ap 23 '42

See also

Building
Foundations

SHORT circuits

Analysis of short circuits for distribution systems. C. F. Dalziel. bibliog diags Elec Eng 61:Trans 757-64 O '42

Anodizing tank short circuits overcome; linings of Unichrome Resist sheet. O. H. Loven. il diag Iron Age 150:98-100 O 1 '42

Breaker reduces arc back problem. J. W. Seaman and L. W. Morton. il Blast F & Steel Pl 30:1052-3 S '42

SHORT circuits—*Continued*

Breakers have got to break. W. A. Holland. il diags Factory Management 99:83-5 D '41; 100:119-20 Ja '42

Cable sizes; allowing for the worst possible conditions E. A. Beavis. Elec R (Lond) 131:76 Jl 17 '42

Calculator applied to industrial system. W. W. Parker. diags Elec W 118:1267-8 O 17 '42

Current transformers; short-circuit capacity of the wound type. H. E. Forrest. il Elec R (Lond) 130:335-7 Mr 13 '42

Damper circuits and rotor leakage in the transient performance of saturated synchronous machines. R. Rüdenberg. diags Franklin Inst J 234:39-61 Jl '42

Fault conditions; relationship between cables and switchgear. Elec R (Lond) 130:719-21 Je 5 '42

Formulas for calculating short-circuit stresses for bus supports for rectangular tubular conductors. T. J. Higgins. bibliog Elec Eng 61:Trans 578-80 Ag '42

High-rupturing-capacity cartridge fuse, with special reference to short-circuit performance. J. W. Gibson. diags Inst E E J 88 pt 2:2-24 bibliog(p 19-20) F '41; Discussion. 88 pt 2:24-40, 593-9 F, D '41

How can short circuits in underground cables be located? C. O. von Dannenberg. diag Power Pl Eng 46:100-1 Jl '42

New fault-current-calculating procedure recommended to industry. Elec Eng 60:596-7 D '41

Quicker way of computing distribution short circuits; combination of charts, template and table. J. D. Sauter and G. F. Lincks. Elec W 117:992-4 Mr 21 '42

Short-circuit currents; co-ordinating cable size with system characteristics. E. A. Beavis. Elec R (Lond) 130:363-6 Mr 20 '42

Short-circuits in cables due to bomb damage. E. A. Beavis. il diag Elec R (Lond) 130:327-9 Mr 13 '42

Short circuits in synchronous-machine armatures. R. A. Galbraith. bibliog Elec Eng 60:Trans 1024-9 D '41

Simplified calculation of fault currents. Elec Eng 61:509-11 O '42

System short circuits; calculation of the currents when applying interrupting devices and relays. C. A. Woodrow. Gen Elec R 45:357-9 Je '42

Thermal co-ordination of motors, control, and their branch circuits on power supplies of 600 volts and less. B. W. Jones. Gen Elec R 45:273-9 My '42; Same. Elec Eng 61:Trans 483-7 Jl '42

SHORTENING

It's the little things that count; off-flavors, rancidity, etc. can often be traced to presence of minute quantities of metals, acting as catalysts. J. A. Dunn. Food Ind 14:41-4+ Ag '42

Shortening; animal and vegetable fats. il Can Chem & Process Ind 26:73-7 F '42

Shortening stabilization; patent. Food Ind 13:100 D '41

SHORTHAND

Garber's international shorthand. O. Garber. 84p pa $1.50 Progressive publishers co, 714 Lime av, Long Beach, Calif. '42

Gregg speed studies. J. R. Gregg. 3d ed 442p $1.50 Gregg '41

Stenographer's reference manual; a handbook for stenographers, a guide for the transcription and the placement of letters. L. A. Larsen, L. E. Freitag and A. M. Koebele. 2d ed 103p bibliog(p99-100) Southwestern pub. co. '42

Technique of shorthand reporting. C. L. Swem. 165p $1.50 Gregg '41

Dictionaries

Garber's international shorthand; dictionary. O. Garber. 169p $3 Progressive publishers co, 714 Lime av, Long Beach, Calif. '42

SHOT

Chilled steel shot and grit. A. S. Park. il Comp Air M 47:6684-8 Mr '42

Lead from skeet grounds. Business Week p36 Je 6 '42

SHOT blasting

Cleaning pipe by shot blasting. il Iron Age 150:62E Jl 30 '42

Effect of shot blasting and its bearing on fatigue. J. M. Lessells and W. M. Murray. bibliog il Am Soc T M Proc 41:659-73 '41; Conclusions. Iron Age 148:65-6 Jl 10 '41; Discussion. Am Soc T M Proc 41:674-81 '41

SHOVELING machines

Bullclam shovel does multiple construction jobs. il Eng N 129:sup 108 O 8 '42

Getting the most from shovels and cranes; suggestions from manufacturers include: warnings against counterweights, hints on speeding excavation by use of smaller buckets, and directions for proper methods of shovel bucket filling. il Eng N 129:176-8 Jl 30 '42

Shovel and dragline performance. F. C. Ruhloff. il Civil Eng 12:302-4 Je '42

36 inches of coal mined with ¾- to 2-cu. yd. shovels at Elba. I. A. Given. il diag Coal Age 47:58-60 Mr '42

War maintenance; shovels and draglines, strip mines. il diags Coal Age 47:123-6 O '42

We cut mining costs 50% with an underground shovel; Goshen brick & clay corp. C. C. Russell. il Brick & Clay Rec 99:15-16 N '41

See also

Electric shovels

Excavating machinery

SHOVELS

Ingenious shovel for handling incendiary bombs. il Bus Transportation 21:187 Ap '42

SHOW cards

Merchandise on cards; packaging and display advertising. il Mod Packaging 15:62 Ja '42

Simplified show card writing. C. R. Havighorst. 107p $3 Butterick co, 161 6th av, New York '42

SHOW cases

Minneapolis show case mfg. co. prevents condensation in space between show case windows. M. Figen. il Heat & Ven 39:28 Je '42

SHOW windows

Dolls prove the power of miniature; hosiery window displays. M. C. Tucker. il Mod Packaging 15:74-6+ Ja '42

No rubber for Bauer & Black, but keep fit ads keep old friends; window display program continues. il Sales Management 50:26+ Je 15 '42

Store displays in wartime. H. Korman. il Mod Packaging 15:83-5+ My '42

War's effect on display. F. L. Wertz. il Mod Packaging 16:71-3 S '42

Window links in advertising; window display in relation to other advertising. C. Percy. il Mod Packaging 16:63-6 N '42

See also

Banks and banking—Show windows

Insurance agents—Show windows

Motor bus lines—Show windows

Contests

Constant window contests keep dealers plugging for rust craft. il Sales Management 51:25-6 Jl 1 '42

Display contest wins good-will sales; Gartner & Bender greeting cards. il Ptr Ink 200:47 Ag 7 '42

Lighting

Dimout, visibility unlimited; blue pigmented cellulose acetate material for dimming out lighted show windows. il Mod Plastics 20:60 S '42

New technique in display lighting. J. L. Stair and W. Foulks. il diags plans Illum Eng 37:147-64 Mr '42

Motion displays

Low cost animation puts zip in Devoe & Raynolds window displays. il Sales Management 50:46 My 1 '42

SHOWER baths

Framing the shower door. il Mod Plastics 19:44 Je '42

SHOWER baths—*Continued*
Precast concrete shower bases; Badger concrete co., Oshkosh, Wis. also making concrete manhole fittings and milk cooling tanks. il Rock Prod 45:82-3+ O '42

SHOWROOMS
Showroom requiring display of complete lines of glassware; Antonin Raymond, architect. il plan Arch Forum 75:348-9 N '41
Wholesale show room of Central knitwear mills, inc. il plan Arch Forum 75:371-3 N '41

SHRAPNEL, Henry, 1761-1842
Centenary of Shrapnel. Engineering 153:213 Mr 13 '42

SHREVEPORT, Louisiana

Railroads

Streamline outmoded Union station. il plan Ry Age 113:102-6 Jl 18 '42

SHRIMPS
Quick freezing Texas shrimp. E. Hickman. il Refrig Eng 43:212+ Ap '42

SHRINK fits. See Fits (machinery)

SHRINKAGE of meat. See Meat—Shrinkage

SHRINKAGE of metals
Controlling the effect of contraction and included stresses in welded structures. A. E. Berriman. il diags Welding J 21:373-8 Je '42

Deepfreeze's ace; industrial applications of ultra-low temperatures. Business Week p68+ Ap 11 '42

Distortion and shrinkage problems in ships and other large structures. L. Grover. il diags Welding J 21:665-75, 776-81 O-N '42

Effect of preheating temperature upon shrinkage stresses in welded high-tensile steel plates. R. W. Leutwiler, jr. bibliog il diag Welding J 21:sup198-203 Ap '42

SHRINKAGE of textiles
Some of the whys and hows of shrinkage control. J. D. Chaky. Rayon 22:681-2 N '41

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

Woven textile fabrics; testing and reporting. Textile Col 63:690-2 D '41

See also
Cotton fabrics—Shrinkage
Rayon fabrics—Shrinkage
Sanforizing
Wool, Unshrinkable
Woolen and worsted fabrics—Shrinkage

Testing

Shrinkage testing of woven rayon fabrics. O. F. Marks. Am Dyestuff Rep 31:138-9; Discussion. 140-3 Mr 16 '42

Use of the tension presser for determining shrinkage. il Rayon 22:683-4 N '41

SHRUBS
Ornamental shrubs and woody vines of the Pacific coast. E. Graham and H. E. McMinn. 259p $3 Gillick press, 2057 Center st, Berkeley, Calif. '41

SHUTTLES
How to box your new rayon shuttle. Rayon 23:364 Je '42

Improvements in rayon shuttles. il Rayon 23:525 S '42

Take better care of shuttles. il Textile World 92:130 S '42

SIARESINOLIC acid
Sapogenins; siaresinolic acid. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p540-4 S '42

SIBERIA
See also
Medicine—Siberia

Industries and resources

Siberian resources for Soviet warfare. G. B. Cressey. Science 95:264-6 Mr 13 '42

SICK
See also
Sickness

SICK leave
Salary payments during illness. Management R 31:219-23 Je '42
Sick-leave pay for civil-defense volunteers in Great Britain. Monthly Labor R 53:1208 N '41
Sick leave provisions in union contracts. Management R 31:103-5 Mr '42

SICKNESS
Born that way; a practical solution for the constitutionally inadequate. W. C. Alvarez. Sci Am 167:201-2 N '42
Disabling morbidity among industrial workers, third quarter of 1941. W. M. Gafafer. Pub Health Rep 56:2428-9 D 19 '41
Disabling morbidity among industrial workers, final quarter of 1941. W. M. Gafafer. Pub Health Rep 57:588-9 Ap 17 '42
Disabling morbidity among male and female industrial workers during 1941, and among males during the first quarter of 1942. W. M. Gafafer. Pub Health Rep 57:1344-7 S 4 '42
Disabling morbidity among industrial workers, second quarter of 1942. W. M. Gafafer. Pub Health Rep 57:1620-2 O 23 '42
Disabling sickness among industrial workers, 1941. Monthly Labor R 55:262-3 Ag '42
Disabilities of government employees; an analysis. A. Tish. bibliog Ind Med 11:328-30 Jl '42
Frequency and duration of disabilities causing absence from work among the employees of a public utility, 1938-41; Boston Edison company. W. M. Gafafer. bibliog Pub Health Rep 57:625-7 Ap 24 '42
Frequency and volume of hospital care for specific diseases in relation to all illnesses among 9,000 families, based on nation-wide periodic canvasses, 1928-31. S. D. Collins. Pub Health Rep 57:1399-1428, 1439-60 bibliog(p1459-60) S 18-25 '42
Importance of hospital morbidity data for the community. M. Fraenkel. Am Statis Assn J 37:213-19 Je '42
Investigations at Mellon institute 1941-42; audit of sick absences. W. M. Gafafer; A. Fletcher. Chem & Eng N 20:457 Ap 10 '42
Morbidity and mortality during 1941 and recent preceding years. Pub Health Rep 57:819-33 My 29 '42
Progress report on a study of sick absenteeism in industry, Jan.-June, 1941. W. M. Gafafer. Safety Eng 82:35-6 D '41; Same. Concrete (mill sec) 50:188 Je '42
Studies on the duration of disabling sickness; duration of disability from sickness and nonindustrial injuries among male workers, disabilities lasting one calendar day or longer. W. M. Gafafer and E. S. Frasier. Pub Health Rep 57:1378-84 S 11 '42
Studies on the duration of disabling sickness; duration of disability from sickness and nonindustrial injuries among the male employees of an oil refining company with particular reference to the older worker, 1933-39, inclusive. W. M. Gafafer, R. Sitgreaves and E. S. Frasier. Pub Health Rep 57:112-25 Ja 23 '42

See also
Diseases
Hygiene
Infectious diseases
Insurance, Health
Medical service
Mortality
Public health

SIDE lines
Mirro men selling other lines. Ptr Ink 197:36 N 21 '41
Sideline selling for the war era; McKay plumbing company. il Dom Eng 159:44-5+ Ap '42

SIDEWALKS, Concrete
Important service for the home front; new driveways, aprons, walks and terraces. il diags Am Bld 64:45-6+ Jl '42

SIDEWALKS, Wooden

Seventy years of wooden sidewalks; modern walks of Wolmanized lumber, Brookline, Mass. il Roads & Sts 85:48-9 O '42

SIDING (building)

Manufacturing the famous Porcelok roofing and siding. il Cer Ind 39:37-9 Jl '42

SIERRA NEVADA

Glaciers of comparatively recent origin in Sierra Nevada mountains; abstract. F. E. Matthes. Sci Am 166:196 Ap '42

SIEVES

See also

Screens

Standards

U.S. standard sieve series; table. Chem Ind 49:527 pt 2 (Buyer's guidebook) O '41

SIGHT

Ability to see low contrasts at night. M. Luckiesh and F. K. Moss. il J Aeronautical Sci 9:261-3 My '42

Anatomy of visual efficiency. H. L. Logan. bibliog il Illum Eng 36:1057-83; Discussion. 1083-1108 D '41

Art of seeing. A. Huxley. 273p $2.50 Harper '42

Discrimination of color and form at levels of illumination below conscious awareness. W. E. Vinacke. 53p bibliog(p52-3) pa $1 Archives of psychology, R. S. Woodworth, ed, Columbia univ, New York '42

Field of industrial ophthalmology; report by committee of American medical association. A. C. Snell, A. Culler and H. S. Kuhn. Advanced Management 7:91-4 Ap-Je '42

Inspectors need keen vision; tests of women engaged in inspection of rayon yarn. A. W. Ayers. il Textile World 92:96 O '42

Night vision and day vision; abstract. S. Hecht. Science 95:sup8 My 15 '42; Same. Sci Am 167:25 Jl '42

Papers relating to vision by Selig Hecht. Opt Soc Am J 32:40-1 Ja '42

Quantum relations of vision. S. Hecht. bibliog diag Opt Soc Am J 32:42-9 Ja '42

Relative sensitivities of television pickup tubes, photographic film, and the human eye. A. Rose. bibliog Inst Radio Eng Proc 30:293-300 Je '42

Seeing eyes; standards of visual functions based on the needs of the job. H. S. Kuhn. Nat Safety N 46:34+ S '42

Some effects of binocular vision. F. H. Allen. Science 94:486-7 N 21 '41

Vision and seeing under light from fluorescent lamps. M. Luckiesh and F. K. Moss. bibliog Illum Eng 37:81-8 F '42

Vision may vary from day to day. M. J. Julian. Nat Safety N 46:93 Ag '42

Vitamins for victory; vitamin A for prevention of eye fatigue; Westinghouse electric and manufacturing company. Safety Eng 84:37-8 Ag '42

See also

Blindness
Color sense
Eye
Lighting
Optical illusions
Optics, Physiological
Spectacles
Visibility

SIGMA xi

National lecturers, 1943. Science 96:332-3 O 9 '42

SIGN advertising. See Advertising, Outdoor; Electric signs

SIGNAL lamp. See Light signals

SIGNAL tracer. See Radio instruments

SIGNALS and signalling

See also

Air raid signals
Electric signals
Fire alarms
Light signals
Mine signals
Radio signals
Railroads—Signals

SIGNIFICANT difference (statistics)

Comments on Dr Madow's Note on tests of departure from normality, with some remarks concerning tests of significance. J. Berkson; R. C. Geary. Am Statis Assn J 36:539-43 D '41

Tests of significance considered as evidence. J. Berkson. Am Statis Assn J 37:325-35 S '42

Use of tests of significance in an agricultural experiment station. G. W. Snedecor. Am Statis Assn J 37:383-6 S '42

SIGNS

Luminous signs. Can Min J 63:89 F '42

Molded sign alphabet. il Mod Plastics 19:48 Je '42

Plastics competition award to Lumelite corp.; lawn-stake sign. il Mod Plastics 19:80-1 N '41

Signs sprayed on step treadles. il Transit J 86:251 Jl '42

See also

Electric signs
Traffic signs

SIGNS, Electric. See Electric signs

SILAGE

Analysis

Determination of sugar in plant material; accurate and rapid methods for silage and root crops. D. J. Hiscox. Can Chem & Process Ind 26:496, 498+ Ag '42

Modification of Moon's method for the estimation of carotene in silage. W. Bolton and R. H. Common. Soc Chem Ind J 61: 50-1 Mr '42

SILANE. See Silicane

SILESIA

Fabrics for military purposes; twill and silesia uniform linings used by the army, navy and marine corps. il Textile World 92:65 Jl '42

SILICA

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Effect of container on soluble silica content of water samples. C. A. Noll and J. J. Maguire. bibliog Ind & Eng Chem Anal ed 14:569-71 Jl 15 '42

Electric furnace study of the MgO-SiO_2 system. R. R. Ralston and G. T. Faust. bibliog il diag Am Cer Soc J 25:294-310 Jl 1 '42

Equilibrium studies in the system FeO—Al_2O_3—SiO_2. R. B. Snow and W. J. McCaughey. bibliog il diags Am Cer Soc J 25:151-60 Mr 15 '42

Heat of coagulation of silica and its bearing on the structure of silica gels. A. R. Tourky. bibliog Chem & Ind 61:254-5 Je 6 '42

Investigations at Mellon institute 1941-42; garspar, garcolite, and gartex. Chem & Eng N 20:448 Ap 10 '42

Liquid glass and solid solutions. C. H. Jeglum. il J Chem Educ 19:239-43 My '42

Marketing silica (quartz, tripoli, diatomite, etc.); types and their uses; directory of buyers. N. C. Jensen. bibliog(p20-1) U S Bur Mines Information Circ 7202:1-39 '42

Modified calorimeter for high temperatures; the heat content of silica, wollastonite and thorium dioxide above 25°. J. C. Southard. bibliog diag Am Chem Soc J 63:3142-6 N '41

Neosyl MH, a new white reenforcing agent; abstract. J. R. Scott. India Rubber W 105: 506-7 F '42

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14: 622-32 Ag 15 '42

Power for mining silica. flow diag il diags plan Power Pl Eng 46:68-72 Ap '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Settling and thickening of aqueous suspensions. K. Kammermeyer. bibliog il Ind & Eng Chem 33:1484-91 D '41

SILICA—*Continued*

Sorption of water vapor by vermiculite and its silica; equilibrium measurements. L. A. Spitze and L. A. Hansen. bibliog Ind & Eng Chem 34:506-8 Ap '42

See also

Flint
Glass
Quartz
Sand
Silica gel
Tridymite
Water purification—Silica removal

Analysis

Infrared as an analytical tool: dehydration of silicic acid derived from feldspars. E. W. Koenig. bibliog Am Cer Soc Bul 20:447-50 D '41

SILICA, Fused

Glass, glass-lined and fused silica; physical properties, makers. Chem & Met Eng 49: 103 S '42

Non-metallic chemical plant; vitreosil. A. E. Williams. il diags Engineer 174:25-7 Jl 10 '42

SILICA aerogel. See Silica gel

SILICA brick

Acid open hearth refractories. J. H. Chesters. il Iron Age 149:46-51 My 28; 64-70 bibliog(p70) Je 4 '42

Co-operative investigation of the factors influencing the durability of roofs of basic open-hearth furnaces. T. Swinden and others. diags Iron & Steel Inst J 144:203-62, pl 21-8 no 2 '41; Excerpts. Blast F & Steel Pl 30:172, 174-5, 276-8 Ja-F '42; Discussion. Iron & Steel Inst J 144:263-71 no 2 '41

Design, construction and operation of open hearth with basic roof. L. B. Lindemuth. diags Iron Age 148:44-9 N 13 '41

Microscopic examination of silica refractories. P. F. F. Clephane. diags Gas J (Lond) 239:282, 287-8 Ag 19 '42

Testing

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; examination of samples taken from the roof at the end of the campaign. J. H. Chesters and others. diag Iron & Steel Inst J 144:237-47 no 2 '41

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; furnace campaign. A. E. Dodd and others. bibliog diags Iron & Steel Inst J 144:218-37, pl 21-3 no 2 '41

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; manufacture of the roof bricks and their properties before use. T. R. Lynam, J. H. Chesters and T. W. Howie. Iron & Steel Inst J 144:206-12 no 2 '41; Same. Blast F & Steel Pl 30: 276-8 F '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; results of X-ray studies of the raw material and of used silica brick. A. H. Jay. Iron & Steel Inst J 144:247-50, pl 24-5 no 2 '41

SILICA gel

Calculation of the surface area of microporous solids from measurements of heat conductivity. S. S. Kistler. bibliog diags J Phys Chem 46:19-31 Ja '42

Dehydrating liquids and gases for granular adsorbents; Florite, alumina and silica gel. R. G. Capell and R. C. Amero. flow sheets Oil & Gas J 41:37-9 Je 18 '42

Elimination of sorption-desorption hysteresis in hydrous oxide systems. H. B. Weiser, W. O. Milligan and J. Holmes. bibliog J Phys Chem 46:586-96 My '42

Heat of coagulation of silica and its bearing on the structure of silica gels. A. R. Tourky. bibliog Chem & Ind 61:254-5 Je 6 '42

Manufacture of silica aerogel; description of process and heat transfer problems. J. F. White. bibliog diag Am Inst Chem Eng Trans 38:435-44 Je '42; Same. Chem Ind 51:66-9 Jl '42; Excerpt. Chem & Met Eng 49:204-6 S '42; Abstract. Chem & Eng N 20:663 My 25 '42; Discussion. Am Inst Chem Eng Trans 38:445-6 Je '42

Minneapolis show case mfg. co. prevents condensation in space between show case windows. M. Figen. il Heat & Ven 39:28 Je '42

Platinized silica gel as a catalyst in gas analysis. K. A. Kobe. bibliog Am Gas Assn Proc 1941:453-4

Van der Waals sorption of chlorine by silica gel at low temperatures. L. H. Reyerson and C. Bemmels. J Phys Chem 46:31-5 Ja '42

Van der Waals sorption of gaseous hydrogen chloride, hydrogen bromide, and hydrogen iodide by silica gel. L. H. Reyerson and C. Bemmels. J Phys Chem 46:35-42 Ja '42

Vapor-phase partial oxidation of ethyl alcohol; variables influencing catalyst behavior. L. R. Michels and D. B. Keyes. bibliog diags Ind & Eng Chem 34:138-46 F '42

SILICA in the body

Absorption, accumulation and excretion of ingested silica. J. L. Webb, R. M. Selle and C. H. Thienes. bibliog J Ind Hygiene 24:43-5 Mr '42

SILICANE

Vibration-rotation spectrum of SiH_4. C. H. Tindal, J. W. Straley and H. H. Nielsen. bibliog Phys R 62:151-60 Ag 1 '42

SILICATES

Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Soluble silicates [in verse]. J. G. Vail. News Ed 19:1426-7 D 10 '41

System $CaO\text{-}FeO\text{-}Al_2O_3\text{-}SiO_2$; results of quenching experiments on five joins. J. F. Schairer. bibliog Am Cer Soc J 25:241-74 Je 1 '42

See also

Akermanite
Calcium silicates
Cordierite
Fuller's earth
Glass
Kaolin
Mica
Rocks
Slag
Sodium silicates
Spodumene
Vermiculite
Wollastonite
Zeolites

Analysis

Determination of germanium in silicate rocks. A. G. Hybbinette and E. B. Sandell. Ind & Eng Chem Anal ed 14:715-16 S 15 '42

Direct determination of potassium in silicate rock. H. H. Willard, L. M. Liggett and H. Diehl. diag Ind & Eng Chem Anal ed 14: 234-5 Mr 15 '42

SILICIC acid

Infrared as an analytical tool: dehydration of silicic acid derived from feldspars. E. W. Koenig. bibliog Am Cer Soc Bul 20:447-50 D '41

SILICOFLUORIC acid. See Fluosilicic acid

SILICOMOLYBDIC acid

Ceric sulfate in the determination of iron using the molybdisilicic (silicomolybdic) acid method. A. C. Titus and C. W. Sill. Ind & Eng Chem Anal ed 14:121 F 15 '42

SILICON

Can silicon take a six-fold coordination in glass? K. Sun and A. Silverman. bibliog Am Cer Soc J 25:101-3 F 15 '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Secondary scattering of electrons in silicon. R. P. Johnson and W. R. Grams. Phys R 61:671 My 1 '42

Self-consistent field, with exchange, for Si IV and Si V. W. Hartree, D. R. Hartree and M. F. Manning. bibliog Phys R 60:857-65 D 15 '41

SILICON—*Continued*

Silicon held a desirable alloy. Iron Age 150:58 N 5 '42

Analysis

Molybdenum blue reaction; a spectrophotometric study. J. T. Woods and M. G. Mellon. bibliog(76 references) Ind & Eng Chem Anal ed 13:760-4 N 15 '41

See also
Silica—Analysis
Silicates—Analysis

SILICON alloys

See also
Silicon steel

SILICON bromide

Electron diffraction investigation of the molecular structures of silicon tetrabromide, tribromosilane, and dibromodifluorosilane. R. Spitzer, W. J. Howell, jr. and V. Schomaker. bibliog Am Chem Soc J 64:62-7 Ja '42

SILICON bronze

Casting silicon bronze alloys; report of non-ferrous sub-committee of the Institute of British foundrymen. Foundry 70:87+ S '42; Same. Steel 111:76, 105-8 S 21 '42

Navy Tombasil; a new silicon bronze casting alloy. H. L. Edsall. il Iron Age 150:54-9 Jl 30 '42

New bronze alloy; Ajax navy Tombasil. Electrician 128:582 Je 12 '42

Producing silicon bronze castings. J. E. Crown. il diags Foundry 70:64-5+ Ag '42

Silicon bronze alloys differ; abstract. W. O. Alexander. Foundry 70:145-6 O '42

Silicon bronzes for sand castings. M. G. Corson. il Iron Age 149:46-9 Ja 29 '42

Silicon bronzes; foundry practice, physical properties and applications. E. G. Jennings and H. J. Roast. Iron Age 150:54-5 Jl 16 '42

SILICON carbide

Carborundum co. previews exhibit in museum. il News Ed 19:1398 D 10 '41

Carborundum story is told in exhibit at Museum of science and industry, Chicago. H. H. Slawson. Steel 111:66 Ag 24 '42

Grinding wheels; composition of abrasives from electric furnaces. A. G. Arend. il Elec R (Lond) 131:391-2 S 25 '42

Increasing capacity in water gas sets with thin-walled generator lining. R. J. Horn. diags Am Gas Assn Mo 24:216-17 Je '42; Same. Gas Age 89:17-18 Je 18 '42

Jubilee of an abrasive; discovery of silicon carbide. Chem Age (Lond) 45:226 O 25 '41

Methods of increasing water-gas or coal-gas capacities; producing supplementary oil gas, and using carborundum retort bottoms. R. F. Gibson. Gas Age 89:31-2 Mr 12 '42

SILICON compounds

Organo silicon plastics. Can Chem & Process Ind 26:466 Ag '42

See also
Silica
Silicane
Silicates

SILICON dioxide. See Silica

SILICON manganese steel

Spring steels. H. Carlson. Product Eng 13:140-1 Mr '42

SILICON monoxide. See Silicon oxides

SILICON oxides

Silicon monoxide may be important in steel making. C. A. Zapffe and C. E. Sims. il Iron Age 149:29-31 Ja 22; 34-9 Ja 29 '42

See also
Silica

SILICON steel

Carbon steel placed on same basis as silicon steel. Roads & Bridges 80:34+ Ag '42

Harmonic distortion in audio-frequency transformers; silicon steel as core material. N. Partridge. diags Wireless Eng 19:394-400, 451-6 S-O '42

Hysteresis torque in elliptically polarized fields. F. J. Beck, jr. and J. G. Clarke. diags J Ap Phys 12:860-6 D '41

Nickel saving in electronic equipment by lining up crystals; substitution of Hipersil steel. il Sci Am 167:109 S '42

SILICOSIS

Anthraco-silicosis among bituminous coal miners. R. H. Flinn, H. E. Seifert and H. P. Brinton. bibliog Ind Med 11:470-3 O '42

Dust problems in industry as related to the coroner. C. O. Sappington. Ind Med 11:127-30 Mr '42

Exposure to silicosis hazard doesn't necessarily mean liability, Illinois court finds. Nat Underw 46:24-5 Je 18 '42

Foundry dust. il Safety Eng 82:41-2 D '41; 83:40 Ja; 40+ F '42

Health and working environment of nonferrous metal mine workers. W. C. Dreessen and others. (Pub. health bul. 277) il diags map 110p bibliog(p101-5) U.S. Public health service, Washington; pa 20c Supt. of doc. '42

Health of workers in dusty trades; restudy of a group of granite workers. A. E. Russell. (Pub. health bul. 269) 71p U.S. Public health service, Washington; pa 15c Supt. of doc. '41

Is acute lobar pneumonia a complication of silicosis? D. C. Pierpont. J Ind Hygiene 24:238-9 O '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Significance of chemical examination in the diagnosis of silicosis. L. U. Gardner and A. J. Redlin. J Ind Hygiene 24:125-30 Je '42

Silicosis among metal mine workers. Pub Health Rep 57:798-9 My 22 '42

Soft coal miners, health and working environment. R. H. Flinn and others. (Pub. health bul. 270) 118p U.S. Public health service, Washington; pa 25c Supt. of doc. '41; Review. Pub Health Rep 56:2482-4 D 26 '41

Two hundred cases of silicosis; the initial forms; abstract. M. Conrozier and J. Magnin. J Ind Hygiene 24:sup14 Ja '42

X-ray atlas of silicosis. A. J. Amor. 206p bibliog(p205-6) $8 Williams & Wilkins '41

SILK

American sericulture. Textile World 92:83 Ag '42

American silk, 1838. Textile Col 64:222 My '42

Silk's hosiery role ended Jan. 1; amount of rayon needed to equal pound of silk. E. Constantine. Textile World 92:69 Ja '42

See also
Bleaching—Silk
Dyes and dyeing—Silk
Silk fabrics
Silk trade
Silk weaving

Bleaching

See Bleaching—Silk

SILK, Artificial. See Rayon; Textile fibers, Synthetic

SILK, Substitutes for

Silk substitutes. Textile Col 63:682 D '41

SILK fabrics

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

SILK finishing

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

SILK manufacture

See also
Rayon manufacture
Silk finishing
Silk weaving

SILK screen printing

Rotary machine for screen printing. il Textile World 91:129 N '41

Screen printing. D. Heritch. Textile Col 64:40-2 Ja '42

SILK screen printing—*Continued*

Screen printing of rayons. il Rayon 23:353-4, 400-1, 547-8, 666-7 Je-Jl, S, N '42 (to be cont)

Silk screen color printing. H. Sternberg. 78p $2.50 McGraw-Hill '42

Vinyon fabric for use in screen printing. Textile World 92:108 F '42

SILK trade

Business behavior, 1919-1922. W. F. Payne. bibliog J Business 15:sup121-32 Jl-O '42

Effect of the silk freezing order on women's full fashioned and seamless production. Rayon 23:223 Ap '42

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

WPB controls raw silk. Comm & Fin Chr 155:774 F 19 '42

Brazil

Sericulture in Brazil. For Comm W 8:29 Jl 25 '42

SILK waste

Silk waste regulations. Rayon 23:307-8 My '42

SILK weaving

Hints to silk weavers; preventing defects which cause rejection of parachute fabrics. Textile World 92:84 Je '42

Loomfixers' manual; rayon and silk section (cont). H. E. Wenrich. diags Textile World 92:99 Ja; 108 Mr; 114-15 My; 93 Je; 82 Jl; 103 Ag; 98 O '42

Parachute cloth; weaving information. Textile World 92:101 Ag '42

SILK weighting

Silk weighting. Textile Col 64:353-5 Jl '42

SILLENCE, Edith H. d 1942

Sketch. por East Underw 43:6 O 30 '42

SILOS, Concrete

Observations on the durability of dry tamped silo staves. C. A. Hughes and K. A. Andersen. bibliog il Am Concrete Inst J 13: 237-52 Ja '42; Discussion. 13:sup252^1-252^9 N '42

SILT

Distribution graphs of suspended-matter concentration. J. W. Johnson. bibliog Am Soc C E Proc 68:1383-98 O '42

Silt problems. W. E. Corfitzen. il Civil Eng 12:616-19 N '42

Soil conservation helps to protect water supply; plan for preventing silting of reservoirs. A. Reichstein. map Pub Works 72: 33-5 D '41

Underflow studies at Lake Issaqueena. J. W. Johnson. il Civil Eng 12:513-16 S '42

SILURIAN period. See Geology, Stratigraphic —Silurian

SILVER

Effect of silver ion coördination upon the Raman spectra of some unsaturated compounds. H. J. Taufen, M. J. Murray and F. F. Cleveland. bibliog Am Chem Soc J 63:3500-3 D '41

Electrolytic polishing of silver. L. I. Gilbertson and O. M. Fortner. il Electrochem Soc Trans 81 (preprint 5):41-50 Ap '42

Exchange of radioactive silver with silver chloride suspensions. A. Langer. bibliog diag J Chem Phys 10:321-7 Je '42

Far ultraviolet reflectivities of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42

Molal electrode potential of the silver-silver chloride electrode in ethyl alcohol-water mixtures. A. Patterson and W. A. Felsing. bibliog Am Chem Soc J 64:1478-80 Je '42

Molecular weight of potassium bromide and the atomic weights of silver, bromine and potassium. R. K. McAlpine and E. J. Bird. bibliog diag Am Chem Soc J 63:2960-5 N '41

Oxidation processes; the effect of silver on the autoxidation of some photographic developing agents. A. Weissberger and D. S. Thomas, jr. bibliog Am Chem Soc J 64: 1561-7 Jl '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64: 1641-3 Jl '42

Reproducible contact angles on reproducible metal surfaces; contact angles of water against silver and gold. F. E. Bartell and P. H. Cardwell. bibliog il diags Am Chem Soc J 64:494-7 Mr '42

Reproducible contact angles on reproducible metal surfaces; interfacial contact angles between water and organic liquids on surfaces of silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1530-4 Jl '42

Self-sterilizing surfaces; compounding of silver with resins. A. Goetz, R. Tracy and S. Goetz. Science 95:537-8 My 22 '42

Silver can be readily cast. Iron Age 150:63 Jl 9 '42

Silver in coinage and photography. Min & Met 23:387 Jl '42

Silver prices? negotiations looking toward 45c price for white metal from good neighbor nations. Business Week p69-70 Ag 29 '42

Standard potential of the silver-silver bromide electrode in anhydrous methanol at 25°. E. W. Kanning and A. W. Campbell. bibliog Am Chem Soc J 64:517-19 Mr '42

Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

Uses of silver in wartime; statistics, properties, uses. R. H. Leach and J. L. Christie. Min & Met 23:456-8 S '42

See also

Silver as money

Analysis

Chemistry of group 1: silver, mercury, lead; summary of results of recent research. A. B. Garrett, M. V. Noble and S. Miller. bibliog J Chem Educ 19:485-9 O '42

Colorimetric determination of silver with 2-thio-5-keto-4-carbethoxy-1, 3-dihydropyrimidine. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:148-9 F 15 '42

Modified electrometric determination of metallic silver by a dead-stop end-point procedure. R. H. Lambert and R. D. Walker. Ind & Eng Chem Anal ed 13:846-8 N 15 '41

2-Thio-5-keto-4-carbethoxy-1,3-dihydropyrimidine and related compounds. J. H. Yoe and G. R. Boyd, jr. bibliog Am Chem Soc J 64:1511-13 Jl '42

Industrial applications

Assigns free silver to war work. Comm & Fin Chr 156:1186 O 1 '42

Best joint designs for silver-alloy brazing. F. T. Van Syckel. il diags Steel 109:97, 100+ D 8 '41

Breaker and switch contacts resurfaced with silver alloy. L. M. Limpus. il Elec W 118: 1271 O 17 '42

Cable-repair method; silver-alloy brazing. il Gen Elec R 45:248 Ap '42

Contacts, joints, silver makes them. R. H. Leach. Metal Prog 42:671-2 O '42

Divert free silver to war production. Comm & Fin Chr 156:904 S 10 '42

Improving copper with silver gains attention. Steel 111:86 Jl 13 '42

Industrial uses for silver; American silver producers' research project. Mech Eng 64: 226-7 Mr '42

Industrial uses of silver broadening rapidly. A. M. Setapen. il Metals & Alloys 16:46-51 Jl '42

Is silver a public utility? H. M. Bratter. Pub Util 29:549-53 Ap 23 '42

Lead-silver solders save tin. Mach 48:119 My '42

Low-tin solders; containing silver and bismuth. S. Turkus and A. A. Smith, jr. il Metals & Alloys 15:412-13 Mr '42

New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42

SILVER—Industrial applications—*Continued*

New possibilities for silver coatings. Metal Finishing 40:466 S '42

New uses for silver may solve old problem. C. Vogel. Barron's 22:5 F 16 '42

Putting silver to work. Comp Air M 47:6693 Mr '42

Recent work on silver. F. T. Sisco. il Min & Met 23:220 Ap '42

Relay contacts; new material for heavy duty; powder metallurgy product silver-nickel Elkonite. H. R. Brooker. il Elec R (Lond) 130:651-2 My 22 '42

Release silver stock as copper substitute. Comm & Fin Chr 155:1560 Ap 16 '42

Saving tungsten and copper by using silver. Electronics 15:104 Mr '42

Silver as a substitute for copper in electric wiring; abstract. R. E. McConnell. Science 94:sup10+ N 7 '41

Silver as a substitute for scarce metals. Iron Age 149:48 F 19 '42

Silver busbars for war plants probable. Elec W News ed 117:1261 Ap 11 '42

Silver coated steel. Product Eng 13:107-8 F '42

Silver electrical contacts excellent. Iron Age 150:60 Jl 16 '42

Silver expands industrial applications to include much ordnance work. H. Chase. il Steel 110:86+ Mr 2 '42

Silver for bearings. A. Bregman. il diags Iron Age 150:65-7 Ag 13; 41-5 Ag 20 '42

Silver for war; WPB begins to allocate all imported metal to essential uses. Business Week p80-2 Ag 8 '42

Silver linings. A. Bregman. il Mod Packaging 15:60, 62, 64+ Ag '42

Silver linings for chemical containers. Chem Ind 51:564 O '42; Same abr. Sci Am 167:207 N '42

Silver offers resistance to many chemicals. A. Butts and J. Giacobbe. il Chem & Met Eng 48:76-9 D '41

Silver shortage, metal now being rationed. Comm & Fin Chr 155:1860 My 14 '42

Silver to replace nickel and chrome plate. A. Bregman. il Iron Age 148:59-62 N 13; 52-5 N 20 '41

Silver used in graphite brushes. Elec W 118:308 Jl 25 '42

Silver users to seek release of metal. Comm & Fin Chr 156:994 S 17 '42

Silver uses being increased in electrical equipment. H. A. Winne. Sci Am 167:155-6 O '42

Silver's importance; applications and possibilities in automotive and aviation fields. W. C. Hirsch. il Automotive & Aviation Ind 86:17-19, 61 My 1 '42

Silver's new job. Business Week p27-30 Ap 11 '42

Tin conservation; silver in lead-base babbitts. H. W. Gillett and R. W. Dayton. Metals & Alloys 15:584-7 Ap '42; Abstract. Power 86:564-5 Ag '42

Treasury silver for aluminum war plants. T. D. Jolly. Comm & Fin Chr 155:221-8 Je 11 '42

Twelve men against the nation; no silver bullets for our guns. S. F. Porter. Barron's 22:3 O 5 '42

SILVER acetate

Electrolytic study of linear diffusion of silver salts. H. A. Laitinen. bibliog Electrochem Soc Trans 82 (preprint 9):101-8 O '42

Solubility of silver acetate in aqueous solutions of silver nitrate and of silver perchlorate; complex ions formed from silver and acetate ions. F. H. MacDougall. J Phys Chem 46:738-47 Je '42

Solubility of silver acetate in aqueous solutions of some other acetates; the formation of diacetato-argentate ion. F. H. MacDougall and M. Allen. bibliog J Phys Chem 46:730-7 Je '42

SILVER alloys

Gold and silver in wartime. J. S. Shell. il Metals & Alloys 15:236-40 F '42

Industrial uses of silver broadening rapidly. A. M. Setapen. il Metals & Alloys 16:46-51 Jl '42

Internal oxidation in dilute alloys of silver and of some white metals; abstract. F. N. Rhines and A. H. Grobe. Iron Age 149:59 F 19 '42

Relay contacts; new material for heavy duty; powder metallurgy product silver-nickel Elkonite. H. R. Brooker. il Elec R (Lond) 130:651-2 My 22 '42

Silver additions to copper. Iron Age 150:67 Jl 2 '42; Same abr. Steel 111:86 Jl 13 '42

Silver alloy brazed on copper castings. Elec W 117:1032+ Mr 21 '42; Same. Gen Elec R 45:302 My '42

Silver alloy contacts for electrical equipment. Mach 48:155 Ja '42

Silver brazing alloys and procedures. D. Basch. Iron Age 149:62-3 Je 4 '42; Abstract. Metals & Alloys 16:320+ Ag '42

Silver brazing alloys and solders. H. Chase. Product Eng 13:283-4 My '42

Silver's importance; applications and possibilities in automotive and aviation fields. W. C. Hirsch. il Automotive & Aviation Ind 86:17-19, 61 My 1 '42

Uses of silver in wartime; statistics, properties, uses. R. H. Leach and J. L. Christie. Min & Met 23:456-8 S '42

SILVER arsenate

Determination of parameters in potassium dihydrogen arsenate and silver arsenate. L. Helmholz and R. Levine. Am Chem Soc J 64:354-8 F '42

SILVER as money

See also

Dollar

United States

Morgenthau would kill Silver act. House rejects proposal. Comm & Fin Chr 155:765 F 19 '42

Silver issue reaches depths of indecency. W. E. Spahr. Bankers M 145:161-3 Ag '42

Too much silver; Morgenthau would end purchase program. Business Week p22+ My 2 '42

Treasury not seeking Silver acts repeal. Comm & Fin Chr 155:1783 My 7 '42

Urges repeal of silver purchase legislation. Comm & Fin Chr 155:1448 Ap 9 '42

SILVER bromide

Darkening of materials by light. F. Seitz. diag J Ap Phys 13:639-43 O '42

Photographic reciprocity-law failure and the ionic conductivity of the silver halides. J. H. Webb. bibliog Opt Soc Am J 32:299-303 My '42

Standard potential of the silver-silver bromide electrode in anhydrous methanol at 25°. E. W. Kanning and A. W. Campbell. bibliog Am Chem Soc J 64:517-19 Mr '42

Uniform representation of the characteristic curves of pure silver bromide emulsions, unsensitized and sensitized. L. Silberstein. bibliog Opt Soc Am J 32:474-85 Ag '42

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

SILVER chloride

Exchange of radioactive silver with silver chloride suspensions. A. Langer. bibliog diag J Chem Phys 10:321-7 Je '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:61 Mr 23 '42

Molal electrode potential of the silver-silver chloride electrode in ethyl alcohol-water mixtures. A. Patterson and W. A. Felsing. bibliog Am Chem Soc J 64:1478-80 Je '42

Preparation of silver chloride films. P. Fugassi and D. S. McKinney. il R Sci Instr 13:335-7 Ag '42

SILVER chromate

New procedure for detecting acidity; silver chromate solutions in ammonia and ethylenediamine; behavior toward silica, anhydrides, etc. F. Feigl and P. E. Barbosa. Ind & Eng Chem Anal ed 14:519-21 Je 15 '42; Abstract. Chem Age (Lond) 47:131 Ag 8 '42

SILVER chromate—*Continued*
Rate of nucleation of silver chromate in supersaturated solutions. A. Van Hook and J. C. Ahlborn. bibliog J Phys Chem 46:395-9 Mr '42

SILVER compounds
Effect of catalysis upon the oxidation products of hydroxylamine. T. H. James. bibliog Am Chem Soc J 64:731-4 Ap '42
N^1-silver derivatives of sulfanilamide and some related compounds. C. E. Braun and J. L. Towle. Am Chem Soc J 63:3523 D '41
Red silver glasses. E. Forst, jr. and N. J. Kreidl. bibliog Am Cer Soc J 25:278-80 Je 1 '42

SILVER cyanide
Infra-red absorption of silver cyanide. W. D. Stallcup and D. Williams. bibliog J Chem Phys 10:199-200 Ap '42

SILVER halides
Fixing process. W. T. Hanson, jr. Am Phot 36:22-4 Mr '42
Reduction of silver halides and the mechanism of photographic development. T. H. James and G. Kornfeld. il Chem R 30:1-32 bibliog(153 references, p29-32) F '42
See also
Photographic emulsions
Silver bromide
Silver chloride
Silver iodide

SILVER industry and trade
Silver, a new war baby. Min & Met 23:453-4 S '42
Silver skirmish. Business Week p122 S 12 '42
Uses of silver in wartime; statistics, properties, uses. R. H. Leach and J. L. Christie. Min & Met 23:456-8 S '42
See also
Silver as money

Statistics

Silver consumption in U.S. and Canada rises; Handy & Harman annual review. Comm & Fin Chr 155:570 F 5 '42
Silver, 1941. D. H. Leavens. Eng & Min J 143:55-6 F '42
U.S. production of gold and silver in 1941; tabulation. Eng & Min J 143:101 F '42

United States

Civilian silver use restricted by WPB. Comm & Fin Chr 156:453 Ag 6 '42
Silver shortage, metal now being rationed. Comm & Fin Chr 155:1860 My 14 '42
Twelve men against the nation; no silver bullets for our guns. S. F. Porter. Barron's 22:3 O 5 '42

SILVER ink
Silver ink on offset press. J. Stark. Inland Ptr 108:66-7 F '42

SILVER iodide
Iodine reaction and a mercury reaction of photographic importance. A. Steigmann. Soc Chem Ind J 61:82-4 My '42

SILVER metallurgy
Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42
Progress reports, Metallurgical; silver-recovery studies; some factors affecting flotation of the silver-bearing minerals tennantite and enargite. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3661:1-23 '42
See also
Cyanide process

SILVER mines and mining

Bolivia

Oruro silver-tin district. D. F. Campbell. bibliog diags maps Econ Geol 37:87-115 Mr '42

Idaho

Control of ore by rock structure in a Coeur d'Alene mine. H. E. McKinstry and R. H. Svendsen. diags maps Econ Geol 37:215-30 My '42

Ontario

Silver islet; Lake Superior. T. A. Rickard. il Can Min J 63:565-9 S '42

Utah

Study of the geology and ore deposits of the Ashbrook silver mining district. V. E. Peterson. bibliog il diags maps Econ Geol 37:466-502 S '42

SILVER nitrate
Electrolytic study of linear diffusion of silver salts. H. A. Laitinen. bibliog Electrochem Soc Trans 82 (preprint 9):101-8 O '42
Solubility of silver acetate in aqueous solutions of silver nitrate and of silver perchlorate; complex ions formed from silver and acetate ions. F. H. MacDougall. J Phys Chem 46:738-47 Je '42
System silver nitrate—dioxane—water at 25°. J. A. Skarulis and J. E. Ricci. Am Chem Soc J 63:3429-31 D '41
Titration of soluble sulphides. G. Spencer. Soc Chem Ind J 61:132 Ag '42

SILVER ores
Progress reports, Metallurgical division; ore-testing studies; precious-metal ores. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3629:1-155 '42
Study of the geology and ore deposits of the Ashbrook silver mining district, Utah. V. E. Peterson. bibliog il diags maps Econ Geol 37:466-502 S '42

SILVER oxide
Industrial uses of chemicals. Oil Paint & Drug Rep 141:51 Ap 20 '42

SILVER perchlorate
Solubility of silver acetate in aqueous solutions of silver nitrate and of silver perchlorate; complex ions formed from silver and acetate ions. F. H. MacDougall. J Phys Chem 46:738-47 Je '42

SILVER plating
Adherence of thick silver plate on steel. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 20):223-30 O '42
Electrodeposition of silver from thiosulphate solutions. R. Weiner. Metal Finishing 40:74-5+ F '42
Indium, unrestricted metal with many uses; silver-indium plating offers advantages in present emergency. M. T. Ludwick. il Steel 111:80-1+ N 9 '42
Lead and tin undercoats for silver plating. A. Bregman. il Iron Age 149:47-52 Mr 5 '42
New substitute finish; vitreous silver finish; abstract. H. J. Kroesche. Metals & Alloys 16:778 O '42
Silver coated steel. Product Eng 13:107-8 F '42
Silver for cars; Studebaker has process for silver plating its bright trim. Business Week p60 Mr 28 '42
Silver linings. A. Bregman. il Mod Packaging 15:60, 62, 64+ Ag '42
Silver linings for chemical containers. Chem Ind 51:564 O '42; Same abr. Sci Am 167:207 N '42
Silver plating. N. E. Promisel and D. Wood. bibliog Electrochem Soc Trans 80 (preprint 35):473-98 O '41; Same. Metal Finishing 40:181-91 Ap '42
Silver plating as a substitute coating in the present emergency. C. B. F. Young. bibliog Steel 110:94, 107-8 Ap 20; 91, 107-9 My 4 '42; Abstract. Metals & Alloys 16:310+ Ag '42
Silver plating boosts switch capacity. il Elec W 117:1831 My 30 '42
Silver plating steel over a phosphate coating. P. J. LoPresti. il Metal Finishing 40:533-6 O '42
Silver plating technique. A. Bregman. il Iron Age 149:48-51+ Ja 8; 42-7 Ja 15 '42
Silver to replace nickel and chrome plate. A. Bregman. il Iron Age 148:59-62 N 13; 52-5 N 20 '41
Structure of brush-plated silver. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 21):231-5 O '42
See also
Silvering

SILVER polish

Beauty clay for silverware; Wright's silver cream. il Mod Packaging 15:79-81 D '41

Silver and aluminum polishes. C. T. Small. il Chem Ind 49:648-50 N '41

SILVER solder

Brazing practice in the electrical industry. il diags Elec R (Lond) 131:513-16 O 23 '42

Contacts; use of solder-flushed contacts. diags Gen Elec R 45:363 Je '42

Hard soldering cold-worked copper; Tempo-brazing. il diags Steel 110:100+ Je 8 '42

Lithium-bearing silver solder. F. R. Hensel, E. I. Larsen and E. F. Swazy. diags Metals & Alloys 15:962-5 Je '42

Silver brazing alloys and solders. H. Chase. Product Eng 13:283-4 My '42

SILVER sulfate

Electrolytic study of linear diffusion of silver salts. H. A. Laitinen. bibliog Electrochem Soc Trans 82 (preprint 9):101-8 O '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:58 Je 8 '42

SILVER sulfide

Industrial uses of chemicals. Oil Paint & Drug Rep 141:57 Ap 13 '42

SILVER thiocyanate

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

SILVERING

Apply silver coatings by vapor condensation. Steel 110:95 Je 22 '42; Metal Finishing 40: 408 Ag '42

Metal coatings on non-conducting materials; with complete details for silvering methacrylate resins. S. Wein. il Metal Finishing 39:666-72 D '41

New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42; Excerpts. Paper Ind 24:640+ S '42

Silver plating of optical glassware; triethanolamine as a reducing agent. R. D. Barnard. Ind & Eng Chem 34:637-8 My '42

SILVERMAN, Alexander, 1881-

Alexander Silverman; with list of publications. por(cover) Am Cer Soc Bul 20:454-7 D '41

SILVERSMITHING

Art of the silversmith in Mexico, 1519-1936. L. L. Anderson. 2v bibliog(v 1, p435-51) $30 Oxford '41

South Carolina silversmiths, 1690-1860. E. M. Burton. 311p bibliog(p291-302) bds $3.50; pa $2.50 Charleston museum, Charleston, S.C. '42

SILVERSMITHS

South Carolina silversmiths, 1690-1860. E. M. Burton. 311p bibliog(p291-302) $3.50; pa $2.50 Charleston museum, Charleston, S.C. '42

SILVERWARE

All-America package competition; award to International silver co.; tarnish-preventing plastic tray for silverware. il Mod Packaging 15:190-1+ Ap '42

See also
Silver plating

Rating

Plated silverware. Consumers' Research Bul 9:11-13 Je '42

SIMILES

Dictionary of similes. F. J. Wilstach. 2d ed 578p $1 Garden City pub. co, Garden City, N.Y. '42

SIMMONS company

War prospects of Simmons co. H. Lawrence. Barron's 22:5 Mr 23 '42

SIMON, Louis Adolph, 1867-

$850 million architect. por Arch Forum 75:sup2 D '41

Louis Simon retires as supervising architect of the Public buildings administration. por Arch Rec 91:12+ Ja '42

SIMONDS, Frederic William, 1853-1941

Memorial. A. Deussen. por (pl) Geol Soc Proc 1941:193-200 bibliog(p197-200) Mr '42

SIMPLIFICATION in industry

How we doubled production; Monarch machine tool company. P. A. Abe. il Factory Management 100:50-2+ Ap '42

Legal aspects of standardization and simplification; with correspondence between Attorney General and defense agencies. P. G. Agnew. Ind Stand 12:260-7 O '41

Making it simpler; government's simplification-standardization program. Business Week p17-18 N 22 '41

Making the marketing plan solve your procurement job; simplification of lines and advertising averted priority difficulty and added dealers for Master rule mfg. co. F. Keeler. il Ind Marketing 27:22-3+ My '42

Master Rule short line policy is hit with trade; cuts waste. Sales Management 50:29 Ap 1 '42

National bureau of standards in war simplification and standardization work. L. J. Briggs. Ind Stand 13:149-51 Je '42

Simplification cuts frills, reduces sizes and varieties; orders of plumbing and heating branch of War production board. Dom Eng 159:40-1+ Ap '42

Speeding war work by simplification; Walter Kidde & company. Marine Eng 47:118 My '42

Standard arms; WPB limits number of armament parts a given plant can make. Business Week p26+ Je 13 '42

Standardization and simplification; abstract. C. K. Royce. Mod Packaging 15:72+ My '42

Victory program for our industry. Dom Eng 159:51 Ja '42

WPB drives for simplified lines and standards. H. Cooney. il Ind Stand 13:137-41 Je '42

SINCLAIR, John Stephens, 1867-

New executive vice-president of New York Life. C. Axman. por East Underw 43:3-4 My 22 '42

SINGAPORE

Strategy at Singapore. E. H. Miller. 145p bibliog(p137-8) $2.50 Macmillan '42

SINGER wildlife refuge

Singer wildlife refuge; resolution on its preservation. Science 96:7-8 Jl 3 '42

SINK-and-float process

Advances in milling methods, 1941; coarse concentration. W. L. Zeigler. Min Cong J 28:70-1 F '42

SINKING funds

Replacement calculation using sinking fund depreciation. Oil & Gas J 40:233 Mr 26 '42

SINKS

Tile for tubs and sinks. il diags Am Bld 64: 112-13 Ap '42

SINTERING

Industrial powder metallurgy. P. R. Kalischer. il diags Iron Age 149:41-6 F 5; 46-51 F 12 '42

Iron powder and its sintering. J. Libsch, R. Volterra and J. Wulff. il Metal Prog 41: 528-30+ Ap '42

Manganese investigations, Metallurgical division; pyrometallurgical studies of manganese ores; sintering or nodulizing of ferrograde manganese mill products and fine ores for smelting purposes. V. Miller and others. pl U S Bur Mines Rep of Invest 3625:1-14 '42

Modern practice in rotary kiln sintering. S. G. Thyrre. il diags Blast F & Steel Pl 29: 324-9+ Mr '41; Excerpts. Rock Prod 45:84+ Ag '42

Powder metallurgy; Chevrolet bearing sleeve from sintered steel chips. H. Chase. il diags Automotive Ind 85:35+ D 15 '41

Producing pig iron for the trade; E. & G. Brooke iron company. W. H. O'Connell. il Comp Air M 47:6817-18 Ag '42

Sintered, forged and rolled iron powders. C. G. Goetzel. il Iron Age 150:82-4, 87-92 O 1 '42

SINTERING—*Continued*

Sintered metals in friction devices. E. F. Cone. bibliog il diag Metals & Alloys 14: 843-50 D '41

Sintered parts; progress in fabrication from compressed porous powders. Automobile Eng 32:266-8 Jl '42

Sintering furnaces and atmospheres. R. P. Koehring. il diag Metal Prog 41:657-62+ My '42

Some properties of sintered and hot-pressed copper-zinc powder compacts. C. G. Goetzel. bibliog il Am Soc for Metals Trans 30:86-117; Discussion. 117-23 Mr '42

SINUSITIS

Nasal sinuses, an anatomic and clinical consideration. O. E. Van Alyea. 262p $6.50 Wood '41

SIPHONAPTERA. See Fleas

SIPHONS

Closed siphon system handles disposal water at Tinsley. R. M. Sanford. il Oil & Gas J 40:57-8 F 26 '42

Determining proper heights for boot and siphon on gun barrel. G. M. Stearns. diag Oil & Gas J 40:53 Ap 9 '42

Steel siphon rehabilitation on the Los Angeles aqueduct. W. W. Hurlbut, B. S. Grant and H. A. Price. il diags map Am Water Works Assn J 34:1635-66 N '42

Utilize concrete pipe in heavy construction operations. il Concrete 50:5 Je '42

SIRENS. See Air raid signals; Whistles

SIRUPS

Production of a palatable artichoke sirup; application of organic exchangers. D. T. Englis and H. A. Fiess. bibliog Ind & Eng Chem 34:864-7 Jl '42

See also

Apple sirup

Corn sirup

SISAL hemp

Identification of various types of tendering in manila and sisal. V. Castle and W. A. S. White. bibliog pls Textile Inst J 33: T17-32 Mr '42

Molding a phenolic-sisal product; Co-Ro-Lite. H. C. Nelson, jr. and L. D. Reed. il diags Mod Plastics 19:52-3, 90 Mr '42

Sisal production de-restricted. Economist 143: 153 Ag 1 '42

Sisal rope; hazards and precautions. Nat Safety N 46:52, 54 Jl '42

Sisal ropes tested; strength and wear. Elec W 118:1288, 1290 O 17 '42

SIX-hour day. See Hours of labor—Six-hour day

SIZER, Frank Leonard, 1856-1942

Appreciation. G. J. Young. por Min & Met 23:493-4 S '42

SIZING (textiles)

New barrel-wind attachment for nylon sizing machine. il Rayon 23:489 Ag '42

Sizing in war time. A. Sumner. Textile Col 64:62+ F '42

See also

Cotton sizing

Rayon sizing

SKATING rinks

Iceless ice; Mark ice. Comp Air M 46:6496 Jl '41; Same. Franklin Inst J 232:424 N '41

New brine system boosts rink profits; Pasadena skating rink. O. H. Barnhill. il diag Power Pl Eng 45:63-4 D '41

SKELLY oil company

Another look at your company. il Mag of Wall St 70:131 My 16 '42

Good earnings despite higher taxes. S. Devlin. Mag of Wall St 70:505 Ag 22 '42

SKEW slab bridges. See Bridge design

SKEWED distribution. See Frequency distribution (statistics)

SKI troops. See United States—Army—Ski troops

SKIDS

Lift-truck-skid materials handling system; Barrett-Cravens co. il Steel 110:94+ Je 8 '42

Materials handling with industrial trucks. W. S. McCann. il Paper Ind 24:152-5 My '42

New Yale skid saves metal. il Ry Age 112: 487-8 Mr 7 '42

Speeding machine tool production; skid-lift-truck system at Kearney & Trecker's. flow chart il Iron Age 148:59-62 N 20 '41

SKILLED labor. See Labor and laboring classes

SKIN

Natural protection against sunburn. H. F. Blum and J. S. Kirby-Smith. bibliog Science 96:203-4 Ag 28 '42

Phenyl mercuric oleate; skin irritant properties. C. P. McCord, S. F. Meek and T. A. Neal. J Ind Hygiene 23:466-9 D '41

Diseases

Atlas of the commoner skin diseases. H. C. G. Semon. 2d ed 271p $12 Williams & Wilkins '40

Dermatitis control in a mass production industry. T. F. Mooney. Ind Med 11:191-3 Ap '42

Dermatitis from cutting oils. L. Schwartz. Ind Med 11:228+ My '42

Dermatitis occurring among operators of air conditioning equipment. L. Schwartz and J. E. Dunn. Ind Med 11:375-8 Ag '42

Dermatitis occurring in a woolen mill. L. Schwartz and J. E. Dunn. Ind Med 11:432-5 S '42

Dermatologic therapy in general practice. M. B. Sulzberger and J. Wolf. 2d ed rev 632p $5 Year book pub, Chicago '42

Diagnostic procedure in evaluating industrial dermatoses. L. Tulipan and F. A. Glass. bibliog Ind Med 11:101-4 Mr '42

Diseases of the skin. F. C. Knowles, E. F. Corson and H. B. Decker. 4th ed rev 621p $7 Lea & Febiger, Philadelphia '42

Essentials of dermatology. N. Tobias. 497p $4.75 Lippincott '41

Four commonest hand dermatoses. T. Cornbleet. Ind Med 11:55-8 F '42

Industrial dermatitis; abstract and discussion. M. W. Goldblatt. Chem & Ind 61:13 Ja 3 '42

Industrial dermatitis in our war industries. L. Schwartz. Ind Med 11:457-62 O '42

Interpretation of the patch test. O. L. Levin. Ind Med 11:177-9 Ap '42

Introduction to dermatology. R. L. Sutton and R. L. Sutton, jr. 4th ed 904p bibliog(p835-70) $9 C. V. Mosby co, St Louis '41

Occupational and related dermatoses; abstracts from the literature for the years 1935 to 1939, inclusive. L. Schwartz and L. H. Warren. (Pub. health bul. 266) 160p U.S. Public health service, Washington; pa 20c Supt. of doc. '41

Occupational dermatitis; the use of cutting oils. Nat Safety N 45:168+ Mr '42

Patched skin; patch test to determine sensitivity to irritants. L. Schwartz. il Safety Eng 82:41 N '41

Persistent problem; dermatitis most prevalent occupational disease. C. A. Weslager. bibliog il Nat Safety N 46:26, 58 S '42

Predisposition to occupational skin disease. J. N. Gallivan. Ind Med 11:397-8 Ag '42

Prevent dermatoses. L. Schwartz. il Safety Eng 83:43-4 Ap '42

Seven million dollar itch; protective ointments relieve industrial dermatitis in plastic industries. J. Stifter. Mod Plastics 19: 51 D '41

Skin sensitivity as a factor in job placement; Colt's patent fire arms manufacturing co. J. H. Biram. Ind Med 11:385-6 Ag '42

Skin troubles in welding. il Iron Age 150: 62D Jl 30 '42

War program and the part which insecticides and disinfectants are playing in it; dermatitis hazards. J. E. Dunn and L. Schwartz. bibliog Soap & San Chem 18: 91-4+ Ag '42

Wiped out dermatitis; J. Greenebaum tanning company. A. B. Schoofs. il Factory Management 100:78-80 Ja '42

See also

Boils

SKIN—Diseases—*Continued*

Bibliography

Bibliography on skin manifestations due to industrial occupations [7 titles]. Weekly Underw 147:42 Jl 4 '42

SKIN effect

Formulas for the skin effect. H. A. Wheeler. bibliog diags Inst Radio Eng Proc 30:412-24 S '42; Abstract. Electronics 14:32-3 D '41

Reactance and skin effect of concentric tubular conductors. H. B. Dwight. bibliog Elec Eng 61:Trans 513-18 Jl '42

Skin effect formulas. J. R. Whinnery. Electronics 15:44-8 F '42

SKIP tracers company

Reported missing. Comm & Fin Chr 156: 1428 O 22 '42

SKIS and skiing

Manual of ski mountaineering. D. R. Brower, ed. 135p bibliog(p135) $1.50 Univ. of California press, Berkeley '42

Parallel skiing. E. F. Loosli. 96p $1.25 Morrow '41

Polarized control used on ski lift, Mt. Hood, Oregon. W. K. Nelson and R. W. Hutchinson. diag Elec W 117:312+ Ja 24 '42

Radio ski troops. S. R. Winters. il Radio N 27:22-4+ My '42

Working skis for U.S. troops. il Mod Plastics 19:50-1+ My '42

SKULL

Vitallium plates used to repair skull defects. Sci Am 165:332 D '41

SKUTTERUDITE (term)

Relationships of the higher arsenides of cobalt, nickel and iron occurring in nature. R. J. Holmes. Science 96:90-2 Jl 24 '42

SKY

Intensity of the light of the night sky; magnetic disturbances; behaviour of the F_2 layer; abstract. G. Leithäuser. Wireless Eng 19:366-7 Ag '42

Lighting engineers study sky-glow. il Elec W 118:930-1 S 19 '42

Measurements of ultraviolet solar- and sky-radiation intensities in high latitudes. W. W. Coblentz, F. R. Gracely and R. Stair. bibliog pl J Research Nat Bur Stand 28: 581-91 My '42

SKYLIGHTS

Easy method for masking skylight. Elec W 118:638 Ag 22 '42

More light and ventilation with this wire glass skylight. H. Sibley. diags Am Bld 64:79-80 F '42

SLABS, Concrete. See Concrete slabs

SLAG

Arc furnace refining slags; abstract. N. F. Dufty. Metals & Alloys 15:1012+ Je '42

Desulphurization in the open-hearth. F. W. Scott and T. L. Joseph. bibliog il Metals & Alloys 15:745-50, 976-8 My-Je '42

Effect of glassy slag on the stability and resistance to film stripping of bituminous paving mixtures. Pub Roads 22:209-12 N '41

Effect of manganese on the desulphurizing power of calcium silicates. F. W. Scott and T. L. Joseph. bibliog Blast F & Steel Pl 30:425-30, 532-5+ Ap-My '42

First helper's hand book of slag control. J. T. Mauer. il Blast F & Steel Pl 30:656-61 Je '42

Grinding and slag dumps. G. W. Jarman, jr. Mech Eng 64:458-9 Je '42

Loss of copper in slags. A. C. Halferdahl. Eng & Min J 143:72 S '42

Manufacture of high-quality low-cost steel; general characteristics of steel-making. P. J. McKimm. il Steel 110:74, 76, 79 Ap 27 '42

Marketing slag as ready mix; Cleveland slag co. builds modern batching plant as a service in supplying concrete to dealers. il Rock Prod 45:104-5 Ag '42

Mining steel mill slag dumps for metal scraps discarded years ago. il Steel 110:59 F 16 '42

Pops in slag concrete. F. Hubbard. Am Concrete Inst J 13:278-80 Ja '42

Recovery and preparation of steel scrap. F. E. Ullman. il Steel 111:97-8+ Jl 6 '42

Rotating induction furnace; laboratory studies of slag-metal reactions. F. W. Scott and T. L. Joseph. il diags Metals & Alloys 15: 414-19 Mr '42

Slags in steel production; abstract. F. Korber and W. Oelsen. Iron Age 149:58 F 26 '42

Solubility of iron oxide in liquid iron. J. Chipman and K. L. Fetters. bibliog diag Am Soc for Metals Trans 29:953-67; Discussion. 967-8 D '41

Some basic slag systems. R. Hay and J. White. bibliog Blast F & Steel Pl 30:446-8+ Ap '42

Survey of literature on slag tests for refractory materials. T. L. Hurst and E. B. Read. Am Cer Soc J 25:283-94 bibliog(166 titles, p290-4) Jl 1 '42

Switches quickly from lightweight units to heavy concrete ballast; use of slag as aggregate. il Concrete 50:16+ S '42

SLAG (in boilers)

More steam; how? slag, ash, boiler design. A. Iddles. Elec W 118:808-9 S 5 '42

More steam; how? slag removal. A. Iddles. Elec W 118:958, 1122, 1300+ S 19-O 17 '42

What the operator wants to know. A. Iddles. il Power Pl Eng 46:70-3 O '42

Where medium-grade coals should be preferred. E. G. Bailey. diags Coal Age 47:87-8+ S '42

SLANG

American thesaurus of slang. L. V. Berrey and M. Van den Bark. 1174p $5 Crowell '42

Army talk; a familiar dictionary of soldier speech. E. Colby. 232p $2 Princeton univ. press '42

SLATE

Correlation and metamorphism of the Thomson formation, Minnesota. G. M. Schwartz. bibliog map Geol Soc Bul 53:1001-20, pl 1-4 Jl '42

Structures in the Thomson formation, Minnesota. G. M. Schwartz. bibliog il diags Econ Geol 37:39-63 Ja '42

SLATE flour

Industrial uses of chemicals. Oil Paint & Drug Rep 141:34 F 23 '42

SLAUGHTERING and slaughterhouses

Waste

Role of chemicals in industrial waste treatment; canneries, paper mills, beet sugar factories, slaughter houses, laundries, etc. E. F. Eldridge. il Water Works & Sewerage 89:345 Ag '42

SLEEP

Energy and sleep, why we need it and how to get it. D. A. Laird and C. G. Muller. 214p bibliog(p209-14) World pub. co, 2231 W. 110th st, Cleveland '41

See also

Insomnia

SLEEPING bags

Fabrics for military purposes; cotton and acetate rayon fabrics for sleeping-bags. il Textile World 92:68 My '42

SLEEPING cars

Authorizes 10 per cent Pullman rate increase. Ry Age 112:586 Mr 21 '42

Coach-sleeper features new economy in rail travel. il Sci Am 166:88 F '42

Hearing on Pullman rate application. Ry Age 112:418-19 F 21 '42

I.C.C. orders Jim Crow sleepers. Ry Age 111: 888 N 22 '41

Pullman car maintenance and periodic inspection. W. T. Kidwell. il Ry Mech Eng 116:72-3 F '42

Pullman car with 24 rooms being tested. il Ry Age 112:822+ Ap 25 '42

Pullman tryouts; triple-deck sleepers. Business Week p43-4 D 20 '41

See also

Pullman company

Advertising

Ads during war keep friends after. G. A. Kelly. Comm & Fin Chr 155:1027 Mr 12 '42

SLEIGHT of hand. See Conjuring

SLIDE film projectors
Projectors for kodachrome transparencies. Consumers' Research Bul 9:23-4 Je '42

SLIDE films
Educational slide film advances employe information program at New Orleans public service company. J. E. Kearns. Am Gas J 156:24+ Ap '42
Four problems Fruehauf Trailer licked with a training film. W. D. Wise. il Sales Management 51:48, 50 O 1 '42
Kodachrome slides of advertising layouts. R. L. Pepperburg. il diag Am Phot 36:33 S '42
Laboratory materials for selling classes. C. A. Nolan. J Retailing 17:123-5 D '41
Modern kitchen bureau sales training films prove valuable to utilities. Edison Elec Inst Bul 9:467-8 N '41
Pan American's training program for service mechanics; use of slide films. J. Howard. il Aero Digest 41:225+ O '42
Summary of requests for industrial films from George-Deen classes. Sales Management 49:26 D 15 '41

SLIDE films, Stereoscopic
Third dimension in films. A. H. Hutton. Adv & Sell 34:72 D '41

SLIDE rule
Conversion slide rule. W. Wang. Civil Eng 12:103 F '42
Remodeled slide rule speeds gas-volume computation. il Oil & Gas J 40:50 F 19 '42
Slide rule and its use; a text-work book. H. H. Sommers, H. Drell and T. W. Wallschlaeger. 208p $2.98 Grosset & Dunlap, New York '42
Slide rule for designing reinforced concrete beams. W. N. Hazen. il Civil Eng 12:37 Ja '42
Slide rule for designing reinforced concrete slabs. W. N. Hazen. diag Civil Eng 11:731-2 D '41
Slide rule yields primary fuse sizes. J. B. Hodtum. il Elec W 118:1482+ O 31 '42
Special slide rule for calcium carbonate equilibrium problems in corrosion control of water supplies. A. A. Hirsch. bibliog Ind & Eng Chem Anal ed 14:178-80 F 15 '42
Special slide rules can facilitate many engineering calculations. G. T. Austin. bibliog il Chem & Met Eng 49:90-3 Ag '42
Special slide rules; simple methods of construction. R. S. Diserens. il diags Product Eng 13:340-2 Je '42
Vertical curves solved by slide-rule. C. M. Bennett. Eng N 128:355-6 F 26 '42

SLINGS and hitches
Safe rope slings. P. C. Ziemke. Power Pl Eng 46:116 My '42
Safety gets a lift; slide for handling light and medium loads. W. Hobbs, jr. il Safety Eng 84:27 Ag '42

SLOAN, Alfred P. jr. 1875-
Personalities in industry. por Sci Am 166:115 Mr '42

SLOAN, George A. 1893-
Portrait. Business Week p36 Jl 18 '42

SLOGANS
American mottoes and slogans. G. E. Shankle. 183p $1.75 Wilson, H.W. '41
New slogans. Ptr Ink 199:48-9 Je 26 '42
What kind of slogan and trade-mark do women most easily remember? il Sales Management 49:26-8+ D 1 '41

SLOSSON, Edwin Emery
Edwin Emery Slosson: a chemist of the West. D. Barton. bibliog pors J Chem Educ 19:17-20 Ja '42

SLOTHS, Fossil
Ground sloth in Alaska. C. Stock. Science 95:552 My 29 '42

SLOTTING machines
Hunter vertical slotting machine. il Automobile Eng 32:116-17 Mr '42
Large gears cut with a slotter. S. Koffsky. diags Iron Age 148:52-3 D 25 '41

SLOWDOWN. See Sabotage

SLUDGE, Sewage. See Sewage sludge

SLUDGE flow
Flow of solids in piping; practical data on pumping and piping sludges, muds and suspensions. H. E. Babbitt and D. H. Caldwell. bibliog diags Heating-Piping 14:423-7, 491-4 Jl-Ag '42

SLUMS
Some considerations in the economic posibilities of slum clearance. S. Keyes. map J Land & Pub Util Econ 18:204-9 My '42
Technique for delimiting Chicago's blighted areas. R. C. Klove. J Land & Pub Util Econ 17:483-4 N '41
Three studies of cost of slums. Monthly Labor R 53:1428-31 D '41
To save the cities; Urban land institute proposal for rebuilding blighted city areas. Business Week p33-4 F 7 '42
To stop urban blight; partnership between private and public effort is proposed. A. W. Binns. il Tech R 44:130+ Ja '42
Urges home remodeling; abstracts. D. H. McNeal. Am Bld 64:86 Mr '42; Arch Forum 76:sup66+ F '42
See also
Housing
Municipal improvement

SMALL arms. See Firearms

SMALL business. See Business—Small business

SMALL loans. See Loans, Small

SMALL products. See Products, Small

SMALL town stores. See Retail trade—Small town stores

SMALLER war plants corporation
Credit, not relief. Business Week p80-2 Jl 18 '42
How the Smaller war plants corp. expects to relieve a distress that threatens our national economy. Steel 111:50-1 Ag 10 '42
How to get small war contracts. J. W. Hazard. Barron's 22:3 Je 22; 3-4 Ag 10 '42
Little man's pal; Congress is steaming up again about aid to small plants. Business Week p20, 22 O 10 '42
Officials named for Smaller war plants corp. Comm & Fin Chr 156:296 Jl 23 '42
Pledges spread of war work to small business. L. E. Holland. Comm & Fin Chr 156:266 Jl 23 '42; Same. Banking 35:66 Ag '42
Receives important emergency powers. Am Mach 86:798c Jl 23 '42
Small business to get loans for war work. Comm & Fin Chr 156:1343 O 15 '42
Small plant aid. Business Week p17 S 5 '42
Small war plant division headed by Holland. Oil Paint & Drug Rep 142:5+ S 21 '42
Smaller war plants. B. D. Nash. Banking 35:13+ S '42
SWPC created to spread subcontracting. Burroughs Clearing House 26:21+ Ag '42
War financing; act to mobilize productive facilities of small business. Fed Res Bul 28:635-41 Jl '42

SMELL
See also
Odors

SMELTING
Converter smelting. F. E. Wing. Eng & Min J 142:70 N '41; Discussion. M. W. Krejci. 142:70 D '41
Manganese investigations, Metallurgical division; pyrometallurgical studies of manganese ores; sintering or nodulizing of ferrograde manganese mill products and fine ores for smelting purposes. V. Miller and others. pl U S Bur Mines Rep of Invest 3625:1-14 '42
Manganese investigations, metallurgical; pyrometallurgical studies of manganese ores. R. G. Knickerbocker and V. Miller. pl U S Bur Mines Rep of Invest 3659:1-23 '42
Mining tour of South America: Cerro de Pasco's great mining enterprise. J. B. Huttl. il Eng & Min J 143:47-9 Je '42
See also
Blast furnaces
Furnaces, Metallurgical
Metallurgy
Ore treatment
Slag

SMELTING, Electric. See Electrometallurgy

SMELTING works

Tri-state today. T. L. Wells. il map Explosives Eng 19:328-34 N '41

See also

Blast furnaces

Employees

Dental status of adult male mine and smelter workers. H. P. Brinton, D. C. Johnston and E. O. Thompson. bibliog Pub Health Rep 57:218-28 F 13 '42

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Earnings in the smelting and refining of nonferrous metals, August 1941. H. Ober and J. Loft. Monthly Labor R 55:129-47 Jl '42

Equipment

Air-conditioned crane cab; protection from smoke and fumes; American smelting & refining co. diag Eng & Min J 143:64 Ja '42

Morenci smelter chimney. C. W. Dunham. Min & Met 23:282 My '42

Roasters eliminated in arrangement of smelter at Morenci. L. R. MacLeod. il diag Min & Met 23:278-81 My '42

SMITH, Archibald J. 1892-

New York Board head. por East Underw 43:26 My 29 '42

SMITH, Earl C.

Chairman, Iron and steel division, A.I.M.E. por Min & Met 23:465 S '42

SMITH, F. H., company

My investments in the F. H. Smith company. J. D. Parrott. 238p $3 J. D. Parrott, 1825 New Hampshire av, Washington, D.C. '41

SMITH, Frank, 1857-1942

Sketch. P. S. Welch. Science 95:398-400 Ap 17 '42

SMITH, Henry Perkins, 1883-1942

Sketch. por East Underw 43:21 O 16 '42

SMITH, Herbert E. 1889-

Named president of United States rubber co. por Rubber Age 52:65 O '42

SMITH, Matthew

Matt Smith: independent. por Business Week p78 Ag 22 '42

SMITH college

Smith college's investments. Barron's 22:18 O 19 '42

SMITHSONIAN institution

Smithsonian enterprises. C. G. Abbot. Science 96:417-19 N 6 '42

Smithsonian institution as an illustration of internationalism in science. C. G. Abbot. Science 95:639-41 Je 26 '42

SMOKE

Fume control in foundries a vital wartime ventilation job. B. G. Silberstein. il plan Heating-Piping 14:659-60 N '42

Principles of smoke formation and elimination. B. A. Landry. diags In Ill U Eng Exp Sta Circ 43:41-8 '42

Smoke and fire gases; toxic constituents. W. H. Easton. bibliog Ind Med 11:466-8 O '42

Tunnel smoke filter. il Eng & Min J 142:63 N '41

See also

Combustion
Flue dust
Fuel
Fumes

SMOKE prevention

Burning Illinois coal smokelessly in hand-fired heating plants. J. R. Fellows and J. C. Miles. il diag In Ill U Eng Exp Sta Circ 43:83-99 '42

How gas heat de-smoked Salt Lake City. R. Latimer. Gas Age 90:18 Ag 13 '42

Principles of smoke formation and elimination. B. A. Landry. diags In Ill U Eng Exp Sta Circ 43:41-8 '42

Rebuilding of Britain; smoke abatement movement. C. Gandy. Gas J (Lond) 236:139, 141 O 22 '41

St Louis smoke ordinance upheld by Missouri Supreme court. Heat & Ven 39:67 S '42

St Louis victory over smoke. A. S. Langsdorf. In Ill U Eng Exp Sta Circ 43:63-71 '42

Smoke abatement. L. V. Briggs. 175p $2.50 Old corner book store, Boston '41

Smoke abatement; a problem for the whole coal industry. W. G. Christy. Min & Met 23:209 Ap '42

Smoke in the West; Salt Lake City's smoke control ordinances. il Dom Eng 159:66+ My '42

Smoke prevention association of America meeting, Cleveland, June 2-5. Power Pl Eng 46:91 Jl '42

See also

Chimneys
Combustion
Electric precipitation
Locomotives—Smoke problem

SMOKE recorders

Improved Penn State smokemeter. P. H. Schweitzer. il diags Instruments 15:346-50 S '42

Leeds and Northrup smoke density recorder. diag R Sci Instr 13:269 Je '42

Meter for determining density of exhaust smoke. diags Ry Mech Eng 116:33 Ja '42

Photo-electric smoke meters. R. J. Wey. diags Engineer 173:283-5, 300-1+, 320-2, 342-3+ Ap 3-24 '42

SMOKED fish. See Fish, Smoked

SMOKED turkey. See Turkey, Smoked

SMOKELESS powder

Smokeless powder material increased by cotton research. Franklin Inst J 232:602-3 D '41

Manufacture

Dissolving pulp in war-time; supplementing linters with wood pulp in production of smokeless powder, rayon and plastics. A. D. Styles. Chem & Met Eng 48:80-2 D '41

Power for powder; manufacture of smokeless powder. W. O. Hauck. il Power 86:491, 494 Jl '42

Producing smokeless powder by 1942 methods. R. E. Hardy. flow sheet(p110-13) il Chem & Met Eng 49:76-9 Ap '42; Same abr. Chem Age (Lond) 47:133-5 Ag 8 '42

Smokeless powder; chopped-up cotton speeds production. Sci Am 166:59 F '42

SMOKING

Control of smoking in factories. Pulp & Pa of Can 43:856 O '42

Increasing fires lead to "no smoking" rules. Nat Safety N 45:90 Ap '42

See also

Cigarets

SMOKING of food

Engineering problems of the smoke-curing of fish. C. L. Cutting. il diags Chem & Ind 61:365-8 Ag 29 '42

Vacuum smoking; U.S. patent. Food Ind 14:101 My '42

SMYTH, Ellison Adger, 1847-1942

Sketch. por Textile World 92:62 Ag '42

SNAILS

Concerning gastropods adhering to foreign objects. J. Bequaert and W. J. Clench. Science 94:514 N 28 '41

Trapping snails of the genus campeloma. L. N. Allison. diags Science 95:131-2 Ja 30 '42

SNAPDRAGONS

Colchicine induced univalents in diploid antirrhinum majus L. A. H. Sparrow. Science 96:363-4 O 16 '42

Tetraploidy in antirrhinum majus induced by sanguinarine hydrochloride. T. M. Little. Science 96:188-9 Ag 21 '42

SNOW

Progress in engineering knowledge during 1941; resin casts of snowflakes. P. L. Alger. il Gen Elec R 45:83-4 F '42

SNOW algae. See Algae

SNOW barriers

Planted snow fences. M. W. Torkelson. il Eng N 129:408-9 S 24 '42

Planting to control drifts on highways; with cost data. C. G. Bates and J. H. Stoeckeler. il diags Eng N 129:92-6 Jl 16 '42

SNOW fences
See also
Snow barriers

SNOW houses
Experiments on carbon monoxide poisoning in tents and snow houses. L. Irving, P. F. Scholander and G. A. Edwards. il J Ind Hygiene 24:213-17 O '42

SNOW plows
Fighting snow to keep 'em flying. H. W. Hunt. il map Eng N 129:641-8 N 5 '42
Selection of equipment for snow removal and ice control. C. L. Motl. il Roads & Bridges 80:41-2, 86, 88+ O '42
Snow control with plows in Manitoba, Canada. map Roads & Sts 84:58-9 D '41
Thirty Roto wings and offset plows for R.C.A.F. airports. il Roads & Bridges 80:38+ S '42

Lighting

Added lights on Ohio snowplow reduce accidents. il diag Eng N 129:183-4 Jl 30 '42

Repair

Snowplow repairs. A. Havens. il diag Am Mach 86:157 Mr 5 '42

SNOW removal
Army and Air force test Canadian-made snow blowers. il Roads & Bridges 80:36-8+ Mr '42
Can the Meteorological service help to improve winter road maintenance? J. Patterson. il Roads & Bridges 80:39-40, 92+ O '42
Principles of winter road maintenance; Ontario department of highways. J. D. Millar. il diags map Roads & Bridges 80:36-8+ O '42
Salt shatters snow and ice crusts. il Roads & Sts 85:57, 60 F '42
Selection of equipment for snow removal and ice control. C. L. Motl. il Roads & Bridges 80:41-2, 86, 88+ O '42
Snow control with plows in Manitoba, Canada. map Roads & Sts 84:58-9 D '41
Snow removal from city streets; methods and costs of winter maintenance in typical Canadian municipalities. Roads & Bridges 80:103 F '42
Snow removal in Oconto county, Wisconsin. C. L. Foley. il Roads & Sts 85:49-50 Ag '42
Snowplowing program in Bruce county. G. E. Stephenson. Roads & Bridges 80:106 O '42
Winter maintenance on the Pennsylvania Turnpike. H. F. Webber. il Roads & Sts 84:31-3 N '41
See also Airports—Snow protection and removal

SNOW tractors
Snowmobile; high country winter line work; snow tractor and sled. il diags Elec West 87:33 D '41

SNYDER, Baird, 3d
Pinch-hitter; FW administrator. por Arch Forum 76:sup4 F '42

SOAP
Action of kettle soaps; abstract. J. Leimdorfer. Soap & San Chem 18:55 S '42
Anhydrous sodium soaps; heats of transition and classification of the phases. R. D. Vold. diag Am Chem Soc J 63:2915-24 N '41
Cutaneous detergents; abstract. C. G. Lane and I. H. Blank. Soap & San Chem 18:57 My '42
Determination of calcium in the presence of magnesium by standard soap solution; a rapid titration method. J. W. Polsky and others. bibliog Ind & Eng Chem Anal ed 14:644-6 Ag 15 '42
Floating soap; abstract. Soap & San Chem 18:61 Mr '42
Flotation treatment of white water. E. N. Poor and H. A. Whitenight. bibliog diags Paper Tr J 114:21-4 F 26 '42
Glycerine supply vital; abstract. G. A. Wrisley. Soap & San Chem 18:41 N '42
Hand cleaners for industry. il Soap & San Chem 18:21-3+ F '42
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:42 Je 29; 142:61 Jl 6; 53 Jl 13 '42
Inhibition of the proteolytic action of trypsin by soaps. R. L. Peck. bibliog Am Chem Soc J 64:487-90 Mr '42
Invert soaps of naphthalene. J. B. Niederl and H. Weingarten. bibliog Am Chem Soc J 63:3534-5 D '41
New salt water soap specification. Soap & San Chem 18:65 Jl '42
New trade marks. Published in monthly numbers of Soap and sanitary chemicals
Orientation of micelles in soap fibers. S. Ross. bibliog J Phys Chem 46:414-17 Mr '42
Perfumes, cosmetics and soaps; with special reference to synthetics. W. A. Poucher. 3v v 1 5th ed; v2-3 6th ed 459p; 430p; 234p v 1-2 ea $8; v3 $7 Van Nostrand '42
Precipitated starch product; effect of soap on viscosity. C. C. Kesler and W. C. Black. bibliog Paper Tr J 114:57-60 My 21 '42
Salt water soap; substitution of synthetic detergents in soap for the navy. B. Naylor. il Soap & San Chem 18:21-4+ N '42
Soap builder combinations; abstract. J. C. Harris, J. R. Eck and W. W. Cobbs. Soap & San Chem 18:59 Mr '42
Soap for glove cleaning. P. I. Smith. Soap & San Chem 18:23-4 O '42
Soap in the laundry; abstract. F. C. Harwood. Soap & San Chem 18:57 S '42
Soap in the rubber crisis; synthetic rubber calls for the use of 100,000,000 pounds of tallow chip soap yearly in butadiene manufacture. il Soap & San Chem 18:28-31 N '42
Soap speeds production; fights insect pests. Chem Ind 51:616 O '42
Solubility studies with soap; abstract. C. W. Leggett, jr., R. D. Vold and J. W. McBain. Soap & San Chem 18:57 Ag '42
Solubilization of water-insoluble dye in aqueous solutions of commercial detergents. J. W. McBain and R. C. Merrill, jr. bibliog Ind & Eng Chem 34:915-19 Ag '42
Solvent hand soaps; abstract. C. J. Davidsohn and A. Davidsohn. Soap & San Chem 18:59 N '42
Theories of detergency. C. G. Lane and I. H. Blank. Soap & San Chem 18:59-60 Je '42
Transparent soap; abstract. Soap & San Chem 18:59 S '42
Transparent soap studies; abstract. B. Tiutiunnikov, S. Pleschkov and A. Tschernitschkina. Soap & San Chem 18:58 Ap '42
U.S.P. soft soap; comments from the trade on the proposed new monograph. Soap & San Chem 18:21-3+ Ja '42
Use of soap for washing; abstract. E. T. Williams. Chem & Ind 60:880-1 D 13 '41
Value of silicate of soda as a detergent; effect of silicates, phosphates, borax, soda ash, and caustic soda on oleate and stearate soap requirements for sudsing in hard water. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42
Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42
See also
Bath preparations
Saponification
Sodium oleate
Sodium palmitate
Sodium stearate

Analysis

Fatty acid determination; abstract. G. Kedvessy. Soap & San Chem 18:60 Jl '42
Improved moisture determination apparatus. J. J. Young. il Soap & San Chem 18:59 Ja '42
Standard methods for the sampling and analysis of commercial soaps and soap products, revised. R. E. Divine and others. bibliog diags Ind & Eng Chem Anal ed 14:558-67 Jl 15 '42

Anti-oxidants

Soap antioxidant developed, SA 326. Chem & Eng N 20:868 Jl 10 '42
Stabilization of white milled soaps. A. T. Fiore. bibliog il Soap & San Chem 17:30-3+ D '41

SOAP—*Continued*

Physiological effect

Action of rosin soaps on human skin. L. D. Edwards. Soap & San Chem 17:65+ D '41

Action of soap on the skin. C. G. Lane and I. H. Blank. il Soap & San Chem 18:32-3+ Je '42

Prices

See also

Soap materials—Prices

Rationing

Soap rationing in Great Britain. Economist 142:218 F 14 '42

Soap rations. Economist 142:283-4 F 28 '42

Specifications

Coconut shortage forces revision in soap specifications. Soap & San Chem 18:41 Ap '42

Testing

Detergency measurement. J. C. Gould and C. W. Selheimer. diags Soap & San Chem 18: 29-31 Mr '42

Soap solubility test; abstract. Soap & San Chem 18:56 O '42

Soap washing tests; abstract. A. Schnyder. Soap & San Chem 18:58 N '42

SOAP, Liquid

Formula problems of the potash soap manufacturer. Soap & San Chem 18:27-9 Je '42

Liquid soap manufacturing technique. B. Levitt. flow sheet il Chem Ind 50:362-5 Mr '42

Analysis

Testing soaps and emulsions; abstract. L. Ivanivszky. Soap & San Chem 18:57-8 Ap '42

SOAP, Metallic

Drying of linseed oil paint; coordinated metal soaps as oxygen absorption and drying catalysts. D. G. Nicholson. il Ind & Eng Chem 34:1175-9 O '42; Abstract. Paint Oil & Chem R 104:10-11 My 7 '42

Durability of soap-treated zinc oxide paints. D. G. Nicholson and T. W. Mastin. bibliog il Ind & Eng Chem 34:996-1002 Ag '42

Metallic soaps; their manufacture and use. S. B. Elliott. il Soap & San Chem 18:26-7, 73-4 Jl '42

Protective and decorative coatings. J. J. Mattiello, ed. v2 658p $6 Wiley '42

SOAP, Powdered

New angles on powdered soaps. E. G. Thomssen. il Soap & San Chem 17:27-9+ D '41

Removing soap dust; patent. Soap & San Chem 18:57 Ag '42

SOAP, Textile

Chemical treatment of textiles; war-time dressing and finishing practice. A. E. Williams. Chem Age (Lond) 47:231-2 S 5 '42

SOAP dust. See Soap, Powdered

SOAP factories

Electric equipment

Soap making; how electrical methods assist production. il Elec R (Lond) 131:227-30 Ag 21 '42

Equipment

Modern soap and glycerine making; Manhattan soap co. J. A. Lee. flow chart(p150-3) il Chem & Met Eng 49:125-8 My '42

Modern soap driers; abstract. Soap & San Chem 18:58 Ja '42

War time problems of the soap maker. A. P. Lee. il Soap & San Chem 18:23-6+ Je '42

SOAP industry and trade

Cartoon cartons for soap. il Mod Packaging 16:56-7+ S '42

Need for even greater quantities of glycerine for production of nitroglycerine will spur output of soap. Chem Ind 50:368-9 Mr '42

Procter & Gamble indicted for fraud. Oil Paint & Drug Rep 141:3+ Je 15 '42

Soap price ceilings; high fat costs and low soap prices bring serious situation in the soap industry. Soap & San Chem 18:19-22+ Jl '42

Soap size and quality frozen by OPA order. Soap & San Chem 18:35 Ag '42

Suds make news; latest legal clash of Lever and P.&G. Business Week p62-3 Je 20 '42

Trend in soap buying habits; Milwaukee survey. Soap & San Chem 18:25-7 My '42

War packages for soaps. M. G. Heuer. il Soap & San Chem 18:22-4 S '42

War rules on soap; glycerin becomes main show. Business Week p16 F 14 '42

Why home-made soap? P. Mack. Soap & San Chem 18:24-6+ Ap '42

Exhibitions

Soaps at toiletries show. Soap & San Chem 18:41 Ag '42

Colombia

Soap making in Colombia. il Soap & San Chem 18:39 My '42

Great Britain

British soap industry after three years of war. Soap & San Chem 18:28-9+ Jl '42

Iraq

Regulations adopted for soap industry and trade. For Comm W 8:20-1 Jl 11 '42

Mexico

Mexican soap market. A. R. Gerstel. il Soap & San Chem 18:25-7 O '42

SOAP manufacture

Association of American soap and glycerine producers 15th annual meeting, New York. Soap & San Chem 18:30-1+ F '42

Fatty acids. J. E. Good. il Soap & San Chem 18:19-22+ My '42

Forty-five years of chemistry in a soap plant. M. L. Ittner. il Ind & Eng Chem 34:253-8 F '42; Same. Chem & Ind 61:139-42 Mr 21 '42

Glycerine from potash soaps? Soap & San Chem 18:57-8 F '42

Glycerine; recovery and refining in modern soap plant practice. J. W. McCutcheon. bibliog il diags Soap & San Chem 17:24-8+ N; 34-7+ D '41; 18:27-30+ Ja '42

High-temperature saponification; an anhydrous system. J. J. Jacobs, jr. bibliog diag Ind & Eng Chem 34:322-6 Mr '42

Modern soap and glycerine making; Manhattan soap co. J. A. Lee. flow chart(p150-3) il Chem & Met Eng 49:125-8 My '42

Process industries of the Hamilton area; soap production. W. H. Pitcher and G. L. White. Can Chem & Process Ind 26:262-3 My '42

Products and processes. Published in monthly numbers of Soap and sanitary chemicals

Saddle soaps. P. I. Smith. il Soap & San Chem 18:30-1+ Je '42

Salting out; a discussion of suggested changes in usual soap making practice when using low grade fats and hard water. A. Treffler. il Soap & San Chem 18:24-6 Ja '42

Soap and glycerol. F. D. Snell. il J Chem Educ 19:172-80 Ap '42

Soap making; how electrical methods assist production. il Elec R (Lond) 131:227-30 Ag 21 '42

Soap stabilization; abstract. Soap & San Chem 18:57 Ja '42

Soapmaking fifty years ago. Chem & Ind 61: 349-50 Ag 15 '42

Stabilization of white milled soaps. A. T. Fiore. bibliog il Soap & San Chem 17:30-3+ D '41

War time problems of the soap maker. A. P. Lee. il Soap & San Chem 18:23-6+ Je '42

See also

Soap factories

Soap materials

SOAP manufacture—*Continued*

By-products

See also
Glycerin

Patents

Continuous saponification; abstract. B. Clayton. Soap & San Chem 18:61 Mr '42

Converter toilet soap. Soap & San Chem 18:59 Ap '42

New patents. Published in monthly numbers of Soap and sanitary chemicals

New soap process; saponification via methylation of fat with high direct glycerine recovery; new patent. G. B. Bradshaw. flow sheets Soap & San Chem 18:23-4, 69-70 My '42; Abstract. Can Chem & Process Ind 26:343 Je '42

SOAP materials

Babassu oil for soap making. Textile Col 64:37 Ja '42

Coconut oil. map Soap & San Chem 18:21-4+ Mr '42

Fats and oils: there's time to do a job; intelligent rationing, planned conservation can head off grave scarcities. il Fortune 25:68-71+ Ap '42

Formula problems of the potash soap manufacturer. Soap & San Chem 18:27-9 Je '42

In place of coconut oil. C. R. Kemp. Soap & San Chem 18:21-3 Ap '42

No shortage of soap likely. Barron's 22:5 Mr 16 '42

Rosin in toilet soaps. Soap & San Chem 18:57-8 Mr '42

Rosin; its possible use as a partial replacement for coconut oil. W. D. Pohle. bibliog Soap & San Chem 18:29+ F '42

Salt water soap; substitution of synthetic detergents in soap for the navy. B. Naylor. il Soap & San Chem 18:21-4+ N '42

Selection of soap oils; abstract. R. H. Potts. Soap & San Chem 17:64 D '41

Soap fat use at new high level in 1941. Soap & San Chem 18:31+ Ap '42

War in the Pacific; its significance to the soap industry. Soap & San Chem 18:31+ Ja '42

See also
Soap—Anti-oxidants

Prices

Raw material prices as of December 27, 1941. Soap & San Chem 18:53, 55 Ja '42 [cont monthly]

Roll back fat prices to relieve soap makers. Soap & San Chem 18:29+ Ag '42

SOAPBARK tree

Soap bark from Chile. For Comm W 7:22 My 16 '42

SOAPMAKERS association, American. See American soapmakers association

SOARING. See Gliders

SOCIAL ethics

Edge of the abyss. A. Noyes. il Fortune 26:124-5+ O '42

Faith for history's greatest crisis. R. Niebuhr. il Fortune 26:98-100+ Jl '42

SOCIAL hygiene

See also
Venereal diseases

SOCIAL insurance. See Insurance, Social

SOCIAL laws and legislation

Approaches to social security; an international survey. 100p bibliog(p98-100) pa 50c Int. labor office '42; Review. Monthly Labor R 54:1135-8 My '42

Development of administrative regulation. J. M. Pfiffner. Ann Am Acad 221:1-8 My '42

See also
Child labor laws
Family allowances
Housing laws
Insurance, Social
Insurance, Unemployment
Labor laws and legislation
Minimum wage
Old age pensions
Public health laws
Social security act, 1935
Unemployment—Relief measures
Workmen's compensation

Argentina

Present state of social legislation in the Argentine Republic. J. R. Pichetto. Int Labour R 46:383-419 O '42

Spain

Family allowances and marriage loans in Spain. Monthly Labor R 53:1291 N '41

SOCIAL problems

American social problems. M. E. Walsh. 234p $2 Appleton-Century '42

Brandeis guide to the modern world. L. D. Brandeis. 375p bibliog(p326-52) $2.75 Little '41

Creed for free men, a study of loyalties. W. A. Brown. 277p bibliog(p268-70) $2.50 Scribner '41

Disorganization, personal and social. E. R. Mowrer. 682p $3.75 Lippincott '42

How you can make democracy work. E. T. Lies. 131p bibliog(p129-31) $1.75 Association press, 347 Madison av, New York '42

Introduction to social science; a survey of social problems. G. C. Atteberry, J. L. Auble and E. F. Hunt. v2 800p $4 Macmillan '42

Net impressions. A. G. Keller. 349p $3.75 Yale univ. press '42

Our changing society; its social, civic, and economic problems. P. H. Landis. 488p bibliog(p469-74) $1.76 Ginn '42

Our life today; an introduction to current problems. F. L. Bacon and E. A. Krug. rev ed 657p $1.75 Little '41

Problems of a changing social order. J. M. Gillette and J. M. Reinhardt. 824p $4 Am. book co. '42

Social institutions in an era of world upheaval. H. E. Barnes. 927p bibliog(p881-911) $5.35 Prentice-Hall '42

Social pathology; personal and social disorganization. L. G. Brown. 595p $3.75 Crofts '42

Social welfare; a guide for studying the welfare facilities of the local community. E. S. May. 141p pa 50c Am. assn. of univ. women, 1634 Eye st, NW, Washington, D.C. '40

Strength of nations; a study in social theory. G. Soule. 268p bibliog(p259-62) $2.50 Macmillan '42

World we want to live in; a discussion. E. R. Clinchy, ed. 98p $1 Doubleday '42

See also
Child labor
Child welfare
Cost of living
Crime and criminals
Housing
Immigration and emigration
Insurance, Social
Labor and laboring classes
Liquor traffic
Medical service
Old age pensions
Pensions, Industrial
Public health
Safety movement
Unemployment
Woman—Employment
Youth

SOCIAL problems in literature

Bibliography

Suggested reading list; novels, plays, biographies, poetry dealing with social and economic problems. E. G. Black, ed. 32p pa 15c Am. labor education service, New York '41

SOCIAL progress

Between two worlds; new standards of value face us, but human nature remains steadfast. J. T. Adams. Barron's 22:5 Ja 12 '42

World we want. R. Wyer. Mech Eng 64:727-30 O '42

SOCIAL psychology

Conservatisms, liberalisms and radicalisms and the new psychology. T. Schroeder. 18p Next century press, Cos Cob, Conn. '42

Creative factors in scientific research. A. L. Porterfield. 282p $3.50 Duke univ. press, Durham, N.C. '41

Drives toward war. E. C. Tolman. 118p $1.25 Appleton-Century '42

Fundamentals of social psychology. E. S. Bogardus. 3d ed 538p bibliog(p525-6) $3.50 Appleton-Century '42

Introduction to social psychology. M. H. Krout. 823p bibliog(p748-803) $4 Harper '42

SOCIAL psychology—*Continued*

Man and society in calamity; the effects of war, revolution, famine, pestilence upon human mind, behavior, social organization and cultural life. P. A. Sorokin. 352p bibliog(p321-47) $3 Dutton '42

Our age of unreason; a study of the irrational forces in social life. F. Alexander. 371p bibliog(p342-59) $3 Lippincott '42

Social philosophy and the social mind. E. C. Holmes. 78p bibliog(p76-8) pa $1.25 The author, Howard univ, Washington, D.C. '42

Social psychology. R. T. LaPiere and P. R. Farnsworth. 2d ed 511p $3.50 McGraw-Hill '42

Use of personal documents in psychological science. G. W. Allport. 210p bibliog(p192-201) pa $1.50 Social science research council, New York '41

See also

Public opinion

SOCIAL research

Postwar planning; digest of survey by George B. Galloway. Personnel J 20:363-6 Ap '42

Postwar planning in the United States [work of government and private agencies]. G. B. Galloway. 158p bibliog(p129-58) pa 60c Twentieth century fund, New York '42

Social research; a study in methods of gathering data. G. A. Lundberg. 2d ed 426p bibliog(p415-16) $3.25 Longmans '42

See also

Social surveys

SOCIAL revolution

Foreign efforts to increase disunity. C. R. Miller. Ann Am Acad 223:173-81 S '42

SOCIAL science research council

Awards. Science 96:78 Jl 24 '42

SOCIAL sciences

America in transition. J. A. Kinneman and R. G. Browne. 581p $3.50 McGraw-Hill '42

Democracy and the social sciences. R. Jones. Special Lib 32:365-70 D '41

History and its neighbors. E. M. Hulme. 197p bibliog(p192-4) $2 Oxford '42

Our democracy and its problems. L. J. O'Rourke. 711p $1.88 Heath '42

Social goals and economic institutions. F. D. Graham. 273p $3 Princeton univ. press '42

Strength of nations, a study in social theory. G. Soule. 268p bibliog(p259-62) $2.50 Macmillan '42

Survey of social science. M. B. Smith. 690p $3.75 Houghton '42

This useful world. P. B. Sears, I. J. Quillen and P. R. Hanna. 408p $1.08 Scott, Foresman and co, Chicago '41

Today's problems. R. O. Hughes. 801p $2 Allyn and Bacon, Boston '42

Walter Clinton Jackson essays in the social sciences. V. Largent, ed. 245p bibliog(p235-40, 243-5) $3 Univ. of North Carolina press, Chapel Hill '42

See also

Economics
Sociology

Bibliography

Book reviews. Published in bi-monthly numbers of Annals of the American academy of political and social science

Bulletin of the Public affairs information service, 27th annual cumulation, 1941. M. E. Furbeck and M. Mellinger, eds. 892p $15 Public affairs information service, New York '41

Reading guide for social studies teachers. E. B. Wesley. 158p pa 50c National council for the social studies, Washington, D.C. '41

Methodology

Social causation. R. M. MacIver. 414p bibliog(p395-400) $3.50 Ginn '42

Periodicals

Latin American journals dealing with the social sciences and auxiliary disciplines. E. Lassalle, comp. 73 numb l Division of intellectual cooperation, Pan American union, Washington, D.C. '41

Study and teaching

Social studies and the American way of life. J. W. Wrightstone and D. S. Campbell. 292p $2 Row, Peterson and co, Evanston, Ill. '42

Social studies in the elementary school; twelfth yearbook. W. E. Young, ed. 243p $2.30; pa $2 National council for the social studies, 1201 Sixteenth st, NW, Washington, D.C. '41

Survey of the present status and current trends in the social studies curriculum in Texas schools. J. W. Baldwin. 73p Univ. of Texas, Austin '41

Teaching the social studies. E. B. Wesley. 2d ed 652p $3 Heath '42

SOCIAL security, Inter-American conference on. See Inter-American conference on social security

SOCIAL security act, 1935

Economics of social security. S. Harris. 455p $5 McGraw-Hill '41; Review (Social security and the economy). F. S. Doody. Mech Eng 64:132-3 F '42

Old age benefits for bank employees; is retirement pay wages? Banking 34:41 D '41

Old-age security and the Treasury. G. B. Robinson. J Account 73:7-24 Ja '42

Our partitioned Treasury. G. B. Robinson. bibliog diag J Account 74:140-52 Ag '42

Social security benefits. F. J. O'Brien. Ins Field (Life ed) 70:18-19+ D 12 '41

See also

Insurance, Social—United States
Insurance, Unemployment—United States
Old age pensions
Payrolls—Taxation

SOCIAL security board

Fitting workers to jobs. C. L. Shartle. Personnel J 20:328-32 Mr '42

Personnel. East Underw 42:3-4 D 26 '41

What constitutes an adequate accounting system for a public welfare agency? J. O. Peavey. J Account 74:433-9 N '42

SOCIAL statistics

See also

Employment—Statistics
Labor and laboring classes—Statistics
Population—Statistics
Unemployment—Statistics
Wages—Statistics

SOCIAL surveys

Census by sample; Bureau's takeover of rival WPA Surveys section. Business Week p24+ S 12 '42

How to know and how to use your community. 80p bibliog(p79-80) pa 75c Nat. education assn. of the U.S, Dept. of elementary school principals, Washington, D.C. '42

How to know your community. J. R. Leevy. 32p pa 25c Press of the Interstate, Danville, Ill. '41

Social surveys; wartime social survey of the Ministry of information. Economist 142: 278-9 F 28 '42

Social welfare resource book of Baton Rouge, La. 137p Graduate school of public welfare administration, Louisiana state univ, Baton Rouge '42

Status system of a modern community. W. L. Warner and P. S. Lunt. 246p $3 Yale univ. press '42; Review (Our drift away from democracy) by C. S. Slocombe. Personnel J 21:42-6 Je '42

What types of new construction are essential, today? case in point: Portsmouth, N.H. maps Arch Rec 90:44-7 D '41

See also

Standard of living

SOCIAL welfare

See also

Public welfare
Social work

SOCIAL work

Attacking on social work's three fronts; S. M. Harrison. 30p 15c Russell Sage foundation, 130 E. 22d st, New York '42

SOCIAL work—*Continued*

Case work practice in public assistance administration. D. B. Daly. 158p pa $1 Am. public welfare assn, 1313 E. 60th st, Chicago '42

Determining work loads for professional staff in a public welfare agency. H. A. Simon and others. 94p pa $1 Bur. of public administration, Univ. of California, Berkeley '41

Dynamic concepts in case work practice. 36p pa 25c Social work today, New York '42

Experiment in community improvement. R. S. Ford and F. H. Miner. 29p pa 10c Univ. of Michigan, Bur. of government, Ann Arbor '42

Field of social work. A. E. Fink. 518p bibliog(p485-513) $3 Holt '42

From relief to social security; the development of the new public welfare services and their administration. G. Abbott. 388p $2.50 Univ. of Chicago press '41

New social service; Citizens' advice bureaux. Economist 143:5-6 Jl 4 '42

New York State conference on social work; 42d, Buffalo, Oct. 1941. 146p New York State conference on social work, box 1740, Albany '41

Proceedings of the National conference of social work; selected papers, 68th annual conference, Atlantic City, N.J., June 1-7, 1941. 787p $5 Columbia univ. press '41

Re-thinking social case work. B. C. Reynolds. 3d ed 31p pa 25c Social work today, inc, 112 E. 19th st, New York '40

Social welfare costs in Los Angeles county, 1940. F. E. Gartside. 47p pa 25c Research div, Council of social agencies, 1151 S. Broadway, Los Angeles '41

Volunteers for family service. 92p bibliog(p88-92) pa 65c Family welfare assn. of Am, New York '42

See also
Child welfare
Legal aid
Poor relief
Public welfare departments
Social research
Unemployment—Relief measures
Vocational guidance

Directories

List of directories of social agencies. rev ed 10p pa 20c Russell Sage foundation, New York '41

Study and teaching

Education for the public social services; a report of the Study committee, American association of schools of social work. 324p $3 Univ. of North Carolina press, Chapel Hill '42

Learning and teaching in the practice of social work. B. C. Reynolds. 390p bibliog(p372-9) $2.50 Farrar '42

Social welfare and professional education. E. Abbott. rev & enl ed 321p $3 Univ. of Chicago press '42

Training for skill in social case work. V. P. Robinson, ed. 126p $1.50 Univ. of Pennsylvania press, Philadelphia '42

SOCIAL work, Rural

Effective rural social work through community organization. G. V. Withers. 42p bibliog(p42) pa 30c Am. public welfare assn, 1313 E. 60th st, Chicago '42

Mental hygiene services in rural areas; the program of the Mental hygiene division, Suffolk County Department of health, New York. G. M. Lott. Pub Health Rep 57:1115-26 Jl 31 '42

SOCIALISM

Europe, Russia and the future. G. D. H. Cole. 233p $2 Macmillan '42

History of British socialism. M. Beer. 1 volume ed enl 451p $4.50 Norton '40

Work under capitalism and socialism. A. Leontyev. 62p bibliog(p61-2) 75c International publishers, New York '42

See also
Communism

SOCIETIES

Club member's handbook. L. R. Milligan and H. V. Milligan. 300p 69c New home lib, 14 W. 49th st, New York '42

See also
Benefit societies
Chemical societies
Engineering societies
Insurance associations
Scientific societies
Trade associations
Trade unions

SOCIETY buildings

Horace H. Rackham educational memorial, headquarters of the Engineering society of Detroit; illustrations. Mech Eng 64:416-17 My '42

New home of Engineering society of Detroit; Horace H. Rackham memorial building. il plan Eng N 128:578-9 Ap 16 '42

SOCIETY for the advancement of management

Our first five years; fifteen members contribute their appraisals in retrospect and prospect. Advanced Management 6:123-37 O-D '41

SOCIETY for the promotion of engineering education

Activities of the Civil engineering division, 1940-41. L. G. Straub. J Eng Educ 32:622-30 Ap '42

Annual meeting, 50th, New York. Eng N 129:7 Jl 2 '42

Annual meeting plans; list of new members. J Eng Educ 32:412-19 Ja '42

Committees for 1942-43 and divisions of the Society. J Eng Educ 33:101-5 O '42

Minutes of the meetings of the Council and minutes of the 50th annual meeting, June 27-29. J Eng Educ 33:126-43 O '42

Yearbook; list of members. J Eng Educ 32:10-219 F '42

Mechanical engineering division

Officers and committees for 1941-1942. J Eng Educ 32:317 D '41

SOCIETY of aeronautical weight engineers

Annual meeting, 2d, Chicago, April 27-29. Aviation 41:122 Je '42

SOCIETY of American foresters

Officers. Paper Tr J 113:33 D 25 '41

SOCIETY of American shipbuilders and designers

J. T. Wiseman elected to executive board. Marine Eng 47:103 F '42

SOCIETY of automotive engineers

Annual meeting, Detroit, Jan. 12-16. S A E J 50:sup15-22, sup50-65 F '42; Automotive & Aviation Ind 86:17-21, 33-8 F 1; 34-7+ F 15 '42

National aeronautic meeting, New York, March 12-13. Automotive & Aviation Ind 86:18-25+ Ap 1 '42; S A E J 50:sup22-3, sup33-8 Ap '42

National aircraft production meeting, Los Angeles, Oct. 30-Nov. 1. S A E J 49:sup15-18, 51-8 D '41; Automotive Ind 85:19-23+ N 15 '41; 86:34-5 Ja 15 '42; Aviation 40:113+ D '41

National aircraft production meeting, Los Angeles, Oct. 1-3. S A E J 50:sup36-7, 60-2 N '42; Automotive & Aviation Ind 87:12-14+ O 15 '42; Aviation 41:124-6 N '42

National and West Coast transportation and maintenance meetings, Cleveland and San Francisco. S A E J 49:sup25+ D '41

National fuel and lubricants meeting, Tulsa, Oct. 23-24. S A E J 49:sup24+ D '41

National fuels and lubricants meeting, Tulsa, Oct. 22-23. S A E J 50:sup22, 24+ D '42; Nat Pet N 34:26-7 O 28 '42

President for 1942, councilors, vice presidents; sketches and portraits. S A E J 50:sup23-8 F '42

Reports of committees. S A E J 50:sup38-42 F '42

Section chairmen for 1942-1943; portraits. S A E J 50:sup22-4 S '42

SAE members working on five steel fronts. S A E J 50:sup17-21 Ap '42

SAE section officers, 1942-1943; list. S A E J 50:sup33-4 S '42

SAE War engineering board expands; other war activities. S A E J 50:sup20-4 My '42

SOCIETY of automotive engineers—*Continued*

War transportation and maintenance meeting, New York, Oct. 7-8. S A E J 50:sup34-5, 57-9+ N '42

West coast transportation and maintenance conference, Los Angeles, Aug. 20-22. S A E J 50:sup15-17 O '42

SOCIETY of chemical industry

Annual meeting, 61st. Chem Age (Lond) 47: 49-52 Jl 18 '42; Chem & Ind 61:311 Jl 18 '42

President's address; S.C.I. fifty years ago. W. Cullen. Chem & Ind 61:300-5 Jl 11 '42

Sixty-first annual report of council, 1941-42. Chem & Ind 61:289-93 Jl 4 '42

SOCIETY of dyers and colourists

Annual general meeting, 58th. Soc Dyers & Col J 58:109-16 Je '42

SOCIETY of economic geologists

Abstracts of papers to be presented at 22d annual meeting in conjunction with the Geological society of America, Boston, Dec. 29-31, 1941. Econ Geol 36:839-48 D '41

SOCIETY of economic paleontologists and mineralogists

Annual meeting; symposium on alteration of sediments. Oil & Gas J 40:58-9 Ap 23 '42

SOCIETY of exploration geophysicists

Technical session; abstracts of papers. Oil & Gas J 40:57 Ap 23 '42

SOCIETY of motion picture engineers

Fall convention, New York. Soc Motion Picture Eng J 37:631-8 D '41

Highlights and program of the Hollywood convention. Soc Motion Picture Eng J 38: 559-65 Je '42

Officers and governors; portraits; list of committee members; constitution and by-laws. Soc Motion Picture Eng J 38:374-92 Ap '42

Report of the theater engineering committee. il Soc Motion Picture Eng J 38:74-86 Ja '42

Semi-annual banquet, 50th; awards. Soc Motion Picture Eng J 37:547-56 D '41

SOCIETY of naval architects and marine engineers

Annual meeting, 49th, New York, Nov. 13-14. Marine Eng 46:89-92+ D '41

Spring meeting, Pittsburgh, May 26. Marine Eng 47:104-5+ Je '42

SOCIETY of plastics engineers

Convention, Detroit, Sept. 18. Mod Plastics 20:56-7+ O '42

SOCIETY of the plastics industry

Annual fall meeting, Rye, N.Y. Oct. 12-14. Mod Plastics 19:175, 208 N '41

Annual spring meeting, Hot Springs, Va. May 3-5. Mod Plastics 19:44a-44l My '42; Oil Paint & Drug Rep 141:7+ My 11 '42

Fall convention, Rye, N.Y. Oct. 12-13. Mod Plastics 20:45-50, 116+ N '42

Technical committee

Technical committee program on plastics. Mod Plastics 19:44j-44k My '42

SOCIOLOGY

American scene; an introduction to sociology. I. R. Melbo and others. 559p bibliog(p527-36) $1.96 McGraw-Hill '42

Dimensions of society; a quantitative systematics for the social sciences. S. C. Dodd. 944p bibliog(p923-6) $12 Macmillan '42

Handbook of sociology. E. B. Reuter. 233p $1.25 Dryden press, New York '41

Higher levels of integration. R. W. Gerard. Science 95:309-13 Mr 27 '42

Ideals and illusions. L. S. Stebbing. 206p 8s 6d Watts & co. London '41

Introduction to sociology. J. L. Gillin and J. P. Gillin. 806p $3.75 Macmillan '42

Introduction to sociology; a naturalistic account of man's adjustment to his world. L. L. Bernard. 1041p $3.75 Crowell '42

Living in the social world. J. A. Quinn and A. Repke. 536p $1.92 Lippincott '42

Man and his habitation; a study in social ecology. R. Mukerjee. 320p bibliog(p302-4) $3.50 Longmans '42

Our changing social order. R. W. Gavian, A. A. Gray and E. R. Groves. rev ed 736p $1.88 Heath '41

Proceedings of the Pacific sociological society, thirteenth annual meeting, Dec. 29-30, 1941, held at the University of southern California. P. H. Landis, C. E. Dent and G. E. Hoover, eds. 92p pa 85c State college of Washington, Pullman, Wash. '42

Social implications of vitamins. R. R. Williams. Science 94:471-5, 502-6 N 21-28 '41

Society under analysis; an introduction to sociology. E. Pendell, ed. 711p $4 Jaques Cattell press, Lancaster, Pa. '42

Sociology; a study of society and culture. K. Young. 1005p $4 Am. book co. '42

See also

Cities and towns
Crime and criminals
Economics
Immigration and emigration
Labor and laboring classes
Liquor traffic
Poor relief
Population
Social problems
Socialism
Unemployment

History

History of social thought. P. H. Furfey. 468p bibliog(p406-26) $2.75 Macmillan '42

Social theories of the middle ages, 1200-1500. B. Jarrett. 280p bibliog(p269) $4 Newman bookshop, Westminster, Md. '42

SOCIOLOGY, Christian

Church in the social order; a study of Anglican social theory from Coleridge to Maurice. C. K. Gloyn. 201p bibliog(p185-97) $1.50 Pacific univ, Forest Grove, Ore. '42

Hope of a new world. W. Temple. 125p $1.35 Macmillan '42

No sign shall be given. H. S. Tigner. 198p $1.75 Macmillan '42

SOCIOLOGY, Comparative

Biological symposia; v. 8, Levels of integration in biological and social systems. R. Redfield, ed. 240p $2.50 Jaques Cattell press, Lancaster, Pa. '42

SOCIOLOGY, Rural

Adjustment of population to rural resources in Missouri. C. E. Lively. maps J Land & Pub Util Econ 18:67-76 F '42

Better rural communities; community aspects of rural life in the South. P. W. Chapman. 237p 84c Textbook division, Science research associates, Chicago '41

Labor under the Farm Security program. F. E. Parker. Monthly Labor R 53:1368-87 D '41

Participation in rural life. M. B. Young. 43p pa 15c Pendle Hill, Wallingford, Pa. '42

Rural America today; its schools and community life. G. A. Works and S. O. Lesser. 450p $3.75 Univ. of Chicago press '42

Rural relief in Illinois, a study of home assistance in thirteen counties. D. E. Lindstrom and I. D. Johns. Ill U (Urbana) Agric Exp Sta Bul 480:395-440 '41

Rural sociology and rural social organization. D. Sanderson. 806p $4 Wiley '42

Spending and saving of the nation's families in wartime. A. C. Hanson and J. Cornfield. Monthly Labor R 55:700-13 O '42

Training and recruiting of personnel in the rural social studies. T. W. Schultz and L. W. Witt. 340p $3 Am. council on education, Washington, D.C. '41

SOCONY-VACUUM oil company

Annual report. Comm & Fin Chr 155:1417-18 Ap 6 '42

Socony-Vacuum; fights the war from Kokomo (Ind.) to Kirkuk (Iraq). il Fortune 26:110-15+ N '42

Who's who in refining. Oil & Gas J 40:58 Ap 9 '42

SOD oil. See Degras

SODA

Manufacture of soda, with special reference to the ammonia process. T. Hou. 2d ed rev & enl 590p bibliog(p572) $9.50 Reinhold pub. corp. '42

See also

Sodium carbonates
Sodium hydroxide

SODA ash

Alkalis and chlorine, 1941. Chem & Met Eng 49:84-6 F '42

SODA ash—*Continued*
Ammonia-soda process; flow sheet. il Chem & Met Eng 49:134-7 F '42
Cast iron borings for steel surface protection. D. L. Ellis and J. F. Oesterle. il Iron Age [illegible]-9 Jl 30 '42
Desulphurizing at the blast furnace. G. S. Evans. diags Iron Age 149:46-7 Ap 30 '42
Desulphurizing pig iron; report of German research. il Iron Age 149:45-8 Ap 9 '42
Effect of steam and hot water with soda ash and a wetting agent on properties of clay. H. G. Schurecht, J. F. McMahon and C. M. Lampman. il Am Cer Soc J 25:346-51 Ag 1 '42
Gypsum in the sulphate recovery process. T. T. Collins, jr, H. J. Hotz and E. Wiberg. bibliog Paper Tr J 114:39-41 My 7 '42
Recent developments in desulphurizing cast iron. G. S. Evans. il Steel 110:82, 84, 88+ My 25 '42
Saga of salt; Mathieson alkali works. flow charts il Chem Ind 50:184-93 F '42
Soda-ash feed problem and a solution. E. A. Dyer. Water Works & Sewerage 89:377 S '42
Sodium carbonate. C. L. Harness and A. T. Coons. U S Bur Mines Information Circ [illegible] '42
Twenty years progress in alkali technology. D. Aronson. il Chem Ind 50:324-31 Mr '42
Use of soda ash in structural clay; abstract. H. W. Harrington. Brick & Clay Rec 100:34 My '42
Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42
See also
Trona

SODA fountains
First annual soda fountain handbook. M. Parks, ed. management ed 184p pa $1 Hearst magazines, 572 Madison av, New York '42
Sanitation and bacteriology of public eating utensils; an investigation of public eating and drinking establishments in Providence, R.I. M. P. Horwood and P. J. Pesare. Pub Health Rep 57:33-44 Ja 9 '42

SODAMIDE. See Sodium amide

SODIUM
Action of sodium on hexamethylacetone. P. G. Stevens and J. H. Mowat. bibliog Am Chem Soc J 64:554-6 Mr '42
Condensations by sodium; n-octyl- and n-decylsodium. A. A. Morton, J. B. Davidson and R. J. Best. bibliog Am Chem Soc J 64:2239-40 O '42
Condensations by sodium; reactions of amylsodium with naphthalene, acenaphthene and decalin. A. A. Morton and others. bibliog Am Chem Soc J 64:2250-3 O '42
Condensations by sodium; the general theory of the Wurtz reaction; the second phase. A. A. Morton, J. B. Davidson and B. L. Newey. bibliog diags Am Chem Soc J 64:2240-2 O '42
Condensations by sodium; the general theory of the Wurtz reaction; the second phase. A. A. Morton, J. B. Davidson and B. L. Hakan. bibliog Am Chem Soc J 64:2242-7 O '42
Condensations by sodium; the pyrolysis of amylsodium. A. A. Morton and H. A. Newey. bibliog Am Chem Soc J 64:2247-50 O '42
Mechanism of processes initiated by excited atoms; the quenching of excited sodium. K. J. Laidler. bibliog J Chem Phys 10:34-42 Ja '42
Sodium-hydrogen Geissler tube. F. M. Goyan. bibliog diag Ind & Eng Chem Anal ed 14:60-1 Ja 15 '42
Total secondary electron emission from thin films of sodium on tungsten. K. G. McKay. bibliog diags Phys R 61:708-13 Je 1 '42

Analysis

Determination of sodium by the uranyl zinc acetate method; TAPPI tentative standard T 623 m-42. Paper Tr J 115:31-2 Ag 20 '42
Electrochemical properties of mineral membranes; beidellite membranes and the determination of sodium. C. E. Marshall and C. A. Krinbill. bibliog Am Chem Soc J 64:1814-19 Ag '42
Polarographic determination of potassium, sodium, and lithium. I. Zlotowski and I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:473-7 Je 15 '42
Rapid determination of sodium in waters and soil extracts; abstract. D. R. McCormick and W. E. Carlson. Am Water Works Assn J 34:1458 S '42

Isotopes

Gamma-rays from Na^{24}. C. E. Mandeville. bibliog diag Phys R 62:309-12 O 1 '42
Thick-target yield of Na^{24} under deuteron bombardment. C. L. Bailey and J. H. Williams. bibliog Phys R 61:539 Ap 1 '42

SODIUM acetate
Molal volumes of solutes; sodium acetate and acetic acid. O. Redlich and L. E. Nielsen. Am Chem Soc J 64:761-2 Ap '42
Oxalic acid from sawdust; continuous fusion process. D. F. Othmer, J. J. Jacobs, jr, and A. C. Pabst. flow sheet il diags Ind & Eng Chem 34:268-73 Mr '42
Oxalic acid from sawdust; recovery of products resulting from treatment of wood with caustic. D. F. Othmer and R. H. Royer. bibliog flow sheet diags Ind & Eng Chem 34:274-9 Mr '42
Preventing spoilage by mold and bacteria. E. F. Glabe. il Food Ind 14:46-8 F '42

SODIUM aluminate
Rosin-size precipitation and its effect on the sizing and strength properties of paper. W. P. Dohne and C. E. Libby. bibliog Paper Tr J 113:138-44 N 27 '41

SODIUM amalgams
Rare-earth metal amalgams; the reaction between sodium amalgam and rare-earth acetate and chloride solutions. J. K. Marsh. Chem Soc J p398-401 Je '42
Rare-earth metal amalgams; the separation of neodymium, samarium, and gadolinium. J. K. Marsh. Chem Soc J p523-6 Ag '42

SODIUM amide
Direct diazotization of nitrobenzene. F. W. Bergstrom and J. S. Buehler. bibliog Am Chem Soc J 64:19-21 Ja '42

SODIUM amytal
Studies on the mechanism of carbon monoxide poisoning as observed in dogs anesthetized with sodium amytal. W. F. von Oettingen and others. (Pub. health bul. 274) 50p bibliog(p50) U.S. Public health service, Washington; pa 10c Supt. of doc '41

SODIUM carbonates
Absorption of chemicals from neutral sodium sulphite liquor by sweetgum chips. J. N. McGovern, J. N. Evert and G. H. Chidester. Paper Tr J 113:27-31 D 4 '41
Oxalic acid from sawdust; recovery of products resulting from treatment of wood with caustic. D. F. Othmer and R. H. Royer. bibliog flow sheet diags Ind & Eng Chem 34:274-9 Mr '42
Solubility of nickel ions in aqueous alkaline carbonate-tungstate solutions. M. L. Holt and D. A. Swalheim. bibliog Electrochem Soc Trans 81 (preprint 2):11-25 Ap '42
Solubility of sodium carbonate in fused sodium hydroxide. R. P. Seward. Am Chem Soc J 64:1053-4 My '42
See also
Soda ash

Analysis

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42
Spectrochemical analysis of alkali products. E. A. Boettner. il Ind & Eng Chem Anal ed 13:861-4 D 15 '41

Manufacture

Developments in Lake Texcoco; Caracol process produces salt and other sodium compounds, potash, etc. A. R. Gerstel. il Chem & Eng N 20:1300-2 O 25 '42

SODIUM carbonates—Manufacture—*Continued*

Electrolytic decomposition of aqueous ammonium chloride solutions. C. B. F. Young and E. G. Lundstrom. il diag Electrochem Soc Trans 81 (preprint 33):469-77 Ap '42

Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

SODIUM carboxymethylcellulose

Chemical and physical properties of carboxymethylcellulose and its salts. C. J. Brown and A. A. Houghton. Soc Chem Ind J 60:254-8 O '41

SODIUM chlorate

Electrolytic sodium chlorate; preparation from aqueous sodium chlorid. S. S. Joshi and K. Srinivasan. Chem Age (Lond) 46: 305 Je 20 '42

Sodium chlorate imports and production in the United States. For Comm W 5:20 D 20 '41

SODIUM chloride. See Salt

SODIUM chlorite

Chemistry of chlorites. J. F. White, M. C. Taylor and G. P. Vincent. bibliog(57 references) il Ind & Eng Chem 34:782-92 Jl '42

Sodium chlorite in the bleaching of pulp; abstract. G. Jayme and S. Mo. Paper Ind 23:948 D '41

Use of chlorites for treating raw sugars. H. S. Isbell. J Research Nat Bur Stand 27: 491-7 D '41

SODIUM chromate

Chromate corrosion inhibitors in bimetallic systems; compared by a scoring method based on visual observations. M. Darrin. bibliog il Ind & Eng Chem Anal ed 13: 755-9 N 15 '41

Dermatitis occurring among operators of air conditioning equipment. L. Schwartz and J. E. Dunn. Ind Med 11:375-8 Ag '42

Determination of sulfate in the presence of chromate. W. B. Meldrum, W. E. Cadbury, jr. and W. W. Lucasse. Ind & Eng Chem Anal ed 13:456-7 Jl 15 '41; Same. Metal Finishing 40:595-6 N '42

See also

Sodium dichromate

SODIUM compounds

Anhydrous sodium soaps; heats of transition and classification of the phases. R. D. Vold. diag Am Chem Soc J 63:2915-24 N '41

Condensations by sodium; *n*-octyl- and *n*-decylsodium. A. A. Morton, J. B. Davidson and R. J. Best. bibliog Am Chem Soc J 64:2239-40 O '42

Condensations by sodium; reactions of amylsodium with naphthalene, acenaphthene and decalin. A. A. Morton and others. bibliog Am Chem Soc J 64:2250-3 O '42

Condensations by sodium; the general theory of the Wurtz reaction; the initial step. A. A. Morton, J. B. Davidson and H. A. Newey. bibliog diags Am Chem Soc J 64: 2240-2 O '42

Condensations by sodium; the general theory of the Wurtz reactions; the second phase. A. A. Morton, J. B. Davidson and B. L. Hakan. bibliog Am Chem Soc J 64:2242-7 O '42

Condensations by sodium; the pyrolysis of amylsodium. A. A. Morton and H. A. Newey. bibliog Am Chem Soc J 64:2247-50 O '42

Effect of salts on the mutual miscibility of normal butyl alcohol and water. L. A. Reber, W. M. McNabb and W. W. Lucasse. bibliog J Phys Chem 46:500-15 Ap '42

Formation of cyclopropanes from monohalides; action of sodium alkyls on aliphatic chlorides; relation to the Wurtz reaction. F. C. Whitmore and H. D. Zook. bibliog Am Chem Soc J 64:1783-5 Ag '42

Kinetic study of the reactions of *n*-butyl bromide with the sodium salts of phenol, thiophenol and *n*-butyl mercaptan. O. R. Quayle and E. E. Royals. bibliog Am Chem Soc J 64:226-30 F '42

Sodium salt of quinizarin-6-sulfonic acid as an acid-base indicator. J. H. Green. Ind & Eng Chem Anal ed 14:249 Mr 15 '42

Some pharmacological properties of the tergitol penetrants. H. F. Smyth, jr, J. Seaton and L. Fischer. bibliog J Ind Hygiene 23: 478-83 D '41

Studies in biological methylation; the action of scopulariopsis brevicaulis and certain penicillia on salts of aliphatic seleninic and selenonic acids. M. L. Bird and F. Challenger. Chem Soc J p574-7 S '42

See also

Bunte salts

Analysis

Determination of sodium by the uranyl zinc acetate method: TAPPI tentative standard T 623 m-42. Paper Tr J 115:31-2 Ag 20 '42

Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42

SODIUM cyanide

Imports of sodium cyanide into the United States; its uses. For Comm W 5:20 D 20 '41

Analysis

Cyanide determination in casehardening salts. C. W. Studer. Mach 48:150-1 D '41

SODIUM dichromate

Chromate corrosion inhibitors in bimetallic systems; compared by a scoring method based on visual observations. M. Darrin. bibliog il Ind & Eng Chem Anal ed 13: 755-9 N 15 '41

Dermatitis occurring in a woolen mill. L. Schwartz and J. E. Dunn. Ind Med 11:432-5 S '42

Specific gravity of sodium dichromate solutions. D. F. Altimier. Am Chem Soc J 64:175-6 Ja '42

SODIUM diphenylhydantoinate

Sodium diphenylhydantoinate and experimental epilepsy. H. Moussatché. bibliog Science 95:106 Ja 23 '42

SODIUM enolates

Condensations; various acylations and alkylations of the sodium enolates of aliphatic esters; methods for the syntheses of α,α-disubstituted β-keto esters and of certain other compounds. B. E. Hudson, jr. and C. R. Hauser. bibliog Am Chem Soc J 63:3156-62 N '41

SODIUM ethoxide

Exchange reactions of 4-nitro-1-naphthyl methyl ether and 4-nitro-1-naphthyl ethyl ether with sodium ethoxide and methoxide respectively, and the reduction of certain 1-nitronaphthalene derivatives. H. H. Hodgson and J. Habeshaw. Chem Soc J p45-7 Ja '42

Studies of ionisation in non-aqueous solvents; the formation of certain methoxides and ethoxides in methyl and in ethyl alcohol. W. L. German and T. W. Brandon. Chem Soc J p526-8 Ag '42

SODIUM ferrocyanide

Ferrocyanide method for separation of hafnium from zirconium. W. C. Schumb and F. K. Pittman. Ind & Eng Chem Anal ed 14:512-15 Je 15 '42

SODIUM fluocolumbate

Formation of complex fluorides in anhydrous liquid hydrogen fluoride; sodium fluocolumbates. A. W. Laubengayer and C. G. Polzer. bibliog Am Chem Soc J 63:3264-6 D '41

SODIUM fluoride

Sodium fluoride. bibliog il Soap & San Chem 18:90-3 Ap '42

SODIUM formate

Oxalic acid from sawdust; continuous fusion process. D. F. Othmer, J. J. Jacobs, jr. and A. C. Pabst. flow sheet il diags Ind & Eng Chem 34:268-73 Mr '42

Oxalic acid from sawdust; recovery of products resulting from treatment of wood with caustic. D. F. Othmer and R. H. Royer. bibliog flow sheet diags Ind & Eng Chem 34:274-9 Mr '42

SODIUM halides

Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

SODIUM hexametaphosphate

Corrosion control with calgon at Thomaston; abstract. E. Thompson. Water Works & Sewerage 88:495-6 N '41

Effect of small concentrations of hexametaphosphate on iron oxide surfaces. F. Hazel. bibliog J Phys Chem 46:516-24 Ap '42

Effect of sodium hexametaphosphate on the solution of lead. E. W. Moore and F. E. Smith. diag Am Water Works Assn J 34:1415-24 S '42

Experiences with calgon treatment at Bristol, Conn. I. L. Newell. Water Works & Sewerage 89:269-70 Je '42

Recent developments in the use of hexametaphosphate in water treatment. O. Rice. diag N E Water Works Assn J 56:84-98 Mr '42; Abstract. Water Works & Sewerage 88:504 N '41; Discussion. E. W. Moore. N E Water Works Assn J 56:99-101 Mr '42

Scale removed from pipe by simple treatment; use of sodium hexametaphosphate and alkaline quebracho tannin; line carrying salt water for disposal. H. F. Simons. diag Oil & Gas J 40:29-30 Ap 16 '42

Study of solubility of two lead salts in dilute solutions with special reference to the lead hazard in drinking water. C. C. Ruchhoft and J. F. Kachmar. Am Water Works Assn J 34:85-93 Ja '42

Threshold treatment for scale prevention; calgon treatment. Engineering 152:467-8 D 12 '41

SODIUM hydrosulfide. See Sodium sulfides

SODIUM hydrosulfite. See Sodium hyposulfite

SODIUM hydroxide

Adsorption by strontium salts of traces of iron from caustic soda solutions. W. E. Caldwell and C. A. Boyd. bibliog Ind & Eng Chem 34:230-3 F '42

Alkaline purification of cellulose. G. Goldfinger and H. Mark. bibliog Paper Tr J 115:27-9 O 15 '42

Aluminum-magnesium alloys resist attack. L. J. Benson and R. B. Mears. bibliog Chem & Met Eng 49:88-91 Ja '42

Assay of benzaldehyde; use of hydroxylammonium sulfate and aqueous sodium hydroxide. M. Schubert and J. G. Dinkelspiel. bibliog Ind & Eng Chem Anal ed 14:154-5 F 15 '42

Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42

Desulphurizing at the blast furnace. G. S. Evans. diags Iron Age 149:45-7 Ap 30 '42

Intercrystalline cracking in boiler plates; exposure of iron and steel specimens to sodium hydroxide solutions at high temperature and pressure. F. Adcock and A. J. Cook. diags Iron & Steel Inst J 143:117-33, pl 15-18 no 1 '41

Intercrystalline cracking in boiler plates; prolonged-stress tests on iron and steel specimens immersed in hot sodium hydroxide solutions. C. H. M. Jenkins and F. Adcock. diags Iron & Steel Inst J 143:102-16, pl 12-14 no 1 '41

Intercrystalline cracking in boiler plates; some experiments on the behaviour of specimens of boiler plate and boiler joints subjected to slow cycles of repeated bending stresses while immersed in a boiling aqueous solution. H. J. Gough and H. V. Pollard. diags Iron & Steel Inst J 143:136-58, pl 21-7 no 1 '41

Naphtha treating pays its way. C. F. Mason, R. D. Bent and J. H. McCullough. il diag Am Pet Inst Proc 22(3):45-9 '41; Same. Oil & Gas J 40:114, 116+ N 6 '41; Discussion. Am Pet Inst Proc 22(3):49-51 '41

Oxalic acid from sawdust. D. F. Othmer and others. bibliog flow sheets il diags Ind & Eng Chem 34:262-79 Mr '42

Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

Reaction velocities at low temperatures; the ionisation of nitroethane at temperatures between -32° and +20°. R. P. Bell and A. D. Norris. Chem Soc J p854-6 D '41

Solubility of sodium carbonate in fused sodium hydroxide. R. P. Seward. Am Chem Soc J 64:1053-4 My '42

Specific heats and heats of dilution of concentrated sodium hydroxide solutions. H. R. Wilson and W. L. McCabe. bibliog il diags charts Ind & Eng Chem 34:558-66 My '42

Twenty years' progress in alkali technology. D. Aronson. il Chem Ind 50:324-31 Mr '42

Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

Vapor pressure nomographs for aqueous sodium hydroxide solutions. D. S. Davis. Ind & Eng Chem 34:1131-2 S '42

See also

Mercerizing

Analysis

Spectrochemical analysis of alkali products. E. A. Boettner. il Ind & Eng Chem Anal ed 13:861-4 D 15 '41

Manufacture

Ammonia-soda process; flow sheet. il Chem & Met Eng 49:134-7 F '42

Developments in Lake Texcoco; Caracol process produces salt and other sodium compounds, potash, etc. A. R. Gerstel. il Chem & Eng N 20:1300-2 O 25 '42

Hamilton Young Castner (1858-99); a forgotten pioneer of the aluminum industry. V. H. Lord. por(bronze tablet, front) J Chem Educ 19:353-6 Ag '42

Saga of salt; Mathieson alkali works. flow charts il Chem Ind 50:184-93 F '42

Statistics

Alkalis and chlorine, 1941. Chem & Met Eng 49:84-6 F '42

SODIUM hypochlorite

Control of pH in hypochlorite solutions. B. P. Ridge and A. H. Little. bibliog Textile Inst J 33:T33-58, T59-74 Ap-My '42

Hypochlorite deterioration; abstract. E. M. Pein and L. W. Rising. Soap & San Chem 18:71 N '42

Mill-made chlorine bleach; electrolytic equipment. il Textile World 92:70 O '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

Testing vat dyed cotton for fastness to hypochlorite bleaching. Am Dyestuff Rep 30:682-9 D 8 '41

SODIUM hyposulfite

Device for the preparation of hydrosulfite solutions for gas analysis. L. G. Wesson. Science 94:546 D 5 '41

Evaluation of hydrosulphites. Soc Dyers & Col J 58:219-20 O '42

SODIUM iodide

Exchange reaction between simple alkyl iodides and iodide ion. H. Seelig and D. E. Hull. bibliog diags Am Chem Soc J 64:940-8 Ap '42

SODIUM lauryl sulfate

Conductometric assay of inorganic salt in the presence of wetting agents. J. H. Percy and C. J. Arrowsmith. bibliog Ind & Eng Chem Anal ed 14:151-3 F 15 '42

Effect of surface-active agents on electroörganic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46:42-51 Ja '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:58 Je 8; 44 Je 15 '42

SODIUM malonic ester

Reaction between quinones and enolates; dibromo-*o*-xyloquinone and sodium malonic ester. L. I. Smith and F. L. Austin. bibliog Am Chem Soc J 64:528-33 Mr '42

SODIUM metaphosphate

See also
Sodium hexametaphosphate

Analysis

Colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in the presence of metaphosphate and pyrophosphate. H. E. Wirth. Ind & Eng Chem Anal ed 14:722-5 S 15 '42

SODIUM methoxide

Exchange reactions of 4-nitro-1-naphthyl methyl ether and 4-nitro-1-naphthyl ethyl ether with sodium ethoxide and methoxide respectively, and the reduction of certain 1-nitronaphthalene derivatives. H. H. Hodgson and J. Habeshaw. Chem Soc J p45-7 Ja '42

Studies of ionisation in non-aqueous solvents; the formation of certain methoxides and ethoxides in methyl and in ethyl alcohol. W. L. German and T. W. Brandon. Chem Soc J p526-8 Ag '42

Synthesis of methyl α-methoxyacrylate and α-methoxyacrylonitrile; characterisation of methoxy-derivatives of propionic acid. J. W. Baker. Chem Soc J p520-2 Ag '42

SODIUM methylate

New acid synthesis; the effect of hindrance; methyl tertiary-butyl- and methylethylpropylacetic acids. J. G. Aston and others. Am Chem Soc J 64:300-2 F '42

SODIUM naphthenate

Naphthenic acids; manufacture, properties, and uses; patents. E. R. Littmann and J. R. M. Klotz. Chem R 30:97-111 bibliog(p107-11) F '42

SODIUM nitrate

Chile's white gold stages a comeback. K. Falk. il For Comm W 8:3-7, 30-1 S 5 '42; Excerpts. Oil Paint & Drug Rep 142:3+ S 7 '42

Effect of admixtures on portland cement. C. H. Jumper and G. Kalousek. Rock Prod 45:28-9 My '42

Mining tour of South America; nitrate operations on the Chilean pampas. J. B. Huttl. flow sheet il Eng & Min J 143:50-1 My '42

Physiographic setting of the nitrate deposits of Tarapacá, Chile; its bearing on the problem of origin and concentration. J. L. Rich. il maps Econ Geol 37:188-214 My '42

System sodium nitrate-dioxane-water at 25°. B. Selikson and J. E. Ricci. bibliog Am Chem Soc J 64:2474-6 O '42

Two Guggenheim plants work the nitrate deposits in Chile; illustrations. News Ed 19:1416-17 D 10 '41

Analysis

Colorimetric determination of low concentrations of sodium nitrate in sodium nitrite. W. Seaman and others. bibliog Ind & Eng Chem Anal ed 14:420-2 My 15 '42

Methods for determination of sodium nitrate. W. C. Schroeder and A. A. Berk. il In U S Bur Mines Bul 443:82-4 '41

SODIUM nitrite

Decomposition of arylazo-β-naphthylamines by sodium nitrite and glacial acetic acid. H. H. Hodgson and C. K. Foster. bibliog Chem Soc J p30-3 Ja '42

Nitrite of soda: a corner-stone of textile chemistry. J. Warwicke. Textile Col 64:407-9 Ag '42

Nitrous acid as a nitrating and oxidising agent; reactions with the four 3-halogenodimethylanilines. H. H. Hodgson and D. E. Nicholson. Chem Soc J p766-70 N '41

Analysis

Colorimetric determination of low concentrations of sodium nitrate in sodium nitrite. W. Seaman and others. bibliog Ind & Eng Chem Anal ed 14:420-2 My 15 '42

SODIUM oleate

Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

SODIUM oxalate

Oxalic acid from sawdust; continuous fusion process. D. F. Othmer, J. J. Jacobs, jr. and A. C. Pabst. flow sheet il diags Ind & Eng Chem 34:268-73 Mr '42

Oxalic acid from sawdust; recovery of products resulting from treatment of wood with caustic. D. F. Othmer and R. H. Royer. bibliog flow sheet diags Ind & Eng Chem 34:274-9 Mr '42

SODIUM oxides

Removing alkalis by heating with admixtures. H. Woods. Rock Prod 45:66-8 F '42

Structure of sodium borate glasses as affected by temperature. A. E. Badger, H. C. Johnson and J. O. Kraehenbuehl. bibliog il diag Am Cer Soc J 25:395-401 O 1 '42

See also
Sodium peroxide

Analysis

Determining sodium and potassium oxides in portland cement. W. C. Hanna, L. N. Bryant and T. A. Hicks. Concrete (mill sec) 50:159-60 Ap '42

Proposed revision of tentative methods of chemical analysis of cement. Concrete (mill sec) 50:203-4 Jl '42

SODIUM palmitate

Solubility of sodium palmitate in organic liquids. C. W. Leggett, jr., R. D. Vold and J. W. McBain. bibliog J Chem Phys 46:429-40 Mr '42; Abstract. Soap & San Chem 18:57 Ag '42

SODIUM pantothenate

Preparation and properties of sodium *d*-pantothenate. H. C. Parke and E. J. Lawson. Am Chem Soc J 63:2869-71 N '41

SODIUM pentachlorophenate

Organic fouling of cooling water; treatment with sodium pentachlorphenate; abstract. F. J. Matthews. Chem Age (Lond) 45:258 N 15 '41

Toxicity of sodium pentachlorophenate and pentachlorophenol to fish. C. J. Goodnight. bibliog Ind & Eng Chem 34:868-72 Jl '42

SODIUM perborate

New base for the protective ointment for the prevention of poison ivy dermatitis. L. Schwartz, J. E. Dunn and F. H. Goldman. Pub Health Rep 57:578-88 Ap 17 '42

Perborate formation at a rotating anode. J. L. Culbertson and W. C. Teach. Electrochem Soc Trans 81 (preprint 4):33-9 Ap '42

Sodium perborate as a replacement for sodium peroxide in the chemical laboratory. C. F. H. Allen and J. H. Clark. J Chem Educ 19:72 F '42

SODIUM peroxide

Improved semimicrodetermination of sulfur in organic materials; peroxide-carbon fusion followed by a titration using tetrahydroxyquinone indicator. J. F. Mahoney and J. H. Michell. bibliog Ind & Eng Chem Anal ed 14:97-8 Ja 15 '42

Nickel, monel and inconel in textile bleaching operations. il Am Dyestuff Rep 31:446-8, 460-2 S 14 '42

SODIUM persulfate

Photolysis of persulfate. L. J. Heidt. bibliog J Chem Phys 10:297-302 My '42

SODIUM phenolate

Kinetic study of the reactions of *n*-butyl bromide with the sodium salts of phenol, thiophenol and *n*-butyl mercaptan. O. R. Quayle and E. E. Royals. bibliog Am Chem Soc J 64:226-30 F '42

SODIUM phosphates

Micromet for scale prevention and corrosion control in small water systems; glassy sodium phosphate. Water Works & Sewerage 89:insert 123 Je '42

Phosphates in water conditioning. C. Schwartz and C. J. Munter. bibliog(97 references) Ind & Eng Chem 34:32-40 Ja '42

See also
Sodium hexametaphosphate
Sodium pyrophosphate

SODIUM plumbite

See also
Doctor solution

SODIUM pyrophosphate

Recent developments in the phosphate field; with reference to patents. H. W. Easterwood. bibliog il Ind & Eng Chem 34:15 Ja '42

Analysis

Colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in the presence of metaphosphate and pyrophosphate. H. E. Wirth. Ind & Eng Chem Anal ed 14:722-5 S 15 '42

SODIUM pyruvate

Preparation of sodium pyruvate. W. V. Robertson. Science 96:93-4 Jl 24 '42

SODIUM rhodizonate

Analytical use of sodium rhodizonate. F. Feigl and H. A. Suter. bibliog Ind & Eng Chem Anal ed 14:840-2 O 15 '42

SODIUM salicylate

Heats of organic reactions; the reaction between methemoglobin and salicylate. R. M. Roberts. bibliog Am Chem Soc J 64:1472-5 Je '42

SODIUM silicates

Action of sodium silicate on manganous salts in solution. E. A. Dancaster. Chem Soc J p581 S '42

Constitution of sodium silicate solutions; abstract. R. C. Ray, P. B. Ganguly and A. B. Lal. Chem & Met Eng 49:166-7 Ag '42

Evaluation of a surface active agent for metal cleaning; Nacconol NR alone and with alkalies. O. M. Morgan and J. G. Lankler. il Ind & Eng Chem 34:1158-61 O '42

Liquid glass and solid solutions. C. H. Jeglum. il J Chem Educ 19:239-43 My '42

Recovering slime cassiterite by soap flotation; Pirquitas plant, in Argentina. E. Oberbillig and E. P. Frink. Eng & Min J 142:54-7 D '41

Silicates of soda in pulp bleaching and other paper mill uses. C. H. Jeglum. il Paper Ind 24:150-1 My '42

South District filtration project, Chicago; water-conditioning processes; development of new sodium silicate process. il Eng N 128:1008-10 Je 18 '42

Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

SODIUM silicofluoride

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:34 O 12 '42

SODIUM stearate

Value of silicate of soda as a detergent. H. L. Bolton. bibliog il Ind & Eng Chem 34:737-41 Je '42

SODIUM sulfates

Conductometric assay of inorganic salt in the presence of wetting agents. J. H. Percy and C. J. Arrowsmith. bibliog Ind & Eng Chem Anal ed 14:151-3 F 15 '42

Determination of sulfur; accuracy and precision of several methods. W. Rieman, 3d and G. Hagen. Ind & Eng Chem Anal ed 14:150-1 F 15 '42

Interphase evaporation of sodium sulfate solutions; Glauber salt deposits in North Dakota. R. F. Schultz and I. Lavine. flow sheet bibliog il diag Ind & Eng Chem 34:59-64 Ja '42

Relationship of the garnet-hydrogarnet series to the sulfate resistance of portland cements. E. P. Flint and L. S. Wells. bibliog J Research Nat Bur Stand 27:171-80 Ag '41; Same. Concrete (mill sec) 49:253-5; 50:161-2 O '41, Ap '42

See also
Paper making—Sulfate process
Sodium persulfate
Sodium thiosulfate
Tergitols

Analysis

Determination of sulfate in the presence of chromate. W. B. Meldrum, W. E. Cadbury, jr. and W. W. Lucasse. Ind & Eng Chem Anal ed 13:456-7 Jl 15 '41; Same. Metal Finishing 40:595-6 N '42

Manufacture

Chlorine and salt cake from salt and sulfur. A. W. Hixson and A. H. Tenney. bibliog diags Ind & Eng Chem 33:1472-84 D '41

Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42

SODIUM sulfides

Causticizing, reburning, and settling in sulphate lime recovery. G. B. Hughey, L. K. Herndon and J. R. Withrow. bibliog Paper Tr J 114:25-32 F 26 '42

Sodium hydrosulphide as a pulping agent. M. A. Buchanan and C. M. Koon. Paper Tr J 115:116 O 1 '42

Use of gypsum in the kraft process. O. Kress and W. H. Aiken. bibliog Paper Tr J 113:41-4 N 13 '41

Analysis

Titration of soluble sulphides. G. Spencer. Soc Chem Ind J 61:132 Ag '42

SODIUM sulfites

Absorption of chemicals from neutral sodium sulphite liquor by sweetgum chips. J. N. McGovern, J. N. Evert and G. H. Chidester. Paper Tr J 113:27-31 D 4 '41

Determination of vitamin B_1 by yeast fermentation method; improvements related to use of sulfite cleavage and a new fermentometer. A. S. Schultz, L. Atkin and C. N. Frey. bibliog il Ind & Eng Chem Anal ed 14:35-9 Ja 15 '42

Free-cutting steels; introduction of anhydrous sulphite. E. L. Ramsey and L. G. Graper. Chem Age (Lond) 47:301 O 3 '42

Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42

Interaction of betaine with primary aromatic amines, organic disulphides, and sodium sulphite. F. Challenger, P. Taylor and B. Taylor. Chem Soc J p48-55 Ja '42

Review of methods used to reduce internal corrosion of gasoline pipe lines. W. A. Schulze, L. C. Morris and R. C. Alden. Am Pet Inst Proc 22(4):23-4 '41; Same. Oil & Gas J 40:172-3 N 6 '41

Analysis

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42

SODIUM sulfonates

See also
Nacconol NR

SODIUM thienylbarbital

5-Ethyl-5-(α-thienyl)-barbituric acid. F. F. Blicke and M. F. Zienty. bibliog Am Chem Soc J 63:2945-6 N '41

SODIUM thiosulfate

Athlete's foot control; report on the efficacy of the sodium thiosulfate footbath. C. Weirich and R. Pokoruy. il Soap & San Chem 18:97, 99+ Mr '42

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

Electrodeposition of silver from thiosulphate solutions. R. Weiner. Metal Finishing 40:74-5+ F '42

Single metal, binary and ternary alloy deposition from thiosulfate solutions; binary alloy deposition of copper-nickel, copper-cadmium and copper-zinc alloys from thiosulfate solutions. D. C. Gernes and G. H. Montillon. Electrochem Soc Trans 81 (preprint 20):297-315 Ap '42

SODIUM thiosulfate—*Continued*

Standardization and stability of 0.1 *N* sodium thiosulfate solutions in hot weather. S. O. Rue. bibliog Ind & Eng Chem Anal ed 14:802-5 O 15 '42

Standardisation of sodium thiosulphate with potassium dichromate. B. D. Sully. Chem Soc J p366-8 My '42

Analysis

Determination of thiosulfate in used doctor solution. K. Uhrig and H. Levin. bibliog Ind & Eng Chem Anal ed 14:547-8 Jl 15 '42

Quantitative tests for residual hypo; application for quantity production enlargements. E. Cary and A. H. Wheeler. il Am Phot 36:16-18 F '42

SODIUM triphenylmethyl

Determination of the bridge structure of dipyrrylmethanes; a new method for the estimation of active hydrogen. A. H. Corwin and R. C. Ellingson. bibliog diags Am Chem Soc J 64:2098-106 S '42

SODIUM tungstate

Electrodeposition of nickel-tungsten alloys from an acid plating bath. M. L. Holt and M. L. Nielsen. il Electrochem Soc Trans 82 (preprint 3):21-31 O '42

SODIUM vapor electric lamps. See Electric lamps, Sodium vapor

SOFT drinks. See Beverages

SOFTENING agents

Perbunan properties and compounding. R. A. Moll, R. M. Howlett and D. J. Buckley. bibliog Ind & Eng Chem 34:1287-90 N '42

Tertiary base textile softeners. A. J. Hall. Textile Col 64:224-6 My '42

What you can use; softeners for rubber. Oil Paint & Drug Rep 141:71 Je 15; 34 Je 22; 66 Je 29 '42

Analysis

Analysis of cation-active softening agents. D. Geltner and W. W. Razim. Am Dyestuff Rep 31:409-12 Ag 17 '42

SOFTENING points

Transition temperature and cubical expansion of plastic materials. F. E. Wiley. bibliog il diag Ind & Eng Chem 34:1052-6 S '42

SOIL analysis

Colorimetric determination of phosphorus in soils; provision for eliminating the interference of arsenic. M. S. Sherman. bibliog Ind & Eng Chem Anal ed 14:182-5 F 15 '42

Colorimetric determination of readily soluble phosphate in soils. E. G. Williams and A. B. Stewart. Soc Chem Ind J 60:291-7 N '41

Glass guns for victory; soil testing in gardens and on farms. A. H. Carhart. il Sci Am 166:188-9 Ap '42

Spectrochemical method for the determination of boron in synthetic mixtures of soil materials. R. Q. Parks. bibliog Opt Soc Am J 32:233-7 Ap '42

Mechanical analysis

Bituminous treatment of sandy soil roads in Nebraska. P. F. Critz and C. M. Duff. il Pub Roads 22:215-30 D '41

Simple method for mechanical analysis of soils. Roads & Bridges 80:100+ F '42

Soil classification and its bearing on soil stabilization. A. H. D. Markwick. bibliog Inst Pet J 27:313-28; Discussion. 344-7 O '41

SOIL bacteriology

Bacterial growth factors in soil. A. G. Lochhead and F. E. Chase. Science 96:387 O 23 '42

Contributions to the development of soil microbiology from the southeastern United States. F. B. Smith. Science 96:95-8 Jl 31 '42

Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

SOIL-cement blocks

Soil-cement blocks for walls of university research laboratory; University of Kansas, Lawrence. W. C. McNown. il Eng N 127:812-13 D 4 '41

SOIL cement roads. See Roads, Earth—Cement hardening

SOIL conservation

Assignment of soil-conservation mission to Venezuela. For Comm W 6:29 Ja 17 '42

Drop structures for erosion control; protection of watershed by East Bay municipal utility district, California. L. S. Hall. il Civil Eng 12:247-50 My '42

Farm-city plan for erosion control. R. H. Musser. J Land & Pub Util Econ 18:323-7 Ag '42

Hydraulic design of drop structures for gully control. B. T. Morris and D. C. Johnson. il diags Am Soc C E Proc 68:17-48 Ja '42; Discussion. 68:650, 812-18, 1021-2, 1171-7, 1424-6 Ap-Je, S-O '42

Keeping debris out of reservoirs by soil erosion control; East Bay municipal utility district in California. il Eng N 128:980 Je 18 '42

More soil conservation; reorganization of Soil conservation service. Comm & Fin Chr 155:1874 My 14 '42

Payment rate in farm conservation program. Comm & Fin Chr 154:1232 N 27 '41

Save the soil with contour farming and terracing. E. W. Lehmann and R. C. Hay. (Circ. 513) 44p Univ. of Illinois, College of agriculture, Extension service in agriculture and home economics, Urbana '41

Soil conservation helps to protect water supply; plan for preventing silting of reservoirs. A. Reichstein. map Pub Works 72:33-5 D '41

Texas soil conservation attracts world wide attention. H. H. Bennett. il Manuf Rec 111:30-1+ Je '42

This land we defend. H. H. Bennett and W. C. Pryor. 107p $1.50 Longmans '42

War and soil conservation. A. C. Bunce. J Land & Pub Util Econ 18:121-33 My '42

SOIL corrosion. See Corrosion and anti-corrosives—Underground corrosion

SOIL corrosivity. See Soils—Corrosive properties

SOIL erosion. See Erosion; Soil conservation

SOIL fertility

Relative efficiency of strains of rhizobium trifolii as influenced by soil fertility. J. L. Roberts and F. R. Olson. Science 95:413-14 Ap 17 '42

SOIL fusion

Fusion of top soil by an electric arc. K. Ver Steeg. Science 96:180 Ag 21 '42

SOIL mechanics

Apparatus for measuring the shear strength of soils. H. Q. Golder. il diags Engineering 153:501-3 Je 26 '42

Earth pressure and shearing resistance of plastic clay; symposium. K. Terzaghi, R. B. Peck and W. S. Housel. diags Am Soc C E Proc 68:857-950 Je '42; Discussion. 68:1216-24 S '42

Measurement of cohesive soil properties applied to engineering design. W. S. Housel. il diags Civil Eng 12:442-5 Ag '42

Physical chemistry of soil mechanics. R. J. Shaw. il diag Roads & Sts 84:48-9 D '41

Retaining walls. R. R. Minikin. diags Engineering 153:61-3 Ja 23 '42

Soil mechanics applied to soil drainage. J. D. Watson. diags Roads & Sts 85:36-7 Mr '42

Soils engineering at Kentucky dam. M. N. Sinacori. il plan Civil Eng 12:423-6 Ag '42

Stability of granular materials. R. E. Glover and F. E. Cornwell. diags Am Soc C E Proc 67:1639-56 N '41; Discussion. 67:1723-4; 68:501-5, 651-60, 1399-1403 N '41, Mr-Ap, O '42

SOIL mechanics—*Continued*

Technique of determining shearing strength of soils; progress report of a special committee of the Soil mechanics and foundations division on the technique of soil tests. il Am Soc C E Proc 68:255-63 F '42; Discussion. 68:263-4, 627-8, 1031-2, 1181-5 F, Ap, Je, S '42

See also

Earth pressure
Foundation soils
Landslides
Soil stabilization
Soils—Classification

Terminology

Proposed definitions of terms and symbols relating to soil mechanics. Am Soc T M Proc 41:460-6 '41

SOIL moisture

Explanation of many roadway and runway failures. H. C. Porter. Roads & Bridges 80:84 O '42

Finding moisture content of soil by water displacement method. A. S. Cary and B. H. Walter. diags Eng N 128:493-4 Mr 26 '42

Penetrometer control of rolled fill. F. H. Kellogg. il Eng N 129:550-4 O 22 '42

Proposed method of test for moisture-density relations of soil. diag Am Soc T M Proc 41:467-8 '41

Rain maker's aid; moisture meter tells if soil needs water. il Business Week p24 D 27 '41

Use of bitumen in soil stabilization. H. Gardner. pls diags Inst Pet J 27:329-43; Discussion. 344-7 O '41

SOIL permeability

Permeability of Mud Mountain Dam core material. A. S. Cary, B. H. Walter and H. T. Harstad. diag Am Soc C E Proc 68:1089-98 S '42; Discussion. 68:1843-6 D '42

SOIL sampling

Cohesionless soil-samples by freezing. F. E. Fahlquist. il diags Eng N 129:229-31 Ag 13 '42

Measuring soil-sample volume by improved methods. A. S. Carey and H. T. Harstad. diag Eng N 128:419-20 Mr 12 '42

New sampler for soft and sandy soils. H. D. Hammond. il diags Eng N 129:308-9 Ag 27 '42

SOIL stabilization

Base stabilization with soil as stabilizing agent. M. Quinn. il Pub Works 73:13-14 Je '42

Cement spreader and road-mix methods speed large surfacing jobs in California. il Eng N 129:366-8 S 10 '42

Design of airport paving from the soil mechanics viewpoint. T. A. Middlebrooks and G. E. Bertram. il diag Civil Eng 12:389-92 Jl '42

Emulsified asphalt stabilized base construction; with cost data; Coahoma county, Miss. B. T. Collier. il Pub Works 72:18-19 N '41

Foundation saver, prefabricated parts; new house of 194x. diags plans Arch Forum 77:71-3 S '42

Kansas completes bituminous stabilized soil base. J. R. Benson. il Roads & Sts 84:44-5 N '41

Pressure-grouting with cement-loam mixture restores settled buildings. il diags Concrete 50:2-3 N '42

Road and street stabilization; abstract. R. W. Crum and F. Burggraf. Pub Works 73:36-7 Jl '42

Soil classification and its bearing on soil stabilization. A. H. D. Markwick. bibliog Inst Pet J 27:313-28; Discussion. 344-7 O '41

Soil compaction methods produce dense fills on line change; 20-mile diversion on the Santa Fe. il map Ry Age 111:1040-5 D 20 '41

Soil stabilization and maintenance considered at Highway research board annual meeting, Baltimore, Dec. 2-5. Eng N 128:35-7 Ja 1 '42

Soils density apparatus employs rubber balloon. il diags Roads & Sts 84:60, 62-3 D '41

Stabilization of highway embankments. il Eng N 128:285-8 F 12 '42

Stabilizing soils for base courses and highway surfacing. L. D. Hicks. il Eng N 128:248-53 F 12 '42

Studies of soil aggregate base-course mixtures. J. B. Garneau and C. E. Beland. Roads & Bridges 80:28-9, 75+ My '42; Same. Roads & Sts 85:56, 58, 60-1 Je '42

Suitability of stabilized soil for building construction. E. L. Hansen. il diags Ill U Eng Exp Sta Bul 333:1-37 bibliog(p35-7) '41 (pa 45c)

Use of bitumen in soil stabilization. H. Gardner. pls diags Inst Pet J 27:329-43; Discussion. 344-7 O '41

Vinsol resin, a new soil stabilizer. il Eng N 128:777-81 My 7 '42

See also

Roads, Earth
Roads, Gravel—
Stabilization

SOILS

Care to forest soil brings profits. S. Grossman. Pulp & Pa of Can 43:773-4 S '42

Changes in composition of manufactured gas in contact with soil; investigation in connection with leaking mains. J. F. Anthes. Am Gas Assn Proc 1941:445

Chemistry of soils. L. T. Lowe. Chem & Ind 61:230-3 My 23 '42

Determination of exchange constants for the soil cations; abstract. T. F. Antipova-Karataeva and I. N. Antipov-Karataev. Am Cer Soc J 25 (Cer A 21):47 F 1 '42

Ionic competition in base-exchange reactions. R. H. Bray. bibliog Am Chem Soc J 64:954-63 Ap '42

Science and the land. F. L. Engledow. Chem & Ind 61:239-45 My 30 '42

Soils and fertilizers. F. E. Bear. 3d ed 374p $3.50 Wiley '42

Some observations on the relation of farm land tenure to soil erosion and depletion. O. T. Osgood. bibliog J Land & Pub Util Econ 17:410-22 N '41

Study of driven rods and counterpoise wires in high-resistance soil on Consumers power company 140-kv system. J. G. Hemstreet, W. W. Lewis and C. M. Foust. Elec Eng 61:Trans 628-33 S '42

Use of aerial photographs in war-time soils engineering. D. J. Belcher. il Roads & Sts 85:35-7 Jl '42

See also

Agriculture
Base exchanging compounds
Clay
Drainage
Earthwork
Erosion
Fertilizers
Foundation soils
Irrigation
Loess
Roads—Subgrades
Sand
Silt
Soil analysis
Soil fusion

Analysis

See Soil analysis

Classification

Classification of soils and control procedures used in construction of embankments. H. Allen. il diags Pub Roads 22:263-82 F '42

Soil classification and its bearing on soil stabilization. A. H. D. Markwick. bibliog Inst Pet J 27:313-28; Discussion. 344-7 O '41

Consolidation

Explanation of many roadway and runway failures. H. C. Porter. Roads & Bridges 80:84 O '42

Measurement of cohesive soil properties applied to engineering design. W. S. Housel. il diags Civil Eng 12:442-5 Ag '42

Corrosive properties

Method of determining pipe line corrosivity due to soils. P. F. Marx. il diags Pet Eng 13:29-32 F '42

Moisture content

See Soil moisture

SOILS—*Continued*

Phosphorus content

Phosphate fixation in soil and its practical control. F. E. Bear and S. J. Toth. diags Ind & Eng Chem 34:49-52 Ja '42

Testing

Controlling soil reaction; a universally important task for pH meters. H. Seymour. Chem Age (Lond) 46:223 Ap 25 '42

Finding moisture content of soil by water displacement method. A. S. Cary and B. H. Walter. diags Eng N 128:493-4 Mr 26 '42

Penetrometer control of rolled fill. F. H. Kellogg. il Eng N 129:550-4 O 22 '42

Soils density apparatus employs rubber balloon. il diags Roads & Sts 84:60, 62-3 D '41

Soils engineering features of Washington national airport construction. B. K. Hough, jr. il plan map Civil Eng 12:84-7 F '42

Use of bitumen in soil stabilization. H. Gardner. pls diags Inst Pet J 27:329-43; Discussion. 344-7 O '41

Use of soil surface potential in locating pipeline corrosion. O. C. Mudd. diags Oil & Gas J 41:50, 52+ My 14 '42

See also

Foundation soils—
Testing

SOLANUM

Solanum alkaloids. R. C. Bell, L. H. Briggs and others. diags Chem Soc J p 1-18 Ja '42

SOLAR eclipses. See Eclipses, Solar

SOLAR magnetism. See Magnetism, Solar

SOLAR observatories. See Astronomical observatories

SOLAR power

Energy of the sun. Science 96:sup10 O 2 '42

Future sources of power. C. C. Furnas. Science 94:427-8 N 7 '41; Same. Engineering 153:4 Ja 2 '42

Harnessing the sun; research on problem of power and heat from the sun; progress report from M.I.T. J. A. Sibley. il diag Sci Am 166:284-6 Je '42

SOLAR radiation

Daily variations in the heat of the sun; abstract. Science 94:sup8 N 21 '41

Harnessing the sun; research on problem of power and heat from the sun; progress report from M.I.T. J. A. Sibley. il diag Sci Am 166:284-6 Je '42

Heat gain through walls and roofs as affected by solar radiation. F. C. Houghten and others. bibliog Heating-Piping 14:306-12; Discussion. 312-13 My '42

Measurements of ultraviolet solar- and sky-radiation intensities in high latitudes. W. W. Coblentz, F. R. Gracely and R. Stair. bibliog pl J Research Nat Bur Stand 28:581-91 My '42

On solar-constant and atmospheric temperature changes. H. Arctowski. maps Smithsonian Misc Coll v 101, no 5:1-62 '41

Pyrheliometer measures heat of sun's rays. il Sci Am 166:170 Ap '42

Sun's temperature; will be at its lowest ebb in 1945. Science 95:sup10 My 22 '42

Tropopause studies to aid long-range weather forecasting. H. Arctowski. Heat & Ven 39:23 Je '42

Where is the sun? charts for determining the azimuth, altitude and incident angles; useful in calculating solar heat gains. M. J. Wilson and J. M. Van Swaay. diags map Heat & Ven 39:41-6 My; 59-61 Je '42

See also

Solar power
Ultraviolet rays

SOLAR system

See also

Earth
Sun

SOLASODINE

Solanum alkaloids; the alkaloids from solanum auriculatum. R. C. Bell, L. H. Briggs and J. J. Carroll. diags Chem Soc J p12-16 Ja '42

SOLASONINE

Solanum alkaloids; solasonine. L. H. Briggs, R. P. Newbold and N. E. Stace. Chem Soc J p3-12 Ja '42

Solanum alkaloids; the alkaloid from the fruit of solanum aviculare. R. C. Bell and L. H. Briggs. Chem Soc J p1-2 Ja '42

SOLAURICINE

Solanum alkaloids; the alkaloids from solanum auriculatum. R. C. Bell, L. H. Briggs and J. J. Carroll. diags Chem Soc J p12-16 Ja '42

Solanum alkaloids; the glycosidic moiety of solauricine. L. H. Briggs and J. J. Carroll. Chem Soc J p17-18 Ja '42

SOLDER and soldering

ASTM lists emergency babbitts and solders. Power 86:578 Ag '42

Art of soft soldering; abstract. A. J. T. Eyles. Metals & Alloys 14:778 N '41

Conserving tin. Electronics 14:84 N '41

Corrosion tests of soldered joints on copper tubes. A. W. Tracy. il diag Heating-Piping 14:538-40 S '42

Electric soldering; survey of methods. S. F. Philpott. diags Elec R (Lond) 129:691-3 D 19 '41

Fluxes for soft solders. H. C. Watkins. Engineering 153:328 Ap 24 '42; Abstract. Electronics 15:82 Jl '42

High-production high-economy methods for metal parts. D. Basch. il Gen Elec R 44:688-90 D '41

Indium solders. Metal Finishing 40:594+ N '42

Joint dipped in solder bath, saves solder. Elec W 118:306 Jl 25 '42

Jointing of metals by fusion; value of different methods of heat application. A. E. Richards. il Chem Age (Lond) 47:9-11 Jl 4 '42

Lead-base soldered joints in copper tubing. Franklin Inst J 234:164-5 Ag '42

Lead-silver solders save tin. Mach 48:119 My '42

Low-tin solders; containing silver and bismuth. S. Turkus and A. A. Smith, jr. il Metals & Alloys 15:412-13 Mr '42

Metallized soldering bits. Metals & Alloys 16:144 Jl '42

New solder; tin content reduced by eighty-seven per cent; Frys T.M. 5. Automobile Eng 32:309 Ag '42

Old auto bodies may be source of high-tin content solder; drawings showing location of solder spots proposed for auto wreckers. Iron Age 150:70, 72 Ag 6 '42

Paste soldering; Meltomatic method. Steel 110:82+ Mr 2 '42

Reassembling gas meters with low-tin-content solders. C. P. Xenis and A. F. Kochendorfer. il Gas Age 90:44-5, 60+ O 8 '42; Same. Am Gas Assn Mo 24:340-2+ O '42; Same. Am Gas J 157:11-15 O '42

Saving wiping solder in cable joint making. diags Elec W 117:1866 My 30 '42

Silver-lead solder; substitute for high-tin products; Comsol. Chem Age (Lond) 47:102 Ag 1 '42

Solder-flushed electrical contacts. diags Metals & Alloys 15:630 Ap '42

Soldering electrical joints. diag Elec R (Lond) 131:263-6, 294 Ag 28-S 4 '42

Solders with less tin for wipes and joints. il diag Elec W 118:602-4 Ag 22 '42

Structural changes in the bonding layer of soft-soldered joints in copper pipe lines on long-continued heating. W. H. Swanger and A. R. Maupin. bibliog J Research Nat Bur Stand 28:479-87, pl 1-8 Ap '42

Substitute solders and their use. H. W. Gillett. Metals & Alloys 15:868+ My '42

Substitute solders; with comparison table of soft solder. F. N. Rhines and W. A. Anderson. bibliog(46 titles) il Metals & Alloys 14:704-11 N '41

Supplementary soldering experiments with low tin-content solders. Gas Age 90:19-20+ N 5 '42

Tin shortage demands thorough trial of available substitute solders; abstract. Am Water Works Assn J 34:758-9 My '42

SOLDER and soldering—*Continued*

Tinless solders. Product Eng 13:403-4 Jl '42

Use high-lead solders and conserve tin; correlated abstract. Steel 110:74-5+ My 18 '42

Using high-lead solders. Metals & Alloys 15:635 Ap '42

Victory joint saves tin in wiping solder. J. T. Lowe. il diags Elec W 117:2262 Je 27 '42

See also

Brazing

Welding

SOLDERING apparatus

Soldering tool with hinged tip, dual heat range. il Sci Am 166:92-3 F '42

SOLDIERS

Accords free entry to Allies' soldiers articles. Comm & Fin Chr 156:273 Jl 23 '42

Army talk; a familiar dictionary of soldier speech. E. Colby. 232p $2 Princeton univ. press '42

Glimpses of U.S. business future seen in servicemen's letters to house magazines. E. Johns. il Ptr Ink 200:13-15, 42-4 Ag 7 '42

See also

Helmets

Military market

Civil employment

Report of the Commission on post-war training and adjustment; a statement of principles relating to the educational problems of returning soldiers, sailors, and displaced war industry workers. 54p Teachers college '42

Pay, allowances, etc.

See also

Canada—Army—Pay, allowances, etc.

Great Britain—Army—Pay, allowances, etc.

Switzerland—Army—Pay, allowances, etc.

United States—Army—Pay, allowances, etc.

SOLDIERS, Discharged

See also

Demobilization

SOLDIERS, Gifts for

Christmas mail for armed forces abroad. Comm & Fin Chr 156:816 S 3 '42

Soldiers and sailors vote on Santa Claus. Ptr Ink 200:48 S 11 '42

See also

Parcels for the forces, inc.

SOLDIERS' pensions. See Pensions, Military

SOLDIERS' wives

So your husband's gone to war! E. Gorham. 223p $2 Doubleday '42

SOLENOIDS

Complete solenoid control speeds Olean's carton conveyor system. L. H. Cargill. il Glass Ind 23:297-300 Ag '42

Formulas for the magnetic-field strength near a cylindrical coil. H. B. Dwight. bibliog diags Elec Eng 61:Trans 327-33 Je '42

Sequence operations speeded with solenoids. D. K. Frost. il Machine Design 14:113-14 Ap '42

Solenoid inductance calculations; reference sheet. T. C. Blow. Electronics 15:63-4 My '42

Surge propagation; analytical investigation of the penetration of alternating pressure and currents in solenoid windings. T. F. Wall. diags Engineering 153:461-3 Je 12 '42

SOLES, Rubber

Advertising

Sets pattern of advertising for rubber processors; O'Sullivan rubber co. campaign to promote show repair. il Ptr Ink 199:32 My 15 '42

SOLEX gage. See Gages

SOLID solutions. See Solutions, Solid

SOLIDS

Crystalline solids and liquids; abstract. J. G. Kirkwood. Science 95:sup10 Mr 13 '42

Electrical properties of solids. R. M. Fuoss. J Chem Educ 19:190-3, 231-5 Ap-My '42

Energy relations of the surface of solids. W. D. Harkins and H. K. Livingston. diags J Chem Phys 10:268-72, 342-56 My-Je '42

Energy states of solids; evidence from thermal data for the existence of low electronic energy levels in europium ion; the heat capacity of europium sulfate octahydrate from 60 to 300°K. E. A. Long and R. A. Degraff. bibliog Am Chem Soc J 64:1346-9 Je '42

Ice ghosts; difference between solids and liquids is not sharp. Sci Am 166:246-7 My '42

Optical dispersion of copper and beryllium. M. P. Givens. bibliog diag Phys R 61:626-30 My 1 '42

Principles and practice in drying of solids. A. Weisselberg and T. R. Olive. diags Chem & Met Eng 49:93-102 My '42

Temperatures in solids during heating or cooling; tables for the numerical solution of the heating equation. F. C. W. Olson and O. T. Schultz. bibliog Ind & Eng Chem 34:874-7 Jl '42

See also

Crystals

Expansion (heat)

Granular materials

Melting points

Particles

Powders

Solutions, Solid

SOLOMON islands, Battle of, 1942

Upsetting Tokyo's timetable. Business Week p70-2 Ag 15 '42

SOLUBILITY

Alkyl esters of phosphoric acid. C. A. Hochwalt and others. bibliog il Ind & Eng Chem 34:20-5 Ja '42

Aquo ammono phosphoric acids; the N-substituted derivatives of phosphoryl and thiophosphoryl triamide as hydrogen bonding agents. L. F. Audrieth and A. D. F. Toy. bibliog Am Chem Soc J 64:1553-5 Jl '42

Chemistry of group 1: silver, mercury, lead; summary of results of recent research. A. B. Garrett, M. V. Noble and S. Miller. bibliog J Chem Educ 19:485-9 O '42

Cloud point of varnish resins in drying oils. P. O. Powers. bibliog Ind & Eng Chem Anal ed 14:387-91 My 15 '42

Correlating gas solubilities and partial pressure data. D. F. Othmer and R. E. White. bibliog Ind & Eng Chem 34:952-9 Ag '42

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Effect of cooking on solubility of cottonseed-meal proteins. H. S. Olcott and T. D. Fontaine. bibliog Ind & Eng Chem 34:714-16 Je '42

Effect of salts on the mutual miscibility of normal butyl alcohol and water. L. A. Reber, W. M. McNabb and W. W. Lucasse. bibliog J Phys Chem 46:500-15 Ap '42

Electric polarisation of mercurous trichloroacetate and of quinol bistrichloroacetate. N. R. Davidson and L. E. Sutton. Chem Soc J p565-7 S '42

General theory of the isoelectric point. T. L. Hill. bibliog J Phys Chem 46:417-28, 621-4 Mr, Je '42

Hydrocarbon-water solubilities at elevated temperatures and pressures. J. Griswold and J. E. Kasch. bibliog Ind & Eng Chem 34:804-6 Jl '42

Interaction of ions and dipolar ions; solubility of thallous salts in glycine and in alanine solutions. R. M. Keefer and H. G. Reiber. bibliog Am Chem Soc J 63:3504-7 D '41

Isolation of radioactive yttrium and some of its properties in minute concentrations. J. D. Kurbatov and M. H. Kurbatov. bibliog J Phys Chem 46:441-57 Ap '42

Line correlation. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:693-6 Je '42

Liquid-liquid extraction data; toluene and acetaldehyde systems. D. F. Othmer and P. E. Tobias. Ind & Eng Chem 34:690-2 Je '42

SOLUBILITY—*Continued*

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38: 891-930 O '42

Nephelometric method for determination of solubilities of extremely low order. W. W. Davis and T. V. Parke, jr. Am Chem Soc J 64:101-7 Ja '42

Nitromethane-isopropyl alcohol-water system; vapor-liquid equilibria in the ternary system and in the three related binary systems. J. E. Schumacher and H. Hunt. bibliog Ind & Eng Chem 34:701-4 Je '42

Nomograph for the solubility of chlorine monoxide in water. D. S. Davis. Ind & Eng Chem 34:624 My '42

Partial pressures of ternary liquid systems and the prediction of tie lines. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:696-700 Je '42

Plumbic acetate-anhydrous acetic acid solutions. A. W. Davidson, W. C. Lanning and M. M. Zeller. bibliog Am Chem Soc J 64: 1523-7 Jl '42

Properties of cellulose esters of acetic, propionic, and butyric acids. C. J. Malm, C. R. Fordyce and H. A. Tanner. Ind & Eng Chem 34:430-5 Ap '42

Protein constituent analysis by the solubility method. S. Moore, W. H. Stein and M. Bergmann. bibliog Chem R 30:423-32 Je '42

Rate of solution of particles of quartz and certain silicates. P. H. Kitto and H. S. Patterson. bibliog J Ind Hygiene 24:59-74 Ap '42

Relationship between the method of preparation, the distribution of substituents and the solubility in water or alkali of methyl and ethyl ethers of cellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:15-19 Ja '42

Residue volume method of solubility determination. T. H. Vaughn and E. G. Nutting, jr. Ind & Eng Chem Anal ed 14:454-6 Je 15 '42

Solubilities of organic compounds; a compilation of quantitative solubility data from the periodical literature. A. Seidell. 3d ed v2 926p $10 Van Nostrand '41

Solubilities of orthanilamide, metanilamide and sulfanilamide. R. H. Kienle and J. M. Sayward. Am Chem Soc J 64:2464-8 O '42

Solubility diagram for the system benzene—pyridine—water. J. C. Smith. bibliog J Phys Chem 46:376-80 Mr '42

Solubility diagrams for the systems ethylidene diacetate-acetic acid-water and vinyl acetate-acetone-water. J. C. Smith. J Phys Chem 46:229-32 F '42

Solubility methods in the study of proteins. R. M. Herriott. bibliog Chem R 30:413-21 Je '42

Solubility of carbon disulfide vapor in body fluids and tissues. R. W. McKee. il J Ind Hygiene 23:484-9 D '41

Solubility of carcinogenic and related hydrocarbons in water. W. W. Davis, M. E. Krahl and G. H. A. Clowes. bibliog Am Chem Soc J 64:108-10 Ja '42

Solubility of iron oxide in liquid iron. J. Chipman and K. L. Fetters. bibliog diag Am Soc for Metals Trans 29:953-67; Discussion. 967-8 D '41

Solubility of lead sulfate and of lead oxalate in various media. I. M. Kolthoff, R. W. Perlich and D. Weiblen. bibliog J Phys Chem 46:561-70 My '42

Solubility of nickel ions in aqueous alkaline carbonate-tungstate solutions. M. L. Holt and D. A. Swalheim. bibliog Electrochem Soc Trans 81 (preprint 2):11-25 Ap '42

Solubility of polybutene in pure solvents. H. C. Evans and D. W. Young. bibliog Ind & Eng Chem 34:461-6 Ap '42

Solubility of potassium iodate and zinc iodate in dioxane-water mixtures; effect of sorting of solvent molecules. J. E. Ricci and G. J. Nesse. bibliog Am Chem Soc J 64:2305-11 O '42

Solubility of propylene vapor in water as affected by typical detergents. J. W. McBain and A. M. Soldate. Am Chem Soc J 64:1556-7 Jl '42

Solubility of silver acetate in aqueous solutions of silver nitrate and of silver perchlorate; complex ions formed from silver and acetate ions. F. H. MacDougall. J Phys Chem 46:738-47 Je '42

Solubility of silver acetate in aqueous solutions of some other acetates; the formation of diacetato-argentate ion. F. H. MacDougall and M. Allen. bibliog J Phys Chem 46:730-7 Je '42

Solubility of sodium carbonate in fused sodium hydroxide. R. P. Seward. Am Chem Soc J 64:1053-4 My '42

Solubility of sodium palmitate in organic liquids. C. W. Leggett, jr., R. D. Vold and J. W. McBain. bibliog J Chem Phys 46: 429-40 Mr '42

Solubility of stannous oxide in perchloric acid. M. Gorman and P. A. Leighton. Am Chem Soc J 64:719-20 Mr '42

Solubility of strontium chromate and the detection of strontium. T. W. Davis. bibliog Ind & Eng Chem Anal ed 14:709-11 S 15 '42

Solubility of the flavianates of certain organic bases in water, ethanol, and *n*-butanol at 3 and 30°. W. D. Langley and T. R. Noonan. Am Chem Soc J 64:2507 O '42

Solubility relations of mercuric oxide in aqueous solutions of hydrogen chloride. A. B. Garrett and J. Lemley. bibliog Am Chem Soc J 64:2380-3 O '42

Solubilization of water-insoluble dye in aqueous solutions of commercial detergents. J. W. McBain and R. C. Merrill, jr. bibliog Ind & Eng Chem 34:915-19 Ag '42

Some peculiarities in the *P-T* border curves of mixtures of hydrogen and a petroleum naphtha. W. B. Kay. bibliog Chem R 29: 501-7 D '41

Some properties of solutions of long-chain compounds. M. L. Huggins. bibliog J Phys Chem 46:151-8 Ja '42

Studies on solubilization. R. C. Merrill, jr. and J. W. McBain. bibliog J Phys Chem 46:10-19 Ja '42

Study of solubility of two lead salts in dilute solutions with special reference to the lead hazard in drinking water. C. C. Ruchhoft and J. F. Kachmar. Am Water Works Assn J 34:85-93 Ja '42

System sodium nitrate-dioxane-water at 25°. B. Selikson and J. E. Ricci. bibliog Am Chem Soc J 64:2474-6 O '42

Ternary system lithium chloride—dioxane—water. C. C. Lynch. bibliog diag J Phys Chem 46:366-70 Mr '42

Ternary systems for extraction calculations; with list of systems for which complete data on the solubility relationships are available. J. C. Smith. bibliog(53 references) Ind & Eng Chem 34:234-7 F '42

See also
Electrolytes
Solution (chemistry)

SOLUTION (chemistry)

Apparent volumes of individual ions in aqueous solution. K. Fajans and O. Johnson. bibliog Am Chem Soc J 64:668-78 Mr '42

Association of benzoic acid in benzene. F. T. Wall and P. E. Rouse, jr. Am Chem Soc J 63:3002-5 N '41

Changes in volume on mixing solutions. P. W. Parsons and F. J. Estrada. Ind & Eng Chem 34:949-52 Ag '42

Chemical solutions; reagents useful to the chemist, biologist, and bacteriologist. F. Welcher. 404p bibliog(p397-9) $4.75 Van Nostrand '42

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Concentration change. G. H. Horne. Ind & Eng Chem 34:1042 S '42

SOLUTION (chemistry)—*Continued*

Concentration of dilute solutions of electrolytes by base-exchange materials. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41

Densities and specific heats of aqueous solutions of *dl*-α-alanine, β-alanine and lactamide. F. T. Gucker, jr. and T. W. Allen. bibliog Am Chem Soc J 64:191-9 F '42

Diffusion coefficients in solution; an improved method for calculating *D* as a function of concentration. W. G. Eversole, J. D. Peterson and H. M. Kindsvater. J Phys Chem 45:1398-1403 D '41

Discontinuities in properties of liquid systems. G. Antonoff, M. Chanin and M. Hecht. bibliog J Phys Chem 46:486-91 Ap '42

Dissolving and leaching as diffusional operations. J. R. Callaham. bibliog diags Chem & Met Eng 49:120-4 My '42

Distribution of benzoic acid between water and benzene. F. T. Wall. Am Chem Soc J 64:472-3 F '42

Effect of molecular environment on the absorption spectra of organic compounds in solution; αβ-unsaturated ketones. L. K. Evans and A. E. Gillam. Chem Soc J p815-20 D '41

Effect of temperature and solvent type on the intrinsic viscosity of high polymer solutions. T. Alfrey, A. Bartovics and H. Mark. bibliog Am Chem Soc J 64:1557-60 Jl '42

Electric polarization and association in solution; the dipole moments of some alcohols in very dilute benzene solutions. A. A. Maryott. bibliog Am Chem Soc J 63:3079-83 N '41

Exchange and transfer equilibria of acids, bases, and salts in deuterium-protium oxide mixtures; the ion product constant of deuterium oxide. R. W. Kingerley and V. K. LaMer. bibliog Am Chem Soc J 63:3256-62 D '41

Magnetic rotation of cerium salts in aqueous solution. W. K. Wilson and others. bibliog Am Chem Soc J 64:412-16 F '42

Molal volumes of solutes; potassium chlorate and hydrochloric acid. O. Redlich and J. Bigeleisen. bibliog Am Chem Soc J 64:758-60 Ap '42

Molal volumes of solutes; sodium acetate and acetic acid. O. Redlich and L. E. Nielsen. Am Chem Soc J 64:761-2 Ap '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Partial molal volumes of nickel sulfate solutions. R. W. Gelbach and H. M. Louderback. Am Chem Soc J 64:2379 O '42

Partition ratios of some organic acids between water and ethyl ether. O. C. Dermer, W. G. Markham and H. M. Trimble. Am Chem Soc J 63:3524-5 D '41

Potential in a solution near a charged wall. W. G. Eversole. bibliog J Chem Phys 10:78 Ja '42

Principles of chemistry. J. S. Friedman. Am Phot 36:46-7 Mr; 52, 54-5 My '42

Rate of nucleation of silver chromate in supersaturated solutions. A. Van Hook and J. C. Ahlborn. bibliog J Phys Chem 46:395-9 Mr '42

Reactions in solutions containing O_3, H_2O_2, H^+ and Br^-; the specific rate of the reaction $O_3 + Br^- \rightarrow$. H. Taube. Am Chem Soc J 64:2468-74 O '42

Region of critical solution of binary liquids, evidence for an anomalous first-order transition in the system triethyl amine-water. L. D. Roberts and J. E. Mayer. bibliog diags J Chem Phys 9:852-8 D '41

Relation between viscosity of solutions and physical properties of high polymers. R. Simha. bibliog J Ap Phys 13:147-53 Mr '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

Reproducible contact angles on reproducible metal surfaces; interfacial contact angles between water and organic liquids on surfaces of silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1530-4 Jl '42

Some properties of solutions of long-chain compounds. M. L. Huggins. bibliog J Phys Chem 46:151-8 Ja '42

Supersaturation in sugar boiling operations; continuous automatic measurement. A. L. Holven. bibliog diags Ind & Eng Chem 34:1234-40 O '42

System $Ca(NO_3)_2$-$Sr(NO_3)_2$-H_2O at 25 and 60°. K. A. Kobe and P. B. Stewart. bibliog Am Chem Soc J 64:1301-3 Je '42

System ferric chloride-sodium chloride. H. F. Johnstone, H. C. Weingartner and W. E. Winsche. bibliog Am Chem Soc J 64:241-4 F '42

Temperature-composition relations of the binary system manganous nitrate-water. W. W. Ewing and H. E. Rasmussen. Am Chem Soc J 64:1443-5 Je '42

Ternary systems for extraction calculations; with list of systems for which complete data on the solubility relationships are available. J. C. Smith. bibliog(53 references) Ind & Eng Chem 34:234-7 F '42

Theory of solutions of high polymers. M. L. Huggins. bibliog Am Chem Soc J 64:1712-19 Jl '42

Thermodynamic theory of solutions of two liquids at all concentrations. J. L. Finck. Franklin Inst J 233:51-70 Ja '42

Thermodynamics of high polymer solutions. P. J. Flory. bibliog J Chem Phys 10:51-61 Ja '42

Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

Vapor-liquid equilibria of the system acetone—acetic acid—water. R. York, jr. and R. C. Holmes. bibliog diags Ind & Eng Chem 34:345-50 Mr '42

Vapor pressures of aqueous solutions at high temperatures. N. B. Keevil. bibliog Am Chem Soc J 64:841-50 Ap '42

See also

Boiling points
Colloids
Crystallization
Diffusion
Electrolysis
Electrolytes
Henry's law
Ions
Precipitation
Solubility
Solvents

SOLUTION, Heat of

Correlating gas solubilities and partial pressure data. D. F. Othmer and R. E. White. bibliog Ind & Eng Chem 34:952-9 Ag '42

Heats of solution of the system sulfur trioxide-water. R. A. Morgen. il Ind & Eng Chem 34:571-4 My '42

Partial pressure of hydrogen chloride from its solutions in β,β′-dichloroethyl ether and in anisole and the calculation of the heat and entropy of solution. S. J. O'Brien. bibliog Am Chem Soc J 64:951-3 Ap '42

Vapor pressure-temperature relations and heats of solution and dilution of the binary system manganous nitrate-water. W. W. Ewing, C. F. Glick and H. E. Rasmussen. Am Chem Soc J 64:1445-9 Je '42

SOLUTIONS, Solid

Equilibrium diagram of the system carbon tetrachloride-*t*-butyl chloride as revealed by dielectric constant measurements. W. P. Conner and C. P. Smyth. Am Chem Soc J 63:3424-8 D '41

Hardness of metals as affected by alloying agents. S. Siegel. bibliog J Ap Phys 13:84-9 F '42

Nickel-molybdenum system. F. H. Ellinger. il Am Soc for Metals Trans 30:607-37; Discussion. 638 S '42

Order in the alloy Cu_3Au; electron diffraction by transmission method used to investigate superstructure. L. H. Germer, F. E. Haworth and J. J. Lander. il diags Phys R 61:614-26 My 1 '42

SOLUTIONS, Solid—*Continued*

Rates and mechanism of phase changes in binary mixtures of alkali halides. F. A. Matsen and J. Y. Beach. bibliog Am Chem Soc J 63:3470-3 D '41

Solid solutions of the alkali halides. A. V. Tobolsky. J Chem Phys 10:187-92 Mr '42

Studies on aging and coprecipitation; mixed-crystal formation of lead molybdate with colloidal and flocculated lead chromate. I. M. Kolthoff and F. T. Eggertsen. bibliog J Phys Chem 46:616-20 Je '42

Thermodynamic properties of binary solid solutions; phase separation. E. N. Lassettre and J. P. Howe. bibliog J Chem Phys 9:801-6 N '41

SOLUTIONS, Standard

Alkalimetric standardization of iodine solutions. F. L. Hahn. Ind & Eng Chem Anal ed 14:773 O 15 '42

Standardization and stability of 0.1 *N* sodium thiosulfate solutions in hot weather. S. O. Rue. bibliog Ind & Eng Chem Anal ed 14:802-5 O 15 '42

SOLVENT extraction. See Extraction processes

SOLVENTS

Alkyl carbonates in synthetic chemistry; alkyl carbonates as solvents for metalation and alkylation reactions. V. H. Wallingford, M. A. Thorpe and A. H. Homeyer. bibliog Am Chem Soc J 64:580-2 Mr '42

Apparatus for determining distillation ranges at reduced pressures. C. E. Watts, J. A. Riddick and F. Shea. diags Ind & Eng Chem Anal ed 14:506-7 Je 15 '42

Association effects in the Raman spectra of solutions of thiophenol in donor solvents. R. H. Saunders, M. J. Murray and E. F. Cleveland. Am Chem Soc J 64:1230-1 My '42

Continuous washing apparatus for solutions in organic solvents. A. L. LeRosen. il diags Ind & Eng Chem Anal ed 14:165 F 15 '42

Cupriethylenediamine as a solvent for cellulose fractionation. F. L. Straus and R. M. Levy. bibliog Paper Tr J 114:33-7 Ap 30 '42; Abstract. Paper Ind 24:762-4 O '42

Degreasing metal parts; suggested substitutes for chlorinated hydrocarbon solvents. Nat Safety N 45:26 Ja '42

Dielectric and solvent effects upon the iodide-persulfate reaction. E. S. Amis and J. E. Potts, jr. bibliog Am Chem Soc J 63:2883-8 N '41

Dry-cleaning fluids speed arms production; solvent degreasing. Iron Age 149:64-5+ Je 18 '42

Effect of solvent on some reaction rates. F. H. Westheimer and W. A. Jones. bibliog Am Chem Soc J 63:3283-6 D '41

Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34:764-70 Je '42

Electron-sharing ability of organic radicals; the effect of the radicals in the solvent molecule. F. A. Landee and I. B. Johns. bibliog Am Chem Soc J 63:2895-900 N '41

Electron-sharing ability of organic radicals; the effect of the radicals on the degree of association of polar molecules. F. A. Landee and I. B. Johns. bibliog diags Am Chem Soc J 63:2891-5 N '41

Electron-sharing ability of organic radicals; the effect of the radicals on the ionizing power of organic solvents. F. J. Moore and I. B. Johns. Am Chem Soc J 63:3336-8 D '41

Electrostatic influence of substituents on reaction rates; solvent effect. F. H. Westheimer, W. A. Jones and R. A. Lad. bibliog J Chem Phys 10:478-85 Jl '42

Extraction nomograph for solute-free solvents. D. S. Davis. Ind & Eng Chem 34:1014 Ag '42

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Graphic method of studying the separation of mixtures by immiscible solvents. L. F. Knudsen and D. C. Grove. Ind & Eng Chem Anal ed 14:556-7 Jl 15 '42

High pressure steam as a solvent; abstract. O. Fuchs. Chem & Met Eng 49:180 F '42

How the coating industry is using the nitroparaffins. C. Bogin. Paint Oil & Chem R 104:9-11+ Ag 27; 9-11, 26-8 S 10; 9-10, 24-9 S 24; 8-10, 25-9 O 8 '42

Hydrocarbon solvents from petroleum and their industrial applications. F. N. Harrap and E. B. Evans. flow sheet diags Inst Pet J 27:369-98; Discussion. 399-401 N '41

Inflammable solvents and solvent vapours. J. Creevey. Chem Age (Lond) 46:203 Ap 18 '42

Influence of solvent on the ultraviolet absorption maximum of vitamin A. K. Morgareidge. bibliog Ind & Eng Chem Anal ed 14:700-2 S 15 '42

Line correlation. D. F. Othmer and P. E. Tobias. bibliog Ind & Eng Chem 34:693-6 Je '42

Liquid-liquid extraction employing solvents in the region of their critical temperatures. A. W. Hixson and J. B. Bockelmann. bibliog diags Am Inst Chem Eng Trans 38:891-930 O '42

Liquid sulfur dioxide as solvent medium for chemical reactions. J. Ross and others. bibliog Ind & Eng Chem 34:924-6 Ag '42

Magnitude of the solvent effect in dipole-moment measurements; determination of distortion polarisation and its additivity in the alkyl and aryl halides. A. Audsley and F. R. Goss. Chem Soc J p864-73 D '41

Magnitude of the solvent effect in dipole-moment measurements; induced and mesomeric moments of the alkyl halides and the halogenobenzenes. A. Audsley and F. R. Goss. Chem Soc J p497-500 Ag '42

Magnitude of the solvent effect in dipole-moment measurements; the solvent-effect constant and the moments of alkyl iodides. A. Audsley and F. R. Goss. Chem Soc J p358-66 My '42

Metal cleaning; using emulsifiable solvents, Emulso-dip or Emulso-spray. R. W. Mitchell. diags Iron Age 149:49-51 My 14 '42

Mixed-solvent extraction. A. V. Brancker, T. G. Hunter and A. W. Nash. bibliog Inst Pet J 28:15-26 Ja '42

Mixed solvent extraction; batch-extraction stoichiometric computations. T. G. Hunter. bibliog diags Ind & Eng Chem 34:963-70 Ag '42

Neoprene cements and solvent compounds. R. D. Earle. il India Rubber W 106:570-1 S '42

Nitroparaffins as solvents in the coating industry. C. Bogin and H. L. Wampner. bibliog Ind & Eng Chem 34:1091-6 S '42; Same cond. Chem Age (Lond) 47:377-80 O 31 '42

Nitroparaffins as solvents in the coating industry; abstract. H. L. Wampner and C. Bogin. Paint Oil & Chem R 104:10 My 7 '42; Same. Chem Ind 50:640 My '42; Same. Chem & Met Eng 49:156 Jl '42

Organic solvents; polyhydric alcohols; amine compounds; chlorethylenes. S. Yates. Textile Col 64:199-201, 231-3 Ap-My '42

Petroleum products. Published in weekly numbers of Oil, paint and drug reporter

Rate of inversion of sucrose as a function of the dielectric constant of the solvent. C. J. Plank and H. Hunt. bibliog J Phys Chem 45:1403-15 D '41

Solubility of polybutene in pure solvents. H. C. Evans and D. W. Young. bibliog Ind & Eng Chem 34:461-6 Ap '42

Solvent effects on the kinetics of ionic reactions and the choice of the concentration scale. H. G. Davis and V. K. LaMer. bibliog J Chem Phys 10:585-97 S '42

Solvent extraction of Pennsylvania lubricating oils with dimethylformamide. H. T. Ward. bibliog diags Am Inst Chem Eng Trans 38:931-46 O '42

Solvent properties of isomeric paraffins. E. H. McArdle and A. E. Robertson. bibliog Ind & Eng Chem 34:1005-8 Ag '42

SOLVENTS—*Continued*

Solvents and plasticizers for chlorinated rubber. J. W. Raynolds, M. R. Radcliffe and M. R. Vogel. bibliog Ind & Eng Chem 34:466-73 Ap '42

Solvents and plasticisers in war time. A. M. Peake. Chem Age (Lond) 46:21-3 Ja 10 '42

Solvents in industry (cont). Metal Finishing 40:63-4, 446 Ja, Ag '42

Stabilization of chlorinated solvents for metal degreasing. C. F. Dinley. il Metal Finishing 40:448-9 Ag '42; Abstract. Automotive Ind 86:40 Je 15 '42

Studies of ionisation in non-aqueous solvents; the formation of certain methoxides and ethoxides in methyl and in ethyl alcohol. W. L. German and T. W. Brandon. Chem Soc J p526-8 Ag '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

Synthetics in the varnish industry; use of hydrogenated solvents. A. E. Williams. Chem Age (Lond) 47:33-5 Jl 11 '42

Toluol substitute. Chem Ind 50:354 Mr '42

Ultraviolet absorption of vitamin A in various solvents. F. P. Zscheile and R. L. Henry. bibliog Ind & Eng Chem Anal ed 14:422-5 My 15 '42

Viscosity of binary liquid mixtures; abstract. R. Linke. Chem & Met Eng 49:222 S '42

Viscosity of naphtha-resin solutions. E. H. McArdle and E. L. Baldeschwieler. Ind & Eng Chem 34:882-5 Jl '42

Water repellents in drycleaning solvents. Textile Col 64:389-90 Ag '42

What you can use; solvents for rubber. Oil Paint & Drug Rep 142:58 Jl 13; 44 Jl 20 '42

What you can use; solvents used in printing inks. Oil Paint & Drug Rep 140:58 D 1; 36 D 8 '41

See also

Acetone
Alcohol
Alcohols
Ammonia
Benzene
Butanone
Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chloroform
Cleaning compositions
Cyclohexane
Furfural
Glycol
Methanol
Methyl cellosolve
Propane
Trichloroethylene

also Commercial solvents corporation

Analysis

Determination of mixed aniline points of hydrocarbon solvents. B. H. Shoemaker and J. A. Bolt. Ind & Eng Chem Anal ed 14:200-1 Mr 15 '42

Determination of water-immiscible organic solvents volatile with steam in sulfonated (sulfated) oils; report no. 8 of the subcommittee on sulfonated oils. diags Am Dyestuff Rep 31:64-70 F 2 '42

Recovery

Chemical solvents reclaimers listed; abstract. S. D. Perlman. Oil Paint & Drug Rep 142:3+ Ag 24 '42

Column for stripping solvents from extracted oils. F. H. Smith. diag Ind & Eng Chem Anal ed 14:255 Mr 15 '42

Recovery of vapors, with special reference to volatile solvents. C. S. Robinson. 273p $4.75 Reinhold pub. corp. '42

Recovery or salvage of chemical solvents. A. B. Ray. flow diag il Mech Eng 64:454-7 Je '42

Solvent recovery made practical by air-cooled still. il Sci Am 166:253 My '42

Statistics

Alcohol and solvents. Chem & Met Eng 49:92-3 F '42

SOMERVELL, Brehon Burke, 1892-

S.O.S.; the army's vast power over American economy centered in Brehon Somervell; should he also get the ships and raw materials? il Fortune 26:66-71, 164, 166 S '42

SONGS

Important things to know about use of copyrighted music in advertising. P. H. Pumphrey. Ptr Ink 197:27, 30+ N 14 '41

See also

War songs

SONOTONE corporation

Sonotone's stamp album contest hoists summer volume 42%. il Sales Management 49:58+ N 15 '41

SOOT

What's happening inside your kiln? L. R. Whitaker. Brick & Clay Rec 101:17-18 Jl '42

See also

Smoke

SOOT blowers

Chart records soot blower troubles at Spy Run plant. diag Elec W 118:1447 O 31 '42

Drilled nozzles replace inserts in soot blower. diag Elec W 118:632 Ag 22 '42

Power and automatic operation of soot blowers. R. J. Glinn. Engineering 154:76, 87-8, 105 Jl 24-Ag 7 '42; Discussion. 154:14 Jl 3 '42; Electrician 129:14-17 Jl 3 '42

Soot blower; developments from 1919 to to-day. R. J. Glinn. Electrician 128:646-7 Je 26 '42; Abstract and discussion. Elec R (Lond) 131:7-8 Jl 3 '42

SOPHORA

Sophora alkaloids; the alkaloids from the seeds of the Chatham Islands species. L. H. Briggs and W. E. Russell. Chem Soc J p555-6 S '42

SOPHORA chrysophylla

Sophora alkaloids; the alkaloids of the seeds of S. chrysophylla. L. H. Briggs and W. E. Russell. Chem Soc J p507-9 Ag '42

SORBIC acid

Electrolytic reduction of organic compounds; bimolecular products from sorbic acid at a solid and a liquid gallium cathode: analogy with overvoltage. K. B. Wilson and C. L. Wilson. Chem Soc J p874-7 D '41

SORBITOL

1,2,3,4-Dibenzylidene-D-sorbitol. J. K. Wolfe, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:1493-7 Jl '42

Sorbitol in glue coatings; abstract. H. C. Speel. Chem & Met Eng 49:175-6 F '42

SORBOSE

Rates of reaction of diacetone glucose, diacetone galactose and diacetone sorbose with *p*-toluenesulfonyl chloride in pyridine solution. R. C. Hockett and M. L. Downing. Am Chem Soc J 64:2463-4 O '42

SORBTEX process

Sorbtex process. Textile Col 63:668 D '41

SORENSEN, Charles E. 1881-

Portrait. Mach 48:116 Mr '42

Sorensen of the Rouge; besides making engines, tanks, and guns, he is running the biggest bomber factory in the world. por Fortune 25:78-81+ Ap '42

SORGHUM

Waxy starch from sorghum. Food Ind 14:76-7 Ag '42

Waxy starch of maize and other cereals; a possible competitor for tapioca. R. M. Hixon and G. F. Sprague. bibliog il Ind & Eng Chem 34:959-62 Ag '42

SOROCOLD, George

Sorocold's waterworks at Leeds, 1694. F. Williamson and W. B. Crump. bibliog map Engineer 172:352, 372-3 N 21-28 '41

SORTING

Fast sorting of mixed pieces by their magnetic characteristics. P. E. Cavanagh. il Metal Prog 42:394-5 S '42

Sorting high- and low-carbon steel parts. R. H. Grace. Metals & Alloys 15:833-4 My '42

SORTING devices

Device unscrambles metal parts which have different effects on a magnetic field. C. S. Williams. il diag Elec W 117:1694 My 16 '42

Magnetic sorting of metal parts. C. S. Williams. il Metals & Alloys 14:742 N '41; Same. Metal Prog 41:85 Ja '42

Mechanical brain aids Canadian census takers; Belisle sorter-tabulator for punched cards. R. N. Bryan. il Comp Air M 47:6793-4 Jl '42

Some simple sorting and feeding mechanisms for the delivery of shells. W. M. Halliday. diags Mech Handling 29:112-14, 147-50 Je, Ag '42

Sorter for metal parts of like appearance. il Sci Am 165:321 D '41

SOUND

Acoustics. A. Wood. 588p $6 Interscience publishers, New York '41

Engineering fundamentals. Diesel Power 20:758+ S '42

Experimental heat, sound and light; an analytical college text. H. B. Lemon and M. Ference. 5th ed 361 numb l pa $3.50 Univ. of Chicago bookstore, Chicago '42

Hearing, the determining factor for high-fidelity transmission. H. Fletcher. bibliog diags Inst Radio Eng Proc 30:266-77 Je '42

Vocational acoustics. R. L. Leadbetter. il W Soc E J 47:59-69 Ap '42

See also

Acoustic impedance
Echo
Electroacoustics
Hearing
Music
Noise
Sound waves
Soundproofing
Speech
Tones
Vibration
Voice

Absorption

Supersonic absorption and Stokes' viscosity relation. L. Tisza. bibliog Phys R 61:531-6 Ap 1 '42

See also

Sound absorbent materials

Apparatus

Acoustic tube for measuring the sound absorption coefficients of small samples. D. P. Loye and R. L. Morgan. il Acoustical Soc Am J 13:261-4 Ja '42

Air raid siren field tests. L. M. Ball. maps Acoustical Soc Am J 14:10-13 Jl '42

Aircraft detector for use in rural areas, developed at Rensselaer polytechnic institute, Troy, N.Y. il diags Electrician 129:109-10 Jl 31 '42

Automatic alarm systems for use in conjunction with fences built to protect property. il Electronics 15:156 Je '42

Bureau of mines develops instruments to aid in reclaiming zinc, lead ores. R. R. Sayers. Steel 111:38 Jl 27 '42

Determining pressure zones in mine pillars. il Min Cong J 28:36-7 Ag '42; Excerpts. Can Min J 63:672 O '42

Double talk on the record; the Audograph. il Mod Plastics 19:42+ F '42

Improved apparatus for supersonic velocity and absorption measurements. D. Telfair and W. H. Pielemeier. bibliog diags R Sci Instr 13:122-6 Mr '42

Note-frequency spectrometer and note-frequency spectrograph with inertialess commutator; abstract. P. Vetterlein. Wireless Eng 19:272-3 Je '42

Radio progress during 1941; electroacoustics. bibliog(29 titles) Inst Radio Eng Proc 30:70-1 F '42

Survey on air raid alarm signals. J. E. Volkmann and M. L. Graham. il Acoustical Soc Am J 14:1-9 Jl '42

See also

Acoustic patents
Deaf, Instruments for
Dictating machines
Kundt tube
Loud speaking apparatus
Microphones
Moving pictures, Talking
Phonograph
Radio apparatus
Sound—Measurement
Sound—Recording and reproducing
Sound filters
Telephone

Bibliography

References to contemporary papers on acoustics. Published in quarterly numbers of Journal of the Acoustical society of America

Measurement

Acoustic impedance measurement. H. J. Sabine. bibliog il diags Acoustical Soc Am J 14:143-50 O '42

Acoustic performance of 16-millimeter sound motion-picture projectors. W. F. Snyder. bibliog pl diag U S Nat Bur Stand Circ C439:1-56; pa 15c Supt. of doc. '42

Acoustic properties of small cavities. P. E. Sabine. diags Acoustical Soc Am J 14:74-8 Jl '42

Acoustic tube for measuring the sound absorption coefficients of small samples. D. P. Loye and R. L. Morgan. il Acoustical Soc Am J 13:261-4 Ja '42

A.c. operated power supply for sound-level meters. il R Sci Instr 13:189-90 Ap '42

American standard for noise measurement. Acoustical Soc Am J 14:102-10 Jl '42

Causes and characteristics of transformer noise. J. Swaffield. diags Inst E E J 89 pt 1:212-24 My '42

Compact direct-reading reverberation meter. E. S. Seeley. il diags Soc Motion Picture Eng J 37:557-68 D '41

Determining sound attenuation in air conditioning systems. D. A. Wilbur and R. F. Simons. diags Heating-Piping 14:317-21; Discussion. 322 My '42

Distortion tests by the intermodulation method. J. K. Hilliard. diags Inst Radio Eng Proc 29:614-20 D '41

Evaluation of radio-noise-meter performance in terms of listening experience. C. M. Burrill. diag Inst Radio Eng Proc 30:473-8 O '42

Experiments with the noise analysis method of loudspeaker measurement. B. Olney. diags Acoustical Soc Am J 14:79-83 Jl '42

Ingenious sound room tests units on conveyer line; Westinghouse electric & manufacturing company. A. L. Atherton. il diags Mech Eng 64:799-801 N '42

Noise levels, how to figure them. W. Goodman. il Heating-Piping 13:737-9 D '41

Objective noise-meter reading in phons for sustained noises, with special reference to engineering plant. A. J. King and others. bibliog Inst E E J 88 pt 2:163-76 Je '41; Discussion. 88 pt 2:176-82, 610-12 Je, D '41

Recording machinery noise characteristics. H. D. Brailsford. il diags Electronics 15:46-51+ N '42

Selecting speakers for specified sound levels. R. P. Glover. diag plan Radio N 27:24-5+ Ap '42

Sound power density fields. J. H. Enns and F. A. Firestone. diags Acoustical Soc Am J 14:24-31 Jl '42

Things you ought to know about transformer noise. H. Fahnoe. il Power Pl Eng 46:60-2 Je '42

Recording and reproducing

Analytic treatment of tracking error and notes on optimal pick-up design. H. G. Baerwald. bibliog diags Soc Motion Picture Eng J 37:591-622 D '41

Build your own multi-speed turntable. M. P. Odell. il diags Radio N 26:10-13+ D '41

Control tower operations recorded on 24-hour basis; sound recorders for radio messages. il Aviation 41:165 Ap '42

Correlation between elastic deformation and vertical forces in lateral recording. S. J. Begun and T. E. Lynch. bibliog diags Acoustical Soc Am J 13:284-7 Ja '42; Correction. 13:392 Ap '42

Discussion of several factors contributing to good recording. R. A. Lynn. il diags RCA R 6:463-72 Ap '42

Distortion tests by the intermodulation method. J. K. Hilliard. diags Inst Radio Eng Proc 29:614-20 D '41

Double talk on the record; the Audograph. il Mod Plastics 19:42+ F '42

SOUND—Recording and reproducing—*Cont.*

Embossed groove recording; Soundscriber system. L. Thompson. il diags Electronics 15:30-3+ Mr '42
Flexible equalizing amplifier; used for equalizing loudspeakers, recording heads, playback equipment, or telephone lines. E. G. Cook. il diags Electronics 15:36-41+ Jl '42
Hearing, the determining factor for high-fidelity transmission. H. Fletcher. bibliog diags Inst Radio Eng Proc 30:266-77 Je '42
How to make good recordings. rev ed 128p $1.25 Audio devices, 1600 Broadway, New York '42
Large radius stylus for the reproduction of lateral cut phonograph records. J. D. Reid. diags Acoustical Soc Am J 13:274-5 Ja '42
Magnetic recording on steel. Radio N 28:42 S '42
Modern music recording studio; action of convex wood splays. M. Rettinger. bibliog il Soc Motion Picture Eng J 39:186-94 S '42
Optimum response scanning slit-image; sound reproduction from film. G. Logan. diags Electronics 15:140-2 Je '42
Poor man's recorder. L. M. Dezettel. il diags Radio N 27:26-7+ Mr '42
Preamplifier-filter for crystal pickup. C. Affelder. diag Electronics 15:78 Ap '42
Properties of the dulled lacquer cutting stylus. C. J. LeBel. diags Acoustical Soc Am J 13:265-73 Ja '42
Recent developments in record reproducing systems; abstract. C. L. Beers and C. M. Sinnett. diags Electronics 15:62, 64 Ag '42
Recording and reproducing standards. L. C. Smeby. Inst Radio Eng Proc 30:355-6 Ag '42
Recording laboratory in the Library of Congress. J. B. Wiesner. il Acoustical Soc Am J 13:288-93 Ja '42
Recording machinery noise characteristics. H. D. Brailsford. il diags Electronics 15:46-51+ N '42
Sound-on-film recording. W. L. Woolf. il diags Radio N 26:17-20 D '41
Stereophonic sound film system. diags J Ap Phys 13:32-3 Ja '42
Theory and practice of disc recording. O. Read. il diags Radio N 26:17+ S; 31-2+ O; 31+ N; 27-8+ D '41; 27:29+ F; 19+ Mr; 24-5+ Je; 28:24-5 Jl; 18-19+ S '42
Tracing distortion in the reproduction of constant amplitude recordings. L. W. Sepmeyer. Acoustical Soc Am J 13:276-80 Ja '42

See also
Dictating machines
Moving picture sound recording
Moving pictures, Talking
Phonograph

Terminology

American standard acoustical terminology. Acoustical Soc Am J 14:84-101 Jl '42

Velocity

Improved apparatus for supersonic velocity and absorption measurements. D. Telfair and W. H. Pielemeier. bibliog diags R Sci Instr 13:122-6 Mr '42
Propagation of sound through the atmosphere; bearing on audibility of aircraft and on exploration of altitudes. B. Haurwitz. bibliog map J Aeronautical Sci 9:35-43 D '41
Propagation of sound waves in the atmosphere; sound velocity in humid air. B. Gutenberg. bibliog Acoustical Soc Am J 14:151 O '42
Translational dispersion of sound in gases. H. Primakoff. bibliog Acoustical Soc Am J 14:14-18 Jl '42
Velocity of sound in air. H. C. Hardy, D. Telfair and W. H. Pielemeier. bibliog Acoustical Soc Am J 13:226-33 Ja '42
Velocity of sound in methyl methacrylate polymer. L. R. Weber and F. P. Goeder. bibliog Phys R 61:94-5 Ja 1 '42

SOUND absorbent materials

Acoustic impedance of porous materials. L. L. Beranek. diags Acoustical Soc Am J 13:248-60 Ja '42
Acoustic tube for measuring the sound absorption coefficients of small samples. D. P. Loye and R. L. Morgan. il Acoustical Soc Am J 13:261-4 Ja '42
Felt meets wartime demands. C. Carmichael. diags Machine Design 14:65-6 O '42
Fiberglas quiets roar in test cells. il Aviation 41:104-5 Ja '42
Insulation in air conditioning. il Dom Eng 158:67+ D '41
Measurement of flow resistance of porous acoustic materials. R. L. Brown and R. H. Bolt. bibliog diag Acoustical Soc Am J 13:337-44 Ap '42
Owens-Corning fiberglas corporation; sound stacks for absorption of noises set up by airplane engines and propellers while they are being tested. il J Aeronautical Sci Aeronautical R Sec 9:47 D '41

See also
Soundproofing

SOUND filters

Acoustic filtration by membranes. L. W. Labaw. il Acoustical Soc Am J 13:353-9 Ap '42
Acoustic filtration in parallel conduit structures. L. W. Labaw. il Acoustical Soc Am J 13:345-52 Ap '42

SOUND-level meters. See Sound—Measurement

SOUND perception. See Hearing

SOUND recording, Moving picture. See Moving picture sound recording

SOUND waves

Acoustic filtration by membranes. L. W. Labaw. il Acoustical Soc Am J 13:353-9 Ap '42
Acoustic filtration in parallel conduit structures. L. W. Labaw. il Acoustical Soc Am J 13:345-52 Ap '42
Modulus of elasticity of dinnerware bodies by a sonic-vibration method. S. V. Forgue and G. A. Loomis. bibliog il diags Am Cer Soc Bul 20:425-30 D '41
Perturbation of sound waves in irregular rooms. R. H. Bolt, H. Feshbach and A. M. Clogston. bibliog Acoustical Soc Am J 14:65-73 Jl '42
Position finding by waves. Engineer 173:360-1 My 1 '42
Propagation of sound through the atmosphere; bearing on audibility of aircraft and on exploration of altitudes. B. Haurwitz. bibliog map J Aeronautical Sci 9:35-43 D '41
Propagation of sound waves in the atmosphere. B. Gutenberg. bibliog Acoustical Soc Am J 14:151-5 O '42
Translational dispersion of sound in gases. H. Primakoff. bibliog Acoustical Soc Am J 14:14-18 Jl '42

See also
Ultrasonic waves

SOUNDING

Answer, echo, answer; use of Fathometer by United States Coast and geodetic survey's ship Oceanographer. R. Hallett. il Tech R 44:311-12+ My '42

SOUNDPROOFING

Bases for sound insulation of fans and motors. il diags Sheet Metal Worker 33:102, 104+ Ja '42
Better concentration reduces employee turnover 47%; adjustment of noise factor increased general efficiency 8.8%. A. Wilson. Bankers Mo 59:254-5 Je '42
Building insulation; a treatise on the principles and application of heat and sound insulation for buildings. P. D. Close. 328p $3 Am. technical soc, Chicago '41
Burgess model 207 acousti-booth. il Diesel Power 20:489 Je '42
Fight for the ceiling; air conditioning engineer, lighting engineer and the acoustical engineer, each must claim part of ceiling for his equipment. K. C. Porter. il Heating-Piping 14:484-5 Ag '42
Glass wool ends noise problem in test cells for airplane engines. il Eng N 128:823 My 14 '42

SOUNDPROOFING—*Continued*

Ingenious sound room tests units on conveyer line; Westinghouse electric & manufacturing company. A. L. Atherton. il diags Mech Eng 64:799-801 N '42

Let us spray; Sprayo-Flake. il R Sci Instr 12:618 D '41

Practical acoustics and planning against noise. H. Bagenal. 140p $2.50 Chemical pub. co. '42

Radio City (San Francisco), where air conditioning is an essential service; elimination of sound and vibraton. il Dom Eng 159: 42-3+ Je '42

See also

Acoustics, Architectural

Sound absorbent materials

SOUP

Nutritious soup made of skim milk powder, peanut flour, soya flour and peas; abstract. R. S. Harris. Science 96:sup10 O 30 '42

Standards

Soup simmers; ready-to-serve canning liquidated by tin restriction; WPB's nutritive standards. Business Week p60+ My 9 '42

SOUTH

Below the Potomac; a book about the new South. V. Dabney. 332p $3 Appleton-Century '42

Red hills and cotton; an upcountry memory. B. Robertson. 296p $2.50 Knopf '42

Some basic considerations in planning for research in southern problems. G. H. Boyd. Science 96:71-4 Jl 24 '42

Tasks before us. W. F. Rudd. Science 95: 422-5 Ap 24 '42

Biography

Bibliography

Southern bibliography; biography, 1929-1941. J. M. Agnew, comp. 173p pa $1.25 Louisiana state univ. press, University station, Baton Rouge '42

Civilization

Old South; the founding of American civilization. T. J. Wertenbaker. 364p $3.50 Scribner '42

Economic conditions

Small town South. S. Byrd. 237p $2.75 Houghton '42

Industries and resources

Challenge to business leadership in the South. R. Arant. Manuf Rec 111:20-1, 42+ Ag '42

Cork growing industry for the South. il map Manuf Rec 111:26-7 Ag '42

Research, industry, and the South. M. H. Fies. Manuf Rec 111:24+ S '42

South at the crossroads. E. Morrell. Manuf Rec 111:24-5+ Ap '42

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:18-27+ Ja; 28-35+ F '42

Why Sears is pushing southern industrial development. E. Whitmore. il Am Business 12:12-14+ Ja '42

See also

Building—Southern states

Paper industry and trade—Southern states

Social conditions

Deep South; a social anthropological study of caste and class. A. Davis, B. B. Gardner and M. R. Gardner. 558p $4.50 Univ. of Chicago press '41

SOUTH AFRICA

General Smuts on trusteeship. Economist 142:142 Ja 31 '42

Plans for a better world; speeches. J. C. Smuts. 288p 8s 6d Hodder and Stoughton, London '42

See also

Cooperation—South Africa

Gold mines and mining—South Africa

Roads—South Africa

Rubber industry and trade—South Africa

Steel industry and trade—South Africa

Bibliography

Select bibliography of South African native life and problems. 249p $2.85 Oxford '41

Economic conditions

South Africa in 1941. Economist 142:sup9-10 Mr 14 '42

Economic policy

Post-war reconstruction policy in South Africa. Int Labour R 45:302-5 Mr '42

Proposals for a social and economic planning council in South Africa. Int Labour R 45:537-41 My '42

Industries and resources

Growth of South African industries. Engineer 174:54 Jl 17 '42

South Africa's war effort. Engineer 172:452-3 D 26 '41

Union of South Africa. H. T. Goldstein. il For Comm W 8:5-9 Ag 22 '42

SOUTH AMERICA

By Pan American highway through South America. H. C. Lanks. 205p $5 Appleton-Century '42

Engineer looks at South America. J. C. Cosgrove. il maps Explosives Eng 19:199-200, 214-15, 230-4, 271-6, 300-5, 336-41, 361-6; 20:20-4, 54-8, 75-80, 115-18 Jl '41-Ap '42

South American primer. K. C. Rodell. rev ed 234p bibliog(p224-5) $1.75 Reynal & Hitchcock, New York '41

See also

Botany, Economic—South America

Latin America

Commerce

New record volume of South American trade foreseen with consequent money stabilization. D. S. Iglehart. Comm & Fin Chr 155: 2033+ My 28 '42

Notes from South America. Engineering 153: 147-8, 304, 344 F 20, Ap 17, My 1 '42

See also

Latin America—Commerce

Economic conditions

South American countries need industry to develop resources. J. D. Gill. il Oil & Gas J 40:82, 84+ Ja 29 '42

Industries and resources

Notes from South America. Engineering 153: 425 My 29 '42

South American countries need industry to develop resources. J. D. Gill. il Oil & Gas J 40:82, 84+ Ja 29 '42

South America's textile industries. S. L. Bull. For Comm W 5:8-9 D 20 '41

SOUTH BEND, Indiana

Industries

South Bend proves value of skull practice. F. H. McConnell. maps Barron's 22:8-9 Ap 27 '42

SOUTH Buffalo railway

Examiners' report on South Buffalo; would have I.C.C. condemn various practices. Ry Age 112:796-8 Ap 18 '42

SOUTH CAROLINA

See also

Chemical industries—South Carolina

SOUTH CAROLINA electric and gas company

Merger hearing set. Comm & Fin Chr 156: 870 S 7 '42

SOUTH CAROLINA insurance company

Changes financing plans. Comm & Fin Chr 155:1685-6 Ap 27 '42

SOUTH DAKOTA
See also
Paleontology—South Dakota
Water supply—South Dakota

Industries and resources

Effect of gold mines closing on South Dakota's economy. Comm & Fin Chr 156:1432 O 22 '42

SOUTH SEA islands
South Sea islanders; review of South seas in the modern world, by F. M. Keesing. Economist 143:408-9 O 3 '42

SOUTHALL, Sara
Portrait. Business Week p32 O 3 '42

SOUTHEASTERN industrial loan company
Findings and opinions in the matter of Southeastern industrial loan company. J. L. Dohr. J Account 73:95 Ja '42

SOUTHEASTERN underwriters association
Annual meeting, Hot Springs, Va., June 15-17. Nat Underw 46:1 Je 18 '42
Changes in rules and regulations. Nat Underw 46:16 Ap 16 '42

SOUTHERN association of science and industry
Annual meeting, 2d, Atlanta, April 2-3. Science 95:533-4 My 22 '42
Some basic considerations in planning for research in southern problems. G. H. Boyd. Science 96:71-4 Jl 24 '42

SOUTHERN Bell telephone and telegraph company
Earnings, 1938-1941. Comm & Fin Chr 155:1220 Mr 23 '42
$35,000,000 debentures placed privately. Comm & Fin Chr 156:701 Ag 24 '42

SOUTHERN Colorado power company
Files amended plan with the SEC. Comm & Fin Chr 156:1157 S 28 '42

SOUTHERN combed yarn spinners association
Annual meeting, Charlotte, N.C. Sept. 18. Textile World 92:74-5 O '42

SOUTHERN gas association
Annual meeting, 34th, Atlanta, Feb. 9-10. Gas Age 89:10-11+ F 26 '42

SOUTHERN natural gas company
Financial status. O. Ely. Pub Util 29:232-4 F 12 '42

SOUTHERN New England telephone company
Earnings, 1938-1941. Comm & Fin Chr 155:1220 Mr 23 '42

SOUTHERN Pacific railroad
A. D. McDonald dies. Ry Age 111:883-4 N 22 '41
Annual report. Comm & Fin Chr 155:926-7 Mr 2 '42
Annual report, year ended Dec. 31, 1941. Ry Age 112:839-42 Ap 25 '42
Armand T. Mercier elected president. Ry Age 111:999-1000 D 13 '41
Common stocks in strategic position. Mag of Wall St 69:514 F 7 '42
Equipment trusts certificates awarded. Comm & Fin Chr 154:1632-3 D 23 '41
Favored stock from $10 to $25. Mag of Wall St Manual p15 Ap '42
4% on bond due in one year; San Antonio & Aransas Pass first 4s. M. Pescatello. Barron's 22:19 Ap 20 '42
Military effort strongly reflected in S.P. report. Ry Age 112:451-3 F 28 '42
Rail securities for appreciation. S. Devlin. Mag of Wall St 70:570-1 S 5 '42
Railroad securities. Comm & Fin Chr 156:525 Ag 13 '42
Railroad securities. Comm & Fin Chr 156:973 S 17 '42
Signs of life; Mexican subsidiary of Southern Pacific. Business Week p91-2 My 23 '42
Southern Pacific secured 3¾s, 1946. Comm & Fin Chr 155:2197 Je 11 '42
Southern Pacific's long term recovery. Barron's 22:19 N 9 '42
They're crowding the rails; the overland transportation problem, growing more acute with mounting war production, is coming to a head on the Southern Pacific. il Fortune 25:82-9+ Je '42

SOUTHERN paint and varnish production club
Change name of Southern states federation associates. Paint Oil & Chem R 104:22 Jl 16 '42

SOUTHERN Pennsylvania bus company
Southern Pennsylvania bus company; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:539 N '41

SOUTHERN railway
Annual report, 48th. Comm & Fin Chr 155:1332-3 Ap 2 '42
Must pay dividends on worthless stock of defunct railroad; Southern must continue dividends on stock of Mobile & Ohio. Ry Age 112:231-2 Ja 17 '42
Ordered to pay on Mobile & Ohio certificates. Comm & Fin Chr 155:269 Ja 17 '42
Rail securities for appreciation. S. Devlin Mag of Wall St 70:570 S 5 '42

SOUTHERN union gas company
Amends registration statement. Comm & Fin Chr 156:1510 O 26 '42
Plan of reorganization. Comm & Fin Chr 156:1334-5 O 12 '42
SEC acts against company. Comm & Fin Chr 155:2287 Je 15 '42
Stock filed with SEC in proposed merger of southwest utilities. Comm & Fin Chr 156:1245 O 5 '42

SOUTHWEST

Antiquities

Southwestern archaeology. J. C. McGregor. 403p bibliog(p380-92) $5 Wiley '41

Industries and resources

Southwestern chemical resources and trends. il maps Chem & Met Eng 49:90-104 Je '42

SOUTHWESTERN public service company
Registers with SEC. Comm & Fin Chr 155:1419 Ap 6 '42
$34,400,000 offering of securities. Comm & Fin Chr 156:1060-1 S 21 '42

SOXHLET extractor. See Extraction apparatus

SOYBEAN flour
Determination of soybean flour in sausages and other meat products; a protein separation method. J. Bailey. bibliog(71 references) Ind & Eng Chem Anal ed 14:776-81 O 15 '42

SOYBEAN meal
Heat denaturation of protein in soybean meal. A. C. Beckel, W. C. Bull and T. H. Hopper. bibliog Ind & Eng Chem 34:973-6 Ag '42
Plastics from agricultural materials. O. R. Sweeney and L. K. Arnold. bibliog il diags Iowa Eng Exp Sta (Ames) Bul 154:1-23 '42

SOYBEAN oil
Antioxidants and autoxidation of fats; the isolation of new antioxidants from vegetable fats. C. Golumbic. bibliog Am Chem Soc J 64:2337-40 O '42
Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42
Expression of vegetable oils; general equation on oil expression. E. C. Koo. bibliog Ind & Eng Chem 34:342-5 Mr '42
Extraction of oil from a porous solid. D. F. Boucher, J. C. Brier and J. O. Osburn. bibliog diags Am Inst Chem Eng Trans 38:967-92 O '42; Abstracts. Chem & Eng N 20:663 My 25 '42; Chem & Met Eng 49:150 Je '42; Discussion. Am Inst Chem Eng Trans 38:992-3 O '42
Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42
Gloss retention and wood protection merits of phenolic resin-soybean oil varnishes. A. J. Lewis. Paint Oil & Chem R 104:7-8 Ja 15 '42
More soy bean oil plants; hazards analyzed. M. E. Bulske. Nat Underw 46:6 Ap 9 '42
Phosphatides from soybean oil. M. H. Thornton and H. R. Kraybill. bibliog Ind & Eng Chem 34:625-8 My '42

SOYBEAN oil—*Continued*

Soybean oil output rests on transportation. Oil Paint & Drug Rep 142:7+ N 2 '42

Traffic paint substitute. Eng N 127:881 D 18 '41

Analysis

Photometric determination of acetone-insoluble material in soybean oil; relation of acetone-insoluble material to break. C. A. Murray and E. B. Oberg. Ind & Eng Chem Anal ed 14:785-7 O 15 '42

SOYBEANS

From soy bean to textile fiber; process as carried out in plant of Ford motor company; illustrations. Textile World 92:79 Je '42

Genistin (an isoflavone glucoside) and its aglucone, genistein, from soybeans. E. D. Walter. bibliog il Am Chem Soc J 63:3273-6 D '41

Miracle beans. il Sci Am 167:216-18 N '42

Rise of the soya industry. Chem Age (Lond) 47:21-2 Jl 11 '42

Soybean fiber now being produced on limited scale. Sci Am 166:176 Ap '42

Soybean line of packages. il Mod Packaging 15:54 Je '42

Soybean loan values revised. Oil Paint & Drug Rep 142:3 S 28 '42

Soybean program. Comm & Fin Chr 155:954 Mr 5 '42

Soybean protein; adhesive strength and color. A. K. Smith and H. J. Max. bibliog Ind & Eng Chem 34:817-20 Jl '42

Soybean protein fibres. Can Chem & Process Ind 26:408 Jl '42

Soybean protein fibers. R. A. Boyer. il Mod Plastics 19:48-9+ F '42

Soybean rubber substitute. Science 95:sup10+ Ja 9 '42

Soybeans face a bright future; abstract. G. G. McIlroy. Sci Am 167:30 Jl '42

Soybeans, gold from the soil. E. J. Dies. 122p bibliog(p101-18) $1.75 Macmillan '42

Use of soya lecithin will save scarce fats. J. Stanley. bibliog Food Ind 14:69-71 Jl '42

Prices

Soybean crushers' contract detailed. Oil Paint & Drug Rep 142:3+ S 14 '42

SPACE

Comparison spaces in general relativity. W. Band. bibliog Phys R 61:702-7 Je 1 '42

Is space-time flat? W. Band. bibliog Phys R 61:698-701 Je 1 '42

SPACE, Interstellar

Molecular spectra of astronomical interest. H. N. Russell. Sci Am 166:18-19 Ja '42

SPACE charge

Fluctuations of space-charge-limited currents in diodes. F. C. Williams. bibliog diag Inst E E J 88 pt 3:219-29; Discussion. 229-37 D '41

Propagation of electromagnetic waves in a space charge rotating in a magnetic field. J. P. Blewett and S. Ramo. diag J Ap Phys 12:856-9 D '41

SPACE groups. See Crystallography

SPACE selling. See Advertising, Soliciting of

SPAGHETTI

Argue standards for spaghetti and macaroni; F&DA hearing. Food Ind 13:75-6 D '41

SPAIN

See also

Lead mines and mining—Spain
Mines and mineral resources—Spain
Social laws and legislation—Spain
World war, 1939—Spain

Cultural relations

Relations between Spain and South America. Economist 142:41-2 Ja 10 '42

Economic conditions

News by countries. For Comm W 5:17-18 D 20 '41

Politics and government

Spain's plight. Economist 143:323-4 S 12 '42

SPANISH America. See Latin America

SPANISH language

Glossaries

Glossary of certain child-welfare terms in Spanish, Portuguese, French and English. A. K. Smith. U S Children's Bur Pub 271: 1-115; pa 15c Supt. of doc. '42

Study and teaching

Language schools get run on Spanish, Russian, Portuguese. Ptr Ink 199:18 Ap 3 '42

SPARK arresters

Spark arresters for stacks. Safety Eng 83: 29 Je '42

SPARK gap

Electric spark in air. J. M. Meek. Inst E E J 89 pt 1:335-51 bibliog(p350-1) Ag '42; Abstracts. Elec R (Lond) 130:243-4 F 20 '42; Electrician 128:203-4 Mr 6 '42; Discussion. Inst E E J 89 pt 1:352-6 Ag '42; Elec R (Lond) 130:274-5 F 27 '42; Electrician 128:203-4 Mr 6 '42

Electrical strength of nitrogen and Freon under pressure. H. H. Skilling and W. C. Brenner. bibliog Elec Eng 61:Trans 191-5 Ap '42

Gaps can be used instead of arresters. B. E. Ellsworth. diag Elec W 118:472 Ag 8 '42

Protection from lightning. W. S. Sholl. Electrician 129:243-4 S 4 '42

Spill-gaps save fuse replacement labor. il Elec W 117:1865-6 My 30 '42

Surge propagation; measurement of electric pressures by means of a spark-gap. T. F. Wall. diags Engineering 153:261-2 Ap 3 '42

SPARK plugs

Heli-coil spark plug bushing. H. Caminez. il diags Aviation 41:80-1+ Mr '42

Large scale extraction of polonium from active lead and formation of radioactive electrode alloys. J. H. Dillon and J. N. Street. bibliog il J Ap Phys 13:189-98 Mr '42

Polonium sparking plugs. Automobile Eng 32:330 Ag '42

SPARK testing. See Steel—Testing—Spark testing

SPARKS

Friction sparks. M. B. Anfenger and O. W. Johnson. Am Pet Inst Proc 22(1):54-5; Discussion. 55-6 '41

Sparks from aluminum-painted steel; abstract. T. S. E. Thomas. Metals & Alloys 15:158 Ja '42; Same. Oil & Gas J 41:44 Jl 2 '42

SPARKS, Electric. See Electric sparks

SPARKS-WITHINGTON company

Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:593 S 19 '42

SPARLING, Jake L., 1882-

Nation's smallest defense plant has won the recognition of the White House. il Paper Ind 24:679 O '42

War story: two men and a dog. por Business Week p38 S 5 '42

SPECIAL collections. See Libraries—Special collections

SPECIAL files. See Cataloging—Special files

SPECIAL librarians. See Librarians, Special

SPECIAL libraries. See Libraries, Special

SPECIAL libraries association

Annual report of Chapter liaison officer and editor of Chapter town crier. G. R. Haskin. Special Lib 33:207-12 Jl-Ag '42

Committee on cooperation with special libraries in Latin America. L. Ash, jr. Special Lib 32:383-5 D '41

Financial librarians hold annual meeting, Detroit, June 20. Comm & Fin Chr 156:10 Jl 2 '42

Handbook, supplement to Special libraries; membership list, committees, constitution and by-laws, general information. Special Lib 33:1-78 pt 2 F '42

President's report, 1941-1942. L. A. Woodward. Special Lib 33:199-206 Jl-Ag '42

SPECIAL libraries association—*Continued*

S.L.A. chapter presidents, group and standing committee chairmen, special representatives and editors, 1942-1943. Special Lib 33: 260-1 S '42

SLA executive board and advisory council notes. Special Lib 33:91-3 Mr '42

Thirty-fourth annual convention. Special Lib 33:189-98 Jl-Ag '42

Public relations committee

National defense as a challenge to our Public relations committee. W. F. Jacob. Special Lib 32:345-7 N '41

Program. Special Lib 32:339-40 N '41

SPECIAL weeks. See Advertising campaigns—Special weeks

SPECIALIST corps. See United States—Army—Specialist corps

SPECIALTY accounting supply manufacturers association

Sales book firms get desist order. Paper Tr J 115:15 S 17 '42

SPECIALTY stores

Operating results of department and specialty stores in 1941, by C. A. Bliss; Department store financial requirements, 1920-1940, by P. Hunt and A. R. Koch. (Bur. of business research bul. 115) 62p pa $2.50 Harvard univ. Graduate school of business administration, Boston '42

SPECIES, Origin of

Drosophila and speciation. J. T. Patterson. Science 95:153-9 F 13 '42

SPECIFIC dispersion

Specific dispersion of pure hydrocarbons. R. E. Thorpe and R. G. Larsen. bibliog(72 references) Ind & Eng Chem 34:853-63 Jl '42

SPECIFIC gravity

Analysis of the ternary system ethanol-methanol-water; requiring boiling point, refractive index, and specific gravity of the sample. J. Griswold and J. A. Dinwiddie. bibliog Ind & Eng Chem Anal ed 14: 299-300 Ap 15 '42

Approved tables of volume-temperature correction factors for liquefied petroleum gases. Nat Pet N 34 pt2:R240-3 Jl 29 '42

Densities and specific heats of aqueous solutions of *dl*-α-alanine, β-alanine and lactamide. F. T. Glucker, jr. and T. W. Allen. bibliog Am Chem Soc J 64:191-9 F '42

Densities of liquefied petroleum gases. bibliog diags Ind & Eng Chem 34:1240-3 O '42

Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

Density and porosity of carbonaceous materials; measured with helium, water and mercury as filling fluids. R. C. Smith, jr. and H. C. Howard. bibliog diag Ind & Eng Chem 34:438-41 Ap '42

Density of oil-field liquids. G. M. Stearns. Oil & Gas J 40:237 Mr 26 '42

Density of sodium chloride; the atomic weight of fluorine by combination of crystal density and X-ray data. H. J. Johnston and D. A. Hutchinson. Phys R 62:32-6 Jl 1 '42

Determining liquid and vapor densities in closed systems; a precise method. G. H. Wagner, G. C. Bailey and W. G. Eversole. diag Ind & Eng Chem Anal ed 14:129-31 F 15 '42

Estimating the density of tobacco tissue. F. R. Darkis, P. M. Pedersen and P. M. Gross. bibliog Ind & Eng Chem Anal ed 14:8-9 Ja 15 '42

Gas specific gravity meter makes heat-treating furnace safe. E. Pick. Instruments 15: 28+ Ja '42

Partial molal volumes of nickel sulfate solutions. R. W. Gelbach and H. M. Louderback. Am Chem Soc J 64:2379 O '42

Rapid determination of the specific gravity of plastic materials. H. F. Palmer and W. E. Jones. il diag Ind & Eng Chem Anal ed 13:864-7 D 15 '41

Relation of permeability and specific gravity of insulating refractories. P. G. Herold, L. Stearns and W. J. Smothers. diag Mo U Sch Mines & Met Bul tech ser v 14 no 4:1-51 '42

Specific gravity of petroleum oils by the falling drop method. A. J. Hoiberg. bibliog diag Ind & Eng Chem Anal ed 14:323-5 Ap 15 '42

Specific gravity of sodium dichromate solutions. D. F. Altimier. Am Chem Soc J 64: 175-6 Ja '42

Specific gravity; the Baume and Twaddell scales for liquids; tables. Chem Ind 49:530 pt 2 (Buyer's guidebook) O '41

Study of organic parachors; constitutive variations of the parachors of a series of normal ketones. K. Owen, O. R. Quayle and W. J. Clegg. Am Chem Soc J 64:1294-6 Je '42

Surface tension, liquid density, and vapor density of sulfur dioxide solutions of potassium thiocyanate at 10°, 15°, 20°, and 25°C. W. G. Eversole, G. H. Wagner and G. C. Bailey. bibliog diag J Phys Chem 45:1388-97 D '41

Temperature and composition coefficients of the density, refractive index, and viscosity of the methyl alcohol-dioxane system. E. S. Amis, A. R. Choppin and F. L. Padgitt. bibliog Am Chem Soc J 64:1207-12 My '42

SPECIFIC heat

Apparent molal heat capacities and volumes of the amino acids and their uncharged isomers. F. T. Gucker, jr., I. M. Klotz and T. W. Allen. bibliog Chem R 30:181-93 Ap '42

Densities and specific heats of aqueous solutions of *dl*-α-alanine, β-alanine and lactamide. F. T. Gucker, jr. and T. W. Allen. bibliog Am Chem Soc J 64:191-9 F '42

Empirical heat capacity equations of gases. H. M. Spencer and G. N. Flannagan. bibliog Am Chem Soc J 64:2511-13 O '42

Energy states of solids; evidence from thermal data for the existence of low electronic energy levels in europium ion; the heat capacity of europium sulfate octahydrate from 60 to 300°K. E. A. Long and R. A. Degraff. bibliog Am Chem Soc J 64:1346-9 Je '42

Entropies of nitric acid and its mono- and tri-hydrates; their heat capacities from 15 to 300°K; the heats of dilution at 289.1°K; the internal rotation and free energy of nitric acid gas; the partial pressures over its aqueous solutions. W. R. Forsythe and W. F. Giauque. bibliog Am Chem Soc J 64:48-61 Ja '42

Equations for the specific heats of gases. J. C. Smallwood. Ind & Eng Chem 34: 863-4 Jl '42

Frequency spectrum of crystalline solids. E. W. Montroll. J Chem Phys 10:218-29 Ap '42

Heat capacities of red and yellow lead monoxides at high temperatures. H. M. Spencer and W. M. Spicer. bibliog diags Am Chem Soc J 64:617-21 Mr '42

Heat capacity and entropy, heats of fusion and vaporization and the vapor pressures of isopentane. S. C. Schumann, J. G. Aston and M. Sagenkahn. bibliog Am Chem Soc J 64:1039-43 My '42

Heat capacity and vapor pressure hysteresis in liquid isopentane; isomers due to hindered rotation. J. G. Aston and S. C. Schumann. bibliog Am Chem Soc J 64:1034-8 My '42

Heat capacity, entropy, and heats of transition, fusion, and vaporization of dimethylacetylene; free rotation in the dimethylacetylene molecule. D. M. Yost, D. W. Osborne and C. S. Garner. bibliog Am Chem Soc J 63:3492-6 D '41

Heat capacity, entropy, heats of fusion and vaporization and vapor pressure of fluorotrichloromethane. D. W. Osborne and others. bibliog Am Chem Soc J 63:3496-9 D '41

Heat capacity, heats of fusion and vaporization, vapor pressure and entropy of dimethyl sulfide. D. W. Osborne, R. N. Doescher and D. M. Yost. bibliog Am Chem Soc J 64:169-72 Ja '42

SPECIFIC heat—*Continued*

Heat capacity of benzene-d_6. W. T. Ziegler and D. H. Andrews. bibliog Am Chem Soc J 64:2482-5 O '42

Heat capacity of certain halomethanes. G. Glockler and W. F. Edgell. bibliog il Ind & Eng Chem 34:532-4 My '42

Heat capacity of organic vapors; a comparison of flow calorimeters. J. B. Montgomery and T. De Vries. diags Am Chem Soc J 64:2372-5 O '42

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

Heat capacity of organic vapors; nitromethane. T. De Vries and B. T. Collins. Am Chem Soc J 64:1224-5 My '42

Heat of fusion and the heat capacities of solid and liquid white phosphorus. F. E. Young and J. H. Hildebrand. bibliog Am Chem Soc J 64:839-40 Ap '42

Improved apparatus for supersonic velocity and absorption measurements. D. Telfair and W. H. Pielemeier. bibliog diags R Sci Instr 13:122-6 Mr '42

Magnetism and the third law of thermodynamics; the heat capacity of manganous fluoride from 13 to 320°K. J. W. Stout and H. E. Adams. bibliog Am Chem Soc J 64:1535-8 Jl '42

Modified calorimeter for high temperatures; the heat content of silica, wollastonite and thorium dioxide above 25°. J. C. Southard. bibliog diag Am Chem Soc J 63:3142-6 N '41

Nitromethane; the heat capacity of the gas, the vapor density, and the barrier to internal rotation. K. S. Pitzer and W. D. Gwinn. bibliog Am Chem Soc J 63:3313-16 D '41

Phase transitions; the heat capacity of nickel nitrate hexammoniate from 54 to 300°K; the transition at 243°K. E. A. Long and F. C. Toettcher. bibliog Am Chem Soc J 64:629-32 Mr '42

Some heat capacity data for gaseous 2,2,4-trimethylpentane. M. Kiperash and G. S. Parks. Am Chem Soc J 64:179 Ja '42

Some heats of dilution and related thermal quantities of aqueous cadmium chloride, bromide, and iodide solutions. A. L. Robinson and W. E. Wallace. bibliog Chem R 30:195-209 Ap '42

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42

Specific heat of the synthetic rubber Hycar O.R. from 15° to 340° K. N. Bekkedahl and R. B. Scott. bibliog J Research Nat Bur Stand 29:87-95 Jl '42

Specific heat of thermal insulating materials. G. B. Wilkes and C. O. Wood. il diags Heating-Piping 14:370-4 Je '42

Specific heats and heats of dilution of concentrated sodium hydroxide solutions. H. R. Wilson and W. L. McCabe. bibliog il diags charts Ind & Eng Chem 34:558-66 My '42

Specific heats of morpholine and its aqueous solutions. H. M. Trimble and others. Am Chem Soc J 64:679-81 Mr '42

Statistical mechanics of nearest neighbor systems; general theory and application to two-dimensional ferromagnets. E. W. Montroll. J Chem Phys 10:61-77 Ja '42

Supersonic measurement of the heat capacity of propylene. D. Telfair. bibliog J Chem Phys 10:167-71 Mr '42

Thermal properties of crystalline and glassy boron trioxide. J. C. Southard. Am Chem Soc J 63:3147-50 N '41

SPECIFIC surface

Fundamental study of clay; surface area and its effect on exchange capacity of kaolinite. A. L. Johnson and W. G. Lawrence. bibliog Am Cer Soc J 25:344-6 Ag 1 '42

Improved hydrometer method for use in fineness determinations. A. Klein. diag Am Soc T M Proc 41:953-66 '41

Measuring the specific surface of particulate substances; a water vapor adsorption method. D. Smith and H. Green. bibliog diag Ind & Eng Chem Anal ed 14:382-6 My 15 '42

New method for measuring specific surface of pulps, artificial silk fibers, and similar materials; use of silver film and hydrogen peroxide. J. d'A. Clark. bibliog il diag chart Paper Tr J 115:32-9 Jl 2 '42; Excerpts. Paper Ind 24:640+ S '42

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14:622-32 Ag 15 '42

SPECIFIC volume

Methane-isobutane system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1008-13 Ag '42

Phase equilibria in hydrocarbon systems; thermodynamic properties of *n*-pentane. B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:730-7 Je '42

Phase equilibria in hydrocarbon systems; volumetric and phase behavior of methane-*n*-pentane system. B. H. Sage and others. bibliog Ind & Eng Chem 34:1108-17 S '42

P-V-T relations and derived quantities for hexanes. E. A. Kelso and W. A. Felsing. bibliog Ind & Eng Chem 34:161-3 F '42

Specific volumes and phase-boundary properties of separator-gas and liquid-hydrocarbon mixtures. K. Eilerts and R. V. Smith. il diags U S Bur Mines Rep of Invest 3642:1-57 '42

SPECIFICATIONS

Form and arrangement of specifications. R. T. Retz. Civil Eng 12:135-6 Mr '42

Government emergency specifications save scarce materials. C. L. Warwick. il Ind Stand 13:141-5 Je '42

Material specification principles. F. G. Jenkins. bibliog Mech Eng 63:900-3 D '41

Materials standardization aids preparation of purchase specifications; General electric company. G. H. Harnden. il Product Eng 13:50-1 Ja '42

Requirements of Underwriters' laboratories; emergency specifications. C. R. Welborn. Weekly Underw 146:652-3 Mr 21 '42

SPECTACLES

American optical company, Southbridge, Mass. il Am Cer Soc Bul 21:180-6 S 15 '42

Effective program for saving eyes; General electric company. J. E. Mercure. il Steel 111:64-5+ S 21 '42

Eyes have it; personality-styled frames from cellulose nitrate sheet stock. E. J. Young. il Mod Plastics 19:46+ Ja '42

Strain-relieved mounting for eye glasses. diag Machine Design 14:58 Jl '42

See also

Goggles

Lenses

Manufacture

Highlights in making gold filled metal for spectacles; illustrated description. W. J. Wrighton. Metals & Alloys 14:868-75 D '41

SPECTROGRAPH

Amateur spectroscope making. R. M. Watrous. il diag Sci Am 167:46-8 Jl '42

Application of the spectrograph in steel plants. C. C. Nitchie. il Steel 111:82-4+ N 9 '42

β-ray spectra of rubidium^{86}, strontium^{89}, ekatantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42

Grating spectrograph for use in qualitative analysis. W. S. von Arx. il J Chem Educ 19:407-10 S '42

Multiple electrode high voltage arc for spectrographic analysis. W. D. Owsley and R. C. McReynolds. il diag R Sci Instr 13:342-5 Ag '42

New apparatus for rapid photographic spectrophotometry. G. E. Davis and J. W. Woodrow. il R Sci Instr 13:223-8 My '42

SPECTROGRAPH—*Continued*

New large two-lens quartz spectrograph of compact design. S. Jacobsohn. il diags Opt Soc Am J 32:164-7 Mr '42

Nuclear excitations resulting from radioactive decay. E. H. Plesset. bibliog il Phys R 62: 181-6 S 1 '42

Permanent magnet β-ray spectrograph. E. H. Plesset, G. P. Harnwell and F. G. P. Seidl. il diag R Sci Instr 13:351-61 Ag '42

Purification of spectrographic carbons. R. Zietlow, P. Hamm and R. C. Nelson. Science 94:438 N 7 '41

Routine quantitative spectrographic analysis of magnesium alloys. F. A. Fox and J. Nelson. il diags Soc Chem Ind J 60:278-86 N '41

Spectrograph use growing; instrumentation to speed analytical work; Open hearth conference. Iron Age 149:51-2 Ap 23 '42

See also

Diffraction gratings

SPECTROGRAPH, Mass

Mass differences of the fundamental doublets used in the determination of the isotopic weights C^{12} and N^{14}. E. B. Jordan. diags Phys R 60:710-13 N 15 '41

SPECTROGRAPHY

Film and plate processing equipment. J. Schuch. il Opt Soc Am J 32:116-18 F '42

Metallurgical spectrography. G. E. Haddeland. il diags Can Min J 62:819-25 D '41

Spectrographic analysis; a note on the relationship between photographic contrast and wave-length for the Ilford ordinary plate in the ultra-violet. A. C. Coates and E. H. Amstein. Soc Chem Ind J 61:65-6 Ap '42

Spectrographic analysis; photographic aspects of the internal standard method. A. C. Coates and E. H. Amstein. bibliog Soc Chem Ind J 61:21-9 F '42

SPECTROMETERS

Infra-red absorption cell for gases at high and low temperatures. L. G. Smith. il diag R Sci Instr 13:65-7 F '42

New electron spectrometer. G. Sonnedecker. Science 95:sup8 Je 26 '42

New source for infra-red spectrometers. L. G. Smith. diag R Sci Instr 13:63-4 F '42

Recording echelette grating spectrometer for the near infra-red. L. G. Smith. il diags R Sci Instr 13:54-62 F '42

Short history of isotopes and the measurement of their abundances. E. B. Jordan and L. B. Young. bibliog il diags J Ap Phys 13:526-38 S '42

Spectral lines; carbon hydride in interstellar space. M. Mott-Smith. Science 96:sup10 S 4 '42

SPECTROMETERS, Mass

Detection of free radicals by means of a mass spectrometer. G. C. Eltenton. J Chem Phys 10:403 Je '42

Gas analysis with the mass spectrometer. J. A. Hipple. il diags J Ap Phys 13:551-9 (bibliog p553, 559) S '42

Kinetics of gaseous reactions by means of the mass spectrometer; the thermal decomposition of dimethyl ether and acetaldehyde. E. Leifer and H. C. Urey. diags Am Chem Soc J 64:994-1001 Ap '42

Mass spectrometer for gas analysis. il R Sci Instr 13:238-9 My '42

Measurement of relative abundance with the mass spectrometer. E. B. Jordan and N. D. Coggeshall. bibliog diags J Ap Phys 13: 539-50 S '42

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

SPECTROPHOTOMETERS

Automatic recorder of spectral sensitivity of photoelectric surfaces. J. T. Tykociner and L. R. Bloom. il diag Opt Soc Am J 31: 689-92 N '41

Brightness of paper; TAPPI suggested method T 452 sm-41. Paper Tr J 113:39-42 D 25 '41

Colorimetric determination of nickel with ammonia; a spectrophotometric study. J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:289-92 Ap 15 '42

Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42

Determination of beta-carotene and neo-beta-carotene with the visual spectrophotometer. F. P. Zscheile and B. W. Beadle. Ind & Eng Chem Anal ed 14:633-4 Ag 15 '42

Quartz photoelectric spectrophotometer. H. H. Cary and A. O. Beckman. il diags Opt Soc Am J 31:682-9 N '41

Recording color of opaque objects. M. E. Stansby and J. A. Dassow. Ind & Eng Chem Anal ed 14:13-15 Ja 15 '42

Recording spectrophotometer and spectropolarimeter. W. R. Brode and C. H. Jones. il diags Opt Soc Am J 31:743-9 D '41

Reflection-transmission relationships in sheet materials. H. F. Launer. bibliog Opt Soc Am J 32:84-93 F '42

Use of the photronic cell and spectrophotometer for measuring translucency of whiteware. F. C. Arrance. il diags Am Cer Soc J 25:116-22 F 15 '42

SPECTROPHOTOMETRY

Analytical experiments in spectrophotometry. M. G. Mellon. bibliog J Chem Educ 19:415-18 S '42

Curve shape index for identification by means of spectrophotometric curves. W. A. Shurcliff. Opt Soc Am J 32:160-3 Mr '42

Influence of solvent on the ultraviolet absorption maximum of vitamin A. K. Morgareidge. bibliog Ind & Eng Chem Anal ed 14:700-2 S 15 '42

Interpretation of spectral distribution data in practical color applications. R. L. Oetting and C. L. Amick. bibliog diags Illum Eng 36:1369-90; Discussion. 1390-6 D '41

Investigation of the properties and applications of the Geiger-Müller photoelectron counter. O. S. Duffendack and W. E. Morris. bibliog il Opt Soc Am J 32:8-24 Ja '42

Logarithm-of-wave-length scale for use in absorption spectrophotometry. W. A. Shurcliff. bibliog Opt Soc Am J 32:229-33 Ap '42

Long optical paths of large aperture. J. U. White. il Opt Soc Am J 32:285-8 My '42

Molybdenum blue reaction; a spectrophotometric study. J. T. Woods and M. G. Mellon. bibliog(76 references) Ind & Eng Chem Anal ed 13:760-4 N 15 '41

New apparatus for rapid photographic spectrophotometry. G. E. Davis and J. W. Woodrow. il R Sci Instr 13:223-8 My '42

Spectrophotometry of ceramic materials. F. H. Emery. bibliog Am Cer Soc Bul 20:381-4 N '41

SPECTROPOLARIMETERS

Recording spectrophotometer and spectropolarimeter. W. R. Brode and C. H. Jones. il diags Opt Soc Am J 31:743-9 D '41

SPECTROSCOPE

Cutter for spectroscopic electrodes. E. S. Hodge. diag Ind & Eng Chem Anal ed 14: 260 Mr 15 '42

Interference spectroscopy. K. W. Meissner. bibliog il diags Opt Soc Am J 31:405-27; 32: 185-211 Je '41, Ap '42

Telescoptics. A. G. Ingalls. il diags Sci Am 167:94-6 Ag '42

See also

Diffraction gratings

SPECTROSCOPY

Engine knock; observations on the emission and absorption spectra. A. G. Gaydon. Automobile Eng 32:391-2 O '42

Improved source for the Lyman continuum in the vacuum ultraviolet. R. E. Worley. bibliog il diag R Sci Instr 13:67-71 F '42

Interference spectroscopy. K. W. Meissner. bibliog il diags Opt Soc Am J 31:405-27; 32: 185-211 Je '41, Ap '42

June spectroscopy conference at the University of Chicago. R. S. Mulliken. Science 96:340-2 O 9 '42

Magnetic field measurement in beta-ray spectroscopy. J. M. Cork and W. G. Wadey. diag R Sci Instr 13:369 Ag '42

SPECTROSCOPY—*Continued*

X-ray tubes for spectroscopic purposes; abstract. M. Siegbahn. Chem & Met Eng 49: 168 Ag '42

See also

Spectrum analysis

SPECTRUM

β-ray spectra of rubidium^{86}, strontium^{89}, ekatantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42

Beta-ray spectra of scandium. G. P. Smith. bibliog Phys R 61:578-83 My 1 '42

Cometary tails. H. N. Russell. il Sci Am 167: 158-9 O '42

Emissivities and temperature scales of the iron group. H. B. Wahlin and R. Wright. J Ap Phys 13:40-2 Ja '42

Interpretation of spectral distribution data in practical color applications. R. L. Oetting and C. L. Amick. bibliog diags Illum Eng 36:1369-90; Discussion. 1390-6 D '41

Isotope effect in the predissociation phenomena of the CH and CD molecules. L. Gerö and R. F. Schmid. bibliog Phys R 60:911-12 D 15 '41

Molecular spectra of astronomical interest. H. N. Russell. Sci Am 166:18-19 Ja '42

Radiofrequency spectrum of indium; nuclear spin of In^{113}. T. C. Hardy and S. Millman. bibliog Phys R 61:459-65 Ap 1 '42

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

Rydberg corrections for *D*-terms in He I. L. Pincherle. Phys R 61:156-7 F 1 '42

Spectral lines; carbon hydride in interstellar space. M. Mott-Smith. Science 96:sup10 S 4 '42

Systematics in the vibrational spectra of the halogen derivatives of methane. T. Wu. bibliog J Chem Phys 10:116-24 F '42

Term formulae for the configuration d^8. O. Laporte. bibliog Phys R 61:302-4 Mr 1 '42

Theory of complex spectra. G. Racah. Phys R 61:186-97 F 1 '42

Values of *R* and of *e/m*, from the spectra of H, D and He^+. R. T. Birge. Phys R 60: 766-85 D 1 '41

Vibration-rotation energies of planar ZXY_2 molecules; the quantum-mechanical Hamiltonian and the energy values. S. Silver. J Chem Phys 10:565-74 S '42

Zeeman effects in the spectrum of singly ionized nickel. C. H. Lindsley. Opt Soc Am J 32:387-9 Jl '42

See also

Diffraction gratings
Light
Raman effect
Spectrum analysis
Ultraviolet rays
Zeeman effect

Absorption spectra

Absorption of polysubstituted benzene derivatives. A. L. Sklar. bibliog J Chem Phys 10:135-44 F '42

Absorption spectra and the X-ray examination of the isomeric gluconitriles. P. E. Papadakis. bibliog Am Chem Soc J 64:1950-3 Ag '42

Absorption spectra of CdF and SnCl. C. A. Fowler, jr. il Phys R 62:141-3 Ag 1 '42

Absorption spectra of mono-, di-, and trichloroamines and some aliphatic derivatives. W. S. Metcalf. Chem Soc J p148-50 F '42

Absorption spectra of para- and diamagnetic nickel complexes. J. E. Mills and D. P. Mellor. Am Chem Soc J 64:181-2 Ja '42

Absorption spectrum as a quantitative test for mercury vapor in air. K. C. Clark and O. Oldenberg. bibliog J Chem Phys 9:786-8 N '41

Absorption spectrum of biphenylene. E. P. Carr, L. W. Pickett and D. Voris. Am Chem Soc J 63:3231-2 N '41

Absorption spectrum of chlorine fluoride. A. L. Wahrhaftig. bibliog J Chem Phys 10:248 Ap '42

Absorption spectrum of some polymethine dyes. K. F. Herzfeld. J Chem Phys 10: 508-20 Ag '42

Analysis of the near ultraviolet absorption spectrum of monochlorobenzene. H. Sponer and S. H. Wollman. bibliog il J Chem Phys 9:816-25 N '41

Association of ferric ions with chloride, bromide and hydroxyl ions (a spectroscopic study). E. Rabinowitch and W. H. Stockmayer. bibliog Am Chem Soc J 64:335-47 F '42

Configuration of organic coördination compounds of nickel, with especial reference to bis-formylcamphor-ethylenediamine-nickel. H. S. French, M. Z. Magee and E. Sheffield. bibliog Am Chem Soc J 64:1924-8 Ag '42

Effect of molecular environment on the absorption spectra of organic compounds in solution; αβ-unsaturated ketones. L. K. Evans and A. E. Gillam. Chem Soc J p815-20 D '41

Effect of polarized light on the absorption spectrum of the neodymium ion in crystals. E. L. Kinsey and R. W. Krueger. il Phys R 62:82 Jl 1 '42

Experimental study of the ultraviolet absorption spectrum of pyrimidine. F. M. Uber. bibliog J Chem Phys 9:777-9 N '41

Fe $K\beta'$ and $K\beta_5$ lines of FeS_2 and Fe_2O_3. J. C. McDonald. Phys R 60:912 D 15 '41

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Formation of conjugated material during bleaching of vegetable oils. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Am Chem Soc J 64:988-94 Ap '42

Infra-red absorption of silver cyanide. W. D. Stallcup and D. Williams. bibliog J Chem Phys 10:199-200 Ap '42

Infra-red absorption spectra of ethylene and tetra-deutero-ethylene under high resolution. W. S. Gallaway and E. F. Barker. bibliog J Chem Phys 10:88-97 F '42

Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

Infra-red spectra of hydrocarbons; some investigations of the temperature dependence of absorption bands. W. H. Avery and C. F. Ellis. diag J Chem Phys 10:10-18 Ja '42

Interpretation of the methyl iodide absorption bands near λ2000. R. S. Mulliken and E. Teller. bibliog Phys R 61:283-96 Mr 1 '42

Light absorption of geometrical isomerides and the structure of vitamin-*D*. H. P. Koch. bibliog Chem & Ind 61:273-5 Je 20 '42

Near ultraviolet absorption spectrum of monodeuterobenzene. C. A. Beck and H. Sponer. bibliog il J Chem Phys 10:575-81 S '42

Observations on the absorption spectra of terpenoid compounds; five-atom-ring unsaturated ketones. A. E. Gillam and T. F. West. Chem Soc J p486-8 Ag '42

Observations on the absorption spectra of terpenoid compounds; irone. A. E. Gillam and T. F. West. Chem Soc J p95-8 F '42

Observations on the absorption spectra of terpenoid compounds; *iso*thujone. A. E. Gillam and T. F. West. Chem Soc J p811-14 D '41

Observations on the absorption spectra of terpenoid compounds; the thiosemicarbazones of irone, eucarvone, and some related ketones. A. E. Gillam and T. F. West. Chem Soc J p483-6 Ag '42

Preparation and properties of some perihydroxyquinone inner complexes. B. P. Geyer and G. M. Smith. Am Chem Soc J 64:1649-51 Jl '42

Resonance broadening of caesium. C. Gregory. bibliog Phys R 61:465-9 Ap 1 '42

Resonance in substituted biphenyls. D. W. Sherwood and M. Calvin. bibliog Am Chem Soc J 64:1350-3 Je '42

Structure and absorption spectra; further observations on α,β-unsaturated ketones. R. B. Woodward. bibliog Am Chem Soc J 64:76-7 Ja '42

SPECTRUM—Absorption spectra—*Continued*

Structure and absorption spectra; normal conjugated dienes. R. B. Woodward. Am Chem Soc J 64:72-5 Ja '42

Ultraviolet absorption of vitamin A in various solvents. F. P. Zscheile and R. L. Henry. bibliog Ind & Eng Chem Anal ed 14:422-5 My 15 '42

Ultraviolet absorption spectra of linseed oil; determination of bodied-*in-vacuo* and blown linseed oil in mixtures with raw linseed oil. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Ind & Eng Chem Anal ed 13:765-8 N 15 '41

Ultraviolet absorption spectra of organic molecules; the effect of substituent groups upon the absorption of biphenyl. B. Williamson and W. H. Rodebush. bibliog Am Chem Soc J 63:3018-25 N '41

Ultraviolet absorption spectra of the monomethylchrysenes. W. R. Brode and J. W. Patterson. bibliog diag Am Chem Soc J 63:3252-5 D '41

Vibration-rotation spectrum of GeH_4. J. W. Straley, C. H. Tindal and H. H. Nielsen. Phys R 62:161-5 Ag 1 '42

Vibration-rotation spectrum of SiH_4. C. H. Tindal, J. W. Straley and H. H. Nielsen. bibliog Phys R 62:151-60 Ag 1 '42

Vibrational structure of electronic transitions for some complex ions. M. L. Schultz. J Chem Phys 10:194 Mr '42

Band spectra

Further resolution of two parallel bands of ammonia and the interaction between vibration and rotation. H. Sheng, E. F. Barker and D. M. Dennison. Phys R 60:786-94 D 1 '41

Interpretation of the methyl iodide absorption bands near $\lambda 2000$. R. S. Mulliken and E. Teller. bibliog Phys R 61:283-96 Mr 1 '42

Low frequency fundamental band of ethane at 12μ. R. G. Owens and E. F. Barker. J Chem Phys 10:146 F '42

On the $^2\Pi_u \rightarrow {}^2\Pi_g$ bands of CO_2^+. S. Mrozowski. bibliog il Phys R 60:730-8; 62:270-9 N 15 '41, S 1 '42

Potential energy curve of the excited state of KH. G. M. Almy and A. C. Beiler. bibliog Phys R 61:476-81 Ap 1 '42

Doublets

Double minimum problem applied to potassium hydrogen fluoride. G. Glockler and G. E. Evans. bibliog J Chem Phys 10:607-9 O '42

Fine structure

Hyperfine structure of Cs II. R. A. Boyd and R. A. Sawyer. Phys R 61:601-5 My 1 '42

Spectra of Hg II and Hg III. S. Mrozowski. il Phys R 61:605-13 My 1 '42

See also

Fine structure constant

Fluorescence spectra

Fluorescence of solutions and dielectrical properties of solvents. S. Sambursky and G. Wolfsohn. bibliog diag Phys R 62:357-61 O 1 '42

Intensity

Investigation of the properties and applications of the Geiger-Müller photoelectron counter. O. S. Duffendack and W. E. Morris. bibliog il Opt Soc Am J 32:8-24 Ja '42

Photoelectric detection and intensity measurement in Raman spectra. D. H. Rank, R. J. Pfister and P. D. Coleman. il diag Opt Soc Am J 32:390-6 Jl '42

Time effects and arc intensities. H. Hemmendinger. diags Opt Soc Am J 32:149-53 Mr '42

Mass spectra

Ionization and dissociation by electron impact: normal butane, isobutane, and ethane. D. P. Stevenson and J. A. Hipple, jr. bibliog Am Chem Soc J 64:1588-94 Jl '42

Multiplets

New type of vector coupling in complex spectra. G. Racah. bibliog Phys R 61:537 Ap 1 '42

Triplets of helium. D. R. Inglis. bibliog Phys R 61:297-302 Mr 1 '42

See also

Spectrum, X ray—Satellites

Tables, etc.

Deep configuration of cobalt. G. Racah. Phys R 61:537-9 Ap 1 '42

Energy values of the $3d^84p$ electronic configuration of cobalt. M. T. Antunes. Phys R 62:362-8 O 1 '42

First spark spectrum of caesium (Cs II). M. A. Wheatley and R. A. Sawyer. Phys R 61:591-600 My 1 '42

First spark spectrum of neodymium; preliminary classification and Zeeman effect data. W. E. Albertson, G. R. Harrison and J. R. McNally, jr. bibliog Phys R 61:167-74 F 1 '42

First spark spectrum of thorium; classification and Zeeman effect data of Th II. J. R. McNally, jr, G. R. Harrison and H. B. Park. Opt Soc Am J 32:334-47 Je '42

First spectrum of antimony. W. F. Meggers and C. J. Humphreys. bibliog J Research Nat Bur Stand 28:463-78 Ap '42

Identification of molecular spectra. R. W. B. Pearse and A. G. Gaydon. 221p $8 Wiley '41

New classifications in the spectra of Au I and Au II. J. R. Platt and R. A. Sawyer. bibliog Phys R 60:866-76 D 15 '41

Spark spectrum of europium, Eu II. H. N. Russell, W. Albertson and D. N. Davis. bibliog Phys R 60:641-56 N 1 '41

Spectra of Hg II and Hg III. S. Mrozowski. il Phys R 61:605-13 My 1 '42

Vibrational spectra of pyrrole and some of its deuterium derivatives. R. C. Lord, jr. and F. A. Miller. bibliog J Chem Phys 10:328-41 Je '42

Zeeman effect data and preliminary classification of the spark spectrum of praseodymium—Pr II. N. Rosen, G. R. Harrison and J. R. McNally, jr. bibliog il Phys R 60:722-30 N 15 '41

Zeeman effects in the arc spectrum of nickel. C. H. Lindsley. bibliog Opt Soc Am J 32:94-7 F '42

SPECTRUM, Infrared

Application of spectroscopy in the petroleum industry. J. R. Nielsen. bibliog Oil & Gas J 40:34, 36-7, 39 Ja 22 '42

Dispersion of optical glass. M. Herzberger. Opt Soc Am J 32:70-7 F '42

Double minimum problem applied to potassium hydrogen fluoride. G. Glockler and G. E. Evans. bibliog J Chem Phys 10:607-9 O '42

Estimation of aliphatic C—H content of toluene through its infrared absorption. R. C. Gore and J. B. Patberg. bibliog Ind & Eng Chem Anal ed 13:768-71 N 15 '41

Extension of the spectrum. Science 96:sup10+ Jl 3 '42

Heat transfer by infrared radiation in the atmosphere. W. M. Elsasser. (Harvard meteorological studies 6) 107p bibliog(p102-7) pa $1.25 Harvard univ, Blue Hill meteorological observatory, Milton, Mass. '42

Infra-red absorption cell for gases at high and low temperatures. L. G. Smith. il diag R Sci Instr 13:65-7 F '42

Infra-red absorption of silver cyanide. W. D. Stallcup and D. Williams. bibliog J Chem Phys 10:199-200 Ap '42

Infra-red absorption spectra of ethylene and tetra-deutero-ethylene under high resolution. W. S. Gallaway and E. F. Barker. bibliog J Chem Phys 10:88-97 F '42

Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

Infra-red and Raman spectra of polyatomic molecules; diborane. F. Stitt. bibliog J Chem Phys 9:780-5 N '41

SPECTRUM, Infrared—*Continued*

Infra-red spectra of ammonium halides. D. Williams. bibliog Am Chem Soc J 64:857-60 Ap '42

Infra-red spectra of axially symmetric XY_3Z molecules. W. H. Shaffer. bibliog J Chem Phys 10:1-9 Ja '42

Infra-red spectra of hydrocarbons; some investigations of the temperature dependence of absorption bands. W. H. Avery and C. F. Ellis. diags J Chem Phys 10:10-18 Ja '42

Near infra-red spectra of linear Y_2X_2 molecules. W. H. Shaffer and A. H. Nielsen. J Chem Phys 9:847-52 D '41

New source for infra-red spectrometers. L. G. Smith. diag R Sci Instr 13:63-4 F '42

Recording echelette grating spectrometer for the near infra-red. L. G. Smith. il diags R Sci Instr 13:54-62 F '42

Some applications of wave-length turbidimetry in the infrared. C. B. Barnett. bibliog J Phys Chem 46:69-75 Ja '42

Vibration-rotation energies of planar ZXY_2 molecules. S. Silver and E. S. Ebers. bibliog J Chem Phys 10:559-74 S '42

Vibration-rotation spectrum of GeH_4. J. W. Straley, C. H. Tindal and H. H. Nielsen. Phys R 62:161-5 Ag 1 '42

Vibration-rotation spectrum of SiH_4. C. H. Tindal, J. W. Straley and H. H. Nielsen. bibliog Phys R 62:151-60 Ag 1 '42

Vibrational spectra of pyrrole and some of its deuterium derivatives. R. C. Lord, jr. and F. A. Miller. bibliog J Chem Phys 10:328-41 Je '42

SPECTRUM, Ultraviolet

Analysis of toluene for benzene by an ultraviolet absorption of vapor mixtures and the determination of concentration of toluene in air by use of the Rayleigh-Jeans interference refractometer. P. A. Cole and D. W. Armstrong. Opt Soc Am J 31:740-2 D '41

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

Improved source for the Lyman continuum in the vacuum ultraviolet. R. E. Worley. bibliog il diag R Sci Instr 13:67-71 F '42

Influence of solvent on the ultraviolet absorption maximum of vitamin A. K. Morgareidge. bibliog Ind & Eng Chem Anal ed 14:700-2 S 15 '42

Light absorption of geometrical isomerides and the structure of vitamin-*D*. H. P. Koch. bibliog Chem & Ind 61:273-5 Je 20 '42

Nature of electronic levels in ultraviolet spectra of hydrogen and alkyl halides. R. S. Mulliken. bibliog Phys R 61:277-83 Mr 1 '42

Near ultraviolet absorption spectrum of monodeuterobenzene. C. A. Beck and H. Sponer. bibliog il J Chem Phys 10:575-81 S '42

Ultraviolet absorption of vitamin A in various solvents. F. P. Zscheile and R. L. Henry. bibliog Ind & Eng Chem Anal ed 14:422-5 My 15 '42

Ultraviolet absorption spectra of coronene. J. W. Patterson. Am Chem Soc J 64:1485-6 Je '42

Ultraviolet absorption spectra of linseed oil. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Ind & Eng Chem Anal ed 13:765-8 N 15 '41

Ultraviolet absorption spectra of nitrogenous heterocycles; effect of *p*H and irradiation on the spectra of isoguanine and 2-hydroxy-6,8-diaminopurine. M. M. Stimson. bibliog Am Chem Soc J 64:1604-5 Jl '42

Ultraviolet absorption spectra of organic molecules; the effect of substituent groups upon the absorption of biphenyl. B. Williamson and W. H. Rodebush. bibliog Am Chem Soc J 63:3018-25 N '41

Ultraviolet absorption spectra of the monomethylchrysenes. W. R. Brode and J. W. Patterson. bibliog diag Am Chem Soc J 63:3252-5 D '41

Ultraviolet spectrographic examination of the fat fraction of mouse milk and mammary glands. K. B. DeOme, L. A. Strait and E. L. McCawley. bibliog Science 96:301-2 S 25 '42

SPECTRUM, X ray

Auger effect in relative intensities and widths of X-ray lines. J. N. Cooper. bibliog Phys R 61:234-42 Mr 1 '42

K-absorption edges of metal ions in aqueous solution. W. W. Beeman and J. A. Bearden. bibliog Phys R 61:455-8 Ap 1 '42

Precise determination of the fine structure constant from X-ray spin doublet splitting. R. F. Christy and J. M. Keller. Phys R 61:147-52 F 1 '42

Precision determination of *h/e* by means of the short wave-length limit of the continuous X-ray spectrum at 20 kv. W. K. H. Panofsky, A. E. S. Green and J. W. M. DuMond. bibliog diags Phys R 62:214-28 S 1 '42

Theory of the continuous X-ray spectrum. R. Weinstock. Phys R 61:584-90 My 1 '42

Satellites

Absence of the *M*β X-ray satellite intensity anomaly. F. R. Hirsh, jr. bibliog Phys R 62:137-40 Ag 1 '42

Summary of X-ray satellites. F. R. Hirsh, jr. Rs Mod Phys 14:45-54 bibliog(84 titles, p53-4) Ja '42

X-ray *L*-series satellite lines. L. Pincherle. bibliog Phys R 61:225-33 Mr 1 '42

SPECTRUM analysis

Absorption spectrum as a quantitative test for mercury vapor in air. K. C. Clark and O. Oldenberg. bibliog J Chem Phys 9:786-8 N '41

Analysis of toluene for benzene by an ultraviolet absorption of vapor mixtures and the determination of concentration of toluene in air by use of the Rayleigh-Jeans interference refractometer. P. A. Cole and D. W. Armstrong. Opt Soc Am J 31:740-2 D '41

Application of a calculating board to quantitative spectro-analysis. C. King. il Opt Soc Am J 32:112-15 F '42

Application of spectrographic methods to the analysis of segregates. F. G. Parker, J. Convey and J. H. Oldfield. Iron & Steel Inst J 144:183-93, pl 18-20 no 2 '41; Summary. Steel 109:81 D 22 '41; Discussion. Iron & Steel Inst J 144:194-201 no 2 '41; Steel 109:81 D 22 '41

Application of spectroscopy in the petroleum industry. J. R. Nielsen. bibliog Oil & Gas J 40:34, 36-7, 39 Ja 22 '42

Application of the spectrograph in steel plants. C. C. Nitchie. il Steel 111:82-4+ N 9 '42

Blank and background effect on photographed spectral lines. L. W. Strock. bibliog Opt Soc Am J 32:103-11 F '42

Corrections for residual impurity and background in spectrochemical analysis. J. Cholak and R. V. Story. Opt Soc Am J 32:502-5 S '42

Determination of beta-carotene and neo-beta-carotene with the visual spectrophotometer. F. P. Zscheile and B. W. Beadle. Ind & Eng Chem Anal ed 14:633-4 Ag 15 '42

Determination of lead content of commercial ciders and vinegars by spectrographic methods. C. W. Schroeder and H. C. Lythgoe. Ind & Eng Chem Anal ed 13:829-30 N 15 '41

Determination of the concentration of benzene and toluene in air by a spectroscopic method. P. A. Cole. diag Opt Soc Am J 32:304-6 My '42

Direct spectrographic determination of copper and manganese in dyestuffs. G. L. Buc, G. L. Royer and A. R. Norton. Opt Soc Am J 32:454-6 Ag '42

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

SPECTRUM analysis—*Continued*

Electrical ignition of the spectrographic arc. F. G. Brockman and F. P. Hochgesang. diags Ind & Eng Chem Anal ed 14:796 O 15 '42

Estimation of aliphatic C—H content of toluene through its infrared absorption. R. C. Gore and J. B. Patberg. bibliog Ind & Eng Chem Anal ed 13:768-71 N 15 '41

Film and plate processing equipment. J. Schuch. il Opt Soc Am J 32:116-18 F '42

Geochemical data on Saratoga mineral waters, applied in deducing a new theory of their origin. L. W. Strock. bibliog diags Am J Sci 239:857-98 D '41

Grating spectrograph for use in qualitative analysis. W. S. von Arx. il J Chem Educ 19:407-10 S '42

Investigation of the properties and applications of the Geiger-Müller photoelectron counter. O. S. Duffendack and W. E. Morris. bibliog il Opt Soc Am J 32:8-24 Ja '42

Lundegärdh apparatus; its construction and use. J. A. C. McClelland and H. K. Whalley. il diags Soc Chem Ind J 60:288-91 N '41

Multiple electrode high voltage arc for spectrographic analysis. W. D. Owsley and R. C. McReynolds. il diag R Sci Instr 13: 342-5 Ag '42

New technique for quantitative spectrographic analysis by the arc method. M. N. Thruston. Soc Chem Ind J 61:144-5 S '42

Photometry in spectrochemical analysis. W. C. Pierce and N. H. Nachtrieb. bibliog diag Ind & Eng Chem Anal ed 13:774-81 N 15 '41

Qualitative and quantitative analysis of hydrocarbon mixtures by means of their Raman spectra. D. H. Rank, R. W. Scott and M. R. Fenske. bibliog il Ind & Eng Chem Anal ed 14:816-19 O 15 '42

Quantitative spectroscopic analysis of proteins. A. M. Buswell and R. C. Gore. bibliog J Phys Chem 46:575-81 My '42

Rapid spectrographic determination of minute amounts of arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

Routine quantitative spectrographic analysis of magnesium alloys. F. A. Fox and J. Nelson. il diags Soc Chem Ind J 60:278-86 N '41

Some photometric instruments used in X-ray diffraction and spectrographic methods of analysis. J. W. Ballard, H. I. Oshry and H. H. Schrenk. pls U S Bur Mines Rep of Invest 3638:1-13 '42

Spark spectrographic analysis of commercial tin. B. F. Scribner. bibliog 2 pls diags J Research Nat Bur Stand 28:165-90 F '42

Spectrochemical analysis of alkali products. E. A. Boettner. il Ind & Eng Chem Anal ed 13:861-4 D 15 '41

Spectrochemical analysis of metals and alloys. F. Twyman. 355p $8.50 Chemical pub. co. '41

Spectrochemical determination of trace metals in biological material. J. Cholak and R. V. Story. bibliog il Opt Soc Am J 31:730-8 D '41

Spectrochemical method for the determination of boron in synthetic mixtures of soil materials. R. Q. Parks. bibliog Opt Soc Am J 32:233-7 Ap '42

Spectrographic analysis; a note on the relationship between photographic contrast and wave-length for the Ilford ordinary plate in the ultra-violet. A. C. Coates and E. H. Amstein. Soc Chem Ind J 61:65-6 Ap '42

Spectrographic analysis of briquetted tablets. H. W. Dietert. il Opt Soc Am J 31:693-6 N '41

Spectrographic analysis; photographic aspects of the internal standard method. A. C. Coates and E. H. Amstein. bibliog Soc Chem Ind J 61:21-9 F '42

Spectrographic studies of coprecipitation; fourth-period elements with barium sulfate, and copper and zinc with lead sulfate. L. Waldbauer, F. W. Rolf and H. A. Frediani. bibliog Ind & Eng Chem Anal ed 13:888-9 D 15 '41

Spectrophotometric determination of dysprosium, holmium, erbium, thulium, and ytterbium. C. J. Rodden. J Research Nat Bur Stand 28:265-77 Mr '42

Spectrophotometric estimation of pentachlorophenol in tissues and water. W. Deichmann and L. J. Schafer. diag Ind & Eng Chem Anal ed 14:310-12 Ap 15 '42

Spectroscopic distribution of minor elements in igneous rocks from Jamestown, Colorado. J. M. Bray. map Geol Soc Bul 53:765-814 bibliog(p810-14) Ja '42

Studies on the carotenoids; spectrophotometric determination of the carotenoids of yellow corn grain. J. W. White, jr., A. M. Brunson and F. P. Zscheile. bibliog Ind & Eng Chem Anal ed 14:798-801 O 15 '42

Time effects and arc intensities. H. Hemmendinger. diags Opt Soc Am J 32:149-53 Mr '42

Ultraviolet absorption spectra of linseed oil; determination of bodied-*in-vacuo* and blown linseed oil in mixtures with raw linseed oil. J. H. Mitchell, jr. and H. R. Kraybill. bibliog Ind & Eng Chem Anal ed 13:765-8 N 15 '41

Use of the spectrograph as an aid in improving open hearth practice. J. A. Sample. Blast F & Steel Pl 30:875-6 Ag '42

Voltage regulator for a densitometer lamp. S. L. Parsons. bibliog diags Opt Soc Am J 32:153-5 Mr '42

Bibliography

Index to the literature on spectrochemical analysis, 1920-1939. W. F. Meggers and B. F. Scribner, comps. 2d ed 94p pa $1 Am. soc. for testing materials, Philadelphia '41

SPECULATION

Again the leeches; speculation in agricultural land. Economist 141:591 N 15 '41

Great game of futures; an exposé of a gigantic racket. E. D. MacDougall. 96p pa 50c Leader pub. co, 1262 New Hampshire av, Washington, D.C. '41

How to make profits trading in commodities; a study of the commodity market, with charts and rules for successful trading and investing. W. D. Gann and J. L. Gann. 391p $5 W. D. Gann & son, 82 Wall st, New York '41

Making money in stock trading. Barron's 22: 7-8 O 26; 9 N 2; 9 N 9 '42

Real boss of Wall Street. T. F. Willmore. 101p pa $1 T. F. Willmore co., Penobscot bldg, Detroit '41

Says controls stop excessive speculation. J. M. Mehl. Comm & Fin Chr 155:343 Ja 22 '42

Sees greater interest in securities. W. Dodge. Comm & Fin Chr 156:1626 N 5 '42

Speculation and enterprise. Business Week p71 N 22 '41

Strategy for profits; maintenance of speculative attitude and use of well-known securities urged. G. M. Loeb. Barron's 22:18 Mr 2 '42

See also

Hedging
Investments
Securities
Stock exchange

SPECULUM metal

White bronze plating. Product Eng 12:676 D '41

SPEECH

Auditory sensitivity under conditions of anoxia; a study of speech intelligibility. C. P. Seitz and G. M. Smith. bibliog J Aeronautical Sci 9:478-80 O '42

Defective in speech. M. F. Berry and J. Eisenson. 426p $3 Crofts '42

Method for measuring the percentage of capacity for hearing speech. E. P. Fowler. Acoustical Soc Am J 13:373-82 Ap '42

Note-frequency spectrometer and note-frequency spectrograph with inertialess commutator; abstract. P. Vetterlein. Wireless Eng 19:272-3 Je '42

Oral interpretation of literature in American colleges and universities; a historical study of teaching methods. M. M. Robb. 242p bibliog(p223-34) $2.75 Wilson, H.W. '41

SPEECH—*Continued*

Speech correction on the contract plan. R. B. Manser. rev ed 381p bibliog(p373-4) $3 Prentice-Hall '42

Speech: forms and principles. A. T. Weaver. 437p $2.75 Longmans '42

Speech training for the deaf child. S. M. Martin. 114p $1 Norton '42

Speech training program for field men; General aniline & film corporation. H. J. Bailey. Bankers M 145:224-6 S '42

Training the speaking voice. V. A. Anderson. 387p bibliog(p373-6) $2.50 Oxford '42

Voice science. L. S. Judson and A. T. Weaver. 377p bibliog(p349-68) $3.75 Crofts '42

X-ray study of pharyngeal articulation. F. J. Carmody. il Univ of Calif Pub in Modern Philology v 21, no 5:377-84 '41

See also

Voice

Terminology

Terminology and definitions of speech defects. M. Ogilvie. 300p bibliog(p247-90) $3.50 Teachers college '42

SPEECHES

World's great speeches. L. Copeland, ed. 738p $1.98 Garden City pub. co., Garden City, N.Y. '42

See also

Public speaking

SPEED

Critical speeds; how to calculate equivalent speeds and inertias. C. R. Freberg and E. N. Kemler. diags Product Eng 13:439-42 Ag '42

Speed control for sector disks or similar equipment. R. H. Lee and L. R. Crisp. diags R Sci Instr 12:607-8 D '41

See also

Airplanes—Speed
Automobiles—Speed
Railroads—Train speed
Velocity

SPEED indicators

Combination traffic counter and speed recorder; abstract. H. J. Dana. Roads & Bridges 80:84 Ap '42

Means of recording speed automatically; Photo-Velaxometer. A. K. Branham. Roads & Bridges 80:80 Ap '42

New speed indicator for hydro generators. E. P. Bryant. il diag Elec W 118:948 S 19 '42

SPEED variation

Adjustable speed drives; abstract. G. A. Caldwell. diags Iron Age 149:58-9 Ap 16 '42

Adjustable-varying-speed direct-connected drive for large boiler feed pumps. A. E. Beardmore. il Gen Elec R 45:159-60 Mr '42

Adjusting speed to suit load insures efficient operation. A. F. Hartung. il Power 86:789-91 N '42

A-c drive simplifies speed control; metal cutting band saws. L. W. Herchenroeder. diags Machine Design 14:162+ Ap '42

Axelson 32-in. lathe has two-speed tailstock. il diags Product Eng 13:432-5 Ag '42

Boiler-feed pump; protect against speed variation. I. J. Karassik. Power 86:275-6 Ap '42

Clock-controlled governor for close speed regulation. J. C. Prescott, M. N. Karaosman. diags Inst E E J 89 pt 2:210-16 Je '42

Design and application of speed reducers. W. F. Plume. il Steel 111:98, 100+ N 2 '42

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

Electric control systems on overhead travelling cranes. Mech Handling 29:161-2 S '42

Electrical drives for wide speed ranges; addition of rotating regulator called Rototrol. G. A. Caldwell and W. H. Formhals. bibliog il diag Elec Eng 61:Trans 54-6 F '42

Electronic motor control; General Electric Thy-mo-trol. il Blast F & Steel Pl 29:1240 D '41

Faster, slower with multispeed motors. R. B. Temple. il diags Factory Management 100:97-9 F '42

Fit the reducer to the drive for trouble-free low-cost service. W. F. Plume. il Power 86:315-17 My '42

Foster turret lathe with automatic speed changes. il Engineering 154:147-8 Ag 21 '42

Friction-drive mechanism designed for stepless speed variation. diags Mach 49:163-4 O '42

Gearmotor class numbers and service factors for gear speed reducers (except worm gears); data sheet. Power 86:353 Ap '42

General Electric developments of 1941 in the paper industry; applications of amplidyne generators. Paper Tr J 114:15-16 Ja 8 '42

How to maintain constant linear speed and tension in material being unwound from one reel onto another. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110:78, 80 Mr 30 '42

How to obtain an a-c drive that will deliver constant horsepower at different speeds; constant-tension drive for dyeing machine. A. P. Mansfield. il diag Gen Elec R 44:595-6 N '41; Same. Aviation 41:88-9 Ap '42

How to obtain compact and powerful adjustable-speed drive; water-cooled motor operating on high-frequencies; testing model propellers. C. C. Clymer. il Gen Elec R 44:599-600 N '41; Same cond. Aero Digest 39:197+ D '41

How to provide a drive having a rapid acceleration and retardation and quick return motion; amplidyne controlled motor; sawmill log carriage. H. B. LaRoque. il diags Gen Elec R 44:619-20 N '41

How to pump power from varying-speed source into constant-frequency system; loading airplane engines while being tested. G. E. Cassidy. diag Gen Elec R 44:590-2 N '41; Abstract. Steel 111:62+ D 28 '42

Hydraulic actuation; application to lathe operation; Hydratol lathe. il Automobile Eng 32:186 My '42

Hydraulic couplings for auxiliaries. G. V. Edmonson. diags Power Pl Eng 46:74-5 Ja '42

Know your planetary gears. W. F. Plume. il diags Power 86:161-4+ Mr '42

Large adjustable-speed wind-tunnel drive. C. C. Clymer. il diag Elec Eng 61:Trans 156-8 Mr '42

Multi-field pilot generator gives all-automatic motor regulation. C. W. Drake. il diags Product Eng 13:521-3 S '42

Precision speed control for world's largest induction motor. R. R. Longwell and M. E. Reagan. il diags Elec Eng 61:Trans 634-8 S '42

Production testing of aircraft engines; power equipment. C. A. Chayne. il plan Power Pl Eng 46:102-4 My '42

Rectifier in field circuit improves motor control. L. E. Miller. il diags Power 86:733 O '42

Series circuit simplifies adjustable speed drive. S. H. Hanville. il diags Power Pl Eng 46:76-8 Ja '42

Speed change: differential unit designed by Esterline-Angus co. diag Machine Design 14:61 S '42

Speed regulating device outstanding on new paper-making machine; electronic amplifier in combination with an amplidyne control. il Paper Tr J 113:114+ N 27 '41

Study of the modified Kramer or asynchronous-synchronous cascade variable-speed drive. M. M. Liwschitz and L. A. Kilgore. diags Elec Eng 61:Trans 255-60 My '42

Supplementary control of prime-mover speed governors. S. B. Crary and J. B. McClure. bibliog Elec Eng 61:Trans 209-14 Ap '42

Theory of the brush-shifting a-c motor; speed control with power-factor correction. A. G. Conrad, F. Zweig and J. G. Clarke. diags Elec Eng 61:Trans 507-13 Jl '42

Timing in production regulation; speed synchronization. il Rayon 23:111-14 F '42

Torque converters applied to drilling and servicing rigs. T. P. Sanders. il Oil & Gas J 41:25-6+ Jl 2 '42

SPEED variation—*Continued*

Two-speed supercharger drives. F. M. Kincaid, jr. il diags S A E J 50:80-96 Mr '42; Excerpts. Automotive Ind 86:35 Ja 15 '42

V-belts keep them rolling. il diags Rayon 22:691-3 N '41

Variable-speed drive for United States army Air corps wind tunnel at Wright field, Dayton, Ohio. A. D. Dickey, C. M. Laffoon and L. A. Kilgore. il diag Elec Eng 61: Trans 126-30 Mr '42; Same cond. Aero Digest 40:212+ F '42; Excerpts. Power Pl Eng 46:87-9 Jl '42

Variable speed drive is positive; patent assigned to the Morse chain co. diags Machine Design 14:144+ Je '42

Variable-speed units drive screw machine. il diags Product Eng 13:71-3 F '42

Which drive serves best for speed control? G. A. Caldwell. diags Machine Design 14:71-6 My '42; Abstract. Iron Age 149:58-9 Ap 16 '42

Wide speed range drive for Monarch toolroom lathe. il Mach 48:165 Mr '42

See also

Electric motors—Control

Governors (machinery)

SPEEDOMETERS

Speedometers; descriptive survey of the various current types. D. B. Browne. diags Automobile Eng 32:247-9 Je '42

SPELLING

See also

Possessive case

SPENDING. See Consumption (economics); Government expenditures

SPENDING tax

Direct tax on use of surplus purchasing power. J. Weinstein. Trusts & Estates 75:346-7 O '42

Senate committee rejects Treasury proposal for spending tax; favors 5% victory tax. Comm & Fin Chr 156:890 S 10 '42

Spending taxes; abstract. T. De Scitovski. Trusts & Estates 75:220 S '42

Spendings tax. Fortune 26:38+ N '42

Total expenditure rations and progressive taxation. W. A. Wallis. Trusts & Estates 75:352 O '42

Treasury backflip; adds up to forced savings. Business Week p15-16 S 26 '42

SPERMATOZOA

Longevity of fowl spermatozoa in frozen condition. C. S. Shaffner. Science 96:337 O 9 '42

SPERRY corporation

Consent degree ends U.S. anti-trust case against Sperry firms. Comm & Fin Chr 156:871 S 7 '42

Growth stocks and the investor. E. N. Chapman. Barron's 22:8 F 9 '42

SPEYER, James, 1861-1941

Sketch. Comm & Fin Chr 154:1040 N 13 '41

SPHERE gap. See Spark gap

SPHERICAL projection

Cartographic solution of great circle problems. A. J. Dilloway. diags Roy Aeronautical Soc J 46:4-31 Ja '42

SPHEROIDS

Electrical oscillations of a perfectly conducting prolate spheroid. R. M. Ryder. bibliog J Ap Phys 13:327-43 My '42

SPHINGOSINE

New hydrolysis product derived from bovine cerebral and spinal tissue. C. Niemann. Am Chem Soc J 63:3535-6 D '41

SPICER manufacturing corporation

Common stocks in strategic position. Mag of Wall St 69:503 F 7 '42

Thumbnail stock appraisal. Mag of Wall St 69:207 N 29 '41

SPICES

Drug and other special plant possibilities of the Americas. D. M. Crooks. Oil Paint & Drug Rep 142:7+ S 7 '42

Drug makers spice quotas system formed. Oil Paint & Drug Rep 141:7 Je 15 '42

Guatemala's spice production in 1941 and estimated production for 1942. For Comm W 7:20 Je 13 '42

Peru's spice production. For Comm W 7:28 Je 20 '42

Spice contamination and its control; abstract. J. Yesair and O. B. Williams. Food Ind 14:105 Ag '42

Spice of life; with tables, giving sources of spices, U.S. imports, uses. C. R. Bryan. For Comm W 6:8-9 F 28 '42

Spices distribution restricted by WPB. Oil Paint & Drug Rep 141:5+ My 11 '42

Spices hold out. Business Week p35-6+ Jl 25 '42

See also

Clove

also American spice trade association

Prices

OPA ceils forty-five spices and seeds. Oil Paint & Drug Rep 142:5+ O 5 '42

Statistics

Spices. Published in weekly numbers of Oil, paint and drug reporter

SPIDERS, Fossil

Study of amber spiders. A. Petrunkevitch. 464p bibliog(p451-4) pa $6 Connecticut academy of arts and sciences, New Haven '42

SPIEGELEISEN

Monthly price averages for twelve years, 1929-1941; tabulation. Steel 110:359 Ja 5 '42

SPIES

FBI radio traps spy-ring. S. C. Milbourne. il Radio N 26:8-9+ D '41

Optics in sabotage and espionage. W. G. Driscoll. Opt Soc Am J 32:134-8 Mr '42

Six Nazi saboteurs executed. Comm & Fin Chr 156:544 Ag 13 '42

Total espionage. C. Riess. 318p $2.75 Putnam '41

SPILLWAYS

Bonneville spillway gates; abstract. T. M. Ober. Power 85:977 Mid-D '41

Concrete pumped downhill for a dam; control works of the earth and rock Indian Rock dam. C. M. Glines. il diag plan Eng N 128:863-5 My 21 '42

Diagram for hydraulic jump. R. L. Irwin. Civil Eng 12:335 Je '42

Entrainment of air in flowing water; open channel flow at high velocities. L. S. Hall. il Am Soc C E Proc 68:1100-40 S '42

Kingsley dam. il diag Engineer 174:35-8 Jl 10 '42

Marshall Ford spillway bridge preassembled and pulled into position. J. E. Walters. il Eng N 127:840-1 D 11 '41

Model tests on structures for hydroelectric developments. L. M. Davis. il diags plans Am Soc C E Proc 68:543-63; Discussion. 575-9 Ap '42

Spillway coefficients at an eastern dam; model-prototype conformity. G. H. Hickox. diag plan Am Soc C E Proc 68:1334-42 O '42

See also

Dams

SPINACH

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:10-14 '41

Analysis

Some assays of privitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

Standards

Brief summaries of AMS standards, canned spinach (and other greens). Food Ind 14:56 F '42

SPINAL cord

Acute brain and spinal cord injuries. S. Brock. bibliog Ind Med 11:378-81 Ag '42

Quantitative interneuronal relationships in the human spinal cord. J. Minckler. Science 96:117-18 Jl 31 '42

SPINAL cord—*Continued*

Diseases

Surgical diseases of the spinal cord, membranes, and nerve roots; symptoms, diagnosis, and treatment. C. A. Elsberg. 598p bibliog(p559-83) $14 Harper '41

SPINASTEROL

Sterols of alfalfa seed oil; isolation of β-spinasterol and δ-spinasterol. L. C. King and C. D. Ball. bibliog Am Chem Soc J 64:2488-92 O '42

SPINDLES (machine tools)

Influence of temperature on lathes; compensation for misalignments essential when parts must be finished to close tolerances. G. Schlesinger. diags Am Mach 86:379-81 Ap 30 '42

Seamless steel tubing in light machine tools. R. G. Schaaf, jr. il diags Iron Age 150:46-50 S 24 '42

SPINEL

Zirconia-magnesia spinel system. R. F. Mather. bibliog il Am Cer Soc J 25:93-6 F 1 '42

SPINNING

Effect of variation in emulsification technique of batching oils upon the spinning and measurable characteristics of jute. H. L. Parsons. Textile Inst J 33:P77-84 Je '42

System of spinning long-staple fibers. il Textile World 92:98 My '42

Technique for spinning samples of yarn from small quantities of jute fibre. C. R. Nodder and A. S. Gillies. il Textile Inst J 33:T1-16 Ja '42

See also

Cotton spinning
Rayon spinning
Woolen and worsted spinning
Yarn

SPINNING machinery

New long staple fiber spinning on cotton machinery. il Rayon 23:432 Jl '42

Spinning-room practice. W. Stockton. Textile World 91:116 O; 143 N; 101-2 D '41; 92:103-4 Mr; 112 My '42

Testing

Intelligent use of Strobotac. R. W. Mitchem. il Textile World 92:80-3 O '42

SPINULOSIN

Anti-bacterial substances from moulds; spinulosin and fumigation, metabolic products of penicillium spinulosum Thom and aspergillus fumigatus Fresenius. A. E. Oxford and H. Raistrick. Chem & Ind 61:128-9 Mr 14 '42

Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42

SPIRALOK. See Cartridges, Dynamite

SPIROCYCLOPENTANETETRALIN

Studies in dehydrogenation; spirocyclopentane-1,1′-tetralin. M. Levitz and M. T. Bogert. Am Chem Soc J 64:1719-20 Jl '42

SPIROHYDANTOIN

Alkaline hydrolysis of fluorenone-spirohydantoin. W. H. McCown and H. R. Henze. bibliog Am Chem Soc J 64:689-90 Mr '42

SPITSBERGEN

See also

Geology—Spitsbergen

SPLINES. See Keys and keyways (machinery)

SPLINTS (surgery)

Stretcher-splint developed to facilitate first aid. W. W. Dartnell. il diag Coal Age 47:65-6 Ja '42

SPODUMENE

Influence of fluxes of spodumene and feldspar mixtures on properties of chinaware bodies; semi-vitreous bodies and vitreous hotel chinaware bodies. H. G. Schurecht, J. K. Shapiro and Z. Zabawsky. diags Am Cer Soc J 25:321-6 Jl 1 '42

Minor constituents in spodumene. A. Gabriel, M. Slavin and H. F. Carl. bibliog Econ Geol 37:116-25 Mr '42

SPOFFORD, Charles Milton, 1871-

Sketch. por Civil Eng 11:735-6 D '41

SPOILAGE

See also

Salvage (waste, etc.)

SPONGE chromium. See Chromium

SPONGE iron. See Iron, Sponge

SPONGES

Loofa sponges controlled. For Comm W 7:28-9 My 2 '42

Netted sponge. il Business Week p20 F 28 '42

Report on sponge spicules. M. E. Jewell. Am J Sci 240:332-4 My '42

Sea sponges as filter medium; abstract. A. F. B. Haylett. Water & Sewage 80:54 O '42

SPONTANEOUS combustion

For the small plant; coal storage and handling. C. F. Hardy. il Power Pl Eng 46:62-4 Jl '42

Guard against spontaneous combustion when storing large quantities of coal. W. D. Langtry. il Brick & Clay Rec 100:21-2 My '42

How to make emergency coal storage safe. diags Power 86:640-1 S '42

Pointers on the storage of coal. J. F. Barkley. diag U S Bur Mines Information Circ 7211:1-7 '42; Same. Gas Age 90:12-14 Jl 2 '42

Skirting coal piles lessens spontaneous combustion; abstract. C. Scholz. Coal Age 47:63 Jl '42

Storage of coal. R. A. A. Taylor. Mech Handling 29:96-7 My '42

Storing coal safely. M. K. Drewry. il Power Pl Eng 46:65-8 Jl '42

SPORES

Vertical orientation of powdery mildew conidia during fall. C. E. Yarwood and W. E. Hazen. Science 96:316-17 O 2 '42

SPORTING goods industry

Directories

Sporting goods trade directory. C. C. Spink, 2d, comp. 36th ed 672p pa 50c Charles C. Spink & son, St Louis, Mo. '42

SPORTS

See also

Bowling alleys
Baseball
Football

SPORTS buildings. See Recreation buildings

SPOT analysis. See Microanalysis

SPOT radio. See Radio advertising—Spot radio

SPOT tests. See Microanalysis

SPOT welding. See Electric welding

SPRAY drying. See Drying

SPRAY painting. See Paint spraying

SPRAY ponds. See Cooling ponds

SPRAY printing. See Textile printing—Spray printing

SPRAY residue on fruits and vegetables

Chronic toxicity of derris. A. M. Ambrose, F. Deeds and J. B. McNaught. bibliog Ind & Eng Chem 34:684-9 Je '42

Analysis

Direct determination of sulfur. G. L. Mack and J. M. Hamilton. bibliog Ind & Eng Chem Anal ed 14:604-6 Jl 15 '42

SPRAYING and dusting

Carriers of rotenone dusts. H. F. Wilson and R. L. Janes. Soap & San Chem 18:103+ Ap '42

Electric spraying for orchards. E. Hardy. Electrician 128:615 Je 19 '42

SPRAYING apparatus

Spray booth gives quick quench. R. B. Jackman. il Am Mach 86:1111-13 O 1 '42

See also

Aerosol bomb

SPRAYING materials

See also
Insecticides

SPREADING

Contact angles at liquid-liquid-air interfaces. W. Fox. bibliog il J Chem Phys 10:623-8 O '42

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Energy relations of the surfaces of solids; spreading pressure as related to the work of adhesion between a solid and a liquid. W. D. Harkins and H. K. Livingston. diags J Chem Phys 10:342-56 Je '42

Relationships between the spreading pressure, adsorption, and wetting. H. H. Rowley and W. B. Innes. bibliog diag J Phys Chem 46:694-705 Je '42

Spreading of oils on water; spreading pressures and the Gibbs adsorption relation. W. A. Zisman. bibliog J Chem Phys 9:789-93 N '41

See also
Films

SPRING

Signs of spring. Science 95:sup10 F 27 '42

SPRINGFIELD, Massachusetts

Water supply

Subsurface survey provides water supply data. Eng N 128:413 Mr 12 '42

SPRINGFIELD, Missouri

Streets

Smoothing corduroyed roads. L. A. Weeks. il Pub Works 73:17-18 O '42

SPRINGS

See also
Mineral waters

SPRINGS (furniture)

Wooden springs for chairs, divans, studio couches, box springs, and innerspring mattresses. il Business Week p35-6 O 31 '42

SPRINGS (mechanism)

Aeronautical applications of instrument springs; abstract. J. W. Rockefeller, jr. Metals & Alloys 15:676 Ap '42

Applying mobility method to linear vibrations. R. C. Binder. diags Machine Design 14:57-60+ Mr '42

Characteristics of the volute spring. B. Sterne. il diags S A E J 50:221-40 Je '42

Combining maximum spring deflection with minimum space. A. M. Wahl. il Machine Design 14:57-9 Ja '42

Conical springs. A. Bodenschatz. Product Eng 13:109-10 F '42

Data on Swedish, U.S. spring steels. H. Carlson. Product Eng 13:602 O '42

Designing mountings for rubber under shear; with data sheets. E. Latshaw. diags Machine Design 14:173-6 Ap; 85-6 My '42

Eliminating surging in helical springs. A. M. Wahl. il diags Machine Design 14:47-51+ Ap '42

Packing retainer spring. il Ry Age 113:8 Jl 4 '42; Same. Ry Mech Eng 116:313 Jl '42

Rubber in shear; ellipse of component strains. E. Latshaw. diags India Rubber W 105:363-5 Ja '42

Rubber suspension; the application of conical torsion disc units to cycles and motor cycles. C. Macbeth. il diags Automobile Eng 32:151-5, 195-8 Ap-My '42

Simplifying design of rubber mountings. C. W. Kosten and C. Zwikker. bibliog diags Machine Design 14:66-71 Ja '42

Spring steels. H. Carlson. il Product Eng 13:2-5, 89-92, 139-41, 405-6 Ja-Mr, Jl '42

Wave action in gun run-up springs. H. G. W. Taylor. diags Inst Mech Eng J & Proc 145:Proc 150-9 S '41; Discussion. 146:Proc 183-7 F '42

When springs are statically loaded. A. M. Wahl. il charts Machine Design 14:67-71 Jl '42

See also
Automobiles—
Springs and suspension

Advertising

Springs given new significance in Hunter campaign. K. D. Montgomery. il Ind Marketing 27:26-7 F '42

Manufacture

Alloys for springs; development of beryllium-bronze. Chem Age (Lond) 46:7-8 Ja 3 '42

Materials for springs for electric equipment. P. M. G. Thorpe. il Elec R (Lond) 130:465-7 Ap 10 '42

Spring making facilitated by mechanized handling. C. W. Bartlett. il diags plan Steel 110:85, 88+ F 16; 66, 68+ F 23 '42

Springs of beryllium copper. R. W. Carson. il Aero Digest 41:150, 153+ Jl '42; Excerpts. Metals & Alloys 16:344+ Ag '42

Tables, calculations, etc.

Helical tension spring tables; reference book sheet. P. Klamp. diags Product Eng 12:631-2, 689-92; 13:59-60 N '41-Ja '42; Correction. 13:49 Ja '42

Loads and deflections of phosphor-bronze round-wire helical springs; data sheets. J. I. Hommel, comp. Mach 49:155 O; 213 N '42

Loads and deflections of stainless-steel round-wire helical springs; data sheets. J. I. Hommel. Mach 48:197 Ap; 135 My; 133 Je '42

Procedure blanks and charts simplify spring design jobs. C. Thumim. tables Product Eng 13:662-4 N '42

Testing

Testing small springs. J. F. Cavanagh. il diags Product Eng 13:520 S '42

Valve springs; investigations into the problems of surge and vibration. W. Marti. diags Automobile Eng 32:95-100 Mr '42

SPRINKLING systems

Effectiveness of automatic sprinklers. A. D. Bosch. Ins Field (Fire ed) 71:10-11 Ap 9 '42

Fear trend to cut out sprinkler protection. Nat Underw 46:3 Ag 27 '42

Fire protection methods for process plants. il Chem & Met Eng 49:101-2 Ag '42

U.S. policy as to sprinklers vexing. Nat Underw 46:1 O 1 '42

SPROCKETS

Oxyacetylene flame hardening. J. G. Magrath. il diags Am Mach 86:107-9 F 19 '42

Sprocket hardening with induction heat. il Elec W 118:1490 O 31 '42

SPRUCE

Establishment of reproduction of usable species. W. M. Robertson. Pulp & Pa of Can 43:267-9+ F '42

Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42

Monoethanolamine extraction of wood for the determination of cellulose. P. Bloom, E. C. Jahn and L. E. Wise. bibliog Paper Tr J 115:33-40 S 3 '42

Plagiotropic habit of growth in Norway spruce. C. G. Deuber. Science 95:301 Mr 20 '42

Rate of deterioration in spruce killed by the European spruce sawfly; aftermath of sawfly attack on Gaspé peninsula. C. G. Riley and A. J. Skolko. Pulp & Pa of Can 43:521-4 Je '42

Sodium hydrosulphide as a pulping agent. M. A. Buchanan and C. M. Koon. Paper Tr J 115:116 O 1 '42

SPRUCE bark beetle

New bugs in Gaspe forest; dendroctonus piceaperda Hopk; a detrimental or beneficial insect? A. R. Gobeil. bibliog Pulp & Pa of Can 42:730-4+ N '41

SPRUCE budworms
Bud worm in Manitoba. Pulp & Pa of Can 43:829+ O '42

SPRUCE sawfly
Rate of deterioration in spruce killed by the European spruce sawfly; aftermath of sawfly attack on Gaspé peninsula. C. G. Riley and A. J. Skolko. Pulp & Pa of Can 43:521-4 Je '42
Spruce sawfly outbreak in 1941. R. E. Balch. map Pulp & Pa of Can 43:385-8 Ap '42

SQUALENE
Course of autoxidation reactions in polyisoprenes and allied compounds; hydroperoxidic structure and chain scission in low-molecular polyisoprenes. E. H. Farmer and D. A. Sutton. Chem Soc J p139-48 F '42
Rubber, polyisoprenes, and allied compounds; the synthesis of low-molecular polyisoprenes of the rubber and the squalene type. E. H. Farmer and D. A. Sutton. Chem Soc J p116-21 F '42

SQUARE (instrument)
Steel square, showing its application to roofing, timber framing and staircasing. N. D. Green. 88p $2.50 Chemical pub. co. '42

SQUARE D company
Another look at your company. Mag of Wall St 70:233 Je 13 '42
Earnings, 1938-1941. Comm & Fin Chr 155:1221 Mr 23 '42
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 F 9 '42
1941 results; common stock increased. Comm & Fin Chr 155:831 F 24 '42

SQUARE root
Square and cube root with a calculator. T. W. Simpson. Eng N 129:81 Jl 16 '42
Square root by calculator. S. L. Goldberg. Eng N 129:41-2 Jl 2 '42

SQUIBB, E. R., and sons
Investment audit. H. J. Nelson. Barron's 22:13 F 23 '42

STABILIZATION in industry
See also
Building cycles
Business cycles
Economic planning
Economic policy
Industry
Unemployment—Relief measures

STABILIZERS. See Airplane stability and stabilizers; Gyroscope; Ships—Stability

STABLES. See Barns and stables

STADIUMS
How concrete was distributed on big stadium project. Concrete 50:6 Ag '42

STAFFORD, Orin F. 1873-1941
Sketch. F. L. Shinn. Science 95:62-3 Ja 16 '42

STAGE lighting
Syllabus of stage lighting. S. R. McCandless. 5th ed 154p bibliog(p150-1) pa $6 Stanley R. McCandless, c/o Yale theatre, New Haven '41

STAGE setting and scenery. See Moving pictures—Setting and scenery; Theaters—Stage setting and scenery

STAGGERED hours
Basic principles for staggered hours studies; abstracts. H. S. Simpson. Mass Transportation 38:296-8 O '42; Transit J 86:382-3 O '42
Burdened transit. Business Week p87-9 My 23 '42
Chilean Congress has established the single-shift working day; plan for staggered hours announced. For Comm W 8:15-16 Jl 4 '42
Hour-staggering halves Los Angeles peaks. L. S. Flint. il Transit J 86:209-11 Je '42
How Los Angeles tackled the war-worker transit problem. L. S. Flint. il Bus Transportation 21:302-5 Jl '42
In the vanguard for staggered hours; Dallas railway & terminal company, in cooperation with civic bodies, is working out plan. Transit J 86:127-9 Ap '42
Increasing the efficiency of bus use; staggering hours of employment and schools; experience in Nation's capitol. D. J. Locke. Bus Transportation 21:134-7 Mr '42
New Jersey gets program of staggered hours. Comm & Fin Chr 156:1433 O 22 '42
No royal road to staggered hours; how Providence, R. I., is solving problem. E. F. Theisinger. il Bus Transportation 21:398-401 S '42
One city's answer to the tire shortage, the Pontiac plan. il Am Business 12:14-16 Jl '42
Plan for staggering work hours favored. Comm & Fin Chr 155:1157 Mr 19 '42
Plan for staggering work hours proposed in New York city. Comm & Fin Chr 155:1059 Mr 12 '42
Pontiac points the way; wartime traffic problems. R. G. Silbar. il Transit J 86:130-1 Ap '42
Providence proves that staggering pays. Factory Management 100:85-6 S '42
Staggered hours for defense; abstract. W. A. Van Duzer. Roads & Bridges 80:106 Mr '42
Staggered hours help in London. Transit J 86:162 My '42
Staggered hours, no longer a maybe but a must! Bus Transportation 21:202-3 My '42
Staggering to work. J. H. Collins. Pub Util 29:795-802 Je 18 '42

STAINED glass
New process for glass as art medium; Nicolas murals of flashed opaque glass. T. Laymon. il Glass Ind 22:518-20 D '41

STAINLESS clad steel. See Steel, Stainless clad

STAINLESS steel. See Steel, Stainless

STAINS

Removal

Aftertreatment of white effects; removal of stains and brightening of colors. Textile Col 64:387-8+ Ag '42
Modern methods of stain removal. Textile Col 64:151-2 Mr '42
See also
Cleaning

STAINS and staining (microscopy)
Biological stains; a handbook on the nature and uses of the dyes employed in the biological laboratory. H. J. Conn and others. 4th ed rev 308p bibliog(p281-98) $3.40 Biotech publications, Geneva, N.Y. '40
Fiber composition of paper; revision of TAPPI standard T 401 m-39. bibliog Paper Tr J 115:23-7 Jl 9 '42
New procedure for staining vaginal smears; diagnosing malignant tumors and other pathological conditions. G. N. Papanicolaou. Science 95:438-9 Ap 24 '42
New technic for staining vaginal smears. E. Shorr. Science 94:545-6 D 5 '41
Sectioning and staining refractory materials in paraffin. T. N. Tahmisian and E. H. Slifer. Science 95:284 Mr 13 '42

STAIRWAYS
Keep in step with safety; avoid injuries from stairways. Safety Eng 83:37 Ap '42
Stairways and ramps; safe passageways between floor levels. il Nat Safety N 45:105+ Mr '42
Watch those steps. P. E. Howell. il diag Nat Safety N 46:70-1+ O '42

STAKHANOVISM
Revival of Stakhanovism. Economist 142:895-6 Je 27 '42

STALIN, Joseph, 1879-
Stalin. E. Ludwig. 248p $2.50 Putnam '42
Three dictators. F. Owen. 2d ed rev 270p $2.50 Norton '41

STALIN prizes. See Rewards, prizes, etc.

STALING of bread. See Bread—Staling

STAMMERING
Stuttering; results from neurotic attention being focused on mouth. J. L. Despert. Sci Am 166:229 My '42

STAMP plan. See Food stamp plan

STAMP tax
Law of stamp duties on deeds and other instruments. E. N. Alpe. 23d ed rev & enl 421p bibliog(p421) 25s Jordan & sons, London '41

STAMPING

Composite stampings replace forgings, castings in ordnance production. G. W. Birdsall. diags Steel 111:82-6+ O 12 '42

Compressed air film doubles stamping speed. Aero Digest 41:154+ Jl '42

Drawing dies for airframe stampings; Kirksite A die material performs efficiently. G. A. Brewer. il Iron Age 149:37-41 My 28 '42

How stampings may replace forgings in design. H. Chase. il Metals & Alloys 15:635 Ap '42

Short run stamping and forming without dies; hand-operated bench machines. A. T. O'Neil. il Steel 109:50-3 D 15 '41

Some typical conversion case histories; redesigning for stampings and castings. W. F. Burchfield. il Metals & Alloys 15:769-70 My '42

Stamping effects cost decrease; patent assigned to Houde engineering corp. diag Machine Design 14:120+ Mr '42

Stampings producers; directory. Machine Design 14:166-74 O '42

Stampings replace Chevrolet forgings. H. Chase. il diags Iron Age 148:64-5 N 20 '41

STAMPING presses

Roll leaf hot stamping and embossing. A. A. Morse. il Mod Packaging 15:80-1 Mr '42

STAMPS, Postage. See Postage stamps

STANDARD brands, inc.

Comparing Standard Brands with General Foods. J. C. Clifford. Mag of Wall St 69:612-14+ Mr 7 '42

STANDARD buildings. See Buildings, Standard

STANDARD costs. See Cost accounting—Standard costs

STANDARD deviation. See Variation (statistics)

STANDARD error of sampling. See Sampling (statistical methods)

STANDARD gas and electric company

Crowley opposes sale of Standard securities now. Elec W News ed 117:1591 My 9 '42

Earnings, 1940 and 1941. Comm & Fin Chr 155:1318 Mr 30 '42

STANDARD of living

Civilian consumption at depression levels seen by National industrial conference board. Comm & Fin Chr 155:567 F 5 '42

Higher living standard for American people is industry's post-war objective. W. P. Witherow. Comm & Fin Chr 156:1186 O 1 '42

Sees living standard at 1932 low in year. L. Henderson. Comm & Fin Chr 155:1875 My 14 '42

Standard of living. M. B. Young. 46p pa 15c Pendle Hill, Wallingford, Pa. '41

War program and living standards. Fed Res Bul 28:987-8 O '42

See also

Budget, Household

Cost of living

STANDARD oil company (Kentucky)

Earnings, 1938-1941. Comm & Fin Chr 155:1023 Mr 9 '42

STANDARD oil company (N.J.)

Annual report. Comm & Fin Chr 155:2099-100 Je 1 '42

Butyl and buna patents freed in consent decree signed by Standard Oil. Rubber Age 51:48-52 Ap '42

Companies with long dividend records. J. C. Clifford. Mag of Wall St 71:21 O 17 '42

Company explains foreign refining patent position. Oil & Gas J 40:21-2+ Ap 2 '42

Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:64-5 [S] '42

Defends Standard of New Jersey; abstract. B. T. Brooks. Chem Ind 50:638 My '42

Farish charges case against Standard jerry-built house; defense by president of Standard oil co. (New Jersey), to agreements made by his company with I. G. Farbenindustrie. Oil & Gas J 41:30-1 Ag 27 '42

Gas holdings may go to stockholders; plans to turn over 4 units to new corporation. Comm & Fin Chr 156:615 Ag 17 '42

German deals speeded our war industry; tells Senate committee charge of curb on rubber has no shadow of foundation. W. S. Farish. Comm & Fin Chr 155:1419 Ap 6 '42

Gets confidence vote—company's relations with German chemical concern endorsed by stockholders. Comm & Fin Chr 155:2287 Je 15 '42

I.G.-S.O. patents to be licensed free. Oil Paint & Drug Rep 141:5+ Ap 13 '42

Jersey-I.G. patent deal gave U.S. edge on war processes, Senate committee told. Nat Pet N 34:5-10, 16 Ag 26 '42

Mexican court orders two properties returned to co. Comm & Fin Chr 156:167 Jl 13 '42

N.J. Standard sued for $100,000,000. Oil Paint & Drug Rep 141:4+ Je 29 '42

Ordered to license patents freely on rubber. Comm & Fin Chr 155:1318 Mr 30 '42

SEC lists company as a utility holding company. Comm & Fin Chr 155:698-9 F 14 '42

Senate probes synthetic rubber; charges against New Jersey Standard. il Nat Pet N 34:3-6, 26, 28 Ap 1; 5-9 Ap 8 '42

Standard of New Jersey gives review of war contributions. Oil & Gas J 41:42 My 14 '42

Standard oil of New Jersey in war and peace. H. E. Rose. Barron's 22:3+ Jl 27 '42

Standard refutes charge of blocking rubber plan. H. D. Ralph. Oil & Gas J 40:20-1 Ap 2 '42

Stock offered. Comm & Fin Chr 155:1758 My 4 '42

Suits consolidated. Comm & Fin Chr 156:262 Jl 20 '42

Synthetic rubber patents freed. Oil Paint & Drug Rep 141:4+ Mr 30 '42

Synthetic rubber patents freed in anti-trust action. India Rubber W 106:58, 61 Ap '42

To divorce natural gas units. Comm & Fin Chr 155:1022-3 Mr 9 '42

Who's who in refining. Oil & Gas J 41:74 Ag 20 '42

STANDARD oil company of California

Company operation of stations; California Standard's program. V. B. Guthrie. il Nat Pet N 34:21-2+ F 4 '42

Consolidated income account for calendar years, 1938-1941. Comm & Fin Chr 156:86 Jl 6 '42

Who's who in refining. Oil & Gas J 40:78 My 7 '42

STANDARD oil company of Indiana

Annual report. Comm & Fin Chr 155:1606 Ap 20 '42

S. O. advertises to clarify stand on synthetic rubber; fourteen oil companies, six chemical and one rayon firm, slated to turn out butadiene and styrene. Sales Management 51:44-5 Ag 1 '42

STANDARD oil company of Kansas

Earnings, 1938-1941. Comm & Fin Chr 155:1022 Mr 9 '42

STANDARD oil company of New York. See Socony-Vacuum oil company

STANDARD oil company of Ohio

Plans to create $20,000,000 debentures. Comm & Fin Chr 155:1927 My 18 '42

Who's who in refining. Oil & Gas J 41:64 My 21 '42

STANDARD power and light corporation

Dissolution ordered by SEC. Comm & Fin Chr 155:2463 Je 29 '42

STANDARD solutions. See Solutions, Standard

STANDARD steel spring company

Armor pool. Business Week p17-18 Ap 4 '42

STANDARDIZATION

Army-navy aeronautical standardization. D. G. Lingle and G. A. Seitz. diag S A E J 50:sup32-3, 66-80 N '42

Aspects of practical standardization. B. C. Boulton. il Aero Digest 39:217-22 D '41

Benefits of material standardization. F. G. Jenkins. bibliog Mech Eng 64:545-8+ Jl '42

Britain standardizes, warily. Business Week p34+ F 28 '42; Abstract. Ind Stand 13:75-7 Mr '42

Building's post-war pattern. Arch Forum 75:353-64 N '41

Facts for an effective consumer standards program. W. B. Floyd. Ind Stand 13:217-20 S '42

STANDARDIZATION—*Continued*

How standards are used in army procurement. B. A. Falk. il Ind Stand 13:158-9 Je '42

How we doubled production; standardized parts, rearranged equipment, better production control system; Monarch machine tool company. P. A. Abe. il Factory Management 100:50-2+ Ap '42

Howard Coonley heads up WPB simplification work. Ind Stand 13:53-4 Mr '42

Legal aspects of standardization and simplification; with correspondence between Attorney General and defense agencies. P. G. Agnew. Ind Stand 12:260-7 O '41

Making it simpler; government's simplification-standardization program. Business Week p17-18 N 22 '41

Materials standardization aids preparation of purchase specifications; General electric company. G. H. Harnden. il Product Eng 13:50-1 Ja '42

National bureau of standards in war simplification and standardization work. L. J. Briggs. Ind Stand 13:149-51 Je '42

New Zealand and Canada act to make standards mandatory. Ind Stand 12:340 D '41

Preferred numbers, Prefernograph simplify product standardization. J. Gaillard. Product Eng 13:665-7 N '42

Standard air parts. Business Week p41 N 22 '41

Standardization activities of national technical and trade organizations. R. A. Martino. U S Nat Bur Stand Misc Pub M169:1-288; 75c Supt. of doc. '41

Standardization and its effect on Latin American trade. C. T. Brady, jr. Ind Stand 12:293-4 N '41

Standardization; Canada moves to regulate qualities and sizes. Business Week p69-71 Mr 14 '42

Standardization, harmonizer of human effort. D. F. Miner. Advanced Management 7:15-22 Ja-Mr '42; Same abr. Ind Stand 13:61-6 Mr '42

Standardization in European shipbuilding. Marine Eng 47:149-50 Ag '42

Standardization movement; effects on efficiency and on competition. W. J. Casey. Trusts & Estates 74:16-17 Ja '42

Standardization of small tools. W. E. Miller. il Aviation 41:152+ Jl '42

Standardization program for Association of well head equipment manufacturers. Pet Eng 13:97-9 Jl '42

Symposium on standardization as it affects refrigeration. Refrig Eng 43:223-6 Ap '42

WPB drives for simplified lines and standards. H. Coonley. il Ind Stand 13:137-41 Je '42

War spurs standardization. Barron's 21:5 D 22 '41

See also
Color—Standards
Electric equipment—Standards
Electric standards
also American standards association

STANDARDS

ASTM committees adopt emergency alternate standards. Ind Stand 13:121-4 My '42

ASTM takes action on standards for 1941; committee meetings. Ind Stand 12:271-5 O '41

ASA approves standard mechanical symbols for uniform use on drawings. R. L. Young. Ind Stand 13:55-9 Mr '42

Concentration of industry to be based on standards. P. G. Agnew. Ind Stand 13:241-2 O '42

Cooperatives to use standards for all grocery products. Ind Stand 12:307 N '41

Definitions of electrical terms. 300p $1; Am. standards assn. N.Y. '42; Review, by C. H. Sanderson. Ind Stand 13:114-16 My '42

How Brazil develops national standards. P. Sá. Ind Stand 13:73-4 Mr '42

Many WPB and OPA orders are based on standards. Ind Stand 13:262-5 O '42

Memoranda clarify working relations on standards; cooperative relations of the OPM, OPA, the National bureau of standards, and the American standards association. Ind Stand 13:11-12 Ja '42

New standard shows how to control quality during production; ASA publishes third American emergency standard. diag Ind Stand 13:109-10 My '42

1942 SAE handbook includes important new standards. Ind Stand 13:125-6 My '42

OPA uses standards as operating controls. Ind Stand 13:215-16 S '42

Price control requires standards. L. Henderson. Ind Stand 13:146-8 Je '42

Report of A.S.T.M. committee E-10 on standards. Am Soc T M Proc 41:513-17 '41

69 new standards, 15 new projects mark most active year for ASA. R. P. Anderson. Ind Stand 13:7-10 Ja '42

Standard abbreviations; time and space saving lists of engineering terms for use in drawings and specifications. Dom Eng 160:45+ Ag '42

Standard samples check laboratory reliability; issued by the National bureau of standards. H. A. Bright. il Ind Stand 12:268-9 O '41

Standards for letter symbols; mechanics and hydraulics. Civil Eng 12:58-61 Ja '42

Standards in the war effort. il Ind Stand 13:137-81 Je '42

Standards of the American society for testing materials. Science 95:473-4 My 8 '42

WPB and OPA orders are based on standards. Ind Stand 13:229-35 S '42

See also
Electric standards
Products, Certification of
Quality of products
Safety standards
Textile standards
Time study
Weights and measures
also subdivision Standards under various subjects, e.g.
Canned food
Color
Food
Photography
Screw threads
also United States—Price administration, Office of—Standards division

Bibliography

ASA library receives new foreign standards. Ind Stand 13:26, 45, 77, 100, 173, 203, 236, 255-6, 276, 305 Ja-Ap, Je-Jl, S-D '42

ASA standards activities; approved standards available since September. Ind Stand 12:282-3 O '41 [cont monthly]

American standards; with prices and index. Ind Stand 13:1-16 pt 3 F '42

List of American standards. 16p Am. standards assn, New York '42

New association and government standards (cont). Ind Stand 13:20-2, 46-8, 70-2, 103-5, 131-3, 179-81, 199-202, 226-8, 259-61, 289-90, 315-16 Ja-Jl, S-D '42

New standards approved by ASA since the last annual meeting. Ind Stand 13:8 Ja '42

STANDARDS, Electric. See Electric standards

STANDARDS, Engineering

American mechanical standards made and in the making. J. Gaillard. il Ind Stand 12:321-39 D '41

Canadian standards association takes action for war; emergency measures as means of conserving steel, tin, zinc, brass, rubber, and other materials. Ind Stand 13:251 O '42

Design of 100-octane units being standardized by OPC. H. S. Norman. il Oil & Gas J 40:10-11 F 12 '42

Getting out the guns; prime contractor finds use of standards makes subcontracts click. T. R. Jones. il Ind Stand 13:160-2 Je '42

Standard abbreviations; time and space saving lists of engineering terms for use in drawings and specifications. Dom Eng 160:45+ Ag '42

Standards smooth the path of the sub-contractor. W. L. Fenn. il Ind Stand 13:162-4 Je '42

STANDARDS, Engineering—*Continued*

What and why of the new American standard letter symbols for hydraulics. J. C. Stevens. Ind Stand 13:87-9 Ap '42

See also
Electric standards
Standardization
also subdivision Standards under special subjects, e.g. Boilers—Standards

STANDARDS association, American. See American standards association

STANDARDS of measurement. See Measurement; Weights and measures

STANDLEY, William Harrison, 1872-

Supply expert is envoy to Moscow. por Business Week p7 F 14 '42

STANDPIPES

Beware of rackets in the maintenance of steel water tanks and standpipes. il Water & Sewage 80:28+ Mr '42

Jonesboro kills two birds with one stone; elevated water tank reduces pumping load on power plant. L. M. Rebsamen. il Water Works & Sewerage 89:24-7 Ja '42

Maintenance of elevated tanks and standpipes. C. J. Leary. Am Water Works Assn J 34:63-8 Ja '42

Standards

Standard specifications for elevated steel water tanks, standpipes and reservoirs. map N E Water Works Assn J 55:sup 1-45 D '41

STANLEY plan. See Contracts, Government—Subcontracting

STANNIC acid

Soap stabilization; abstract. Soap & San Chem 18:57 Ja '42

STANTON, Edwin McMasters, 1814-1869

Lincoln's secretary of war, Edwin M. Stanton understood the first rule of war leadership: get tough. por Fortune 26:114-15 O '42

STANTON, Thomas Elwood, 1881-

Sketch. por Civil Eng 11:736 D '41

STAPHYLOCOCCI

Development of resistance in staphylococci to natural inhibitory substances. R. L. Phillips and L. H. Barnes. Franklin Inst J 233:396-401 Ap '42

Effect of penicillin on the growth and morphology of staphylococcus aureus. L. D. Smith and T. Hay. il Franklin Inst J 233: 598-602 Je '42

Use of dried plasma for the coagulase test. E. J. Foley. Science 95:416 Ap 17 '42

STAPLE fibers, Rayon. See Rayon fibers

STAPLEDON, Sir George, 1882-

Grassland research in Great Britain. Science 95:641-2 Je 26 '42

STARCH

Constitution of the starch synthesised *in vitro* by the agency of potato phosphorylase. W. N. Haworth, R. L. Heath and S. Peat. Chem Soc J p55-8 Ja '42

Derivatives of starch; physical properties of the acetyl derivatives. C. A. Burkhard and E. F. Degering. bibliog Rayon 23:416-19 Jl '42

Derivatives of starch; preparation of acetyl derivatives. C. A. Burkhard and E. F. Degering. bibliog Rayon 23:340-3 Je '42

Dextrines and semi-dextrines from minor starches. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:189-91, 201-2 Ap 11-18 '42

Estimation of the dialdehyde type of oxidation in oxystarches and oxycelluloses. D. H. Grangaard, E. K. Gladding and C. B. Purves. bibliog Paper Tr J 115:41-6 Ag 13 '42

Evaluating starches for textile purposes. W. T. Schreiber and W. L. Stafford. il Ind & Eng Chem Anal ed 14:227-31 Mr 15 '42

Fractionation of wheat starch. L. H. Lampitt, C. H. F. Fuller and N. Goldenberg. bibliog pls Soc Chem Ind J 60:1-6, 25-9, 47-50, 69-72, 99-111, 137-41, 175-84, 231-41, 301-5 Ja-Jl, S, D '41

Graphical calculation of nonisothermal reactions. J. W. Greene, J. B. Sutherland and G. Sklar. Ind & Eng Chem 34:65-7 Ja '42

Measuring viscosity of starch pastes; abstract. B. Brimhall and R. M. Hixon. Food Ind 14:107 N '42

Modified starches: action of alkalis on starches. G. B. Jambuserwala. bibliog Textile Inst J 32:T201-8 O '41; Abstract. Textile Col 64:65-6+ F '42

Nature of the fatty acids associated with starch; the adsorption of palmitic acid by potato and defatted corn and rice starches. L. Lehrman. bibliog Am Chem Soc J 64: 2144-6 S '42

Oxidation of raw starch granules by electrolysis in alkaline sodium chloride solution. F. F. Farley and R. M. Hixon. bibliog il Ind & Eng Chem 34:677-81 Je '42

Precipitated starch product; effect of soap on viscosity. C. C. Kesler and W. C. Black. bibliog Paper Tr J 114:57-60 My 21 '42

Preparation of new glycosides; direct alcoholysis of starch. S. M. Cantor. Chem Age (Lond) 45:213 O 18 '41

Probable structure of a crystalline substance derived from starches oxidized with periodate. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:585-8 Mr '42

Reaction between periodate oxidized starch and methanol containing hydrogen chloride. J. H. Michell and C. B. Purves. bibliog Am Chem Soc J 64:589-93 Mr '42

Significance of the "V" X-ray diffraction patterns of starches. R. S. Bear. bibliog il Am Chem Soc J 64:1388-92 Je '42

Starch evaluation by a new viscosity method. C. A. Briggs and J. L. McCarthy. Paper Tr J 114:37-40 Ja 22 '42

Starch studies; gelatinization of starches in water and in aqueous pyridine. J. W. Mullen, 2d and E. Pacsu. bibliog il Ind & Eng Chem 34:807-12 Jl '42

Starch studies; preparation and properties of starch triesters. J. W. Mullen, 2d and E. Pacsu. bibliog(65 references) il Ind & Eng Chem 34:1209-17 O '42

Starches in paper and paperboard manufacture. J. P. Casey. Paper Tr J 114:107-12, 114, 116-17 F 19 '42

Studies in esterification; preparation and properties of starch propionate. D. E. Mack and R. N. Shreve. bibliog diag Ind & Eng Chem 34:304-9 Mr '42

Study of the products obtained from starch by the action of the amylase of bacillus macerans. W. S. McClenahan, E. B. Tilden and C. S. Hudson. bibliog Am Chem Soc J 64:2139-44 S '42

Textile chemist meets national defense emergency. Am Dyestuff Rep 30:690-2 D 8 '41

Use of urea-formaldehyde resin for waterproofing starch used in corrugated and solid fiberboard production. P. B. Taft. bibliog Paper Tr J 115:30-2 O 15 '42

Vegetable oils in sugar confectionery; sweetening agents; solubilising starch. A. E. Williams. Chem Age (Lond) 47:362-4 O 24 '42

Waxy gets a job; variety of hybrid corn may substitute for tapioca. Business Week p64 My 2 '42

Waxy starch from sorghum. Food Ind 14:76-7 Ag '42

Waxy starch of maize and other cereals; a possible competitor for tapioca. R. M. Hixon and G. F. Sprague. bibliog il Ind & Eng Chem 34:959-62 Ag '42

See also
Cornstarch
Potato starch

Analysis

Determination of starch by the A.O.A.C. malt-diastase method; effect of pretreatment of samples. R. T. Balch and J. K. Phillips. Ind & Eng Chem Anal ed 13:815-18 N 15 '41

Estimation of COOH groups in commercial starches modified by oxidation; silver method; copper method. L. H. Elizer. Ind & Eng Chem Anal ed 14:635-6 Ag 15 '42

STARCH—Analysis—*Continued*
Polarimetric determination of starch in cereal products; abstract. K. A. Clendenning. Food Ind 14:107 N '42

STARRETT, L. S., company
Stocks in strategic market position. Mag of Wall St 69:706 Ap 4 '42

STARS
Age of the sun and stars; abstract. G. Gamow. Science 94:sup10 N 7 '41
Discovery of a red star. Science 95:sup10-11 Mr 13 '42
Distant galaxies; abstract. H. Shapley. Science 95:sup8 F 27 '42
Large scale distribution of matter in the universe. F. Zwicky. bibliog il Phys R 61:489-503 Ap 1 '42
Principles of stellar dynamics. S. Chandrasehkar. 251p $5 Univ. of Chicago press '42
Star of 1054. H. N. Russell. il Sci Am 167:64-5 Ag '42
See also
Astronomy
Nautical astronomy
Nebulae

Counting

Photoelectric star counter. S. W. McCuskey and R. M. Scott. il diags R Sci Instr 12:597-601 D '41

Motion

New Pleiades; investigations of proper motions have added more stars to cluster. H. N. Russell. Sci Am 166:180-1 Ap '42

New

Novae; abstract. D. B. McLaughlin. Science 96:sup10 O 2 '42

Photographic measurements

Determination of position from a photographic plate. S. Herrick, jr. (Contributions of the Los Angeles astronomical dept. v 1 no 2) p57-72 pa 25c Univ. of California press, Berkeley '41

Radiation

Cosmic static. G. Reber. il diags Inst Radio Eng Proc 30:367-78 Ag '42

Spectra

Nebular spectrum; evidence for the uniformity of composition of matter in space. H. N. Russell. il Sci Am 167:114-15 S '42

STARS, Double
Astronomical work at Mount Wilson. Science 95:sup8 F 20 '42
Orbit sleuthing; how the astronomer determines the size and shapes of a double star's orbit. H. N. Russell. Sci Am 166:134-5 Mr '42

STARS, Variable
American association of variable star observers 11th annual report. L. Campbell. Science 96:405-6 O 30 '42
History and bibliography of the light variations of variable stars. R. Prager. 2d ed 251p pa $4 Astronomical observatory, Harvard college, Cambridge, Mass. '41
Pulsating stars. Science 96:sup12 N 6 '42
RW Tauri; remarkable eclipsing variable star. H. N. Russell. diag Sci Am 167:16-17 Jl '42

STATE, The
See also
Industry and state
Railroads and state
Science and state

STATE accounting
State financial report; annual report of the comptroller of the state of New York. J Account 74:360-1 O '42

STATE advertising
Advertising by the states. J. B. Clegg, comp. rev ed 36p pa $1 Council of state governments, Chicago '41
Many states will promote travel, despite war, governors report. Sales Management 50:23-4 Mr 15 '42

STATE banks. See Banks and banking, State

STATE bonds
Municipal news; recommendations of Secretary Morgenthau to tax future as well as outstanding bonds of states and their political subdivisions. J. Borg. Comm & Fin Chr 155:1136 Mr 19 '42

STATE budget. See Budget, State

STATE buildings
See also
Highway departments—Buildings

STATE contracts. See Contracts, State

STATE debts. See State finance

STATE defense guards
Geologist and the state defense guards. W. A. Price. Am Assn Pet Geologists Bul 26:282-4 F '42

STATE employees
Employment and pay rolls in state and local governments, 1941. Monthly Labor R 53:1168-71 N '41
Maintenance of institutional employees; summary of values established in the various states. 36p pa 50c Council of state governments, 1313 E. 60th st, Chicago '42

STATE farm mutual automobile insurance company
State farm loses Wisconsin decision. Nat Underw 46:20 Ja 15 '42
Theory of membership fee pondered in Wisconsin case. Nat Underw 46:20 Ja 22 '42

STATE finance
Buying municipals in wartime. G. C. Cummin. Barron's 22:9 Ag 10 '42
Financing government in Michigan. R. S. Ford and A. Waxman. 213p bibliog(p204-9) pa $1 Univ. of Michigan press, Ann Arbor '42
How gasoline rationing affects states; importance of automobile use taxes to various states in 1941. J. D. Kelley. Barron's 22:5 Jl 20 '42
Prosperity pains; state tax setups now yielding record revenues. Business Week p48 D 6 '41
States with surplus cash pay debt, put aside funds for post-war projects. Comm & Fin Chr 155:552 F 5 '42
War effect on state revenues. Comm & Fin Chr 156:880 S 10 '42
See also
Budget, State
State bonds
Taxation, State
also State subdivisions under heading Finance, e.g. Finance—New Jersey

STATE governments
American state government. W. B. Graves. rev ed 944p $4 Heath '41
Book of the states, 1941-1942; supplement. 36p pa 25c Council of state governments, 1313 E. 60th st, Chicago '42
California state government. D. Anderson. 350p $2.90 Stanford univ. press '42
Distribution of health services in the structure of state government. J. W. Mountin and E. Flook. Pub Health Rep 56:1673-98, 2233-58; 57:65-90, 553-78, 885-902, 917-48, 1195-1209, 1236-75 Ag 22, N 21 '41, Ja 16, Ap 17, Je 12-19, Ag 14-21 '42
Growth of state administration in Alabama. R. C. Martin. 96p bibliog(p93) Bur. of public administration, Univ. of Alabama, University, Ala. '42
Minnesota commission of administration and finance, 1925-1939; an administrative history. L. M. Short and C. W. Tiller. 160p bibliog(p148-50) pa $2 Univ. of Minnesota press, Minneapolis '42
Model state constitution, with explanatory articles. 4th ed rev 53p pa 50c Nat. municipal league, New York '41
Proceedings of the National association of secretaries of state, 24th conference, Los Angeles, Aug. 27-30, 1941. 51p pa $1 Council of state governments, 1313 E. 60th st, Chicago '41

STATE governments—*Continued*

Report of the Alabama policy conference on Alabama state government; merit system, state planning, pardons and paroles, Montgomery, Nov. 28, 1941. C. W. Edwards, ed. 16p Alabama policy committee, C. W. Edwards, sec-treas, Auburn, Ala. '41

See also

Governors (United States)
Highway departments
Public utilities commissions
State legislatures

Federal relations

Federal coöperation with the states under the commerce clause. J. E. Kallenbach. 428p bibliog(p385-94) $4 Univ. of Michigan press, Ann Arbor, Mich. '42

STATE labor boards. See Labor boards, State

STATE lands. See Public lands

STATE laws

Birth certificates; a digest of the laws and regulations of the various states. E. H. Davis. 136p $1.50 Wilson, H.W. '42

California antimigrant law unconstitutional. Monthly Labor R 54:127 Ja '42

Emergency war powers of the states. Monthly Labor R 54:1084-7 My '42

Fiduciary legislation, 1941-1942. R. H. Spotts. Trusts & Estates 75:297-9 S '42

Important measures which became law in several states in 1942. Weekly Underw 146: 1047, 1072-3 My 9 '42

Nuncupative and holographic wills. W. O. Wilson. Trusts & Estates 75:319-22 S '42

Progress of state minimum-wage legislation, 1941. L. Stitt and F. P. Smith. Monthly Labor R 54:585-93 Mr '42

State diphtheria immunization requirements; comparative analysis of statutes and health department regulations. W. Fowler. Pub Health Rep 57:325-8 Mr 6 '42

State law index; an index to the legislation of the states of the United States enacted during the biennium, 1939-1940. v8 706p U.S. Lib. of Congress, Legislative reference service, Washington; $1.50 Supt. of doc. '41

State milk and dairy legislation. 595p Work projects administration, Washington, D.C; $1.50 Supt. of doc. '41

State rural land use legislation in 1941. A. B. Jebens. bibliog J Land & Pub Util Econ 18:328-38 Ag '42

State supervision of local debt administration. Comm & Fin Chr 155:840 F 26 '42

Status of surviving spouse and right of election. W. C. Wiseman. Trusts & Estates 75: 289-96 S '42

What the laws say about keeping old records. J. Y. Beaty. Bankers Mo 58:548-9+ D '41

Will war raze the state line trade barriers? H. Corey. Pub Util 30:417-24 S 24 '42

See also

Inheritance tax
Interstate commerce
Taxation, State

STATE legislatures

Legislative sessions in 1942. Monthly Labor R 53:1220 N '41

STATE liability

Texas situation as to insurance for public bodies. Nat Underw 46:22 Ja 29 '42

STATE mutual life assurance company, Worcester, Massachusetts

Company analysis. L. S. Fischer. Spectator (Life ed) 149:57-60, 70-1 Jl '42

STATE officials

See also International association of governmental labor officials

STATE parks

1942 yearbook; park and recreation progress. 48p pa $1 Nat. conference on state parks, 901 Union trust bldg, Washington, D.C. '42

STATE planning

New York provides for state post-war public works planning program. Comm & Fin Chr 155:1936 My 21 '42

Post-war planning programs begun by New York and New York city. Eng N 129:115 Jl 16 '42

Report of the ninth Alabama policy conference on planning: agricultural, state regional, health, Birmingham, Feb. 6, 1942. C. W. Edwards, ed. 24p Alabama policy committee, C. W. Edwards, sec-treas, Auburn, Ala. '42

STATE publications

Guides and aids to public documents, 1941. J. K. Wilcox. bibliog Special Lib 33:79-84, 124-6 Mr-Ap '42

Bibliography

Official defense publications: supplement guide to state and federal publications. J. K. Wilcox. 135p pa $1 Bur. of public administration, Univ. of Calif, Berkeley '42

Official war publications; guide to state, federal, and Canadian publications. J. K. Wilcox. 212p pa $1.50 Bur. of public administration, Univ. of California, Berkeley '42

STATE rights

Municipal bond tax proposal seen threat to state autonomy. J. A. White. Comm & Fin Chr 155:1129+ Mr 19 '42

STATE taxation. See Taxation, State

STATEN ISLAND Edison corporation

LaGuardia wants to buy Staten Island Edison. Pub Util 30:433 S 24 '42

Mayor LaGuardia asks New York to buy Staten Island Edison. Elec W 118:778 S 5 '42

Mayor LaGuardia favors purchase by New York city. Comm & Fin Chr 156:966 S 14 '42

STATESMEN

Living biographies of American statesmen. H. Thomas and D. L. Thomas. 323p $1.98 Garden City pub. co, Garden City, N.Y. '42

Rulers of the world. M. Crain. 2d rev ed 266p $2 Crowell '42

STATESMEN, British

British statesmen. E. Barker. 48p bibliog(p6) $1.35 William Collins sons & co, 70 Bond st, Toronto, 2 '41

STATIC electricity. See Electricity, Static

STATICS

See also

Dynamics
Elasticity
Electrostatics
Graphic statics
Strains and stresses

STATISTICAL drafting machine

Mechanization of statistical drafting. R. von Huhn. Am Statis Assn J 37:387-90 S '42

STATISTICAL mechanics

Contribution to statistical mechanics. J. E. Mayer. J Chem Phys 10:629-43 O '42

Flow of energy in thermal transpiration for a Bose-Einstein and a Fermi-Dirac gas. D. V. Gogate and D. S. Kothari. Phys R 61: 349-58 Mr 1 '42

Note on statistical forces. L. Goldstein. J Chem Phys 10:295-7 My '42

Statistical distribution laws for rate processes. B. Longtin. bibliog J Chem Phys 10:546-50 Ag '42

Statistical distribution laws for rate processes; non-uniform distributions. B. Longtin. J Chem Phys 10:551-6 Ag '42

Statistical mechanics of binary mixtures. T. Alfrey and H. Mark. J Chem Phys 10:303-4 My '42

Statistical mechanics of change of state. H. Snyder. Phys R 62:63-7 Jl 1 '42

Statistical mechanics of nearest neighbor systems; general theory and application to two-dimensional ferromagnets. E. W. Montroll. J Chem Phys 10:61-77 Ja '42

Thermodynamics of high polymer solutions. P. J. Flory. bibliog J Chem Phys 10:51-61 Ja '42

See also

Bose-Einstein statistics
Wave mechanics

STATISTICAL methods

Analysis of merycoidodon skulls. F. B. Phleger, jr. and W. S. Putnam. bibliog Am J Sci 240:547-66 Ag '42

Analyzing the degree of randomness in weather data. R. E. Kennedy. Civil Eng 12:34-6 Ja '42

Application of statistical analysis with special reference to the assay of vitamins. C. A. Morrell. Chem & Ind 61:35-9 Ja 17 '42

Application of statistical control to the quality of materials and manufactured products. C. G. Darwin; F. Gill. il diag Inst Mech Eng J & Proc 147:Proc 125-33 Je '42; Same cond. Inst E E J 89 pt 1:303-8 Jl '42; Abstracts. Elec R (Lond) 130:497-8 Ap 17 '42; Electrician 128:388-90 Ap 24 '42; Engineer 173:346-7, 374-6 Ap 24-My 1 '42; Discussion. Inst Mech Eng J & Proc 147: Proc 133-44 Je '42; Electrician 128:390-3 Ap 24 '42; Inst E E J 89 pt 1:308-11 Jl '42

Application of statistical methods to ordnance engineering. L. E. Simon. Am Statis Assn J 37:313-24 S '42

Classification of the problems of statistical inference. W. E. Deming. diag Am Statis Assn J 37:173-85 Je '42

Computational short cut for regressions based on unequal frequencies. M. M. Sandomire. Am Statis Assn J 37:282-4 Je '42

Contribution of statistics to the science of engineering. W. A. Shewhart. Metal Prog 41:854+ Je '42

Controlled experiment and the four-fold table. E. B. Wilson. Science 93:557-60 Je 13 '41; Discussion. 94:210-11; 96:13-14 Ag 29 '41, Jl 3 '42

Determine transformer load from customer records. J. Wallis and P. Shelley. Elec W 116:1872-4+ D 13 '41

Distribution of amplitude with time in fluctuation noise. V. D. Landon. Inst Radio Eng Proc 29:50-5 F '41; Discussion. 30:425-9 S 42; Correction. 30:526 N '42

Effect of the full moon on trout fishing. C. M. Mottley and D. R. Embody. Am Statis Assn J 37:41-7 Mr '42

Evaluation of radio-noise-meter performance in terms of listening experience. C. M. Burrill. diag Inst Radio Eng Proc 30:473-8 O '42

Factor analysis; a synthesis of factorial methods. K. J. Holzinger and H. H. Harman. 417p bibliog(p398-405) $5 Univ. of Chicago press '41; Review by H. Hotelling. Science 95:504-7 My 15 '42

Forecasting the academic achievement of engineering students. C. H. Siemens. J Eng Educ 32:617-21 Ap '42

Formula gives accident hazard at grade crossings. L. E. Peabody and T. B. Dimmick. il Ry Age 112:203-7 Ja 17 '42

Fundamental statistics in psychology and education. J. P. Guilford. 333p $3.25 McGraw-Hill '42

How industrial profits compare with 1940; composite figures often misleading. R. S. Conway. Barron's 21:20 D 15 '41

Industrial statistics; statistical technique applied to problems in industrial research and quality control. H. A. Freeman. 178p bibliog(p159-62) $2.50 Wiley '42; Review by G. P. Wadsworth. Mech Eng 64:613-14 Ag '42

Mathematical expression and interpretation of scientific measurements. W. W. Razim. bibliog J Chem Educ 19:411-14 S '42

Model quality control charts. H. Rissik. Engineer 174:64-5, 86-9, 106-8 Jl 24-Ag 7 '42

New method for obtaining the inverse matrix. M. D. Bingham. Am Statis Assn J 36:530-4 D '41

Norms of growth. E. B. Wilson. Science 95: 112-13 Ja 30 '42

Probability graph paper and its engineering applications. H. Rissik. Engineer 172:276-8, 296-8 O 24-31 '41; Discussion. U. R. Evans. 173:143 F 13 '42

Quality control in manufacture. H. Rissik. diag Electrician 128:276-80 Mr 27 '42

Sampling inspection; methods of applying statistical analysis for quality control. B. P. Dudding. Automobile Eng 32:109-13 Mr '42

Sampling of imported wool for the determination of clean wool content. H. J. Wollner and L. Tanner. bibliog Ind & Eng Chem Anal ed 13:883-7 D 15 '41

Statistical analysis in hydrology. L. R. Beard. Am Soc C E Proc 68:1077-88 S '42; Discussion. 68:1458-64, 1661-9, 1847-9 O-D '42

Statistical analysis of service stresses in aircraft wings; abstract. H. W. Kaul. Roy Aeronautical Soc J 46:345 O '42

Statistical basis of the quality control program. S. S. Wilks. J Eng Educ 32:328-34 D '41

Statistical control of repetition work. Engineering 153:332-3 Ap 24 '42

Statistical method; forecasting electric energy demand and regulating supply. C. C. Lienau. J Land & Pub Util Econ 18:102-5 F '42

Statistical methods and human heredity; abstract. J. B. S. Haldane. Science 95:sup 12 Mr 20 '42

Statistical methods applied to agricultural economics. F. A. Pearson and K. R. Bennett. 443p $4 Wiley '42

Statistical methods for research workers. R. A. Fisher. 8th ed rev & enl 344p bibliog (p330-9) 16s Oliver & Boyd, Edinburgh '41

Statistical methods in textile research; the design of weaving experiments. V. R. Main and L. H. C. Tippett. Textile Inst J 32: T209-20 N '41

Statistical predictions on aeronautic instrument maintenance. C. Worsham. Instruments 15:372+ S '42

Statistical theory of the effect of dimensions and of method of loading upon the modulus of rupture of beams. J. Tucker, jr. bibliog Am Soc T M Proc 41:1072-88; Discussion. 1089-94 '41

Technique of quality control; from L. E. Simon's book An engineer's manual of statistical methods. Engineer 173:100-2 Ja 30 '42

Use of statistical control in corrosion and contact resistance studies. W. E. Campbell. Electrochem Soc Trans 81 (preprint 26): 391-404 Ap '42

See also

Business forecasting
Correlation (statistics)
Frequency distribution (statistics)
Graphic methods
Index numbers (economics)
Least squares
Probabilities
Sampling (statistical methods)
Seasonal variation (statistics)
Time distribution
Variation (statistics)

Study and teaching

First course in statistics; their use and interpretation in education and psychology. E. F. Lindquist. rev ed 242p $2.50 Houghton '42

Teaching quality control theory to engineers. L. C. Young. J Eng Educ 32:667-72 Ap '42

Workbook for business statistics. R. K. Ellis, G. R. Davies and D. Yoder. pa $1 Wiley '41

STATISTICAL workers. See Statisticians

STATISTICIANS

Directory of federal statistical agencies; a list of administrative, research, and data-collecting personnel. 6th ed 210p U.S. Bur. of the budget, Washington '42

Government and the statistician. W. W. Riefler. Am Statis Assn J 37:1-11 Mr '42

STATISTICS

Deduction or induction? how to handle statistics. P. Schiller. Elec R (Lond) 131:125 Jl 24 '42

Economic and social statistics. L. A. Maverick. 173p pa $3 Univ. of California press, Berkeley '41

STATISTICS—*Continued*

Introduction to the theory of statistics. G. U. Yule and M. G. Kendall. 12th ed rev 570p bibliog(p495-529) $10 Lippincott '40

See also

Business statistics
Census
Commercial statistics
Correlation (statistics)
Economic statistics
Gallup surveys
Government statistics
Index numbers (economics)
Industrial statistics
League of nations—Statistical work
Market statistics
Sales statistics
Seasonal variation (statistics)
Significant difference (statistics)
Statistical methods
Tabulation
Variation (statistics)

also subdivision Statistics under various subjects, e.g.

Accidents, Industrial
Cancer
Cotton trade
Employment
Labor and laboring classes
Mortality
Population
Production
Railroads
Unemployment

Bibliography

1941 manuals, statistical publications and guides. (Business literature v 14, no 5) p2 Business branch, Newark public lib, Newark, N.J. Ja '42

STATISTICS, Mathematical. See Mathematical statistics

STATUE of Liberty

Statue of Liberty to be beautified with new lighting. Illum Eng 36:953 D '41

STATURE

Average height of American men; possibility of selecting men from different sections for different types of service. S. L. Calhoun. Science 95:529 My 22 '42; Discussion. L. B. Chenoweth. 95:648-9 Je 26 '42

STATUTE of limitations. See Limitation of actions

STAUDINGER equation

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

STAVES, Concrete. See Concrete staves

STAYBOLTS

Old dam anchored with stay bolts. diags Elec W 117:1838 My 30 '42

STEAM

Bled steam for chemical processing; importance of economic engine design. H. Seymour. Chem Age (Lond) 46:111-12 F 28 '42

Bottom vents for vertical retorts. O. F. Ecklund and H. A. Benjamin. diags Food Ind 14:40-2+ Mr '42

Coal pulverized by steam guns; abstract. Mech Eng 64:483-4 Je '42

Determination of water-immiscible organic solvents volatile with steam in sulfonated (sulfated) oils; report no. 8 of the subcommittee on sulfonated oils. diags Am Dyestuff Rep 31:64-70 F 2 '42

Drill stem on rotary rig cleaned with steam. il Pet Eng 13:44 Je '42

Effect of steam and hot water with soda ash and a wetting agent on properties of clay. H. G. Schurecht, J. F. McMahon and C. M. Lampman. il Am Cer Soc J 25:346-51 Ag 1 '42

Fire caused by steam-heated pipes. B. Schweig. Chem Age (Lond) 46:169 Mr 28 '42

High pressure steam as a solvent; abstract. O. Fuchs. Chem & Met Eng 49:180 F '42

Paraffin removal by heated oil; steam generator and heat exchanger used. T. P. Sanders. il diag Oil & Gas J 40:33-4 F 19 '42

Powders and cleans coal by blasting its pores by a release of steam. Coal Age 47:59 Je '42; Heating-Piping 14:472 Ag '42

Pulverisation of coal by high-pressure steam. Engineering 154:145 Ag 21 '42

Purifying steam for process work. C. H. S. Tupholme. Am Dyestuff Rep 31:167-9 Mr 30 '42

Recompression phenomena in steam nozzles; abstract. C. A. Robb. Chem & Met Eng 49:154 Ja '42

Rectification in the presence of an insoluble component. E. M. Schoenborn, J. H. Koffolt and J. R. Withrow. bibliog il diag Am Inst Chem Eng Trans 37:997-1016; Discussion. 1016-21 D '41

Second virial coefficients of polar gas mixtures. W. H. Stockmayer. bibliog J Chem Phys 9:863-70 D '41

Sludge digestion temperature control with live steam. A. M. Rawn. il plan Water Works & Sewerage 89:310-13 Jl '42

Specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen and the free energy equation for the water-gas reaction. M. deK. Thompson. bibliog Electrochem Soc Trans 82 (preprint 8):95-100 O '42

Steam cleaner improved. W. A. Wallace. plan Transit J 86:144 Ap '42

Steam cooling for mechanical-stoker grates. B. M. Thornton. bibliog diags Engineering 154:183-5, 214-15 S 4-11 '42

Steam gauge as an index of drying conditions. W. G. MacNaughton. bibliog Paper Ind 23:793-6 N '41

Steam plant for cleaning machinery; portable or stationary generators. il Chem Age (Lond) 46:147 Mr 14 '42

Steam removes ice and dirt. Transit J 85:428-9 N '41

Steam requirements of process equipment; data sheet. Heating-Piping 14:675-6 N '42

Steam saved by better water removal at the presses. W. G. MacNaughton. diags Paper Tr J 115:33-40 Ag 27 '42

Steam-temperature control; constancy over a wide range of turbine loading. diags Elec R (Lond) 130:615-18 My 15 '42

Symposium on problems and practice in determining steam purity by conductivity methods. R. E. Hall and others. il diags Am Soc T M Proc 41:1261-1336 bibliog(75 titles, p1338-40) '41

Technical and economic study of drying lignite and subbituminous coal by the Fleissner process. L. C. Harrington, V. F. Parry and A. Koth. il diags U S Bur Mines Tech Pa 633:1-84; pa 20c Supt. of doc. '42

See also

Boilers
Condensers (steam)
Electric plants (central stations)
Evaporators
Feed water purification
Steam engines
Steam heating
Steam pipes
Steam plants
Steam turbines
Thermodynamics

Bibliography

Steam purity. Am Soc T M Proc 41:1338-40 '41

Tables, calculations, etc.

Properties of saturated steam. G. M. Stearns. Oil & Gas J 41:171 Jl 30; 57-8 Ag 6 '42

Steam table drills. P. Swain. diags Power 86:54, 126, 202, 278, 346, 429 Ja-Je '42

See also

Steam engineering—Tables, calculations, etc.

Testing

Symposium on problems and practice in determining steam purity by conductivity methods. R. E. Hall and others. il diags Am Soc T M Proc 41:1261-1336 '41

STEAM, Superheated. See Superheated steam

STEAM accumulators

Improving production with steam accumulators; abstract. Heat & Ven 39:36 S '42

Utilisation of spare and standby boilers. il diag Engineer 173:535 Je 26 '42

STEAM boilers. See Boilers

STEAM condensers. See Condensers (steam)

STEAM distribution

Trading steam creates more boiler capacity. Power 86:637 S '42

See also

Electric plants (central stations)—Steam distribution

Piping (power plants)

Steam pipes

STEAM ejectors. See Steam jets

STEAM engineering

From stationary steam to marine engineer. F. V. Smith. il Power 86:737-9 O '42

How and why for engineers and firemen; a treatise on the care and operation of steam boilers, pumps, combustion, air compressors, and heating and ventilating machinery. F. D. Dickinson. rev ed 101p $8 Freeman Dwight Dickinson, 52 Hanover st, Boston '42

See also

Boiler plants

Evaporators

Marine engineering

Mechanical engineering

Power (mechanics)

Steam engines

Steam fitting

Steam heating

Steam pipes

Steam plants

Steam turbines

Steamboats

Superheated steam

Study and teaching

History of instruction in heat power in the United States. A. M. Greene, jr. J Eng Educ 33:112-25 O '42

Tables, calculations, etc.

Fundamental principles of the steam ejector. R. Roylds and E. Johnson. diags Inst Mech Eng J & Proc 145:Proc 193-209 O '41; Discussion. 146:Proc 223-35 Mr '42

STEAM engineers

Engineers wanted, for fast geared-turbine cargo ships. il Power 86:557-9 Ag '42

STEAM engines

Checking up on an old engine. C. C. Custer. diag Power Pl Eng 46:96-7 O '42

Checking up on an old engine. C. W. Hope. diag Power Pl Eng 46:98-9 S '42

Checking up on an old engine. E. MacDermod. diags Power Pl Eng 46:90-1 Ag '42

D-slide valve operation. G. M. Stearns. diags Oil & Gas J 41:54 N 5 '42

Ed's engine works down but not up! indicator card from Fitchburg engine. diags Power Pl Eng 46:78 Je '42; Discussion. 46:95 Ag; 99-101 O '42

Engine will not release. diags Power 86:194-6 Mr '42; Discussion. C. B. Hudson. 86:594+ Ag '42

Finding engine speed. diag Power 86:47-9 Ja '42

Liberty ship. il diags Marine Eng 47:152-61 Ap '42

Placing a steam engine on dead center. G. M. Stearns. diags Oil & Gas J 41:53 N 5 '42

Simple steam engine principles. G. M. Stearns. diag Oil & Gas J 41:60 O 8 '42

What's wrong with this engine? diags Power 86:670-2 S '42

See also

Boilers

Condensers (steam)

Locomotives

Steam plants

Steam turbines

Steamboats

Control

Sluggish governor causes engine trouble. A. Greer. diags Power 86:201 Mr '42

Failures

Breakdowns of steam engines. il diags Locomotive 44:5-19 Ja '42

Not all saboteurs are enemy aliens. G. Holman. Power Pl Eng 46:90-2 O '42

Steam engine piston rod breaks. il Locomotive 44:114-15 O '42

History

Early engineering and iron-founding in Cornwall. R. Jenkins. Engineering 154:304-5, 325-6 O 16-23 '42; Excerpt (pt.1). Engineer 174:327-8 O 16 '42

Inventors and some inventions. H. W. Stowell. il Comp Air M 47:6863-5 O '42

Rise of the factory system in England paced by growth of the steam engine. W. H. Hillyer. Barron's 21:9-10 D 1 '41

Some grasshopper engines. R. H. Clark. il diags Engineer 173:383-6, 402-5 My 8-15 '42; Discussion. 173:430 My 22 '42

Lubrication

Save the drops. W. F. Schaphorst. Water Works & Sewerage 88:548 D '41

Sharvania atomising device for steam cylinder lubrication. il diag Engineering 152:497 D 19 '41

Steam engine lubrication; with chart estimating oil required. E. M. Sims. Power Pl Eng 45:91, 108 D '41

Manufacture

Liberty ships are driven by triple-expansion steam engines; production methods employed by Hooven, Owens, Rentschler division of General machinery corporation. T. Gilmore and J. Mulcahy. il Mach 49:144-53 N '42

Well planned materials handling in manufacture of steam steering engines; Webster-Brinkley co. il Steel 110:83-4 Mr 9 '42

Repair

Emergency repair keeps old-time engine running. A. R. Ciotti. diags Power 86:488-9 Jl '42

STEAM fitting

Change in piping corrects trouble with boiler water level. R. S. Hawley. diag Heating-Piping 14:236 Ap '42

TVA's Watts Bar steam plant augments hydro power for war production; high pressure steam piping. H. J. Petersen. il diags Heating-Piping 14:283-6 My '42

What's wrong with this heating system? why steam radiator does not heat satisfactorily. S. R. Lewis. diag Heating-Piping 14:240 Ap '42

Why a close nipple in the Hartford loop? S. R. Lewis. Heating-Piping 14:301 My '42; Discussion. 14:549-50 S '42

See also

Piping (power plants)

Steam pipes

Steam traps

STEAM flow

Flow of steam in pipes. G. M. Stearns. Oil & Gas J 41:59 O 8 '42

Pressure drop calculations for flow in pipes. J. A. Hardy and E. N. Kemler. Heat & Ven 39:43-9 Ag '42

Simple steam flow chart. W. F. Schaphorst. Pet Eng 13:38 Jl '42

Steam flow through safety valves. E. K. Falls. bibliog il diags Ohio State U, Eng Exp Sta Bul 110:1-106 '42 (pa $1)

STEAM generators. See Boilers

STEAM heaters

Buick division plant for manufacture of army plane engines; heating, ventilation, and air conditioned test cells. G. S. Whittaker. il diags Heat & Ven 39:25-9 Jl '42

Northern pump co. steam heating control system. J. E. Haines. il diag Heat & Ven 39:70-1 Ja '42

Pointers on how to conserve equipment; unit heaters. C. A. Thinn. Heat & Ven 39:55-6 Je '42

STEAM heating

Application of organic amines to steam systems to reduce or eliminate corrosion. M. E. Dreyfus. Heat & Ven 39:31-3 Je '42

Buffalo memorial auditorium. M. C. Beman. il Heat & Ven 38:15-17 D '41

Cardinal Hayes memorial high school. E. J. Benesch. il Heat & Ven 38:30-4 D '41

Check list for wartime heating economy. E. A. Tyler. Heating-Piping 14:657 N '42

Code for pressure piping; district heating piping systems. G. K. Saurwein. il Heating-Piping 14:215-17 Ap '42

Curtiss-Wright corporation plant at Port Columbus. M. A. Jensen. il diags Heat & Ven 39:101-7 Ja '42

STEAM heating—*Continued*

Douglas aircraft co. builds windowless factory at Long Beach. il Heat & Ven 38:36-40 D '41

Efficiency boosted at University of Idaho central heating plant. H. F. Gauss. il diags plan Power 86:222-5 Ap '42

Exhaust office air heats steel storage warehouse. il Heating-Piping 14:553-4 S '42

Factors influencing the heat output of radiators. A. C. Davis, W. M. Sawdon and D. Dropkin. il plans Heating-Piping 14:180-6 Mr '42

Ford's Willow Run bomber plant; heating and air conditioning. G. S. Whittaker. il Heat & Ven 39:25-33 O '42

14 boilers, thousands of miles of pipe; Naval ordnance plant, plumbing, heating and air conditioning equipment. il Dom Eng 160: 40-1 Ag '42

Gas service manual; steam heating systems. W. L. Riehl. diags Gas Age 89:25-8 F 26 '42

Gevaert company of America, photographic supply manufacturers, air conditioning system. J. J. Goovaerts. il Heat & Ven 39:66-9 Ja '42

Heating large buildings; local steam heating is generally wasteful and uneconomic. D. H. Parry. Elec R (Lond) 131:517-19 O 23 '42

High pressure heating boilers. F. D. Mosher. il diag Heat & Ven 39:38-41 Mr '42

New developments in steam and water heating systems. R. E. Ferry. In Ill U Eng Exp Sta Circ 43:100-12 '42

Piping improvements. T. W. Reynolds. Heat & Ven 39:61 S '42

Pointers on how to conserve equipment. C. A. Thinn; W. A. Schulmeister; M. F. May. Heat & Ven 39:55-7 Je '42

Radiator sizing and changes. T. W. Reynolds. Heat & Ven 39:34 Je '42

Saving fuel in heating; reference section. J. F. Collins, jr. Heat & Ven 39:36-50 Je '42

School plant reduces steam costs from 54 to 20 cents per 1000 lb. E. Wiegand. il Heat & Ven 39:35-6 S '42

Sherwin-Williams company; chemical building and warehouse. G. S. Whittaker. il Heat & Ven 39:90-3 Ja '42

Ten to thirty per cent fuel savings in four out of five jobs! E. A. Cornely. il Dom Eng 160:34-5+ Jl '42

Trucks and tanks kept rolling; army's new motor repair base; heating and ventilating system. il Heat & Ven 39:19-21 Ag '42

What's wrong with this heating system? why steam radiator does not heat satisfactorily. S. R. Lewis. diag Heating-Piping 14:240 Ap '42

See also

Boilers, Heating
Heating
Heating from central stations
Hot water heating
Radiators
Steam heaters
Steam pipes
Steam plants—By-product power
Steam plants—Combined power and heating
Steam traps

Control

Heat economy and comfort in hotels. P. L. Geiringer. Power Pl Eng 46:80-2 O '42

Heating control saves 16 per cent. Power Pl Eng 46:112 My '42

Northern pump co. steam heating control system. J. E. Haines. il diag Heat & Ven 39:70-1 Ja '42

Some practical pointers on temperature control. W. Goodman. diags Heating-Piping 14: 661-5 N '42

System and control study. J. F. Collins, jr. Heat & Ven 39:42-8 Je '42

Cost

Heating control saves 16 per cent. Power Pl Eng 46:112 My '42

Return systems

Change-over in iron; machine works makes changes in heating system. diags Dom Eng 159:55+ F '42

Corrosion of steel by dissolved carbon dioxide and oxygen. G. T. Skiaperdas and H. H. Uhlig. bibliog diag Ind & Eng Chem 34:748-54 Je '42

Heating Fort Greene houses. M. Freund. il diags plans Heat & Ven 39:17-24 F '42

STEAM hose

Care and use of rubber-covered steam hose. Oil & Gas J 41:36 O 1 '42

Rubber conservation; steam hose. Chem Ind 50:519 Ap '42

STEAM jets

Fundamental principles of the steam ejector. R. Royds and E. Johnson. diags Inst Mech Eng J & Proc 145:Proc 193-209 O '41; Discussion. 146:Proc 223-35 Mr '42

STEAM locomotives. See Locomotives

STEAM pipe coverings

Heat insulation, its relation to mill efficiency. R. C. Parlett. bibliog Paper Tr J 114:27-38 Je 4 '42

Marine pipe covering. W. W. Godwin. 142p $2 Cornell maritime press, 350 W. 23d st, New York '42

Reduce heat losses with insulation. Textile World 92:118 S '42

STEAM pipe lines

Steam traps. G. F. Brown. Engineer 174:281 O 2 '42

See also

Heating from central stations
Piping (power plants)

STEAM pipes

Piping improvements. T. W. Reynolds. Heat & Ven 39:61 S '42

Practical piping problems. W. H. Wilson. Heating-Piping 14:609 O '42

Steam and its place in making paper; piping and accessories are important. R. G. Edwards. Pulp & Pa of Can 42:777-80 D '41

Vibration in power station steam pipework. F. J. Cowlin. Inst Mech Eng J & Proc 147:Proc 69-72 My '42

See also

Heating from central stations
Pipe fittings
Piping (power plants)
Steam heating
Steam traps

Corrosion

Application of organic amines to steam systems to reduce or eliminate corrosion. M. E. Dreyfus. Heat & Ven 39:31-3 Je '42

Pipeline and boiler corrosion. F. G. Straub. Power Pl Eng 46:73 Ja '42

Failure

Water hammer action blamed for steam piping failure. il Locomotive 44:69-70 Jl '42

Tables, calculations, etc.

Faster selection of correct steam-pipe thickness; data sheets. Power 86:677, 755, 835 S-N '42

Flow of steam in pipes. G. M. Stearns. Oil & Gas J 41:59 O 8 '42

Heat loss from steam pipes. G. M. Stearns. Oil & Gas J 41:49 O 1 '42

STEAM plants

Manual of steam power and drying plant operation. R. C. Hageman. $5 J. F. Reilly, c.o. Sanitary district of Chicago, 39th st. & 52d av, Chicago '41

Modern trends in steam generation; forty years of progress. R. J. Chambers. Pulp & Pa of Can 43:610-11 Jl '42

Removable window instead of big door; steam plant of the Braintree (Mass.) municipal lighting department. il Elec W 118:786 S 5 '42

Rules for revamping small plants. A. A. Cummins and H. N. Bernard. Power Pl Eng 46:70-1 Ja; 69-71 Mr '42

See also

Boiler plants
Boilers
Electric plants
Feed water
Hydroelectric plants—Combination with steam plants
Piping (power plants)
Power plants
Steam
Steam engines
Steam turbines

STEAM plants—*Continued*

Auxiliaries

Hydraulic couplings for auxiliaries. G. V. Edmonson. diags Power Pl Eng 46:74-5 Ja '42

Novel supply scheme for turbine auxiliaries. diag Elec W 117:98 Ja 10 '42

Quick-starting steam turbine. C. H. S. Tupholme. diag Power Pl Eng 46:53-4 Je '42

Binary vapor systems

Binary-fluid cycle. W. A. Webster. Elec R (Lond) 130:487-91 Ap 17 '42

Mercury-vapor system attains reliability. H. N. Hackett. diag Power Pl Eng 46:79-80 F '42; Abstract. Power 85:973 Mid-D '41

New mercury-vapor power plant; Kearny plant. A. R. Smith and E. S. Thompson. il diags Steel 110:52-3, 84, 87-8 Ja 12 '42

Progress in engineering knowledge during 1941; power generation. P. L. Alger. bibliog diags Gen Elec R 45:94-5 F '42

By-product power

Morrell plant burns three kinds of fuel; operates in parallel with local utility company and generates only byproduct power. D. S. Helmick and E. L. Johnson. il diags Power Pl Eng 46:48-51 Ja '42

Combined heating and process steam

Steam economies are effected; keeping of records; heat for mill building and process purposes. P. L. Geiringer. il Textile World 91:84-5 D '41; 92:78-9 Ja '42

Combined power and heating

Institution benefits by generating power; with cost data. A. A. Fette. Power Pl Eng 46:88-90 N '42

Power and heat for dyeworks. C. H. S. Tupholme. Textile Col 64:177-8+ Ap '42

Putting the know-why into small-plant operation; power plant of Washington Life building, New York. il Power 86:419-21 Je '42

See also

Electric plants (central stations)—Steam distribution

Steam plants—By-product power

Combined power and process steam

Automatic control insures process-steam reliability. C. R. Earle. diag Power 86:784-5 N '42

Complete new power unit at Tama; Central fibre products company. S. Blum. il diag plan Paper Tr J 113:73-7 N 27 '41

Ingenuity puts Crawford Clothes plant on the line in four months; three-pressure-level steam plant with Diesels for heat balance. il diags Power 86:312-14 My '42

Low-pressure condensing turbine serves dual purpose. il Power 86:113-15 F '42

Mill conversion scheme; Smith & Calverley, ltd. il Elec R (Lond) 130:3-5 Ja 2 '42

Power for a single-machine paper mill; St Regis paper co. il diags Power Pl Eng 46:48-52 Je '42

Steam power then and now; forty years of progress. R. G. Edwards. Pulp & Pa of Can 43:608-10 Jl '42

Water problems in small power plants. E. P. Partridge and A. L. Soderberg. bibliog il Blast F & Steel Pl 30:664-70 Je '42

Condensate recovery

Air-cooled condenser solves feedwater problem. J. C. Albright. il Power 86:654-5 S '42

How to choose among heater drain recovery systems. I. J. Karassik and W. P. Spining. diags Power 86:226-8 Ap '42

Steam boiler protection; condensate freed from oil contamination. il Rayon 22:693 N '41

Steam traps. G. F. Brown. Engineer 174:281, 283 O 2 '42

Design

Design of an oil fired high pressure steam plant. K. Steiner. il Heating-Piping 14: 32-5, 114-16 Ja-F '42

Experience guides design of second topping unit. diags plan Power 86:704-7 O '42

Increased electric power for Cleveland. il plans Power Pl Eng 46:52-9 Mr '42

Outdoor construction reduces steam plant investment cost; semi-outdoor steam plant for the Burbank public service department. J. H. McCambridge. il plans Elec W 118: 290-3 Jl 25 '42

Parallel operation influences design of Venice No. 2. W. F. Ryan and E. H. Tenney. flow diag il plans Elec W 118:441-4 Ag 8 '42

Some features of the Harbor steam plant of the Los Angeles Bureau of power and light. W. C. Rowse. il Mech Eng 64:773-6 N '42

Watts Bar steam design simple, direct, economical. R. A. Hopkins. diags map plan Elec W 117:474-7 F 7 '42

Efficiency

Comparison of power-plant heater arrangements. M. G. J. Boissevain and A. H. Shapiro. flow diag Mech Eng 64:784-6 N '42

More power from existing equipment. diags Power 86:75-8, 167-74 F-Mr '42

More steam without more boilers. G. H. Urban. Paper Ind 24:750-2+ O '42; Abstract. il Power 86:711-13 O '42

Prevention of steam losses and fuel waste. V. G. Leach. Blast F & Steel Pl 30:550, 552+ My '42; Excerpts. Power Pl Eng 46: 105 My '42

Regenerative cycle; an efficiency basis having special reference to the number of feed water heating stages. H. S. Horsman. charts Inst Mech Eng J & Proc 146:Proc 5-19 N '41; Discussion. 147:Proc 110-24 Je '42

Steam traps. G. F. Brown. Engineer 174:281, 283 O 2 '42

What the operator wants to know. A. Iddles. Power Pl Eng 46:77-81+ N '42

Equipment

Automatic control insures process-steam reliability. C. R. Earle. diag Power 86:784-5 N '42

Burbank's modernistic design gives low cost and high efficiency. J. B. Johnson. flow diag il diag plan Power Pl Eng 45:54-9 D '41

Burlington charts the way for motor-operated valves. S. D. Barr. il Power 85:900-2 D '41

Chickasaw plant solves unusual condensing problems. E. C. Gaston. il diag plan Elec W 116:1717-19+ N 29 '41

Coal-handling systems for central stations; with cost data. G. C. Daniels. il diags Mech Eng 63:801-6 N '41; Discussion. 64:230-1 Mr '42

Conductivity cells and electrical measuring instruments. C. E. Kaufman. diags Am Soc T M Proc 41:1326-36; Discussion. 1337 '41

Conductivity meters give carry-over data. Elec W 118:316-17 Jl 25 '42

Eddy-current couplings adjust Oswego combustion; controlling air-gas flow rates of 900,000-lb.-per-hour steam generators. H. A. Piasecki. il diag Elec W 117:2050-2 Je 13 '42

For condensers; one pump or two? H. R. Mueller. Power 86:475-7 Jl '42

Heating and process steam influence Iowa extension; two-part furnace burning both pulverized coal and refuse and turbine with head-end stage in two sections. J. M. Drabelle. il diags Elec W 117:2210-13 Je 27 '42

His hobby helped the navy; A. E. Banks collection of steam equipment used in training engineers of Naval reserve. il diag Power 86:727-8 O '42

Low cost modernization sought in Moline plant expansion. E. H. Throckmorton. flow diag plan Power Pl Eng 46:54-6 Ap '42

Modern steam generator takes bigger load from tubular boilers; Centralia coal co. F. W. Richart. il diags Coal Age 47:59-61 Ag '42

Modern turbine-driven units fit variable-load pumping systems. R. Carter. flow diags il Power 86:550-2 Ag '42

Modernizing a small utility steam plant; Braintree, Mass. municipal plant. il diags Elec W 118:1256-9 O 17 '42

STEAM plants—Equipment—*Continued*

More capacity with little additional equipment; improving plant outputs by eliminating sources of combustion difficulties. J. Cassie. diags Elec W 117:1164-7 Ap 4 '42

New type of conductivity apparatus for use with boiler waters and steam samples. A. R. Mumford. il diags Am Soc T M Proc 41:1314-25; Discussion. 1337 '41

900-ft conveyor handles three coal-moving jobs. W. G. Hudson. il diag plans Power 86:243-5 Ap '42

Oswego station design pioneers new ideas. il diags Elec W 116:1878-81+ D 13 '41

Past experience guides second topping turbine installation. flow diag diags Elec W 118:1096-9 O 3 '42

Protective coatings in steam plants. A. K. Ingraham. Elec W 117:676+ F 21 '42

Secondhand juice; using equipment that's mostly old, Velasco power plant to speed output of magnesium. Business Week p32+ F 21 '42

Steam-temperature control; constancy over a wide range of turbine loading. diags Elec R (Lond) 130:615-18 My 15 '42

Taunton plant expands for war service demands; semi-outdoor steam generator and topping turbine. il Elec W News ed 117:1264-5 Ap 11 '42

Tropical plant condensing problems uniquely solved; use of ocean water for condensing and cooling. J. T. Farmer. diags plan Elec W 117:800-3 Mr 7 '42

1250-lb. Oswego tests new ideas. N. R. Gibson and H. M. Cushing. il diags map Power 86:2-6 Ja '42

Two 850-psi 900-F Watts Bar steam units serve TVA war loads. G. E. Morgan. il Power 86:478-81 Jl '42

Venice no. 2. W. F. Ryan and E. H. Tenney. flow diag il plans Power Pl Eng 46:87-93 My '42

Watts Bar steam power station of the TVA. G. R. Rich and R. T. Mathews. diags plan map Mech Eng 63:773-9 N '41; Abstract. Power 85:843-4 N '41; Discussion. G. E. Morgan. Mech Eng 64:313-14 Ap '42

What the operator wants to know. A. Iddles. il Power Pl Eng 46:60-3+ S; 70-3 O; 77-81+ N '42

See also

Boilers

Condensers (steam)

Steam engines

Steam turbines

Stokers, Mechanical

High pressure

Another advance in power generation; Twin Branch station of the Indiana and Michigan electric company. il Locomotive 44:24-6 Ja '42

Comments on the operation of high-pressure, high-capacity boilers. il Locomotive 44:98-106+ O '42

Conditioning feedwater for high-pressure boilers. A. C. Dresher. flow diag diags Power Pl Eng 46:70-2 S; 67-9 O '42

High-pressure steam; new Twin Branch (Indiana) station. S. B. Jackson. diag Elec R (Lond) 129:741-3 D 26 '41

Maintenance of high pressure boilers. F. D. Mosher. il diag Heat & Ven 39:30-2 S '42

Operation and maintenance of high-pressure boilers. F. D. Mosher. il diags Paper Ind 24:156-9 My '42

Oswego station design pioneers new ideas. il diags Elec W 116:1878-81+ D 13 '41

1250-lb. Oswego tests new ideas. N. R. Gibson and H. M. Cushing. il diags map Power 86:2-6 Ja '42; Discussion. Elec W 116:1876 D 13 '41

See also

Steam plants—Superposition

Layout

Power-station sites; effect on boiler lay-out. V. Smith. diags Elec R (Lond) 131:73-5 Jl 17 '42

Maintenance and repair

Inspection programs for steam plants. J. MacEwell. Elec West 88:88-9; Discussion. 89 Je '42

Maintenance of steam power for war loads. il Elec W 118:1421-39 O 31 '42

Management

Continuous running won't harm turbines. C. B. Campbell. il Power 86:781-3 N '42

Coordination of unit overhaul periods. P. Sporn. il Elec W 118:1422-7 O 31 '42

More steam; how? A. Iddles. il Elec W 117:1690, 2082, 2250; 118:168, 312+, 476+, 638, 808-9, 958, 1122, 1300+, 1470, 1638+, 1816+, 1983-4, 2136+; 119:96 My 16, Je 13 '42-Ja 9 '43

Save steam to boost boiler capacity. L. N. Rowley. il diag Power 86:571-4 Ag '42

Process steam

Bled steam for chemical processing; importance of economic engine design. H. Seymour. Chem Age (Lond) 46:111-12 F 28 '42

Design of an oil fired high pressure steam plant. K. Steiner. il Heating-Piping 14:32-5, 114-16 Ja-F '42

Meat packing plant; boiler capacity and feed water problems. Power Pl Eng 46:107 Jl '42; Solutions. diag 46:101-2+ S '42

New steam plant at Riverbend; Price brothers & company. J. Foster and V. Foyle. il Pulp & Pa of Can 43:503-8 Je '42

Purifying steam for process work. C. H. S. Tupholme. Am Dyestuff Rep 31:167-9 Mr 30 '42

Saving steam in finishing. P. L. Geiringer. Textile World 92:84-5 Mr '42

Separated boilers improve operation. F. MacDermod. diag Power 86:407 Je '42

Steam requirements of process equipment; data sheet. Heating-Piping 14:675-6 N '42

Turbo-generator installation in a brewery. il diags plan Engineer 173:201-4 Mr 6 '42

See also Steam plants—Combined power and process steam

Records

Chart records soot blower troubles at Spy Run plant. diag Elec W 118:1447 O 31 '42

Plant records are key to maintenance scheduling. Elec W 118:1436-9 O 31 '42

Steam economies are effected; keeping of records. P. L. Geiringer. il Textile World 91:84-5 D '41

Superposition

Experience guides design of second topping unit. diags plan Power 86:704-7 O '42

Governing turbine pressures. R. Sheppard. diags Power 86:32-4, 155-7 F-Mr '42

Low cost modernization sought in Moline plant expansion. E. H. Throckmorton. flow diag plan Power Pl Eng 46:54-6 Ap '42

Past experience guides second topping turbine installation. flow diag diags Elec W 118:1096-9 O 3 '42

Taunton plant expands for war service demands; semi-outdoor steam generator and topping turbine. il Elec W News ed 117:1264-5 Ap 11 '42

What the operator wants to know. A. Iddles. Power Pl Eng 46:77-81+ N '42

Tables, calculations, etc.

Regenerative cycle; an efficiency basis having special reference to the number of feed water heating stages. H. S. Horsman. charts Inst Mech Eng J & Proc 146:Proc 5-19 N '41; Discussion. 147:Proc 110-24 Je '42

STEAM reheaters

1200-pound reheat installation for the Examiner. B. Fox and R. H. Tingey. diags plans Marine Eng 46:67-75; Discussion. 112+ D '41

STEAM sampling

Degasification of steam samples for conductivity tests. P. B. Place. diags Am Soc T M Proc 41:1302-12; Discussion. 1313 '41

Sampling of steam and boiler water; corrosion resistant metals in sampling equipment. A. R. Belyea and A. H. Moody. Am Soc T M Proc 41:1264-73; Discussion. il 1274-6 '41

STEAM separators

Steam separator. W. F. Schaphorst. diag Chem Ind 51:558 O '42

STEAM traps

Bottom vents for vertical retorts. O. F. Ecklund and H. A. Benjamin. diags Food Ind 14:40-2+ Mr '42

Choosing a trap for paper mill service. F. L. Wellcome. il Paper Ind 23:901-2 D '41

Laboratory steam trap. S. H. Tucker. diags Chem & Ind 61:194 Ap 25 '42

Practical piping problems. W. H. Wilson. Heating-Piping 14:609 O '42

Recommends test valves in trap discharge lines. E. MacDermod. diag Power 86:425 Je '42

Steam traps. G. F. Brown. Engineer 174:281, 283 O 2 '42

STEAM turbines

Continuous running won't harm turbines. C. B. Campbell. il Power 86:781-3 N '42

DeLaval velocity-stage turbines. il Mech Eng 64:sup31 Jl '42; Same. Blast F & Steel Pl 30:796-7 Jl '42; Same cond. Water & Sewage 80:36 S '42

Drives for refrigerating plants. L. Macrow. il Power Pl Eng 46:66-7 S '42

Electrical developments of 1941; power generation. G. Bartlett. il diags Gen Elec R 45:8-11 Ja '42

Low-pressure condensing turbine serves dual purpose. il Power 86:113-15 F '42

Maintenance can prevent steam turbine accidents. T. W. Howard. il Power Pl Eng 46:75-7 O '42

Modern turbine-driven units fit variable-load pumping systems. R. Carter. flow diags il Power 86:550-2 Ag '42

Past experience guides second topping turbine installation. flow diag diags Elec W 118:1096-9 O 3 '42

Power-plant problems; summary of discussion of ten questions by A.S.M.E. power division. Mech Eng 64:669-72 S '42

Progress in engineering knowledge during 1941; power generation. P. L. Alger. bibliog diags Gen Elec R 45:94-5 F '42

Symposium on problems and practice in determining steam purity by conductivity methods. R. E. Hall and others. il diags Am Soc T M Proc 41:1261-1336 '41

Take a good look at secondhand turbines; have it inspected by expert and get manufacturer's data. G. Gregg. il Power 86:579-80 Ag '42

Turbine gear sets for paper machine drive. A. J. Churchill. il Paper Ind 24:370-1 Jl '42

Turbine sealing glands. J. D. Schmidt. il diags Power Pl Eng 46:86-7 F '42

Turbo-generator installation in a brewery. il diags plan Engineer 173:201-4 Mr 6 '42

Utilities to get 82% of 1942 turbine production. Elec W News ed 117:153 Ja 17 '42

What will 1943 turbines be like? sizes and types. F. K. Fischer and J. R. Carlson. diags Power 86:178-9 Mr '42

Blades

Critical problems in the boiler feed water field; turbine blade deposits. M. C. Schwartz. Am Water Works Assn J 34:1216-20 Ag '42

Effect of nozzle and bucket deposits on turbine capacity and efficiency. B. O. Buckland. il diag Gen Elec R 45:123-9 F '42; Excerpts. Power Pl Eng 46:78-80 Ap '42

Turbine shell pressures, capacity and efficiency; effect of nozzle and bucket deposits. B. O. Buckland. il Power Pl Eng 46:52-6 S '42

Wartime power problems; round-table session at ASME semi-annual meeting; blade deposits. diags Power 86:473+ Jl '42

Wind-tunnel experiments on model reaction turbine blades. M. R. Youssef. diags Engineering 153:138-40 F 13 '42; Discussion. R. Dowson. 153:255 Mr 27 '42

X-ray fingerprints scale deposits. C. E. Imhoff and L. A. Burkardt. il Power 86:10-12 Ja '42

Control

Control and regulation of utility-industrial ties. L. F. Stone. diags Elec W 117:1171-3 Ap 4 '42

Governing turbine pressures. R. Sheppard. diags Power 86:82-4, 155-7 F-Mr '42

Motor-turning gear for small turbines. Elec W 117:316 Ja 24 '42

Quick-starting steam turbine. C. H. S. Tupholme. diag Power Pl Eng 46:53-4 Je '42

Some problems connected with steam turbine governing. G. W. Higgs-Walker. diags Inst Mech Eng J & Proc 146:Proc 117-25 Ja '42; Discussion. 148:Proc 26-32 N '42

Supplementary control of prime-mover speed governors. S. B. Crary and J. B. McClure. bibliog Elec Eng 61:Trans 209-14 Ap '42

Which governor suits your turbine load? F. K. Fischer and O. N. Bryant. il diags Power 86:231-3 Ap '42

Design

Generalization of Kirchhoff's theory of transversal plate vibrations in the vibration problem of steam turbine disks. I. Malkin. bibliog diags Franklin Inst J 234:355-69, 431-52 O-N '42

Heating and process steam influence Iowa extension. J. M. Drabelle. il diags Elec W 117:2210-13 Je 27 '42

History and development of the radial-flow steam turbine. P. S. Wakefield. diags Inst E E J 89 pt 1:147-51 Mr '42

Influence of critical speed on shaft design and operation. H. Engvall. il diags Power 86:164-5 Mr '42

Streamlined; inside and out. il diag Power 86:183-4 Mr '42

Efficiency

Effect of nozzle and bucket deposits on turbine capacity and efficiency. B. O. Buckland. il diag Gen Elec R 45:123-9 F '42

Indexes that point to turbine overhaul. E. E. Harris and G. B. Warren. Elec W 118:1431-5 O 31 '42

Turbine shell pressures, capacity and efficiency; effect of nozzle and bucket deposits. B. O. Buckland. il Power Pl Eng 46:52-6 S '42

Extraction

Comparison of power-plant heater arrangements. M. G. J. Boissevain and A. H. Shapiro. flow diag Mech Eng 64:784-6 N '42

Draining turbine extraction piping. S. H. Coleman. diag Power Pl Eng 46:91-2 Ag '42

Piping increased turbine backpressure. C. R. Anderson. Power 86:270-1 Ap '42

Safeguard for turbines when the vacuum fails. S. H. Coleman. Power Pl Eng 46:74 Je '42

Failure

Breaking of turbine blades causes large loss. il Locomotive 44:43-4 Ap '42

Efforts to prevent runaway unsuccessful; turbo-generator wrecked. il Locomotive 44:112-13 O '42

Lubrication

New A.S.T.M. test for rust-preventing characteristics of turbine oils. Nat Pet N 34 pt2: R216, R218 Jl 29 '42

Reconstruction

Power for a single-machine paper mill; St Regis paper co.; non-condensing turbine rebuilt into extraction-condensing unit. il diags Power Pl Eng 46:48-50 Je '42

Repair

Big turbine requires only minor overhaul; turbine at Richmond station. W. F. Oberhuber. il Elec W 116:1554-5 N 15 '41

Rebuilt shaft on turbine. E. T. Parkinson. il Power 86:731-2 O '42

Tables, calculations, etc.

Some problems connected with steam turbine governing. G. W. Higgs-Walker. diags Inst Mech Eng J & Proc 146:Proc 117-25 Ja '42; Discussion. 148:Proc 26-32 N '42

STEAM turbines—*Continued*

Testing

Indexes that point to turbine overhaul. E. E. Harris and G. B. Warren. Elec W 118:1431-5 O 31 '42
Instrument aids for turbine operation. H. C. Werner and G. V. Krenikoff. il diags Power Pl Eng 46:84-7 N '42
Testing keeps turbines fit. W. W. Johnson. il Power 86:396-7 My '42

Vibration

Disk vibration in turbine wheels. F. G. Hensel. il Power Pl Eng 46:62-3 Mr '42
Generalization of Kirchhoff's theory of transversal plate vibrations in the vibration problem of steam turbine disks. I. Malkin. bibliog diags Franklin Inst J 234:355-69, 431-52 O-N '42

STEAM turbines, Marine

Engineers wanted, for fast geared-turbine cargo ships. il Power 86:557-9 Ag '42
Keep 'em sailing; ship propulsion equipment manufacture; illustrations with text. Power Pl Eng 46:68-9 S '42
Progress in marine turbine construction. diags Marine Eng 46:168 N '41
Propelling machinery of cross-Channel packets. W. Gregson. diags plans Inst Mech Eng J & Proc 147:Proc 156-64, pl 4-5 S '42; Same. Engineering 153:258-60 Mr 27 '42; Same cond. Engineer 173:113-15 F 6 '42
Sir Charles Parsons and the Royal navy. S. Goodall. diags Engineer 173:261-3, 281-2 Mr 27-Ap 3 '42
1200-pound reheat installation for the Examiner. B. Fox and R. H. Tingey. diags plans Marine Eng 46:67-75; Discussion. 112+ D '41

Control

Control of marine turbines. J. A. Davies. diags Marine Eng 47:110-12 My '42
Why speed-govern marine turbines? F. H. VanNest. Marine Eng 47:140, 142 Jl '42

Gearing

Sir Charles Parsons and mechanical gearing. S. F. Dorey. il Engineering 154:277-8, 297-8, 377-80 O 2-9, N 6 '42; Same cond, with diags. Engineer 174:238-41, 261-3 S 18-25 '42

Manufacture

Building turbines for ships in our permanent merchant fleet; Merchant marine division, Westinghouse electric & mfg. co. E. L. Spray. il Mach 49:172-9 N '42 (to be cont)
Making ship pushers; ship propulsion sets of both the geared-turbine and the turbine-electric types produced at General Electric. E. K. Henley. il Steel 110:84-6 My 11 '42
New turbine plants begin production; Westinghouse and General Electric. Steel 110:55 Je 1 '42
Production speeded for turbine blades; Westinghouse South Philadelphia plant. il Marine Eng 47:244 O '42

STEAM water heaters

Converts horizontal return tubular boilers to water heaters. diags Power 86:185 Mr '42

STEAMBOAT lines

Steamship company told it can't control airline; Civil aeronautics board disapproves American export lines. Civil Aero J 3:168+ S 15 '42

See also
Merchant marine—United States
Safety at sea
also Peninsular and Oriental steam navigation company

Employees

Finding jobs for workers when war stops business; Colonial line. Am Business 12:31 My '42

STEAMBOATS

African Comet, passenger liner. il diags plans Marine Eng 47:112-24+ Ja '42
Agwimonte, C-1-B cargo ship. il diag Marine Eng 46:131+ N '41
Alcoa Pathfinder, cargo ship. il Marine Eng 46:106+ N '41
America's Liberty ships built to deliver cargoes for war. il diags Product Eng 13:488-92 S '42
British wartime cargo ships. plans Marine Eng 47:125-7 Mr '42
Empire Liberty; British prototype of the Liberty ship. il diags plans Marine Eng 47:168-71 Ap '42
Engineers wanted, for fast geared-turbine cargo ships. il Power 86:557-9 Ag '42
Examiner, high-pressure steamship. il plans Marine Eng 46:128-9 N '41
Exceller, Export line freighter. il diag plans Marine Eng 46:120-1 N '41
From stationary steam to marine engineer. F. V. Smith. il Power 86:737-9 O '42
Hawaiian Merchant. il Marine Eng 46:135+ N '41
Hawaiian Planter. il diag Marine Eng 46:112-13+ N '41
Historic accidents and disasters; the Princess Alice. il Engineer 174:206-8 S 11 '42
John Lykes, C-1 cargo ship. il Marine Eng 46:142-3+ N '41
Liberty ship. il diags Marine Eng 47:146-53 Ap '42
Machinery of mass-produced cargo vessels. Engineering 154:176 Ag 28 '42
Machinery weights; data for estimating weights of ship machinery. E. A. Stevens, jr. Marine Eng 47:134-7 Ag; 156-9 S; 143-5 N; 167-8 D '42 (to be cont)
Marina, Bull line cargo ship. il diag Marine Eng 46:123+ N '41
Mormactide, C-3 cargo ship. il Marine Eng 46:130+ N '41
Mormacyork, C-3 cargo ship. il Marine Eng 46:110+ N '41
Ore carriers launched at Lakes yards. il Marine Eng 47:124-6 My '42
Pan Rhode Island, oil tanker. il diag Marine Eng 46:111+ N '41
Pocahontas, Virginia ferry steamer. il Marine Eng 46:115+ N '41
Power equipment of the ore carrying steamer Leon Fraser. Blast F & Steel Pl 30:449-50 Ap '42
Propelling machinery of cross-Channel packets. W. Gregson. bibliog il diags plans map Inst Mech Eng J & Proc 147:Proc 147-84, pl 1-20 S '42; Same. Engineering 153:156-9, 258-60, 318-20, 338-40, 358-9, 390, 397-400 F 20, Mr 27, Ap 17-My 1, 15 '42; Same cond. Engineer 173:92-5, 113-15, 134-6, 154-6 Ja 30-F 20 '42
Robin Locksley. il diag Marine Eng 46:104-5+ N '41
Santa Elisa, Grace cargo ship. il Marine Eng 46:132-3+ N '41
Sinclair H-C, new Sinclair refining company tanker. il plans Marine Eng 47:106-13 Mr '42
1200-pound reheat installation for the Examiner. B. Fox and R. H. Tingey. diags plans Marine Eng 46:67-75; Discussion. 112+ D '41
Who will man the Liberty ships? description of power equipment; increasing demand for skilled, experienced engineers. il diags Power 86:460-3 Jl '42

See also
Boilers, Marine
Freight ships
Naval architecture
Ship propulsion
Shipbuilding
Shipping
Ships
Steam turbines, Marine
Towboats
Warships

Funnels

Funnels; stainless steel saves over four tons per stack. Sci Am 166:286-7 Je '42

History

Before Fulton. W. M. Angas. il Tech R 44:169-71, 186, 188+ F '42
Steamboat round the bend; vessels that plied eastern rivers and sounds as the United States grew up. W. M. Angas. il Tech R 45:25-7+ N '42 (to be cont)

STEARAMIDE

Tertiary base textile softeners. A. J. Hall. Textile Col 64:224-6 My '42

STEARATES

Metallic stearates; a review of properties and uses. A. Monsaroff. bibliog Can Chem & Process Ind 26:193-6 Ap '42; Abstract. Chem Age (Lond) 47:88-90 Jl 25 '42

STEARIC acid

Oxidation of hydroxyketostearic acids in presence of alcoholic alkali. T. P. Hilditch and H. Plimmer. Chem Soc J p204-6 Mr '42

Viscometric estimation of particle dimensions; the system stearic acid-carbon tetrachloride. J. P. Hollihan and D. R. Briggs. bibliog J Phys Chem 46:685-93 Je '42

See also

Dihydroxystearic acid

Trihydroxystearic acid

STEATITE. See Talc

STEEL

American shaves; domestic steel has taken over a Swedish job. Business Week p19-20+ Mr 21 '42

Artillery cartridge cases made from steel. H. R. Turner. il Iron Age 149:54-5 Mr 19 '42

Corrosion of steel by dissolved carbon dioxide and oxygen. G. T. Skaperdas and H. H. Uhlig. bibliog diag Ind & Eng Chem 34:748-54 Je '42

Cost of increased production measured in terms of steel. L. C. Converse. Oil & Gas J 40:46+ F 19 '42

Critical alloy shortage to force wider utilization of carbon steels. Steel 111:54-5 Jl 13 '42

Data on Swedish, U.S. spring steels. H. Carlson. Product Eng 13:602 O '42

Effect of machining and aging on the damping capacity of steel. L. Tarnopol and J. R. Morgan. J Ap Phys 13:343-4 My '42

Electrolytic behavior of ferrous and non-ferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42

Five hundred hear discussion of emergency steels at Chicago conference. Steel 111:41 Ag 17 '42

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:49 Je 22; 42 Je 29; 61 Jl 6 '42

Joining brass to steel. J. S. Graham, jr. il Welding J 20:783 N '41

Malleablized steel; casting material now trade-named ArmaSteel. Product Eng 13:471 Ag '42

Metal saving with insulation. Sheet Metal Worker 33:31 Je '42

Modern steels; manufacture, inspection, treatment and uses. E. E. Thum, ed. 374p $3.50 Am. soc. for metals, Cleveland '39

Portable drilling and servicing units and steel conservation. J. Moon. il Pet Eng 13:42, 44, 46 My '42

Press-forge joining aluminum and steel. il Iron Age 150:62A-62B Jl 30 '42

Railroad estimates of 1942 steel needs. Ry Mech Eng 116:84 F '42

Railroads allocated 900,530 tons of steel for maintenance. Steel 110:47 F 9 '42

Redesigns of simple steels. diags Product Eng 13:184-5 Ap '42

Roads await action on steel for track. Ry Age 112:303-4 Ja 31 '42

Shells of steel? substitution for copper. Business Week p14 N 22 '41

Silver plating steel over a phosphate coating. P. J. LoPresti. il Metal Finishing 40:533-6 O '42

Soft steel for plastic molds. H. C. Disston and J. K. Desmond. il Metal Prog 41:512-14 Ap '42

Sorting high- and low-carbon steel parts. R. H. Grace. Metals & Alloys 15:833-4 My '42

Spring steels. H. Carlson. il Product Eng 13:405-6 Jl '42

Steel cartridge cases for field artillery. Metal Prog 41:59-60 Ja '42

Steel for planes; aluminum replacement in all noncombat aircraft. Business Week p65-6 Ap 4 '42

Steels and irons. Metal Prog 42:525-86 O '42

Steels for plastic molding. J. Delmonte and W. Renwick. il diags Iron Age 149:52-5 My 28 '42

Suggestions for the saving of steel for the national effort. Oil & Gas J 40:146+ Ap 30 '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

WPB ban on iron and steel in 400 products to accelerate conversions. Steel 110:59-60 My 11 '42

What about steel? the crisis moves from production to scrap to making the best use of what we have. il Fortune 26:86-91+ O '42

See also

Annealing

Bessemer process

Case hardening

Chromium nickel steel

Chromium steel

Concrete, Reinforced

Corrosion and anticorrosives

Electrolytic corrosion

Foundry practice

Freight cars, Steel

Iron

Magnetism

Manganese steel

Martensite

Molybdenum steel

Nickel steel

Open hearth process

Pipes, Steel

Rails

Rolling (metal work)

Rolling mills

Sheet steel

Silicon steel

Springs (mechanism)

Steel, Aircraft

Steel, Automobile

Steel, Cold working of

Steel, Corrosion resisting

Steel, Hardening of

Steel, Heat resisting

Steel, Heat treatment of

Steel, Reinforcing

Steel, Stainless

Steel, Structural

Steel alloys

Steel castings

Steel construction

Steel forgings

Steel houses

Steel ingots

Steel metallurgy

Steel plates

Steel works

Tool steel

Tubes, Steel

Aging

Age softening of 37-millimeter cores baffles experts. Steel 109:47 N 24 '41

Aging of tools and gages. R. B. Seger. Metals & Alloys 15:278 F '42

Work-hardening and ageing of steel. J. H. Andrew and H. Lee. bibliog Iron & Steel Inst J 145:153-90, pl 21-2 no 1 '42; Excerpts. Elec R (Lond) 130:593-4 My 8 '42; Engineering 153:395 My 15 '42; Discussion. Iron & Steel Inst J 145:191-211 no 1 '42; Engineering 153:395 My 15 '42

Aluminum content

Conservation of aluminum; abstract. F. C. Swartz. Iron Age 149:53 Ap 23 '42

Analysis

Application of spectrographic methods to the analysis of segregates. F. G. Parker, J. Convey and J. H. Oldfield. Iron & Steel Inst J 144:183-93, pl 18-20 no 2 '41; Summary. Steel 109:81 D 22 '41; Discussion. Iron & Steel Inst J 144:194-201 no 2 '41; Steel 109:81 D 22 '41

Application of the spectrograph in steel plants. C. C. Nitchie. il Steel 111:82-4+ N 9 '42

Carbon-in-steel determination apparatus. diag Engineer 174:100 Jl 31 '42

Chemical analysis of ferrous alloys and foundry materials; modern practice and theory. E. C. Pigott. 362p bibliog(p343-4) 28s Chapman & Hall, London '42

Colorimetry in metallurgical analysis. R. W. Silverthorn and J. A. Curtis. il Metals & Alloys 15:245-8 F '42

Detecting phosphorus in steel using the radioactive isotope. Chem Age (Lond) 46:184 Ap 4 '42

Determination of carbon in low-carbon iron and steel; low-pressure combustion method. L. A. Wooten and W. G. Guldner. bibliog diags Ind & Eng Chem Anal ed 14:835-8 O 15 '42

STEEL—Analysis—*Continued*

Determination of combined nitrogen in steel; a rapid method. H. F. Beeghly. bibliog il diag Ind & Eng Chem Anal ed 14:137-40 F 15 '42

Determination of copper and nickel in steels; determination of copper by electrodeposition and nickel by cyanide titration. L. Silverman, W. Goodman and D. Walter. Ind & Eng Chem Anal ed 14:236-7 Mr 15 '42

Determination of oxygen, nitrogen and hydrogen in steel; a survey of the vacuum fusion method, with a note on the solid solubility of oxygen in high-purity iron. H. A. Sloman. bibliog Iron & Steel Inst J 143:298-312, pl 48 no 1 '41

Examination of a high-sulphur free-cutting steel ingot. E. Gregory; J. H. Whiteley. bibliog Iron & Steel Inst J 144:9-32, pl 1-8 no 2 '41; Excerpts. Blast F & Steel Pl 29:1017-22 S '41; Abstract. Metal Prog 40:818+ N '41; Discussion. Iron & Steel Inst J 144:33-48, pl 8a no 2 '41

General Electric equips new steel foundry laboratory. Blast F & Steel Pl 29:1201 D '41

How to identify alloy steel scrap; possibilities and limitations of spark testing. L. P. Tarasov. bibliog il Iron Age 149:39-43 Ap 16 '42

Hydrogen determinations in steel; abstract. S. V. Hofsten and others. Iron Age 148:72 D 18 '41

Magnetic methods for determining carbon in steel. B. A. Rogers, K. Wentzel and J. P. Riott. bibliog il diags Am Soc for Metals Trans 29:969-84; Discussion. 984-6 D '41

Method for making a direct determination of combined carbon in cast iron and steel; abstract. J. G. Donaldson. Iron Age 149:61 Ap 30 '42

New method for the rapid determination of carbon in samples of plain carbon open-hearth steel. B. A. Rogers, K. Wentzel and J. P. Riott. pl diag In U S Bur Mines Bul 425:345-53 '41

New steel foundry laboratory speeds analyses; General electric co. il Foundry 70:108 S '42

Ozone as an analytical reagent; recommended procedure for determining manganese in steel and iron ore; determination of vanadium in steels. H. H. Willard and L. L. Merritt, jr. Ind & Eng Chem Anal ed 14:487-8 Je 15 '42

Qualitative test for molybdenum. Iron Age 150:37 Jl 23 '42

Rapid detection of nickel in alloy steel. T. H. Williams. bibliog Ind & Eng Chem Anal ed 14:72-3 Ja 15 '42

Rapid nickel tests speed metal segregation. B. McCamant. Iron Age 150:60 Ag 20 '42

Rapid steel analysis; technique employed in the new G-E steel foundry laboratory. A. C. Titus. il Iron Age 149:56-8 Ap 9 '42

Routine colorimetric determination of titanium in chromium steels; separation of titanium and chromium by perchloric acid. L. Silverman. Ind & Eng Chem Anal ed 14:791-2 O 15 '42

Shortcuts for determining sulphur and molybdenum in alloy steels. E. R. Vance. il Steel 111:56+ Ag 31 '42

Spectrograph use growing; instrumentation to speed analytical work; Open hearth conference. Iron Age 149:51-2 Ap 23 '42

Spot test for moly steel. R. Townsend. Metal Prog 42:234 Ag '42

Standard methods of analysis for steels; report of subcommittee of joint committee on heterogeneity of steel ingots. Engineering 153:365 My 8 '42

Third report of the oxygen sub-committee of the committee on the heterogeneity of steel ingots. bibliog diags Iron & Steel Inst J 143:295-387, pl 48-9 no 1 '41; Summary. Engineering 151:415-16 My 23 '41; Discussion. Iron & Steel Inst J 143:388-99 no 1 '41

Use of the spectrograph as an aid in improving open hearth practice. J. A. Sample. Blast F & Steel Pl 30:875-6 Ag '42

Bibliography

Review of iron and steel literature for 1941. E. H. McClelland. Blast F & Steel Pl 30:89-91, 94, 98+ Ja '42

Steel and the steel industry: a selected list of recent references. A. L. Baden, comp. 64p U.S. Lib. of Congress, Division of bibliography, Washington '42

Survey of literature on the manufacture and properties of iron and steel, and kindred subjects. Iron & Steel Inst J 143:1A-241A no 1 '41; 144:1A-238A no 2 '41

Brittleness

Brittleness in high-chromium steels. Engineer 172:sup[Metallurgist] 43-6 D 26 '41; Abstract. Metal Prog 42:860+ N '42

Columbium a decreaser of temper brittleness. S. T. Kishkin. Iron Age 150:67 O 1 '42

Fish-eyes in steel welds caused by hydrogen. C. A. Zapffe. il Metal Prog 42:201-6 Ag '42

Heavy forgings of copper steel. M. L. Faure and M. Friart. Metal Prog 42:456+ S '42

Hydrogen embrittlement produced by commercial cleaning and plating solutions. H. J. Noble. il Iron Age 148:45-52 N 27 '41; Same. Metal Finishing 40:121-7+ Mr '42

Influence of tin on alloy steels. G. R. Bolsover and S. Barraclough. Metal Prog 42:214-15 Ag '42

Intercrystalline cracking of boiler steel and its prevention. W. C. Schroeder and A. A. Berk. il diags U S Bur Mines Bul 443:1-85; pa 15c Supt. of doc. '41; Abstract. Power 86:575-7 Ag '42

N-A-X 9115 high-tensile steel; brittle as-welded structure tempered by brief post heat; abstract. W. F. Hess and C. R. Schroder. Iron Age 150:47-8 O 22 '42

Study of the embrittling effect of zinc upon stainless steel; effect of tobin bronze. O. H. Henry and R. W. Schroeder. il diag Welding J 21:sup287-90 Je '42

Case hardening

See Case hardening

Cleaning

Cleaning, an important welding operation. H. Lawrence. diags Steel 110:80-1 Je 29 '42

Cleaning pipe inside and out. il Metals & Alloys 16:270 Ag '42

Electrolytic cleaning of cold rolled steel; abstract. E. H. Lyons, jr. Chem & Met Eng 49:168+ F '42

Flame descaling minimizes surfacing time and costs. E. W. Deck. il Steel 110:81, 84 Je 1; 86, 88+ Je 8 '42

Flame priming for inspecting or cleaning corroded steel. W. L. Nelson. il Oil & Gas J 41:65 My 28 '42

Hydrogen embrittlement produced by commercial cleaning and plating solutions. H. J. Noble. il Iron Age 148:45-52 N 27 41; Same. Metal Finishing 40:121-7+ Mr '42

Metal pickling with ferric sulfate. J. O. Percival, C. P. Dyer and M. H. Taylor. bibliog il Ind & Eng Chem 33:1529-35 D '41

New lead coating researches which have reached commercial stage. il Steel 111:47-8 O 19 '42

Pipe dream that came true; cleaning steel pipe. il Blast F & Steel Pl 30:1025-6 S '42

Preparation of steel surfaces. S. R. J. Davison. Engineering 153:27-8 Ja 9 '42

Removes scale but no metal; Bullard-Dunn process. T. H. Wilber. Metal Prog 42:778 O '42

Removing heat-treat scale. il Steel 111:64+ S 28 '42

Semicontinuous pickler for cleaning 24-inch strip. il Steel 109:66-7 D 29 '41

Sulphuric acid pickling of steel. O. G. Pamely-Evans. il Blast F & Steel Pl 30:224-6 F '42

Tests show effectiveness of flame cleaning structural steel. E. A. Tice. il Steel 110:64, 67-8 F 9 '42

Color

How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42

STEEL—Color—*Continued*

Jetal process for producing a black oxide coating on ferrous metals. E. A. Parker and A. K. Graham. il Metal Finishing 40: insert sup6a-6d Je '42

Conservation

Cement for steel; conserving vital metal in nation's huge military and industrial construction program. Business Week p58+ Ap 11 '42

Closures and the bottleneck. il Mod Packaging 16:37-52 S '42

Concrete frames designed to save steel. J. J. Polivka. diags Eng N 128:981-4 Je 18 '42

Conservation of critical materials in construction. J. H. Ehlers. il Civil Eng 12:374-7 Jl '42

Economics of metal use; low carbon alloy steels for casehardening. F. E. McCleary. Metal Prog 40:881-3 D '41

Expansion of glass package use can save 357,000 tons of steel. Cer Ind 39:39 Ag '42

Lean-alloy steel; new combinations to save scarce metals. Business Week p78-9+ Je 27 '42

Little de-enameling ingenuity will save a lot of steel. G. Dyer. il Cer Ind 39:60+ Ag '42

Recommendations on conservation of steel. Civil Eng 12:119-20 F '42

Saving steel by substituting concrete. H. Cross. il diag Civil Eng 12:365-7 Jl '42

Saving steel in concrete. C. M. Siquot. Eng N 129:9 Jl 2 '42

Saving steel in factory design; use of concrete cuts need for critical material. diags Am Bld 64:60+ Je '42

Tankage juggled, vessels converted, to conserve steel in wartime plant. W. F. Court. Nat Pet N 34 pt 2:R351 O 28 '42

Tubing saves steel in long trusses. H. S. Card. diags Eng N 129:37-9 Jl 2 '42

Use cast iron pipe flanges to break forged steel bottleneck. G. W. Hauck. Heating-Piping 14:615-16 O '42

WPB concrete specifications established for steel saving. Eng N 129:463 O 8 '42

Copper content

Copper-bearing steel for heavy fabrication. F. Eberle. il Metals & Alloys 15:588-94, 758-62 Ap-My '42

Heavy forgings of copper steel. M. L. Faure and M. Friart. Metal Prog 42:456+ S '42

Decarburization

Cast iron borings for steel surface protection. D. L. Ellis and J. F. Oesterle. il Iron Age 150:45-9 Jl 30 '42

Defects

Copper-bearing steel for heavy fabrication; avoid surface cracking. F. Eberle. il Metals & Alloys 15:588-94, 758-62 Ap-My '42

Fish-eyes in steel welds caused by hydrogen. C. A. Zapffe. il Metal Prog 42:201-6 Ag '42

Folding cracks on rolling steel; abstract. A. Pomp and W. Lueg. Iron Age 149:65 Mr 12 '42

Influence of hydrogen content, permeability and solubility on flake formation in steel; abstract. H. Bennek and G. Klotzbach. Metals & Alloys 15:312+ F '42

Residual method of magnaflux testing. M. L. Mages. il Aviation 41:118-20+ Ag '42

Steel and the engineer. il Automobile Eng Extra no 31:374-8 N 6 '41

Steelmakers' viewpoint; complaints and their origins. D. Taylor. il Automobile Eng 32: 230-4 Je '42

Temperature and manner of growth of shatter cracks in steel rails. H. B. Wishart, E. P. Epler and R. E. Cramer. bibliog il Am Soc for Metals Trans 30:592-601; Discussion. 601-6 S '42

See also
Steel—Hydrogen effect

Deoxidation

Conservation of aluminum; abstract. F. C. Swartz. Iron Age 149:53 Ap 23 '42

Effects of eight complex deoxidizers on some 0.40 per cent carbon forging steels; abstract. G. F. Comstock. Metals & Alloys 15: 292+ F '42

Manufacture of high-quality, low-cost steel; deoxidation. P. J. McKimm. il Steel 110: 76, 78+ Mr 9 '42

Structure and rate of formation of pearlite. R. F. Mehl. il Am Soc for Metals Trans 29:858-60 D '41; Same cond. Metal Prog 40:765 N '41

Titanium deoxidized steel shows good sulphide distribution. G. F. Comstock. il Foundry 70:135-6, 204-5 Ap '42

Desulfurization

See Steel—Sulfur content

Failure

Crack sensitivity of welded aircraft steel. J. G. Ball. Metal Prog 41:213+ F '42

Crankshaft failures; investigations in research department of Institution of automobile engineers. C. G. Williams and J. S. Brown. il diags Automobile Eng 31:401-5 N '41

Drill-pipe and tool-joint troubles; their causes and prevention. R. S. Grant and H. G. Texter. il Oil & Gas J 40:50, 53-4, 57-8 N 13 '41

Intercrystalline cracking of boiler steel and its prevention. W. C. Schroeder and A. A. Berk. il diags U S Bur Mines Bul 443:1-85; pa 15c Supt. of doc. '41

Metallurgical mysteries; faulty heat treatment causes steel failure. R. C. Stewart. il Metal Prog 41:655-6 My '42

Method of defining failure in members subjected to combined stresses. J. Marin. bibliog Am Soc for Metals Trans 29:1013-21 D '41

Mining haulage gear; study of failures; report of Safety in mines research board. Engineer 172:sup[Metallurgist] 46-7 D 26 '41

Properties and mode of rupture of a molybdenum and a molybdenum-vanadium steel judged from prolonged creep tests to fracture. H. J. Tapsell, C. A. Bristow and C. H. M. Jenkins. Inst Mech Eng J & Proc 146: Proc 208-22, pl 1-4 Mr '42

Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42

Trouble shooting in tool hardening. R. C. Stewart. il diags Iron Age 149:25-32 Ja 15 '42

Finishing

Bearing seizure as affected by surface finish. diags Machine Design 14:84+ Ag '42

Cleaning and bright plating steel parts of electric irons. F. A. Maurer. il Metal Finishing 39:657-61 D '41

Cold-finishing steel bars and shafting. il Blast F & Steel Pl 30:568-9+ My '42

Development of standards for army ordnance finishes. M. R. Norton. bibliog il Mech Eng 64:703-17 O '42

Developments in strip steel finishing lines. R. J. Wean. il Steel 110:85, 88 Ap 6 '42

Effect of moderate cold-rolling on the hardness of the surface layer of 0.34-per-cent-carbon steel plates. H. K. Herschman. bibliog pl J Research Nat Bur Stand 29:57-67 Jl '42

Effect of shot blasting and its bearing on fatigue. J. M. Lessells and W. M. Murray. bibliog il Am Soc T M Proc 41:659-73; Discussion, 674-81 '41

Fine tool finish increases tool life 2000 per cent. C. J. Wiberg and W. K. Heath. il diags Iron Age 150:33-7 Jl 23 '42; Abstract. Metals & Alloys 16:752+ O '42

Finishing steel containers. J. W. Gifford. il Metal Finishing 40:169-70 Mr '42

Flame-priming steel for painting. il Metal Finishing 40:395, 397 Jl '42

How surface condition affects fatigue strength; abstract. O. J. Horger and H. R. Neifert. Automotive Ind 85:78 D 1 '41

STEEL—Finishing—*Continued*

Oxyacetylene applications in intensified industrial program. W. S. Walker. il Welding J 21:180-1 Mr '42

Polishing of steel by electrolytic methods. C. B. F. Young and W. L. Brytczuk. bibliog il diags Metal Finishing 40:237-41, 306-12+ My-Je '42

Surface finish of journals. R. W. Dayton, H. R. Nelson and L. H. Milligan. bibliog il diags Mech Eng 64:718-26 O '42

X-ray measurement of the thickness of the cold-worked surface layer resulting from metallographic polishing. H. C. Vacher. J Research. Nat Bur Stand 29:177-81, pl 1-4 Ag '42

Flakes

See Steel—Defects

Gas content

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles, p739-41); Discussion. 741-6 S '42

Equilibria for gas-steel reactions; charts. Metal Prog 42:712 O '42

Manufacture of high-quality low-cost steel; heterogeneity of ingots. P. J. McKimm. il Steel 111:68-70+ S 28 '42

See also

Steel—Hydrogen content

Graphitization

See Steel—Metallography

Hydrogen content

Determination of oxygen, nitrogen and hydrogen in steel; a survey of the vacuum fusion method, with a note on the solid solubility of oxygen in high-purity iron. H. A. Sloman. bibliog Iron & Steel Inst J 143:298-312, pl 48 no 1 '41

Hydrogen determinations in steel; abstract. S. V. Hofsten and others. Iron Age 148:72 D 18 '41

Hydrogen effect

Chips, fish scales, and shiners. C. A. Zapffe and J. L. Yarne. il Am Cer Soc J 25:194-203; Discussion. 203-5 Ap 1 '42

Effect of hydrogen on the ductility of steel. Engineer 172:sup[Metallurgist] 36-9 O 31 '41

Fish-eyes in steel welds caused by hydrogen. C. A. Zapffe. il Metal Prog 42:201-6 Ag '42

Flake formation and embrittlement by hydrogen absorption of steel in annealing; abstract. E. Houdremont and H. Schrader. Metals & Alloys 14:914+ D '41

Further considerations of hydrogen as a cause of enamel defects. C. A. Zapffe and C. E. Sims. bibliog il Am Cer Soc J 25:205-15 Ap 1 '42

Hydrogen as an alloying element in steel and cast iron. E. Houdremont and P. A. Heller. Engineer 172:sup[Metallurgist] 42-3 D 26 '41

Hydrogen embrittlement produced by commercial cleaning and plating solutions. H. J. Noble. il Iron Age 148:45-52 N 27 '41; Same. Metal Finishing 40:121-7+ Mr '42

Influence of hydrogen content, permeability solubility on flake formation in steel; abstract. H. Bennek and G. Klotzbach. Metals & Alloys 15:312+ F 42

Influence of the steel-base composition on the rate of formation of hydrogen-swells in canned-fruit tinplate containers. T. P. Hoar, T. N. Morris and W. B. Adam. bibliog diags Iron & Steel Inst J 140:55-92, pl 9 no 2 '39; 144:133-55 no 2 '41; Discussion. 140:93-4 no 2 '39

Relation of surface oxidation to certain defects in enamel coatings on steel. C. A. Zapffe and J. L. Yarne. il Am Cer Soc J 25:191-4 Ap 1 '42

Scratch blisters. C. A. Zapffe and J. L. Yarne. il diags Am Cer Soc J 25:180-90 Ap 1 '42

Temperature and manner of growth of shatter cracks in steel rails. H. B. Wishart, E. P. Epler and R. E. Cramer. bibliog il Am Soc for Metals Trans 30:592-601; Discussion. 601-6 S '42

Inclusions

Alcoholic iodine method for determining oxides in steel; inclusions in pig iron and cast iron. T. E. Rooney and others. diags Iron & Steel Inst J 143:344-70 no 1 '41

Casting pit refractories. J. H. Chesters. Iron Age 148:57 N 27 '41

Chlorine method for the determination of non-metallic inclusions in steel. E. W. Colbeck, S. W. Craven and W. Murray. diag Iron & Steel Inst J 143:332-44 no 1 '41

Effect of the nature of inclusions on the metallic structure. A. M. Portevin. Metal Prog 41:682-3+ My '42

Examination of a high-sulphur free-cutting steel ingot. E. Gregory; J. H. Whiteley. bibliog Iron & Steel Inst J 144:9-32, pl 1-8 no 2 '41; Excerpts. Blast F & Steel Pl 29:1017-22 S '41; Abstract. Metal Prog 40:818+ N '41; Discussion. Iron & Steel Inst J 144:33-48, pl 8a no 2 '41

Rating of inclusions (dirt chart). G. W. Walker. Metal Prog 42:562 O '42

Structure and properties of forgings. G. W. Birdsall. il diags Steel 110:56-8, 60, 62+ F 9 '42

Titanium deoxidized steel shows good sulphide distribution. G. F. Comstock. il Foundry 70:135-6, 204-5 Ap '42

Lead content

Lead-bearing steels. Automobile Eng Extra no 31:386-8 N 6 '41

Machinability

See Steel cutting

Metallography

Anodic treatment of plain carbon steels. R. L. Imboden and R. S. Sibley. bibliog il Electrochem Soc Trans 82 (preprint 18): 195-207 O '42

Apparent delations between manganese and segregation in steel ingots. J. H. Whiteley. diag Iron & Steel Inst J 144:63-77; Discussion. 78-87 no 2 '41

Auto-nitrification of steel as it scales; nails from ruins of St Pierre. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:522-6 Ap '42

Crystal structure in steel and the effect of hot and cold work. A. F. Macconochie. il diags Steel 110:66-8+ F 16 '42

Crystal structure of cementite, Fe_3C. H. Lipson and N. J. Petch. bibliog diags Iron & Steel Inst J 142:95-103; Discussion. 104-6 no 2 '40; Correction. 144:309 no 2 '41

Deep etching in metallurgical investigations. G. K. Walker. il Iron Age 149:45-51 Ap 2 '42

Effect of carbide spheroidization upon the creep strength of carbon-molybdenum steel. S. H. Weaver. il Am Soc T M Proc 41:608-27; Discussion. 628 '41

Effect of carbon content and cooling rate on the decomposition of austenite during continuous cooling of plain carbon steels. R. F. Thomson and C. A. Siebert. bibliog il diags Am Soc for Metals Trans 30:27-43; Discussion. 43-6 Mr '42

Effect of grain size and heat treatment upon impact toughness at low temperatures of medium carbon forging steel. S. J. Rosenberg and D. H. Gagon. bibliog il Am Soc for Metals Trans 30:361-75; Discussion. 375-80 Je '42

Effect of the nature of inclusions on the metallic structure. A. M. Portevin. Metal Prog 41:682-3+ My '42

Effects of initial structure on austenite grain formation and coarsening. M. Baeyertz. bibliog il Am Soc for Metals Trans 30:458-88; Discussion. 488-90 Je '42

Effects of small amounts of alloying elements on graphitization of pure hypereutectoid steels. C. R. Austin and B. S. Norris. bibliog il Am Soc for Metals Trans 30:425-54; Discussion. 454-7 Je '42

Fabrication of carbon-molybdenum piping for high-temperature service. R. W. Emerson. bibliog il Am Soc T M Proc 41:579-604; Discussion. 605-7 '41

STEEL—Metallography—*Continued*

Factors influencing austenitic grain size. T. G. Digges and S. J. Rosenberg. Metal Prog 42:608+ O '42

Grain size control in steel. H. O'Neill. Engineer 173:158-9 F 20 '42

Grain size vs. notched-bar test. R. J. Brown; S. J. Rosenberg. il Metal Prog 41:685-7 My '42

Graphitic steels. F. R. Bonte. il Steel 109: 80, 82+ N 24 '41

Hadfield manganese steel as hard bearing metal. V. R. Farlow and L. H. McCreery. il Metals & Alloys 14:692-7 N '41

Hardenability of steel. A. E. Focke. bibliog diags Iron Age 150:37-40 Ag 20; 43-51 Ag 27 '42

Hardenability of steel; dendritic segregation a factor. R. M. Parke and A. J. Herzig. il Metals & Alloys 15:241-4 F '42

Hardening of steel. R. F. Mehl. il Metal Prog 40:759-65 N '41

Heat etching as a general method for revealing the austenite grain size of steels. O. O. Miller and M. J. Day. bibliog il diag Am Soc for Metals Trans 30:541-63; Discussion. 563-8 S '42

Heat treating chromium-carbon stainless steels. W. C. Troy and W. E. Mahin. il Steel 111:82, 84+ Jl 6 '42

Important factors in forging practice. A. F. Macconochie. il diags Steel 110:60-2, 64 F 23 '42

Influence of initial structure and rate of heating on the austenitic grain size of 0.5-percent-carbon steels and iron-carbon alloy. T. G. Digges and S. J. Rosenberg. J Research Nat Bur Stand 29:33-40, pl 1-29 Jl '42

Influence of structure on high-temperature strength. C. L. Clark. il Oil & Gas J 41:44+ My 21; 48 Je 4 '42

Influence of turbulence on the structure and properties of steel ingots. L. Northcott. bibliog diags Iron & Steel Inst J 143:49-89, pl 1-11; Discussion. 90-1 no 1 '41

Inspection of metals. H. B. Pulsifer. 180p $1.50 Am soc. for metals, 7301 Euclid av, Cleveland '41

Jominy end-quench hardenability tests on carbon-manganese steels. G. A. Timmons. il Welding J 21:sup472-6 O '42

Martensite thermal arrest in iron-carbon alloys and plain carbon steels; helium gas as quenching medium. A. B. Greninger. bibliog il diag Am Soc for Metals Trans 30:1-26 Mr '42

Metallographic investigations and bending fatigue tests on welded thin plates of high tensile steel. R. Mailänder, W. Szubinski and H. J. Wiester. diags Welding J 21:sup30-3 Ja '42

Metallurgical control of induction hardening. F. F. Vaughn, V. R. Farlow and E. R. Meyer. il Am Soc for Metals Trans 30:516-38; Discussion. 538-40 Je '42

Method of sclero-grating employed for the study of grain boundaries and of nitrided cases; grain structures revealed by cutting. B. O. W. L. Ljunggren. diags Iron & Steel Inst J 141:341-400, pl 22-39 bibliog(p399-400) no 1 '40; Abstract. Metal Prog 42:698+ O '42; Discussion. Iron & Steel Inst J 141: 401-4 no 1 '40

Multiple tempering of high speed steel. J. G. Ritchie. Metal Prog 41:85-6 Ja '42

Nucleation and growth rates of pearlite. J. E. Dorn, E. P. De Garmo and A. E. Flanigan. bibliog Am Soc for Metals Trans 29: 1022-36 D '41

Properties and mode of rupture of a molybdenum and a molybdenum-vanadium steel judged from prolonged creep tests to fracture. H. J. Tapsell, C. A. Bristow and C. H. M. Jenkins. Inst Mech Eng J & Proc 146: Proc 208-22, pl 1-4 Mr '42

Properties and structures of case hardened steel affected by cooling practice after carburizing. O. W. McMullan. il Am Soc for Metals Trans 29:913-28; Discussion. 929-36 D '41

Shepherd grain size fracture standards; stereoscope photographs by G. K. Manning. Metal Prog 42:227 Ag '42

Simplified electro-polishing of steel specimens. R. W. Parcel. il Metal Prog 42: 209-12 Ag '42

Standard grain sizes for steels; photomicrographs. Metal Prog 42:550 O '42

Standardized methods for determining austenitic grain size of steel. diags Metal Prog 41:332-4 Mr '42

Structure and properties of forgings. G. W. Birdsall. il diags Steel 110:56-8, 60, 62+ F 9 '42

Structure and rate of formation of pearlite. R. F. Mehl. bibliog il diags Am Soc for Metals Trans 29:813-62 D '41; Same cond. Iron Age 148:45-9 O 30 '41; Same cond. Metal Prog 40:759-65 N '41

Structure of pearlite. F. C. Hull and R. F. Mehl. il diags Am Soc for Metals Trans 30:381-421 bibliog(42 references. p420-1); Discussion. 421-4 Je '42

Surface structures and chemistry of heat treated 18-4-1 steel. W. A. Schlegel. il Iron Age 148:45-50 D 4; 48-59 D 11; 54-8 D 18 '41

Transformation of austenite in 0.89% carbon steel at constant sub-critical temperature; chart and photomicrographs. Metal Prog 42:617 O '42

Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. il diags Machine Design 14:70-4+ S; 69-73 O; 82-6 N; 91-5 D '42 (to be cont)

Weldability, a matter of cooling rates. H. Lawrence. bibliog Steel 110:90, 93-4 Ja 26 '42

Weldability; cracks and brittleness under external load; hardness and microstructure; review of the literature to July 1, 1939. W. Spraragen and G. E. Claussen. bibliog(135 references) diags Welding J 20: sup561-90 D '41

Bibliography

Bibliography on grain size in steel (including abnormality, normality and hardenability); covering the period 1922 to 1940. R. Elsdon. 56p pa 2s 6d; to members 1s Iron and steel inst, 4, Grosvenor gardens, London, SW 1 '41

Nitrogen content

Auto-nitrification of steel as it scales; nails from ruins of St Pierre. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:522-6 Ap '42

Determination of combined nitrogen in steel; a rapid method. H. F. Beeghly. bibliog il diag Ind & Eng Chem Anal ed 14:137-40 F 15 '42

Determination of oxygen, nitrogen and hydrogen in steel; a survey of the vacuum fusion method, with a note on the solid solubility of oxygen in high-purity iron. H. A. Sloman. bibliog Iron & Steel Inst J 143:298-312, pl 48 no 1 '41

Nitrogen for nickel in Cr-Ni steels. W. Tofaute and H. Schottky. Iron Age 148:39-43 N 13 '41

Nitrogen's effect on chromium-nickel steels; abstract. R. Scherer, G. Riedrich and H. Kessner. Iron Age 150:70 O 22 '42

Oxygen content

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles. p739-41); Discussion. 741-6 S '42

Determination of oxygen, nitrogen and hydrogen in steel; a survey of the vacuum fusion method, with a note on the solid solubility of oxygen in high-purity iron. H. A. Sloman. bibliog Iron & Steel Inst J 143:298-312, pl 48 no 1 '41

Development and comparison of two procedures for the aluminum reduction method for determining oxygen in steel; general summary showing applicability of the aluminium reduction method. N. Gray and others. diags Iron & Steel Inst J 143:321-31, pl 48 no 1 '41

Examination of the oxygen content of a basic Bessemer rimming steel. T. Swinden and W. W. Stevenson. diag Iron & Steel Inst J 143:375-80, pl 49 no 1 '41

STEEL—Oxygen content—*Continued*

Fractional vacuum fusion method for the separation of oxides and gases in steel. T. Swinden, W. W. Stevenson and G. E. Speight. Iron & Steel Inst J 143:312-20 no 1 '41

See also
Steel—Deoxidation

Phosphorus content

Some properties of phosphorus-titanium steels. G. F. Comstock. il Am Soc for Metals Trans 30:337-53; Discussion. 354-60 Je '42

Tin-can camera photographs location of radioactive atoms. W. E. Shoupp. il Sci Am 165:322 D '41; Abstract. Iron Age 148:51 D 25 '41

Prices

Average monthly quotations in 1941; tabulation. Steel 110:358 Ja 5 '42

Ceiling prices established for all warehouse-quantity steel resales. Steel 109:35 D 22 '41

Ceilings for high-alloy castings established at Oct. 1-15 levels. Steel 111:106 S 14 '42

Ceilings set by OPA for flat rolled rejects, wasters. Iron Age 150:131-2 S 17 '42

Comparison of prices; market prices at date, and one week, one month, and one year previous. Published in weekly numbers of Iron age

Conversion charges, extras and discounts under OPA regulation. Steel 110:24-5 Je 29 '42

Finished steel, 1929-1941; tabulation. Steel 110:363-5 Ja 5 '42

Finished steel prices, monthly, 1929-1941; tabulations. Iron Age 149:179+ Ja 1 '42

Iron and steel scrap prices; finished and semi-finished iron and steel prices; iron and steel warehouse prices. Published in weekly numbers of Iron Age

Iron, steel price schedule revised to provide relief for exporters. Steel 110:37 F 9 '42

Market in tabloid. Published in weekly numbers of Steel

New extra card issued for NE steels; tabulation. Iron Age 150:149-50 N 5 '42

OPA price ceilings on principal steel products. Iron Age 149:154-5 Ja 1 '42

OPA resale steel price ceiling order, condensed. Iron Age 148:88-91 D 25 '41

Price section for the metals, metalworking and allied industries; corrected to Feb. 9, 1942. Iron Age 149:1-19 sec 2 F 12 '42

Rejected steel ceilings set at 65-85 per cent of prime products. Steel 111:60 S 21 '42

Steel, iron and scrap price composites, 1937-1941; tabulation. Steel 110:366 Ja 5 '42

Steel price test. Business Week p34 O 3 '42

Steel prices up 1 per cent while general market level advances 30. Steel 110:56 Je 22 '42

Steel resale price schedule relaxed to free distressed stocks. Steel 110:59 Ap 6 '42

Steel warehousemen appeal to OPA; report price-ceiling injustices. Steel 110:43 Ja 26 '42

Top resale prices for national emergency steels fixed by OPA. Steel 111:66-7 S 7 '42

See also
Railroads—Rates—Steel
Steel, Structural—Prices
Steel bars—Prices

Protection

Adherence of thick silver plate on steel. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 20):223-30 O '42

Better handling facilities reduce processing time; bonderizing steel enclosures for switchgear control equipment; Westinghouse electric & mfg. co. il Steel 109:85-6 D 1 '41

Buffing before plating to improve rust resistance. Iron Age 149:49-51 Ap 16 '42

Cathodic protection of tank farms. R. A. Brannon. plan Pet Eng 13:92, 94-6 S '42

Chromizing of steel; abstract. I. R. Kramer and R. H. Hafner. Iron Age 150:44-5 O 22 '42

Comparative study of oils for supplemental protection of black oxide coatings on steel. E. A. Parker and A. K. Graham. Metal Finishing 40:363-4+ Jl '42

Concrete bottoms in rundown tanks solve light-oil corrosion problems. J. M. Vyn. diag Oil & Gas J 40:157 Ap 30 '42

Corrosion and protection of structural steel. A. M. G. Dempster. Engineering 153:17-18 Ja 2 '42

Corrosion resistance afforded by bright dipped cadmium coatings. G. Soderberg. Electrochem Soc Trans 82 (preprint 14):141-4 O '42

Effect of zinc chromate paint on welding. C. T. Gayley. il Welding J 21:sup434-9 S '42

Electrolytic zinc coated wire; Bethanized wire. L. H. Winkler. flow sheet il Metal Finishing 40:76-83 F '42

Electroplated coatings on steel; abstract and discussion. G. A. Lux. Iron Age 150:70-1 Jl 2 '42

Exhaust office air heats steel storage warehouse. il Heating-Piping 14:553-4 S '42

Flame-priming method of preparing steel surfaces for painting. E. W. Deck. bibliog il diags Iron Age 150:80-2 O 22; 44-8 O 29 '42

Flame-priming steel for painting. E. W. Deck. il Metals & Alloys 16:708 O '42

How to avoid use of critical materials by protecting and finishing metal surfaces, using heat and chemical treatments only. C. B. Young. il Steel 111:64-5+ O 19 '42

Ihrigizing makes pump shaft corrosion resistant. diags Product Eng 13:193 Ap '42

Lead plating. A. G. Gray and W. Blum. bibliog Electrochem Soc Trans 80 (paper 39): 537-48 O '41

Life of heat-exchanger steel is extended by relining. il Oil & Gas J 41:67 Ag 27 '42

Lowering cobalt content of welded coating alloys. Iron Age 149:48 Ap 16 '42

Maintenance of steel water tanks; abstract. E. E. Alt. Eng N 128:407 Mr 12 '42

New lead coating researches which have reached commercial stage. il Steel 111:47-8 O 19 '42

Paint characteristics; structural steel protection. J. H. Hesketh. Engineering 153: 44-5 Ja 16 '42

Paint coatings substituted for metallic zinc coatings. E. F. Hickson. Steel 110:74, 77+ Ja 12 '42; Same. Pub Roads 22:259-61 Ja '42; Same cond. Sheet Metal Worker 33:110+ Ja '42; Excerpts. Eng N 128:179 Ja 29 '42

Phosphate coatings on steel. H. Chase. il Metals & Alloys 15:420-5 Mr '42

Phosphate rust-proofing; abstract. V. M. Darsey. Iron Age 149:64 Je 25 '42

Plating zinc on steel from waste materials; Hubbell-Weisberg process. Product Eng 13: 358 Je '42

Preparation of steel surfaces. S. R. J. Davison. Engineering 153:27-8 Ja 9 '42

Protective painting of structural steel. Engineering 154:144-5, 165-6 Ag 21-28 '42

Report of A.S.T.M. subcommittee XXIX on preparation and painting of structural iron and steel. Am Soc T M Proc 41:322-9 '41

Rust-proof coatings for manifolds; porcelain enamel coating. R. H. Wendt. il Aero Digest 41:162 O '42

Rust proofing of machined steel; prevention of corrosion from perspiration of operator's hands. J. A. Stifter. Metal Finishing 40: 262-3 My '42

Rust proofing process; Bonderite K. Metal Finishing 40:145-6 Mr '42; Excerpt. Steel 110:60 Mr 2 '42

Salt spray evaluation of oiled black oxide coatings on steel. A. K. Graham. Metal Finishing 40:254-5 My '42

Silver coated steel. Product Eng 13:107-8 F '42

Steel piles for subaqueous work. G. G. Greulich. il diags Civil Eng 12:566-9 O '42

Steel sheets with zinc coating that withstands severe forming. il Product Eng 13: 564-6 O '42

Structure of brush-plated silver. H. L. Crosby and L. I. Gilbertson. il Electrochem Soc Trans 82 (preprint 21):231-5 O '42

STEEL—Protection—*Continued*

Substitutes for zinc coatings. Steel 110:68+ Mr 23 '42

Temporary protective coating; Carbozite. il Steel 111:126 O 5 '42

Treat steel tanks handling salt water or weak acid with enamel coatings. Nat Pet N 34 pt 2:R300 S 30 '42

See also

Steel, Stainless clad

Water tanks, Steel—
Cathodic protection

Quenching

See Steel, Quenching of

Rimmed steel

Examination of the oxygen content of a basic Bessemer rimming steel. T. Swinden and W. W. Stevenson. diag Iron & Steel Inst J 143:375-80, pl 49 no 1 '41

Manufacture of high-quality low-cost steel; heterogeneity of ingots. P. J. McKimm. bibliog il Steel 111:68-70+ S 28; 130, 132+ O 5 '42

Scaling

Auto-nitrification of steel as it scales; nails from ruins of St Pierre. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:522-6 Ap '42

Heat-resisting steels. Automobile Eng Extra no 31:371-2 N 6 '41

Influence of vanadium on the scaling of steel; abstract. H. Cornelius and W. Bungardt. Engineer 172:sup[Metallurgist] 35-6 O 31 '41

Removing heat-treat scale. il Steel 111:64+ S 28 '42

Scaling of heat-resistant steels and alloys; abstract. G. Bandel. Iron Age 150:59 S 3 '42

Specifications

Alternate or national emergency steel specifications; tabulation. S A E J 50:sup20 Ap '42

Commercial variations; method of presenting steel properties by charts. Metals & Alloys 16:448 S '42

Emergency steel specifications; reference book sheet. Am Mach 86:301, 303 Ap 2 '42

Government specifications for aircraft carbon and alloy steel; tabulation. Iron Age 149: 63-5 F 19 '42

Government specifications for aircraft stainless steel; tabulation Iron Age 149:62 F 19 '42

National emergency steel specifications. Product Eng 13:182-3 Ap '42

Steel specifications and their interpretation. A. J. K. Honeyman. il Engineer 173:333-6 Ap 17 '42

Steel specifications changed to conserve strategic alloys supplies. Steel 110:39 Mr 9 '42

War necessitates many changes in A.S.T.M. specifications. Blast F & Steel Pl 30:sup67-8 Ap '42

War production board issues emergency steel list. Steel 110:72 Mr 16 '42

Standards

Aircraft stainless steels; government specifications. Aviation 41:151, 153 Ag '42

American iron and steel institute and S.A.E. steel specification numbers revised. Steel 110:64-5 F 16 '42; Metal Prog 41:345 Mr '42; Iron Age 149:66-8 Ap 9 '42

A.I.S.I. standard steel compositions; revised Aug. 17, 1942. Metal Prog 42:523B O '42

American iron and steel institute standard steel compositions; tabulation. Metal Prog 40:769 N '41

Appraisal of NE steels in terms of old types. F. B. Foley. Metal Prog 42:365-7 S '42

Composition ranges of standard stainless steel type numbers; revisions of the American iron and steel institute as of Feb. 1942; tabulation. Iron Age 149:68 F 26 '42

Conserving alloy steels in petroleum processing equipment by specifying lower alloy contents. C. L. Clark. Steel 111:86, 123-5 S 7 '42

Determination of recalescent points in steels. il Metal Prog 41:822-4 Je '42

Extended list of national emergency steels; August 1942 release; with hardenability data. Metal Prog 42:398 S '42

Materials specialists in quest of wartime expedients; ASTM standards. Ry Age 113: 9-12 Jl 4 '42

NE (national emergency) alloy steel data. C. M. Parker. bibliog diags Steel 111:66-8+ O 19 '42

National emergency gear steels. E. F. Davis. il diags Iron Age 150:45-9 Ag 6; 58-64 Ag 13 '42

National emergency steels. C. M. Parker. Metals & Alloys 16:622-9 O '42

NE steels' applications discussed at National metal congress. Steel 111:30-1 O 19 '42

National emergency steels expanded in sweeping revision; new specifications as released by American iron & steel institute, Aug. 14. S A E J 50:sup17 S '42; Iron Age 150: 74 Ag 13 '42

National emergency steels NE 8600 to 8900. J. H. Jones. Metal Prog 41:793-9 Je '42

NE steels; new series added to conserve critical alloying elements; with charts. Steel 111:41-2, 76, 81 Ag 31 '42

National emergency steels; properties of 8000 series. Engineer 174:178-9 Ag 28 '42

NE steels reviewed; abstract. L. S. Bergen. Iron Age 150:65-6 O 22 '42

New aero national emergency steels devised to expedite production and conserve scarce alloys; with tables. S A E J 50:sup 18-20 S '42; Same. Steel 111:78, 80, 82 S 7 '42

New extra card issued for NE steels; tabulation. Iron Age 150:149-50 N 5 '42

New standard steel classifications; current SAE steels and NE steels. Machine Design 14:150-1 O '42

1942 SAE handbook includes important new standards. Ind Stand 13:125-6 My '42

Physical properties of NE carburizing steels. A. S. Jameson. Iron Age 150:58-64 S 17 '42

Properties of the new NE (national emergency) alloy steels; tables and charts. Steel 110:66-9 Je 8; 66-8, 70, 72 Je 15; 111:80-2, 84+ Jl 13; 96-7+ N 9 '42

SAE members working on five steel fronts. il S A E J 50:sup17-21 Ap '42

S.A.E. steel numbering system. W. L. Nelson. Oil & Gas J 40:45 Ap 9 '42

Standard steels. Sci Am 167:58 Ag '42

Standardization of hardenability tests. W. E. Jominy. diags Metal Prog 40:911-14 D '41

Suitability of alternate steels for aircraft parts. A. C. Willis and M. Hill. Metal Prog 42:370-5 S '42

Use the new NE steels, specify to meet operating conditions only, WPB to tell petroleum refiners. Nat Pet N 34:R177-8 Je 10 '42

Variety and shapes of steel products limited by WPB order. Steel 111:59 N 2 '42

War emergency specifications are proposed for refinery bolting to conserve alloys. Nat Pet N 34 pt 2:R257-9 Ag 26 '42

WPB orders unit stress of 24,000 lb. for steel design. Eng N 129:389 S 17 '42; Same. Roads & Bridges 80:128 O '42

Working of national emergency steels. Am Mach 86:1095-1106 O 1 '42

Sulfur content

Desulphurization in the open-hearth. F. W. Scott and T. L. Joseph. bibliog il Metals & Alloys 15:745-50, 976-8 My-Je '42

Effect of manganese on the desulphurizing power of calcium silicates. F. W. Scott and T. L. Joseph. bibliog Blast F & Steel Pl 30: 425-30, 532-5+ Ap-My '42

Emergency conservation of manganese; titanium to control sulfur. Metal Prog 40: 893 D '41

Examination of a high-sulphur free-cutting steel ingot. E. Gregory; J. H. Whiteley. bibliog Iron & Steel Inst J 144:9-32, pl 1-8 no 2 '41; Excerpts. Blast F & Steel Pl 29:1017-22 S '41; Abstract. Metal Prog 40: 818+ N '41; Discussion. Iron & Steel Inst J 144:33-48, pl 8a no 2 '41

STEEL—Sulfur content—*Continued*

Free-cutting steels; introduction of anhydrous sulphite. E. L. Ramsey and L. G. Graper. Chem Age (Lond) 47:301 O 3 '42

Higher output credited to desulphurization; abstract. G. S. Evans. Iron Age 149:98 F 26 '42

Rapid metallurgy in war production; vs. new equipment. G. S. Evans. il Iron Age 149:31-5 Ap 23 '42

Testing

Accelerated atmospheric corrosion test. H. Pray and J. L. Gregg. diags Am Soc T M Proc 41:758-65 '41

Appraisal of NE steels in terms of old types. F. B. Foley. Metal Prog 42:365-7 S '42

Confusion in testing terms and methods. G. P. Lenz, jr. il Metal Prog 41:198-202, 682 F, My '42; Discussion. R. J. Brown. 42:235 Ag '42

Corrosion of unstressed steel specimens and various alloys by high-temperature steam; abstract. Solberg, Hawkins and Potter. Oil & Gas J 40:54 Mr 12 '42

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. diags Engineering 153:478-80, 498 Je 12-19 '42

Determination of recalescent points in steels. il Metal Prog 41:822-4 Je '42

Durability of gears. H. D. Mansion. Engineer 173:522-4 Je 19 '42

Effect of moderate cold-rolling on the hardness of the surface layer of 0.34-percent-carbon steel plates. H. K. Herschman. bibliog pl J Research Nat Bur Stand 29:57-67 Jl '42

Effect of rate of strain on yield strength, tensile strength, elongation, and reduction of area in tension tests. P. G. Jones and H. F. Moore. Am Soc T M Proc 41:488-91 '41

Effect of specimen shape and size on measured values of tensile properties. G. F. Jenks. Am Soc T M Proc 41:483-7 '41

Effects of notching on strained metals. G. Sachs and J. Lubahn. bibliog diags Iron Age 150:31-8 O 8; 48-52 O 15 '42

Effects of tin on the properties of plain carbon steel; abstract. J. W. Halley. Iron Age 150:42-4 O 22 '42

Fatigue comparison of 7-in. diameter solid and tubular axles. O. J. Horger and T. V. Buckwalter. il Am Soc T M Proc 41:682-93; Discussion. 694-5 '41

Fatigue strength of crankshafts. C. G. Williams and J. S. Brown. il diags Engineering 154:58-9, 78-80 Jl 17-24 '42

Fretting corrosion and fatigue strength: brief results of preliminary experiments. E. J. Warlow-Davies. bibliog Inst Mech Eng J & Proc 146:Proc 32-8 pl 1-2 N '41; Discussion. 147:Proc 83-7 My '42

Hardenability of steel calculated from chemical composition. M. A. Grossmann. charts Metal Prog 42:80-1+ Jl '42

Hardenability testing of low carbon steels. R. C. Frerichs and E. S. Rowland. bibliog Am Soc for Metals Trans 30:225-45; Discussion. 245-8 Mr '42

High-speed testing. Engineer 172:sup[Metallurgist] 41-2 D 26 '41

Hydrogen embrittlement produced by commercial cleaning and plating solutions. H. J. Noble. il Iron Age 148:45-52 N 27 '41; Same. Metal Finishing 40:121-7+ Mr '42

Inexpensive box affords safe breakage of test samples. diags Steel 111:72 S 28 '42

Inspection of metals. H. B. Pulsifer. 180p $1.50 Am. soc. for metals, 7301 Euclid av, Cleveland '41

Intercrystalline cracking in boiler plates; exposure of iron and steel specimens to sodium hydroxide solutions at high temperature and pressure. F. Adcock and A. J. Cook. diags Iron & Steel Inst J 143:117-33, pl 15-18 no 1 '41

Intercrystalline cracking in boiler plates; prolonged-stress tests on iron and steel specimens immersed in hot sodium hydroxide solutions. C. H. M. Jenkins and F. Adcock. diags Iron & Steel Inst J 143:102-16, pl 12-14 no 1 '41

Intercrystalline cracking in boiler plates; strain-etch markings in boiler-plate material of acid open-hearth manufacture. F. Adcock and C. H. M Jenkins. Iron & Steel Inst J 143:133-6, pl 19-20 no 1 '41

New data for evaluating manganese-molybdenum steels. R. M. Parke, J. R. Blanchard and A. J. Herzig. il diag Metal Prog 40:906-10 D '41

Pitting and its effect on the fatigue limit of steels corroded under various conditions. D. J. McAdam, jr. and G. W. Geil. bibliog il Am Soc T M Proc 41:696-731; Discussion. 732 '41

Properties and structures of case hardened steel affected by cooling practice after carburizing. O. W. McMullan. il Am Soc for Metals Trans 29:913-28; Discussion. 929-36 D '41

Rapid tension tests using the two-load method; abstract. A. V. de Forest, C. W. MacGregor and A. R. Anderson. Metals & Alloys 15:344+ F '42

Röntgenographische spannungsmessungen bei überschreiten der fliessengrenze an zugstäben aus unlegiertem stahl. F. Bollenrath, V. Hauk and E. Osswald. diag V D I 83:129-32 F 4 '39; Abstract (Residual stresses in pure tension revealed by X-ray diffraction method). Welding J 21:sup285-6 Je '42

SAE standard procedure recommended for testing hardenability of steel. bibliog diags S A E J 50:sup15-20+ Ja '42

Standardized methods for determining austenitic grain size of steel. diags Metal Prog 41:332-4 Mr '42

Suitability of alternate steels for aircraft parts. A. C. Willis and M. Hill. Metal Prog 42:370-5 S '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42; Same cond. Welding J 21:sup132-60 Mr '42

Testing for under-surface flaws. Iron Age 150:67 Jl 2 '42; Same. Blast F & Steel Pl 30:902 Ag '42

Tests of cylindrical shells. W. M. Wilson and E. D. Olson. il diags Ill U Eng Exp Sta Bul 331:1-129 '41 (pa $1)

Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. bibliog il diags Machine Design 14:63-7+ Ag '42

Weldability as determined by ductility tests. H. Lawrence. bibliog diags Steel 110:78+ Ap 6 '42

Weldability, fusibility tests; a review of the literature to July 1, 1939. W. Spraragen and G. E. Claussen. diags Welding J 21:sup65-86 bibliog(250 references, sup85-6) F '42

Weldability; is it practical to measure it by hardness tests? H. Lawrence. Steel 110:72, 75+ Mr 9 '42

See also

Steel, Aircraft—Testing
Steel, Stainless—Testing
Steel, Structural—Testing
Steel alloys—Testing
Steel castings—Testing
Steel ingots—Testing
Tool steel—Testing

Spark testing

How to identify alloy steel scrap; possibilities and limitations of spark testing. L. P. Tarasov. bibliog il Iron Age 149:39-43 Ap 16 '42

Spark test for metals; tabulation. il Metal Prog 42:586 O '42

Spark tests for classifying metals. il Metals & Alloys 16:266 Ag '42

Temperature effects

Carburization of cracking-still tubes during service. C. L. Clark. il Oil & Gas J 40:69-70 N 27 '41

Creep recovery of a 0.17 per cent carbon steel. A. E. Johnson. bibliog Inst Mech Eng J & Proc 145:Proc 210-20 O '41; Discussion. 146:Proc 187-8 F '42

STEEL—Testing—Temperature effects—*Cont.*

Creep strength of 18-8 Ti. A. M. Portevin. Metal Prog 41:88 Ja '42

Deformation at high temperatures; study was made for the Iron and steel institute. Iron Age 149:71 Mr 26 '42

Effect of carbide spheroidization upon the creep strength of carbon-molybdenum steel. S. H. Weaver. il Am Soc T M Proc 41:608-27; Discussion. 628 '41

Effect of grain size and heat treatment upon impact toughness at low temperatures of medium carbon forging steel. S. J. Rosenberg and D. H. Gagon. bibliog il Am Soc for Metals Trans 30:361-75; Discussion. 375-80 Je '42

Effect on the endurance limit of submerging resistance-welded fatigue specimens in a cold chamber. O. H. Henry and P. L. Calamari. Welding J 21:sup291-2 Je '42

Effect on the endurance limit of submerging welded fatigue specimens in a cold chamber. O. H. Henry and S. Cannizzaro. il diag Welding J 21:sup387-8 Ag '42

Properties and mode of rupture of a molybdenum and a molybdenum-vanadium steel judged from prolonged creep tests to fracture. H. J. Tapsell, C. A. Bristow and C. H. M. Jenkins. Inst Mech Eng J & Proc 146:Proc 208-22, pl 1-4 Mr '42

Relative hot ductility of steels shown by stress-rupture data. C. L. Clark. Oil & Gas J 40:35+ F 5 '42

Structural changes in carbon steels caused by creep; abstract. C. H. M. Jenkins, G. A. Meller and E. A. Jenkinson. Iron Age 149: 48 Ap 23 '42

Temperature and strength of structural steel. F. H. Frankland. Eng N 129:409 S 24 '42

Tensile-impact resistance of carbon-molybdenum welds at elevated temperatures. O. H. Henry and M. A. Cordovi. il diags Welding J 21:sup416-20 S '42

Tensile tests of stainless steel welds at low temperatures. O. H. Henry, G. K. Wicks and B. Hirshkowitz. il diags Welding J 21:sup384-7 Ag '42

Tests show effect on steels in cracking coil tubes of changes in chromium content. C. L. Clark. Nat Pet N 34:R147-50 My 13 '42

See also
Steel, Heat resisting

Transportation

See also
Steel handling

Uses

Actual and recommended applications of NE steels; tabulations. Am Mach 86:1099-1101 O 1 '42

Graphitic steels; some of their more important applications. F. R. Bonte. diags Steel 109:96+ D 1 '41

Typical applications of S A E steels; data sheets. Mach 48:117 O; 201 N; 131 D '41; 131 Ja; 133 F; 145 Mr '42

Welding

Anomalous hardness of welds in low alloy steels. J. H. G. Monypenny. Metal Prog 42:237-8 Ag '42

Arc welded SAE 4130; studies at Battelle memorial institute; abstract. Iron Age 150: 50 O 22 '42

Arc welding applications. E. W. P. Smith. il Aero Digest 41:180, 182+ S '42

Arc welding dissimilar metals. A. F. Davis. il Metals & Alloys 16:69-70 Jl '42

Baseplates of welded steel. M. L. Murdock. il Iron Age 148:50-1 N 20 '41

Cleaning, an important welding operation. H. Lawrence. diags Steel 110:80-1 Je 29 '42

Controlling the effect of contraction and included stresses in welded structures. A. E. Berriman. il diags Welding J 21:373-8 Je '42

Corrosion resistance of welded joints; a review of the literature from Jan. 1, 1937 to Jan. 1, 1941. W. Spraragen and H. H. Chiswik. bibliog(97 references) il diags Welding J 21:sup209-37 My '42

Crack sensitivity of welded aircraft steel. J. G. Ball. Metal Prog 41:213+ F '42

Detail design for joining by flash welding. L. W. Combs. il diags Product Eng 13:552-5 O '42

D.c. seam welding. T. W. Dietz. il diags Iron Age 150:58-9 O 1 '42

Effect of zinc chromate paint on welding. C. T. Gayley. il Welding J 21:sup434-9 S '42

Effects of residual stress and external restraint on some welding characteristics of SAE X-4130 steel tubing. G. Sachs and W. E. Davis. il diags Welding J 21:sup427-33 S '42

Effects of welding procedure on joints made in type 304 stainless steel. E. P. Auler. bibliog il diags Welding J 21:sup98-106 F '42

Fatigue properties of welds made in various boiler plate materials; abstract. E. C. Huge. Iron Age 150:47 O 22 '42

Fatigue strength of welded joints; review of the literature from October 1936 to September 1941. W. Spraragen and D. Rosenthal. bibliog(127 references) il diags Welding J 21:sup297-348 Jl '42

Fish-eyes in steel welds caused by hydrogen. C. A. Zapffe. il Metal Prog 42:201-6 Ag '42

Flash butt welding of chrome-molybdenum steel. W. S. Evans and V. V. Netchvolodoff. il diags J Aeronautical Sci 9:207-12 Ap '42

Gas and resistance welding the aircraft alloy SAE X-4130. H. Lawrence. il Steel 109: 84-5, 88, 90+ N 17 '41

Gas welding NE 8630 steels; abstract. A. R. Lytle and K. H. Koopman. Iron Age 150: 49-50 O 22 '42

Handling of Ni-clad steel. J. V. Kielb. diags Welding J 20:784-6 N '41

High strength, low alloy steel; conference at National metal congress. Metal Prog 40:781-3 N '41

How to select arc welding electrodes. C. H. Jennings. il Iron Age 150:42-7 O 15 '42

Influence of columbium or titanium additions to 5 Cr Mo steel; hardness after air cooling and after welding. C. L. Clark. Oil & Gas J 40:39+ Ap 2 '42

Inventories of material are reduced when flanges are cut from plate. J. R. Morrill. il diags Nat Pet N 34 pt 2:R349-50 O 28 '42

Investigation of welding problems through metallurgy. L. L. Wyman. il Iron Age 150: 37-9 O 29 '42

Jominy end-quench hardenability tests on carbon-manganese steels. G. A. Timmons. il Welding J 21:sup467-77 O '42

Low carbon, low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:145-6, 148, 150 N '42

Management control of design and welding of aircraft steels. J. P. Dods. il diags Welding J 20:787-92 N '41

Manual atomic hydrogen welding of tool steels. C. H. Speakman. il Steel 110:86+ My 18 '42

Metallographic investigations and bending fatigue tests on welded thin plates of high tensile steel. R. Mailänder, W. Szubinski and H. J. Wiester. diags Welding J 21: sup30-3 Ja '42

N-A-X 9115 high-tensile steel; brittle as-welded structure tempered by brief post heat; abstract. W. F. Hess and C. R. Schroder. Iron Age 150:47-8 O 22 '42

New welding process for heavy plate. il Marine Eng 47:280 O '42

Prevention of cracks in welded light alloy steel. E. C. Rollason and A. H. Cottrell. Metal Prog 42:212+ Ag '42

Progress report on the use of flash welding as a means of fabricating aircraft structural parts from X-4130 steel. R. P. Della-Vedowa. il diags Welding J 21:sup421-6 S '42; Same. Steel 111:80-2, 93 D 21 '42

Proposed specifications for stainless steel arc-welding electrodes for welding steels of high hardenability. diags Welding J 21:513-14 Ag '42

Quick method of comparing weldability of substitute steels. A. B. Kinzel. Welding J 21:sup286-7 Je '42; Same. Metal Prog 42: 71+ Jl '42

STEEL—Welding—*Continued*

Regalvanizing welded seams; possibilities in lengthening life of welded structures made from galvanized steel. il Steel 110:64+ Je 29 '42

Report of tee-bend tests on carbon-manganese steels. L. C. Bibber and J. Heuschkel. il diags Welding J 21:sup485-90 O '42

Residual stress in butt-welded S.A.E. X4130 tubing. G. Sachs and T. Graham. il Welding J 21:sup122-5 Mr '42

Review of present-day welding of aircraft steels. A. J. Williamson. il J Aeronautical Sci 9:350-4 Jl '42

Shotweld process of welding stainless steel 18-8. J. Winlock and J. J. MacKinney. il Welding J 21:153-7 Mr '42

Some comments to the design of welded pressure vessels. H. F. Lassner. diags Welding J 21:353-5 Je '42

Spot welding. R. F. Tylecote. bibliog il diags Welding J 20:sup359-68, sup591-602 Ag, D '41

Spot welding in mild steel; inspection and control of quality. diags Engineer 174:132-3 Ag 14 '42

Spot welding of 0.040 in. S.A.E. X-4130 steel. W. F. Hess and D. C. Herrschaft. il Welding J 21:sup441-7 O '42; Abstract. Metals & Alloys 16:1134-5 D '42

Stainless steel arc welding techniques. E. W. P. Smith. il diags Iron Age 149:57-62 Ap 2 '42

Stress distribution in welded tube connections. F. L. Tocher. bibliog diags Welding J 21:sup125-8 Mr '42

Study of the embrittling effect of zinc upon stainless steel; effect of tobin bronze. O. H. Henry and R. W. Schroeder. il diag Welding J 21:sup287-90 Je '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42; Same cond. Welding J 21:sup132-60 Mr '42

Tensile-impact resistance of carbon-molybdenum welds at elevated temperatures. O. H. Henry and M. A. Cordovi. il diags Welding J 21:sup416-20 S '42

Tensile tests of stainless steel welds at low temperatures. O. H. Henry, G. K. Wicks and B. Hirshkowitz. il diags Welding J 21:sup384-7 Ag '42

Tentative specifications for iron and steel arc-welding electrodes. diags Welding J 21:594-7 S '42

Tentative specifications for iron and steel gas-welding rods. diags Welding J 21:598-600 S '42

Watch your step when making welded repairs. E. MacDermod. Power 86:760c+ O '42

Weld hardening and steel composition. A. Edson. bibliog diag Metals & Alloys 15:966-71 Je '42

Weld quench gradient tests. W. H. Bruckner. il diag Welding J 21:sup496-500 O '42

Weldability, a matter of cooling rates. H. Lawrence. bibliog Steel 110:90, 93-4 Ja 26 '42

Weldability as determined by ductility tests. H. Lawrence. bibliog diags Steel 110:78+ Ap 6 '42

Weldability, fusibility tests; a review of the literature to July 1, 1939. W. Spraragen and G. E. Claussen. diags Welding J 21:sup65-86 bibliog(250 references, sup85-6) F '42

Weldability; is it practical to measure it by hardness tests? H. Lawrence. Steel 110:72, 75+ Mr 9 '42

Weldability of carbon-manganese steels; report of subcommittee II, Industrial research division, welding research committee of the Engineering foundation. Welding J 21:sup448-50 O '42

Weldability of carbon-manganese steels; weld-bead hardness and weld-bead bend tests. O. E. Harder and C. B. Voldrich. il diags Welding J 21:sup450-66 O '42

Weldability of steels. W. H. Bruckner. il Welding J 21:sup55-9 Ja '42

Weldability tests of carbon-manganese steels. C. E. Jackson, M. A. Pugacz and G. G. Luther. il Welding J 21:sup477-84 O '42

Welded ladles for open-hearth service. F. L. Lindemuth. il Steel 109:74, 76-7 N 24 '41

Welded oil circuit breaker tanks reveal advantages. il Elec W 118:1300 O 17 '42

Welded steel lighter than aluminum castings; printing presses. diags Product Eng 13:188-9 Ap '42

Welding chromium steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. bibliog il diags Welding J 21:sup353-84, sup389-415 Ag-S '42

Welding design saves steel. A. F. Davis. il Welding J 21:266-70 Ap '42

Welding flux for sulphur contaminated steels. I. Bencowitz. il Welding J 21:sup237-41 My '42

Welding in the aircraft industry. F. M. Smith. il diag Welding J 21:23-32 Ja '42

Welding of light gage stabilized stainless steel. S. L. Rich. il diags Welding J 21:sup265-8 Je '42

Welding of 2-inch square reinforcing bars for piers of Pit River bridge. R. Sailer. il diags Am Concrete Inst J 14:53-8 S '42

Welding stainless pressure vessels. G. H. Sandberg. il Am Mach 86:293-5 Ap 2 '42

Welding steel propeller blades; abstract. C. A. Liedholm. Iron Age 150:52 O 22 '42

Welding substitute steels. H. Lawrence. diags Steel 111:60, 63 Ag 31 '42

What happens when you weld steel? P. E. Timmerman. Welding J 21:315-16 My '42

Yoder automatic tube welder. A. Kellock. il Metal Prog 41:683-4 My '42

See also

Steel, Structural—Welding

Steel construction—Welding

STEEL, Aircraft

Air corps seeks to bolster critical materials situation. D. R. James. il Iron Age 150:105-6+ O 22 '42

Aircraft and engines; materials. G. F. Titterton. il Metals & Alloys 15:65-6 Ja '42

Aircraft armor made faster, tougher; Breeze process. il Aviation 41:120-2 S '42

Aircraft fuselage panels of expanded steel. W. F. Sherman. il Iron Age 150:49-54 S 17 '42

Aircraft stainless steels; government specifications. Aviation 41:151, 153 Ag '42

Arc welding applications. E. W. P. Smith. il Aero Digest 41:180, 182+ S '42

Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9:213-19 Ap '42

Carburized armor plate for aircraft; liquid carburizing and press quenching; Breeze corp. il Iron Age 148:56-8 N 13 '41

Cold-rolled stainless steels. R. Franks and W. O. Binder. bibliog il diags Aero Digest 41:213-14, 219-20+ Jl '42; Same. Mech Eng 64:589-98 Ag '42

Crack sensitivity of welded aircraft steel. J. G. Ball. Metal Prog 41:213+ F '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74, 76+ Mr 16 '42

Experiments with low-alloy high-tensile steel sheets for trainer plane fuselages are encouraging. Steel 110:60, 63 Ap 13 '42

Flash butt welding of chrome-molybdenum steel. W. S. Evans and V. V. Netchvolodoff. il diags J Aeronautical Sci 9:207-12 Ap '42

Ford experiments with steel castings for aircraft. il Steel 111:60 Jl 20 '42

Gas and resistance welding the aircraft alloy SAE X-4130. H. Lawrence. il Steel 109:84-5, 88, 90+ N 17 '41

Government specifications for aircraft carbon and alloy steel; tabulation. Iron Age 149:63-5 F 19 '42

Government specifications for aircraft stainless steel; tabulations. Iron Age 149:62 F 19 '42

High manganese austenitic steels. R. Franks, W. O. Binder and C. M. Brown. bibliog Iron Age 150:51-7 O 1 '42

STEEL, Aircraft—*Continued*

Low-alloy, low-carbon steel in aircraft construction. W. F. Sherman and T. C. Campbell. il Iron Age 150:62-7 Jl 2 '42

Low carbon low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:191-2, 195-6, 199+ Jl; 230, 235-6, 239-40+ S; 145-6, 148, 150 N '42

Management control of design and welding of aircraft steels. J. P. Dods. il diags Welding J 20:787-92 N '41

Metallurgy of aircraft engines; German report on captured airplanes. Iron Age 148:33-40 D 25 '41

National emergency alternates for alloy steels; report by American iron and steel institute. Metal Prog 41:342-4, 347-9 Mr '42

New aero national emergency steels devised to expedite production and conserve scarce alloys; with tables. S A E J 50:sup18-20 S '42; Same. Steel 111:78, 80, 82 S 7 '42

Progress report on the use of flash welding as a means of fabricating aircraft structural parts from X-4130 steel. R. P. Della-Vedowa. il diags Welding J 21:sup421-6 S '42; Same. Steel 111:80-2, 93 D 21 '42

Review of present-day welding of aircraft steels. A. J. Williamson. il J Aeronautical Sci 9:350-4 Jl '42

Stainless steel wire in aircraft; abstract. J. K. Findley. Metals & Alloys 15:170+ Ja '42

Steel aircraft materials and applications. 75p pa 50c Carnegie-Illinois steel corp, box 176, Carnegie bldg, Pittsburgh '42

Steel and wood design for North American combat training planes. il Automotive & Aviation Ind 86:34-5+ My 1 '42

Suitability of alternate steels for aircraft parts. A. C. Willis and M. Hill. Metal Prog 42:370-5 S '42

Surface hardening of stainless steels. E. A. Malcolm. il diag Aero Digest 40:172, 174, 177+ F '42

Training planes built with low alloy steel; plywood fuselage. il Iron Age 149:68A-68C Ap 2 '42

Use of steel and wood conserves aluminum. il Aero Digest 40:127-8, 130+ My '42; Abstract. Metals & Alloys 15:1048+ Je '42

Welding chromium steels; welding aircraft Cr-Mo steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. Welding J 21:sup390-403 S '42

Testing

Magnetic inspection of aircraft steels. R. L. Fitch. diags Aero Digest 41:178+ Jl '42

Metallographic investigations and bending fatigue tests on welded thin plates of high tensile steel. R. Mailänder, W. Szubinski and H. J. Wiester. diags Welding J 21:sup30-3 Ja '42

Residual method of magnaflux testing. M. L. Mages. il Aviation 41:118-20+ Ag '42

Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9:419-38 S '42

STEEL, Automobile

Alloy steels of interest to the automobile industry. Automobile Eng 31:451-4 D '41

Amola steels (carbon-molybdenum). F. E. McCleary. charts Metal Prog 42:386-9 S '42

Lead-bearing steels. Automobile Eng Extra no 31:386-8 N 6 '41

National emergency alternates for alloy steels; report by American iron and steel institute. Metal Prog 41:342-4, 347-9 Mr '42

Steel and the engineer. il Automobile Eng Extra no 31:374-8 N 6 '41

STEEL, Brass-clad

Recovery of gilding metal from clad steel; cupric ammonium carbonate leaching. A. J. Thompson. il Iron Age 150:51-3 N 12 '42

War metallurgy group reports on salvaging brass-clad steel scrap. Steel 111:37 O 19 '42

STEEL, Bullet proof

Manufacture of bullet-proof steel. A. G. Arend. diags Electrician 129:119-21 Jl 31 '42

STEEL, Clad

Follansbee starts clad steel production. il Iron Age 149:56 Ap 16 '42

Manufacture of alloy-clad sheets; Follansbee steel corp., manufactures copper and cupronickel clad steel. il Steel 110:82 Ap 20 '42

See also

Steel, Brass-clad
Steel, Nickel clad
Steel, Stainless clad

STEEL, Cold working of

Cold-finishing steel bars and shafting. il Blast F & Steel Pl 30:568-9+ My '42

Cold-rolled stainless steels. R. Franks and W. O. Binder. bibliog il diags Aero Digest 41:213-14, 219-20+ Jl '42; Same. Mech Eng 64:589-98 Ag '42

Crystal structure in steel and the effect of hot and cold work. A. F. Macconochie. il diags Steel 110:66-8+ F 16 '42

Effect of moderate cold-rolling on the hardness of the surface layer of 0.34-percent-carbon steel plates. H. K. Herschman. bibliog pl J Research Nat Bur Stand 29:57-67 Jl '42

Hadfield manganese steel as hard bearing metal. V. R. Farlow and L. H. McCreery. il Metals & Alloys 14:692-7 N '41

High manganese austenitic steels. R. Franks, W. O. Binder and C. M. Brown. bibliog Iron Age 150:51-7 O 1 '42

Relief of residual stress in streamline tierods. R. E. Pollard and F. M. Reinhart. bibliog pls J Research Nat Bur Stand 28:755-72 Je '42

Stress-strain characteristics of cold-rolled austenitic stainless steels in compression as determined by the cylinder test method. R. Franks and W. O. Binder. bibliog il Am Soc T M Proc 41:629-45 '41

Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9:419-38 S '42

STEEL, Corrosion resisting

Acid resistance in chemical plant; wide application of Staybrite steel. Chem Age (Lond) 47:135-6 Ag 8 '42

Available steels for the petroleum industry under present emergency conditions. A. Grodner. il Steel 111:72-3 Ag 17 '42; Same. Nat Pet N 34 pt 2:R265-6 Ag 26 '42

Conserving alloy steels in petroleum processing equipment by specifying lower alloy contents. C. L. Clark. Steel 111:86, 123-5 S 7 '42

Designations for heat and corrosion resistant alloys. E. A. Schoefer. Metal Prog 40:904-5 D '41

Pitting and its effect on the fatigue limit of steels corroded under various conditions. D. J. McAdam, jr. and G. W. Geil. bibliog il Am Soc T M Proc 41:696-731; Discussion. 732 '41

Welding chromium steels; welding heat, wear and corrosion-resistant chromium steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. bibliog Welding J 21:sup404-15 S '42

See also

Chromium nickel steel
Chromium steel
Steel, Stainless

Testing

Influence of testing conditions on rupture strength. C. L. Clark. Oil & Gas J 40:83 F 26 '42

Tests show effect on steels in cracking coil tubes of changes in chromium content. C. L. Clark. Nat Pet N 34:R147-50 My 13 '42; Excerpt. Oil & Gas J 40:48+ Mr 19 '42

STEEL, Effect of temperature on. See Steel—Testing—Temperature effects; Steel, Heat resisting

STEEL, Galvanized

Corrosion resistance of electro-galvanized steel; composite of abstracts. Metals & Alloys 15:680 Ap '42

STEEL, Galvanized—*Continued*

Galvanized steel as a power conductor. F. M. Crapo. il Elec W 118:920-3 S 19 '42

Regalvanizing welded seams; possibilities in lengthening life of welded structures made from galvanized steel. il Steel 110:64+ Je 29 '42

Sheet metal workers' catechism (cont). W. Neubecker. diags Sheet Metal Worker 33: 38+ F; 29+ Mr; 29+ My; 27+ Jl; 34+ N '42

Study of the embrittling effect of zinc upon stainless steel; effect of tobin bronze. O. H. Henry and R. W. Schroeder. il diag Welding J 21:sup287-90 Je '42

STEEL, Hardening of

Air hardening forging die inserts; abstract. H. E. Replogle. Metals & Alloys 16:760+ O '42

Alternative steels for constructional purposes. Engineer 173:435-6 My 22 '42

Anomalous hardness of welds in low alloy steels. J. H. G. Monypenny. Metal Prog 42:237-8 Ag '42

Appraisal of NE steels in terms of old types. F. B. Foley. Metal Prog 42:365-7 S '42

Bolts; material, heat treatment and physical properties. A. S. Jameson. il diag Iron Age 149:52-7+ My 14 '42

Bright hardening atmosphere readily produced from commercial gas. C. E. Peck. Metal Prog 42:599 O '42

Carbon pressure control of furnace atmospheres. J. R. Gier. il Steel 109:54+ D 22 '41

Cuts hardened steels; drill made of a new alloy material called Hardsteel. F. G. Gepfert. il Steel 111:61-2 S 28 '42

Drilling hardened parts with Hardsteel drills. L. G. Black. il Iron Age 149:54-6 F 26 '42

Durability of gears. H. D. Mansion. Engineer 173:522-4 Je 19 '42

Engineering the treatment of 155-mm. shell. R. F. Wilson. il Metal Prog 42:359-63 S '42

Extended list of national emergency steels; August 1942 release; with hardenability data. Metal Prog 42:398 S '42

Fatigue strength improved by flame treatment. O. J. Horger and T. V. Buckwalter. bibliog il diags Iron Age 148:47-53 D 18 '41

File hardness testing. J. H. Hruska. il Iron Age 150:35-9 S 24 '42

General Electric electrode-type salt-bath tool-hardening furnaces. il diags Engineering 154:27-8 Jl 10 '42

Hadfield manganese steel as hard bearing metal. V. R. Farlow and L. H. McCreery. il Metals & Alloys 14:692-7 N '41

Hardenability calculated from composition; charts. M. A. Grossman. Metal Prog 42:660 O '42

Hardenability of steel. A. E. Focke. bibliog diags Iron Age 150:37-40 Ag 20; 43-51 Ag 27; 56-9 S 3 '42

Hardenability of steel calculated from chemical composition. M. A. Grossmann. charts Metal Prog 42:80-1+ Jl '42

Hardenability of steel; dendritic segregation a factor. R. M. Parke and A. J. Herzig. il Metals & Alloys 15:241-4 F '42

Hardenability testing of low carbon steels. R. C. Frerichs and E. S. Rowland. bibliog Am Soc for Metals Trans 30:225-45; Discussion. 245-8 Mr '42

Hardening of cartridge dies and punches. R. B. Seger. il diags Metals & Alloys 15:776-8 My '42

Hardness conversion chart for steels. Metal Prog 42:723 O '42

Hardness traverses of Amola steels; charts. Metal Prog 42:389 S '42

Heat treating molybdenum high-speed steel. W. R. Breeler and W. H. Wills. il Steel 111: 95-8 O 12 '42

Heat-treatment of molybdenum high-speed steels; controlled-atmosphere furnace and salt bath methods of hardening. Mach 48: 127-8 Ja '42

How to use hardness tests. T. H. Gray. Am Mech 86:1075-8 O 1 '42

Impact specimens for hardened steel. A. S. Jameson. Metal Prog 42:376 S '42

Influence of columbium or titanium additions to 5 Cr Mo steel; hardness after air cooling and after welding. C. L. Clark. Oil & Gas J 40:39+ Ap 2 '42

Jominy end-quench hardenability tests on carbon-manganese steels. G. A. Timmons. il Welding J 21:sup467-77 O '42

Machining forged A.P. shot; centerless grinding forged bar stock. J. B. Nealey. il diags Iron Age 150:39-44 Jl 30 '42

Mechanism of steel hardening and tempering as indicated by coercive-force measurements. R. S. Dean and C. Y. Clayton. In U S Bur Mines Bul 425:335-44 '41

NE (national emergency) alloy steel data. C. M. Parker. bibliog diags Steel 111:66-8+ O 19 '42

NE (national emergency) alloys steels. C M. Parker. diags Steel 111:70-1+ Ag 3 '42

National emergency alternates for alloy steels; report by American iron and steel institute. Metal Prog 41:342-4, 347-9 Mr '42

National emergency steels NE 8600 to 8900. J. H. Jones. Metal Prog 41:793-9 Je '42

NE steels; new series added to conserve critical alloying elements; with charts. Steel 111:41-2, 76, 81 Ag 31 '42

New data for evaluating manganese-molybdenum steels. R. M. Parke, J. R. Blanchard and A. J. Herzig. il diag Metal Prog 40: 906-10 D '41

New tool shows how to save 5700 tons of steel; Tocco process hardens slugs for ball mills. H. B. Osborne. Steel 111:121 N 2 '42

Novel fixture for continuous hardening; valve tappet ends, induction hardened. il Iron Age 149:72 Ap 2 '42

Physical properties of NE carburizing steels. A. S. Jameson. Iron Age 150:58-64 S 17 '42

Properties of the new NE (national emergency) alloy steels; tables and charts. Steel 110:66-9 Je 8; 66-8, 70, 72 Je 15; 111:80-2, 84+ Jl 13; 96-7+ N 9 '42

Proposed specifications for stainless steel arc-welding electrodes for welding steels of high hardenability. diags Welding J 21:513-14 Ag '42

Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42

SAE standard procedure recommended for testing hardenability of steel. bibliog diags S A E J 50:sup15-20+ Ja '42

Standardization of hardenability tests. W. E. Jominy. diags Metal Prog 40:911-14 D '41

Straightening hardened parts; abstract. R. B. Seger and G. B. Berlien. Metals & Alloys 16:136+ Jl '42

Structure and rate of formation of pearlite. R. F. Mehl. bibliog il diags Am Soc for Metals Trans 29:813-62 D '41; Same cond. Metal Prog 40:759-65 N '41

Substitute tungsten high-speed steels. Engineering 153:167-8 F 27 '42

Tool hardening; practice, not theory. R. C. Stewart. il diags Metal Prog 42:378-83+ S '42

Transformation of retained austenite in high speed steel at subatmospheric temperatures; treatment in liquid nitrogen. P. Gordon and M. Cohen. bibliog Am Soc for Metals Trans 30:569-88; Discussion. 588-91 S '42

Trouble shooting in tool hardening. R. C. Stewart. il diags Iron Age 149:25-32 Ja 15 '42

Weld hardening and steel composition. A. Edson. bibliog diag Metals & Alloys 15: 966-71 Je '42

Weldability; cracks and brittleness under external load; hardness and microstructure; review of the literature to July 1, 1939. W. Spraragen and G. E. Claussen. bibliog(135 references) diags Welding J 20: sup561-90 D '41

STEEL, Hardening of—*Continued*

Work-hardening and ageing of steel. J. H. Andrew and H. Lee. bibliog Iron & Steel Inst J 145:153-90, pl 21-2 no 1 '42; Excerpts. Elec R (Lond) 130:593-4 My 8 '42; Engineering 153:395 My 15 '42; Discussion. Iron & Steel Inst J 145:191-211 no 1 '42; Engineering 153:395 My 15 '42

Working of national emergency steels; forging and heat-treatment. Am Mach 86:1098-1103 O 1 '42

See also

Case hardening
Steel—Aging
Steel, Heat treatment of
Steel, Quenching of

STEEL, Heat resisting

Alloy steels for high temperature service. R. F. Miller, G. V. Smith and P. A. Jennings. Metals & Alloys 16:438-41, 881-5 bibliog (p884-5) S, N '42

Available steels for the petroleum industry under present emergency conditions. A. Grodner. il Steel 111:72-3 Ag 17 '42; Same. Nat Pet N 34 pt 2:R265-6 Ag 26 '42

Conserves alloys in bolting materials; M. W. Kellogg co. Steel 111:92, 94, 97 N 2 '42

Designations for heat and corrosion resistant alloys. E. A. Schoefer. Metal Prog 40:904-5 D '41

Fabrication of carbon-molybdenum piping for high-temperature service. R. W. Emerson. bibliog il Am Soc T M Proc 41:579-604; Discussion. 605-7 '41

Heat-resisting steels. Automobile Eng Extra no 31:371-3 N 6 '41

Heat-resisting steels. G. Riedrich. Engineer 173:499-501 Je 12 '42; Abstract. Metal Prog 42:140 Jl '42

High-temperature strength characteristics available for design of cracking-still tubes. C. L. Clark. Oil & Gas J 40:33-4 Ja 8 '42

Influence of columbium or titanium additions to 5 Cr Mo steel; high-temperature physical properties. C. L. Clark. Oil & Gas J 40:72 Ap 23 '42

Influence of structure on high-temperature strength. C. L. Clark. il Oil & Gas J 41:44+ My 21; 48 Je 4 '42

Possible use of nickel molybdenum steel at high temperatures. Oil & Gas J 41:46 Je 18 '42

Resistance to furnace atmospheres of heat-resisting steels. A. G. Quarrell. Iron & Steel Inst J 144:49-54 no 2 '41; Same. Engineering 151:505-6 Je 27 '41; Abstract. Metal Prog 40:946+ D '41; Discussion. Iron & Steel Inst J 144:55-61 no 2 '41

Scaling of heat-resistant steels and alloys; abstract. G. Bandel. Iron Age 150:59 S 3 '42

Steels for high temperature steam; abstract. H. L. Solberg, G. A. Hawkins and A. A. Potter. Metals & Alloys 16:344 Ag '42

Welding chromium steels; welding heat, wear and corrosion-resistant chromium steels; review of the literature from July 1, 1937 to January 1, 1941. W. Spraragen and H. H. Chiswik. bibliog Welding J 21:sup404-15 S '42

See also

Steel—Testing—Temperature effects

Testing

Influence of testing conditions on rupture strength. C. L. Clark. Oil & Gas J 40:83 F 26 '42

STEEL, Heat treatment of

Bolts; material, heat treatment and physical properties. A. S. Jameson. il diag Iron Age 149:57-60 My 7; 52-7+ My 14 '42

Brittleness in high-chromium steels. Engineer 172:sup[Metallurgist] 43-6 D 26 '41; Abstract. Metal Prog 42:860+ N '42

Cast iron borings for steel surface protection. D. L. Ellis and J. F. Oesterle. il Iron Age 150:45-9 Jl 30 '42

Charpy tests on austempered 4140 steel. J. B. Newkirk. Metal Prog 41:90 Ja '42

Chromium-manganese-molybdenum steels. H. Cornelius and H. Krainer. Engineer 174:170 Ag 28 '42

Effect of carbide spheroidization upon the creep strength of carbon-molybdenum steel. S. H. Weaver. il Am Soc T M Proc 41:608-27; Discussion. 628 '41

Effect of grain size and heat treatment upon impact toughness at low temperatures of medium carbon forging steel. S. J. Rosenberg and D. H. Gagon. bibliog il Am Soc for Metals Trans 30:361-75; Discussion. 375-80 Je '42

Effect of over-annealing on steel. Iron Age 150:57 O 1 '42

Effect of preheating temperature upon shrinkage stresses in welded high-tensile steel plates. R. W. Leutwiler, jr. bibliog il diags Welding J 21:sup198-203 Ap '42

Effects of initial structure on austenite grain formation and coarsening. M. Baeyertz. bibliog il Am Soc for Metals Trans 30:458-88; Discussion. 488-90 Je '42

Effects of notching on strained metals. G. Sachs and J. Lubahn. Iron Age 150:34 O 8 '42

Effects of small amounts of alloying elements on graphitization of pure hypereutectoid steels. C. R. Austin and B. S. Norris. bibliog il Am Soc for Metals Trans 30:425-54; Discussion. 454-7 Je '42

Eliminates refrigeration of aircraft rivets and parts by use of new aluminum alloy composition and special heat treating procedure; heat treating aircraft armor plate. W. Grassam. il Steel 110:74, 76+ Mr 16 '42

Elimination of oxide films on ferrous materials by heating in vacuum. V. C. F. Holm. bibliog pls J Research Nat Bur Stand 28:569-79 My '42

Fabrication of carbon-molybdenum piping for high-temperature service. R. W. Emerson. bibliog il Am Soc T M Proc 41:579-604; Discussion. 605-7 '41

Fitting porcelain enamel equipment into the heat treating program. H. McQuaid. Cer Ind 39:30-1 N '42

Free-convection cooling of mild steel bars and rods; graphical time-temperature relations. J. Griswold and O. S. Jenkins. Am Soc for Metals Trans 29:1002-12 D '41

Fuel effects on controlled atmosphere furnaces. F. A. Locke. il Iron Age 149:37-40 Mr 19 '42

Furnaces and heat treatment. Metal Prog 42:591-660 O '42

Grain size control in steel. H. O'Neill. Engineer 173:158-9 F 20 '42

Graphitic steels. F. R. Bonte. il Steel 109:80, 82+ N 24 '41

Heat etching as a general method for revealing the austenite grain size of steels. O. O. Miller and M. J. Day. bibliog il diag Am Soc for Metals Trans 30:541-63; Discussion. 563-8 S '42

Heat-resisting steels. Automobile Eng Extra no 31:371-2 N 6 '41

Heat treated rails widely used in Great Britain. C. J. Allen. il diags Metal Prog 41:671-5+ My '42

Heat treating chromium-carbon stainless steels. W. C. Troy and W. E. Mahin. il Steel 110:66+ Je 22; 82, 84+ Jl 6 '42

Heat treating cold-headed products. H. Chase. il Steel 110:72, 74 Mr 2 '42

Heat treating gun tubes. Metals & Alloys 15:1004 Je '42

Heat treating high-explosive shell. J. McElgin. diags Steel 109:70, 72+ D 1 '41

Heat-treating jack parts. il Am Mach 86:296-7 Ap 2 '42

Heat treating, 1941 and current trend. L. C. Conradi. il Metals & Alloys 15:54-5 Ja '42

Heat treating tips. G. B. Berlien. Iron Age 149:68-9 Mr 12 '42

Heat-treatment of molybdenum high-speed steels; recommendations of special committee of U.S. Office of production management. Mach 48:152-4 D '41; 127-8 Ja '42

Heat treatment of steel forgings. A. F. Macconochie. il Steel 111:74-6+ Ag 17 '42

Heavy forgings of copper steel. M. L. Faure and M. Friart. Metal Prog 42:456+ S '42

Hydrogen as an alloying element in steel and cast iron. E. Houdremont and P. A. Heller. Engineer 172:sup[Metallurgist] 42-3 D 26 '41

STEEL, Heat treatment of—*Continued*

Hydrogen embrittlement produced by commercial cleaning and plating solutions. H. J. Noble. il Iron Age 148:45-52 N 27 '41; Same. Metal Finishing 40:121-7+ Mr '42

Influence of columbium or titanium additions to 5 Cr Mo steel; high-temperature physical properties. C. L. Clark. Oil & Gas J 40:72 Ap 23 '42

Influence of initial structure and rate of heating on the austenitic grain size of 0.5-percent-carbon steels and iron-carbon alloy. T. G. Digges and S. J. Rosenberg. J Research Nat Bur Stand 29:33-40, pl 1-29 Jl '42

Machining forged A.P. shot; centerless grinding forged bar stock. J. B. Nealey. il diags Iron Age 150:39-44 Jl 30 '42

Magnetic methods for determining carbon in steel. B. A. Rogers, K. Wentzel and J. P. Riott. bibliog il diags Am Soc for Metals Trans 29:969-84; Discussion. 984-6 D '41

Manufacture of high-quality low-cost steel; heterogeneity of ingots. P. J. McKimm. Steel 111:70+ S 28 '42

Materials testing and heat treating. W. A. Clark and B. Plehn. 132p bibliog(p125-7) $1.75 Harper '42

Metallurgical mysteries; faulty heat treatment causes steel failure. R. C. Stewart. il Metal Prog 41:655-6 My '42

Molybdenum high speed steels; abstract. H. J. Stagg. Metals & Alloys 15:308+ F '42

Molybdenum high speed steels and their heat treatment. L. C. Grimshaw and R. P. Kells. il Metal Prog 41:76-81 Ja '42

N-A-X 9115 high-tensile steel; brittle as-welded structure tempered by brief post heat; abstract. W. F. Hess and C. R. Schroder. Iron Age 150:47-8 O 22 '42

National emergency steels NE 8600 to 8900. J. H. Jones. Metal Prog 41:793-9 Je '42

New test shows flaws in heat-treated steel. Product Eng 13:604-5 O '42

Practical suggestions concerning the heat treatment of tool steels. J. E. Erb. il diags Iron Age 150:47-50 O 8 '42

Properties of heavy forgings. G. Sachs. bibliog(43 titles) diags Steel 110:76-7+ Ap 6 '42

Properties of the new NE (national emergency) alloy steels; tables and charts. Steel 110:66-9 Je 8; 66-8, 70, 72 Je 15; 111:80-2, 84+ Jl 13; 96-7+ N 9 '42

Relief of internal stress. Metal Prog 41:212-13 F '42

Relief of residual stress in streamline tierods. R. E. Pollard and F. M. Reinhart. bibliog pls J Research Nat Bur Stand 28:755-72 Je '42

Residual stress in SAE X4130 steel tubing. G. Sachs and C. H. Campbell. bibliog il Welding J 20:sup553-8 N '41

Resistance to furnace atmospheres of heat-resisting steels. A. G. Quarrell. Iron & Steel Inst J 144:49-54 no 2 '41; Same. Engineering 151:505-6 Je 27 '41; Abstract. Metal Prog 40:946+ D '41; Discussion. Iron & Steel Inst J 144:55-61 no 2 '41

Shell for British 75-mm. guns; S. A. Woods machine company. L. E. Blood. il Am Mach 85:1221-4 N 26 '41

Simultaneous measurement of magnetic and dilatometric changes. O. Zmeskal and M. Cohen. il diag R Sci Instr 13:346-8 Ag '42

Soft steel for plastic molds. H. C. Disston and J. K. Desmond. il Metal Prog 41:512-14 Ap '42

Some properties of phosphorus-titanium steels. G. F. Comstock. il Am Soc for Metals Trans 30:337-53; Discussion. 354-60 Je '42

Spot welding of N-A-X high-tensile steel. W. F. Hess and C. R. Schroder. il Welding J 21:sup203-8, 241-4 Ap-My '42

Straightening heat-treated parts. J. B. Froblom. il diag Steel 110:82+ Je 8 '42

Stress-strain characteristics of cold-rolled austenitic stainless steels in compression as determined by the cylinder test method. R. Franks and W. O. Binder. bibliog il Am Soc T M Proc 41:629-45 '41

Structure of pearlite. F. C. Hull and R. F. Mehl. il diags Am Soc for Metals Trans 30:381-421 bibliog(42 references, p420-1); Discussion. 421-4 Je '42

Study of dimensional and other changes in various die steels due to heat treatment. G. M. Butler, jr. il Am Soc for Metals Trans 30:191-221; Discussion. 221-4 Mr '42

Substitution of material in the war effort. E. J. Wellauer. Mach 49:226-8 N '42

Suitability of alternate steels for aircraft parts. A. C. Willis and M. Hill. Metal Prog 42:370-5 S '42

Surface structures and chemistry of heat treated 18-4-1 steel. W. A. Schlegel. il Iron Age 148:45-50 D 4; 48-59 D 11; 54-8 D 18 '41

Technical progress paces victory march. Steel 110:322, 324-5 Ja 5 '42

Temperature and manner of growth of shatter cracks in steel rails. H. B. Wishart, E. P. Epler and R. E. Cramer. bibliog il Am Soc for Metals Trans 30:592-601; Discussion. 601-6 S '42

Testing for under-surface flaws. Iron Age 150:67 Jl 2 '42; Same. Blast F & Steel Pl 30:902 Ag '42

Time control chart; heat treatment of S.A.E. X4130, X4135, X4340-tubing; data sheet. Aviation 41:161 O '42

Tool plant converted to aircraft parts manufacture. G. E. Stedman. il Steel 110:62-4, 66 Ap 27 '42

Tool steels; selection and application to secure optimum results. D. Taylor. il Automobile Eng 32:347-50 S '42

Treated steels replace scarce alloys. W. C. Hirsch. Automotive & Aviation Ind 86:44+ My 1 '42

Tunnel kilns found suitable for heat-treating armor plate. Brick & Clay Rec 100:17 My '42

Typical stress-strain curves; S.A.E. x4130-tubing; data sheet. Aviation 41:163 O '42

Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. il diags Machine Design 14:70-4+ S; 69-73 O; 82-6 N; 91-5 D '42 (to be cont)

Working of national emergency steels; forging and heat-treatment. Am Mach 86:1098-1103 O 1 '42

You don't need a special furnace to anneal or heat-treat metals. G. B. Berlien. il diag Cer Ind 39:62+ Ag '42

See also

Annealing
Electric furnaces, Heat treating
Electric furnaces, Steel making
Furnaces, Heat treating
Steel, Quenching of

STEEL, Molten

Determining tapping temperatures by the spoon test; training open-hearth crews facilitated by moving picture camera. A. G. Arend. il Steel 111:104, 108+ Jl 6 '42

Ladle cooling of liquid steel. T. Land. diag Iron & Steel Inst J 144:157-68 no 2 '41; Abstract. Metal Prog 41:191+ F '42; Discussion. Iron & Steel Inst J 144:169-82 no 2 '41

Measuring the fluidity of cast steel. H. F. Taylor and E. A. Rominski. il diags Iron Age 148:40-4 N 27 '41

Rapid temperature measurements of molten iron and steel with an immersion thermocouple. F. Holtby. il diags Am Soc for Metals Trans 29:863-75; Discussion. 875-80 D '41

Temperature distribution in the liquid steel in various steel-making furnaces. D. A. Oliver and T. Land. il diags Blast F & Steel Pl 30:997-1002 S '42; Same. Iron & Steel Inst J 145:245-59, pl 25 no 1 '42; Excerpts. Elec R (Lond) 130:654-5 My 22 '42; Discussion. Iron & Steel Inst J 145:260-77 no 1 '42; Engineering 153:394 My 15 '42

Third report of the liquid-steel temperature sub-committee of the committee on the heterogeneity of steel ingots. Iron & Steel Inst J 145:213-43, pl 23-4 no 1 '42; Abstract. Engineering 153:356-7 My 1 '42; Discussion. Iron & Steel Inst J 145:260-77 no 1 '42

STEEL, Nickel clad

Handling of Ni-clad steel. J. V. Kielb. diags Welding J 20:784-6 N '41

STEEL, Powdered

Quenching powdered metal. N. J. Petch. Metal Prog 42:233 Ag '42

Sintered parts; progress in fabrication from compressed porous powders. Automobile Eng 32:266-8 Jl '42

Stainless steel powder; abstract. J. Wulff. Metals & Alloys 14:726+ N '41

STEEL, Quenching of

Application of oscillograph to determination of cooling rates of quenched steels. C. R. Austin, R. M. Allen and W. G. Van Note. bibliog il diags Am Soc for Metals Trans 30:747-73; Discussion. 773-5 S '42

Carburized armor plate for aircraft; liquid carburizing and press quenching; Breeze corp. il Iron Age 148:56-8 N 13 '41

Cold heading die quenching fixture. H. C. Griggs. diags Iron Age 150:53 Jl 16 '42

Controlled oil quenching. diag Chem Age (Lond) 46:127-8 Mr 7 '42

Cooling power of quenching baths; chart. M. Asimow and M. A. Grossmann. Metal Prog 42:622 O '42

Effect of carbon content and cooling rate on the decomposition of austenite during continuous cooling of plain carbon steels. R. F. Thomson and C. A. Siebert. bibliog il diags Am Soc for Metals Trans 30:27-43; Discussion. 43-6 Mr '42

Hardenability of steel. A. E. Focke. bibliog diags Iron Age 150:37-40 Ag 20; 43-51 Ag 27; 56-9 S 3 '42

Heat treating high-explosive shell. J. McElgin. diags Steel 109:70, 72+ D 1 '41

Hot-quenching of high-speed steel. R. H. McCarthy. bibliog il diags Mech Eng 64:201-4 Mr '42; Abstract. Metals & Alloys 15:864+ My '42

Martensite thermal arrest in iron-carbon alloys and plain carbon steels; helium gas as quenching medium. A. B. Greninger. bibliog il diag Am Soc for Metals Trans 30:1-26 Mr '42

Properties and structures of case hardened steel affected by cooling practice after carburizing. O. W. McMullan. il Am Soc for Metals Trans 29:913-28; Discussion. 929-36 D '41

Quenched austenitic 18-8 (nitrogen free) changes to ferrite at 70°F.; magnetic delay. H. H. Uhlig. Metal Prog 42:391 S '42

Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42; Abstract. Metals & Alloys 16:1120+ D '42

Quenching powdered metal. N. J. Petch. Metal Prog 42:233 Ag '42

Theory of quenching. J. H. Awbery. diag Iron & Steel Inst J 144:119-26 no 2 '41

STEEL, Reinforcing

Bond of flat steel reinforcing. H. J. Gilkey. Am Concrete Inst J 13:357-8 F '42

How WPB limitation order L-211 affects concrete reinforcing steel. Concrete 50:6 N '42

Influence of steel grade upon strength and deflections of reinforced concrete beams; abstract. E. Suenson. Am Concrete Inst J 13:188-9 N '41

New ways to save steel in concrete. il Arch Rec 91:59-60 F '42

Price order on concrete bars raises important questions. Iron Age 149:102-5 Je 18 '42

Reinforcing bar standards reduced. Eng N 129:298 Ag 27 '42

Saving reinforcing steel by balancing the design. A. J. Boase. diags W Soc E J 47:195-202 O '42

Saving reinforcing steel by rationalizing safety factors. A. J. Boase. Eng N 128:785-7 My 7 '42; Discussion. M. Hirschthal. 128:900-1 Je 4 '42

Saving steel in concrete. C. M. Siquot. Eng N 129:9 Jl 2 '42

Saving steel in reinforced concrete design. R. L. Bertin. Am Concrete Inst J 13:281-7 F '42; Discussion. 13:sup288^{1}-288^{35} Ap '42

Saving steel on heavy-duty concrete pavements by simplified design procedure. A. A. Anderson. diags Roads & Bridges 80:30-1+ Ag '42

Some experience with prestressed steel in small concrete units. R. E. Dill. diag Am Concrete Inst J 13:165-8 N '41

Welding of 2-inch square reinforcing bars for piers of Pit River bridge. R. Sailer. il diags Am Concrete Inst J 14:53-8 S '42

Wire saves steel in concrete joists. il diags Eng N 128:930-2 Je 4 '42

See also

Concrete, Reinforced

Testing

Bond stress in concrete pull-out specimens. D. Watstein. il diags Am Concrete Inst J 13:37-50 S '41; Discussion. 13:sup52^{1}-52^{3} Je '42

STEEL, Sheet. See Sheet steel

STEEL, Stainless

Aircraft stainless steels; government specifications. Aviation 41:151, 153 Ag '42

Austenitic stainless steels in process industries. G. A. Sands. il Chem & Met Eng 49:132-5 My '42

Carburization of cracking-still tubes during service. C. L. Clark. il Oil & Gas J 40:69-70 N 27 '41

Cold-rolled stainless steels. R. Franks and W. O. Binder. bibliog il diags Aero Digest 41:213-14, 219-20+ Jl '42; Same. Mech Eng 64:589-98 Ag '42

Composition ranges of standard stainless steel type numbers; revisions of the American iron and steel institute as of Feb. 1942; tabulation. Iron Age 149:68 F 26 '42

Conservation and substitution in Cr-Ni-Fe alloys. H. A. Grove; M. A. Hunter; S. L. Hoyt. il Metal Prog 41:47-53 Ja '42

Direct-fired catenary furnace for annealing stainless steel strip. il diags Steel 110:96+ F 16 '42

Discredit film theory for stainless steel. Iron Age 150:62B Jl 30 '42

Drive to locate stainless steel begun by three agencies. Iron Age 150:88-90 O 8 '42

Electropolishing stainless steel. C. L. Faust and H. A. Pray. Steel 109:80, 82+ N 17 '41; Abstract. Iron Age 147:57-60 Je 26 '41

Elimination of oxide films on ferrous materials by heating in vacuum. V. C. F. Holm. bibliog pls J Research Nat Bur Stand 28:569-79 My '42

Fabricating stainless exhaust manifolds. H. A. Campbell. Metals & Alloys 15:980 Je '42

Ferric sulphate; recent applications to pickling stainless steel. Automobile Eng 32:289-90 Jl '42

Funnels; stainless steel saves over four tons per stack. Sci Am 166:286-7 Je '42

Government specifications for aircraft stainless steel; tabulation. Iron Age 149:62 F 19 '42

How to maintain existing stainless steel equipment. C. C. Snyder. il Rayon 23:561-2, 626-7 S-O '42

Loads and deflections of stainless-steel round-wire helical springs; data sheets. J. I. Hommel. Mach 48:197 Ap; 135 My; 133 Je '42

Metal pickling with ferric sulfate. J. O. Percival, C. P. Dyer and M. H. Taylor. bibliog il Ind & Eng Chem 33:1529-35 D '41

1,000 steel planes for South America. Business Week p86-7 N 15 '41

Recent metallurgical developments; defense program affects stainless steel. W. D. Wilkinson, jr. il Blast F & Steel Pl 30:52-4 Ja '42

Recovery of values from mixed stainless steel scrap and waste. R. H. McCormack and G. F. Kinney. flow sheet Metal Prog 42:236-7 Ag '42

Relief of residual stress in streamline tierods. R. E. Pollard and F. M. Reinhart. bibliog pls J Research Nat Bur Stand 28:755-72 Je '42

Some observations on the formation and stability of oxide films. E. A. Gulbransen. bibliog Electrochem Soc Trans 82 (preprint 19):209-21 O '42

STEEL, Stainless—*Continued*

Stainless steel developments in process industries. G. A. Sands. il Chem & Met Eng 49:88-91 Ap '42

Stainless steel fabrication simplified; R. G. Wright co. dairy equipment. R. F. Ellis. il Steel 110:94, 97+ My 11 '42

Stainless-steel lining retards corrosion of refinery vessels. Oil & Gas J 40:148+ Ap 30 '42

Stainless-steel metal hose used in aircraft. il Mach 48:158 D '41

Stainless-steel trains for increased passenger traffic. il Mach 48:180-3 Ap '42

Study of the embrittling effect of zinc upon stainless steel; effect of tobin bronze. O. H. Henry and R. W. Schroeder. il diag Welding J 21:sup287-90 Je '42

Surface hardening of stainless steels. E. A. Malcolm. il diag Aero Digest 40:172, 174, 177+ F '42

See also

Chromium nickel steel
Chromium steel
Nickel steel
Steel, Corrosion resisting

Prices

See Steel—Prices

Testing

Addition of bismuth for producing free-machining stainless steels. H. Pray, R. S. Peoples and F. W. Fink. Am Soc T M Proc 41:646-55 '41; Abstract. Steel 109:90+ D 1 '41; Discussion. il Am Soc T M Proc 41:656-8 '41

Stress-strain characteristics of cold-rolled austenitic stainless steels in compression as determined by the cylinder test method. R. Franks and W. O. Binder. bibliog il Am Soc T M Proc 41:629-45 '41

Tensile and compressive properties of some stainless-steel sheets. C. S. Aitchison and others. bibliog charts J Research Nat Bur Stand 28:499-567 Ap '42

Tensile tests of stainless steel welds at low temperatures. O. H. Henry, G. K. Wicks and B. Hirshkowitz. il diags Welding J 21:sup384-7 Ag '42

Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9:419-38 S '42

STEEL, Stainless clad

Conservation and substitution in Cr-Ni-Fe alloys; stainless clad steels. S. L. Hoyt. Metal Prog 41:51-3 Ja '42

New cladding method employs automatic carbon arc. il Steel 110:62 Mr 30 '42

Stainless clad steel; properties, fabrication, etc. Product Eng 13:35-6 Ja '42

Stainless steel arc welding techniques. E. W. P. Smith. il diags Iron Age 149:57-62 Ap 2 '42

STEEL, Strip

Active pass contours in wide strip rolling. W. J. Blenko. bibliog Blast F & Steel Pl 30:649-55+ Je '42; Excerpts. Metals & Alloys 16:304 Ag '42

Cold and hot rolled strip, Pittsburgh; prices, 1929-1941; tabulation. Steel 110:365 Ja 5 '42

Cold rolling strip steel at 3900 feet per minute; Carnegie-Illinois steel corp. J. D. Campbell and J. R. Taylor. il diag Steel 110:78, 82+ F 16; 78, 80, 82 F 23 '42

Developments in strip steel finishing lines. R. J. Wean. il Steel 110:85, 88 Ap 6 '42

Direct-fired catenary furnace for annealing stainless steel strip. il diags Steel 110:96+ F 16 '42

English steel company installs new type mill for rolling narrow strip. il Blast F & Steel Pl 30:696 Je '42

New German wide strip mill; abstract. Metals & Alloys 16:478 S '42

Röchling wide strip mill. Iron Age 150:63+ Ag 6 '42

Roll pressures in rolling steel strip. J. D. Keller. diags Steel 111:160, 162, 164+ S 14 '42

Semicontinuous pickler for cleaning 24-inch strip. il Steel 109:66-7 D 29 '41

STEEL, Structural

Alloy constructional steels. H. J. French. 294p $4 Am. soc. for metals, Cleveland '42

Alternative steels for constructional purposes. Engineer 173:435-6 My 22 '42

Carbon steel placed on same basis as silicon steel. Roads & Bridges 80:34+ Ag '42

Copper-bearing steel for heavy fabrication. F. Eberle. il Metals & Alloys 15:588-94, 758-62 Ap-My '42

Corrosion and protection of structural steel. A. M. G. Dempster. Engineering 153:17-18 Ja 2 '42

Design of structural members; first progress report of committee of structural division. Am Soc C E Proc 68:565-74 bibliog(p573-4) Ap '42

Economy in light structural steel shapes as concrete reinforcement. V. P. Saxe. il diags Concrete 50:8 My '42

Effect of the war on the structural steel industry. C. G. Conley. Roads & Bridges 80:120-1, 124+ O '42; Excerpt. Steel 111:97 O 5 '42

High-tensile steel in design. E. W. Thomas. Engineering 152:342 O 31 '41

Higher unit stresses will help conserve steel. Ind Stand 13:266 O '42

How structural designers may conserve steel. Concrete 50:6+ My '42

Multi-layer construction of thick wall pressure vessels. T. M. Jasper and C. M. Scudder. il Am Inst Chem Eng Trans 37:885-909 D '41

Paint characteristics; structural steel protection. J. H. Hesketh. Engineering 153:44-5 Ja 16 '42

Possible alternates for nickel, chromium, alloy steels. Steel 110:70, 99-100 F 9 '42

Possible alternates for nickel, chromium and chromium-nickel constructional alloy steels. 143p pa 50c Am. iron and steel inst, New York '42

Preparation of steel surfaces. S. R. J. Davison. Engineering 153:27-8 Ja 9 '42

Progress in the structural elements of buildings. T. L. Condron. diags W Soc E J 47:218-24 O '42

Protective painting of structural steel. Engineering 154:144-5, 165-6 Ag 21-28 '42

Research problems in structural steel design. F. H. Frankland. Roads & Bridges 80:110 O '42

Serrated beams make possible better steel ships. il Steel 110:88+ Ja 26 '42

Silicon held a desirable alloy. Iron Age 150:58 N 5 '42

Steel for building. Business Week p70+ O 10 '42

Steel requirements for shipbuilding. H. L. Vickery. Marine Eng 47:103-5 Mr '42

Stresses for beams revised to save steel. Iron Age 150:114 S 17 '42

Temperature and strength of structural steel. F. H. Frankland. Eng N 129:409 S 24 '42

Tubular members to save steel. H. S. Card. il Eng N 128:418-19 Mr 12 '42

WPB drafts recommendations for steel use in various mill building type. Eng N 129:599 O 29 '42

See also

Concrete, Reinforced
Freight cars, Steel
Riveting
Steel, Aircraft
Steel, Automobile
Steel, Reinforcing
Steel alloys
Steel construction

Prices

Structural shapes, Pittsburgh, 1929-1941; tabulation. Steel 110:364 Ja 5 '42

Statistics

Government work takes 70 per cent of fabricated structural steel. Steel 110:49 F 23 '42

Testing

Compression and tension tests of structural alloys. B. Johnston and F. Opila. il diag Am Soc T M Proc 41:552-70 '41; Abstract. Eng N 127:87-8 Jl 17 '41; Discussion. Am Soc T M Proc 41:571-8 '41

Fatigue tests of full thickness plates with and without butt welds. E. C. Huge. diags Welding J 21:sup507-14 O '42

STEEL, Structural—Testing—*Continued*

High manganese austenitic steels. R. Franks, W. O. Binder and C. M. Brown. bibliog Iron Age 150:51-7 O 1 '42

Physical properties of driven and undriven rivets of high-strength structural steels; progress report of the committee of the structural division on structural alloys. il diags Am Soc C E Proc 68:751-73 My '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42; Same cond. Welding J 21:sup132-60 Mr '42

Tests of cylindrical shells. W. M. Wilson and E. D. Olson. il diags Ill U Eng Exp Sta Bul 331:1-129 '41 (pa $1)

Tests show effectiveness of flame cleaning structural steel. E. A. Tice. il Steel 110: 64, 67-8 F 9 '42

Welding

Deep girders welded by automatic arc. il diag Iron Age 149:70-1 Mr 26 '42

Fabricating replacement parts, by welding structural shapes and plates. S. D. Baumer. il Steel 111:74-6 N 2 '42

Fabrication of steel girders by arc-welding. il Engineering 154:6 Jl 3 '42; Engineer 173: 543 Je 26 '42

Fatigue strength of commercial butt welds in carbon-steel plates. W. M. Wilson. il diag Welding J 21:sup491-6 O '42; Conclusions. Iron Age 150:46-7 O 22 '42

Fatigue strength of welded joints; a review of the literature from October 1936 to September 1941. W. Spraragen and D. Rosenthal. bibliog(127 references) il diags Welding J 21:sup297-348 Jl '42

Fatigue tests of full thickness plates with and without butt welds. E. C. Huge. diags Welding J 21:sup507-14 O '42

Investigation of welded connections for angle tension members. G. J. Gibson and B. T. Wake. il diags Welding J 21:sup44-9 Ja '42

Spot welding of N-A-X high-tensile steel. W. F. Hess and C. R. Schroder. il Welding J 21:sup203-8, 241-4 Ap-My '42

Spot welding of N-A-X high-tensile steel. C. R. Schroder. Welding J 21:690-4 O '42

Static and dynamic strength of structural steel welds. M. Roš. diags Welding J 21: sup254-6 My '42

Static tests of fillet and plug welds; a review of literature from 1932 to Jan. 1, 1940. W. Spraragen and G. E. Claussen. bibliog(77 references) il diags Welding J 21: sup161-97 Ap '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42; Same cond. Welding J 21:sup132-60 Mr '42

See also

Bridges—Welding operations

Steel construction—Welding

STEEL, Tool. See Tool steel

STEEL alloys

Address at American iron and steel institute round table. H. J. French. Blast F & Steel Pl 30:639-40 Je '42

Alloy constructional steels. H. J. French. 294p $4 Am. soc. for metals, Cleveland '42

Alloy-lean steels show promise. W. C. Hirsch. Automotive & Aviation Ind 87:52+ Jl 15 '42

Alloy scrap in steelmaking. C. H. Herty, jr. il Metals & Alloys 16:253-4 Ag '42

Alloy steel supply. W. C. Hirsch. Automotive & Aviation Ind 87:17-18 Ag 15 '42

Alloy steels as affected by the critical metals restrictions; abstract. E. C. Smith. Automotive & Aviation Ind 86:38 F 1 '42

Alloy steels for high temperature service. R. F. Miller, G. V. Smith and P. A. Jennings. Metals & Alloys 16:438-41, 881-5 bibliog (p884-5) S, N '42

Alloy steels of interest to the automobile industry. Automobile Eng 31:451-4 D '41

Amola steels (carbon-molybdenum). F. E. McCleary. charts Metal Prog 42:386-9 S '42

Anomalous hardness of welds in low alloy steels. J. H. G. Monypenny. Metal Prog 42:237-8 Ag '42

Available steels for the petroleum industry under present emergency conditions. A. Grodner. il Steel 111:72-3 Ag 17 '42; Same. Nat Pet N 34 pt 2:R265-6 Ag 26 '42

Boron, a new vitamin for steel and cast iron. N. F. Tisdale. il Metal Prog 41:330-1 Mr '42

Chromium and alloy steels; uses and conservation suggestions. Product Eng 13:157-8 Mr '42

Conservation and substitution in Cr-Ni-Fe alloys. H. A. Grove; M. A. Hunter; S. L. Hoyt. il Metal Prog 41:47-53 Ja '42

Conservation of alloys in the open-hearth. W. J. Reagan. il Metals & Alloys 15:740-4 My '42

Conserves alloys in bolting materials; M. W. Kellogg co. Steel 111:92, 94, 97 N 2 '42

Conserving alloy steels in petroleum processing equipment by specifying lower alloy contents. C. L. Clark. Steel 111:86, 123-5 S 7 '42

Conserving the alloying elements of light armor steels. A. F. Macconochie. il Steel 111:172-4, 177-8, 180 O 5 '42

Critical alloy shortage to force wider utilization of carbon steels. Steel 111:54-5 Jl 13 '42

Damping capacity of engineering materials. W. H. Hatfield, G. Stanfield and L. Rotherham. Engineering 153:498 Je 19 '42

Design plants for a three-year life to save alloy steels, refiners told. Nat Pet N 34: R145-6 My 13 '42

Economics of metal use; low carbon alloy steels for casehardening. F. E. McCleary. Metal Prog 40:881-3 D '41

Economy in the use of ferro-alloys. W. H. Hatfield. Engineer 174:151 Ag 21 '42

Electric furnace alloy steel made by open-hearth method; Follansbee steel corporation. Steel 111:288-9 O 5 '42

Emergency conservation of manganese. il Metal Prog 40:888-93 D '41

Extended list of national emergency steels; August, 1942 release; with hardenability data. Metal Prog 42:398 S '42

Government specifications for aircraft carbon and alloy steel; tabulation. Iron Age 149: 63-5 F 19 '42

Graphitic steels. F. R. Bonte. il diags Steel 109:80, 82+ N 24; 96+ D 1 '41

Guide to alloying elements used in steel. Iron Age 150:56-7 Ag 6 '42

High strength, low alloy steel; conference at National metal congress. Metal Prog 40: 781-3 N '41

How to identify alloy steel scrap; possibilities and limitations of spark testing. L. P. Tarasov. bibliog il Iron Age 149:39-43 Ap 16 '42

Importance of alloy-scrap segregation. C. H. Herty, jr. Mech Eng 64:452-3 Je '42

Influence of tin on alloy steels; abstracts. G. R. Bolsover and S. Barraclough. Metal Prog 42:214-15 Ag '42; Iron Age 150:52 Ag 13 '42

Lean-alloy steel; new combinations to save scarce metals. Business Week p78-9+ Je 27 '42

Lean alloys gain. Business Week p50+ Ag 29 '42

Limit use of alloy steels to be used in making hand service tools. Steel 110:40 Je 22 '42

Low alloy steel castings from available raw materials. C. H. Lorig. Metals & Alloys 14:712-17 N '41

Low carbon low alloy steel in shell type aircraft structures. E. Schmued. il Aero Digest 41:191-2, 195-6, 199+ Jl; 230, 235-6, 239-40+ S; 145-6, 148, 150 N '42

Manufacture of shell; conference at National metal congress. Metal Prog 40:783-4+ N '41

Metallurgy fights on two fronts. B. W. Corrado. Iron Age 149:102-4 Ja 1 '42

NE (national emergency) alloy steel applications. Steel 111:86 Jl 20 '42

NE (national emergency) alloy steel data. C. M. Parker. bibliog diags Steel 111:66-8+ O 19 '42

STEEL alloys—*Continued*

NE (national emergency) alloy steels. C. M. Parker. diags Steel 111:70-1+ Ag 3 '42

National emergency alternates for alloy steels; report by American iron and steel institute. Metal Prog 41:342-4, 347-9 Mr '42

National emergency gear steels. E. F. Davis. il diags Iron Age 150:45-9 Ag 6; 58-64 Ag 13 '42

National emergency steels. C. M. Parker. Metals & Alloys 16:622-9 O '42

National emergency steels expanded in sweeping revision; new specifications as released by American iron & steel institute, Aug. 14. S A E J 50:sup17 S '42; Iron Age 150:74 Ag 13 '42

National emergency steels NE 8600 to 8900. J. H. Jones. Metal Prog 41:793-9 Je '42

NE steels; new series added to conserve critical alloying elements; with charts. Steel 111:41-2, 76, 81 Ag 31 '42

National emergency steels; properties of 8000 series. Engineer 174:178-9 Ag 28 '42

New alloy steel for gears, dies, high-speed shafts, etc.; Elastuf 44. Mach 48:154-5 F '42

New extra card issued for NE steels; tabulation. Iron Age 150:149-50 N 5 '42

New series of alloy steels, made of scrap, created in ten days. Steel 111:40-1 Ag 17 '42

New standard steel classifications; current SAE steels and NE steels. Machine Design 14:150-1 O '42

New steels conserve vital alloying elements. Machine Design 14:65-6 Jl '42

Physical properties of NE carburizing steels. A. S. Jameson. Iron Age 150:58-64 S 17 '42

Possible alternates for nickel, chromium, alloy steels. Steel 110:70, 99-100 F 9 '42

Possible alternates for nickel, chromium and chromium-nickle constructional alloy steels. 143p pa 50c Am. iron and steel inst, New York '42

Prevention of cracks in welded light alloy steel. E. C. Rollason and A. H. Cottrell. Metal Prog 42:212+ Ag '42

Properties of the new NE (national emergency) alloy steels; tables and charts. Steel 110:66-9 Je 8; 66-8, 70, 72 Je 15; 111:80-2, 84+ Jl 13; 96-7+ N 9 '42

Raw materials for steel manufacturers. H. J. French. Blast F & Steel Pl 30:1146-7 O '42

Raw materials to limit alloy steel output; specifications to change. E. C. Smith. Steel 110:37 Ja 19 '42

Recent metallurgical developments; defense program affects stainless steel. W. D. Wilkinson, jr. il Blast F & Steel Pl 30:52-4 Ja '42

Reclaiming alloy steel parts. il Oil & Gas J 41:47-8 My 14 '42

Reference table of alternates and substitutes; alternates for engineering and machinery steels. H. R. Clauser, comp. Metals & Alloys 15:404 Mr '42

Relative effect of elements on alloy steels; with graphs and tables. J. Mitchell. Metal Prog 42:53-60 Jl '42

Ryerson stocks NE alloy steels. Iron Age 150:42 Jl 16 '42

Scrap piles contain valuable alloy elements; possibilities of recovering nickel. W. L. Nelson. il Oil & Gas J 40:46 D 18 '41

Secondary copper for bearings, war work and alloy steel; report by Advisory committee, National academy of sciences. il diag Metal Prog 42:221-6+ Ag '42

Segregation of alloy scrap to conserve scarce metals made mandatory. Steel 110:36+ Je 22 '42

Soft steel for plastic molds. H. C. Disston and J. K. Desmond. il Metal Prog 41:512-14 Ap '42

Some properties of phosphorus-titanium steels. G. F. Comstock. il Am Soc for Metals Trans 30:337-53; Discussion. 354-60 Je '42

Specific effects of alloys in steel; tabulation. Metal Prog 42:539 O '42

Spring steels. H. Carlson. il Product Eng 13: 2-5, 89-92, 139-41 Ja-Mr '42

Steel for war; situation of the critical alloying materials. Business Week p22+ Ja 24 '42

Steels for refinery services. W. L. Nelson. Oil & Gas J 41:44 O 1 '42

Substitute steels for national emergency. W. L. Nelson. Oil & Gas J 40:49 N 20 '41

Substitution of material in the war effort. E. J. Wellauer. Mach 49:226-9 N '42

War emergency steel-making changes refinery design. Nat Pet N 34 pt2:R199-203 Jl 29 '42

War production board issues emergency steel list. Steel 110:72 Mr 16 '42

Wear tests on ferrous alloys. O. W. Ellis. il diags Am Soc for Metals Trans 30:249-77; Discussion. 277-86 Je '42

Weld hardening and steel composition. A. Edson. biblog diag Metals & Alloys 15: 966-71 Je '42

Welding substitute steels. H. Lawrence. diags Steel 111:60, 63 Ag 31 '42

See also

Chromium molybdenum steel
Chromium nickel steel
Chromium steel
Cobalt steel
Ferroalloys
Iron alloys
Ledloy
Manganese steel
Molybdenum steel
Nickel steel
Silicon steel
Steel, Automobile
Steel, Corrosion resisting
Steel, Heat resisting
Steel, Stainless
Steel, Structural
Tool steel
Tungsten steel
Vanadium steel

Analysis

See Steel—Analysis

Testing

Compression and tension tests of structural alloys. B. Johnston and F. Opila. il diag Am Soc T M Proc 41:552-70; Discussion. 571-8 '41

STEEL barrels. See Barrels, Steel

STEEL bars

Billet cutting for steel forgings. H. E. Rockefeller. il diags Welding J 21:83-9 F '42

Clamp for lifting heavy steel bars. F. C. Hudson. il Am Mach 86:113 F 19 '42

Cold-finishing steel bars and shafting. il Blast F & Steel Pl 30:568-9+ My '42

Free-convection cooling of mild steel bars and rods; graphical time-temperature relations. J. Griswold and O. S. Jenkins. Am Soc for Metals Trans 29:1002-12 D '41

High speed cutting of shell billets. A. F. Macconochie. il Steel 109:72, 74+ D 15 '41

Seamless tube or bar stock? Am Mach 86: 767 Jl 23 '42

Steel products manual; cold finished steel bars and shafting. rev ed 49p pa 25c Am. iron and steel inst, 350 5th av, New York '42

Prices

Finished steel, 1928-1941; tabulation. Steel 110:363, 364, 365 Ja 5 '42

OPA slashes bar price for 2 agencies; calls for cost data; full text of amendment. Iron Age 150:115A-115B Jl 2 '42

Price order on concrete bars raises important questions. Iron Age 149:102-5 Je 18 '42

Semifinished steel; prices, 1929-1941; tabulation. Steel 110:361-2 Ja 5 '42

STEEL buildings

Air conditioned plant restaurants keep busy war workers up to par; unusual building design, Chicago bridge and iron co. S. R. Lewis. il plan Heating-Piping 14:279-81 My '42

Chicago, restaurant building; Chicago bridge and iron co. windowless, air-conditioned restaurant and recreation building. il diag plan Arch Forum 76:173-5 Mr '42

One of the country's unusual buildings; dome-shaped windowless restaurant and recreation center, Chicago bridge & iron co. il diag plan Sheet Metal Worker 33:49-50 Ja '42

STEEL cars. See Cars, Steel; Freight cars, Steel

STEEL castings

Acid steel melting practice. B. J. Aamodt. il Foundry 70:138-9+ Ap '42

STEEL castings—*Continued*

Applies atmospheric pressure to secure sound castings. H. F. Taylor and E. A. Rominski. il diags Foundry 70:74-7, 161-4 O '42

Atmospheric pressure and the steel casting, a new technique in gating and risering; abstract. H. F. Taylor and E. A. Rominski. Iron Age 149:57-60 Ap 30 '42

Avoiding cracked castings. Metals & Alloys 15:834 My '42

Cast bomb shells in Canadian plant. P. Dwyer. il plan Foundry 69:50-3+ D '41; 70:64-6, 134+ Ja '42

Cast engine parts; Ford motor co., ltd. il Automobile Eng Extra no 31:379-82 N 6 '41

Cast mortar shells from electric furnace steel. J. B. Nealey. il diags Iron Age 150: 47-52 Ag 13 '42

Cast steel mortar shell. E. Bremer. il Steel 110:62-4 Ja 12 '42

Casting 500-lb. aerial bombs. diags Iron Age 149:59-61 Je 4 '42

Casting high speed steel; sand and centrifugal casting methods, using permanent molds, employed at Gorham tool co. W. F. Sherman. il plan Iron Age 150:40-4 S 24 '42

Castings replace forged steel parts; Arma-Steel (graphitic steel). C. F. Joseph. il Foundry 69:54-6+ D '41

Casts steel anchors vertically. W. Bell, jr. il Foundry 70:68+ Jl '42

Conservation and substitution in Cr-Ni-Fe alloys; true economy in the use of chromium and nickel. M. A. Hunter. Metal Prog 41:49-51 Ja '42

Converter cast steel will meet requirements. C. E. Sims and F. B. Dahle. bibliog Foundry 70:88-9+ S '42; Same. Steel 111:125-6+ S 14 '42; Abstract. Metals & Alloys 16:71-7 Jl '42

Converter's place in war production. A. W. Gregg. il Foundry 70:66-7+ Mr '42; Same. Steel 110:110, 112+ My 11 '42; Abstract. Metals & Alloys 15:846+ My '42

Converting an iron foundry to make steel castings. A. W. Gregg. il Foundry 70:58-9+ Je '42

Design of cast crankshafts; abstract. E. M. Currie and R. B. Templeton. Metals & Alloys 15:1056+ Je '42

Electricity and steel; Canadian foundry produces high alloy castings. il Electrician 129: 411-12 O 16 '42

Emergency conservation of manganese. Metal Prog 40:892-3 D '41

Film-impact process for casting metals. J. M. Merle. il diag Steel 110:82, 84+ Je 22 '42

Ford experiments with steel castings for aircraft. il Steel 111:60 Jl 20 '42

Foundry operations, 1941 and current trend. E. F. Cone. il Metals & Alloys 15:48-50 Ja '42

How to machine cast armor plate. F. W. Lucht. diags Am Mach 86:1023-38 S 17 '42

Improved surface condition of cast projectiles. A. M. Portevin. diags Metal Prog 42:239-40 Ag '42

Increasing foundry production with existing equipment. D. J. Reese. il Foundry 70:106-7, 187-91 My '42

Influences of mold friction on tearing in castings; abstract. J. H. Andrew and H. T. Protheroe. Iron Age 149:69 Mr 12 '42

Internal chills used in small steel castings. C. E. Westover. il diags Foundry 69:60-1+ D '41

Keep them snagging! keeping water out of pneumatic tools used to clean steel castings. C. Blake. il Foundry 70:121+ S '42

Low alloy steel castings from available raw materials. C. H. Lorig. Metals & Alloys 14:712-17 N '41

Machinability of steel and malleable-iron castings. E. K. Smith. il Mach 48:131-3 Mr '42

Maintains quality through planning. T. West. il Foundry 70:108-9+ My '42

Malleablized steel; casting material now trade-named ArmaSteel. Product Eng 13: 471 Ag '42

Measuring the fluidity of cast steel. H. F. Taylor and E. A. Rominski. il diags Iron Age 148:40-4 N 27 '41

Metallurgist and the steel foundry. F. A. Melmoth. il Foundry 70:80-1+ S '42

Method for making a direct determination of combined carbon in cast iron and steel; abstract. J. G. Donaldson. Iron Age 149:61 Ap 30 '42

Molten metal conditions affect casting quality. F. G. Sefing. bibliog il Foundry 70:78-9+ Jl '42

More castings; cupola-converter method tests indicating foundries can relieve the shortage. Business Week p63-4 Jl 11 '42

Navy carries on experimental work; with excerpts from papers by H. F. Taylor and E. A. Rominski. P. Dwyer. il Foundry 70: 68-9+ Ag '42

Navy yard foundry develops casting technique. P. Dwyer. il Foundry 70:50-3+ Je '42

Principles and practice involved in the production of steel castings; abstract. D. Clark. Metals & Alloys 14:752 N '41

Production of uniform steel for a light castings foundry. C. H. Kain and L. W. Sanders. Engineer 174:38-40 Jl 10 '42; Same cond. Iron Age 150:101-2+ O 1 '42; Same cond. Engineering 154:95-6, 117-18 Jl 31-Ag 7 '42

Recent developments in cast metals. C. H. Lorig. Foundry 70:162-4 Ja '42

Small Bessemers may ease steel casting shortage, help foundries. W. A. Phair. il Iron Age 150:88-91 Jl 23 '42

Specifications for carbon-steel castings for manhole covers when steel is specified, based on A.S.T.M. specification A87-36 grade B. diags Am Water Works Assn J 34:1086-1101 Jl '42

Steel castings by the triplex method. A. W. Gregg. diags Iron Age 149:61-3 My 7 '42

Steel castings handbook. 503p $2 Steel founders' soc. of America, Cleveland '41

Steel castings in defense. C. L. Harrel. Steel 109:104 D 8 '41

Steel castings production. A. H. Allen. il Foundry 70:148+ Ap '42

Steel founders study ways to improve quality; abstracts of A.F.A. convention papers. Foundry 70:92, 94+ Je '42

Steel produced by the cupola-converter method; abstract. C. E. Sims and F. B. Dahle. Iron Age 150:59-60 Jl 9 '42; Same. Steel 111:86 Jl 6 '42

Tearing of steel castings. J. H. Andrew and H. T. Protheroe. Metals & Alloys 15:842+ My '42

Technical progress paces victory march. Steel 110:286+ Ja 5 '42

Time tells of cast products in war. Foundry 70:195-6 Ap '42

Titanium deoxidized steel shows good sulphide distribution. G. F. Comstock. il Foundry 70:135-6, 204-5 Ap '42

See also
Steel ingots

Standards

Emergency alternate provisions on castings specifications issued. Foundry 70:97-8, 100, 102 Ag '42

Statistics

World production of steel ingots and castings by countries, 1929-1941; tabulation. Steel 110:349 Ja 5 '42

Testing

Influence of tin on alloy steels. G. R. Bolsover and S. Barraclough. Metal Prog 42: 214-15 Ag '42

Radiography as a foundry tool. P. McCaffery. il diags Iron Age 149:45-8 My 14 '42

STEEL chimneys. See Chimneys, Steel

STEEL construction

Airplane plant roof truss innovations; Glenn L. Martin co. plant. il diags Eng N 127: 729-33 N 20 '41

Big trusses for tallest Dallas building; Mercantile bank building. il diag Eng N 128: 782-4 My 7 '42

Combined hangar and office building, Denver airport. il diag Eng N 128:402-3 Mr 12 '42

STEEL construction—*Continued*

Effect of aerial warfare on steel-framed buildings. V. G. Iden. il Steel 111:66-8+ S 21 '42

New-construction possibilities for chemical plants; Ferroglas construction. il Chem & Eng N 20:1236-7 O 10 '42

Steel bents are different in these temporary bridges; method of interlocking cap beams with H-section piles in falsework at subway job. il diags Ry Age 113:136-8+ Jl 25 '42

Steel construction. 4th ed 416p $2 Am. inst. of steel construction, 101 Park av, New York '41

Steel stress and fireproofing. G. M. Zucco. Eng N 129:620-1 N 5 '42

Stressed sheets of steel used in new structural units; Lindsay structure. il Sci Am 166:294-5 Je '42

Timber trusses with steel diagonals; aircraft plant in eastern Canada. il diag Eng N 129:589 O 22 '42

See also

Columns, Steel
Concrete, Reinforced
Concrete construction
Corrosion and anticorrosives
Girders
Riveting
Roofs, Steel
Steel, Structural
Steel buildings
Steel houses
Strains and stresses
Strength of materials
Towers, Steel

Concrete encasement

Steel piles for subaqueous work. G. G. Greulich. il diags Civil Eng 12:568-9 O '42

Design

Chart for spacing stiffeners. M. J. Marcuson. Eng N 128:207 Ja 29 '42; Correction. 128:502 Mr 26 '42

Design of lap-welded continuous beams. A. Barjansky. diags Welding J 21:388-91 Je '42

Design of structural members; first progress report of committee of structural division. Am Soc C E Proc 68:565-74 bibliog(p573-4) Ap '42

Domed building fitted to research needs; structure to house cyclotron at University of California. il diags Eng N 128:536-8 Ap 9 '42

High-tensile steel in design. E. W. Thomas. Engineering 152:342 O 31 '41

How to cut structural steel requirements by 40 per cent; welded rigid-frame construction and use of wood purlins. F. W. Mettler. il Steel 111:77-8 S 28 '42

Increasing unit stresses. B. Johnston. Eng N 128:239 F 12 '42; Discussion. 128:466-7 Mr 26 '42

Investigation of welded and riveted load-bearing stiffeners of plate girders. F. J. Evans and H. Brenman. il diags Welding J 21:sup280-5 Je '42

Maintaining full section of truss chord angles. C. S. Wilson. diag Eng N 129:445 S 24 '42; Discussion. W. R. Crabtree. 129:935 D 31 '42

New specifications for steel construction. J. Jones. Roads & Bridges 80:70+ O '42

Perforated cover plates for steel columns; compressive properties of plates having ovaloid perforations and a width-to-thickness ratio of 40. A. H. Stang and M. Greenspan. pl diags J Research Nat Bur Stand 28:687-712 Je '42

Perforated cover plates for steel columns; compressive properties of plates having ovaloid perforations and a width-to-thickness ratio of 68. A. H. Stang and M. Greenspan. diags J Research Nat Bur Stand 29:279-302, pl 1-2 O '42

Perforated cover plates for steel columns; program and test methods. A. H. Stang and M. Greenspan. bibliog diags pls J Research Nat Bur Stand 28:669-86 Je '42

Plastic theory; its application to design. J. F. Baker and J. W. Roderick. diags Welding J 20:sup558-60 N '41

Rectangular plate loaded along two adjacent edges by couples in its own plane. W. R. Osgood. J Research Nat Bur Stand 28:159-63 F '42

Report of tests on butt joints with through plate stiffeners. W. J. Krefeld and J. D. Kenney. il diags Welding J 21:sup269-79 Je '42

Rigid-frame arches for an auditorium, Denver. P. J. Foehl. il diag Eng N 128:546-7 Ap 9 '42

Sabotage in steel; increased working stress as an aid to the war effort. C. P. Disney. Roads & Bridges 80:24+ My '42

Stresses in a rectangular knee of a rigid frame. W. R. Osgood. diags J Research Nat Bur Stand 27:443-8 N '41

Tubes combined with rolled shapes in structural design. H. S. Card. il diags Iron Age 149:56-9 My 21 '42

Tubing saves steel in long trusses. H. S. Card. diags Eng N 129:37-9 Jl 2 '42

Tubular members to save steel. H. S. Card. il Eng N 128:418-19 Mr 12 '42

WPB orders unit stress of 24,000 lb. for steel design. Eng N 129:389 S 17 '42; Same. Roads & Bridges 80:128 O '42

Weight-saving vs. cost in tubular design. H. S. Card. il diags Iron Age 148:50-5 N 13 '41

Erection

A-frames aid erection of 300-ft. trusses. il Eng N 129:150-2 Jl 30 '42

Bridge travelers erect aircraft building; airplane repair buildings and hangars. il Eng N 129:108-9 Jl 16 '42

Cylinder columns carry shipyard cranes. il diags Eng N 128:324-6 F 26 '42

Economy in construction with gas fuel; gas-generated steam hoists steel girders into place. il Gas Age 89:17 Mr 12 '42

Guyless erection method; construction of a 50,000-gallon watersphere at Fall River, Wis il diags Steel 110:86, 88 My 4 '42

Study and teaching

Unique school teaches construction trade; operated by the Seattle public school system. il Eng N 128:589 Ap 16 '42

Welding

Application of the pulsation welding process in the welding of large structures. O. C. Frederick and R. P. McCants. il diags Welding J 21:321-5 My '42

Boat crane booms are welded from tubular members. il diags Steel 110:96, 99-100 My 25 '42

Calculation and graphical representation of the fatigue strength of structural joints. Welding J 21:sup87-93 F '42

Design of lap-welded continuous beams. A. Barjansky. diags Welding J 21:388-91 Je '42

Distortion and shrinkage problems in ships and other large structures. L. Grover. il diags Welding J 21:665-75, 776-81 O-N '42; Abstract. Iron Age 150:50-1 O 22 '42

Effect of preheating temperature upon shrinkage stresses in welded high-tensile steel plates. R. W. Leutwiler, jr. bibliog il diags Welding J 21:sup198-203 Ap '42

Engineering essentials for welders. H. M. Priest. il diags Welding J 21:230-51 Ap '42

Exterior ribs feature welded tank in Tulsa. il Eng N 128:614-15 Ap 23 '42

Field welding cuts weight, cost and vibration in preparation plants; with cost data. C. S. Roach. diags Coal Age 47:53-6 Mr '42

High-speed construction of Georgia home; utilizing prefabricated arc welded steel building block, or panels. il Sheet Metal Worker 32:28+ N '41

How to cut structural steel requirements by 40 per cent; welded rigid-frame construction and use of wood purlins. F. W. Mettler. il Steel 111:77-8 S 28 '42

Large I-beams welded in place. il Eng N 128:494 Mr 26 '42

Report of tests on butt joints with through plate stiffeners. W. J. Krefeld and J. D. Kenney. il diags Welding J 21:sup269-79 Je '42

STEEL construction—Welding—*Continued*

Stress concentration factors in main members due to welded stiffeners. W. R. Cherry. il diags Welding J 20:sup603-8 D '41

Tests of miscellaneous welded building connections. B. Johnston and G. R. Deits. bibliog il diags Welding J 21:sup5-27 Ja '42

Weight-saving vs. cost in tubular design. H. S. Card. il diags Iron Age 148:50-5 N 13 '41

Welded-steel reservoir with ellipsoidal roof at Tulsa, Oklahoma. il diag Engineering 154:256 S 25 '42

Welding for the repair of steel-framed buildings. diags Engineer 173:116-18 F 6 '42

Welding makes continuity in steel work advantageous. G. G. Landis. diags Welding J 20:620-1 S '41; Discussion (Continuity through welding). M. P. Korn. diags 21:17-20 Ja '42

World's tallest arc-welded stack completed in West Virginia. A. F. Davis. il Welding J 21:118 F '42

See also

Bridges—Welding operations

STEEL construction, Subaqueous

Steel piles for subaqueous work. G. G. Greulich. il diags Civil Eng 12:566-9 O '42

STEEL construction in mines

With small furnace and curved form old rails are readily bent to form steel arches; abstract. H. Blake. diag Coal Age 46:87 D '41

STEEL containers. See Containers, Steel

STEEL cutting

Abrasive-disk cutting. A. F. Macconochie. il diags Steel 110:88+ Mr 9 '42

Accurate plate cutting; abstract. H. Hughey and A. H. Yoch. Iron Age 150:51 O 22 '42

Addition of bismuth for producing free-machining stainless steels. H. Pray, R. S. Peoples and F. W. Fink. Am Soc T M Proc 41:646-55 '41; Abstract. Steel 109:90+ D 1 '41; Discussion. il Am Soc T M Proc 41:656-8 '41

Billet cutting for steel forgings. H. E. Rockefeller. il diags Welding J 21:83-9 F '42

Carbide tools for shell work. G. G. Thompson. il diags Iron Age 149:41-4 My 14 '42

Cuts hardened steels; drill made of a new alloy material called Hardsteel. F. G. Gepfert. il Steel 111:61-2 S 28 '42

Divergent tip for oxyacetylene cutting. R. F. Helmkamp. il diag Marine Eng 47:96-100 F '42

Drilling hardened parts with Hardsteel drills. L. G. Black. il Iron Age 149:54-6 F 26 '42

Handling of Ni-clad steel. J. V. Kielb. diags Welding J 20:784-6 N '41

High speed cutting of shell billets. A. F. Macconochie. il Steel 109:72, 74+ D 15 '41

High-speed milling with carbides. E. G. Moffat. il diags Am Mach 86:933-6 S 3 '42

How to cut heavy steel sections. R. B Aitchison. il diags Welding J 21:395-8 Je '42

How to machine cast armor plate. F. W. Lucht. diags Am Mach 86:1023-38 S 17 '42

How to torch-groove steel; illustrated instructions. Power 86:56 Ja '42

Lead-bearing steels. Automobile Eng Extra no 31:386-8 N 6 '41

Machinability; metallurgical factors that affect production. D. Taylor. il Automobile Eng 32:51-6 F '42

Machine flame cutting in shipbuilding. E. R. McClung and H. L. Wagener. il Welding J 21:105-11 F '42

Machining shell with carbide tools. M. F. Judkins. Mech Eng 63:859-60+ D '41

Oxyacetylene cutting speeds war production. R. F. Helmkamp and A. H. Yoch. il Welding J 21:252-5 Ap '42

Plate shear cutting loads, tapered and parallel blades, on cold mild steel; reference book sheet. J. P. Doolan. Product Eng 13:677-8 N '42

Steel milled faster with negative rake carbide cutters. il Iron Age 150:50 S 24 '42

Use more preheat for bevel-cutting. B. H. Higgs. il Welding J 20:786 N '41

Working of national emergency steels; machining. diags Am Mach 86:1104-6 O 1 '42

See also

Cutting tools

Machine tools

Metal cutting

STEEL dams. See Dams, Steel

STEEL drums. See Containers, Steel

STEEL floors. See Floors, Steel

STEEL forgings

Aircraft drop forgings. A. H. Milnes. il Steel 110:64-6+ Mr 9; 68-9 Mr 16 '42; Correction. 110:79 Mr 23 '42

Big forging for tank gun. H. Chase. il Am Mach 85:1334 D 24 '41

Cold forging process facilitates change to steel cartridge cases. Steel 111:43+ O 12 '42

Crystal structure in steel and the effect of hot and cold work. A. F. Macconochie. il diags Steel 110:66-8+ F 16 '42

Effect of grain size and heat treatment upon impact toughness at low temperatures of medium carbon forging steel. S. J. Rosenberg and D. H. Gagon. bibliog il Am Soc for Metals Trans 30:361-75; Discussion. 375-80 Je '42

Efficient forging technique; Buick Motor connecting rod caps and counter gear for transmission set. A. F. Macconochie. il Steel 111:76-8 Jl 27 '42

Fine tool finish increases tool life 2000 per cent. C. J. Wiberg and W. K. Heath. il diags Iron Age 150:33-7 Jl 23 '42

Forged pinion saves tons of steel; abstract. W. F. Rockwell. Steel 111:49 S 28 '42

Forging, 1941 and current trend. W. Naujoks. il Metals & Alloys 15:52-3 Ja '42

Forging 37-mm. high explosive shells; Portland forge & foundry co. C. C. Barrenbrugge. il Iron Age 150:54-6 N 12 '42

Handling and cooling of shell forgings. diags Mech Handling 28:272-3 D '41

Heat treatment of steel forgings. A. F. Macconochie. il Steel 111:74-6+ Ag 17 '42

Heavy forgings of copper steel. M. L. Faure and M. Friart. Metal Prog 42:456+ S '42

Important factors in forging practice. A. F. Macconochie. il diags Steel 110:60-2+, 64 F 23 '42

Increasing the efficiency of the forging furnace. A. F. Macconochie. il Steel 110:76-8, 80+ My 18 '42

Making tractor forgings; International harvester co. H. Chase. il Metals & Alloys 15:956-61 Je '42

One-shot method of forging shells. W. P. Muir. il diags Iron Age 149:43-6 F 26 '42

Production of jeeps, shells, and forgings at the Willys plant. J. Geschelin. il Automotive & Aviation Ind 87:20-5+ S 15 '42

Properties of heavy forgings. G. Sachs. bibliog(43 titles) diags Steel 110:76-7+ Ap 6 '42

Structure and properties of forgings. G. W. Birdsall. il diags Steel 110:56-8, 60, 62+ F 9 '42

Witter shell-forging process. J. H. Loux. il diags Mech Eng 64:123-9 F '42

Working of national emergency steels; forging and heat-treatment. Am Mach 86:1098-1103 O 1 '42

STEEL founders' society of America

Annual meeting, Chicago, Feb. 11-12. Foundry 70:93+ Mr '42; Steel 110:34 F 16 '42

STEEL handling

Lifting magnets for the steel industry. H. L. Wilcox. il Steel 110:82, 85-6 Ja 26 '42

Metal handling with magnets in steel plants. A. E. Lillquist. il Steel 109:58, 61+ D 22 '41

Pickling capacity increased by mechanization of materials handling system; Buffalo bolt co. il Steel 110:108+ Ap 13 '42

STEEL houses

All-welded press for steel building blocks for LeTourneau steel houses. il Engineering 152:346-7, 350 O 31 '41

STEEL houses—*Continued*

High-speed construction of Georgia home; utilizing prefabricated arc welded steel building block, or panels. il Sheet Metal Worker 32:28+ N '41

STEEL industry and trade

Hundred years with five generations; Joseph T. Ryerson & son, inc. il Paper Ind 24: 290-1 Je '42

Knotted string; autobiography of a steelmaker. H. Brearley. 198p $2.50 Longmans '42

Steel industry accomplishment; from old cannons to ship plate in 23 hours; pictures. Manuf Rec 111:26-7 O '42

Steel mission; group of American experts will study production methods in Britain. Business Week p79-80 Ag 15 '42

See also

Iron industry and trade
Rolling mills
Sheet steel
Steel—Prices
Steel, Structural
Steel using industries
Steel workers
Steel works

Coal properties

Arbitration board orders union shop in captive coal mines; Fairless dissents. Comm & Fin Chr 154:1683 D 27 '41

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 22:15-16, 22 My '42

Diminishing profits reported for steel as tax requirements rise; second quarter statements. Steel 111:40-1 Ag 3 '42

First half steel earnings lowest in three years. Steel 111:30 Ag 24 '42

Higher taxes, costs cut steel's first quarter profit 32.8 per cent. Steel 110:78 My 11 '42

How U.S. Steel earned its living, 1902-1941; tabulation. Steel 110:58 Mr 23 '42

Leading steel producers' first-half net earnings decline 40 per cent. Steel 111:40-1 Ag 10 '42

Scullin steel company 3s-6s, 1951. Comm & Fin Chr 154:1451 D 11 '41

SEC reports on smaller iron and steel companies. Comm & Fin Chr 155:2130 Je 4 '42

SEC survey reports on large steel companies. Comm & Fin Chr 154:1166 N 22 '41

Status of Otis Steel first 4½s, 1962 would be strengthened by proposed merger with Jones & Laughlin. Barron's 22:19-20 F 23 '42

Steel firms report third quarter incomes. Iron Age 150:88-9 O 29; 122-4 N 5 '42

Steel industry's sales volume up 52% in 1941, with moderate gain in profits; financial analysis of twenty-five producers. supp (table) Steel 110:68 Ap 6 '42

Steel producers increase reserves for contingencies, depreciation as war measure; reports of various companies. Steel 110:21-3 F 2 '42

Steel producers' third quarter earnings reports. Steel 111:34 O 26; 38-40 N 2 '42

Steels in strong position. H. Lawrence. Barron's 22:3 Je 15 '42

See also

Bethlehem steel corporation
Steel mergers
United States steel corporation

History

Swords and plowshares; steel, founded in wartime, brought tremendous peacetime advances. J. Early. il Barron's 22:9 Ja 26 '42

Securities

Market's appraisal of steel shares. H. Lawrence. Barron's 22:20 Ap 6 '42

Record volume for steel; position of leading stocks. Mag of Wall St 69:552-3 F 21 '42

Taxes and post-war doubts weigh heavily on steels; wide variations in earnings and dividend prospects; position of leading steel and iron stocks. Mag of Wall St 70: 500-1+ Ag 22 '42

Statistics

Allies double Axis nations in steel capacity. Iron Age 148:96 D 18 '41

Annual steel capacity and additions under expansion program; table. Steel 109:50 N 17 '41

Classification of billings of products by consuming industries for 1941 as reported by companies producing more than 97 per cent of the year's output (net tons); tabulation. Iron Age 150:103A-103B Jl 23 '42

Drive for steel's raw materials intensified as uses are curtailed. Steel 110:50+ My 11 '42

85,000,000 tons of steel this year if second-half duplicates the first. il Steel 110:49 Je 29 '42

Expansion uncertainties plague producers. T. C. Campbell. il Iron Age 149:58-63 Ja 1 '42

Flow chart of steel capacity and materials needs, to end of 1943. Steel 109:50-1 N 17 '41

Flow chart of steelmaking; productive capacities available upon completion of private and approved government expansion programs. Blast F & Steel Pl 29: [1118A] N '41

Heavy steel products lead in year's production; report of American iron and steel institute. Steel 110:53 Mr 9 '42

Industry on war footing as it enters 1942; statistical survey: index numbers and charts. Steel 110:212-19 Ja 5 '42

Iron and steel used in typical construction projects, 1936-1941; chart. For Comm W 6: 21 Mr 14 '42

Iron, steel exports and imports of principal countries, 1937-1941; tabulation. Steel 110: 349 Ja 5 '42

Metals in 1941. T. W. Lippert. il Iron Age 149:48-57, 159+ Ja 1 '42

1941 steel output 65 per cent above 1917 peak; monthly, 1940-1941; tabulation. Iron Age 149:84 Ja 15 '42

Output of finished steels set many peaks during 1941. Comm & Fin Chr 155:967 Mr 5 '42

Production of finished steel up 34.5% in 1941. Steel 110:44 F 22 '42

Shift in output of finished steel; production for sale of steel products, June and July 1940 and 1941, and Jan. and Feb. 1941 and 1942; chart. Survey of Cur Business 22:2 Ap '42

Status of steel expansion program. W. A. Hauck. Metal Prog 42:218-20 Ag '42

Steel capacity increased 628,350 tons, enough for 12 ships monthly. Steel 111:68 Ag 17 '42

Steel employment establishes record; statistics for last 4 months of 1939, for years 1940, 1941 and first 5 months of 1942. Steel 111:50 Jl 6 '42

Steel mills annual capacity at record high in 1941. Comm & Fin Chr 155:773 F 19 '42

Steel output in half year sets record; statistics for 1941 and first half of 1942; tabulation. Iron Age 150:93 Jl 16 '42

U.S. alone can produce three tons of steel for every two Axis powers can produce. Comm & Fin Chr 154:1562 D 18 '41

U.S. steel capacity 65 per cent greater than that of Axis Europe. Steel 111:74 Jl 6 '42

Use of iron and steel in construction in continental United States, 1941 and 1942; chart. For Comm W 8:28 Jl 18 '42

What can and what cannot be done in steel expansion. Metal Prog 40:915-19 D '41

See also

Steel castings—Statistics
Steel ingots—Statistics

Australia

Ferro-alloys in Australia and notes on other metallurgical developments there. F. R. Kemmer. il Electrochem Soc Trans 81 (preprint 22):341-61 Ap '42

Canada

Canada's industrial growth in '41 above any earlier 10-year period. Steel 110:429-30 Ja 5 '42

Canadian steel capacity raised 50% since 1939. Steel 110:59-60 Je 15 '42

STEEL industry and trade—Canada—*Cont.*

Government takes drastic action to make more steel available. Steel 111:105 S 14 '42

Iron and steel and their products in Canada, 1938 and 1939. 140p pa 50c Canada. Dominion bur. of statistics, Ottawa '41

90 per cent of steel in Canada now in war work. F. B. Kilbourn. Steel 110:52-3 Mr 9 '42

Steelmakers urged to make up shortage in imports from U.S. Steel 111:72+ O 12 '42

Europe

Manpower becomes most difficult problem in British war effort; European situation. V. Delport. il Steel 110:346-9+ Ja 5 '42

Material shortages hamper production in occupied countries. J. A. Horton. Steel 110: 34+ Mr 23 '42

France

France under the iron heel; wounds mainly economic. Steel 110:21-2 Ja 26 '42

Germany

Emergency production methods used by the German iron and steel industry. B. P. Planner. Min & Met 23:466 S '42

Great Britain

Bulk allocations to manufacturers for production. Engineer 172:419-20 D 12 '41

Coal economy in steel industry. Economist 143:216 Ag 15 '42

Control of iron and steel (no. 19) order; substitute steels replacing high-tungsten high-speed steels. Engineer 173:159-60 F 20 '42; Excerpts. Metal Prog 41:536 Ap '42

Iron and steel industries in 1941. Engineer 173:9 Ja 2 '42

Knotted string; autobiography of a steelmaker. H. Brearley. 198p $2.50 Longmans '41

Manpower becomes most difficult problem in British war effort; European situation. V. Delport. il Steel 110:346-9+ Ja 5 '42

New iron and steel distribution scheme. Engineer 172:333 N 14 '41

North-Lincolnshire iron and steel industry and research. J. Henderson. Iron & Steel Inst J 145:43-50 bibliog(p48-50) no 1 '42; Same, without bibliog. Engineering 153:405-6 My 22 '42; Excerpts. Engineer 173:426 My 22 '42; Blast F & Steel Pl 30:903-4 Ag '42

United steel companies annual general meeting, London. Economist 141:486 O 18 '41

War puts British steel industry to supreme test. J. A. Horton. il Steel 110:350-2 Ja 5 '42

Japan

Decade's scrap imports supply Japan with iron, steel stockpile. Steel 111:48 Ag 24 '42

Success brings Japanese industrial problems; German view. J. W. Reichert. Iron Age 150: 45 S 24 '42

U.S. monthly steel output equals Japan's yearly rate. il Iron Age 150:88 Ag 20 '42

Russia

Industrial prize of the Ukraine; can be important factor in export steel markets. P. Loboff. map Barron's 21:3 N 17 '41

Russia at war; iron and steel. Economist 142:506 Ap 11 '42

South Africa

Acute steel shortage expected in South Africa. Engineer 173:161 F 20 '42

South America

Four South American countries found suitable for steel production. il Iron Age 149: 89-90 Mr 5 '42

Southern states

South's war effort and private industry. S. A. Lauver. il Manuf Rec 111:24-5 Ja '42

United States

Address at American iron and steel institute round table. H. J. French. Blast F & Steel Pl 30:639-40 Je '42

Between the lines; steel and coal tar. K. Tator. il Chem Ind 49:616-17 N '41

Black market in steel found not so black. Iron Age 150:118 Ag 20 '42

Blast furnace; need for increased production. A. G. McKee. il Metals & Alloys 15: 40-1 Ja '42

Business behavior, 1919-1922; iron and steel and their principal users. W. F. Payne. bibliog J Business 15:sup133-93 Jl-O '42

Depleted warehouse stocks cause slowing war material production. Steel 110:46 Je 29 '42

Direct war use claims 75% of steel output. D. F. Austin. Iron Age 150:104-5 S 24 '42; Same cond. Comm & Fin Chr 156:991 S 17 '42; Same cond. Steel 111:82-3 S 14 '42

Domestic market summary, 1941. Steel 110: 354-6 Ja 5 '42

Dramatic details revealed in strip mill conversion story. il Iron Age 150:98, 100-1 Ag 6 '42

Dwindling steel warehouse stocks worry eastern manufacturers. Steel 111:105-7 Jl 20 '42

Effect of metal shortages on war. D. M. Nelson. Iron Age 150:93-5 Jl 2 '42

Expansion uncertainties plague producers. T. C. Campbell. il Iron Age 149:58-63 Ja 1 '42

Four bid as one; Four V structural steel companies. Business Week p70-1 F 7 '42

Important civilian uses curtailed; steel furnace and blast furnace capacities increase. Survey of Cur Business 22:7-9 Jl '42

Industries speeding up in greatest production race in history. B. K. Price. il Steel 110:220-5+ Ja 5 '42

Iron and steel branch as reorganized Feb. 18; chart. Steel 110:31 F 23 '42; Same. Iron Age 149:92 F 26 '42

Iron and steel developments in relation to the war emergency. W. A. Haven. il Min & Met 23:107-12 F '42; Same cond. Blast F & Steel Pl 30:76-9 Ja '42

Major industry supports general defense; importance of steel in this war. W. H. Hillyer. il Barron's 22:9 My 11 '42

Metals in 1941. T. W. Lippert. il Iron Age 149:48-57, 159+ Ja 1 '42

More complete control over steel distribution predicted; meeting of National association of purchasing agents in New York. Steel 110:32-5+ Je 1 '42

New definition of warehouses needed under priorities setup; abstract. W. Doxsey. Iron Age 149:100-1 My 14 '42

Overhauling of priority system, revision of iron and steel branch, other changes urged at hearing; defense investigating committee. Iron Age 150:95-7 Ag 13 '42

Policing steel. Business Week p18-19 Ag 22 '42

Producers directed to set aside definite tonnages for warehouses. Steel 111:47 O 12 '42

Rated steel demand in this quarter 117% over maximum production. C. Halcomb. Steel 110:42-3 My 18 '42

Raw materials to limit alloy steel output; specifications to change. E. C. Smith. Steel 110:37 Ja 19 '42

Recovery program for steel charted. Iron Age 150:118+ N 5 '42; Steel 111:58-9 N 2 '42

Replenishing steel warehouse stocks causes headaches in WPB. il Steel 111:46-7 S 21 '42

Scrap storage; a problem in steel operations. Sci Am 165:321-2 D '41

Speech before American iron and steel institute. W. S. Tower. Blast F & Steel Pl 30:636-8+ Je '42; Abstract. Steel 110:38-40 My 25 '42

Status of steel expansion program. W. A. Hauck. Metal Prog 42:218-20 Ag '42

Steel dealer grief; warehousemen's worries. Business Week p36+ O 3 '42

Steel defense committees. Iron Age 149:68-9 Ja 1 '42

Steel for ships. Business Week p28-9 Mr 21 '42

Steel for war. il Business Week p22+ My 23 '42

Steel for war; situation of the critical alloying materials. Business Week p22+ Ja 24 '42

STEEL industry and trade—United States—*Continued*

Steel in the defense economy; conclusions from report prepared for annual Congress of American industry. Automotive Ind 85:56 N 15 '41

Steel industry accomplished extraordinary feat. W. S. Tower. Steel 110:399-400 Ja 5 '42

Steel industry committed to all-out co-operation; meeting of representatives of steel mills with OPM, army, navy and lend-lease officials. Steel 109:34-5+ N 17 '41

Steel industry's scrap stocks shrink 40 per cent in eighteen months. Steel 111:49 Ag 24 '42

Steel ingot capacity increase of 9,710,000 tons is recommended. Steel 111:24-7 Jl 27 '42

Steel producers, accused by WPB; denials of priority regulations violations. Steel 110:36-7 Ap 27 '42

Steel shakeup; iron and steel branch reorganized. Business Week p16 F 28 '42

Steelworks expansion in 1941. J. D. Knox. Steel 110:262, 264-6+ Ja 5 '42

Two-year expansion equals 20% of total manufacturing facilities. Steel 110:56 Je 22 '42

Two years' expenditures for new steel facilities exceed billion. Steel 110:51-2 Mr 9 '42

WPB bars use of many steel items to civilians. Comm & Fin Chr 155:1781 My 7 '42

WPB claims steel companies violate priority provisions. Iron Age 149:79+ Ap 23 '42

WPB investigation disproves charges of black market steel operations. Steel 111:37 Ag 24 '42

War production board makes recommendations for increase in iron and steel production. Blast F & Steel Pl 30:888-91 Ag '42

WPB meeting explains how order M-126 will operate; iron and steel conservation order. Iron Age 149:85-7 My 21 '42

Weir produces; independent union points to output marks of National Steel subsidiaries. Business Week p77-8 Ap 11 '42

What can and what cannot be done in steel expansion. Metal Prog 40:915-19 D '41

See also

Steel workers

Steel works

also American steel foundries; Crucible steel company of America; Republic steel corporation; United States steel corporation; Youngstown sheet and tube company

Western states

Development of western iron and steel industry. J. R. Mahoney. map Steel 111:79, 82, 84, 100-4 S 21 '42

Steel man Kaiser. Business Week p33-4 Mr 7 '42

STEEL ingots

Apparent relations between manganese and segregation in steel ingots. J. H. Whiteley. diag Iron & Steel Inst J 144:63-77 no 2 '41; Summaries. Engineering 152:454 D 5 '41; Steel 109:56 D 22 '41; Discussion. Iron & Steel Inst J 144:78-87 no 2 '41; Engineering 152:454 D 5 '41; Steel 109:56+ D 22 '41

Forging ingot defects reduced. E. Wulffert. Iron Age 148:62 N 13 '41

Influence of turbulence on the structure and properties of steel ingots. L. Northcott. bibliog diags Iron & Steel Inst J 143:49-89, pl 1-11 no 1 '41; Summary. Iron Age 147:56 Mr 13 '41; Discussion. Iron & Steel Inst J 143:90-1 no 1 '41

Manufacture of high-quality low-cost steel; heterogeneity of ingots. P. J. McKimm. bibliog il Steel 111:68-70+ S 28; 130, 132+ O 5 '42

Manufacture of high-quality, low-cost steel; pouring practice. P. J. McKimm. bibliog il Steel 111:90, 92+ Jl 13 '42; Excerpts. Metals & Alloys 16:306 Ag '42

Relation between seasonal amplitudes and the level of production; an application to the production of steel ingots. G. S. Juliber. Am Statis Assn J 36:485-92 D '41

Saving sink-head steel; use of Lunkerit; abstract. G. G. Ostapenko. Metals & Alloys 15:1016+ Je '42

Steel and the engineer. il Automobile Eng Extra no 31:374-8 N 6 '41

Steel ingot capacity increase of 9,710,000 tons is recommended. Steel 111:24-7 Jl 27 '42

Third report of the oxygen sub-committee of the committee on the heterogeneity of steel ingots. bibliog diags Iron & Steel Inst J 143:295-387, pl 48-9; Discussion. 388-99 no 1 '41

Molds

Improving ingot mold life. Iron Age 148:58 N 13 '41

Inserts increase life of ingot mold stools. F. G. Norris. il Iron Age 149:63-4 Mr 5 '42; Same. Steel 110:82+ My 4 '42

Lighter weight cast-iron mold stool. W. W. Bergmann. il Steel 110:86 Mr 9 '42

Sugar-coated steel is new product. Blast F & Steel Pl 29:[1136] N '41

Thermal relations between ingot and mould. T. F. Russell. bibliog diags Iron & Steel Inst J 143:163-91; Discussion. 192-4 no 1; 144:289-94 no 2 '41

Statistics

Steel ingot production and operating rates, monthly, 1929-1941; tabulation. Steel 110:357 Ja 5 '42

Steel ingot production by districts; per cent of capacity; weekly statistics. Published in weekly numbers of Iron age

Steel ingot production, monthly, 1917-1941; tabulations. Iron Age 149:176-7 Ja 1 '42

Steel ingot production (open hearth, Bessemer and electric) per cent of capacity; monthly average and weekly production; graphs. Published in weekly numbers of Iron age

World production of steel ingots and castings by countries, 1929-1941; tabulation. Steel 110:349 Ja 5 '42

Testing

Examination of a high-sulphur free-cutting steel ingot. E. Gregory; J. H. Whiteley. bibliog Iron & Steel Inst J 144:9-32, pl 1-8 no 2 '41; Excerpts. Blast F & Steel Pl 29:1017-22 S '41; Abstract. Metal Prog 40:818+ N '41; Discussion. Iron & Steel Inst J 144:33-48, pl 8a no 2 '41

STEEL lining

Stainless-steel lining retards corrosion of refinery vessels. Oil & Gas J 40:148+ Ap 30 '42

STEEL mergers

Merger cushion; Jones & Laughlin considers absorption of Otis Steel. Business Week p34+ F 21 '42

New steel merger proposed; facilities of Jones & Laughlin and Otis supplement each other. Barron's 22:7 F 16 '42

STEEL metallurgy

Acid steel melting practice. B. J. Aamodt. il Foundry 70:138-9+ Ap '42

Advancements in the manufacture of open hearth steel. W. J. Reagan. il Blast F & Steel Pl 30:48-51+, 227-32 Ja-F '42

Alloy scrap in steelmaking. C. H. Herty, jr. il Metals & Alloys 16:253-4 Ag '42

Application of the spectrograph in steel plants. C. C. Nitchie. il Steel 111:82-4+ N 9 '42

Bessemer converter can be used to control the price of scrap. J. O. Griggs. il Blast F & Steel Pl 30:1123-5+ O '42

Boron, a new vitamin for steel and cast iron. N. F. Tisdale. il Metal Prog 41:330-1 Mr '42

Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles, p739-41); Discussion. 741-6 S '42

Chemistry at 1600°C. J. Chipman. Iron Age 150:53-5 O 22 '42

Conservation and substitution in Cr-Ni-Fe alloys; utilization of stainless scrap. H. A. Grove. Metal Prog 41:47-8 Ja '42

Conservation of manganese by steel makers. Metal Prog 41:647-50+ My '42

STEEL metallurgy—*Continued*

Controlled atmospheres; this book contains the papers and discussions constituting the symposium on controlled atmospheres presented before the 23d annual convention of the American society for metals, Philadelphia, Oct. 20-24, 1941. 232p $4 Am. soc. for metals, Cleveland '42

Converter cast steel will meet requirements. C. E. Sims and F. B. Dahle. bibliog Foundry 70:88-9+ S '42; Same. Steel 111:125-6+ S 14 '42; Abstract. Metals & Alloys 16:71-7 Jl '42

Converter's place in war production. A. W. Gregg. il Foundry 70:66-7+ Mr '42; Same. Steel 110:110, 112+ My 11 '42

Dry blast and production for war; air conditioning for blast furnaces. R. VD. Dunne. diag Refrig Eng 44:19-22, 58; Discussion. 58, 60 Jl '42

Effects of tin on the properties of plain carbon steel; abstract. J. W. Halley. Iron Age 150:42-4 O 22 '42

Emergency conservation of manganese. il Metal Prog 40:888-93 D '41

Emergency production methods used by the German iron and steel industry. B. P. Planner. Min & Met 23:466 S '42

Exploding the sponge iron myth in modern steelmaking practice. F. F. Foss. il Steel 111:100, 102-3+ O 12 '42

Foreign solutions for scrap deficiencies. H. Cowes. Iron Age 150:64+ Ag 6 '42

Free-cutting steels; introduction of anhydrous sulphite. E. L. Ramsey and L. G. Graper. Chem Age (Lond) 47:301 O 3 '42

Free-machining steel; abstract. J. D. Armour. Metals & Alloys 16:326 Ag '42

High-iron charges in open-hearth practice. L. B. Lindemuth. il Steel 110:88, 90, 109-12 Ap 20 '42

Higher output credited to desulfurization; abstract. G. S. Evans. Iron Age 149:98 F 26 '42

Importance of alloy-scrap segregation. C. H. Herty, jr. Mech Eng 64:452-3 Je '42

Iron and steel developments in relation to the war emergency. W. A. Haven. il Min & Met 23:107-12 F '42; Same cond. Blast F & Steel Pl 30:76-9 Ja '42

Manufacture of high-quality, low-cost steel; deoxidation. P. J. McKimm. il Steel 110:76, 78+ Mr 9 '42

Manufacture of high-quality, low-cost steel; general characteristics of steelmaking. P. J. McKimm. il Steel 110:88, 90, 93 Ap 13; 74, 76, 79 Ap 27 '42

Manufacture of high-quality low-cost steel; heterogeneity of ingots. P. J. McKimm. bibliog il Steel 111:68-70+ S 28; 130, 132+ O 5 '42

Manufacture of high-quality, low cost steel; pouring practice. P. J. McKimm. bibliog il Steel 111:90, 92+ Jl 13 '42

Metallurgist and the steel foundry. F. A. Melmoth. il Foundry 70:80-1+ S '42

More castings; cupola-converter method tests indicating foundries can relieve the shortage. Business Week p63-4 Jl 11 '42

New series of alloy steels, made of scrap, created in ten days. Steel 111:40-1 Ag 17 '42

Nitrogen for nickel in Cr-Ni steels. W. Tofaute and H. Schottky. Iron Age 148:39-43 N 13 '41

Outline of the metallurgy of iron and steel. H. K. Ihrig. 3d ed 80p bibliog(p80) Globe steel tubes co, 3839 W. Burnham st, Milwaukee '41

Production of uniform steel for a light castings foundry. C. H. Kain and L. W. Sanders. Engineer 174:38-40 Jl 10 '42; Same cond. Iron Age 150:101-2+ O 1 '42; Same cond. Engineering 154:95-6, 117-18 Jl 31-Ag 7 '42

Rapid metallurgy in war production; vs. new equipment. G. S. Evans. il Iron Age 149:31-5 Ap 23 '42

Raw materials for steel manufacturers. H. J. French. Blast F & Steel Pl 30:1146-7 O '42

Recent developments in desulphurizing cast iron. G. S. Evans. il Steel 110:82, 84, 88+ My 25 '42

Relative effect of elements on alloy steels; with graphs and tables. J. Mitchell. Metal Prog 42:53-60 Jl '42

Silicon monoxide may be important in steel making. C. A. Zapffe and C. E. Sims. bibliog il Iron Age 149:29-31 Ja 22; 34-9 Ja 29 '42

Some metallurgical developments. F. G. White. Blast F & Steel Pl 30:92-3 Ja '42

Some observations on the production and use of sulphite treated steel; abstract. E. L. Ramsey and L. G. Graper. Blast F & Steel Pl 30:363 Mr '42

Some recent trends in steel manufacture. G. A. V. Russell. Engineering 153:134-5, 155-6, 177-8, 217-18 F 13-27, Mr 13 '42

Sponge iron; an unpromising substitute for scrap in steel production. C. Williams. il Min & Met 23:467-9 S '42

Sponge iron process in the production of steel; considered not practical. il Min Cong J 28:30-1, 34-5 Ag '42

Steel and the engineer. il Automobile Eng Extra no 31:374-8 N 6 '41

Steel castings by the triplex method. A. W. Gregg. diags Iron Age 149:61-3 My 7 '42

Steel produced by the cupola-converter method; abstract. C. E. Sims and F. B. Dahle. Iron Age 150:59-60 Jl 9 '42; Same. Steel 111:86 Jl 6 '42

Steelmaking, 1941 and future outlook. F. T. Sisco. il Metals & Alloys 15:42-5 Ja '42

Technical progress paces victory march. Steel 110:311+ Ja 5 '42

Titanium deoxidized steel shows good sulphide distribution. G. F. Comstock. il Foundry 70:135-6, 204-5 Ap '42

Treated steels replace scarce alloys. W. C. Hirsch. Automotive & Aviation Ind 86:44+ My 1 '42

Use of blown metal; experiences of Weirton steel co.; abstract. J. D. Gold and S. M. Newbrender. Iron Age 149:54-5 Ap 23 '42

Use of Chrom-X in steel making. J. H. McDonald. bibliog il Metals & Alloys 15:249-53 F '42

Wartime metallurgy conserves strategic materials. R. E. Orton and W. F. Carter. bibliog il diags Machine Design 14:63-7+ Ag; 70-4+ S; 69-73 O; 82-6 N; 91-5 D '42 (to be cont)

See also

Bessemer process
Case hardening
Furnaces, Steel making
Iron metallurgy
Open hearth furnaces
Open hearth process
Steel, Hardening of
Steel, Heat treatment of
Steel alloys
Steel castings
Steel ingots
Steel works

Bibliography

List of bibliographies, special reports and translations. Iron & Steel Inst J 144:i-vi no 2 '41

Duplex process

Duplex process for the manufacture of basic open hearth steel. H. B. Emerick and S. Feigenbaum. bibliog Blast F & Steel Pl 30:521-31 My '42; Summary. Iron Age 149:55-6 Ap 23 '42

Increasing foundry production with existing equipment. D. J. Reese. il Foundry 70:106-7, 187-91 My '42

Electrometallurgy

Cast mortar shells from electric furnace steel. J. B. Nealey. il diags Iron Age 150:47-52 Ag 13 '42

Manufacture of bullet-proof steel. A. G. Arend. diags Electrician 129:119-21 Jl 31 '42

See also

Electric furnaces,
Steel making

Study and teaching

University of Pittsburgh gives war training courses. Blast F & Steel Pl 30:1155 O '42

STEEL piling. See Sheet piling

STEEL plates
Converts world's widest strip mill to plate production. il Steel 111:72-3, 110 S 7 '42
Effect of preheating temperature upon shrinkage stresses in welded high-tensile steel plates. R. W. Leutwiler, jr. bibliog il diags Welding J 21:sup198-203 Ap '42
Inventories of material are reduced when flanges are cut from plate. J. R. Morrill. il diags Nat Pet N 34 pt 2:R349-50 O 28 '42
Irvin works tops plate record by 41,000 net tons. il Iron Age 149:87-8 Je 18 '42; Same. Steel 110:36-7 Je 15 '42
New allocation plan for steel plates. Marine Eng 47:138+ Mr '42
Plate allocation plan should be applied to other products. W. S. Harms. Steel 111: 50-1 Jl 20 '42
Seamless bombs from steel plate. J. B. Nealey. il diags Am Mach 86:1117-22 O 1 '42
Steel plate production. A. I. Henderson. Metal Prog 42:256 Ag '42
Steel plates placed under complete allocation system, effective Dec. 1. Steel 109:41 D 8 '41
Steel producers asked to persuade plate users to alter specifications. Steel 110:24 F 9 '42
Tank plates, Pittsburgh; prices, 1929-1941; tabulation. Steel 110:363 Ja 5 '42
Urges use of strip mills for plates. J. Malborn. Steel 110:44 Ja 26 '42
WPB allocates tin plate, issues new steel plate priority forms. Iron Age 149:104+ F 19 '42
War production board requirements for plates. Blast F & Steel Pl 30:430 Ap '42
Weld hardening and steel composition. A. Edson. bibliog diag Metals & Alloys 15: 966-71 Je '42
See also
Armor plate

Testing

Effect of moderate cold-rolling on the hardness of the surface layer of 0.34-percent-carbon steel plates. H. K. Herschman. bibliog pl J. Research Nat Bur Stand 29:57-67 Jl '42
Effect of specimen shape and size on measured values of tensile properties. G. F. Jenks. Am Soc T M Proc 41:483-7 '41

STEEL rails. See Rails

STEEL recovery corporation
Organized to purchase and sell idle stock. Iron Age 150:104 Ag 13 '42
Recovery corporation to thaw frozen steel into war channels. Steel 111:112-13 Jl 20 '42
Scrap-getters. Business Week p58 S 12 '42
Steel recovery corp. moves to redistribute idle inventories. Steel 111:46-7 O 12 '42
Steel recovery drive gets head start. il Iron Age 150:89-91 N 12 '42
Will send inventory forms to 250,000. Steel 111:55 Ag 17 '42

STEEL research
Acid open hearth research association formed. Blast F & Steel Pl 30:645 Je '42
Carbon-oxygen equilibrium in liquid iron. S. Marshall and J. Chipman. diags Am Soc for Metals Trans 30:695-741 bibliog(43 titles, p739-41); Discussion. 741-6 S '42
Chemistry at 1600°C. J. Chipman. Iron Age 150:53-5 O 22 '42
Converter cast steel will meet requirements. C. E. Sims and F. B. Dahle. bibliog Foundry 70:88-9+ S '42; Same. Steel 111:125-6+ S 14 '42; Abstract. Metals & Alloys 16:71-7 Jl '42
Effect of manganese on the desulphurizing power of calcium silicates. F. W. Scott and T. L. Joseph. bibliog Blast F & Steel Pl 30: 425-30, 532-5+ Ap-My '42
Effects of small amounts of alloying elements on graphitization of pure hypereutectoid steels. C. R. Austin and B. S. Norris. bibliog il Am Soc for Metals Trans 30:425-54; Discussion. 454-7 Je '42
Exhibit depicts early high-speed steel research; reproduction of the Taylor-White laboratory. il Steel 111:55 Ag 10 '42
Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:7-8 Ja 10 '42
Influence of tin on alloy steels. G. R. Bolsover and S. Barraclough. Metal Prog 42:214-15 Ag '42
Influence of turbulence on the structure and properties of steel ingots. L. Northcott. bibliog diags Iron & Steel Inst J 143:49-89, pl 1-11; Discussion. 90-1 no 1 '41
North-Lincolnshire iron and steel industry and research. J. Henderson. Engineering 153:405-6 My 22 '42
Research problems in structural steel design. F. H. Frankland. Roads & Bridges 80:110 O '42
Rotating induction furnace; laboratory studies of slag-metal reactions. F. W. Scott and T. L. Joseph. il diags Metals & Alloys 15:414-19 Mr '42
Silicon monoxide may be important in steel making. C. A. Zapffe and C. E. Sims. bibliog il Iron Age 149:29-31 Ja 22; 34-9 Ja 29 '42
Some basic slag systems. R. Hay and J. White. bibliog Blast F & Steel Pl 30:446-8+ Ap '42
Some properties of phosphorus-titanium steels. G. F. Comstock. il Am Soc for Metals Trans 30:337-53; Discussion. 354-60 Je '42
Structure and rate of formation of pearlite. R. F. Mehl. bibliog il diags Am Soc for Metals Trans 29:813-62 D '41; Same cond. Iron Age 148:45-9 O 30 '41; Same cond. Metal Prog 40:759-65 N '41
Third report of the oxygen sub-committee of the committee on the heterogeneity of steel ingots. bibliog diags Iron & Steel Inst J 143:295-387, pl 48-9; Discussion. 388-99 no 1 '41
See also Acid open hearth research association

STEEL rods
Free-convection cooling of mild steel bars and rods; graphical time-temperature relations. J. Griswold and O. S. Jenkins. Am Soc for Metals Trans 29:1002-12 D '41
Pickling capacity increased by mechanization of materials handling system; Buffalo bolt co. il Steel 110:108+ Ap 13 '42
Semifinished steel; prices, 1929-1941; tabulation. Steel 110:361-2 Ja 5 '42

STEEL roofs. See Roofs, Steel

STEEL tanks. See Tanks, Steel

STEEL using industries
Decreased earnings by steel users reflect higher taxes, costs. Steel 111:65 S 7 '42
Estimate steel needs for 1942; railroads and car and locomotive builders. Ry Age 112: 262-3 Ja 24 '42
First half earnings of steel consumers down 15.5 per cent. Steel 111:66 Ag 17 '42
Shipbuilding no. 1 consumer of steel. Steel 111:43 N 2 '42
62,484,162 tons of steel consumed in 1941. Iron Age 150:100+ Jl 2 '42
War program causes sharp shifts in 1941 distribution of steel. Steel 110:50 Je 29 '42

STEEL waste
Breaking long shell steel turnings. diags Iron Age 149:65 Mr 12 '42; Steel 110:63 Mr 23 '42
Carter & Wright swarf crushing machine. il Mech Handling 29:190 O '42
Conservation of high speed tool steel from scrap. H. M. Givens, jr. Marine Eng 47:261 O '42
Galvanized scrap burned. il Iron Age 150:57 Jl 23 '42
High speed steel scrap. Mech Handling 29: 119 Je '42
Mining steel mill slag dumps for metal scraps discarded years ago. il Steel 110:59 F 16 '42
Powder metallurgy; Chevrolet bearing sleeve from sintered steel chips. H. Chase. il diags Automotive Ind 85:35+ D 15 '41
Recovery and preparation of steel scrap. F. E. Ullman. il Steel 110:75-6, 78 Je 29; 111: 97-8+ Jl 6 '42
Scrap piles offer a reserve source of nickel. Steel 109:53+ D 29 '41; Same. Oil & Gas J 40:46 D 18 '41; Same abr. Sci Am 166:281 Je '42

STEEL waste—*Continued*

Trapping the sparks to salvage alloys from grindings. il Steel 110:64 Ap 20 '42

STEEL water pipes. See Water pipes, Steel

STEEL wire. See Wire, Steel

STEEL work

New combat helmets and how they are manufactured. il Steel 111:122-3+ O 5 '42

Pressing heavy steel shapes. E. F. Cone. il Metals & Alloys 16:232-7 Ag '42

Seamless bombs from steel plate. J. B. Nealey. il diags Am Mach 86:1117-22 O 1 '42

Seamless tube or bar stock? Am Mach 86:767 Jl 23 '42

Stampings replace critical forgings in ordnance. diags Product Eng 13:630 N '42

Steelmakers' viewpoint; complaints and their origins. D. Taylor. il Automobile Eng 32:230-4 Je '42

Working of national emergency steels. Am Mach 86:1095-1106 O 1 '42

STEEL workers

Bethlehem's report to employes stresses need for peak production. E. G. Grace. il Steel 110:33+ Mr 9 '42

Camouflage says Little Steel to Davis' closed shop proposal. Steel 110:23-4 F 23 '42

Carnegie-Illinois training plan cited as model by war board. Steel 110:76 My 11 '42

CIO seeks to extend Little Steel victory throughout all industry. Steel 111:27-9 Jl 27 '42

C.I.O. vs. C.F.I.; steelworkers' vote spells the end of Colorado Fuel & Iron employee organization. Business Week p92-3 Ag 15 '42

Determining tapping temperatures by the spoon test; training open-hearth crews facilitated by moving picture camera. A. G. Arend. il Steel 111:104, 108+ Jl 6 '42

Distortion ban; NWLB acts to remedy steel union's misinterpretation of maintenance of membership clause. Business Week p30+ O 3 '42

41 cases into one; steel company wage controversies. Business Week p50 S 26 '42

Health hazards in steel mills. J. W. Fehnel. Ind Med 11:358-60 Jl '42

Industrial workers answer Uncle Sam's plea to buy. il Steel 111:38-41 O 12 '42

Inflation inevitable if wages are increased, Little Steel declares; protests to War labor board against panel's able-to-pay report. il Steel 111:46-50, 126 Jl 6 '42

Inland Steel warns of inflation if Labor board grants wage demand. Steel 110:65-7 My 4 '42; Excerpt. Iron Age 149:128+ My 7 '42

Joint labor-management committees established by steel, metals firms. Steel 110:16-17 Mr 30 '42

Little Steel case being watched for possible precedent. Iron Age 149:104-5 F 26 '42

Little Steel wage increase characterized as major defeat to price control program. Comm & Fin Chr 156:541 Ag 13 '42

Little Steel wage increase extended to Big Steel employees to be retroactive to Feb. 15. Comm & Fin Chr 156:899 S 10 '42

Little Steel's wage; Bethlehem case. Business Week p14 F 14 '42

M. of M. gains; U.S. Steel accepts NWLB decision on maintenance of membership. Business Week p36+ My 16 '42

NWLB pegs pay; Little Steel decision sets vital new policy. Business Week p80+ Jl 25 '42

No. 3 steel case; J. & L.'s resistance to the union's demands. Business Week p22+ S 19 '42

Principles of the wage award. Nat City Bank p85-7 Ag '42

Retroactive wage increase directed for U.S. Steel employes by NWLB. Steel 111:43 Ag 31 '42

Showdown approaches in Little Steel-USA wage, union shop controversy. Steel 110:26-8 Je 22 '42

Steel wage dispute subject of survey by Twentieth century fund. Comm & Fin Chr 156:180 Jl 16 '42

Testing to improve job performance; Carnegie-Illinois; abstract. E. B. Mapel. Management R 31:271-2 Ag '42

Training and education of open hearth personnel. J. S. Morris. Blast F & Steel Pl 30:869-74 Ag '42

Trouble in steel. Business Week p84-5 Mr 14 '42

U.S. Steel subsidiaries bow to NWLB directive under protest. Steel 111:42 S 7 '42

Wage increase of 5.5% authorized in Little Steel case; five guiding principles adopted. Comm & Fin Chr 156:372 Jl 30 '42

Wage inflation? War labor board weighs its Little Steel decision. Business Week p16-17 Jl 11 '42

WLB stabilizes steel wages. Steel 111:42-4+ Jl 20 '42

Way cleared for WPB to force union shop on Little Steel mills. il Iron Age 149:87-8 My 14 '42

Weir produces; independent union points to output marks of National Steel subsidiaries. Business Week p77-8 Ap 11 '42

Weirton liberalizes vacation plan; pays former employes now in service. Steel 110:58 Je 1 '42

What's itching labor? survey of opinion of workers in Pittsburgh area. il Fortune 26:100-2+ N '42

Women in steel. Economist 143:119 Jl 25 '42

Workers' melon; U.S. Steel's disbursement of retroactive pay. Business Week p90 N 7 '42

See also

Steel works—Safety measures

also United steelworkers of America

STEEL workers organizing committee (now United steelworkers of America)

Battle for union security to start with WLB hearings on SWOC-Little-Steel dispute. il Steel 110:30-1+ Mr 2 '42

Big as Bridges? expansion of S.W.O.C. on West coast. Business Week p77-8 My 9 '42

Resisting M. of M.; Inland, going own way in Little Steel fight. Business Week p75-7 My 9 '42

Test for Big Steel; S.W.O.C.'s determination to be sole bargaining agent at Gary. Business Week p68-70 D 13 '41

STEEL works

Black out plan for steel mills causes little loss in production. Steel 110:45 Je 15 '42

Emergency plant protection plan developed by Republic steel corp. Steel 110:33 Je 22 '42; Same. Nat Safety N 46:76-7 Jl '42

List of U.S. Steel expansions in 1941. Iron Age 149:83B Ja 8 '42

New steel plants cost $1.1 billions in 1941-2. Comm & Fin Chr 155:1062 Mr 12 '42

$150,000,000 Utah steel plant may be in production by late spring. Steel 111:60 O 19 '42

Steelworks expansion in 1941. J. D. Knox. Steel 110:262, 264-6+ Ja 5 '42

$26,000,000 addition to Kaiser steel plant approved by WPB. il Steel 111:41 N 2 '42

$23,000,000 expansion of Texas' new steel plant; Sheffield steel corporation. Manuf Rec 111:30+ Ja '42

See also

American steel foundries

Blast furnaces

Foundries

Rolling mills

Steel metallurgy

Steel workers

Accounting

Economic control of iron and steel works. F. L. Meyenberg. 332p 25s Chapman & Hall, London '42

Standard fuel costs for reheating furnaces. F. Ryder. bibliog Blast F & Steel Pl 29:[1112-15], 1210-12; 30:238-40, 351-5, 382-3, 441-3 N-D '41, F-Ap '42

Electric equipment

Blast furnace skip hoist operation with amplidyne exciter control. C. P. Hamilton. il diags Blast F & Steel Pl 30:1023-5 S '42

Constant voltage for ore bridge control; Inland steel company. W. M. Ballenger. diag Elec W 117:687-8 F 21 '42

Electrical developments in the steel industry during 1941. F. Mohler. il Blast F & Steel Pl 30:55-8 Ja '42

STEEL works—Electric equipment—*Continued*

Handling materials. il Elec R (Lond) 130:423-6 Ap 3 '42

Lifting magnets for the steel industry. H. L. Wilcox. il Steel 110:82, 85-6 Ja 26 '42

Steel mill applications of rectifiers. M. J. Leding. il Iron Age 149:59 Ap 9 '42

Steelworks plant; the influence of mechanical handling. il Elec R (Lond) 131:3-6 Jl 3 '42

Employees

See Steel workers

Equipment

Algoma steel corporation, ltd.; its products have promoted the industrial growth of Canada. C. Longenecker. il diags plans Blast F & Steel Pl 30:112-35 Ja '42

Application of the spectrograph in steel plants. C. C. Nitchie. il Steel 111:82-4+ N 9 '42

Bricklaying and steel plant refractories; abstracts. A. Morton. Steel 109:186-7 S 15 '41; Blast F & Steel Pl 29:1127-9 O '41; Brick & Clay Rec 100:59-60 Ja '42

Casting pit refractories. J. H. Chesters. il diags Iron Age 148:43-9 N 20; 53-8 bibliog (p58) N 27 '41

Centralized oil distribution; Union drawn steel division of Republic steel corp. il diag plan Iron Age 150:56-62 O 22 '42

Crane cab air-conditioners now highly developed; Lintern corp. il Steel 111:89 Jl 6 '42

Design of rail clamps for traveling cranes. G. F. Wolfe. il Steel 109:72, 74 N 17 '41

Hydraulic plant in steel works. R. Yeadon. diags Blast F & Steel Pl 30:1003-9 S '42

Instrumentation, 1941 and current trend. M. J. Bradley. il Metals & Alloys 15:94-6 Ja '42

Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42

Jones & Laughlin steel corporation installs air conditioning at its no. 1 blast furnace. E. K. Miller. il Heat & Ven 39:48-51 Ja '42

New oil distribution system cuts consumption, helps maintenance; Republic steel corporation. il diag Heating-Piping 14:653-6 N '42

Pipelines for shop oils; oil distribution system at Gary plant of Republic steel corporation. il plan Factory Management 100:134-7 N '42

Recovery and preparation of steel scrap. F. E. Ullman. il Steel 110:75-6, 78 Je 29; 97-8+ Jl 6 '42

Steel furnace instrumentation, with special reference to soaking-pit and open-hearth. M. J. Boho. flow chart il diags Instruments 15:167-72 My '42

Steel plant cars; their design, application and features. G. P. Astrom. il Steel 109:82, 85, 88 D 8 '41

Steel production aided by air conditioned crane cabs. H. W. Moore. il Heating-Piping 14:111-13 F '42; Same abr. Steel 110:102+ Je 15 '42

Stopper rod drying oven. H. T. Klein. il diags Steel 109:93-4 D 1 '41

Worm reduction drives for steel plant bridges. A. E. Gibson. il diags Steel 110:72, 74-5+ Ja 19 '42

Fuel

Standard fuel costs for reheating furnaces. F. Ryder. bibliog Blast F & Steel Pl 29:[1112-15], 1210-12; 30:238-40, 351-5, 382-3, 441-3 N-D '41, F-Ap '42

Lighting

Steelworks lighting; need for raising minimum standards. M. C. Toner. Elec R (Lond) 130:699-700 My 29 '42

Maintenance and repair

Building-up and hardfacing in mill maintenance. S. D. Baumer. il diags Steel 111:170, 172 S 14; 70, 72 S 21 '42

Fabricating replacement parts, by welding structural shapes and plates. S. D. Baumer. il Steel 111:74-6 N 2 '42

Power

Elimination of carryover under steel mill operating conditions. H. M. Rivers and W. P. Hill. Blast F & Steel Pl 30:1151-4 O '42

New boilers at Algoma steel corporation, ltd., plant. W. E. S. Dyer. diag Blast F & Steel Pl 30:146, 148-9 Ja '42

Safety measures

Design of rail clamps for traveling cranes. G. F. Wolfe. il Steel 109:72, 74 N 17 '41

Republic Steel divisions win safety plaques. il Nat Safety N 46:90 Jl '42

Brazil

Brazilian steel plant operates on former jungle site. il Steel 110:56-7+ Ja 19 '42

Brazil's first modern steel plant. C. H. Vivian. il plan Comp Air M 47:6852-8 O '42

Equipment for new steel mill in Brazil. Blast F & Steel Pl 30:891 Ag '42

Canada

Algoma steel corporation, ltd.; its products have promoted the industrial growth of Canada. C. Longenecker. il diags plans Blast F & Steel Pl 30:112-35 Ja '42

Mexico

American capital aids Mexican steel industry; to build new mill. Steel 111:67 Jl 13 '42

Peru

Peru to build $15,000,000 steel plant with United States loan. Steel 111:52 S 28 '42

Russia

Behind the Urals; an American worker in Russia's city of steel. J. Scott. 279p $2.75 Houghton '42

Transvaal

Progress at the new Iscor works, Pretoria. Engineer 174:326 O 16 '42

Turkey

Steel works being erected at Karabuk, Turkey. il Blast F & Steel Pl 30:647-8 Je '42

STEELMAN, John Roy, 1900-
Portrait. Business Week p14 N 29 '41

STEEPROCK lake
In the Steeprock area; résumé of geological work and iron ore exploration. E. R. Rose. bibliog Can Min J 63:292-5 My '42

STEERING gear
Applying hydraulic servo circuits in machines; steering booster for use on heavy vehicles. C. E. Grosser. diags Machine Design 14:122-4+ Ap '42
Well planned materials handling in manufacture of steam steering engines; Webster-Brinkley co. il Steel 110:83-4 Mr 9 '42

STELLAR eclipses. See Eclipses, Stellar

STELLITE
Big turbine requires only minor overhaul; stellite strips on low-pressure stages. W. F. Oberhuber. il Elec W 116:1554-5 N 15 '41
Hard-facing cams. il Iron Age 149:35 Ap 23 '42
New stellite alloy for machining steel. il Mach 48:164 Ag '42

STENCIL work
Early American wall stencils; their origin, history and use. J. Waring. rev ed 86p $3.75 William R. Scott, 72 5th av, New York '42
See also
Silk screen printing

STENOGRAPHERS

Rating

Determining stenographic salaries; abstract. F. W. Myers. Management R 30:440-1 D '41

STEPHEN, Walter B. 1876-
Pisgah forest pottery. pors Am Cer Soc Bul 21:84-6 Je 15 '42

STEPHENSON, Lyle A. 1880-1941
Sketch. por Nat Underw 45:4+ D 4 '41

STEREOCHEMISTRY

Basis of stereochemistry. W. H. Mills. pls Chem Soc J p457-66 Jl '42

Chemistry of the lignan group of natural products. R. D. Haworth. Chem Soc J p448-56 Jl '42

Contribution to the stereochemistry of diphenylpolyenes. L. Zechmeister and A. L. LeRosen. bibliog Science 95:587-8 Je 5 '42

Dipole moments as a tool in the determination of structure. E. Bergmann and A. Weizmann. Chem R 29:553-92 bibliog(201 references, p588-92) D '41

Isomerization of β-carotene; isolation of a stereoisomer with increased adsorption affinity. A. Polgár and L. Zechmeister. bibliog Am Chem Soc J 64:1856-61 Ag '42

Scientific career of William J. Pope. W. H. Mills. Chem Soc J p700-15 O '41

Stereochemistry of catalytic hydrogenation. R. P. Linstead and others. bibliog Am Chem Soc J 64:1985-2026 S '42

Stereochemistry of the enols and di-enols of 2-*t*-butyl-1, 4-dimesitylbutanedione-1, 4; a proof of 1,4-reduction of an α-bromoketone. R. E. Lutz and W. G. Reveley. Am Chem Soc J 63:3180-9 N '41

Structure and configuration of resin acids; podocarpic acid and ferruginol. W. P. Campbell and D. Todd. bibliog Am Chem Soc J 64:928-35 Ap '42

Structure of diacetone-L-fucitol (2,3,4,5-di-isopropylidene-L-fucitol). A. T. Ness, R. M. Hann and C. S. Hudson. Am Chem Soc J 64:982-5 Ap '42

Studies in stereochemistry; steric strains as a factor in the relative stability of some coördination compounds of boron. H. C. Brown, H. I. Schlesinger and S. Z. Cardon. bibliog il Am Chem Soc J 64:325-9 F '42

See also

Atoms
Chemistry, Physical and theoretical
Isomerism
Molecular rearrangements
Molecules

STEREOISOMERISM. See Isomerism

STEREOPHONIC sound-film system. See Sound—Recording and reproducing

STEREOSCOPIC photography. See Photography, Stereoscopic; Slide films, Stereoscopic

STEREOTYPING

New history of stereotyping. G. A. Kubler. 362p gratis Certified dry mat corp, 9 Rockefeller plaza, New York '41

STERIC hindrance

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; compounds derived from the bromomagnesium enolates of alkyl dineopentylcarbinyl ketones. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1251-3 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the dineopentylcarbinyl group. F. C. Whitmore and C. T. Lester. bibliog Am Chem Soc J 64:1247-51 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; ketones containing the methyl-*t*-butylneopentylcarbinyl group and their bromomagnesium enolates. F. C. Whitmore and D. I. Randall. bibliog Am Chem Soc J 64:1242-6 Je '42

Abnormal Grignard reactions; sterically hindered aliphatic carbonyl compounds; methyl triethylcarbinyl ketone and its bromomagnesium enolate. F. C. Whitmore and C. E. Lewis. Am Chem Soc J 64:1618-19 Jl '42

Acetylenic analog of neopentyl bromide; evidence that the hindrance to displacement reactions in neopentyl halides is steric in nature. P. D. Bartlett and L. J. Rosen. bibliog il Am Chem Soc J 64:543-6 Mr '42

Grignard reactions; sterically hindered aliphatic carbonyl compounds; enolization studies. F. C. Whitmore and L. P. Block. bibliog Am Chem Soc J 64:1619-21 Jl '42

Mechanism of oxidative fission of the furan nucleus; furans with steric hindrance by one α-aryl group. R. E. Lutz and W. P Boyer. Am Chem Soc J 63:3189-92 N '41

New acid synthesis; the effect of hindrance; methyl tertiary-butyl- and methylethylpropylacetic acids. J. G. Aston and others. Am Chem Soc J 64:300-2 F '42

Raman spectra evidence for hindrance of resonance by ortho substitution. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 63:3121-3 N '41

Reduction of dipole moment by steric hindrance in di-*t*-butylhydroquinone and its dimethyl ether. P. F. Oesper, C. P. Smyth and M. S. Kharasch. bibliog Am Chem Soc J 64:937-40 Ap '42

Resonance and the hindered carbonyl-Grignard reaction. R. T. Arnold, H. Bank and R. W. Liggett. bibliog Am Chem Soc J 63:3444-6 D '41

Studies in stereochemistry; steric strains as a factor in the relative stability of some coördination compounds of boron. H. C. Brown, H. I. Schlesinger and S. Z. Cardon. bibliog il Am Chem Soc J 64:325-9 F '42

STERILAMPS. See Ultraviolet rays—Lamps

STERILIZATION

Aerosol sterilization of air-borne bacteria. A. E. Williamson and H. B. Gotaas. bibliog Ind Med 11:40-5 Ja '42

Germ killers; ultra-violet lamps put to more new uses. il Sci Am 167:202 N '42

Self-sterilizing surfaces; compounding of silver with resins. A. Goetz, R. Tracy and S. Goetz. Science 95:537-8 My 22 '42

Tests reveal faulty retorting practices; pork luncheon meat. O. F. Ecklund, H. L. Roberts and H. A. Benjamin. il Food Ind 14:62-4 Ap '42

See also

Disinfection and disinfectants

STERILIZATION of criminals and defectives

Oklahoma statute held unconstitutional. Pub Health Rep 57:1075-7 Jl 17 '42

Sexual sterilization; statute held unconstitutional; Washington Supreme court. Pub Health Rep 57:1516-18 O 2 '42

STERILIZERS

Plug welding replaces staybolts; sterilizer units used by hospitals. il diags Iron Age 149:52 Mr 12 '42

STERILIZERS, Electric

Utensil sterilizer rated at 1½ kw. J. E. Nichols. il Elec W 117:1704-6 My 16 '42

STERLING insurance company of Chicago

Planning to enter agency field. Nat Underw 46:23 My 28 '42; Same. Nat Underw (Life ed) 46:8 My 29 '42

STERLING products, inc. (now Sterling drug, incorporated)

Annual report. Comm & Fin Chr 155:1022 Mr 9 '42

Assured business in war and peace. C. MacDonald. Barron's 22:18 S 7 '42

Consolidated income account, 1938-1941. Comm & Fin Chr 155:1419 Ap 6 '42

New name of Sterling products (inc.). Comm & Fin Chr 156:1510 O 26 '42

Popguns on the southern front; Sterling products inc. surrendered its Latin-American drug market to Germany's I. G. Farben; now the government wants Sterling to go down and win it back singlehanded. il Fortune 25:90-1, 184+ Je '42

To change name; may simplify corporate structure; one-year record of dissociation from I. G. farben. Comm & Fin Chr 156:966 S 14 '42

STERN tubes. See Ships—Stern tubes

STEROIDS

Additional steroids with luteoid activity. H. Selye and G. Masson. Science 96:358 O 16 '42

Effect of 11-desoxy-17-hydroxycortico-sterone on renal excretion of electrolytes. M. Clinton, jr. and G. W. Thorn. Science 96:343-4 O 9 '42

STEROIDS—*Continued*

Preparation of $\Delta^{6,8(14)}$-, $\Delta^{7,9(11)}$-, $\Delta^{7,14}$- and $\Delta^{8,14}$-cholestadienes. J. C. Eck and E. W. Hollingsworth. bibliog Am Chem Soc J 64:140-4 Ja '42

Steroid hormone excretion by normal and pathological individuals. K. Dobriner and others. bibliog Science 95:534-6 My 22 '42

Sterols; sapogenins; the bio-reduction of steroids. R. E. Marker, R. B. Wagner and P. R. Ulshafer. Am Chem Soc J 64:1653-5 Jl '42

Synthesis of condensed ring compounds; the dianhydride of a steradiene-6,7,11,12-tetracarboxylic acid. L. W. Butz and L. M. Joshel. Am Chem Soc J 63:3344-7 D '41

Synthesis of condensed ring compounds; the dianhydride of a tetradecahydrochrysene-5,6,11,12-tetracarboxylic acid and a homolog with an angular methyl group. L. M. Joshel, L. W. Butz and J. Feldman. Am Chem Soc J 63:3348-9 D '41

Analysis

Reaction tube for determination of 17-ketosteroids. F. E. Holmes. diag Ind & Eng Chem Anal ed 13:911 D 15 '41

STEROLS

7-Benzoxysterols and their use in the preparation of 7-dehydrosterols. O. Wintersteiner and W. L. Ruigh. bibliog Am Chem Soc J 64:1177-9 My '42

Effect of ultraviolet light on polycyclic hydrocarbons in sterol surface film systems. W. W. Davis, M. E. Krahl and G. H. A. Clowes. Science 94:519-20 N 28 '41

Sterols. R. E. Marker and others. bibliog Am Chem Soc J 64:1273-85 Je '42

Sterols; 17-bromo-*allo*-pregnanone-20 and 17, 21-dibromo-*allo*-pregnanone-20. R. E. Marker and others. Am Chem Soc J 64:822-4 Ap '42

Sterols; 17-bromopregnan-3(β)-ol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. bibliog Am Chem Soc J 64:210-13 F '42

Sterols; 17,21-dibromopregnan-2(β)-ol-20-one and its conversion to pregnanol-3(β),21-diol-20-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:213-15 F '42

Sterols; 3,6-diketo sterols and their reduction products. R. E. Marker and others. bibliog Am Chem Soc J 64:219-20 F '42

Sterols of alfalfa seed oil; isolation of β-spinasterol and δ-spinasterol. L. C. King and C. D. Ball. bibliog Am Chem Soc J 64:2488-92 O '42

Sterols; rearrangement of 17-bromopregnan-3(β)-ol-20-one. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:216-18 F '42

Sterols; rearrangement of 17,21-dibromo-*allo*-pregnan-3(β)-ol-20-one acetate. R. E. Marker and others. Am Chem Soc J 64:2089-92 S '42

Sterols; rearrangement of 16,17-dibromopregnan-3(β)-ol-20-one. R. E. Marker, R. B. Wagner and E. L. Wittbecker. Am Chem Soc J 64:2093-7 S '42

Sterols; sapogenins; 20-methylpregnanetriol and related compounds. R. E. Marker and D. L. Turner. Am Chem Soc J 64:481-2 Mr '42

Sterols; sapogenins; oxidation products of sarsasapogenin: keto-sarsasapogenin. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:813-16 Ap '42

Sterols; sapogenins; sarsasapogenoic acid. R. E. Marker and A. C. Shabica. Am Chem Soc J 64:721-2 Mr '42

Sterols; sapogenins; the action of hydrogen peroxide on the pseudosapogenin acetates and on the pregnenolones. R. E. Marker, E. M. Jones and E. L. Wittbecker. Am Chem Soc J 64:468-9 F '42

Sterols; sapogenins; the bio-reduction of 4-dehydrotigogenone. R. E. Marker and others. bibliog Am Chem Soc J 64:818-22 Ap '42

Sterols; sapogenins; the bio-reduction of steroids. R. E. Marker, R. B. Wagner and P. R. Ulshafer. Am Chem Soc J 64:1653-5 Jl '42

Sterols; sapogenins; the configuration of the hydroxyl groups in chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:221-3 F '42

Sterols; sapogenins; the position of the hydroxyl groups in digitogenin. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1843-7 Ag '42

Sterols; sapogenins; the structure of the side chain in the dihydro-pseudosapogenins. R. E. Marker, D. L. Turner and P. R. Ulshafer. bibliog Am Chem Soc J 64:1655-8 Jl '42

Sterols; sapogenins; the structure of the side-chain of chlorogenin. R. E. Marker, D. L. Turner and E. L. Wittbecker. bibliog Am Chem Soc J 64:809-12 Ap '42

Sterols; some observations on the structure of ouabain. R. E. Marker and others. Am Chem Soc J 64:720-1 Mr '42

Sterols; the conversion of pregnan-3(β)-ol-20-one into etio-cholan-3(β)-ol-17-one. R. E. Marker, H. M. Crooks, jr. and R. B. Wagner. Am Chem Soc J 64:817-18 Ap '42

Sterols; the hypoiodite oxidation of pregnanolones and pregnenolones. R. E. Marker and R. B. Wagner. Am Chem Soc J 64:1842-3 Ag '42

Sterols; 3(α),11,12-trihydroxycholanic acid. R. E. Marker and others. Am Chem Soc J 64:1228-9 My '42

Steryl sulfates; isolation and separation of sterols. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:361-3 F '42

Steryl sulfates; preparation of 3,5,6-cholestantriol-I. A. E. Sobel, I. A. Kaye and P. E. Spoerri. bibliog Am Chem Soc J 64:471-2 F '42

See also
Cholesterol
Fucosterol
Phytosterols

STERYL sulfates

Preparation of unsaturated sterids from steryl sulfate. A. E. Sobel and M. J. Rosen. Am Chem Soc J 63:3536-7 D '41

Steryl sulfates; isolation and separation of sterols. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:361-3 F '42

Steryl sulfates; preparation of 3,5,6-cholestantriol-I. A. E. Sobel, I. A. Kaye and P. E. Spoerri. bibliog Am Chem Soc J 64:471-2 F '42

Steryl sulfates; thermal decomposition of calcium cholesteryl sulfate. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:482-3 Mr '42

STETTIN, Germany

Air force targets in Germany; port of Stettin. il diag map Engineer 172:251-4 O 17 '41

STEVENS institute of technology

Free-tuition courses in engineering for women. Science 95:sup10 Ja 16 '42

Stevens institute of technology. J. Creese. il J Eng Educ 32:717-19 My '42

STEWARDS

See also
Air lines—Stewardesses
Ships—Steward's department

STEWART-WARNER corporation

Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:593 S 19 '42

STICK lac. See Lac

STILBENE

Synthesis of 4,4′-diamidinostilbene hydrochloride. P. P. T. Sah. bibliog Am Chem Soc J 64:1487-8 Je '42

9-Vinylphenanthrenes; α-(9-phenanthryl)-stilbene. F. Bergmann. Am Chem Soc J 64:69-72 Ja '42

See also
Cyanostilbene

STILBENE—*Continued*

Analysis

Separation of *cis* and *trans* stilbenes by application of the chromatographic brush method. L. Zechmeister and W. H. McNeely. bibliog Am Chem Soc J 64:1919-21 Ag '42

STILBESTROLS

Colorimetric determination of diethylstilbestrol. M. Tubis and A. Bloom. bibliog Ind & Eng Chem Anal ed 14:309 Ap 15 '42

Some mono- and di-alkyl ethers of stilboestrol. E. E. Reid and E. Wilson. Am Chem Soc J 64:1625-6 Jl '42

Two ketones of the stilbœstrol group. R. Jaeger and R. Robinson. Chem Soc J p744-7 N '41

STILBOESTROL. See Stilbestrols

STILLING basins. See Dams—Design

STILLS. See Distillation apparatus

STILWELL, Clifford S. 1890-1941

Sketch. por Iron Age 148:88 N 27 '41; Business Week p103 D 6 '41

STILWELL, John

Colonel Stilwell is ASA board member. por Ind Stand 13:257 O '42

STINE, Charles Milton Altland, 1882-

Sketch. por Aero Digest 41:121 O '42

STING-ray. See Rays (fish)

STIRRERS

Anchor-type laboratory stirrer for viscous or foamy materials. R. E. Forrest. diags Ind & Eng Chem Anal ed 14:56 Ja 15 '42

See also

Agitators

STIRRING

Flask design and high-speed stirring. A. A. Morton, B. Darling and J. Davidson. diags Ind & Eng Chem Anal ed 14:734-6 S 15 '42

STIRRUP pumps. See Pumps—Stirrup pumps

STOCK control. See Inventories; Retail trade—Stock; Stores systems

STOCK exchange

Anticipates capital markets revival earlier than many expect. E. Schram. Comm & Fin Chr 155:2304 Je 18 '42

Applying new yardsticks to the changing status of common stocks. L. O. Hooper. Mag of Wall St 71:64-6+ O 31 '42

Bases of the British bull market; shrinkage of investment outlets intensifies effects of a full war economy. B. Ravits. Barron's 22:3 Ap 13 '42

Closer exchange relations; condensed from report of Stock exchange relations committee. Inv Banking 12:22-3 Je '42

Common stock control for trusts; procedure suggested for determining when to buy and sell. H. S. Valentine, jr. Trusts & Estates 75:401-2, 404-6 O '42

Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:62-3 [S] '42

Currency hoarding's effect on stocks. B. Ravits. Barron's 21:8 D 22 '41

Decentralization of securities exchanges. J. O. Kamm. 179p bibliog(p175-9) $2 Meador pub. co, Boston '42

Do Wall Street's customers win or lose? analysis of 1000 accounts, 1933-1937. P. F. Wendt. Barron's 22:9-10 Mr 16 '42

Do Wall Street's customers win or lose? how 200 traders operated their accounts in a two-year period. P. F. Wendt. Barron's 22:13+ Mr 23 '42

German Europe; bourses in 1941. Economist 142:397-8 Mr 21 '42

German experience with stocks and inflation. L. A. Hahn and J. Soudek. Bankers M 145:13-14, 16-21 Jl '42

How various market groups have moved. Barron's 22:1 O 19 '42

Is market on bottom? averages warrant selective purchases of equities, bonds and preferreds. A. T. Miller. Mag of Wall St 69:120-2 N 15 '41

London's stock market and ours. J. S. Lawrence. il Banking 35:32-3 N '42

Making money in stock trading. Barron's 22:7-8 O 26; 9 N 2; 9 N 9 '42

Manpower and the stock markets. Economist 142:686-7 My 16 '42

Market implications of the new tax bill. L. O. Hooper. Mag of Wall St 71:112-14+ N 14 '42

Money and security markets meet the shock of declared war. Nat City Bank p5-7 Ja '42

Need for free exchanges. E. Schram. Comm & Fin Chr 155:127 Ja 8 '42

New wave of pessimism hits stock market. G. G. Munn. Bankers M 143:449-50 N '41

1941 exchange sales down. Comm & Fin Chr 155:772 F 19 '42

Odd-lot versus member trading. Barron's 22:1 F 16 '42

Opposing war markets in similar trends; German stock prices, like those of Britain, reflecting stabilized earnings and favorable yields. B. Ravits. Barron's 22:5 My 25 '42

Outlook for equities. Bankers M 145:319-21 O '42

Plans announced to study joint problems confronting SEC and the securities industry. Comm & Fin Chr 156:265+ Jl 23 '42

Price-wage control bullish for stocks. B. Ravits. Barron's 22:3 O 19 '42

Recommends collaboration between SEC, dealers in maintaining economy. G. Purcell. Comm & Fin Chr 155:2289 Je 18 '42

SEC report sees growing importance of secondary distribution of exchange stocks. Comm & Fin Chr 155:833+ F 26 '42

SEC reports transactions of officers of companies having equity securities. Comm & Fin Chr 155:572 F 5 '42

Securities market and how it works. B. E. Shultz. 433p bibliog(p398-404) $5 Harper '42

Stock exchanges. Published in weekly numbers of the Economist

Stock market at a glance; price changes, earnings and dividends; New York stock and curb exchanges. Published in weekly numbers of Barron's

Stock market in buying zone; compares action of foreign markets with ours. R. Babson. Comm & Fin Chr 155:1849+ My 14 '42

Stock market—what next? G. Y. Billard. Comm & Fin Chr 155:1611 Ap 23 '42

Stocks here and in London. Barron's 21:1 D 15 '41

Study in the price movement; new bull market indicated by action of averages. Barron's 22:1 O 5 '42

Tale of two tickers; American and British stock markets. Business Week p104 D 6 '41

Trader gives his views of the market. H. J. Nelson. Published in weekly numbers of Barron's

Trader views 1942 prospects. H. J. Nelson. Barron's 22:25-7 Ja 12 '42

Trading activity as yardstick for granting unlisted trading privilege. F. Dunne. Comm & Fin Chr 155:409+ Ja 29 '42

Trading suspended in axis securities by N.Y. Stock, Curb and Boston stock exchanges; list. Comm & Fin Chr 154:1576 D 18 '41

Unified stockbroking. Economist 142:802 Je 6 '42

Wall Street woes. Business Week p78-9 Mr 7 '42

War comes to the markets. Business Week p81-4 D 13 '41

What's ahead for the market; bull arguments of a broker, bear arguments of an investment counselor, and commentary by A. T. Miller. Mag of Wall St 71:106-8+ N 14 '42

What's ahead for the market; summary of the fortnight. A. T. Miller. Mag of Wall St 69:350-2 Ja 10 '42 [cont bi-weekly]

Who are Wall Street's customers? P. F. Wendt. Barron's 22:18 Mr 30 '42

Why the stock market should do better. Comm & Fin Chr 156:1346 O 15 '42

STOCK exchange—*Continued*

With the United States at war we now know the worst. A. T. Miller. il Mag of Wall St 69:235-8 D 13 '41

See also

Bonds
Investments
Money
Prices
Securities
Speculation
Stocks

also names of exchanges, e.g.

Boston stock exchange
Chicago stock exchange
London stock exchange
Montreal stock exchange
New York curb exchange
New York stock exchange
Philadelphia stock exchange

also Association of stock exchange firms

Law

General rules and regulations under the Securities exchange act of 1934 as amended to and including April 15, 1942. 132p U.S. Securities and exchange commission, Philadelphia '42

Opposes SEC amendments at hearing before House committee in Capitol. E. Schram. Comm & Fin Chr 155:424-5 Ja 29 '42

Southern California dealers strongly oppose equalization clause amendment. Comm & Fin Chr 154:1313+ D 4 '41

Speakers flay proposed amendments to securities acts at N.Y. dealers meeting. Comm & Fin Chr 154:1009+ N 13 '41

Testify against SEC amendments at hearing before House committee. G. P. Rea and others. Comm & Fin Chr 155:410, 437 Ja 29 '42

See also

Brokers—Law

Options

How option traders view the market. Published in weekly numbers of Barron's

Regulation

See also

Securities and exchange commission
Stocks—Margin buying

Service charge

Association of exchange firms finds members favor principle of mandatory service charge. Comm & Fin Chr 156:353 Jl 30 '42

Special offerings

SEC broadens special offerings for exchanges. Comm & Fin Chr 155:1692 Ap 30 '42

SEC extends exemptions. Comm & Fin Chr 156:184 Jl 16 '42

SEC permits Curb to try special offerings. Comm & Fin Chr 155:1939 My 21 '42

STOCK liquidation agreements

Stock purchase agreement; guide to drafting business insurance plans. S. J. Foosaner. Trusts & Estates 74:59-63 Ja '42; Reply. G. Simons. 74:272; Rejoinder. 273 Mr '42

STOCK purchase agreements. See Stock liquidation agreements

STOCK purchase warrants. See Warrants, Stock purchase

STOCK ranges. See Ranges

STOCK rights. See Stocks—Rights

STOCK transfer tax

Double tax on odd lot deals ended in N.Y.; Schram commends action. Comm & Fin Chr 155:2017+ My 28 '42

N.Y. state transfer laws should be amended. Comm & Fin Chr 155:745+ F 19 '42

Urge repeal or modification of New York state stock transfer tax laws. E. Schram and J. F. Burns, jr. Comm & Fin Chr 155:649 F 12 '42

STOCKHOLDERS

Calls for proxy rule changes to prevent corporate mismanagement. G. Purcell. Comm & Fin Chr 156:893 S 10 '42

Do Wall Street's customers win or lose? analysis of 1000 accounts, 1933-1937. P. F. Wendt. Barron's 22:9-10 Mr 16 '42

Do Wall Street's customers win or lose? how 200 traders operated their accounts in a two-year period. P. F. Wendt. Barron's 22:13+ Mr 23 '42

Growth of securities ownership surveyed. Comm & Fin Chr 155:954 Mr 5 '42

Growth of stock ownership; number of stockholders, 4th quarter 1940 and 1941 in 15 leading corporations. Mag of Wall St 69:611 Mr 7 '42

Investors, arise! H. Martin organizing corporate stockholders. Business Week p82-3 Jl 11 '42

Law for the layman; itinerant stockholder. M. L. Hayward. Barron's 22:4 Jl 6 '42

Rights of preferred stockholders under the Holding company act. Pub Util 29:47-9 Ja 1 '42

SEC summary of proposed proxy rule revision. Comm & Fin Chr 156:893 S 10 '42

Stockholders as working partners; General mills, inc. J. F. Bell. il Ptr Ink 198:18-19+ Ja 9 '42

Stockholder's forum. Published in biweekly numbers of Magazine of Wall Street

Stockholders' forum; case against increased executive remuneration among companies whose expanded volume is due to war orders. Mag of Wall St 70:235-7 Je 13 '42; Discussion. 70:294-6, 346-7+ Je 27-Jl 11 '42

Stockholders' forum; growing demand by shareholders for a real voice in corporate affairs and a square deal from their government. Mag of Wall St 70:180-2 My 30 '42

Stockholders' forum; management bonus systems are always legal, but sometimes the amounts paid are not. Mag of Wall St 70:294-6 Je 27 '42

Upholding stockholders' rights. L. Stern. Mag of Wall St 70:123-5+ My 16 '42

Who are Wall Street's customers? P. F. Wendt. Barron's 22:18 Mr 30 '42

Who owns common stocks? how principal holdings in 200 largest non-financial corporations are distributed; tabulation. Mag of Wall St 69:325 D 27 '41; Trusts & Estates 74:84 Ja '42

Who owns the corporations. R. S. Tucker. Barron's 22:7-8 Ag 31 '42

See also

Advertising—Stockholders, Appeal to
Banks and banking—Stockholders
Corporation law
Corporations—Finance
Investors fairplay league
Proxies
Public utilities—Securities

STOCKHOLDERS, Reports to. See Corporations—Reports and yearbooks

STOCKROOMS. See Stores systems

STOCKS

Another look at Air Reduction, American Safety Razor, Homestake Mining, St Joseph Lead, Warner bros. pictures. Mag of Wall St 70:290-1+ Je 27 '42

Another look at Alpha Portland Cement, American Crystal Sugar, Wheeling Steel, United Dyewood, American Cyanamid. il Mag of Wall St 71:75-7 O 31 '42

Another look at American snuff co., Archer-Daniels-Midland, Bristol-Myers, Chicago pneumatic tool co., United Aircraft. Mag of Wall St 71:36-7+ O 17 '42

Another look at American Snuff, George W. Helme company, United States Tobacco, American Cyanamid, National Sugar. Mag of Wall St 70:343-5+ Jl 11 '42

Another look at Cerro de Pasco copper corp., Link-belt co., Climax molybdenum co., Continental-diamond fibre co., New Jersey zinc co. il Mag of Wall St 71:132-3+ N 14 '42

Another look at Chicago Pneumatic Tool, American Home Products, Twentieth Century-Fox Film, Archer-Daniels-Midland, Champion paper and fibre co. Mag of Wall St 70:28-9+ Ap 18 '42

Another look at Continental Can, General American Transportation, Glidden, National Biscuit, Westinghouse Electric. il Mag of Wall St 70:649-51+ O 3 '42

STOCKS—*Continued*

Another look at Douglas Aircraft, Chicago Pneumatic Tool, Crown Cork & Seal, Electric Boat, Gulf Oil. il Mag of Wall St 69:152-3+ N 15 '41

Another look at United States Rubber, Schenley Distillers, Foster Wheeler. Mag of Wall St 69:710-11+ Ap 4 '42

Another look at your company; American type founders, Howe Sound, National Supply, Superheater, Beatrice Creamery, Allis-Chalmers, Doehler Die. il Mag of Wall St 70:183-5 My 30 '42

Another look at your company; appraising the changing fortunes of war of Youngstown Sheet & Tube, Cluett, Peabody, Warren pipe & foundry corp., U.S. Industrial Alcohol, Western Union, and various others. Mag of Wall St 70:75-7 My 2 '42

Another look at your company; Bullard co., Mathieson Alkali, Savage Arms, U.S. Pipe & Foundry, American Chain & Cable, Skelly Oil, General Refractories, Otis Elevator. il Mag of Wall St 70:129-31+ My 16 '42

Another look at your company; International Nickel, Mack Trucks, Phillip Morris, National Cash Register, Weston Electrical Instrument, Square D, Corn Products, Black & Decker. Mag of Wall St 70:232-4 Je 13 '42

Applying new yardsticks to the changing status of common stocks. L. O. Hooper. Mag of Wall St 71:64-6+ O 31 '42

Are war stocks doomed when peace comes? J. L. Hopkins. Barron's 22:3 S 14 '42

Attraction of stocks in spite of high taxes; latter tend to stabilize, and inflation to boost, corporate earnings. A. A. Mol. Barron's 22:5-6 Ag 24 '42

Bargains in war orphans. H. Lawrence. Barron's 22:20 Ap 13 '42

Common stock and inflation; considerations in the use of equities in wartime. E. L. Maas. Trusts & Estates 74:183-4, 186+ F '42

Common stock hearings; extension of legal list investment. J. W. Meader. Trusts & Estates 73:539-40, 542 N '41

Common stocks priced from $1 to $10, and from $10 to $25; tabulation. Mag of Wall St Manual p16-32 Ap '42

Currency hoarding's effect on stocks. B. Ravits. Barron's 21:8 D 22 '41

Eight common stocks in favored positions. Mag of Wall St 69:202, 205-7 N 29 '41

Eight companies with long dividend records. J. C. Clifford. Mag of Wall St 71:19-21 O 17 '42

Eight low-price stocks with good dividend yield. Mag of Wall St 69:320-3 D 27 '41

Eight security selections for war or peace. Mag of Wall St 69:260, 263-5 D 13 '41

Eight special situations in common stocks; thumbnail stock appraisal. Mag of Wall St 69:146-9 N 15 '41

Exceptional 1942 opportunities in low-priced stocks; basis for potential appreciation. A. T. Miller. Mag of Wall St Manual p 1-2 Ap '42

50 stocks investment trusts prefer. Barron's 22:18 F 16 '42

First quarter earnings round-up; clues to 1942 profits and dividends. J. C. Clifford. Mag of Wall St 70:112-14+, 170-1+ My 16-30 '42

Five favored war stocks. J. J. Hipple. Mag of Wall St 69:438-40+ Ja 24 '42

Five high yield stocks with earnings three times dividends. S. Devlin. Mag of Wall St 69:560-1+ F 21 '42

Five high yield stocks with first call on earnings; Chrysler corporation, Holland furnace company, Climax molybdenum company, Anaconda copper mining company, Briggs manufacturing company. G. Gordon. Mag of Wall St 70:350-1+ Jl 11 '42

Five special situations for income and appreciation; Continental steel corporation, Erie railroad company, General steel castings corporation, Lee rubber and tire corporation, United merchants and manufacturers, inc. H. F. Travis. Mag of Wall St 71;30-1+ O 17 '42

Five stocks cheap under highest taxes; Chrysler, Inland Steel, Borg Warner, W. T. Grant, National Distillers Products. P. Dobbs. Mag of Wall St 70:240-1+ Je 13 '42

Five stocks in a strong earnings position for 1942; Alpha Portland Cement, Glen Alden Coal, Lee Rubber & Tire, Atlas Plywood, Central Violeta Sugar. F. R. Walters. Mag of Wall St 70:141-2+ My 16 '42

Four stocks with high quick assets and good earnings; Mack Trucks, Hudson Motor Car, General theatres equipment, Chickasha cotton oil co. F. R. Walters. Mag of Wall St 70:89-90+ My 2 '42

How big investors view the market; trend of cash holdings among various funds mixed. Barron's 22:18 O 26 '42

How investors value war earnings. H. Lawrence. Barron's 22:20 Ag 31 '42

How war will affect leading industries. H. Lawrence. Barron's 21:3-4 D 22 '41

Industries and securities in favored investment position. J. C. Clifford. il Mag of Wall St 70:531-3+ S 5 '42

Investment trusts; a turn in the tide? Comm & Fin Chr 155:2023 My 28 '42

Investment trusts; market of stocks. Comm & Fin Chr 155:655 F 12 '42

Leaders and laggards in the stock market. F. K. Dodge. Mag of Wall St 70:340-2+ Jl 11 '42

Low priced stocks can make profits for you and for your customers. Comm & Fin Chr 154:1017 N 13 '41

Many stocks advance against trend. H. Lawrence. Barron's 21:3 D 8 '41

Market evaluation of war earnings and dividends. J. C. Clifford. Mag of Wall St 70:437-9+ Ag 8 '42

Midyear security appraisals and dividend forecasts; position of miscellaneous companies. Mag of Wall St 70:450-1 Ag 8 '42

1942 mid-year security appraisals and dividend forecasts. Mag of Wall St 70:385-97+, 443-51+, 493-504+, 541-53+ Jl 25-S 5 '42

1942 special security re-appraisals and dividend forecasts. il Mag of Wall St 69:425-37, 485-97, 543-57, 597-607 Ja 24-Mr 7 '42

Oldest common stock dividend records; with year payments began; tabulation. Mag of Wall St 70:189 My 30 '42

Potential leaders of recovery. F. K. Dodge. Mag of Wall St 70:222-3+ Je 13 '42

Potential market leaders; stocks with outstanding technical patterns. F. K. Dodge. Mag of Wall St 70:274-5+ Je 27 '42

Reserve board changes stock list publication. Comm & Fin Chr 155:934 Mr 5 '42

Safeguarding against dividend casualties; tabulation covering 1940 earnings, interim earnings, dividends paid or declared to Nov. 18, and current price times dividend ratios. Mag of Wall St 69:191-3, 253-5, 314-16 N 29-D 27 '41

Securities disturbing investors; Beneficial industrial loan corp., Monsanto chemical company. J. S. Williams. Mag of Wall St 71:127+ N 14 '42

Securities disturbing investors; Niagara Hudson power corp., Armour & co. of Illinois, American woolen company. J. S. Williams. Mag of Wall St 71:14-15 O 17 '42

Securities disturbing investors; Philip Morris and co., Union bag and paper corp., Dome mines, ltd. J. S. Williams. Mag of Wall St 71:70-1+ O 31 '42

Selected common stocks for dependable income. J. S. Williams. Mag of Wall St 70:14 Ap 18 '42

Selected common stocks offering reasonably secure dividends. J. S. Williams. Mag of Wall St 70:66 My 2 '42

Six common stocks in strategic position. Mag of Wall St 69:502-3+ F 7 '42

Six high yield stocks showing superior market action. S. Devlin. Mag of Wall St 69:658-9+ Mr 21 '42

Six stocks favored by special circumstances; Carpenter Steel, Fruehauf Trailer, Paramount Pictures, Phelps Dodge, Greyhound corp. U.S. Plywood. E. A. Barnes. Mag of Wall St 70:193-4+ My 30 '42

STOCKS—*Continued*

Six stocks in strategic market position. Mag of Wall St 69:705-7 Ap 4 '42

Six stocks outstripping the market. Mag of Wall St 71:84-6 O 31 '42

Six stocks with good earnings and assets; thumbnail stock appraisals. Mag of Wall St 71:134-6 N 14 '42

Six stocks with good earnings despite higher taxes. S. Devlin. Mag of Wall St 70:505+ Ag 22 '42

Stock market comments; position of equities. G. Y. Billard. Comm & Fin Chr 155:2201 Je 11 '42

Stocks face war taxation; some high yields on favored issues. H. Lawrence; L. Tomlinson. Barron's 21:3-4 D 15 '41

Stocks making new highs or lows in January; Barron's group averages, percentage change, 1941. Barron's 22:9 F 9 '42

Ten companies with long dividend records. J. C. Clifford. Mag of Wall St 70:598-600 S 19 '42

Ten companies with long dividend records. J. C. Clifford. Mag of Wall St 70:643-5 O 3 '42

Ten favored stocks for 1942. il Mag of Wall St 69:364-7+ Ja 10 '42

Ten favored stocks priced from $1 to $10, and ten from $10 to $25. Mag of Wall St Manual p6-15 Ap '42

Ten outstanding stocks for income and profit. Mag of Wall St 70:440-2 Ag 8 '42

20 low-priced stocks for large percentage gains. Mag of Wall St 70:591-5 S 19 '42

29 industrial stocks yielding 8% or higher. H. Lawrence. Barron's 22:13 S 28 '42

Varied profit potentials under proposed new taxes. B. M. Fullerton. Mag of Wall St 70:132-3+ My 16 '42

Varying effects of new taxes on common stocks. C. H. Owen. Mag of Wall St 70:333-5+ Jl 11 '42

What is the future for common stocks? L. Stern. Mag of Wall St 69:183-5+ N 29 '41

Which industries offer best prospects for 1942? G. W. Mathis. il Mag of Wall St 69:353-7+ Ja 10 '42

Which stocks to weed out? E. A. Barnes. Mag of Wall St 69:608-9 Mr 7 '42

Wisest investment program today for income; for capital appreciation. J. S. Williams. Mag of Wall St 70:271-3+ Je 27 '42

See also

Airplane industry and trade—Securities
Automobile industry and trade—Securities
Banks and banking—Stock
Bonds
Chemical industries—Securities
Corporations
Dividends
Electric utilities—Securities
Insurance companies—Securities
Investments
Mining industry and finance—Securities
Petroleum industry and trade—Securities
Promoters, Fraudulent
Public utilities—Securities
Railroads—Securities
Securities
Speculation
Stock exchange
Stocks, Preferred

also names of exchanges, e.g. New York curb exchange; New York stock exchange

Law

Law for the layman; forged certificates. M. L. Hayward. Barron's 22:16 Jl 27 '42

Leverage

Cheap hedges against a market rise; speculative trust shares at large discounts. L. Tomlinson. Barron's 22:18 F 23 '42

Margin buying

Expensive buy; question of closing out customer's account and purchase by broker. M. L. Hayward. Barron's 22:5 Je 15 '42

Legal oddities; customer's choice. Comm & Fin Chr 156:1352 O 15 '42

New margin account rule given NYSE members. Comm & Fin Chr 156:883 S 10 '42

New tax rulings for investors; deductibility of interest charges; status of selling commissions. L. J. Freeman. Barron's 22:7 Ap 6 '42

Odd lots

Double tax on odd lot deals ended in N.Y.; Schram commends action. Comm & Fin Chr 155:2017+ My 28 '42

Odd-lot versus member trading. Barron's 22:1 F 16 '42

Odd-lot victory; Big Board wins removal of New York state's double tax on small trades. Business Week p70 My 30 '42

Urges end of double taxing of odd-lots. Comm & Fin Chr 155:1234 Mr 26 '42

Preferred stocks

See Stocks, Preferred

Price-earnings ratios

Earnings for sale; ratios of per-share profits to market prices. Business Week p52-4 Ja 3 '42

How stock prices value earnings; chart showing ratio prices to earnings over seventy years. L. S. Mott. Barron's 22:8 Ja 26 '42

Market valuation of war earnings. W. Gates. Mag of Wall St 69:422-4+ Ja 24 '42

Price forecasting

Market forecasting significance of market movements; daily highs of the U.S. Steel common stock; wheat May futures and cotton October futures. L. C. Wilcoxen. Am Statis Assn J 37:343-51 S '42

Price indexes and averages

Barron's group stock averages. Published in weekly numbers of Barron's

Check-up on the Dow-Jones industrials. Barron's 22:1 Ap 20 '42

Common stock index. Published in bi-weekly numbers of Magazine of Wall Street

Comparison of group averages since Pearl Harbor. Barron's 22:1 Je 15 '42

Dow-Jones averages. Published in weekly numbers of Barron's

How group averages compare with 1938 lows. Barron's 22:1 Mr 23 '42

How various market groups have moved. Barron's 22:1 O 19 '42

Magazine of Wall Street's common stock price index; sixteenth annual revision. Mag of Wall St 69:446-7+ Ja 24 '42

Market laboratory. Published in weekly numbers of Barron's

Standard and Poor's stock price indexes; revised series, monthly, Jan. 1918-Oct. 1941. Survey of Cur Business 22:20-1, S18 Ja '42

Stock prices, 1938-1940 average; monthly Nov. 1940-Nov. 1941; weekly Dec. 1941. Fed Res Bul 28:46 Ja '42 [cont monthly]

Study in the price movement; new bull market indicated by action of averages. Barron's 22:1 O 5 '42

War babies lead low-priced stock index. Barron's 22:1 F 23 '42

X-ray of the Dow-Jones industrial average. F. K. Dodge. Mag of Wall St 70:430-1 Ag 8 '42

Prices

Bases of the British bull market; shrinkage of investment outlets intensifies effects of a full war economy. B. Ravits. Barron's 22:3 Ap 13 '42

Case for rising stock prices; post-war deflation seen. W. von Tresckow. Barron's 22:3+ Je 1 '42

Certain observations on seasonal movements in stock prices. S. B. Wachtel. bibliog J Business 15:184-93 Ap '42

Chicago stock exchange record of prices for 1941, monthly; tabulation. Comm & Fin Chr 155:470-2 Ja 29 '42

Course of prices of railroad and miscellaneous stocks on N.Y. stock exchange, 1941, monthly; tabulation. Comm & Fin Chr 155:462-70 Ja 29 '42

How big a rally? Business Week p76+ Ag 8 '42

STOCKS—Prices—*Continued*

Many stocks show price gain; other groups declined sharply on outbreak of war. Barron's 22:4 Ja 5 '42

Monthly range of prices on Cincinnati stock exchange for 1941; tabulation. Comm & Fin Chr 155:472-3 Ja 29 '42

Monthly range of prices on Cleveland stock exchange for 1941; tabulation. Comm & Fin Chr 155:473-4 Ja 29 '42

Monthly range of prices on St Louis stock exchange for year 1941; tabulation. Comm & Fin Chr 155:476-7 Ja 29 '42

Monthly range of prices on the Detroit stock exchange, 1941; tabulation. Comm & Fin Chr 155:474-5 Ja 29 '42

New York curb exchange—weekly and yearly record. Published in weekly Monday numbers of Commercial & financial chronicle

New York stock record. Published in weekly Monday numbers of Commercial & financial chronicle

98 stocks in bull market trends; with rising lows and highs since Pearl Harbor. L. Tomlinson. Barron's 22:9 Ag 17 '42

Opposing war markets in similar trends; German stock prices, like those of Britain, reflecting stabilized earnings and favorable yields. B. Ravits. Barron's 22:5 My 25 '42

Stock market at a glance; price changes, earnings and dividends, New York stock and curb exchanges. Published in weekly numbers of Barron's

Stock market; longest bear market in over 50 years; advice for investors. W. F. Shelley. Comm & Fin Chr 155:1523 Ap 16 '42

Stock prices in England; some factors causing rise also present in New York. Barron's 22:1 O 12 '42

Stocks bucking the trend; many industrial issues show substantial price gains over December lows. L. Tomlinson. Barron's 22:8 Mr 9 '42

Why we believe higher prices are ahead. A. T. Miller. Mag of Wall St 70:162-6 My 30 '42

Rights

Handling a record issue of rights; Bankers trust company methods in American telephone and telegraph company warrants. F. A. Auer and F. W. Boehm. il Burroughs Clearing House 26:19+ N '41

Statistics

Big investors' security transactions; Securities and exchange commission's monthly summary of purchases and sales by company officials and principal stockholders. Published in Barron's

Stock trends in three war years; armament industries have lagged far behind certain consumer groups. Barron's 22:1 Ag 24 '42

Valuation

Valuation of corporate securities. J Account 74:294-5 O '42

Yields

Dividend payments in 1941 of common stocks listed on the New York stock exchange, by type of industry. Mag of Wall St 69:559 F 21 '42; Same. Trusts & Estates 74:198 F '42

Low price of equity income. B. Helmer and M. J. Fox, jr. Barron's 21:13 N 17 '41

Tomorrow's yields for common stocks. J. S. Williams. Mag of Wall St 70:230-1 Je 13 '42

STOCKS, Preferred

Attractive preferred stocks with arrears. P. Dobbs. Mag of Wall St 69:596+ Mr 7 '42

Bonds and preferred stocks for income and appreciation. F. K. Dodge. Mag of Wall St 70:402-3+ Jl 25 '42

Bonds and preferred stocks for increased yield. J. S. Williams. Mag of Wall St 69:142-3+ N 15 '41

Defensive investment program for today's conditions; preferred stocks and bonds offering high income yield. J. S. Williams. Mag of Wall St 69:442-3+ Ja 24 '42

Medium-grade preferreds yielding over 6%. H. Lawrence. Barron's 22:20 Je 29 '42

New preferred stock yardstick; former methods of determining safety margin outmoded by present taxes. C. MacDonald. Barron's 22:7-8 My 4 '42

Perpetual investment; preferred stocks which cannot be called for redemption. Mag of Wall St 70:401 Jl 25 '42

Public utility preferred stocks with profit possibilities. Mag of Wall St 71:35 O 17 '42

Selected preferred stocks attractive for income. J. S. Williams. Mag of Wall St 69:693; 70:15 Ap 4-18 '42

Selected preferred stocks; five issues for income and appreciation. H. F. Travis. il Mag of Wall St 69:256-7 D 13 '41

Shields inaugurates weekly stock letter. Comm & Fin Chr 155:944 Mr 5 '42

Six attractive utility preferreds. F. C. Fullerton. Mag of Wall St 71:27+ O 17 '42

Standard and Poor's high grade preferred stock yields; revised series, monthly, Jan. 1928-Nov. 1941. Survey of Cur Business 22:22 Ja '42

Treatment of noncumulative preferred shareholders with regard to dividends. S. G. Spal. bibliog J Business 15:248-65 Jl '42

See also

Warrants, Stock purchase

Convertible stocks

Conversion features of preferred stocks. Mag of Wall St 70:455 Ag 8 '42

Participating stocks

Stocks with the right to participate. Mag of Wall St 70:605 S 19 '42

STOCKYARDS

See also

Live stock

STOICHIOMETRY

High polymers and new rules. S. Weiner. bibliog J Chem Educ 19:514-16 N '42

Mixed solvent extraction; batch-extraction stoichiometric computations. T. G. Hunter. bibliog diags Ind & Eng Chem 34:963-70 Ag '42

Stoichiometric calculations on the basis of crystal lattices. A. Silverman. J Chem Educ 19:16 Ja '42

X-rays and the stoicheiometry of the proteins, with special reference to the structure of the keratin-myosin group. W. T. Astbury. bibliog pl diags Chem Soc J p337-47 My '42; Abstract. Soc Dyers & Col J 58:163-4 Ag '42

STOKELY brothers and company

Capital readjustment plan consummated. Comm & Fin Chr 155:1419 Ap 6 '42

STOKERS, Mechanical

American society of mechanical engineers and American institute of mining and metallurgical engineers joint fuels conference, Easton, Pa. Oct. 30-Nov. 1. Power 85:926+ D '41; Power Pl Eng 45:76 D '41

Automatic combustion control of traveling grate stokers. W. H. Pugsley. Blast F & Steel Pl 30:358+ Mr '42

Burning wood waste on stokers. B. H. Whitehouse. Power Pl Eng 46:95 Mr '42

Chain grate stoker operation. H. D. Brown. Power Pl Eng 46:94-5 F '42

Coal segregation in a stoker hopper; problem. diag Power Pl Eng 46:104 Mr '42; Solutions. 46:128, 130, 132 My '42

Conditions required to burn screenings successfully. F. P. Roesch. Ry Age 111:950-1; Discussion. J. W. Hulson. 951 D 6 '41

Domestic stoker for bituminous coal; stoker designed to burn highly coking slacks and small sizes. S. W. Guthrie. il diag Mech Eng 64:599-603 Ag '42

Experimental plant at University of Iowa produces excellent stoker fuel from Iowa screenings. H. L. Olin and others. il Coal Age 47:69-71 Je '42

From oil to coal. D. M. Myers. il diags Factory Management 100:121-8 S '42

Improved firing cuts fuel bill 38 percent; pneumatic spreader type stoker saves at bakery plant. F. A. Westbrook. il Food Ind 14:43 Mr '42

STOKERS, Mechanical—*Continued*

Low-level alarm for stoker hoppers. S. M. Elonka. diag Power 86:510 Jl '42

More power from existing equipment; step-up stokers for war loads. L. N. Rowley. diags Power 86:167-74 Mr '42

New developments in stoker design. F. Hoke. In Ill U Eng Exp Sta Circ 43:49-57 '42

New home bogey licked by stoker installation matching rival automatic heat. il plan Coal Age 46:43-4 N '41

Rear arch improves underfeed stoker operation. D. J. Mosshart. diags Power 86:384-5 Je '42

Results with spreader stokers. R. N. Bucks. il Power Pl Eng 46:106-7 My '42

Richmond's three-year record shows low stoker maintenance. H. C. Carroll. il Power 86:502 Jl '42

Spreader stokers applied to marine boilers. O. de Lorenzi. il diags Mech Eng 64:549-54 Jl '42; Discussion. 64:808-10 N '42

Steam cooling for mechanical-stoker grates. B. M. Thornton. bibliog diags Engineering 154:183-5, 214-15 S 4-11 '42

Steam generation with available fuels. O. de Lorenzi. Steel 111:82, 100-3 O 19; 80, 82+ O 26 '42

Step up stokers to meet war loads; pneumatic-spreader-stoker installation. T. A. Marsh. diag Power 86:335 Ap '42

Stoker study on automatic heat with Pennsylvania bituminous progresses at Penn State; abstract. A. W. Gauger. Heat & Ven 39:61 My '42

Stokers do a good job in firing electrical porcelain ware. il diag Cer Ind 39:52+ Ag '42

Stokers have many advantages for high temperature burns. il Brick & Clay Rec 101:38, 40 Jl '42

Subbituminous slack from the northern Colorado field; abstract. V. F. Parry and W. S. Landers. Coal Age 47:83+ Jl '42

Traveling coal spouts solve stoker problem. il Elec W 116:1904+ D 13 '41

Underfeed stokers on round downdraft kilns; abstract. E. B. Merry, jr. diags Brick & Clay Rec 100:31-2 My '42

Care

Pointers on how to conserve equipment. T. W. Rea. Heat & Ven 39:34 My '42

Ways to avoid high stoker maintenance and retain good combustion; abstract. A. R. Mumford. diag Power 86:800-1 N '42

Lubrication

Single shot oiling cures stoker trouble. J. F. Clack. il Power Pl Eng 46:113 My '42

Merchandizing

Commercial, industrial stoker sales up. Heating-Piping 14:547 S '42

Stoker manufacturer operates retail store to prove his point. il Sheet Metal Worker 32:44, 46, 48 N '41

Rating

Coal-burning heating systems; a report on magazine-feed boilers for anthracite coal, on stokers and boilers for anthracite and bituminous coal. Consumers' Research Bul 9:8-10 N; 14 D '41; Correction. 9:25 Mr; 20 Ap '42

Repair

Pipe-stoker parts salvaged by welding. diags Elec W 117:1857-8 My 30 '42

Statistics

OPM survey shows 758,492 stokers in U.S. Am Bld 64:86 Mr '42

192,447 stokers sold in 1941, increase of 25.9% over 1940. Heat & Ven 39:54 Mr '42

Stoker markets indicated in survey by Stoker manufacturers' association. Heat & Ven 38:50 N '41

STOLZ, Harry Phillip, 1899-

Sketch. por Min & Met 23:555 N '42

STOMACH

See also

Gastric juice

Diseases

Great American stomach; gastrointestinal tract and its troubles. il Fortune 24:82-5+ D '41

Peptic ulcer; constitutional disease of psychogenic origin. W. J. Walker. Ind Med 11:106-7 Mr '42

STOMACH stones. See Gastroliths

STONE

Desert alphabet; strange letters of stone found in sand wastes of southwestern Arizona. J. C. Coyle. il Sci Am 166:26-7 Ja '42

See also

Blasting
Building stone
Dolomite
Granite
Gravel
Limestone
Pulpstones
Quarries and quarrying
Road materials
Rocks

STONE, Artificial

See also

Concrete stone

STONE, Crushed

All crushing by impact; Melvin stone co., Melvin, Ohio. B. Nordberg. flow diag il Rock Prod 45:26-7+ Ag '42

All crushing in quarry; haulage system; Glens Falls portland cement co. il Rock Prod 45:40-1 Je '42

Cedar Bluff quarry, Princeton, Kentucky, converts open-face to mine. B. Nordberg. il diags Rock Prod 45:56-8 O '42

Cement-treated base course takes hold on Pacific coast. il Concrete 49:8 D '41

Crush million tons of stone for T.V.A; Birmingham slag co. il Rock Prod 44:43-5 D '41

Diesel power for new quarry; Superior stone co., Raleigh. E. U. Ragland. il Rock Prod 45:34-5 Ap '42

Efficient enclosures solve dust problem; Lynn sand and stone co. flow sheet il Rock Prod 45:44-5+ Ap '42

More screens cut time loss; Ohio marble co. flow sheet il Rock Prod 45:48-50 F '42

New methods and equipment to improve the product; discussion before National crushed stone association. Rock Prod 45:52 Mr '42

Powdered stone in concrete road construction. Roads & Bridges 80:100 F '42

Safety awards presented at annual meeting of crushed stone producers. il Explosives Eng 20:84-5 Mr '42

Six Diesels operate stone plant; Lambert bros, inc. il Rock Prod 44:41-2 D '41

Stone companies pool equipment for large army contract. Rock Prod 45:96-7 My '42

Types of powdered stone in concrete road construction. Am Concrete Inst J 13:369 F '42; Same. Rock Prod 45:69 Ap '42; Same cond. Roads & Bridges 80:100 F '42

See also National crushed stone association

STONE, Powdered. See Stone, Crushed

STONE construction

Rubble masonry to save critical materials. L. M. Winsor. il diags Eng N 128:482-4 Mr 26 '42

STONE cutting

Diesel installation solves difficult power problem; Adam Ross cut stone co. il Diesel Power 19:1030-1 D '41

Stone masonry; modernisation of an old-established industry. il Elec R (Lond) 130:269-70 F 27 '42

STONE sand. See Sand—Stone sand

STONEWARE

Chemical stoneware containers; recent developments. D. Eyles. diags Chem Age (Lond) 46:315-16 Je 27 '42

Industrial uses of stoneware. Engineering 153:343-4 My 1 '42

Non-metallic chemical plant. A. E. Williams. il diags Engineer 174:5-6 Jl 3 '42

Non-metallic materials; chemical, stoneware, porcelain, cements; physical properties, makers. Chem & Met Eng 49:95-6 S '42

STONEWARE—*Continued*

Expansion and contraction

Influence of flint particle size on permanent moisture and thermal expansion in porous earthenware bodies. W. E. Palmer. bibliog Am Cer Soc J 25:413-16 O 1 '42

Manufacture

Improving thermal shock resistance of chemical stoneware bodies. J. O. Knizek. Cer Ind 37:74, 76 D '41

STONEY, George Gerald, 1863-1942
Sketch. por Engineer 173:429-30 My 22 '42; Engineering 153:414 My 22 '42

STOP baths. See Photography—Developing and developers

STOP watches
Sag measurement by means of a stop watch. R. A. Tynes. diag Instruments 15:88-9 Mr '42

STOPCOCKS
Ether-insoluble stopcock lubricant. B. L. Herrington and M. P. Starr. Ind & Eng Chem Anal ed 14:62 Ja 15 '42
Injection and sampling stopcock. E. H. Brown. diags Ind & Eng Chem Anal ed 14:551 Jl 15 '42

STOPING methods. See Mining methods

STOPPERS
Simple rubber stopper economizer. R. C. Peter. diag Chem & Ind 61:383 S 12 '42

STORAGE
Basis for inventory and carrying charges on commodity in storage. J Account 74:69 Jl '42
Handling time cut 96 per cent; receiving and storing sheet steel at plant of A. S. Campbell co. il Steel 110:82+ Ap 6 '42
How to stack and load corrugated shipping boxes. diags Steel 111:81+ O 19 '42
Mobilising your stores to store more; mobile storage bins. plan Mech Handling 29:190 O '42

See also
Apples—Storage
Coal storage
Cold storage
Eggs—Storage
Food—Storage
Food, Frozen—Storage
Gasoline storage
Grain elevators
Meat—Storage
Oil storage
Racks
Stores systems
Tanks
Warehouses
Water storage
Wheat—Storage

STORAGE batteries
Automatic stand-by power equipment speeds machining of gears. il Blast F & Steel Pl 30:1015 S '42; Same. Iron Age 150:57 N 12 '42
Automotive batteries economical for stations. Elec W 118:650+ Ag 22 '42
Diesel locomotive battery maintenance vital during wartime. il Diesel Power 20:573-4 Jl '42
Effect of temperature on the rate of self discharge of lead acid storage batteries. A. C. Zachlin. bibliog Electrochem Soc Trans 82 (preprint 12):125-31 O '42
Emergency power supply for continuous machining; DeLaval turbine co. H. M. Martin. il diag Power Pl Eng 46:82-3 N '42
How to apply batteries and charging equipment for power houses and substations; diagram and table. Elec W 118:166 Jl 11 '42
How to conserve car batteries. il Nat Pet N 34:33-4 O 28 '42
Lead accumulators; utilisation of the active mass. Chem Age (Lond) 47:60 Jl 18 '42
Plastics competition award to Koehler mfg. co., inc.; Acousticon rechargeable battery. il Mod Plastics 19:116-17 N '41
Plastics competition award to Willard storage battery co.; case molded of clear polystyrene. il Mod Plastics 19:110-11 N '41
Storage batteries designed for war use. il diags Diesel Power 20:660-1 Ag '42
Storage battery emergency lighting and power plants. il diags Power Pl Eng 46:81-3+ My '42
Storage battery maintenance form. V. D. Hollis. Elec W 118:1284+ O 17 '42
Storage battery takes over when power fails; DeLaval steam turbine co. il Power 86:389 Je '42
War maintenance; storage batteries. il Coal Age 47:96-8 O '42
X-ray studies of storage battery pastes. J. N. Mrgudich. il diag Electrochem Soc Trans 81 (preprint 1):1-9 Ap '42

Charging

How Diesel-electric locomotive controls work. T. L. Weybrew. il diags Diesel Power 20:825, 832, 834 O '42
Industrial trucks; battery maintenance. Mech Handling 29:174-5 S '42

Storage

Storing a storage battery. Consumers' Research Bul 9:21-2 Ap '42

STORE buildings
Neighborhood stores for Seattle workers. il Am Bld 64:48-9 Ag '42
Store modernizing without metals; with timesaver standards. M. Lapidus. il diags Arch Rec 92:71-8 O '42
Store remodeling. D. Stetson. il diags Arch Rec 91:44-5 F '42

See also
Department stores
Shopping centers

Air conditioning

350 tons of air conditioning; Sears, Roebuck & co. Birmingham. G. H. Watson. il Heat & Ven 39:19-20 Mr '42
Windowless store in Birmingham, Ala.; Sears, Roebuck & company air conditioning equipment. Refrig Eng 43:367 Je '42

Designs and plans

Department store in Texas; White House dry goods co, Beaumont. il plans Arch Rec 92:53-6 O '42
Furniture shop, New York city. il plans Arch Forum 77:86-8 Ag '42
Macy's Parkchester, New York city; views, plans and construction outline. Arch Forum 76:126-8 F '42
Parmelee-Dohrmann store, Los Angeles; views and plans. Arch Rec 91:48-9 F '42
Planned for modernization as values develop; Corinne Griffith buildings, Beverly Hills, Calif. il plans Arch Rec 90:90-1 D '41
Three retail stores for Sears, Roebuck & co.; Birmingham, Ala., Honolulu, Washington, D.C. il diags plans Arch Forum 76:207-16 Ap '42

Electric equipment

Economics of installation planning; consideration of wiring problems in large stores and office buildings. H. M. Winstanley. Electrician 127:348-9 D 19 '41

Heating and ventilation

Air circulators for large store; Lit brothers department store, Philadelphia. il Sheet Metal Worker 33:42+ My '42

Lighting

11th I.E.S. prize competition; lighting a super food market. W. I. Knapp. il plans Illum Eng 37:519-28 S '42
Fluorescent store lighting. il Light & Lighting 35:110 S '42
Light for furniture store and for a drug store. il Elec West 89:62 Jl '42
Light must live; for the stores of today and tomorrow. il Elec West 89:50-1 S '42
New technique in display lighting. J. L. Stair and W. Foulks. il diags plans Illum Eng 37:147-64 Mr '42

STORE-door distributor. See Jobbers, Wagon

STORE employees. See Retail workers

STORE lighting. See Store buildings—Lighting

STORE management. See Retail trade—Store management

STORE size. See Retail trade—Store size

STORE windows. See Show windows

STORES (retail trade)

Modern ideas serve a Boston tradition; store for S. S. Pierce co. il plan Arch Rec 92:58-9 O '42

Plastics competition award to Coty, inc.; screens and display counters. il Mod Plastics 19:62-3 N '41

Store modernizing without metals; with timesaver standards. M. Lapidus. il diags Arch Rec 92:71-8 O '42

See also

Chain stores
Department stores
Drug stores
Electric shops (retail trade)
Food stores
Fur stores
Gift shops
Market stores
Men's stores
Plumbing shops
Retail trade
Show windows
Store buildings
Women's apparel shops

STORES systems

Accounting for materials and related procedures; report of the systems and methods study group New York chapter, N.A.C.A. N A C A Bul 23:1657-81 Ag 15 '42

Controlling stores inventories; experience of a ship-outfitting company. C. E. Hill. Factory Management 100:110+ Ag '42

Co-ordinating material with production needs. H. J. Myers. N A C A Bul 23:793-812 F 1 '42

Movable scales speed weigh-counting; Waukesha motor co. il Steel 110:104+ My 11 '42

Stock and production control at Douglas Aircraft. flow chart il Aero Digest 41:108, 111-12, 114 Jl '42

Using machines to fullest extent; Walter Kidde & company. C. A. Woodhall. il Factory Management 100:96-7+ Ag '42

See also

Inventories
Tool rooms
Tools

STOREYARDS for waterworks. See Waterworks—Storeyards

STORM windows

Storm sash: low cost fuel saving. C. P. Balsam. Sheet Metal Worker 33:36, 38 S '42

STORMS

Directional characteristics of tropical storm static. S. P. Sashoff and W. K. Roberts. bibliog map Inst Radio Eng Proc 30:131-3 Mr '42

See also

Hurricanes
Lightning
Rain and rainfall
Thunderstorms
Tornadoes
Winds

STOUGHTON, Bradley, 1873-

Sketch. por Metal Prog 40:884-6 D '41

STOUT, Ernest G. 1913-

Lawrence Sperry award for 1941 to Ernest G. Stout. J Aeronautical Sci 9:115 Ja '42

STOVE pipes

Stovepipe forms speed winter concreting; foundations for 150 barracks and officers' quarters at three New England projects. il Eng N 129:346-7 S 10 '42

STOVES

Glass stoves. il Sci Am 167:124 S '42

New conversion; stove industry first to go on part-civilian, part-war basis. Business Week p16-18 My 23 '42; Am Gas Assn Mo 24:220 Je '42

War production board, Division of industry operations, order L-23-c; production of domestic cooking appliances. Am Gas J 156:34-5 Je '42

See also

Electric stoves
Gas stoves
Heaters

Manufacture

Efficiently designed dip wheel solves conveyor problem; Floyd Wells stove co. il Cer Ind 39:47 S '42

Mechanical handling aids plant expansion; Florence stove co. H. H. Slawson. il diag Steel 110:58, 60, 69 Ja 12 '42

STOWAGE

Handling and stowage of cargo. A. G. Ford. 213p $2.25 International textbook co, Scranton, Pa. '41

Modern ship stowage; including methods of handling cargo at ocean terminals. J. Leeming. il diags U S Bur For & Dom Com Industrial Ser 1:1-719; $1.50 Supt. of doc. '42

Rules for cargo stowage: legislation designed to promote safety at sea. M. E. McFarland. Weekly Underw 146:661 Mr 21 '42

Stowage, the properties and stowage of cargoes. R. E. Thomas. 3d ed rev & enl 468p 36s Brown, son & Ferguson, Glasgow '42

STOWELL, Kenneth Kingsley, 1894-

Editor-in-chief of Architectural record. por Arch Rec 91:35 Mr '42

STRAIGHTENING

Flame straightening. C. W. Hale. diags Steel 110:85+ My 4 '42

Straightening hardened parts; abstract. R. B. Seger and G. B. Berlien. Metals & Alloys 16:136+ Jl '42

STRAIGHTENING machines

Centreless bar-turning and straightening machines. il Engineer 172:261-2 O 17 '41

Huge machine straightens 6-inch solid rounds. il Steel 109:82 D 1 '41

Machine for straightening fine wire. diag Mach 49:164 O '42

Medart bar and tube straightener. il Blast F & Steel Pl 29:1241 D '41

Medart bar and tube straightener. il Iron Age 150:62 Ag 6 '42; Blast F & Steel Pl 30:916 Ag '42

Seventeen-roll universal machine straightens and untwists bars and shapes. il Steel 110:107+ Ap 13 '42

Straightening heat-treated parts. J. B. Froblom. il diag Steel 110:82+ Je 8 '42

Sutton guideless bar straightening machine developed. il Iron Age 148:59 N 27 '41

Sutton straightening press. il Iron Age 148:72 D 4 '41

Sutton untwisting and straightening machine. il Blast F & Steel Pl 30:564-5 My '42; Iron Age 149:49 My 21 '42

Watson-Stillman straightening press of 50 tons capacity. il Ry Mech Eng 116:357 Ag '42

STRAIN gages

Characteristics and aircraft applications of wire resistance strain gages. A. V. de Forest. il Instruments 15:112-14+ Ap '42

Device for measuring tip force and current in spot welding. H. Wolfe and R. W. Powell. bibliog il diags Welding J 21:sup 293-6 Je '42

Electric strain gages for measuring loads on machine parts. F. Mittelberger. il diags Product Eng 13:337-9 Je '42

Electromagnetic strain gage. Metals & Alloys 15:271 F '42; Same. Blast F & Steel Pl 30:265 F '42; Same. Iron Age 149:49 Ja 29 '42

How to avoid overstress in machine parts; use of the electric strain gage. M. W. Hively. il diags Gen Elec R 44:621-3 N '41; Same. Steel 110:90+ My 18 '42

Oil-well pumping tests. H. E. Dralle and E. H. Lamberger. il diags Oil & Gas J 40:43-4, 46, 48 My 7 '42

Progress in structural design through strain-gage technique. C. R. Strang. il diags S A E J 50:346-57 Ag '42; Excerpts. Metals & Alloys 16:530+ S '42; Abstracts. Machine Design 14:66-7, 90, 92+ My '42; Automotive & Aviation Ind 86:40-3 Je 1; 87:40-2+ D 15 '42

Strain meters to measure plastic flow in Shasta dam. il Eng N 128:425 Mr 12 '42

Submersible magnetic strain gauge; has application in pumping wells. E. H. Lamberger and B. F. Langer. il diags Pet Eng (Annual no) 13:64, 66, 68 [Jl] '42

STRAINERS

Brassert automatic self-cleaning strainer. il Engineering 153:446 Je 5 '42

Micro-straining; a new development in water purification. P. L. Boucher. il Engineer 173:420-2, 445-7 My 22-29 '42

STRAINERS—*Continued*

Sand removal from well water; use of Brassert automatic self-cleaning strainers. G. L. Fugate. il diags Water Works & Sewerage 89:161-4 Ap '42

See also

Air filters
Filters and filtration
Oil filters
Screens

STRAINS and stresses

Analysis of shear stresses in aircraft shells. J. Meyer. bibliog diags Aero Digest 40:170, 172, 175-6+ My '42

Bond stress in concrete pull-out specimens. D. Watstein. il diags Am Concrete Inst J 13:37-50 S '41; Discussion. 13:sup52^{1}-52^{8} Je '42

Buckling of a column with non-linear lateral supports. H. S. Tsien. bibliog J Aeronautical Sci 9:119-32 F '42

Buckling of compressed bars by torsion and flexure. J. N. Goodier. 32p pa 50c Cornell univ, Engineering exp. station, Ithaca, N.Y. '41

Calculation of the stresses in annular frames. H. Fahlbusch and W. Wegner. diags Roy Aeronautical Soc J 45:349-60 N '41

Controlling the effect of contraction and included stresses in welded structures. A. E. Berriman. il diags Welding J 21:373-8 Je '42

Course on experimental stress analysis. J. Marin. bibliog il J Eng Educ 32:631-9 Ap '42

Design charts for tubes subjected to axial loads and combined stresses. W. C. Clayton. Aviation 41:169-70, 175 Jl '42

Designing for bending, twisting and axial loads. J. Marin. il diags Machine Design 14:79-83 S; 78-80+ O '42

Designing shrink-fit assemblies; fatigue stresses. J. Marin. il diags Machine Design 14:78-83+ Ag '42

Designing web-flange rivet connections for shear stresses. H. C. Martin. diags Aero Digest 41:162, 165-6+ S; 116-18+ O '42

Determination of strain distribution by the photo-grid process. G. A. Brewer and R. B. Glassco. il J Aeronautical Sci 9:1-7 N '41; Discussion. bibliog il 9:180, 371-2 Mr, Ag '42

Distribution of wind stresses in mast guys. C. M. Goodrich. Civil Eng 12:517-18 S '42

Earthquake stresses in frame structures. R. E. Glover. bibliog il Am Concrete Inst J 13:453-70 Ap '42

Effect of range of stress on the fatigue strength of metals. J. O. Smith. Ill U Eng Exp Sta Bul 334:1-52 bibliog(p47-9) '42

Effects of notching on strained metals. G. Sachs and J. Lubahn. bibliog diags Iron Age 150:31-8 O 8; 48-52 O 15 '42

Elastic theory for rubber. E. Latshaw. diags Franklin Inst J 234:63-73 Jl '42

Facts and fallacies of stress determination. J. O. Almen. il diags S A E J 50:52-61 F '42

Formulas for calculating press fits in aluminum rings. H. N. Hill. diag Product Eng 13:659 N '42

Fundamentals of stress analysis. A. Deyarmond and A. Arslan. 181p $2.35 Aero publishers, Glendale, Calif. '41

How to figure strain for wooden beams; chart. Brick & Clay Rec 100:22 Je '42

Influence of external stresses on tendency of brass wires to stress-corrosion crack, as indicated by the mercurous nitrate test. H. P. Croft. diag Am Soc T M Proc 41:905-17; Discussion. 928-30 '41

Intercrystalline cracking in boiler plates; prolonged-stress tests on iron and steel specimens immersed in hot sodium hydroxide solutions. C. H. M. Jenkins and F. Adcock. diags Iron & Steel Inst J 143:102-16, pl 12-14 no 1 '41

Intercrystalline cracking in boiler plates; some experiments on the behaviour of specimens of boiler plate and boiler joints subjected to slow cycles of repeated bending stresses while immersed in a boiling aqueous solution. H. J. Gough and H. V. Pollard. diags Iron & Steel Inst J 143:136-58, pl 21-7 no 1 '41

Intercrystalline cracking in boiler plates; strain-etch markings in boiler-plate material of acid open-hearth manufacture. F. Adcock and C. H. M. Jenkins. Iron & Steel Inst J 143:133-6, pl 19-20 no 1 '41

Internal stresses in cast iron rolls in relation to service conditions. N. Krupnik. Blast F & Steel Pl 30:164-5+, 268-70, 376-7 Ja-Mr '42

Interpretation of experiments on fatigue strength of metals subjected to combined stresses. J. Marin. bibliog diags Welding J 21:sup245-8 My '42

Investigations on shaft fillets. P. Grodzinski. diags Engineering 152:321-4 O 24 '41

Measured stresses in a two-hinged beam arch; Purdue University field house. P. E. Soneson. il diags Civil Eng 12:209-12 Ap '42

Measurement of stresses in car wheels. R. L. Kenyon and H. Tobin. il diags Ry Mech Eng 115:516-23; 116:6-14+ D '41-Ja '42

Mechanical properties of materials and design. J. Marin. 273p $3.50 McGraw-Hill '42

Method of defining failure in members subjected to combined stresses. J. Marin. bibliog Am Soc for Metals Trans 29:1013-21 D '41

Moments in I-beam bridges. N. M. Newmark and C. P. Siess. diags Ill U Eng Exp Sta Bul 336:1-145 '42 (pa $1)

Photoelastic study of stresses in gear tooth fillets. T. J. Dolan and E. L. Broghamer. il diags Ill U Eng Exp Sta Bul 335:1-42 '42 (pa 45c)

Practical method of allowance for shear lag. J. De S. Coutinho. il diags J Aeronautical Sci 9:471-7 O '42

Problems in the drawability of deep drawing sheets. M. Asimow and J. N. Crombie. diags Am Soc for Metals Trans 30:639-89 bibliog(248 titles, p674-89); Discussion. 689-94 S '42

Rectangular plate loaded along two adjacent edges by couples in its own plane. W. R. Osgood. J Research Nat Bur Stand 28:159-63 F '42

Relief of residual stress in streamline tierods. R. E. Pollard and F. M. Reinhart. bibliog pls J Research Nat Bur Stand 28:755-72 Je '42

Residual stress in butt-welded S.A.E. X4130 tubing. G. Sachs and T. Graham. il Welding J 21:sup122-5 Mr '42

Residual stress in SAE X4130 steel tubing. G. Sachs and C. H. Campbell. bibliog il Welding J 20:sup553-8 N '41

Residual stresses in welded structures. H. E. Rossell. diags Marine Eng 47:101-2+ F '42

Röntgenographische spannungsmessungen bei überschreiten der fliessgrenze an zugstäben aus unlegiertem stahl. F. Bollenrath, V. Hauk and E. Osswald. diag V D I 83:129-32 F 4 '39; Abstract (Residual stresses in pure tension revealed by X-ray diffraction method). Welding J 21:sup285-6 Je '42

Rosette method of stress measurements. R. L. Kenyon and H. Tobin. Ry Age 112:256+ Ja 24 '42

Rubber in shear; ellipse of component strains. E. Latshaw. diags India Rubber W 105:363-5 Ja '42

Shear distribution among three or more shear webs. H. W. Sibert. J Aeronautical Sci 9:133-4 F '42

Shear stresses in tapered beams. A. G. Pugsley and R. A. Weatherhead. diags Roy Aeronautical Soc J 46:218-26 S '42

State of stress in thick bars. M. M. Frocht and M. M. Leven. il J Ap Phys 13:308-13 My '42

Statistical analysis of service stresses in aircraft wings; abstract. H. W. Kaul. Roy Aeronautical Soc J 46:345 O '42

Strain hardening of gray cast iron. J. S. Peck. il Am Soc T M Proc 41:811-14; Discussion. 815 '41

Stress analysis of rings monocoque fuselages. N. J. Hoff. bibliog diags J Aeronautical Sci 9:245-51 My '42

Stress and electrical resistance. W. G. Jordan, jr. il Power Pl Eng 46:54-5 Ja '42

STRAINS and stresses—*Continued*

Stress concentration factors in main members due to welded stiffeners. W. R. Cherry. il diags Welding J 20:sup603-8 D '41

Stress concentrations in plates loaded over small areas. H. M. Westergaard. bibliog Am Soc C E Proc 68:509-34 Ap '42; Discussion. 68:1225-31, 1433-8, 1629-45 S-N '42

Stress distribution in welded tube connections. F. L. Tocher. bibliog diags Welding J 21: sup125-8 Mr '42

Stress-strain characteristics of cold-rolled austenitic stainless steels in compression as determined by the cylinder test method. R. Franks and W. O. Binder. bibliog il Am Soc T M Proc 41:629-45 '41

Stress-strain relationships in the drawing of metals. G. A. Brewer and M. M. Rockwell. il diags Metal Prog 41:806-10 Je '42

Stresses and distortion in high-speed welding. G. G. Landis. il diags Steel 110:74, 76+ Je 15 '42

Stresses developed in sections subjected to bending moment; an extension of the theory of bending to include the effect of stress-strain characteristic. J. L. Beilschmidt. diags Roy Aeronautical Soc J 46:161-80 Jl '42

Stresses in a rectangular knee of a rigid frame. W. R. Osgood. diags J Research Nat Bur Stand 27:443-8 N '41

Stresses in, and the deflexion of, circular flat plates, with a central hole, under normal forces. S. Labrow. diags Inst Mech Eng J & Proc 145:Proc 115-25 Je '41; Discussion. 146:Proc 136-40 Ja '42

Study of the collapsing pressure of thin-walled cylinders. R. G. Sturm. il diags Ill U Eng Exp Sta Bul 329:1-77 bibliog(p75-7) '41 (pa 80c)

Tapered beams. E. H. Atkin. diags Roy Aeronautical Soc J 46:227-36 S '42

Tensile elastic properties of nickel, copper, open-hearth iron, and typical steels. D. J. McAdam, jr. and R. W. Mebs. pls J Research Nat Bur Stand 28:311-78 bibliog(41 titles, p347-8) Mr '42

Tensile properties of some copper alloys. C. S. Smith and R. W. Van Wagner. Am Soc T M Proc 41:825-45; Discussion. 846-8 '41

Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9: 419-38 S '42

Theory for the buckling of thin shells. H. Tsien. bibliog diags J Aeronautical Sci 9: 373-84 Ag '42

Thrust and symmetrical bending in reinforced concrete. S. U. Benscoter. Civil Eng 12:214-16 Ap '42

Timber friction pile foundations. F. M. Masters. il diags Am Soc C E Proc 67: 1657-82 N '41

Torsional center determination in stressed skin structures. M. Watter. diags Aero Digest 40:145-6 F '42

See also

Airplanes—Design
Beams
Bending moment
Bridge design
Bridges—Load
Building
Columns
Concrete, Reinforced—Testing
Concrete construction—Design
Creep of materials
Creep of metals
Deformations (mechanics)
Earth pressure
Elasticity
Fatigue in metals
Girders
Hysteresis (mechanics)
Impact
Load (mechanics)
Photoelasticity
Riveting
Roofs
Saint-Venant's principle
Ships—Strains and stresses
Soil mechanics
Steel construction—Design
Strength of materials
Torsion
Trusses
Wind pressure

STRATEGY

China's weapon: wits; the third battle for Changsha. diags maps Fortune 26:96-100 S '42

See also

World war, 1939—Strategy

STRATFORD, Connecticut

See also

Housing—Stratford, Connecticut

STRATIGRAPHIC geology. See Geology, Stratigraphic

STRATOSPHERE. See Atmosphere, Upper

STRAW

Aspects of war time paper making in Great Britain; straw as a raw material. C. Delderfield and J. Grant. Paper Tr J 115:27-30 O 22 '42

Cereal straws in paper and rayon pulp manufacture; abstract. G. Jayme and others. Paper Ind 23:948 D '41

Rice straw pulped with nitric acid; abstract. I. Schimoda and M. Kono. Paper Ind 24: 652 S '42

Straw as a raw material for making paper and rayon pulps; abstract. G. Jayme. Chem & Met Eng 49:168 Ag '42

Straw for fine papermaking in England. Pulp & Pa of Can 42:774-5 D '41

Straw for industrial use, collection problems and quality. E. C. Lathrop and J. H. Shollenberger. il map Paper Tr J 114:46-53 My 14 '42

STRAW hats

History of the straw hat industry. J. G. Dony. 219p bibliog(p200-8) 10s 6d Gibbs, Bamforth & co, Luton, Eng. '42

STRAWBERRY HILL press

Bibliography

Bibliography of the Strawberry Hill press; with a record of the prices at which copies have been sold, together with a bibliography and census of the detached pieces. A. T. Hazen and J. P. Kirby. 300p $10 Yale univ. press '42

STRAWBRIDGE and Clothier

Recapitalization plan. Comm & Fin Chr 154: 1271-2 N 29 '41

STRAY currents

Anti-electrolysis relay; protecting gas pipes from stray currents. C. R. Davis and R. M. Wainwright. diag Electronics 15:72 Mr '42

STREAM flow

Entrainment of air in flowing water; open channel flow at high velocities. L. S. Hall. il Am Soc C E Proc 68:1100-40 S '42

Flow at high velocity in a curved rectangular flume; log chute. J. B. Macphail. diag plan Civil Eng 12:158-9 Mr '42

Hydraulic conditions at approach to a lock and dam; model-prototype conformity. W. J. Hopkins. il diags Am Soc C E Proc 68: 1369-77 O '42

Importance of considering side-wall friction in bed-load investigations. J. W. Johnson. Civil Eng 12:329-31 Je '42

Ohio stream drainage areas and flow duration tables. C. H. Wall and C. V. Youngquist. maps Ohio State U Eng Exp Sta Bul 111:1-73 '42 (pa 75c)

Profile curves for open-channel flow. D. F. Gunder. diags Am Soc C E Proc 68:535-42 Ap '42; Discussion. 68:1413-23, 1646-8 O-N '42

Testing theoretical losses in open channel flow. J. G. Jobes and J. H. Douma. il Civil Eng 12:613-15 N '42 (to be cont)

See also

Stream measurement
Water flow

STREAM measurement

Crest-stage meter for measuring static heads. M. H. Collet. diags Civil Eng 12:396 Jl '42

Development of the science of river measurement hydrology. J. C. Hoyt. bibliog il Civil Eng 12:324-6 Je '42

STREAM measurement—*Continued*

Early contributions to Mississippi River hydrology. C. S. Jarvis. Am Soc C E Proc 68:421-44 Mr '42; Discussion. 68:1232-6, 1670-4 S, N '42

Gage to measure crest stages of streams. G. E. Ferguson. il diags Civil Eng 12:570-1 O '42

Hydraulic structures; model-prototype conformity. J. E. Warnock and H. G. Dewey, jr. il diags Am Soc C E Proc 68:1269-94 O '42

Investigations of methods and equipment used in stream gaging. C. H. Pierce. diags U S Geol S Water-supply Pa 868-A:1-35, pl 1-27 (pa 55c); 868-B:37-75, pl 28-31 (pa 15c) Supt. of doc. '41

New gaging station for mountain streams; Forest Service installation combines San Dimas flume with two broad-crested weirs. H. G. Wilm. il diags Civil Eng 12:548-9 O '42

Surface waters of Missouri (stream-flow records) 1927-1939. H. C. Beckman. 900p Missouri geological survey and water resources, Rolla '40

STREAM pollution. See Water pollution

STREET accidents

Liability of individuals and municipalities regarding blackout accidents; English experience. E. C. Stiefel. Weekly Underw 146: 1151+ My 23 '42

Night safety bought cheaply; improved lighting in various cities with cost data on lighting and accidents. il Illum Eng 37:31-51 Ja '42

Public safety in Detroit as affected by street lighting. L. J. Schrenk. diags Illum Eng 36:1219-37; Discussion. 1237-45 D '41

See also

Automobile accidents
Street lighting—
  Safety aspects

STREET cars

Exhibits of transit equipment; rail cars and trolley buses; pictorial review. Transit J 86:336-7 S '42

It's time to talk about your cars in the barn. J. H. Collins. Pub Util 30:487-94 O 8 '42

Old 216 is back on the road; in every section of the country street cars have been put in service again to meet transportation demands. il Transit J 86:92-5 Mr '42

PCC car operating results in Pittsburgh; with cost data. W. J. Clardy. il map Elec Eng 61:Trans 214-17 Ap '42

PCC cars biggest year. il Mass Transportation 38:70-4 Mr '42

Street cars stage comeback. M. A. Jarrow. il Mass Transportation 38:235-6 S '42

Vehicle orders hit all-time high. Transit J 86:19-20 Ja '42

Vehicles and materials for transit. E. S. Pardoe. Transit J 86:381-2 O '42

See also

Car cleaning
Cars, Electric railroad
Street railroads
Trolley buses

Color

Color catches the eye; illustrations and descriptions of color schemes. Transit J 85: 452-3 D '41

Electric equipment

Car analyzer tests P.C.C. equipment. I. W. Lichtenfels. il diags Transit J 85:426-8 N '41

Exhibits of transit equipment; electric vehicle motors and control; pictorial review. Transit J 86:338-9 S '42

Lubrication

Reclamation helps the war effort; new car lubrication method; change in methods of packing; Philadelphia transportation company. il Transit J 86:90-1 Mr '42

Upholstery

Exhibits of transit equipment; seats and upholstery; pictorial review. Transit J 86: 342-4 S '42

STREET cleaning

Mechanical sweeping versus hand sweeping of public streets. I. R. Riker. il Pub Works 73:22-3 Ja '42

Street cleaning and refuse collection and disposal in nine cities of the United States, 1938-1941. C. A. Howland. 148p Bur. of municipal research, 905 Social service bldg, 311 S. Juniper st, Philadelphia '42

See also

Refuse collection
Snow removal

STREET lighting

Capacitors bolster street light circuit. Elec W 117:831-2 Mr 7 '42

Economies result from tests on constant-current transformers; street-lighting system; Idaho power company. J. F. Emery. diags Elec W 117:809-10 Mr 7 '42

Egham lighting case. Elec R (Lond) 130: 816 Je 26 '42; Electrician 128:648-9 Je 26 '42

Public blackout responsibilities. il Arch Forum 76:13 Ja '42

Ratio line loss to lamp energy. N. Henry. Elec W 118:312 Jl 25 '42

Street and highway lighting hints. Roads & Bridges 80:75 Ag '42

Street lighting during blackouts. Illum Eng 37:339-40 Je '42

Street lighting in Lorain follows progressive plan. E. J. Burger. il plan Elec W 116:1710-11+ N 29 '41

Street lighting, past, present and future; abstracts. G. H. Wilson. Electrician 128: 503 My 22 '42; Light & Lighting 35:71-2 Je '42

Street lighting under wartime conditions. J. S. Low. Roads & Bridges 80:90-1 Ap '42

Street-lighting waste and the electric power shortage. L. Mackler. Pub Util 30:231 Ag 13 '42

Use of street lighting evaluator. C. T. Bakeman. Elec West 88:83-5 Je '42

Visual aids to traffic movement under blackouts. W. S. Everett and K. M. Reid. diags map Illum Eng 36:1184-1203 bibliog(p1201-3); Discussion. 1203-4 D '41

See also

Roads—Lighting

Contracts

Electric supply during dimout; contracts must be performed and paid for, British court holds. Weekly Underw 147:6+ Jl 4 '42

Control

Blackout lighting control. il Elec West 88:33-4 Mr '42

Blackout of street lighting. G. A. Eddy. il diags Eng N 128:791-5 My 7 '42

Frequency blackout control. Elec West 88:59 Ap '42

Los Angeles street lights equipped for quick blackout. O. W. Holden. il Elec W 117: 1898, 1900+ My 30 '42

Low frequency remote control. P. J. Lazard. diags Elec W 116:2070 D 27 '41

Old loop controls new multiple system; street lighting New Orleans. P. A. Burvant. Elec W 117:1215 Ap 4 '42

Regulators aid sodium lighting operation; operating data on Tacoma highway lighting installations. P. A. Brown. il diags Elec West 88:38-9 Ja '42

Street light control for air raids. diags Elec W 117:1684 My 16 '42

Telephone rings lights off and on. diag Elec W 118:476 Ag 8 '42

Utility responsibilities in civilian defense; Philadelphia electric company. map Elec W 117:646-7 F 21 '42

Wired radio controls street light circuits. F. M. Fuller. il diag Elec W 116:1877+ D 13 '41; Abstract. Electronics 15:80+ F '42

Cost

Night safety bought cheaply; improved lighting in various cities with cost data on lighting and accidents. il Illum Eng 37:31-51 Ja '42

STREET lighting—*Continued*

Safety aspects

Dimout trebles traffic death rate. Elec W News ed 118:849-50 S 12 '42

Light must live; for safety on the streets. il Elec West 89:46 S '42

Los Angeles tests show sharp reduction in after-dark collisions; abstract. R. T. Dorsey. Illum Eng 37:198 Ap '42

Night safety bought cheaply; improved lighting in various cities with cost data on lighting and accidents. il Illum Eng 37:31-51 Ja '42

Planning a street lighting installation. A. J. Sweet. diags Illum Eng 36:1246-73; Discussion. 1274-85 D '41

Public safety in Detroit as affected by street lighting. L. J. Schrenk. diags Illum Eng 36:1219-37; Discussion. 1237-45 D '41

Street lighting aids production. D. M. Diggs. Roads & Bridges 80:54 Ap '42

Street lighting in war time; abstract. J. S. Dow. Pub Works 73:24 S '42

Tables, calculations, etc.

Graphical method of computing street lighting illumination charts. J. H. Dean. bibliog Illum Eng 37:417-22 Jl '42

STREET lighting fixtures

Old pendant units serve war effort; used to floodlight plant property. E. H. Richter. il diag Elec W 118:1294+ O 17 '42

Planning a street lighting installation. A. J. Sweet. diags Illum Eng 36:1246-73; Discussion. 1274-85 D '41

Plastics competition award to General electric co.; radial wave street reflector. il Mod Plastics 19:106-7 N '41

Splice damaged cable to conserve copper; street light standards. P. A. Burvant. diag Elec W 117:2104 Je 13 '42

STREET openings

Chicago subway station street decking. il diags plans Eng N 128:854-8 My 21 '42

Earth pressure measurements in open cuts, Chicago (Ill.) subway. R. B. Peck. diags Am Soc C E Proc 68:900-28 Je '42

Methods of handling street excavations. D. D. Gross. Am Water Works Assn J 34:1545-51 O '42

Replacing gas lines under city streets without disrupting traffic. L. S. Flint. il Gas Age 89:9 Ja 1 '42

STREET railroads

Burdened transit. Business Week p87-9 My 23 '42

Cable cars keep rolling; San Francisco's most picturesque transit vehicles now have new lease of life. il Transit J 86:164-5 My '42

Street cars stage comeback. M. A. Jarrow. il Mass Transportation 38:235-6 S '42

See also
Electric railroads
Rapid transit
Street cars
Subways
also subdivision Rapid transit under names of cities, e.g. Cleveland—Rapid transit; New York (city)—Rapid transit
also Boston elevated railway; Chicago surface lines

Accounting

Unredeemed ticket credits; practices of various companies. Transit J 86:145-6 Ap '42

See also American transit accountants association

Advertising

Posters build non-rush revenue; special events, trips to points of interest, etc. given publicity by New York City transit system. E. C. Giddings. il Transit J 85:418-20 N '41

War time themes for transit ads. il Transit J 86:100-3 Mr '42

Automobile competition

Huge loads are certain during the war years. C. Gordon. Transit J 86:46-9 F '42

Claims

See also American transit claims association

Costs

Expenses rise sharply; big expenditures to provide more service. Transit J 86:14-17 Ja '42

Employees

Getting acquainted; St Louis public service company instructs men in operation and maintenance of PCC cars. il Transit J 86:104 Mr '42

Manpower for transit operation. M. A. Kraft. Mass Transportation 38:298-9 O '42

Transit manpower problem. W. L. Butler; O. S. Beyer; M. A. Kraft. Transit J 86:375-9 O '42

Wages, hours, and working conditions of union street-railway employees, June 1, 1941. K. B. Mohn. Monthly Labor R 54:463-86 F '42

Training

Training and education of transit employes; university courses proposed; Capital transit company in leading rôle. il Mass Transportation 37:329-31 N '41

Equipment and supplies

Exhibit on paper; equipment, accessories and shop devices. il Mass Transportation 38:241-52 S '42

Exhibits of transit equipment; pictorial review. Transit J 86:326-52 S '42

High-rise tower truck. il Transit J 85:465 D '41

Making the old ones last; curtailed use of private automobiles has caused the Georgia power company to recondition 18 retired street cars and to purchase 23 second-hand units to provide additional service in Atlanta. il Transit J 86:242-3 Jl '42

New equipment, accessories and shop devices. Published in monthly numbers of Mass transportation

New equipment parade. Published in monthly numbers of Transit journal

Reclamation of ball and roller bearings; practices of various companies. Transit J 86:109-10 Mr '42

Reducing outage time of bucket cranes; preformed rope found to be advantageous. F. L. Spangler. il Mass Transportation 38:103 Ap '42

Transit's equipment outlook. E. S. Pardoe. il Transit J 86:309-11 S '42

Fare refunding

Fare refunds; practices of various companies. Transit J 86:218-19 Je '42

Finance

Further transit returns show gains for 1941. Transit J 86:278-9 Ag '42

Higher gross, taxes and net for transit in 1941. M. Buck. Transit J 86:171-3 My '42

Outlook for buses and trolleys improved. L. Edwards. il Barron's 22:9 F 16 '42

Third avenue transit corporation. O. Ely. Pub Util 30:661-2 N 5 '42

Franchises

Horse trades in steel rails in war time; rails are being swapped for franchise releases. J. H. Collins. Pub Util 29:745-9 Je '42

Inspection

Every 70 days they come in; standardized line inspection; P.C.C. cars of St Louis public service company. il plan Transit J 86:174-7 My '42

Maintenance and repair

How Montreal won Transit Journal maintenance award for 1941. il diags Transit J 85:422-5 N '41

Maintenance notebook. Published in monthly numbers of Transit journal

Maintenance; the no.1 problem of the future. R. H. Stier. il Transit J 86:318-21 S '42

STREET railroads—Maintenance and repair—*Continued*

Reclamation helps the war effort; Philadelphia transportation company. il Transit J 86:88-91 Mr '42

Substitute degreasing methods; experiences of various companies. Transit J 86:75-6 F '42

Winners chosen in Transit Journal maintenance contest. Transit J 86:384 O '42

Management

Carrying 18 billion riders a year; industry must adopt new methods. W. R. Pollard. il Transit J 86:55-6 F '42

How mass transportation is conducted in Columbus. M. A. Jarrow. il plan Mass Transportation 38:172-9+ Jl '42

How mass transportation is conducted in Dallas. M. A. Jarrow. il Mass Transportation 38:120-8 My '42

How mass transportation is conducted in Denver. il Mass Transportation 38:96-100 Ap '42

How mass transportation is conducted in Louisville. il Mass Transportation 38:34-42 F '42

How mass transportation is conducted in Memphis. M. A. Jarrow. il Mass Transportation 38:278-84 O '42

How mass transportation is conducted in Toledo. il Mass Transportation 37:351-8 D '41

PCC car operating results in Pittsburgh; with cost data. W. J. Clardy. il map Elec Eng 61:Trans 214-17 Ap '42

Using transit's machine to best advantage. G. A. Richardson. il Transit J 86:52-3 F '42

Radio telephone

Radio communications installed at St Louis and Cleveland. il Transit J 85:416-17 N '41

WAYH on the air! short-wave FM radio installation provides mobile emergency supervision and repair service for Chicago surface lines. il map Transit J 86:236-8 Jl '42; Excerpts. Electronics 15:63 S '42

Securities

Status of Cincinnati street railway bonds. Barron's 22:19 Ja 26 '42

Service

Navy and transit company attack Norfolk problem. H. F. Hammond. Transit J 86:272-4 Ag '42

Shops

Exhibits of transit equipment; devices for shop work; pictorial review. Transit J 86:350-2 S '42

Statistics

Huge loads are certain during the war years. C. Gordon. Transit J 86:46-9 F '42

Transit progress in 1941; statistics; revenue, costs, rolling stock, etc. Transit J 86:9-27 Ja '42

Stops

Skip-stop plans; experiences of various companies. Transit J 86:180-1 My '42

Terminals

Car and bus loops promote safety; Philadelphia transportation co. il Transit J 86:32-3 Ja '42

Tickets

Unredeemed ticket credits; practices of various companies. Transit J 86:145-6 Ap '42

Track

Horse trades in steel rails in war time; rails are being swapped for franchise releases. J. H. Collins. Pub Util 29:745-9 Je 4 '42

Mechanical rail removers speed salvage of car rails. il Iron Age 150:94-5 Jl 30 '42

Rebuilding the world's busiest intersection; Chicago surface lines has to reconstruct important trackwork. il Transit J 86:68-70 F '42

Removal of abandoned rail; WPA labor; methods; experiences of various companies. Transit J 85:468-70; 86:75 D '41, F '42

Salvaging two thousand tons of street car rails for war needs. M. M. Smith. il Pub Works 73:11-13+ Ag '42

Track rebuilding under difficult conditions; downtown trackage rebuilt by Chicago surface lines. il Mass Transportation 38:206 Ag '42

Track pavement

Internal vibration of concrete. F. Wackenhut. diags Transit J 85:465-6 D '41

Traffic

Basic principles for staggered hours studies; abstracts. H. S. Simpson. Mass Transportation 38:296-8 O '42; Transit J 86:382-3 O '42

Hour-staggering halves Los Angeles peaks. L. S. Flint. il Transit J 86:209-11 Je '42

In the vanguard for staggered hours; Dallas railway & terminal company, in cooperation with civic bodies, is working out plan Transit J 86:127-9 Ap '42

No royal road to staggered hours; how Providence, R.I. is solving problem. E. F. Theisinger. il Bus Transportation 21:398-401 S '42

San Diego, where every hour is rush hour. L. S. Flint. il Bus Transportation 21:462-6 O '42

Toward the twenty billion mark. C. Gordon. Transit J 86:366-9 O '42

Transfers

Intercompany transfers; practices of various companies. Transit J 86:217-18 Je '42

Trolley bus substitution

Trolley coaches do it again; conversion in Honolulu. il Transit J 85:421 N '41

War problems

See Street railroads in war

Canada

Conserving transportation. H. C. Patten. Transit J 86:374-5 O '42

Prayer for rain answered by a deluge; transit conditions in Canada. I. S. Fairty. il Transit J 86:203-5 Je '42

Great Britain

Practical problems of transit in war time. W. V. Moreland. il Transit J 85:412-15 N '41

STREET railroads in war

Old 216 is back on the road; in every section of the country street cars have been put in service again to meet transportation demands. il Transit J 86:92-5 Mr '42

Practical problems of transit in war time. W. V. Moreland. il Transit J 85:412-15 N '41

San Diego, where every hour is rush hour. L. S. Flint. il Bus Transportation 21:462-6 O '42

Street car's part in the war. G. A. Richardson. Mass Transportation 38:224-5 S '42

Trolley revivified. Business Week p18 Ap 4 '42

Wartime transit problems in Baltimore, Philadelphia, Montreal, San Diego, Chicago. B. Hill and others. Mass Transportation 38:226-37 S '42

See also

Rapid transit in war

STREET traffic

Los Angeles' street traffic problem; curb parking of motor vehicles. E. E. East. il Civil Eng 12:435-8 Ag '42

Parking problem in the business district, with special reference to California cities. J. G. Marr. il Civil Eng 12:21-3 Ja '42

Staggered hours for defense; abstract. W. A. Van Duzer. Roads & Bridges 80:106 Mr '42

Traffic segregation design keeps them rolling. il plan Roads & Sts 85:54, 56+ My '42

STREET traffic—*Continued*

Visual aids to traffic movement under blackouts. W. S. Everett and K. M. Reid. diags map Illum Eng 36:1184-1203 bibliog(p1201-3); Discussion. 1203-4 D '41

See also

Automobile laws and regulations
Automobile parking
Road traffic
Traffic regulations
Tunnels and tunneling—Vehicular tunnels

STREETS

Management of public works equipment and supplies in Toledo. R. T. Anderson. il Pub Works 73:22-4+ Ap '42

Snow removal from city streets; methods and costs of winter maintenance in typical Canadian municipalities. Roads & Bridges 80:103 F '42

See also

City planning
Parkways
Pavements
Pipe lines
Roads
Snow removal
Street lighting
Street traffic

Cost

Paving and widening street, Pennsylvania; unit prices. Eng N 128:828 My 14 '42

Intersections

Portable overpass; Le Tourneau's lightweight over-pass offers a new, ingenious and practical solution for traffic problem. il Arch Forum 75:sup14 D '41

Portable overpass reduces traffic snarls; Tournapass. il Comp Air M 47:6691 Mr '42

Law

Men at work vs. onlookers; accident in laying water pipe. L. Childs. Water Works & Sewerage 88:570 D '41

Maintenance and repair

Shaving puts new face on pavement. il Roads & Sts 85:54 Mr '42

Smoothing corduroyed roads in Springfield, Mo. L. A. Weeks. il Pub Works 73:17-18 O '42

Street maintenance practices; patching bituminous surfaces. il Pub Works 73:16-17+ Jl '42

Street maintenance practices; patching cement concrete pavements. il Pub Works 73:25, 28 Ag '42

Street maintenance practices; when to patch and when to resurface. il Pub Works 73:14-15+ My '42

Widening

Street widening with heavy equipment; Lombard street, San Francisco. il Roads & Sts 85:29-31 Jl '42

STRENGTH of materials

Aircraft welding; strength of fusion welds; nomographic chart; reference book sheet. R. R. Wiese. Product Eng 13:119-20 F '42

Bearing strength; plastics and plywood. J. Bond. il Mod Plastics 19:70-3+ Jl '42

Calculation and graphical representation of the fatigue strength of structural joints. Welding J 21:sup87-93 F '42

Chassis frames; determining torsional strength by calculation. H. Bürger. Automobile Eng 32:9-11 Ja '42

Effect of strain rate upon the tensile impact strength of some metals. E. R. Parker and C. Ferguson. bibliog il diags Am Soc for Metals Trans 30:68-80; Discussion. 80-5 Mr '42

Effect of weld spacing on the strength of spot-welded joints. R. Della-Vedowa and M. M. Rockwell. il diag Welding J 21:sup514-23 O '42

Endurance limit; its importance in determining allowable stress. H. W. Hamm. chart Product Eng 12:650-1 D '41

Engineer looks at plastics. J. R. Townsend. Mod Plastics 19:56-7+ F '42

Fatigue comparison of 7-in. diameter solid and tubular axles. O. J. Horger and T. V. Buckwalter. il Am Soc T M Proc 41:682-93; Discussion. 694-5 '41

Fatigue strength improved by flame treatment. O. J. Horger and T. V. Buckwalter. bibliog il diags Iron Age 148:47-53 D 18 '41

Fatigue strength of commercial butt welds in carbon-steel plates. W. M. Wilson. il diag Welding J 21:sup491-6 O '42

Fatigue strength of crankshafts. C. G. Williams and J. S. Brown. il diags Engineering 154:58-9, 78-80 Jl 17-24 '42

Fatigue strength of welded joints; a review of the literature from October 1936 to September 1941. W. Spraragen and D. Rosenthal. bibliog(127 references) il diags Welding J 21:sup297-348 Jl '42

Fretting corrosion and fatigue strength: brief results of preliminary experiments. E. J. Warlow-Davies. bibliog Inst Mech Eng J & Proc 146:Proc 32-8 pl 1-2 N '41; Discussion. 147:Proc 83-7 My '42

Hardness test as a means of estimating the tensile strength of metals. W. J. Taylor. Roy Aeronautical Soc J 46:198-209 Ag '42

Heavy load tests on a plywood girder; civil engineering laboratory of Carnegie institute of technology. C. W. Muhlenbruch. il diags Eng N 129:31-3 Jl 2 '42

High-temperature strength characteristics available for design of cracking-still tubes. C. L. Clark. Oil & Gas J 40:33-4 Ja 8 '42

Impact strength of copper. M. Cook and E. C. Larke. Engineering 153:437 My 29 '42

Mechanical properties of materials and design. J. Marin. 273p $3.50 McGraw-Hill '42

Physical properties of driven and undriven rivets of high-strength structural steels; progress report of the committee of the structural division on structural alloys. il diags Am Soc C E Proc 68:751-73 My '42

Statistical theory of the effect of dimensions and of method of loading upon the modulus of rupture of beams. J. Tucker, jr. bibliog Am Soc T M Proc 41:1072-88; Discussion. 1089-94 '41

Strength analysis of riveted and bolted joints. W. A. McGowan. diags Aviation 41:91-2, 95-6, 99+ Ap; 105, 107, 109, 111-12+ My '42

Strength and properties of materials. J. Elberfeld. 150p $1.75 Harper '42

Strength of plastic-bonded plywood. G. B. Parsons. bibliog il diags Mod Plastics 19:74-9, 110, 112+ Ag '42; Same. Aero Digest 41:160, 162, 165+ Jl; 140+ Ag '42

Strength of plastics; data for thermosetting compounds; comparison with woods and metals. H. R. Moyer. Product Eng 13:379-81 Jl '42

Strength research on Armco emergency wood pipe. Roads & Sts 85:77 Ag '42

Study of the collapsing pressure of thin-walled cylinders. R. G. Sturm. il diags Ill U Eng Exp Sta Bul 329:1-77 bibliog(p75-7) '41 (pa 80c)

Temperature vs. strength for phenolics. T. S. Carswell, D. Telfair and R. U. Haslanger. bibliog Mod Plastics 19:65-9 Jl '42

Tension and compression stress-strain characteristics of cold-rolled austenitic chromium-nickel and chromium-manganese-nickel stainless steels. R. Franks and W. O. Binder. bibliog J Aeronautical Sci 9:419-38 S '42

Tests of cylindrical shells. W. M. Wilson and E. D. Olson. il diags Ill U Eng Exp Sta Bul 331:1-129 '41 (pa $1)

Use of plastics in building. R. J. Schaffer. bibliog Chem & Ind 61:357-61 Ag 22 '42

See also

Building materials
Concrete—Strength
Deformations (mechanics)
Elasticity
Fatigue in metals
Glass—Strength
Hardness
Metals—Testing
Steel—Testing
Strains and stresses
Structures, Theory of
Testing
Trusses
Wood—Strength
Wood—Testing

STREPTOCOCCI

Chemotherapeutic action of a N-phosphoryl derivative of 4-4′-diaminodiphenylsulfone. M. I. Smith, S. M. Rosenthal and E. L. Jackson. bibliog Pub Health Rep 57:1534-42 O 9 '42

STREPTOCOCCI—*Continued*

Effect of humidity on beta streptococci (group C) atomized into air. W. F. Wells and P. Zappasodi. bibliog Science 96:277-8 S 18 '42

Pathogenic bacteria in public places. W. G. Walter and G. J. Hucker. Soap & San Chem 18:99, 101, 103, 105 F '42

2-Phenyloxazole and ortho-substituted derivatives. W. E. Cass. bibliog Am Chem Soc J 64:785-7 Ap '42

Studies on the hemolytic streptococcus; the electrophoretic isolation of the erythrogenic toxin of scarlet fever and the determination of its chemical and physical properties. L. E. Krejci and others. Franklin Inst J 233:402-3 Ap '42

STRESSES. See Strains and stresses

STRETCHERS (litters)

Canvas lining for basket stretcher. C. Leggo and A. F. Riemke. il Ind Med 11:78-9 F '42

Steel stretchers for war use made of second-hand steel pipe, with joints electrically welded. F. W. Klay. diags Sheet Metal Worker 33:34 S '42

Stretcher-splint developed to facilitate first aid. W. W. Dartnell. il diags Coal Age 47:65-6 Ja '42

STRIKES

Acts hindering defense production are sabotage. J. W. Bailey. Manuf Rec 110:26-7+ N '41

Air Associates plant in Bendix seized after Mediation board efforts fail. Comm & Fin Chr 154:1039 N 13 '41

Akron's latest; General Tire's workers walk out over rehiring of aliens. Business Week p73-4 Jl 4 '42

All clear on the labor front. Business Week p72-3 D 13 '41

Bache co. questions WLB's intervention. Comm & Fin Chr 156:1631 N 5 '42

Boss union nicked; San Francisco hotel owned by outsider signs up with A.F.L. unions. il Business Week p18+ N 15 '41

City's food; drive to organize grocery clerks in Pontiac, Mich. ends in one-day factory tie up. Business Week p71+ Ag 8 '42

Drivers pacified? work-sharing is seen as solution of Pittsburgh Press impasse. Business Week p75 Ag 8 '42

Federal conciliator to adjust strike of J. S. Bache employes. Comm & Fin Chr 156:1439 O 22 '42

Further restriction on strikes in Canada. Monthly Labor R 53:1155-6 N '41

Hotel men fight strike with advertising technique learned from farm groups. J. E. Pickett. Ptr Ink 198:17+ F 6 '42

It's the weather. Business Week p74 Jl 11 '42

Keep open shop; settlement of the five-month strike of San Francisco department store clerks. Business Week p66 F 28 '42

Labor crisis. Nat City Bank p135-9 D '41

Labor: public issue no. 1; what should be done. H. F. Travis. il Mag of Wall St 69:180-2+ N 29 '41

Number of strikes mounting again. S. G. Thompson. Barron's 22:4 Mr 2 '42

President orders seizure of General Cable plant. Elec W 118:625 Ag 22 '42

Reports sharp drop in strikes in war plants. W. H. Davis. Comm & Fin Chr 155:1715 Ap 30 '42

State mediators withdraw from efforts to settle strike of J. S. Bache co. employees. Comm & Fin Chr 156:1251+ O 8 '42

Strike law coming. Business Week p14-15 N 29 '41

Strikers find Uncle Sam tough boss; ask plant be returned to owners; General cable co. Steel 111:22-3 Ag 24 '42

Strikes in defense industries. 299p U.S. Lib. of Congress, Legislative reference service, Washington; pa 25c Supt. of doc. '41

Strikes in the Pacific Northwest, 1927-1940. J. Blanchard and D. Terrill. 32p pa 50c Northwest regional council, 606 Bedell bldg, Portland, Ore. '42

Strikes in wartime: experience with controls. E. E. Witte. Ann Am Acad 224:128-34 N '42

United States breaks strike; Arkwright crisis. Business Week p67-9 Je 27 '42

WLB adopts three point program to end wildcat strikes slowing war production. Comm & Fin Chr 156:1641 N 5 '42

Welders again; strike brings swift government wrath. Business Week p16 F 7 '42

Welding a peace; solution may be universal transfer card; controversy between Pacific Coast welders and the A.F.L. metal trades department. Business Week p69+ N 15 '41

West Coast welders' strike. Monthly Labor R 54:662-4 Mr '42

What Congress is likely to do. Mag of Wall St 69:182 N 29 '41

See also

Arbitration, Industrial
Coal strikes
Labor disputes
Picketing
Railroad strikes
Trade unions

also National defense mediation board

Sit-down strikes

Sit-down strikes on vessels ruled mutiny. Comm & Fin Chr 155:1633 Ap 23 '42

Statistics

How many strikes? Barron's 22:1 Ag 10 '42

Industrial disputes in 1941. Survey of Cur Business 21:4-6 D '41

Man-days idle during strikes, 1940-March 1942; chart. Survey of Cur Business 22:2 My '42

Recent strikes; July and seven months' period. Monthly Labor R 53:1186-99 N '41

Strikes in 1941. D. Q. Crowther. map Monthly Labor R 54:1107-29 My '42

Strikes in September 1941. Monthly Labor R 54:82-94 Ja '42 [cont monthly]

Strikes since the declaration of war. Monthly Labor R 54:1129-32 My '42

Success record for strikers; results of strikes to workers involved, 1927-1941; chart. Dun's R 49:36 O '41

STRINGS (music)

Canadian-made musical-instrument strings. For Comm W 5:40 N 15 '41

STRIP steel. See Steel, Strip

STRIPPING. See Coal mines and mining—Stripping operations; Mining methods—Stripping operations

STRIPPING of paint. See Paint—Removal

STROBOSCOPIC instruments

Aids for analyzing high-speed action. E. M. Watson. il Gen Elec R 44:549-57 O '41; Same cond. Electrician 128:95-7 F 6 '42

Electrical characteristics of stroboscopic flash lamps. P. M. Murphy and H. E. Edgerton. il diags J Ap Phys 12:848-55 D '41

How to provide for inspection of repeated pattern travelling too fast to be seen by unaided vision; stroboscopic equipment in color printing of cloth. A. P. Mansfield. il diag Gen Elec R 44:633-4 N '41

Intelligent use of Strobotac in the spinning room. R. W. Mitchem. il Textile World 92:80-3 O '42

Meter tables combine strobo and photoelectric. L. D. Price. il Elec W 118:1262-3 O 17 '42

New test set aids meter research. G. J. Wey. il diag Elec W 117:2082 Je 13 '42

STROMATOLITES. See Algae, Fossil

STRONG, Wendell Melville, 1871-1942

Sketch. por East Underw 43:3 Ap 3 '42

STRONTIANITE

Strontium minerals. C. L. Harness. U S Bur Mines Information Circ 7200:1-17 '42

STRONTIUM

β-ray spectra of rubidium^{86}, strontium^{89}, ekatantalum, and protactinium. E. Haggstrom. diags Phys R 62:144-50 Ag 1 '42

Isolation of radioactive yttrium and some of its properties in minute concentrations. J. D. Kurbatov and M. H. Kurbatov. bibliog J Phys Chem 46:441-57 Ap '42

Strontium minerals. C. L. Harness. U S Bur Mines Information Circ 7200:1-17 '42

STRONTIUM—*Continued*

Analysis

Blank and background effect on photographed spectral lines. L. W. Strock. bibliog Opt Soc Am J 32:103-11 F '42

Determination of strontium in the presence of calcium. P. B. Stewart and K. A. Kobe. Ind & Eng Chem Anal ed 14:298-9 Ap 15 '42

Solubility of strontium chromate and the detection of strontium. T. W. Davis. bibliog Ind & Eng Chem Anal ed 14:709-11 S 15 '42

STRONTIUM alloys

Alkaline earth metals and their alloys; increasing technical importance. O. Einerl and F. Neurath. bibliog Chem Age (Lond) 47:107-11 Ag 1 '42

X-ray study of the calcium-strontium alloy series. A. J. King. Am Chem Soc J 64: 1226-7 My '42

STRONTIUM carbonate

Adsorption by strontium salts of traces of iron from caustic soda solutions. W. E. Caldwell and C. A. Boyd. bibliog Ind & Eng Chem 34:230-3 F '42

Industrial uses of chemicals. Oil Paint & Drug Rep 141:57 F 16 '42

STRONTIUM chloride

Activity coefficients of strontium chloride by an isopiestic method. B. A. Phillips, G. M. Watson and W. A. Felsing. bibliog diags Am Chem Soc J 64:244-7 F '42

Industrial uses of chemicals. Oil Paint & Drug Rep 141:50 F 2 '42

Rapid procedure for determination of carbonate. A. C. Kuyper and L. M. Jones. Ind & Eng Chem Anal ed 13:801-2 N 15 '41

STRONTIUM chromate

Industrial uses of chemicals. Oil Paint & Drug Rep 141:58 F 9 '42

Solubility of strontium chromate and the detection of strontium. T. W. Davis. bibliog Ind & Eng Chem Anal ed 14:709-11 S 15 '42

STRONTIUM hydroxide

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:57 Mr 2 '42

STRONTIUM nitrate

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

System $Ca(NO_3)_2$-$Sr(NO_3)_2$-H_2O at 25 and 60°. K. A. Kobe and P. B. Stewart. bibliog Am Chem Soc J 64:1301-3 Je '42

STRONTIUM oxides

Industrial uses of chemicals. Oil Paint & Drug Rep 141:59 Mr 16 '42

STRONTIUM sulfate

Adsorption by strontium salts of traces of iron from caustic soda solutions. W. E. Caldwell and C. A. Boyd. bibliog Ind & Eng Chem 34:230-3 F '42

STRONTIUM sulfide

Industrial uses of chemicals. Oil Paint & Drug Rep 141:57 F 16 '42

Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

STRUCTURAL clay products institute, Washington, D.C.

Annual meeting, Washington, Nov. 4-6. Brick & Clay Rec 99:24-6+ N '41

STRUCTURAL engineering

Analytical and experimental methods in engineering seismology. M. A. Biot. il diag Am Soc C E Proc 68:49-69 Ja '42; Discussion. 68:603-11, 822-6, 1023-30, 1261, 1623-6 Ap-Je, S, N '42

Current construction practice. H. W. Hunt. il Eng N 128:105-6 Ja 15 '42

Engineering essentials for welders. H. M. Priest. il diags Welding J 21:230-51 Ap '42

Progress in the structural elements of buildings. T. L. Condron. il diags W Soc E J 47:208-38 O '42

See also

Bridge design
Building
Civil engineering
Concrete construction
Foundations
Gas holders
Retaining walls
Steel construction
Strains and stresses
Strength of materials
Structures, Theory of
Wind pressure

Design

Army warehouse design saves steel. il Eng N 128:204-6 Ja 29 '42

Beams with moment of inertia doubled near the ends. A. Barjansky. Civil Eng 12:332-3 Je '42

Bending moments in the walls of rectangular tanks. D. Young. diags Am Soc C E Proc 67:1683-96 N '41; Discussion. 68:303-4 F '42

Brickwork as seen by the engineer; with cost data. E. E. Seelye. diags Eng N 127: 724-9 N 20 '41

Building design as an art. J. W. Pickworth. Civil Eng 12:539-40 O '42

Correct design of rigid structures. O. Gottschalk. diags Franklin Inst J 232:553-78 D '41

Deflection of beams under simultaneous axial and transverse loads. A. G. Strandhagen. diags Product Eng 13:396-8 Jl '42

Deflection of trusses. R. P. V. Marquardsen. W Soc E J 47:35-40 F '42

Designing for thin walled sections. E. J. W. Ragsdale. il diags Boston Soc C E J 29:110-19 Ap '42

Effect of wind on hangar footings by moment distribution. S. U. Benscoter. diags Civil Eng 12:457-8 Ag '42

Elementary structural analysis and design; steel, timber, and reinforced concrete. L. E. Grinter. 383p $3.75 Macmillan '42

Flexure of continuous beams and beams with fixed ends. A. L. Egan. Engineering 152: 341-2 O 31 '41

Foundations. R. R. Minikin. diags Engineer 172:428-30, 448-50 D 19-26 '41

Foundations for buildings; settlement problems encountered in the design of spread footings. J. Feld. il diags Civil Eng 12:13-16 Ja '42

Lateral stability of unsymmetrical I-beams and trusses in bending. G. Winter. diags Am Soc C E Proc 67:1851-64 D '41; Discussion. 68:299-302, 477-9, 1404-6 F-Mr, O '42

Light alloys in design. E. W. Thomas. Engineering 152:482-3 D 19 '41

Material shortages; redesign and substitution. H. L. Whittemore. Eng N 128:112-14 Ja 15 '42

Measured stresses in a two-hinged beam arch; Purdue University field house. P. E. Soneson. il diags Civil Eng 12:209-12 Ap '42

Measurement of cohesive soil properties applied to engineering design. W. S. Housel. il diags Civil Eng 12:442-5 Ag '42

Mechanics of creep for structural analysis. J. Marin. bibliog diags Am Soc C E Proc 68:719-35 My '42; Discussion. 68:1205-15 S '42

Moment balance; a self-checking analysis of rigidly jointed frames. R. J. Cornish. diags Am Soc C E Proc 68:683-90 My '42; Discussion. 68:775-80, 1067-70, 1239-43, 1449-51, 1649-54, 1826-30 My-Je, S-D '42

Proposed live-load reduction formula for buildings. C. W. Barber. Civil Eng 12:194-5 Ap '42; Discussion. J. Jones. 12:278 My '42

Rational planning for post-war design. E. W. Thomas, W. F. Cassie and A. H. A. Hogg. Engineering 154:135-6 Ag 14 '42

Riveted fastenings. E. C. Posner. il diags Product Eng 13:446-50 Ag '42

Stress concentrations in plates loaded over small areas. H. M. Westergaard. bibliog Am Soc C E Proc 68:509-34 Ap '42; Discussion. 68:1225-31, 1433-8, 1629-45 S-N '42

Tubes combined with rolled shapes in structural design. H. S. Card. il diags Iron Age 149:56-9 My 21 '42

STRUCTURAL engineering—Design—*Cont.*

Vibration periods of structures. H. M. Engle. Eng N 128:859-62 My 21 '42

See also

Airplanes—Design
Bridge design
Cars—Design
Concrete construction—Design
Platforms
Steel construction—Design
Strains and stresses
Strength of materials

Models

Determining the deflection of structures with models. W. J. Eney. il diags Civil Eng 12:150-1 Mr '42

Present status of three-dimensional photoelasticity. R. D. Mindlin. bibliog il diag Civil Eng 12:255-8 My '42

Study and teaching

Course on experimental stress analysis. J. Marin. bibliog il J Eng Educ 32:631-9 Ap '42

Trained timber designers needed. H. J. Hansen. il Civil Eng 12:607-10 N '42

Tables, calculations, etc.

Beams of variable moment of inertia; the computation of fixed end moments, sidesway moments, stiffnesses and carry-over factors. J. B. Wilbur. diags Boston Soc C E J 29:264-85 O '42

Direct computations for the sidesway of bents. A. Barjansky. Civil Eng 12:623-5 N '42

Numerical procedure for computing deflections, moments, and buckling loads. N. M. Newmark. bibliog diags Am Soc C E Proc 68:691-718 My '42; Discussion. 68:783-7, 1037-8, 1247-60, 1455-7, 1655-8 My-Je, S-N '42; reprinted without discussion Ill U Eng Exp Sta Reprint Ser 23 pa 15c

Relationship between bending moments in columns and beams. A. G. Strandhagen. Civil Eng 12:625-6 N '42

Solving a frame of multiple redundancy by method of least work. W. H. M. Laughlin. diags Civil Eng 12:394-5 Jl '42; Discussion. 12:573 O '42

Solving for moments in a continuous beam by one unknown. J. C. Rathbun. Civil Eng 12:569-70 O '42; Discussion. 12:688-9 D '42

Table of fixed-end moments. C. J. Posey. Eng N 127:671 N 6 '41; Discussion. 128:502 Mr 26 '42

Tables save much time in calculating fixed-end moments. M. W. Rosenstein. diag Eng N 128:994 Je 18 '42

Variation of elastic characteristics on statically indeterminate quantities. A. Hrennikoff. diags Am Soc C E Proc 68:71-93 Ja '42; Discussion. 68:661-4, 819-21, 1427-32; 69:145-7 Ap-My, O '42, Ja '43

See also

Bridge design
Concrete construction—Design
Steel construction—Design

STRUCTURAL aluminum. See Aluminum, Structural

STRUCTURAL glass. See Glass, Structural

STRUCTURAL steel. See Steel, Structural

STRUCTURES, Theory of

Elastic energy theory. J. A. Van den Broek. 2d ed 298p $4.50 Wiley '42

Structural theory. H. Sutherland and H. L. Bowman. 3d ed 368p $3.75 Wiley '42

See also

Bending moment
Building
Load (mechanics)
Strains and stresses
Strength of materials
Structural engineering

STRUTS, Airplane. See Airplane struts

STRYCHNINE

Electrolytic reduction of strychnine. B. M. G. Zwicker and R. J. Robinson. bibliog Am Chem Soc J 64:790-3 Ap '42

STRYCHNINE molybdate

Detection of orthophosphates by means of drop reactions. P. W. West and T. Houtman. bibliog Ind & Eng Chem Anal ed 14:597-9 Jl 15 '42

STRYCHNINE sulfate

Solubility of strychnine acid sulfate in sulfuric acid. B. M. G. Zwicker and R. J. Robinson. Am Chem Soc J 63:3538 D '41

STUART-LINTON, Charles E. T.

Insurance agent is liaison officer of British information services. por East Underw 42:7 N 14 '41

STUDEBAKER family

More than you promise; a business at work in society. K. A. Smallzried and D. J. Roberts. 336p bibliog(p322-5) $3.50 Harper '42

STUDEBAKER corporation

Motor cars to munitions. il Am Mach 86:605-8 Je 11 '42

Studebaker dealers' shops pioneer in bits and pieces output. Iron Age 150:86, 88 O 22 '42

Studebaker's sales department in wartime; helping dealers. Barron's 22:8-9 N 2 '42

STUDENT loans

Chemistry, drug student loan rules issued. Oil Paint & Drug Rep 142:7+ Ag 31 '42

Operating procedure and purpose of Smith educational fund. Ins Field (Fire ed) 70:8-9 D 11 '41; East Underw 42:74 D 12 '41

Training financed; Morris Plan will supply funds for instruction, board, and room at Miami aircraft school. Business Week p70 Mr 28 '42

STUDENT tours

See also

Motor bus lines—Student tours

STUDENTS

Work experience in education. W. C. Seyfert and P. A. Rehmus, eds. 65p pa 50c Graduate school of education, Harvard univ., Cambridge, Mass. '41

See also

College students
Engineering students

STUDIO apartments

Four studio apartments, Pasadena, Calif.; views and plans. Arch Forum 76:230-1 Ap '42

STUDIOS

See also

Moving picture studios
Photography—Studios and darkrooms
Radio broadcasting studios
Television studios

STUDS. See Bolts and nuts

STUDY, Method of

Aids to successful study. P. Hopkins. 164p 5s G. Allen & Unwin, London '41

STUTTERING. See Stammering

STYLUSES

Large radius stylus for the reproduction of lateral cut phonograph records. J. D. Reid. diags Acoustical Soc Am J 13:274-5 Ja '42

Properties of the dulled lacquer cutting stylus. C. J. LeBel. diags Acoustical Soc Am J 13:265-73 Ja '42

Theory and practice of disc recording; cutting and playback styli. O. Read. il diags Radio N 26:27-8+ D '41

Tracing distortion in the reproduction of constant amplitude recordings. L. W. Sepmeyer. Acoustical Soc Am J 13:276-80 Ja '42

STYRAMIC

Styramic for high frequency insulation. T. S. Carswell and R. F. Hayes. il Mod Plastics 19:68-70+ F '42

STYRENE

Addition of maleic anhydride and ethyl maleate to substituted styrenes. B. J. F. Hudson and R. Robinson. Chem Soc J p715-22 N '41

Addition polymerization catalyzed by substituted acyl peroxides. C. C. Price, R. W. Kell and E. Krebs. bibliog Am Chem Soc J 64:1103-6 My '42

Advances in plastics during 1941; polystyrene. J. L. Amos. bibliog il Mod Plastics 19:66-7 Ja '42

STYRENE—*Continued*
American chemical society meeting; abstracts of papers relating to ingredients associated with production of synthetic rubber. India Rubber W 106:258 Je '42
Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:37 Ag 6 '42
Developments in the synthetic rubber situation; styrene process. Rubber Age 51:412 Ag '42
Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34:764-70 Je '42
Effect of temperature and solvent type on the intrinsic viscosity of high polymer solutions. T. Alfrey, A. Bartovics and H. Mark. bibliog Am Chem Soc J 64:1557-60 Jl '42
Fabrication of polystyrene; machinability. H. E. Griffith. il diag Mod Plastics 20:79+ N '42
Limits of inflammability and ignition temperature of styrene in air. G. W. Jones, G. S. Scott and W. E. Miller. pls U S Bur Mines Rep of Invest 3630:1-5 '42; Abstract. Oil & Gas J 41:46 Jl 2 '42
Mechanical properties of substances of high molecular weight; rigidities of the system polystyrene-xylene and their dependence upon temperature and frequency. J. D. Ferry. bibliog Am Chem Soc J 64:1323-9 Je '42
Mechanical properties of substances of high molecular weight; viscosities of the system polystyrene-xylene. J. D. Ferry. bibliog Am Chem Soc J 64:1330-6 Je '42
Physical properties of polystyrene as influenced by temperature. T. S. Carswell, R. F. Hayes and H. K. Nason. bibliog il diag Ind & Eng Chem 34:454-7 Ap '42
Plastics competition award to Bell aircraft corp.; radio mast stanchions. il Mod Plastics 19:134-5 N '41
Plastics competition award to Excitement, inc., div., Eisenberg & sons; perfume container. il Mod Plastics 19:130-1 N '41
Plastics competition award to Koehler mfg. co., inc.; Acousticon rechargeable battery. il Mod Plastics 19:116-17 N '41
Plastics competition award to Philco corp. il Mod Plastics 19:94-5 N '41
Plastics competition award to Willard storage battery co.; case molded of clear polystyrene. il Mod Plastics 19:110-11 N '41
Polymerization of styrene catalyzed by *p*-bromobenzenediazonium hydroxide. C. C. Price and D. A. Durham. bibliog Am Chem Soc J 64:2508-9 O '42
Polymerization of styrene in thymol solution. J. K. Moore, R. E. Burk and H. P. Lankelma. bibliog Am Chem Soc J 63:2954-7 N '41
Polystyrene properties. Product Eng 12:665-6 D '41
Preparation of styrene; Me-Ph carbinol as starting material. Chem Age (Lond) 47:318 O 10 '42
Progress of styrene production. W. Dow. Ind & Eng Chem 34:1267-8 N '42
S. O. advertises to clarify stand on synthetic rubber; fourteen oil companies, six chemical and one rayon firm, slated to turn out butadiene and styrene. Sales Management 51:44-5 Ag 1 '42
Styrene from petroleum for synthetic rubber. Oil & Gas J 41:168 Jl 30 '42
Supply of styrene. W. H. Dow. Oil Paint & Drug Rep 142:37 S 21 '42
Vapor pressures of indene, styrene and dicyclopentadiene. P. E. Burchfield. Am Chem Soc J 64:2501 O '42
Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

STYROL. See Styrene

STYRYLACETALDEHYDE
Cyclization of β-styrylacetaldehyde. C. K. Bradsher. bibliog Am Chem Soc J 64:1007 Ap '42

SUBCONSCIOUS
Unconsciousness. J. G. Miller. 329p $3 Wiley '42

SUBCONTRACTING
Lusty war baby; Tubing seal-cap, inc. Business Week p53-4 S 5 '42
See also
Contracts, Government—Subcontracting

SUBJECT headings
Catholic subject headings; a list designed for use with Library of Congress subject headings or the Sears List of subject headings for small libraries. O. L. Kapsner, ed. 256p $3.50 St. John's abbey press, Collegeville, Minn. '42
Library classification for public administration materials. S. H. Glidden and D. Marchus. 512p bibliog(pxii-xiv) $6 Public administration service, 1313 E. 60th st, Chicago '42
Suggestions for adapting the Glidden and Marchus index for the subject files of a taxpayers' research organization. M. A. Johnston. Special Lib 33:116-20 Ap '42
War and defense subject headings. 17p pa 10c Ruth Miller, sec-treas, Financial group, Special lib. assn, Central Hanover bank and trust co, New York '41
War subject headings for information files. 56p pa $1 Special lib. assn, '42

SUBLIMATION
Improved sublimation apparatus. O. A. Nelson. diags Ind & Eng Chem Anal ed 14:153 F 15 '42

SUBLIMATION, Heat of
Heat of sublimation of carbon. G. Herzberg. bibliog J Chem Phys 10:306-7 My '42

SUBMARINE boats
Down-under ships of the navy. W. L. Robinson. il Sci Am 167:196-8 N '42
Erren combustion cycle; submarine application. il diag Automobile Eng 32:301-2 Ag '42
Submarine at war. A. M. Low. 305p $3 Sheridan house, 386 4th av, New York '42
Submarine power plants. Automobile Eng 32:297-8 Ag '42
Submarines. H. S. Zim. 306p $3 Harcourt '42
Take her down; wartime adventures of U.S. submarine L-9. T. B. Thompson. 313p $2.50 Sheridan house, New York '42

SUBMARINE chasers
Fabrication and hull erection of submarine chasers. R. Hughes. il diags Engineer 173:83-4 Ja 23 '42
Light-weight Diesels increase speed, cruising radius of sub-chasers. il Steel 111:54 Jl 13 '42
War program speeded by production line welding plant. G. F. Wolfe. il diags plans Marine Eng 47:106-14 Je '42; Same. Engineering 154:218-20, 230, 236-40 S 11-18 '42

SUBMARINE warfare
Autogiros against submarines; suggested use for convoy duty. A. Klemin. Sci Am 165:348 D '41
Blimps return to the war; naval lighter-than-air craft on submarine patrol. R. G. Picinich, jr. il Aviation 41:207+ O '42
Graphical analysis of U-boat activities, 1917-18. W. W. Robertson. Engineering 154:175-6 Ag 28 '42
Important job for the Civil air patrol; suggestion for use of light planes carried by PT boats in combating Nazi submarine. F. Smith. il Aero Digest 40:62 My '42
Submarine at war. A. M. Low. 305p $3 Sheridan house, New York '42
What the citizen should know about submarine warfare. D. O. Woodbury. 231p bibliog(p226-7) $2.50 Norton '42

SUBMERGED forests. See Forests, Submerged

SUBMERSIBLE pumps. See Pumps, Submersible

SUBROGATION
Eye bond indemnity agreements and subrogation rights. A. Foster, jr.; M. Garrison. Nat Underw 46:16 Ag 27 '42
Subrogation under fire policies; digest of recent cases. J. L. Roesch. Spectator (Property ed) 8:22-4 O 29 '42

SUBSIDENCES (earth movement)

See also
Landslides

SUBSIDIES

Bakers' subsidy in Great Britain. Economist 142:806, 903 Je 6, 27 '42
Farm bloc moves. Nat City Bank p87-8 Ag '42
Imports via RFC; subsidy plan. Business Week p34+ My 23 '42
Oil transportation subsidy. Oil Paint & Drug Rep 142:5 Ag 3 '42
Price rise preferable to subsidy policy. L. Haney. Comm & Fin Chr 156:186 Jl 16 '42
Price subsidy, by proxy. Business Week p7 Je 27 '42
Subsidies in the Canadian price control. For Comm W 7:12-14+ My 23 '42
Subsidies to offset the squeeze of the price ceilings. Nat City Bank p62-3 Je '42
Subsidy squawks; food industry doesn't want any government money. Business Week p45+ Ag 1 '42

SUBSISTENCE homesteads

Industrial and rural workers on FSA homesteads. Monthly Labor R 54:360-83 F '42

See also
Farms for industrial workers

SUBSTITUTES

Alternate materials for industrial reflectors. E. H. Robinson. Elec W 118:1446-7 O 31 '42
Alternate materials in product design; a symposium. H. W. Gillett and others. il Metals & Alloys 15:67-79 Ja '42
Alternate materials; their availability and practicability. L. R. St. Onge. il Refrig Eng 44:291-3 N '42
Alum substitutes. H. E. Duston. Paper Ind 24:307-9 Je '42
Aluminum substitutes, shellac substitutes. Oil Paint & Drug Rep 142:46 O 26 '42
America turns pro; substitutes and synthetics play a big role in the race for materials. H. F. Lee. Barron's 22:5 Jl 6 '42
Army develops methods of conserving strategic raw materials. Heating-Piping 14:287-8 My '42
Battle of raw materials; ersatz, the guest that came to stay. W. J. Casey. Trusts & Estates 74:13-17 Ja '42
Canadian pulp and paper association, Technical section, surveys means of saving; summary of replies to questionnaire on substitution for scarce materials. Pulp & Pa of Can 43:689-92 Ag '42
Caterpillar research effects savings of vital materials. Automotive & Aviation Ind 87:25+ S 1 '42
Cinderella metals and substitutes aid war output. A. A. Bates. Blast F & Steel Pl 30:338 Mr '42
Cobalt, its uses and substitutes. Metals & Alloys 15:884+ My '42
Conservation and substitution in marine engineering. J. L. Kimberley. Marine Eng 47:257-9 O '42
Conservation and substitution, so far. H. W. Gillett. il Metals & Alloys 16:600-7 O '42
Conservation of aluminum. il Iron Age 148:35-9 N 27 '41
Conservation of critical materials approved by executive committee of State highway officials' association. Roads & Sts 85:72 Ap '42
Conservation of critical materials by the use of substitutes, with reference to telephone field; abstract. J. R. Townsend. Elec Eng 61:317-18 Je '42
Conservation of lead and its substitution. Metal Prog 41:82-4 Ja '42
Critical materials, their conservation by the use of alternates. J. Horn. il Gen Elec R 45:407-14 Jl '42; Same cond. Electrician 129:272-6 S 11 '42; Excerpt. Steel 110:34-5, 59-62 Je 8 '42; Abstracts. Elec Eng 61:318-19 Je '42; Chem & Eng N 20:957-9 Ag 10 '42
Designing for materials conservation. il diags Product Eng 13:181-246 Ap '42
Devise substitute for tubular bus. diags Elec W 118:968+ S 19 '42
Eliminating brass; plumbing industry even finds substitutes for substitutes. il Business Week p62+ Ap 11 '42
Ersatz may mean improvement; substitutes in fire protection equipment. J. A. Neale. Safety Eng 83:21 Je '42; Same. Nat Safety N 46:93-4 Jl '42
Ersatz plan pays; Paraffine companies. Business Week p57-8 F 21 '42
Ersatz; the guest that comes to stay. Trusts & Estates 73:471-2 N '41
Evaluate steel pipe as a.c. conductor; substitute for copper in high-voltage substations. S. C. Killian. diags Elec W 117:1349-50 Ap 18 '42
Finding substitute materials; fifteen examples of current practice. il Factory Management 100:112-14 Ag '42
Folding carton and fiberboard substitutes for metal containers. J. D. Malcolmson. Paper Tr J 115:21-2 O 8 '42
German synthetic paint plans point global economic problem. W. Alwyn-Schmidt. Oil Paint & Drug Rep 142:7+ Jl 13 '42
Germans find substitutes and extenders for paint materials. W. Alwyn-Schmidt. Oil Paint & Drug Rep 141:7+ Ja 19 '42
Helping the ceramic industries to assume a greater share in the united aim; substitutes for metals. il Cer Ind 38:45-84 Ap '42
How ducts are made of substitute for sheet metal. T. M. Cunningham. il diags Heating-Piping 14:585-7 O '42
How refineries conserve critical materials. Chem & Met Eng 49:93-4 O '42
How to buy substitutes. E. Rosendahl. il Chem Ind 50:788-9 Je '42
Let's look at substitutes. il Factory Management 100:73-5+ F '42
Material substitutions; York ice machinery corporation. F. J. Allen. il Mech Eng 64:32 Ja '42
Materials and substitutes. il Mod Packaging 15:43-5 Ja '42
Materials for the construction of chemical engineering equipment; alternate materials. il Chem & Met Eng 49:89-92 S '42
Materials substitutes fourth report issued. Oil Paint & Drug Rep 142:3+ Jl 13 '42; Same. Manuf Rec 111:22-3+ Jl '42
Materials substitutes fifth report issued. Oil Paint & Drug Rep 142:5+ Ag 31 '42
Materials supply surveyed by WPB. Oil Paint & Drug Rep 141:7+ Mr 16 '42; Same. Mech Eng 64:391 My '42
Metal substitute end-point is near, OPM data indicates. S A E J 49:sup19, 47 D '41
Metals, chemicals and other materials getting scarcer. Manuf Rec 111:32-3+ S '42
New metals and new methods; abstract. C. H. Desch. Engineer 174:139 Ag 14 '42
No more Straits tin for your bearings; how to keep machines running on dependable substitute bearing metals. A. B. Willi and others. il Power 86:318-21 My '42
Ordnance redesigns to free critical materials. J. B. Nealey. il Iron Age 150:38-41 O 15 '42
Plastics used as substitute materials in wartime refinery maintenance. Nat Pet N 34 pt 2:R301-4 S 30 '42
Platinum plating; a substitute for rhodium plate. C. B. F. Young and J. F. Davis. il Metal Finishing 40:252-3+ My '42
Plumbing jitters; substitutes tested. Business Week p38+ N 22 '41
Possible substitutes for nickel in the present five-cent coin. C. T. Anderson. U S Bur Mines Rep of Invest 3658:1-6 '42
Present-day shortages of basic packaging materials; what to use in the place of them. Mod Packaging 15:28-31 Ja '42
Priorities bring successor products better than old ones; Sears, Roebuck display. il Ptr Ink 199:41-2 Ap 24 '42
Prize-winning mail campaign: it switched a market to alternate products; Southern States Iron Roofing converts to asphalt. il Ptr Ink 201:76, 78+ N 6 '42

SUBSTITUTES—*Continued*

Redesign, substitution, simplification, and standardization; Westinghouse electric and manufacturing company. D. R. Kellogg. Mech Eng 64:30-1 Ja '42; Abstract. Steel 110:72-3+ Ap 20 '42
Reference table of alternates and substitutes. Metals & Alloys 15:80-1, 403-4; 16: 68, 437, 1089-90 Ja, Mr, Jl, S, D '42
Reference table of alternates and substitutes; brasses and bronzes. C. S. Cole, comp. Metals & Alloys 16:68 Jl '42
Replacements developed in the radio manufacturing field. Sci Am 166:14 Ja '42
Requirements of Underwriters' laboratories; emergency specifications. C. R. Welborn. Weekly Underw 146:652-3 Mr 21 '42
Research pays now, and later; wartime substitutes will have peacetime uses. Sci Am 167:9 Jl '42
San Francisco clinic helps small business win battle for survival; permanent exhibit and information clearing house. E. Gidlow. il Sales Management 51:22-4 Ag 15 '42
Saved! 6,500,000 pounds of war materials; conservation program, Western electric company. il Factory Management 100:45-8 Ap '42
Saving copper. Business Week p40+ N 15 '41
Search for substitutes grows more intense in dye and chemical field. Textile World 92:58 Ja '42
Sears ersatz; long list of products using substitute materials. Business Week p52-4 Ap 18 '42
Shadow of things to come. A. B. Wells. il Mag of Wall St 70:219-21+ Je 13 '42
Silver plating as a substitute coating in the present emergency. C. B. F. Young. bibliog Steel 110:94, 107-8 Ap 20; 91, 107-9 My 4 '42; Abstract. Metals & Alloys 16:310+ Ag '42
Station modifications save critical materials. Elec W 117:1894 My 30 '42
Strategic materials table aids substitute selection. Product Eng 13:51-2 Ja '42
Substitute and alternate materials for service pipe. E. E. Smith. Am Water Works Assn J 34:1042-3 Jl '42; Same. il Water Works & Sewerage 89:300 Jl '42; Discussion. H. E. Jordan. Am Water Works Assn J 34:1043-4 Jl '42
Substitute materials. Oil & Gas J 41:47 Ag 13 '42
Substitute materials. G. S. Brady. Oil Paint & Drug Rep 140:7+ D 1 '41
Substitute materials in a war economy. G. S. Brady. Paper Tr J 113:33-6 N 13 '41
Substitute materials in electrical equipment. A. Small. Elec Eng 61:537-8 O '42
Substitute materials in war-plant lighting. E. D. Tillson. il diags Elec Eng 61:458-60 S '42
Substitute materials listed by Bureau of foreign and domestic commerce. Oil Paint & Drug Rep 140:5+ N 17 '41
Substitute materials; need for forward planning. G. A. Williams. Elec R (Lond) 130: 653-4 My 22 '42
Substitute materials report issued by WPB. Oil Paint & Drug Rep 141:5+ Je 8 '42
Substitute metals and alloys for refinery uses. B. B. Morton. Pet Eng 13:130, 132 My '42
Substitute solders and their use. H. W. Gillett. Metals & Alloys 15:868+ My '42
Substitute solders; with comparison table of soft solder. F. N. Rhines and W. A. Anderson. bibliog(46 titles) il Metals & Alloys 14:704-11 N '41
Substitutes and extenders; information on the replacement of scarce materials and the eking out of short supplies. Oil Paint & Drug Rep 141:38 Ja 5; 53 F 2; 42 Mr 2; 68 Ap 6; 68 My 4; 71 Je 1; 142:46 Jl 6; 64 Ag 3; 65 S 7; 43 O 5; 92 N 2; 80 D 7 '42
Substitutes for aluminum paint. E. F. Hickson and H. A. Gardner. Pub Works 73:37 Mr '42
Substitutes for aluminum paints made available. Mach 48:160-1 Je '42
Substitutes for critical materials for highways, bridges and culverts. Eng N 128: 824-5 My 14 '42
Substitutes for rubber and silk; Colonial V plastics. E. Engel and J. Steel. Aero Digest 40:212, 214 My '42
Substitutes for the bronzes. N. K. B. Patch. Steel 110:88, 90 My 11 '42
Substitutes for tin. Am Mach 86:98-100 F 5 '42
Substitutes prove superior; table of substitutes used by Westinghouse electric & mfg. co. Machine Design 14:71 Ja '42
Substitutes readily available for cork's many uses. Product Eng 13:112 F '42
Substitutes, replacements, alternatives! R. C. Osborn. il Machine Design 14:73-6 F '42
Substituting construction materials. il Chem & Met Eng 48:90-3 N '41
Substitution, a constantly changing picture. C. B. Bryant. Ry Age 112:1200-4 Je 20 '42; Same cond. Ry Mech Eng 116:296-9 Jl '42; Same cond. Engineering 154:185, 256 S 4, 25 '42
Substitution of material in the war effort. E. J. Wellauer. Mach 49:226-9 N '42
Substitution of materials. Management R 31: 53-4 F '42
Suggestions for saving critical materials; tabulated summary of papers, appearing in May 1942 issue of Pacific pulp & paper industry on conservation and substitution as practiced by West coast mills. Pulp & Pa of Can 43:753-9 S '42
Telephone industry saves metal. il Metal Prog 41:54-8 Ja '42
Telephone savings; reclamation and substitution for conservation. Sci Am 166:129-30 Mr '42
Telephone system's success in meeting material shortage. il Manuf Rec 110:34-5, 68 N '41
Today's substitutes foreshadow tomorrow's staples. il Sales Management 50:16-17 Ap 1 '42
Toilet goods association offers substitutes. Oil Paint & Drug Rep 141:71 My 11 '42
Tung oil substitutes. Oil Paint & Drug Rep 142:43-4 O 26 '42
Use of substitute materials discussed at packaging conference. Mod Packaging 15: 78, 80 My '42
Use substitutes to help win the war. C. P. Balsam. Sheet Metal Worker 33:44+ Mr '42
Victory program for our industry. Dom Eng 159:52-3+ Ja '42
War-born substitutes surpass originals at Los Angeles show. Sales Management 50:34 My 1 '42
War substitutions can be permanent! R. E. Orton. il diags Machine Design 14:55-9 Je '42
War substitutions for wire and cable insulations. C. A. Finkel. Elec W 118:613-16 Ag 22 '42
Whither industry in democracy's arsenal. D. M. Nelson. Mech Eng 64:7-9 Ja '42
Why and how of conservation and substitution in ordnance work. A. F. Macconochie. il Steel 111:164-6, 169-70 O 5 '42

See also

Food adulteration and inspection
Glass, Substitutes for
Raw materials
Rubber, Substitutes for
Steel—Conservation
Sugar, Substitutes for
Synthetic products

Advertising

Advertises a substitute for what it is; Bull Dog jar rubber. il Ptr Ink 199:36 Je 26 '42

SUBSTITUTION (chemistry)

Absorption of polysubstituted benzene derivatives. A. L. Sklar. bibliog J Chem Phys 10:135-44 F '42
Acid catalyzed hydrolysis of phenyl substituted aliphatic esters. H. A. Smith and R. R. Myers. bibliog Am Chem Soc J 64:2362-5 O '42

SUBSTITUTION (chemistry)—*Continued*

Effect of molecular environment on the absorption spectra of organic compounds in solution; αβ-unsaturated ketones. L. K. Evans and A. E. Gillam. Chem Soc J p815-20 D '41

Effect of structure on reactivity: nuclear substitution of benzene derivatives. H. F. McDuffie, jr. and G. Dougherty. bibliog Am Chem Soc J 64:297-9 F '42

Effect of substituents on the acid strength of benzoic acid; in *n*-propyl alcohol. J. H. Elliott. bibliog J Phys Chem 46:221-7 F '42

Electrostatic influence of substituents on reaction rates; solvent effect. F. H. Westheimer, W. A. Jones and R. A. Lad. bibliog J Chem Phys 10:478-85 Jl '42

Higher hydrocarbons; five 11-substituted heneicosanes. F. C. Whitmore and others. Am Chem Soc J 64:1801-3 Ag '42

Influence of substituents on the reactivity of the hydroxyl group in β-phenylethyl alcohol. G. M. Bennett and M. M. Hafez. Chem Soc J p652-9 O '41

Mechanism of aromatic side-chain reactions, with special reference to the polar effects of substituents; physical and chemical evidence relating to the polar effect of *o*-methyl substituents in derivatives of the type $C_6H_2Me_3 \cdot CO \cdot CH_2R$. J. W. Baker and W. T. Tweed. Chem Soc J p796-802 D '41

Mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents; the aldehydecyanohydrin reaction: evidence for the mesomeric effects of alkyl groups. J. W. Baker and M. L. Hemming. diags Chem Soc J p191-8 Mr '42

Mobility of groups in chloronitrodiphenylsulphones. J. D. Loudon and N. Shulman. Chem Soc J p722-7 N '41

New methods for investigating the distribution of ethoxyl groups in a technical ethylcellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:9-15 Ja '42

Orientation studies in the coumaran series. R. T. Arnold and J. C. McCool. bibliog Am Chem Soc J 64:1315-17 Je '42

2-Phenyloxazole and ortho-substituted derivatives. W. E. Cass. bibliog Am Chem Soc J 64:785-7 Ap '42

2-Phenyloxazole; *para*-substituted derivatives. J. J. Rosenbaum and W. E. Cass. Am Chem Soc J 64:2444-5 O '42

Quantum mechanical investigation of the orientation of substituents in aromatic molecules. G. W. Wheland. bibliog Am Chem Soc J 64:900-8 Ap '42

Raman spectra evidence for hindrance of resonance by ortho substitution. R. H. Saunders, M. J. Murray and F. F. Cleveland. Am Chem Soc J 63:3121-3 N '41

Raman spectra of some aromatic carbonyl and nitro compounds. M. J. Murray, F. F. Cleveland and R. H. Saunders. bibliog Am Chem Soc J 64:1181-4 My '42

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

Relationship between the method of preparation, the distribution of substituents and the solubility in water or alkali of methyl and ethyl ethers of cellulose. J. F. Mahoney and C. B. Purves. bibliog Am Chem Soc J 64:15-19 Ja '42

Resonance in substituted biphenyls. D. W. Sherwood and M. Calvin. bibliog Am Chem Soc J 64:1350-3 Je '42

Structural investigations upon a substituted dipyrrylmethane; an unusual melting point-symmetry relationship. A. H. Corwin, W. A. Bailey, jr. and P. Viohl. bibliog Am Chem Soc J 64:1267-73 Je '42

Studies on substituted diphenylbutadienes; the addition of bromine to 1-*p*-bromophenyl-4-phenyl-1,3-butadiene. K. A. Huggins and O. E. Yokley. Am Chem Soc J 64:1160-1 My '42

Ultraviolet absorption spectra of organic molecules; the effect of substituent groups upon the absorption of biphenyl. B. Williamson and W. H. Rodebush. bibliog Am Chem Soc J 63:3018-25 N '41

See also

Alkylation
Chlorination
Mercuration
Methyl group
Nitration

SUBURBAN development

Decentralized cities; effects on urban real estate values. H. Hoyt. Trusts & Estates 73:593-5 D '41

Problems and limitations in the installation of water main extensions to suburban areas. M. B. Whitaker. Am Water Works Assn J 34:561-3 Ap '42

Treated lumber in Los Angeles war homes. il plan Am Bld 64:64-5 Je '42

See also

Housing projects

SUBVERSIVE activities

Subversive individuals of minority status. A. M. Lee. bibliog Ann Am Acad 223:162-72 S '42

See also

Sedition

SUBWAY cars. See Cars, Subway

SUBWAY stations

Chicago subway station street decking. il diags plans Eng N 128:854-8 My 21 '42

Surveys for the reconstruction of tube stations. T. M. Megaw. Engineering 154:55, 64-5, 83-5 Jl 17-31 '42

Underground railways at Chicago. il diags Engineer 172:288-90 O 31 '41

SUBWAYS

Underground railways at Chicago, U.S.A. il diags plans Engineer 172:268-70, 288-90, 317-19 O 24-N 7 '41

See also

Rapid transit

also subdivision Subways under names of cities, e.g. New York (city)—Subways

Construction

Application of welding in the construction of the Chicago subway. G. S. Salter. il Welding J 21:165-9 Mr '42

Chicago River subway crossing. G. S. Salter and H. J. Bartz. il Civil Eng 12:479-82 S '42

Chicago subway station street decking. il diags plans Eng N 128:854-8 My 21 '42

Coordinating design and construction on Chicago subway. P. F. Girard. il plan Civil Eng 12:143-6 Mr '42

Earth pressure measurements in open cuts, Chicago (Ill.) subway. R. B. Peck. diags Am Soc C E Proc 68:900-28 Je '42

Liner-plate tunnels on the Chicago (Ill.) subway. K. Terzaghi. diags map Am Soc C E Proc 68:862-99 Je '42

Open-cut soil pressures on Chicago subway. R. S. Knapp and R. B. Peck. il diags Eng N 127:739-42 N 20 '41

Shield tunnels of the Chicago subway. K. Terzaghi. diags plans Boston Soc C E J 29:163-210 Jl '42

Tunnel construction, Sixth Avenue subway, New York. J. Feld. il diags plans Am Soc C E Proc 67:617-52 Ap '41; Discussion. 67:1759-60; 68:159-60 N '41, Ja '42

Underground railways at Chicago. il diags Engineer 172:317-19 N 7 '41

Cost

Subway, Chicago; unit prices. Eng N 128:1028 Je 18 '42

Power

Electric facilities and operating plan for the first Chicago subway. C. E. De Leuw. il plans Elec Eng 61:Trans 782-6 N '42; Same cond. Mass Transportation 38:150-4 Je '42

Signals

Electric facilities and operating plan for the first Chicago subway. C. E. De Leuw. il Elec Eng 61:Trans 784-5 N '42; Same. Mass Transportation 38:152-4 Je '42

SUBWAYS (streets)
Rock Springs, Wyoming, subway-viaduct project. D. P. Miller. il Pub Works 73:11+ O '42
Steel bents are different in these temporary bridges; method of interlocking cap beams with H-section piles in falsework at subway job. il diags Ry Age 113:136-8+ Jl 25 '42

See also
Grade crossing elimination

SUCCESS
Business etiquette: the A B C of making good. K. Bleecker. 148p $1.50 Putnam '42
Dollars want you. M. Hewes. 62p $1 M. S. Mill co, New York '42
Facts of life in business. J. S. Brown. 196p $1.50 Lippincott '42
Give yourself a chance; the seven steps to personal success. G. Byron. 348p $1 Blue ribbon books '42
Lad who made Los Angeles America's cottage cheese capital. il Sales Management 49:66+ D 15 '41
Mutual Life people tell radio audience how to get ahead. East Underw 42:3 N 14 '41
Rocky road to riches. L. Lorraine. 97p $1.50 Manthorne & Burack, Boston '41
Your career in business. W. Hoving. 211p $1 Garden City pub. co, Garden City, N.Y. '42

See also
Business management
Efficiency, Industrial
Personality
Self confidence

SUCCINIC acid

Analysis

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

SUCCINONITRILE
Electric polarisation and molecular vibrations; the ethylene dihalides and diacetyl. G. I. M. Bloom and L. E. Sutton. diag Chem Soc J p727-42 N '41

SUCCINYL compounds
Restricted rotation in aryl amines; preparation and resolution of N-succinyl-1-methylamino-2-methylnaphthalene and N-succinyl-1-methylamino-4-chloro- 2 -methylnaphthalene. R. Adams and A. A. Albert. Am Chem Soc J 64:1475-8 Je '42

SUCCINYL ethyl bromomesidine
Restricted rotation in arylamines; preparation and resolution of N-succinyl-N-ethyl-3-bromomesidine and 5-alkoxy-4-N-succinyl-4 - alkylamino - 1,3 - dimethylbenzenes. R. Adams and H. W. Stewart. Am Chem Soc J 63:2859-64 N '41

SUCCINYL methyl aminodimethylbenzene
Restricted rotation in arylamines; preparation and resolution of N-succinyl-N-ethyl-3-bromomesidine and 5-alkoxy-4-N-succinyl-4 - alkylamino - 1,3 - dimethylbenzenes. R. Adams and H. W. Stewart. Am Chem Soc J 63:2859-64 N '41

SUCCINYL sulfathiazole
Biotin deficiency and other changes in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. F. S. Daft, L. L. Ashburn and W. H. Sebrell. bibliog Science 96:321-2 O 2 '42
Prevention and treatment of agranulocytosis and leukopenia in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. S. S. Spicer and others. bibliog Pub Health Rep 57:1559-66 O 16 '42

SUCKER rods
Abuse shortens life of rods and couplings. il Oil & Gas J 40:132-4 Ap 30 '42
Calculation of load and stroke in oil-well pump rods. B. F. Langer and E. H. Lamberger. diags Oil & Gas J 41:27-30+ Jl 2; 26, 28, 30+ Jl 9 '42
Factors affecting the volumetric efficiency of sucker-rod pumps. G. M. Stearns. diag Oil & Gas J 41:41-2 Je 11 '42
Proper practices extend useful life of sucker rods. il Oil & Gas J 40:126, 128-9 Ap 30 '42
Protection of sucker rods. J. C. Albright. il Pet Eng 13:78 Jl '42
Sucker-rod costs determined from operating data. Oil & Gas J 40:49 Ap 9 '42
Summary of manufacturers' reports on sucker-rod shipments for the 12-months' period ending May 31, 1941. Am Pet Inst Proc 22(4):166-9 '41
Usefulness of sucker rods prolonged by proper care at the well. J. C. Albright. il Pet Eng 13:72 Ap '42

Bibliography

Sucker rods. (Petroleum bibliog. 7) 5p Tulsa public lib, Technical dept, Tulsa, Okla. '42

Testing

Determining fatigue in sucker rods. W. A. Sawdon. il Pet Eng 13:23-6 F '42

SUCROSE. See Sugar

SUDAN, Egyptian
Resources of Anglo-Egyptian Sudan; crude drugs. For Comm W 8:25 Ag 8 '42

SUFFRAGE
Service men granted voting privileges. Comm & Fin Chr 156:989 S 17 '42
Service men granted voting privileges by House. Comm & Fin Chr 156:380 Jl 30 '42

SUGAR
Adieu to sugar; why need for war alcohol has caused shortage. Business Week p18-19 Mr 7 '42
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 141:58 My 25; 61 Je 1 '42
Piezometer for transient pressures. A. W. Lawson and P. H. Miller, jr. R Sci Instr 13:297-8 Jl '42
Studies on reactions relating to carbohydrates and polysaccharides; structure of the dextran synthesized by the action of leuconostoc mesenteroides on sucrose. I. Levi, W. L. Hawkins and H. Hibbert. bibliog Am Chem Soc J 64:1959-62 Ag '42
Sugar-coated steel is new product. Blast F & Steel Pl 29:[1136] N '41
Survey world sugar supply. Comm & Fin Chr 155:1034 Mr 12 '42

See also
Beets and beet sugar
Molasses
Sugar industry and trade
Sugars

Analysis

See Sugar analysis

Color

Effect of air on color of sugar liquors. C. A. Frankenhoff. Ind & Eng Chem 34:987-8 Ag '42
Measurement of color and turbidity in solutions of white granulated sugars. E. E. Morse and R. A. McGinnis. bibliog Ind & Eng Chem Anal ed 14:212-17 Mr 15 '42

Manufacture and refining

Activated carbon in sugar refining. E. W. Harris. bibliog il diags Ind & Eng Chem 34:1057-60 S '42
Adjustment of the pH of sugar solutions with Attapulgus clay. W. A. La Lande, jr. and others. Ind & Eng Chem 34:988-91 Ag '42
Advantages and disadvantages of continuous clarifiers for refining. J. M. Brown and W. A. Bemis. bibliog diags Ind & Eng Chem 34:419-22 Ap '42
Automatic and continuous filtration in sugar refining. A. Wright. il Ind & Eng Chem 34:425-9 Ap '42
Beet sugar; history, technology and economics of the industry in southern Alberta. J. Landysheff. il Can Chem & Process Ind 26:510-16 S '42
Beet sugar production; flow sheet. il Chem & Met Eng 49:110-13 Je '42
Calcium phosphate in the filtration of sugar liquors. A. B. Cummins. il Ind & Eng Chem 34:398-402 Ap '42

SUGAR—Manufacture and refining—*Continued*

Clarifying efficiency of diatomaceous filter aids. A. B. Cummins. il Ind & Eng Chem 34:403-11 Ap '42

Decolorizing filter aids; Kyrite and Dicalite M-23. R. Boyd and R. W. Schmidt. il Ind & Eng Chem 34:744-8 Je '42

Determination of moisture in sugar products; refiners' sirup, final molasses (blackstrap), and hydrol. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:127-9 F 15 '42

Diatomaceous silica filter-aid clarification. A. S. Elsenbast and D. C. Morris. il Ind & Eng Chem 34:412-18 Ap '42

Effect of air on color of sugar liquors. C. A. Frankenhoff. Ind & Eng Chem 34:987-8 Ag '42

Filtration of phosphate-defecated affination sirup. H. I. Knowles. flow sheet Ind & Eng Chem 34:422-4 Ap '42

Filtration of sugar solutions; some factors determined by laboratory test procedures. A. B. Cummins and L. E. Weymouth. il diags Ind & Eng Chem 34:392-8 Ap '42

Jacobs continuous clarifier for phosphoric acid and lime clarification of melted sugar solutions used for white sugar manufacture. J. P. Greven. flow sheet il diags Ind & Eng Chem 34:633-7 My '42

Low-purity beet sugar factory materials; rates of crystallization in crystallizer fillmass. R. A. McGinnis, S. Moore, jr. and P. W. Alston. il Ind & Eng Chem 34:171-3 F '42

Pressure filtration of phosphoric-acid- and lime-defecated refinery and whole raw sugar liquors. C. A. Frankenhoff. il Ind & Eng Chem 34:742-4 Je '42

Recovery of sucrose from impure solutions. Food Ind 14:111 Je '42

Supersaturation in sugar boiling operations; continuous automatic measurement. A. L. Holven. bibliog diags Ind & Eng Chem 34:1234-40 O '42

Technology for sugar refinery workers. O. Lyle. 401p bibliog(p383-4) 15s Chapman and Hall, London '41

Use of chlorites for treating raw sugars. H. S. Isbell. J Research Nat Bur Stand 27:491-7 D '41

See also
Sugar factories

Prices

Sugar pressure; gap between world price and OPA ceiling. Business Week p65-6 N 29 '41

Rationing

Baker's gain; housewife buys pies and cakes. Business Week p50 Jl 11 '42

Expects '43 sugar ration to stay at present rates. H. B. Rowe. Comm & Fin Chr 156:717 Ag 27 '42

How President's plan affects staples. Barron's 22:6 My 4 '42

How sugar rationing affects soft drink producers. Barron's 22:12 Ja 19 '42

How will sugar rationing hit soft drink budgets? S. R. Kaplan. il Adv & Sell 35:15-16+ Mr '42

Import movement will influence sugar-rationing measures. For Comm W 8:42-3 Jl 4 '42

OPA allows extra sugar. Comm & Fin Chr 156:180 Jl 16 '42

OPA makes sugar ration stamps valid for 4 weeks. Comm & Fin Chr 156:22 Jl 2 '42

Rationing of sugar. Monthly Labor R 54:1333-4 Je '42

Rationing of sugar and gasoline in Canada. Monthly Labor R 55:283-4 Ag '42

Rationing of sugar hands government printer a sweet job. Inland Ptr 109:33-4 Ap '42

Registration for sugar rationing books in March. Comm & Fin Chr 155:939 Mr 5 '42

Relief-from-shortage copy enters with first-rationed food; seven advertising and sales managers tell why their firms use copy that ties in on the sugar shortage. il Ptr Ink 201:22, 25-6 O 9 '42

Set sugar registration. Comm & Fin Chr 155:1349 Ap 2 '42

6000 tons of ration books. Pulp & Pa of Can 43:401 Ap '42

Sugar flasco. Business Week p14 Je 27 '42

Sugar rationing; developments in the field of commodities. Barron's 22:6 Jl 27 '42

Sugar rationing for May. Comm & Fin Chr 155:1634, 1719 Ap 23, 30 '42

Sugar shortage has its good health points. Sci Am 166:296 Je '42

Sugar squabble. Business Week p48 Ag 22 '42

Those sugar cards. Business Week p14 Ap 18 '42

What sugar ration cards tell about population changes. Sales Management 51:82+ O 10 '42

What sugar-rationing will do to buying habits; 1200 housewives report. J. Nathan. il Adv & Sell 35:22 Je '42

Your sugar card. Business Week p18 Mr 28 '42

SUGAR, Invert

Rate of inversion of sucrose as a function of the dielectric constant of the solvent. C. J. Plank and H. Hunt. bibliog J Phys Chem 45:1403-15 D '41

See also
Invertase

SUGAR, Substitutes for

Sugar substitutes no solution to shortage. Comm & Fin Chr 155:1356 Ap 2 '42

Sweet as cider; government chemists turn cider to syrup, and waste pulp to high-powered pectin. Business Week p68 F 14 '42

SUGAR analysis

Determination of lead in sugars and sugar products; an adaptation of the diphenylthiocarbazone reaction. T. D. Gray. bibliog il Ind & Eng Chem Anal ed 14:110-14 F 15 '42

Determination of melibiase activity. P. P. Gray and H. Rothchild. bibliog Ind & Eng Chem Anal ed 13:902-5 D 15 '41

Determination of moisture in sugar products; corn sugar "70" or "80"; refiners' sirup, final molasses (blackstrap), and hydrol. J. E. Cleland and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 14:124-9 F 15 '42

Determination of moisture in sugar products; filter paper method for corn sirup. J. W. Evans and W. R. Fetzer. bibliog il Ind & Eng Chem Anal ed 13:855-7 D 15 '41

Determination of moisture in sugar products; maltose and dextrose. J. E. Cleland and W. R. Fetzer. Ind & Eng Chem Anal ed 14:27-30 Ja 15 '42

Determination of moisture in sugar products; use of Filter-Cel for corn sirup. J. E. Cleland and W. R. Fetzer. bibliog il diags Ind & Eng Chem Anal ed 13:858-60 D 15 '41

Determination of sugar in plant material; accurate and rapid methods for silage and root crops. D. J. Hiscox. Can Chem & Process Ind 26:496, 498+ Ag '42

Identification of sugars by microscopic appearance of crystalline osazones. W. Z. Hassid and R. M. McCready. bibliog il Ind & Eng Chem Anal ed 14:683-6 Ag 15 '42

Origin of the Clerget method. C. A. Browne. il Chem & Eng N 20:322-4 Mr 10 '42

Physical and chemical methods of sugar analysis. C. A. Browne and F. W. Zerban. 3d ed rev 1353p $15 Wiley '41

Polarimetry, saccharimetry and the sugars. F. J. Bates and others. bibliog il diags U S Nat Bur Stand Circ C440:1-810; $2 Supt. of doc. '42

Sugar identified by new polarizing instrument. il Sci Am 165:341-2 D '41

Supersensitive Schiff's aldehyde reagent; demonstration of a free aldehyde group in certain aldoses. W. C. Tobie. bibliog Ind & Eng Chem Anal ed 14:405-6 My 15 '42

SUGAR cane

Ash content of different cane varieties as related to sugar refining and to soil exhaustion; abstract. P. Madon. Food Ind 14:102 My '42

SUGAR cane—*Continued*

Celotex makes new cold storage insulation from cane stalks. il Refrig Eng 43:304 My '42; Sci Am 167:154 O '42

History of chemistry in Louisiana; the development of the sugar cane industry. E. A. Fieger. il J Chem Educ 19:303-6 Jl '42

Larger sugar crops. Science 96:sup8+ S 25 '42

Stem galls of sugar-cane induced with insect extracts. J. P. Martin. Science 96:39 Jl 10 '42

SUGAR dust

Self-promoted dust explosions; direct and indirect causes. S. C. Blacktin. bibliog Chem Age (Lond) 47:53-7 Jl 18 '42

SUGAR factories

Electric equipment

Electricity in a beet-sugar factory. B. Smith. Inst E E J 89 pt 2:278-83 Ag '42; Abstracts. Electrician 128:21-2 Ja 9 '42; Elec R (Lond) 130:114-15 Ja 23 '42; Discussion. Inst E E J 89 pt 2:283-7 Ag '42

Some considerations relating to the totally electrified cane-sugar factory. L. B. Whitaker. diag plan Inst E E J 89 pt 2: 270-7 Ag '42; Same. Engineering 153:97-100 Ja 30 '42; Abstracts. Electrician 128:22 Ja 9 '42; Elec R (Lond) 130:113-14 Ja 23 '42; Discussion. Inst E E J 89 pt 2:283-7 Ag '42

Equipment

Advantages and disadvantages of continuous clarifiers for refining. J. M. Brown and W. A Bemis. bibliog diags Ind & Eng Chem 34:419-22 Ap '42

Arc-welded evaporators for use in sugar refining. il Engineering 153:45 Ja 16 '42

Diatomaceous silica filter-aid clarification. A. S. Elsenbast and D. C. Morris. il Ind & Eng Chem 34:412-18 Ap '42

See also
Sugar machinery

SUGAR industry and trade

How much sugar? il Fortune 25:86-9+ F '42

How President's plan affects staples. Barron's 22:6 My 4 '42

Liquidate sugar contracts. Comm & Fin Chr 155:955 Mr 5 '42

Manual of sugar companies, 1941. 19th ed 204p pa $1 Farr & co., New York '41

Next year's sugar pattern taking shape. Barron's 22:12 N 2 '42

Packaging the sugar rush; abstract. C. B. Castle. Mod Packaging 15:74 My '42

Sugar takes to small cartons. il Mod Packaging 15:70-2+ Jl '42

See also
Beets and beet sugar

Law

President signs bill extending sugar control law. Comm & Fin Chr 155:37 Ja 1 '42

Securities

Sugar situation; position of leading stocks. Mag of Wall St 69:431-2 Ja 24 '42

Statistics

Food processors face sweetener shortage. R. S. McBride and G. W. McBride. il map Food Ind 14:54-6 Mr '42

Sugar outlook. Survey of Cur Business 22: 9-10 Ja '42

Alberta

Beet sugar; history, technology and economics of the industry in southern Alberta. J. Landysheff. il Can Chem & Process Ind 26:510-16 S '42

Argentina

News by commodities. For Comm W 6:16 Mr 7 '42

Bolivia

Bolivia striving to augment production. For Comm W 7:20-1 Je 13 '42

Canada

Canadian sugar use during 1941. Comm & Fin Chr 155:659 F 12 '42

News by commodities. For Comm W 6:21 Ja 31 '42

Sugar-producing industry from domestic sugar beets. For Comm W 6:18-19 Mr 14 '42

Ceylon

Sugar control established on distribution and sale. For Comm W 8:13-14 Ag 29 '42

Colombia

Sugars and products. For Comm W 6:20-1 Ja 17 '42

Cuba

Cuban sugar company prospects. Barron's 22:6 Jl 13 '42

Cuba's bonanza. Business Week p86 Mr 21 '42

News by commodities. For Comm W 6:21-2 F 14; 22-3 F 28 '42

U.S. advances funds for Cuban sugar supply. Comm & Fin Chr 155:2040 My 28 '42

U.S. will buy Cuban sugar. Comm & Fin Chr 155:676 F 12 '42

Dominican Republic

News by commodities. For Comm W 6:27 Mr 28 '42

Europe

Sugar production in European countries, 1940 and 1941. For Comm W 9:27 O 31 '42

Guatemala

Guatemalan sugar production, 1935-36 to 1940-41. For Comm W 7:24 My 2 '42

India

Sugar production and refining, 1940, 1941. For Comm W 6:21 F 14 '42

Louisiana

History of chemistry in Louisiana; the development of the sugar cane industry. E. A. Fieger. il J Chem Educ 19:303-6 Jl '42

Mexico

Mexican sugar production, 1941-42. For Comm W 8:25 S 5 '42

Puerto Rico

Puerto Rican sugar. Chem Ind 50:224 F '42

South Africa

South Africa's sugarcane crop; with production figures for the last 5 years. For Comm W 9:26 O 10 '42

United States

Closely confined distribution zones seem to be on way; sugar as an illustration. C. J. Swan. maps Ptr Ink 201:19-21, 56-7 O 30 '42

Curb on sweets; existing limitations on use of sugar bring repercussions. Business Week p70 Ja 31 '42

Declares sugar supply situation is improved. O. H. Lamborn. Comm & Fin Chr 155:1940 My 21 '42

Favorable outlook for U.S. sugar production. Comm & Fin Chr 155:672 F 12 '42

Less sugar would affect many items. Ptr Ink 198:18 Ja 23 '42

Making it final; WPB order on sugar. Business Week p74 F 21 '42

1942 sugar quotas. Comm & Fin Chr 155:116 Ja 8 '42; For Comm W 6:20 Ja 17 '42

OPA halts sugar shipments to East; local markets over-supplied with beet sugar. Comm & Fin Chr 155:1960 My 21 '42

Opposes elimination of sugar crop payments as adversely affecting Treasury and consumer. C. Wickard. Comm & Fin Chr 155: 1153 Mr 19 '42

President suspends sugar quotas. Comm & Fin Chr 155:1634 Ap 23 '42

Shipping shortage, not sugar shortage. Survey of Cur Business 22:5+ Je '42

Sugar pinch. Business Week p65-6 Ja 24 '42

Sugar problems; developments in the field of commodities. Barron's 22:6 Mr 2 '42

Wartime controls in the sugar field. Barron's 22:12 Ja 5 '42

SUGAR machinery

Jigs for flame cutting curved surfaces; fabrication of sugar crystallizers. C. N. Holwill and A. N. Kugler. il Welding J 21:609-10 S '42

SUGAR workers

Minimum sugarcane wage rates in Virgin Islands. Monthly Labor R 55:595 S '42

SUGARS

Action of diazomethane upon acyclic sugar derivatives. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. Am Chem Soc J 64:1701-4 Jl '42

Action of diazomethane upon acyclic sugar derivatives; a new synthesis of ketoses and of their open chain (*keto*) acetates. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. bibliog Am Chem Soc J 64:2329-31 O '42

d-Allulose and some methylated derivatives. F. W. Zerban and L. Sattler. Am Chem Soc J 64:1740-1 Jl '42

Azoyl derivatives of sugars and separation by chromatographic adsorption. G. H. Coleman, A. G. Farnham and A. Miller. Am Chem Soc J 64:1501-2 Jl '42

Polarimetry, saccharimetry and the sugars. F. J. Bates and others. bibliog il diags U S Nat Bur Stand Circ C440:1-810; $2 Supt. of doc. '42

Preparation of lower aldonic acids by oxidation of sugars in alkaline solution. H. S. Isbell. bibliog J Research Nat Bur Stand 29:227-32 S '42

Raman spectra of the sugars in the solid state and in solution; the Raman spectra of α- and β-*d*-glucose. F. H. Spedding and R. F. Stamm. bibliog il J Chem Phys 10: 176-83 Mr '42

Sugar acetates, acetylglycosyl halides, and orthoacetates in relation to the Walden inversion. H. L. Frush and H. S. Isbell. bibliog pl J Research Nat Bur Stand 27: 413-28 N '41

Unfermentable reducing substances in molasses; identification of *d*-allulose. F. W. Zerban and L. Sattler. bibliog il Ind & Eng Chem 34:1180-8 O '42

See also

Aldonic acids
Aldoses
Carbohydrates
Dextrose
Fermentation
Glucoheptulose
Glucose
Glucosides
Invertase
Mannose
Optical rotation
Polysaccharides
Sugar

Analysis

See Sugar analysis

SUGGESTION systems

Bank's junior advisory board; Equitable trust company, Baltimore. J. G. Renshaw. il Burroughs Clearing House 26:22-4+ S '42

Conservation for victory; Missouri Pacific campaign to conserve materials; employees' suggestions. Ry Age 113:486-7 S 26 '42

Employe-suggestion plans analyzed; National industrial conference board report. il Steel 111:73-4 Jl 13 '42

Employee suggestion program boosts plant morale; RCA plan. J. W. Bass. il Ptr Ink 199:21-2, 24 My 15 '42

Employee suggestions speed Vultee output; abstract. Management R 30:411 N '41

Encouraging employee thinking; RCA system. R. Newcomb. Aviation 41:74-5+ My '42

Enlisting employee interest; suggestion system, Illinois Central. H. C. Marmaduke. Ry Age 111:919-20 N 29 '41

Fighting the production battle with ideas; Westinghouse electric & mfg. co. suggestion system. Steel 111:59, 66+ S 28 '42

G-E pays employees $95,203 for suggestions. W. E. Owen. Blast F & Steel Pl 30:sup53 Ap '42

Getting suggestions from workers; Vultee aircraft, inc., Inland division. il Factory Management 100:132-3 Ag '42

Here's the paperwork needed for a good suggestion plan. P. L. Schneider. il Factory Management 100:81-4 My '42

Hoopla does it! RCA-Victor's program combines suggestion box and output contest. il Business Week p76-8 F 14 '42

How GE runs its suggestion plan. W. E. Owen. il Factory Management 100:78-80 My '42

How to set up a suggestion plan that will work. A. H. Mogensen. il Factory Management 100:74-5 My '42

Ideas for improvements in shop practice rolling into aircraft manufacturers by thousands. Steel 111:44, 46 S 28 '42

Improved type of suggestion program; Morris plan bank of Virginia. Burroughs Clearing House 27:5-6 O '42

Labor-management suggestions speed war production; Cooper-Bessemer corporation; abstract. B. B. Williams. Marine Eng 47: 255-6 O '42; Same cond. Steel 111:64 Ag 10 '42

Maintaining interest in suggestion systems; abstract. W. E. Fisher. Management R 31:13-15 Ja '42

No signatures, more suggestions. A. Robbins. Factory Management 100:56 Ap '42

Pullman suggestion plan brings 25,900 new ideas. Ry Age 112:818-19 Ap 25 '42

RCA's amazingly successful "beat the promise" campaign ups production. il Steel 110: 80+ My 25 '42

Simplification speeds up production; employees of Walter Kidde & company develop assembly devices. il Marine Eng 47:100-3 Je '42

Some aspects of non-financial and financial incentives. H. B. Maynard. Advanced Management 7:123-6+ Jl-S '42

Suggestion-award plan brings in good ideas; Portland, Ore. gas and coke company. A. J. Larson. il Gas Age 89:24 F 26 '42

Suggestions from employees in railroad mechanical departments. R. H. Carlson. Ry Mech Eng 116:146-7 Ap '42

Suggestions pour in from General Motors workers. Automotive & Aviation Ind 87:37 O 15 '42

Thousands of employee ideas increase operating efficiency; suggestion plan, Pullman company, Chicago. E. S. Taylor. il Factory Management 100:106-8 O '42

United's suggestion conference. F. A. Denz. il Aviation 41:213, 215+ S '42

WPB board of awards honors war workers for suggestions that improve production. Am Mach 86:1192n O 15 '42

We're always looking for ideas; Security trust and savings bank, Shenandoah, Iowa. C. W. Fishbaugh. il Bankers Mo 59:168-71 Ap '42

When every employee seeks a better way; Chicago office of Johnson and Johnson. M. G. Heuer. il Am Business 11:26-7+ N '41

Work simplification taught to employees; Walter Kidde & co. supplements work of suggestion box program. il Ptr Ink 200:20-1 Ag 7 '42

Workers rewarded for ideas with certificates of merit by War production board. il Steel 111:64-5 Ag 10 '42

Workers trade ideas for money; Glenn L. Martin co. il Iron Age 150:71 O 22 '42

SUICIDE

Presumption against suicide does not of itself justify compensation award. Nat Underw 46:16 Ja 1 '42

Verdict for company bears on Missouri suicide law. Nat Underw (Life ed) 45:11 N 28 '41

Statistics

Our most baffling social disease. G. Hirschfeld. map Spectator (Life ed) 149:22-30, 48 Ag '42

Statistical study of the 1940 death rate from suicide. T. J. V. Cullen. Spectator (Life ed) 147:6-11+ N 20 '41

SUITING fabrics, Men's. See Men's suiting fabrics

SULFA drugs. See Sulfadiazine; Sulfaguanidine; Sulfanilamide; Sulfonamides

SULFADIAZINE

Burns; new treatment with sulfadiazine. Sci Am 165:332 D '41

SULFADIAZINE—*Continued*
Cholera and the sulfa drugs; abstract. J. J. Griffitts. Science 96:sup10-11 Jl 10 '42
Inhibitory effects of sulfonamides on cultures of actinomyces hominis. W. C. Cutting and L. P. Gebhardt. Science 94:568-9 D 12 '41
Laboratory studies of the effect of sulfonamide drugs on V. cholerae. J. J. Griffitts. Pub Health Rep 57:814-18 My 29 '42
Optical properties of 2-sulfanilamidopyrimidine (sulfadiazine). A. S. Wilkerson. Am Chem Soc J 64:2230 S '42
Sulfadiazine for the treatment of colds; abstract. M. Siegel. Science 96:sup 10 Jl 10 '42
Sulfadiazine in murine pertussis. J. W. Hornibrook. bibliog Pub Health Rep 57:535-7 Ap 10 '42

SULFAGUANIDINE
Biotin deficiency and other changes in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. F. S. Daft, L. L. Ashburn and W. H. Sebrell. bibliog Science 96:321-2 O 2 '42
Effect of sulfanilylguanidine on the thyroid of the rat. J. B. Mackenzie, C. G. Mackenzie and E. V. McCollum. Science 94:518-19 N 28 '41
Occurrence of hyaline sclerosis and calcification of blood vessels in rats on sulfaguanidine. F. S. Daft and others. Pub Health Rep 57:217-18 F 13 '42
Prevention and treatment of agranulocytosis and leukopenia in rats given sulfanilylguanidine or succinyl sulfathiazole in purified diets. S. S. Spicer and others. bibliog Pub Health Rep 57:1559-66 O 16 '42
Studies in chemotherapy; sulfanilylcyanamide and related compounds. P. S. Winnek and others. bibliog Am Chem Soc J 64:1682-5 Jl '42
Studies of the acute diarrheal diseases; sulfaguanidine in the control of Shigella dysenteriae infections. A. V. Hardy and others. bibliog Pub Health Rep 57:529-35 Ap 10 '42
Sulfaguanidine noneffective in the treatment of typhoid fever and typhoid carriers. J. Watt and J. S. Peterson. Pub Health Rep 57:872-3 Je 5 '42

SULFALLANTOIN
Sulfallantoin in industrial medicine. K. A. Koerber and others. Ind Med 11:475-6 O '42

SULFAMIC acid
Flameproofing made possible by laboratory curiosity. Sci Am 166:200-2 Ap '42
Prize chemicals; sulfamic acid and sulfamide. Business Week p58 Ja 10 '42
Sulfamate lead plating; abstract. E. W. Schweikher. Iron Age 150:69 Jl 2 '42
Sulfamic acid, a newcomer in the chemical field; use in nitrite removal, flameproofing, tanning, etc. A. Perry. il Chem Ind 51:506-9 O '42
Sulphamic acid; a promising new chemical for textile processing. Textile Col 64:342+ Jl '42
Sulfamic acid, an industrial review. M. E. Cupery and W. E. Gordon. bibliog(53 references) il Ind & Eng Chem 34:792-7 Jl '42; Abstracts. Chem Ind 50:207 F '42; Chem Age (Lond) 47:239-41 S 12 '42

SULFANILAMIDE
Anti-bacterial substances allied to sulphanilamide. T. Dewing and others. Chem Soc J p239-44 Ap '42
Bacteriostatic action of sulfanilamide: abstract. S. D. Rubbo and J. M. Gillespie. Science 95:sup9 F 27 '42
Binding of sulfonamides by plasma proteins. B. D. Davis. Science 95:78 Ja 16 '42
Biochemical specificity of sulfanilamide and of other antibacterial agents. H. McIlwain. bibliog Science 95:509-11 My 15 '42
Chemotherapy, with particular reference to the sulphonamides. G. S. Whitby. Can Chem & Process Ind 26:107-12 F '42
Determination of nitrites; discussion of the Shinn method as applied to examination of water. N. F. Kershaw and N. S. Chamberlin. bibliog Ind & Eng Chem Anal ed 14:312-13 Ap 15 '42
Enzyme action; reduced by narcotics. H. C. Eyster. Science 96:140-1 Ag 7 '42
Growth stimulation by sulfanilamide in low concentration. C. Lamanna. bibliog Science 95:304-5 Mr 20 '42
Heterocyclic derivatives related to sulfanilamide; the quinoline analog of sulfanilamide and derivatives. H. Urist and G. L. Jenkins. bibliog Am Chem Soc J 63:2943-4 N '41
Inhibitory effects of sulfonamides on cultures of actinomyces hominis. W. C. Cutting and L. P. Gebhardt. Science 94:568-9 D 12 '41
Laboratory studies of the effect of sulfonamide drugs on V. cholerae. J. J. Griffitts. Pub Health Rep 57:814-18 My 29 '42
Mechanism of P-aminobenzoic acid action and the parallel effects of ethyl carbamate (urethane); anti-sulfanilamide. F. H. Johnson. bibliog Science 95:104-5 Ja 23 '42
Mechanism of sulfonamide action: inhibition of bacterial respiration by sulfanilamide and by its inactive isomers. O. Wyss, F. B. Strandskov and F. C. Schmelkes. Science 96:236-7 S 4 '42
New type of sulfanilamide derivative of D-glucose; sulfanilyl-2-amino-α-D-glucose and certain derivatives. E. L. Jackson. bibliog Am Chem Soc J 64:1371-4 Je '42
N^1-silver derivatives of sulfanilamide and some related compounds. C. E. Braun and J. L. Towle. Am Chem Soc J 63:3523 D '41
Quantitative analysis of sulfonamide bacteriostasis. H. M. Rose and C. L. Fox, jr. Science 95:412-13 Ap 17 '42
Solubilities of orthanilamide, metanilamide and sulfanilamide. R. H. Kienle and J. M. Sayward. Am Chem Soc J 64:2464-8 O '42
Substituted 2-sulfonamido-5-aminopyridines. W. T. Caldwell and E. C. Kornfeld. bibliog Am Chem Soc J 64:1695-8 Jl '42
Sulfa drugs and the treatment of wounds in Hawaii. J. Stafford. Science 95:sup8+ Ja 16 '42
Sulfa ration; each U.S. soldier going into combat will carry tablets of antibacterial drug. Business Week p20+ Ap 4 '42
Sulfanilamide and related chemotherapeutic agents. L. H. Amundsen. bibliog J Chem Educ 19:167-71 Ap '42
Sulfanilamide can overcome germ infections in wounds; abstract. R. G. Klepser and J. R. Veal. Science 95:sup10 Ja 2 '42
Sulfanilamide; why the new drug is unfair to bacteria. Sci Am 166:228-9 My '42
Sulfonamido derivatives of pyrimidines. J. M. Sprague, L. W. Kissinger and R. M. Lincoln. bibliog Am Chem Soc J 63:3028-30 N '41
Urethane: absence of parallelism with the anti-sulfonamide action of p-aminobenzoic acid. G. J. Martin and C. V. Fisher. Science 95:603 Je 12 '42

Analysis

Sulfanilamide, sulfapyridine, sulfathiazole, sulfaguanidine, and sulfadiazine; assay, differentiation, and identification. J. A. Calamari, R. Hubata and P. B. Roth. bibliog Ind & Eng Chem Anal ed 14:534-5 Jl 15 '42

SULFANILAMIDO compounds
Studies in chemotherapy; sulfanilamidopyrimidines. R. O. Roblin, jr, P. S. Winnek and J. P. English. bibliog Am Chem Soc J 64:567-70 Mr '42
Sulfanilamido derivatives of nitrogen bases from California petroleum. L. M. Schenck and H. R. Henze. bibliog Am Chem Soc J 64:1499-1501 Jl '42

SULFANILAMIDOPHENYL oxazole
2-Phenyloxazole; *para*-substituted derivatives. J. J. Rosenbaum and W. E. Cass. Am Chem Soc J 64:2444-5 O '42

SULFANILAMIDOPYRAZINE
Syntheses in the pyrazine series; 2-sulfanilamidopyrazine. J. W. Sausville and P. E. Spoerri. Am Chem Soc J 63:3153-4 N '41

SULFANILYLAMINO compounds
N^1-sulfanilylamino-alkyl-pyrimidines. G. W. Raiziss and M. Freifelder. bibliog Am Chem Soc J 64:2340-2 O '42

SULFANILYL aminoglucose
New type of sulfanilamide derivative of D-glucose; sulfanilyl-2-amino-α-D-glucose and certain derivatives. E. L. Jackson. bibliog Am Chem Soc J 64:1371-4 Je '42

SULFANILYL aminothiazoline. See Sulfathiazoline

SULFANILYL compounds
Derivatives of aminoisoquinolines. J. J. Craig and W. E. Cass. bibliog Am Chem Soc J 64:783-4 Ap '42

SULFANILYLCYANAMIDE
Studies in chemotherapy; sulfanilylcyanamide and related compounds. P. S. Winnek and others. bibliog Am Chem Soc J 64:1682-5 Jl '42

SULFANILYLGUANIDINE. See Sulfaguanidine

SULFASUXIDINE. See Succinyl sulfathiazole

SULFATES
Electronic structure and stability of hydrogen halides and of complex ions XO_4. K. Fajans and N. Bauer. bibliog J Chem Phys 10:410-15 Jl '42

Steryl sulfates; isolation and separation of sterols. A. E. Sobel and P. E. Spoerri. Am Chem Soc J 64:361-3 F '42

See also
Alkyl sulfates
Ammonium sulfate
Copper sulfate
Gypsum
Lead sulfate
Paper making—Sulfate process
Sodium sulfates

Analysis

Rapid turbidimetric method for determination of sulfates; comparison with gravimetric method. J. F. Treon and W. E. Crutchfield, jr. Ind & Eng Chem Anal ed 14:119-21 F 15 '42

Rapid volumetric method for determination of sulfate ion. M. Randall and H. O. Stevenson. bibliog Ind & Eng Chem Anal ed 14:620-1 Ag 15 '42

Volumetric determination of sulfates; tetrahydroxyquinone as an external indicator. S. W. Lee and others. Ind & Eng Chem Anal ed 14:839-40 O 15 '42

SULFATHIAZOLE
Cholera and the sulfa drugs; abstract. J. J. Griffitts. Science 96:sup 10-11 Jl 10 '42

Inhibitory effects of sulfonamides on cultures of actinomyces hominis. W. C. Cutting and L. P. Gebhardt. Science 94:568-9 D 12 '41

Laboratory studies of the effect of sulfonamide drugs on V. cholerae. J. J. Griffitts. Pub Health Rep 57:814-18 My 29 '42

Minor and medium burns; treatment with sulfathiazole. J. H. Biram. bibliog Ind Med 11:462-3 O '42

Sulfa drug and peritonitis. Science 95:sup7-8 Ja 30 '42

Sulfathiazole locally in the treatment of acute traumatic wounds. K. C. Scheck and others. Ind Med 11:66-8 F '42

SULFATHIAZOLINE
2-Sulfanilyl-aminothiazoline. G. W. Raiziss and L. W. Clemence. Am Chem Soc J 63:3124-6 N '41

SULFHEMOGLOBIN
Sulfhemoglobin formation and labile iron in vitro and in vivo. G. Barkan and B. S. Walker. bibliog Science 96:66-8 Jl 17 '42

SULFHYDRYL solution
New sulfhydryl solution for the treatment of burns. R. R. Mellon. bibliog il Ind Med 11:14-18 Ja '42

SULFIDES
Organic sulphur compounds; the relation between the constitution of thioethers and thiols and their sensitivity towards alkali. A. Schönberg and Y. Iskander. Chem Soc J p90-5 F '42

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

Study of complex dioxalatothiometastannates. H. H. Willard and T. Y. Toribara. diag Am Chem Soc J 64:1762-5 Ag '42

See also
Disulfides
Hydrogen sulfide
Hydroxyphenyl amyl sulfide
Iron sulfides
Molybdenite
Ore deposits
Pyrites
Pyrrhotite

Analysis

Titration of soluble sulphides. G. Spencer. Soc Chem Ind J 61:132 Ag '42

SULFILIMINES
Condensation of sulfoxides with p-toluenesulfonamide and substituted acetamides. D. S. Tarbell and C. Weaver. bibliog Am Chem Soc J 63:2939-42 N '41

SULFINATES

See also
Nickel sulfinates

SULFITE liquor
Absorption of chemicals from neutral sodium sulphite liquor by sweetgum chips. J. N. McGovern, J. N. Evert and G. H. Chidester. Paper Tr J 113:27-31 D 4 '41

Ask reconsideration for waste liquor plan; Wisconsin sulphite pulp manufacturers appeal to WPB. Paper Tr J 115:16 S 17 '42

Catalytic oxidation of sulfite waste liquor by atmospheric oxygen. I. A. Pearl and H. K. Benson. bibliog Ind & Eng Chem 34:436-8 Ap '42

Control of sulphite cooking process; application of the reaction between aniline and lignin sulphonic acid. J. Seiberlich. Pulp & Pa of Can 43:260 F '42

Expansion in sulphite liquor disposal seen; report outlines progress. Paper Tr J 114:8 Je 18 '42

Is this a chance for sulphite alcohol? Pulp & Pa of Can 43:493+ Je '42

Lucrative lignin; once wasted by-product of sulphite pulp. A. Abrams. il Tech R 44:449-50+ Jl '42; Same. Pulp & Pa of Can 43:686-8 Ag '42

Pulping loblolly pine heartwood with calcium, magnesium, and sodium base sulphite liquors. J. N. McGovern and G. H. Chidester. Paper Ind 23:1128+ F '42

Recent developments in the production of ethanol from waste sulphite liquor and wood. J. L. McCarthy. bibliog(99 references) Pulp & Pa of Can (Convention no) 43:205-6+ [F] '42

Research on waste liquor utilization. Pulp & Pa of Can 43:264 F '42

Sulphite liquor as a road builder. Paper Tr J 115:12 O 8 '42

Sulphite waste liquor as a source of energy; abstract. K. Schwabe. Chem & Met Eng 49:156 Mr '42

Sulphite waste liquor evaporation. Paper Ind 24:222 My '42

Bibliography

Sulphite waste liquors; an annotated bibliography. 617 numb l Inst. of paper chemistry, Appleton, Wis. '40

SULFITES
Some observations on the production and use of sulphite treated steel; abstract. E. L. Ramsey and L. G. Graper. Blast F & Steel Pl 30:363 Mr '42

Analysis

Quantitative analysis of mixtures of thiosulphate and sulphite. K. G. A. Pankhurst. Chem & Ind 61:74-5 F 7 '42

SULFOBENZENEARSONIC acid
Sulfophenylarsonic acids and certain of their derivatives; derivatives of p-sulfonamidophenylarsonic acid. E. L. Way and J. F. Oneto. Am Chem Soc J 64:1287-8 Je '42

Sulfophenylarsonic acids and certain of their derivatives; p-(p-sulfophenyl)- and p-(p-sulfonamidophenyl)-phenylarsonic acids. J. F. Oneto and E. L. Way. Am Chem Soc J 63:3068-70 N '41

SULFONAMIDES

Antiplasmodial action and chemical constitution; compounds related to lepidylamine. T. S. Work. Chem Soc J p426-9 Jl '42

Binding of sulfonamides by plasma proteins. B. D. Davis. Science 95:78 Ja 16 '42

Chemotherapy, with particular reference to the sulphonamides. G. S. Whitby. Can Chem & Process Ind 26:107-12 F '42

Cod liver oil ointment with sulfonamides in wounds and osteomyelitis. S. J. Wolferman and W. F. Adams. Ind Med 11:318-19 Jl '42

Conquest of bacteria, from salvarsan to sulphapyridine. F. S. Taylor. 175p $2 Alliance book corp, New York '42

Dicarboxylic acid derivatives of sulfonamides. M. L. Moore and C. S. Miller. bibliog Am Chem Soc J 64:1572-6 Jl '42

Dyes and dye chemistry fight disease. G. S. Whitby. Textile Col 64:119-21 Mr '42

Identification of organic compounds; chlorosulfonic acid as a reagent for identification of alkylbenzenes. E. H. Huntress and J. S. Autenrieth. Am Chem Soc J 63:3446-8 D '41

Infections reduced by sulfonamides. J. G. Irving. East Underw 43:15 Je 12 '42

Laboratory studies of the effect of sulfonamide drugs on V. cholerae. J. J. Griffitts. Pub Health Rep 57:814-18 My 29 '42

New sulfa drugs are boon to pneumonia victims among workers. Ins Field (Life ed) 71:8 Mr 27 '42

Quantitative analysis of sulfonamide bacteriostasis. H. M. Rose and C. L. Fox, jr. Science 95:412-13 Ap 17 '42

Substituted sulfonamides. J. P. English and others. Am Chem Soc J 64:2516 O '42

Substituted 2-sulfonamido-5-aminopyridines. W. T. Caldwell and E. C. Kornfeld. bibliog Am Chem Soc J 64:1695-8 Jl '42

Sulfa drugs work wonders in canine cures. A. Bryan. Sci Am 166:194 Ap '42

Sulfanilamide and related chemotherapeutic agents. L. H. Amundsen. bibliog J Chem Educ 19:167-71 Ap '42

Sulfonamide compounds in the treatment of infections. M. A. Schnitker. 195p bibliog (p181-90) $2 Oxford '42

Sulfonamido derivatives of pyrimidines. J. M. Sprague, L. W. Kissinger and R. M. Lincoln. bibliog Am Chem Soc J 63:3028-30 N '41

See also

Sulfadiazine
Sulfanilamide
Sulfathiazole
Toluenesulfonamide

Analysis

Sulfanilamide, sulfapyridine, sulfathiazole, sulfaguanidine, and sulfadiazine; assay, differentiation, and identification. J. A. Calamari, R. Hubata and P. B. Roth. bibliog Ind & Eng Chem Anal ed 14:534-5 Jl 15 '42

SULFONATED oils

Advantages of sulphonated tall oil in manufacturing coated paper. E. Getty. Paper Tr J 114:130, 132 F 19 '42

Applications of sulphonated oils. Textile Col 64:92-3 F '42

Bath oils; abstract. Soap & San Chem 18:56 Ag '42

Determination of water-immiscible organic solvents volatile with steam in sulfonated (sulfated) oils; report no. 8 of the subcommittee on sulfonated oils. diags Am Dyestuff Rep 31:64-70 F 2 '42

Preparation of sulphonated peanut oil; abstract. J. B. Gallent. Chem & Met Eng 49:210 S '42

SULFONATES

Antihemorrhagic activity of sulfonated derivatives of 2-methylnaphthalene. B. R. Baker and others. Am Chem Soc J 64:1096-1101 My '42

See also

Copper sulfonates

SULFONATION

Liquid sulfur dioxide as solvent medium for chemical reactions. J. Ross and others. bibliog Ind & Eng Chem 34:924-6 Ag '42

SULFONES

Carboxylic acid derivatives of 4 : 4′-diaminodiphenylsulphone. W. H. Gray and B. C. Platt. Chem Soc J p42-5 Ja '42

Chemotherapeutic action of a N-phosphoryl derivative of 4-4′-diaminodiphenylsulfone. M. I. Smith, S. M. Rosenthal and E. L. Jackson. bibliog Pub Health Rep 57:1534-42 O 9 '42

Mobility of groups in chloronitrodiphenylsulphones. J. D. Loudon and N. Shulman. Chem Soc J p722-7 N '41

SULFONIC acids

Conductometric assay of inorganic salt in the presence of wetting agents. J. H. Percy and C. J. Arrowsmith. bibliog Ind & Eng Chem Anal ed 14:151-3 F 15 '42

Electrical conductivities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p843-9 D '41

Preparation of some alkane-α,ω-disulfonic acids. S. Zuffanti and R. Hendrickson. Am Chem Soc J 63:2999-3000 N '41

Viscosities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p850-4 D '41

See also

Lignin sulfonic acid

Analysis

Identification of organic compounds; the preparation of *p*-nitrobenzylpyridinium salts of aromatic sulfonic acids. E. H. Huntress and G. L. Foote. bibliog Am Chem Soc J 64:1017-20 My '42

SULFONIUM compounds

Sulfur studies; sulfonium derivatives of *p*-phenylphenacyl bromide. R. W. Bost and H. C. Schultze. bibliog Am Chem Soc J 64:1165-7 My '42

SULFONPHTHALEINS

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

SULFONYL chlorides

Explosion hazard in the chlorination of alkyl isothioureas to prepare alkyl sulfonyl chlorides. K. Folkers, A. Russell and R. W. Bost. Am Chem Soc J 63:3530-2 D '41

SULFOSUCCINATES

Conductances of solutions of several alkyl sulfates and sulfosuccinates. F. D. Haffner, G. A. Piccione and C. Rosenblum. bibliog J Phys Chem 46:662-70 Je '42

SULFOXIDES

Condensation of sulfoxides with *p*-toluenesulfonamide and substituted acetamides. D. S. Tarbell and C. Weaver. bibliog Am Chem Soc J 63:2939-42 N '41

SULFUR

Cleavage of the ethylene linkage by the action of sulphur. A. Schönberg and W. Asker. Chem Soc J p272-4 Ap '42

Crow foot anchor bolts stay put; use of molten sulfur. B. H. Whitehouse. diags Power Pl Eng 46:112-13 My '42

Cuba sulfur deposit known as "La aparecida." For Comm W 6:15 F 7 '42

Developments in lignin chemistry; sulphur-lignin reactions. Chem Age (Lond) 46:253-4 My 16 '42

Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42

Elemental sulphur; extraction and reduction of sulphur dioxide from roaster gases at Trail. il Can Chem & Process Ind 26:138-9 Mr '42

Laboratory determination of the heat of transition of sulfur. P. P. Sutton. J Chem Educ 19:459 O '42

Nuclear photo-effect on sulphur, aluminum, and magnesium. O. Huber and others. Phys R 60:910 D 15 '41

Purification of sulfur. R. F. Bacon and R. Fanelli. bibliog il Ind & Eng Chem 34:1043-8 S '42

SULFUR—*Continued*

Study of cutting oils with and without added sulphur. O. W. Boston and J. C. Zimmer. Am Soc for Metals Trans 30:793-808; Discussion. 808-16 S '42

Sulphur and sulphur compounds in the rayon industry. W. W. Duecker. il Rayon 23:457-8 Ag '42

Sulphur, vital but not critical. Min & Met 23:539-40 N '42

Sulphuric acid and sulphur, 1941. Chem & Met Eng 49:82-4+ F '42

Sulfur's role in industry. W. W. Duecker and E. W. Eddy. il Chem Ind 50:174-82 F '42

Welding flux for sulphur contaminated steels. I. Bencowitz. il Welding J 21:sup237-41 My '42

See also

Gasoline—Sulfur content
Steel—Sulfur content
Sulfonium compounds
Vulcanization

Analysis

Determination of free sulfur in lubricating oil. H. Levin and E. Stehr. bibliog diags Ind & Eng Chem Anal ed 14:107-9 F 15 '42

Determination of sulfur; accuracy and precision of several methods. W. Rieman, 3d and G. Hagen. Ind & Eng Chem Anal ed 14:150-1 F 15 '42

Determination of total sulphur in organic liquids, using a semi-micromethod. E. R. Lisle. diag Soc Chem Ind J 61:20 Ja '42

Determination of types of sulfur compounds in petroleum distillates. J. S. Ball. U S Bur Mines Rep of Invest 3591:1-60 bibliog(88 titles, p55-60) '41

Direct determination of sulfur. G. L. Mack and J. M. Hamilton. bibliog Ind & Eng Chem Anal ed 14:604-6 Jl 15 '42

Improved semimicrodetermination of sulfur in organic materials; peroxide-carbon fusion followed by a titration using tetrahydroxyquinone indicator. J. F. Mahoney and J. H. Michell. bibliog Ind & Eng Chem Anal ed 14:97-8 Ja 15 '42

Proposed revision of tentative methods of chemical analysis of cement. Concrete (mill sec) 50:204-5 Jl '42

Shortcuts for determining sulphur and molybdenum in alloy steels. E. R. Vance. il Steel 111:56+ Ag 31 '42

Sulfur in organic compounds containing nitrogen and halogen; acidimetric microdetermination. E. L. Brewster and W. Rieman, 3d. bibliog diag Ind & Eng Chem Anal ed 14:820-1 O 15 '42

Volumetric determination of sulfur in coal and coke. S. S. Tomkins. bibliog Ind & Eng Chem Anal ed 14:141-5 F 15 '42

Isotopes

Isotopic weights of sulphur and titanium. T. Okuda and K. Ogata. Phys R 60:690-1 N 1 '41

Some applications of mass spectrometric analysis to chemistry. D. Rittenberg. bibliog il J Ap Phys 13:560-9 S '42

Manufacture

Sulphur from Arkansas sour gas; removal of hydrogen sulfide by Girbotol process. J. A. Lee. il diag Chem & Met Eng 49:80-2 Je '42

SULFUR bacteria

Bacterial removal of hydrogen sulphide from water-gas and coal gas by peat and peat-oxide mixtures. R. Quarendon. il diags Soc Chem Ind J 60:267-77 N '41; Same cond. Gas J (Lond) 237:130, 133-4 Ja 28 '42

SULFUR compounds

Cleavage of the ethylene linkage by the action of sulphur. A. Schönberg and W. Asker. Chem Soc J p272-4 Ap '42

Dipole moment and resonance in heterocyclic molecules containing nitrogen and sulfur. P. F. Oesper, G. L. Lewis and C. P. Smyth. bibliog Am Chem Soc J 64:1130-3 My '42

Dipole moments and structures of diketene and of certain acid anhydrides and related oxygen and sulfur compounds. P. F. Oesper and C. P. Smyth. bibliog Am Chem Soc J 64:768-71 Ap '42

Influence of sulfur compounds on octane number and lead susceptibility of gasolines. J. G. Ryan. bibliog Ind & Eng Chem 34:824-32 Jl '42; Same. Nat Pet N 34 pt 2:R234-9, R286-8 Jl 29, Ag 26 '42

Isolation of sulfur compounds from a California straight-run gasoline. O. L. Polly, A. C. Byrns and W. E. Bradley. bibliog Ind & Eng Chem 34:755-8 Je '42

Organic sulphur compounds; the relation between the constitution of thioethers and thiols and their sensitivity towards alkali. A. Schönberg and Y. Iskander. Chem Soc J p90-5 F '42

Sulphur and sulphur compounds in the rayon industry. W. W. Duecker. il Rayon 23:457-8 Ag '42

Sulfur dioxide; sources, production, uses. H. F. Johnstone. il Ind & Eng Chem 34:1017-28 bibliog(115 references, p1027-8) S '42

See also

Cystine
Mercaptans
Sulfates
Sulfides
Sulfones
Sulfonium compounds
Sulfur dyes
Sulfuric acid
Thiocyanates
Thiosulfates

Analysis

Determination of types of sulfur compounds in petroleum distillates. J. S. Ball. U S Bur Mines Rep of Invest 3591:1-60 bibliog(88 titles, p55-60) '41

See also

Mercaptans—Analysis
Sulfates—Analysis
Sulfur dioxide—Analysis
Sulfuric acid—Analysis

SULFUR dioxide

Determination of ascorbic acid. A. W. E. Downer. Chem & Ind 60:868 D 6 '41

Determination of oxide copper. R. S. Young and D. G. M. Graham. Ind & Eng Chem Anal ed 14:787-8 O 15 '42

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Elemental sulphur; extraction and reduction of sulphur dioxide from roaster gases at Trail. il Can Chem & Process Ind 26:138-9 Mr '42

How to sulphur fruit for Great Britain. Food Ind 14:61+ Ja '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; laboratory experiments on sulfur dioxide-sulfuric acid leaching of black and brown manganiferous iron ores of the Cuyuna range of Minnesota. C. T. Anderson. U S Bur Mines Rep of Invest 3649:1-38 '42

Manganese investigations, Metallurgical division: hydrometallurgical studies of manganese ores; recovery of manganese from Chamberlain nodules by the Reyerson modification of the sulfur dioxide leaching process. C. E. Wood and others. pls U S Bur Mines Rep of Invest 3609:1-30 '42

Molecular surface energy of sulfur dioxide addition compounds. J. R. Bright and J. J. Jasper. bibliog Am Chem Soc J 63:3486-8 D '41

Non-peroxide catalysts for the reaction between sulfur dioxide and olefins. C. S. Marvel, L. F. Audrieth and W. H. Sharkey. Am Chem Soc J 64:1229-30 My '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Producing sulphur dioxide in sulphite pulp mills; abstract. A. Malik. Chem & Met Eng 49:159-60 Ja '42

Stability of ascorbic acid in citrus fruit juice products. A. W. E. Downer. bibliog Soc Chem Ind J 61:80-2 My '42

SULFUR dioxide—*Continued*

Sulphur dioxide as a raw material; abstract. H. F. Johnstone. Can Chem & Process Ind 25:638-9 D '41

Sulfur dioxide as a raw material; chlorination of metal oxides with sodium chloride and sulfur dioxide. H. F. Johnstone and R. W. Darbyshire. bibliog diag Ind & Eng Chem 34:280-6 Mr '42

Sulfur dioxide; sources, production, uses. H. F. Johnstone. il Ind & Eng Chem 34:1017-28 bibliog(115 references, p1027-8) S '42

Sulphur dioxide used to preserve grapes; abstract. W. T. Pentzer and W. R. Barger. Food Ind 14:104 F '42

Surface tension, liquid density, and vapor density of sulfur dioxide solutions of potassium thiocyanate at 10°, 15°, 20°, and 25°C. W. G. Eversole, G. H. Wagner and G. C. Bailey. bibliog diag J Phys Chem 45:1388-97 D '41

Systems with boron trifluoride. H. S. Booth and D. R. Martin. bibliog diags Am Chem Soc J 64:2198-205 S '42

Analysis

Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42

Detection of carbon dioxide and sulfur dioxide from mixtures of carbonates and sulfites. G. B. Heisig and A. Lerner. diag Ind & Eng Chem Anal ed 13:843 N 15 '41

Further notes on the determination of ascorbic acid and sulphur dioxide in fruit juices. H. F. W. Kirkpatrick. Soc Chem Ind J 60:298-9 N '41

SULFUR dioxide, Liquid

Liquid sulfur dioxide as solvent medium for chemical reactions. J. Ross and others. bibliog Ind & Eng Chem 34:924-6 Ag '42

SULFUR dyes

Dyeing with sulphur dyes with special reference to khaki, blue and grey shades. H. Boothroyd. Soc Dyers & Col J 58:25-7 F '42; Same. Textile Col 64:296-9 Je '42; Discussion. Soc Dyers & Col J 58:27-8 F '42

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942; use of sulfur dyestuffs. Am Dyestuff Rep 31:404-5 Ag 17 '42

Place of sulfur colors in our war production. J. L. Crist. Am Dyestuff Rep 31:133-6 Mr 16 '42

Sulfur colors for the army. F. M. Steadman. Am Dyestuff Rep 31:211-12 Ap 27 '42

Sulphurs versus vats in military fabrics. Textile Col 64:129 Mr '42

Testing sulphur-dyed goods to determine amount of deterioration during storage., J. L. Crist. Textile World 92:138 Ap '42

SULFUR hydride. See Hydrogen sulfide

SULFUR industry and trade

Stone that burns; the story of the American sulphur industry. W. Haynes. 345p bibliog(p279-302) $3.75 Van Nostrand '42

Sulphur in 1941. J. T. Claiborne, jr. il Min Cong J 28:56-7+ F '42

Sulphur in 1941 and prospects for 1942. W. W. Duecker; L. M. Williams, jr. Comm & Fin Chr 155:448, 477-8 Ja 29 '42

Sulfur's role in industry. W. W. Duecker and E. W. Eddy. il Chem Ind 50:174-82 F '42

Statistics

Sulphur output in 1941 set high record. Oil Paint & Drug Rep 141:67 Mr 9 '42

Sulphuric acid and sulphur, 1941. Chem & Met Eng 49:82-4+ F '42

Baluchistan

Important sulfur discovery in Baluchistan. For Comm W 8:30 Jl 11 '42

Netherlands Indies

Production of sulfur in the Netherlands Indies. For Comm W 5:19-20 N 29 '41

SULFUR mines and mining

Stone that burns; the story of the American sulphur industry. W. Haynes. 345p bibliog (p279-302) $3.75 Van Nostrand '42

Safety measures

Safer than the highway; Diesel launches provide transportation for employees of Freeport sulphur co. A. H. Schroder. il Nat Safety N 44:18-19+ D '41

SULFUR oxides

See also
Sulfur dioxide
Sulfur trioxide

SULFUR trioxide

Chlorine and salt cake from salt and sulfur. A. W. Hixson and A. H. Tenney. bibliog diags Ind & Eng Chem 33:1472-84 D '41

Heat of solution of the system sulfur trioxide-water. R. A. Morgen. il Ind & Eng Chem 34:571-4 My '42

SULFURETTED hydrogen. See Hydrogen sulfide

SULFURIC acid

Action of hydrogen fluoride, sulfuric acid and phosphoric acid on optically active 2-butanol. R. L. Burwell, jr. bibliog Am Chem Soc J 64:1025-31 My '42

Alkylation of benzene in the presence of acid catalysts. R. L. Burwell, jr. and S. Archer. bibliog Am Chem Soc J 64:1032-4 My '42

Aluminum-magnesium alloys resist attack. L. J. Benson and R. B. Mears. bibliog Chem & Met Eng 49:88-91 Ja '42

Apparent degree of ionization of hydrochloric, sulfuric, and acetic acids; an electrolytic conductivity experiment for general chemistry. L. E. West and A. Gahler. diag J Chem Educ 19:366-8 Ag '42

Apparent molal volumes of aqueous solutions of sulfuric acid at 25°. I. M. Klotz and C. F. Eckert. Am Chem Soc J 64:1878-80 Ag '42

Calculation of the thermodynamic properties and the association of electrolyte solutions. G. Scatchard and L. F. Epstein. bibliog Chem R 30:211-26 Ap '42

Chemical treatment of trade waste; laundry wastes. F. D. Snell and J. M. Fain. plan Ind & Eng Chem 34:970-2 Ag '42

Color reaction of organic nitrogen compounds with selenious acid-sulfuric acid solution. B. T. Dewey and A. H. Gelman. bibliog Ind & Eng Chem Anal ed 14:361-2 Ap 15 '42

Electropolishing stainless steel. C. L. Faust and H. A. Pray. Steel 109:80, 82+ N 17 '41; Abstract. Iron Age 147:57-60 Je 26 '41

Extension of the acidity scale. L. Michaelis and S. Granick. Am Chem Soc J 64:1861-5 Ag '42

Manganese investigations, Metallurgical division; hydrometallurgical studies of manganese ores; laboratory experiments on sulfur dioxide-sulfuric acid leaching of black and brown manganiferous iron ores of the Cuyuna range of Minnesota. C. T. Anderson. U S Bur Mines Rep of Invest 3649:1-38 '42

Simplified method for the preparation of aromatic sulfuric acid esters. J. Feigenbaum and C. A. Neuberg. Am Chem Soc J 63:3529-30 D '41

Solubility of strychnine acid sulfate in sulfuric acid. B. M. G. Zwicker and R. J. Robinson. Am Chem Soc J 63:3538 D '41

Sulphuric acid and sulphur, 1941. Chem & Met Eng 49:82-4+ F '42

Sulphuric acid carbonization method adapted for mixed-fabric analysis. Textile Col 63: 670+ D '41

Sulphuric acid pickling of steel. O. G. Pamely-Evans. il Blast F & Steel Pl 30: 224-6 F '42

System nitric acid—sulfuric acid—water; enthalpy-temperature nomograph. J. L. McCurdy and C. McKinley. Ind & Eng Chem 34:1002-4 Ag '42

War's brimstone; supply of sulphuric acid and sulphur appears adequate. Business Week p54+ F 21 '42

Analysis

Acid indicator used in controlling industrial process. Sci Am 166:150 Mr '42

SULFURIC acid—*Continued*

Manufacture

Electrostatic precipitation; wide applications in the chemical industry. D. D. Howat. bibliog il diag Chem Age (Lond) 46:165-8 Mr 28 '42

Kinetics of the chamber process for sulphuric acid. F. H. Peakin. Soc Chem Ind J 60: 251-3 O '41

Possible lines for training and up-grading operating personnel in a large contact sulphuric plant; chart. Chem & Met Eng 48: 101 N '41

SULFURIC anhydride. See Sulfur trioxide

SULFUROUS acid

Persulphate test with luminol and luminescence inductions with sulphurous acid. A. Steigmann. Soc Chem Ind J 61:68 Ap '42

Analysis

New colour reaction for sulphurous acid, the thiol group, and formaldehyde. A. Steigmann. Soc Chem Ind J 61:18-19 Ja '42

SULFURYL chloride

Softening of unshrinkable wool. A. J. Hall. Textile Col 64:331+ Jl '42

SULLIVAN, Frederick William, jr. 1895-

Sullivan goes to Institute of gas technology. por Chem & Eng N 20:1089 S 10 '42

SULLIVAN, Michael Xavier, 1875-

Receives Hillebrand award. Oil Paint & Drug Rep 141:7+ Mr 23 '42

SULPHUR. See Sulfur

SUMATRA

See also

Forests and forestry
—Sumatra

SUMATROL

Constituents of derris and other rotenone-bearing plants. H. L. Haller, L. D. Goodhue and H. A. Jones. Chem R 30:33-48 bibliog(77 references, p47-8) F '42

SUMMER

Summer of 1941 hotter than '40, degree-hour data show. Heat & Ven 38:26 D '41

SUMMER business

Duff's hot weather advertising ends traditional summer slump for Gingerbread mix. Sales Management 51:36 S 1 '42

SUMMER colonies

Five houses in St Joseph's, New York, forming small private summer resort. il plans Arch Forum 76:248-52 Ap '42

SUMMER resorts

Advertising

Resorts and hotels sing a new tune. il Ptr Ink 200:18-19 Jl 10 '42

SUN

Age of the sun and stars; abstract. G. Gamow. Science 94:sup10 N 7 '41

Distance of the sun from the earth; abstract. Science 94:sup8 N 21 '41

93,000,000 miles; after decade of laborious calculations, the sun's distance is slightly corrected. H. N. Russell. Sci Am 165:326-7 D '41

Where is the sun? charts for determining the azimuth, altitude and incident angles; useful in calculating solar heat gains. M. J. Wilson and J. M. Van Swaay. diags map Heat & Ven 39:41-6 My; 59-61 Je '42

See also

Eclipses, Solar
Solar radiation

Corona

Atomic fission; abstract. M. N. Saha. Science 96:sup8 Jl 10 '42

Temperature

Mechanism of the sun's heat; abstract. H. A. Bethe. Science 95:sup 10 Mr 20 '42

SUN life assurance company of Canada

1941 report shows increases in all important items. Comm & Fin Chr 155:698 F 14 '42

SUN oil company

Annual report. Comm & Fin Chr 155:1221 Mr 23 '42

Who's who in refining. Oil & Gas J 40:81 Ap 23 '42

SUN spots. See Sunspots

SUNBURN

Natural protection against sunburn. H. F. Blum and J. S. Kirby-Smith. bibliog Science 96:203-4 Ag 28 '42

1942 sunburn lotions. L. Stambovský. Consumers' Research Bul 9:17-18 Je '42

SUNDAY labor

Bars double-time pay for week-end work. Comm & Fin Chr 156:992 S 17 '42

Prohibition of double pay for Sunday and holiday work. Monthly Labor R 55:717-19 O '42

Sunday overtime? question raised by continuous plant operation. Business Week p76 F 7 '42

See also Rest days

SUNFLOWER oil

Hydrogenation of oils; abstract. G. M. Zhabrova. Chem Age (Lond) 46:318 Je 27 '42

SUNFLOWER seed

Argentine grain regulating board authorized to purchase 1941-42 crop. For Comm W 7:10 My 16 '42

Argentine sunflower-seed crop, 1941-1942, and table giving exports of sunflower seed and sunflower-seed oil, 1939-1941. For Comm W 7:24-5 My 9 '42

SUNFLOWERS

Canada's sunflower plantings. For Comm W 9:30 O 31 '42

SUNLIGHT

Effect of light on riboflavin solutions; effect of sunlight on reduced and unreduced solutions. C. M. O'Malley and C. W. Sievert. Ind & Eng Chem 34:1117-18 S '42

Sunlight and accelerated light aging of synthetic rubbers. R. E. Morris, R. R. James and T. A. Werkenthin. Rubber Age 51: 205-8 Je '42

See also

Daylight
Photosynthesis
Solar radiation

SUNSHINE

Electronic eye records ultraviolet in sunshine. Refrig Eng 44:175 S '42

SUNSPOTS

Atmospheric-electric disturbances accompanying the bright auroras of March 25, 1940, and Sept. 18, 1941. H. T. Stetson. Science 94:574-8 D 19 '41

Correlation between atmospheric potential gradient anomalies and solar eruptions. F. L. Cooper. bibliog Am J Sci 240:584-93 Ag '42

Ionospheric investigations at Huancayo magnetic observatory (Peru) with applications to wave transmission theory; abstract. H. W. Wells. Electronics 15:33-4 F '42

Menacing long series of droughts; solar electron theory. H. P. Gillette. Roads & Sts 84:48+ N '41; Same. Water Works & Sewerage 88:571-7 D '41

Powerful magnetic field discovered in sunspots that blacked-out radio communications. Science 95:sup 10 Mr 20 '42

Sunspots; mystery of sudden reversal in magnetic polarity; abstract. S. B. Nicholson. Science 94:sup10 N 7 '41

SUPERCHARGERS

Martin's Mars, largest flying boat, has supercharging of air for crew. il Heat & Ven 39:42 S '42; Same. Heating-Piping 14:548 S '42

More steam without more boilers. G. H. Urban. Paper Ind 24:754-5 O '42

See also

Airplane engines—
Superchargers

Diesel engines—
Superchargers

SUPERCHARGERS—*Continued*

Manufacture

McCulloch superchargers in the making. J. Geschelin. il Automotive Ind 86:18-24+ Ja 1 '42

Testing

Special clutch motor tests superchargers. il Elec W 117:832 Mr 7 '42

SUPERCONDUCTORS. See Electric conductors

SUPERCOOLING. See Undercooling

SUPERHEATED steam

Benefits of superheated steam. G. M. Stearns. Oil & Gas J 41:55 S 17 '42

Corrosion of unstressed steel specimens and various alloys by high-temperature steam; abstract. Solberg, Hawkins and Potter. Oil & Gas J 40:54 Mr 12 '42

Effect of priming on degree of superheat. G. M. Stearns. Oil & Gas J 41:61 Ag 27 '42

Properties of superheated steam. G. M. Stearns. Oil & Gas J 41:53 Ag 13; 69-70 Ag 20 '42

Steam-temperature control; constancy over a wide range of turbine loading. diags Elec R (Lond) 130:615-18 My 15 '42

SUPERHEATER company

Another look at your company. Mag of Wall St 70:184-5 My 30 '42

SUPERHEATERS

Steam-temperature control; constancy over a wide range of turbine loading. diags Elec R (Lond) 130:615-18 My 15 '42

Repair

Welded inserts for superheater tubes. il diag Elec W 118:648 Ag 22 '42

SUPERHIGHWAYS. See Roads—Superhighways

SUPERIOR oil company of California

Debentures offered. Comm & Fin Chr 154: 1152 N 22 '41

3½s, 1956; recent discovery program has added to company's reserves. Comm & Fin Chr 155:16 Ja 1 '42

SUPERLIQUID. See Liquids

SUPERMARKETS. See Market stores

SUPERPHOSPHATES. See Phosphates

SUPERPOSITION, Principle of

Some measurements on the validity of the principle of superposition in solid dielectrics. H. Silva and B. Gross. Phys R 60: 684-7 N 1 '41

SUPERSATURATION. See Solution (chemistry)

SUPERSONIC waves. See Ultrasonic waves

SUPERVISORY workers

Elements of supervision. W. R. Spriegel and E. Schulz. 273p bibliog(p266-8) $2.25 Wiley '42

Finding and training supervisors; Murray corporation of America, Detroit. M. B. Lindquist. Factory Management 100:74-5+ Ag '42

Supervision. H. Moore; D. E. Jackey. Personnel J 20:353-62 Ap '42

Women bosses. Business Week p44+ O 17 '42

See also

Executives
Foremen

SUPPLY and demand

Application of the theory of linear hypotheses to the coefficient of elasticity of demand. M. A. Girshick. Am Statis Assn J 37:233-7 Je '42

Theory of consumer's demand. R. T. Norris. 206p $3 Yale univ. press '41

See also

Competition
Consumption (economics)
Prices
Production, Limitation of

SUPREME court. See United States—Supreme court

SURETY and fidelity insurance. See Insurance, Surety and fidelity

SURETYSHIP and guaranty

Cases and materials on security transactions. W. F. Walsh and L. P. Simpson. 2v v 1 $6; v2 $5 West '41-'42

Cases and materials on the law of suretyship. L. P. Simpson. 538p $5.50 West '42

Law of fidelity bonds. F. H. Deady. 240p $5 Rough notes co, Indianapolis '41

Personal surety. A. H. Russell. East Underw 42:31 D 5 '41

So you went on a note for a friend; advice to co-signers. L. T. Parker. Bus Transportation 21:172-3 Ap '42

Surety bill effective in New York Sept. 1. A. L. Carr. Weekly Underw 146:1103 My 16 '42

See also

Insurance, Surety and fidelity

SURFACE active substances

Effect of surface-active agents on electro-organic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46:42-51 Ja '42

Evaluation of a surface active agent for metal cleaning; Nacconol NR alone and with alkalies. O. M. Morgan and J. G. Lankler. il Ind & Eng Chem 34:1158-61 O '42

See also

Cleaning compositions
Dispersing agents
Wetting agents

SURFACE energy

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64: 2383-8 O '42

Binding energy between a crystalline solid and a liquid; the energy of adhesion and emersion; energy of emersion of crystalline powders. W. D. Harkins and G. E. Boyd. bibliog diag Am Chem Soc J 64:1195-1204 My '42

Energy of immersion of crystalline powders in water and organic liquids. G. E. Boyd and W. D. Harkins. bibliog diags Am Chem Soc J 64:1190-4 My '42

Energy relations of the surface of solids; surface energy of the diamond. W. D. Harkins. diags J Chem Phys 10:268-72 My '42

Energy relations of the surfaces of solids; spreading pressure as related to the work of adhesion between a solid and a liquid. W. D. Harkins and H. K. Livingston. diags J Chem Phys 10:342-56 Je '42

Molecular surface energy of sulfur dioxide addition compounds. J. R. Bright and J. J. Jasper. bibliog Am Chem Soc J 63:3486-8 D '41

SURFACE phenomena

Excitation of the anode effect. P. L. Copeland and G. G. Carne. diags Phys R 61: 635-42 My 1 '42

Interaction between a molecule and a metal surface. E. J. R. Prosen and R. G. Sachs. Phys R 61:65-73 Ja 1 '42

Model method of photographic and photometric determination of heat radiation between surfaces and through absorbing gases. M. Jakob and G. A. Hawkins. il diags J Ap Phys 13:246-54 Ap '42

Role of surface chemistry and profile in boundary lubrication. J. T. Burwell. S A E J 50:450-7 O '42

Surface fugacity and the heat of free expansion on a surface for a single-component insoluble film. W. B. Innes and H. H. Rowley. J Phys Chem 46:548-54 My '42

Variation of reaction mechanism with surface conditions in the reduction of silver salts by hydroxylamine. T. H. James. bibliog J Chem Phys 10:464-8 Jl '42

See also

Adsorption
Catalysis
Contact angle
Electric contacts
Films
Friction
Spreading
Surface tension
Wetting

SURFACE tension

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Effect of temperature on the surface tension and density of some halogen substituted acetic acids. J. J. Jasper and L. Rosenstein. bibliog Am Chem Soc J 64:2078-9 S '42

Film balance as an analytical tool for biological and food research. G. E. Boyd and W. D. Harkins. bibliog il diags Ind & Eng Chem Anal ed 14:496-502 Je 15 '42

Hydrometer-type float method for measuring surface and interfacial tensions. B. Vonnegut. R Sci Instr 13:82-3 F '42

Measurement of surface tension; a laboratory experiment. T. H. Hazlehurst. diags J Chem Educ 19:61-5 F '42

Relative surface tension of potassium chloride solutions by a differential bubble pressure method. F. A. Long and G. C. Nutting. bibliog diag Am Chem Soc J 64:2476-82 O '42

Rotating bubble method for the determination of surface and interfacial tensions. B. Vonnegut. il R Sci Instr 13:6-9 Ja '42

Spreading of oils on water; spreading pressures and the Gibbs adsorption relation. W. A. Zisman. bibliog J Chem Phys 9:789-93 N '41

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine acetates; the surface tension of aqueous solutions of dodecylamine acetate. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:2067-70 S '42

Studies on high molecular weight aliphatic amines and their salts; soluble and insoluble films of the amine hydrochlorides. E. J. Hoffman, G. E. Boyd and A. W. Ralston. bibliog Am Chem Soc J 64:498-503 Mr '42

Study of organic parachors; constitutive variations of the parachors of a series of normal ketones. K. Owen, O. R. Quayle and W. J. Clegg. Am Chem Soc J 64:1294-6 Je '42

Surface tension, liquid density, and vapor density of sulfur dioxide solutions of potassium thiocyanate at 10°, 15°, 20°, and 25°C. W. G. Eversole, G. H. Wagner and G. C. Bailey. bibliog diag J Phys Chem 45:1388-97 D '41

Surface tension of glass and its effect on cords. W. B. Silverman. il Am Cer Soc J 25:168-73 Mr 15 '42

Surface tension of micelle-forming solutions. H. M. Cassel. bibliog J Chem Phys 10:246 Ap '42

Surface tension of solutions of electrolytes as a function of the concentration; sodium chloride. G. Jones and W. A. Ray. Am Chem Soc J 63:3262-3 D '41

Surface tension-viscosity nomograph for organic liquids. D. S. Davis. Ind & Eng Chem 34:1231 O '42

Surface tensions of methane-propane mixtures; abstract. D. L. Katz and C. F. Weinaug. Nat Pet N 34 pt 2:R319 S 30 '42

Viscosity and surface tension effects on V-notch weir coefficients. A. T. Lenz. bibliog il diags Am Soc C E Proc 68:351-74 Mr '42; Discussion. 68:1033-4, 1186-98; 69:163-5 Je, S '42, Ja '43

See also
Interfacial tension

SURFACES

Brightness rating of metal surfaces measured by reflected light. A. M. Suggs. diag Product Eng 13:253 My '42

Calculation of the surface area of microporous solids from measurements of heat conductivity. S. S. Kistler. bibliog diags J Phys Chem 46:19-31 Ja '42

Electron microscope study of surface structure. R. D. Heidenreich and V. G. Peck. bibliog il Phys R 62:292-3 S 1 '42

Energy relations of the surface of solids. W. D. Harkins and H. K. Livingston. diags J Chem Phys 10:268-72, 342-56 My-Je '42

Generating flat surfaces. E. V. Wait. diags Engineering 152:381-3 N 14 '41

Nature of a polished surface. L. Motz. Opt Soc Am J 32:147-8 Mr '42

Nature of static friction. W. Claypoole and D. B. Cook. bibliog il diag Franklin Inst J 233:453-63 My '42

Readily visualized system for measuring the color of surfaces. R. M. Robertson and L. H. Milligan. il Am Cer Soc Bul 20:387-91 N '41

Relation of paint properties to surface areas of carbon black. O. J. Brown, jr. and W. R. Smith. bibliog il Ind & Eng Chem 34:352-5 Mr '42

Reproducible contact angles on reproducible metal surfaces; contact angles of saturated aqueous solutions of different organic liquids on silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1641-3 Jl '42

Reproducible contact angles on reproducible metal surfaces; contact angles of water against silver and gold. F. E. Bartell and P. H. Cardwell. bibliog il diags Am Chem Soc J 64:494-7 Mr '42

Reproducible contact angles on reproducible metal surfaces; interfacial contact angles between water and organic liquids on surfaces of silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1530-4 Jl '42

Self-sterilizing surfaces; compounding of silver with resins. A. Goetz, R. Tracy and S. Goetz. Science 95:537-8 My 22 '42

See also
Electric double layer
Films
Metal finishing

Smoothness testing

Brush electronic surface analyzer. diag Electronics 15:54+ Jl '42

Instrument for measuring surface roughness; utilizes Rochelle salt piezoelectric crystal, amplifier and oscillograph; Brush surface analyzer. C. K. Gravley. il diags Electronics 15:70-3 N '42

Surface irregularities of clear plastics; tentative method of test, A.S.T.M. D 637-41T. Mod Plastics 19:75 Je '42

Surface roughness controlled by use of aircraft standard. J. W. Borgquist. il diags Product Eng 13:638-40 N '42

SURGEONS

See also
American college of surgeons

SURGERY

Medico-surgical tributes to Harold Brunn. 571p $6 Univ. of California press, Berkeley '42

Methacrylate resins in surgery; with special reference to the reconstruction of arthritic joints. P. H. Harmon. il Mod Plastics 20:56-7+ S '42

Minor surgery. C. M. Oman. 165p bibliog(p157) $2 Oxford '42

Operating room procedure for nurses and internes. H. C. Falk. 3d rev ed 443p $3 Putnam '42

Shockless surgery; ice anesthesia, boon to aged in limb operations and a promise for war wounded in the field. B. M. Newman. il Sci Am 166:182-4 Ap '42

Some papers read at the Boston meeting of the American college of surgeons. Science 94:sup10+ N 14 '41

Surgical practice of the Lahey clinic, Boston, Mass. 897p $10 Saunders '41

Textbook of surgery by American authors. F. Christopher, ed. 3d ed rev 1764p $10 Saunders '42

See also
Amputation
Fractures (surgery)
Ointments
Splints (surgery)
Sutures

SURGERY, Military

Early treatment of war wounds. W. Anderson. 96p $1.50 Oxford '41

SURGERY, Plastic

Manual of standard practice of plastic and maxillofacial surgery. 432p $5 Saunders '42

SURGERY, Plastic—*Continued*
Plastic surgery of the breast and abdominal wall. M. Thorek. 446p $16.50 C. C. Thomas, 220 E. Monroe st, Springfield, Ill. '42

SURGES. See Electric transient phenomena

SURGICAL instruments and apparatus
History and evolution of surgical instruments. C. J. S. Thompson. 113p $8.50 Schuman's, 20 E. 70th st, New York '42
Plastics competition award to Cochrane physicians' supplies, inc.; surgical window. il Mod Plastics 19:140-1 N '41

SURGICAL sutures. See Sutures

SURINAM. See Dutch Guiana

SURPLUS
Availability of surplus for dividend purposes. J Account 74:378 O '42
Names wanted, a problem in terminology. J. L. Dohr. bibliog J Account 74:133-9 Ag '42; Discussion. 74:354-5 O '42
Problems of capital surplus. C. V. Koehn. J Account 73:321-6 Ap '42
Should the term "surplus" be eliminated? report of the subcommittee of American institute of accountants. J Account 73:451-7 My '42

SURPLUS marketing administration. See United States—Agricultural marketing administration

SURPLUS materials exchange. See Los Angeles—Surplus materials exchange

SURREALISM (art)
Great flight of culture; twelve artists in U.S. exile; portfolio. il Fortune 24:102-15 D '41

SURVEYING
Elementary plane surveying; text and manual. R. E. Davis. 2d ed 464p bibliog(p333-4) $3 McGraw-Hill '41
Engineering surveys: elementary and applied. H. Rubey, G. E. Lommel and M. W. Todd. 664p, 170p $4.50 Macmillan '42
Importance of surveys and maps in public work programs; part the WPA has played. M. Y. Poling. il Civil Eng 12:385-8 Jl '42
Relative angular, linear, and traverse accuracies in city surveys. S. A. Bauer. Am Soc C E Proc 68:737-50 My '42; Discussion. 68:1439-48, 1659-60 O-N '42
Signal lamps for night surveying. D. L. Parkhurst. il diags Eng N 128:184 Ja 29 '42
Spirit leveling in Michigan, 1896-1938. J. G. Staack. map U S Geol S Bul 919:1-523, pl 1-2; pa 65c Supt. of doc. '41
Surveying. C. B. Breed. 495p $3 Wiley '42
Surveyors' field-note forms. C. E. Bardsley and E. W. Carlton. 2d ed 127p $1.50 International textbook co, Scranton, Pa. '42
Surveys for the reconstruction of tube stations. T. M. Megaw. Engineering 154:55, 64-5, 83-5 Jl 17-31 '42
See also
Leveling
Transit, Surveyor's

SURVEYING, Aerial
Aerial survey parties active in 1941, locating mineral areas and laying out pipe lines. W. E. D. Stokes, jr. Min & Met 23:65-6 F '42
Aerophotography and aerosurveying. J. W. Bagley. 324p bibliog(p317) $3.50 McGraw-Hill '41
See also
Mapping, Aerial

SURVEYING instruments
Care of engineering and surveying instruments. L. H. Berger. Roads & Sts 85:62, 64 Ag '42
Determining telescope magnification by the principal planes method. L. W. Jones. Eng N 128:410 Mr 12 '42
Tunnel survey methods and instruments. R. Hammond. diags Engineer 173:79-81 Ja 23 '42
See also
Transit, Surveyor's

SURVEYOR'S transit. See Transit, Surveyor's

SURVEYS, Building. See Building surveys; Housing surveys; Real estate business—Surveys

SURVEYS, Market. See Market surveys

SURVEYS, Social. See Social surveys

SURVIVORSHIP, Presumption of
Executor of beneficiary dying with insured in common disaster has burden of proving survivorship. Weekly Underw 145:1430 D 20 '41

SUSPENSION bridges. See Bridges, Suspension

SUSPENSION of vehicles. See Vehicles—Suspension

SUSPENSIONS
Distribution graphs of suspended-matter concentration. J. W. Johnson. bibliog Am Soc C E Proc 68:1383-98 O '42
Fractionation of colloidal systems; selection of operating conditions for the supercentrifuge. G. Fancher, S. C. Oliphant and C. R. Houssiere, jr. Ind & Eng Chem Anal ed 14:552-4 Jl 15 '42
Magneto-optical properties of ferromagnetic suspensions. H. Mueller and M. H. Shamos. bibliog il Phys R 61:631-4 My 1 '42
Physics of pigments in dispersed systems. H. Green. bibliog il J Ap Phys 13:611-22 O '42
Pipe-line flow of solids in suspension. L. C. Fairbank, jr.; W. E. Wilson. Am Soc C E Proc 67:1421-44 O '41; Discussion. 67:1445-7, 1937-8; 68:480-2 O, D '41, Mr '42
Settling and thickening of aqueous suspensions. K. Kammermeyer. bibliog il Ind & Eng Chem 33:1484-91 D '41
See also
Sedimentation
Separators

SUTHERLAND paper company
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 F 9 '42

SUTURES
New plants of 1941; surgical sutures. il Factory Management 100:B52-B53 Ap '42
Physiologic action of metallic magnesium. S. F. Meek and others. il J Ind Hygiene 24:142-7 Je '42

SWALLOWS
Seven-year-old bank swallow. D. Stoner and L. C. Stoner. Science 96:273 S 18 '42

SWAMPS. See Marshes

SWARTZ, Carl Errett, 1900-
Sketch. por Min & Met 23:506 O '42

SWEAT. See Perspiration

SWEDEN
See also
Architecture—Sweden
Labor and laboring classes—Sweden
Railroads—Sweden
Shipping—Sweden
Wages—Sweden

Economic conditions

News by countries. For Comm W 7:13 Ap 11; 23 My 23; 8:21 Jl 18; 15 S 19 '42
Sweden carries on. il For Comm W 7:6-8+ Je 13 '42
Sweden in 1941. Economist 142:sup12 Mr 14 '42

Economic policy

National planning in selected countries. L. L. Lorwin. 173p U.S. Nat. resources planning board, Washington; pa 40c Supt. of doc. '41

SWEET gum
Absorption of chemicals from neutral sodium sulphite liquor by sweetgum chips. J. N. McGovern, J. N. Evert and G. H. Chidester. Paper Tr J 113:27-31 D 4 '41
Pulping sweetgum by alkaline processes. M. W. Bray and J. S. Martin. il Paper Tr J 113:35-46 D 18 '41

SWEET potatoes
Determination of starch by the A.O.A.C. malt-diastase method; effect of pretreatment of samples. R. T. Balch and J. K. Phillips. Ind & Eng Chem Anal ed 13:815-18 N 15 '41
Dextrines and semi-dextrines from minor starches; standard processes with rice and sweet-potato starch. R. L. Datta and P. K. Chatterjee. Chem Age (Lond) 46:201-2 Ap 18 '42

SWEET potatoes—*Continued*

Sweet potatoes in paper bags. Paper Tr J 115:16 S 24 '42

SWEETENING agents

Food processors face sweetener shortage. R. S. McBride and G. W. McBride. il map Food Ind 14:54-6 Mr '42

Vegetable oils in sugar confectionery; sweetening agents; solubilising starch. A. E. Williams. Chem Age (Lond) 47:362-4 O 24 '42

See also

Saccharin
Sugar

SWEETGUM. See Sweet gum

SWELLING

Effect of aniline point of oil on swelling of synthetic rubbers. A. C. Hanson. Ind & Eng Chem 34:1326-7 N '42

Effect of petroleum products on neoprene vulcanizates; effect of kerosenes. D. F. Fraser. bibliog Ind & Eng Chem 34:1298-1300 N '42

Electrokinetic equations for gels and the absolute magnitude of electrokinetic potentials. J. J. Bikerman. bibliog J Phys Chem 46:724-30 Je '42

Fillers; swelling properties and structure. R. J. Kent and J. Seiberlich. il Mod Plastics 19:65-9+ Je '42

Swelling of cellulose acetate in aqueous phenol solutions. R. J. B. Marsden and A. R. Urquhart. bibliog il diag Textile Inst J 33:T105-36 Jl '42

Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42; Excerpts. India Rubber W 106:251 Je '42

See also

Coal—Swelling
Expansion (heat)

SWIFT and company

Annual report, 1941. Comm & Fin Chr 154:1633 D 23 '41

High yield stocks. S. Devlin. il Mag of Wall St 69:658 Mr 21 '42

How Swift trains future executives. F. C. Minaker. il Am Business 12:16-18+ Ja '42

SWIMMING pool water. See Water purification—Swimming pool water

SWIMMING pools

Design and operation of municipal swimming pools. P. W. Reed. il plan Water & Sewage 80:17-20+ Je '42

Redwood swimming pool. il diag Am Bld 63:84 D '41

SWINDLERS and swindling

Gyps make hay. Business Week p40 O 24 '42

Payoff on a tip. Business Week p78-9 O 3 '42

Repairmen will get you if you don't watch out. R. W. Riis and J. Patric. 271p $1.95 Doubleday '42

You pay and you pay; an expose of the respectable racketeers in American finance. M. M. Goldman. 322p $2.50 Howell, Soskin, New York '41

See also

Forgery
Fraud
Insurance—Fraudulent statements
Insurance, Accident—Fraudulent claims
Insurance, Fire—Fraudulent claims

SWINE

Builders put hogs on concrete for bigger pork profits; how to plan and build permanent sanitary hog house and feeding floor. il plan Am Bld 64:82-3 Ap '42

Compulsory hog raising in Slovakia. For Comm W 8:26 Jl 4 '42

Corn-hog coup; ever-normal granary system getting supernormal flow of hogs to wartime markets. Business Week p62 My 2 '42

Hog and pork situation in Argentina; Canada's production expanding. For Comm W 7:22-3 My 30 '42

Increase in hog marketings likely. Barron's 22:6 Ap 13 '42

Odor removal at hog station. il Heat & Ven 39:58 My '42

See also

Pork products

Prices

Hog price rise creates problems. Barron's 22:6 F 23 '42

Hog prices finally break. Barron's 22:6 O 19 '42

Runaway hogs; prices push up to 16-year top. Business Week p85-6 Ap 11 '42

SWING bridges. See Bridges, Swing

SWITCHBOARDS

Glareless illumination for instrument boards; direct lighting supplemented by plastic meter cases or reflecting shelves. E. D. Tillson. il diags Elec W 116:1715-16+ N 29 '41

Igranic improved control-panel cabinets. il Elec R (Lond) 130:216 F 13 '42

Sectional relay panel permits regrouping. J. C. Woods. il diag Elec W 117:842+ Mr 7 '42

Switchgear for modernizing hot strip mills. W. N. Gittings. il Steel 110:67-8+ F 2 '42

SWITZERLAND

See also

Housing—Switzerland

Army

Pay, allowances, etc.

Allowances for dependents in Swiss military service. Monthly Labor R 53:1166-7 N '41

Economic conditions

Annual report of the Swiss national bank, 1941. Fed Res Bul 28:649-61 Jl '42

News by countries. For Comm W 6:12 Mr 14; 13 Ap 4; 9:21 O 17 '42

Swiss withstand encircling gloom. il For Comm W 7:5-7, 41-2 Je 20 '42

Switzerland in 1941. Economist 142:sup11-12 Mr 14 '42

Switzerland keeps going. Economist 142:504 Ap 11 '42

Economic policy

Swiss-German economic relations. Economist 141:653 N 29 '41

Switzerland reduces consumption. Economist 141:752 D 20 '41

Industries and resources

Under swastika? Swiss chemical industry. Business Week p82+ S 12 '42

SWOPE, Gerard, 1872-

Awarded the fourth triennial Hoover gold medal. por Elec Eng 61:574-5 N '42

Sixth recipient of the Hoover medal. Science 96:423 N 6 '42

SYENITE

See also

Nephelite syenite

SYLVANIA electric products, inc. (formerly Hygrade Sylvania corporation)

Sylvania Electric: growth company. K. Brandon. Barron's 22:20 O 5 '42

SYLVIS, William H. 1828-1869

William H. Sylvis and the national labor union. C. Todes. 128p bibliog(p117-20) 75c International publishers, New York '42

SYLVITE

Potash company of America; producer of sylvite at Carlsbad. R. A. Pierce and L. D. Anderson. il Eng & Min J 142:37-41 D '41; 143:38-41 Ja '42

SYMBOLISM

Philosophy in a new key; a study in the symbolism of reason, rite and art. S. K. Langer. 313p bibliog(p295-302) $3.50 Harvard univ. press '42

SYMBOLS

A.P.I. report on pipe-thread symbols. J. J. Dunn. Am Pet Inst Proc 22(4):136-9 '41

SYMBOLS—*Continued*

ASA approves standard mechanical symbols for uniform use on drawings. R. L. Young. Ind Stand 13:55-9 Mr '42

Complete official text of allocation classification system. Steel 110:52a-52h Je 22 '42

Contract by code; Stanley plan. Business Week p22+ My 9 '42

Graphical symbols for drawings. Heating-Piping 14:448-52 Jl '42

Graphical symbols for use on drawings. Am Water Works Assn J 34:313-27 F '42

Language of instrumentation; some problems of terminology, letter symbolism, graphic symbolism, etc. Instruments 15:298-305+ Ag '42

New American standard letter symbols for mechanics. R. E. Peterson. Ind Stand 13:195-6 Jl '42

Production code based on end-use symbols studied. Oil Paint & Drug Rep 142:3+ Ag 17 '42

Proposed definitions of terms and symbols relating to soil mechanics. Am Soc T M Proc 41:460-6 '41

Relationship of identification numbers to weight and cost control. D. R. Watson. Aero Digest 41:106 Jl '42

Standard code speeds letting of subcontracts; Stanley plan. Ind Stand 13:112-13 My '42

Standards for letter symbols; mechanics and hydraulics. Civil Eng 12:58-61 Ja '42

Symbols for human genes. R. R. Gates. Science 95:17-18 Ja 2 '42

Symbols of products manufactured under PRP; alphabetical list of products and industries. Iron Age 149:116-19 Je 25 '42

12.10; new scheme of allocation classification symbols as applied to water works and sewage requirements in Canada. Water & Sewage 80:18-19+ Jl '42

What and why of the new American standard letter symbols for hydraulics. J. C. Stevens. Ind Stand 13:87-9 Ap '42

See also

Freight cars—Numbering

SYNCHRONIZING

How to connect bus voltmeter and synchronizing equipment; diagrams. Elec W 117:1376 Ap 18 '42

Methods used for dealing with synchronizing pump troubles. il diag Oil & Gas J 41:103-4 S 24 '42

Out-of-step indicator visualizes asynchronism; cathode-ray tubes on 60,000-kva. frequency changer. T. M. Blakeslee. diag Elec W 117:1177-8 Ap 4 '42

Synchronizes dual drive; differential gear system; patent. diag Machine Design 13:124+ D '41

Timing in production regulation; speed synchronization. il Rayon 23:111-14 F '42

SYNCHROSCOPE

Maintenance and servicing of electrical instruments. J. Spencer. il diags Instruments 15:248-52+ Jl '42

SYNTHESIS

Action of diazomethane upon acyclic sugar derivatives; a new synthesis of ketoses and of their open chain (*keto*) acetates. M. L. Wolfrom, S. W. Waisbrot and R. L. Brown. bibliog Am Chem Soc J 64:2329-31 O '42

Alkyl carbonates in synthetic chemistry; condensation with nitriles; synthesis of α-cyano esters. V. H. Wallingford, D. M. Jones and A. H. Homeyer. bibliog Am Chem Soc J 64:576-8 Mr '42

Amino ketones; synthesis of amino alcohols and 1,3-diamino compounds from β-amino ketones. N. H. Cromwell, Q. T. Wiles and O. C. Schroeder. bibliog Am Chem Soc J 64:2432-5 O '42

Anhydrous hydrogen chloride gas; review of methods of production. A. H. Maude. bibliog flow diag il diag Am Inst Chem Eng Trans 38:865-82 Ag '42

Azulenes; synthesis of vetivazulene. R. R. Coats and J. W. Cook. Chem Soc J p559-62 S '42

Branched-chain fatty acids; synthesis of 17-methyloctadecanoic acid. J. Cason. bibliog Am Chem Soc J 64:1106-10 My '42

Chemistry of isoquinolines. R. H. Manske. Chem R 30:145-58 bibliog(102 references, p156-8) F '42

Chemistry of quinolines. R. H. Manske. Chem R 30:113-44 bibliog(231 references, p140-4) F '42

Cinnolines; some new examples. J. C. E. Simpson and O. Stephenson. Chem Soc J p353-8 My '42

Comparison of metallic chlorides as catalysts for the Friedel-Crafts ketone synthesis. O. C. Dermer and others. bibliog Am Chem Soc J 63:2881-3 N '41

Condensations; various acylations and alkylations of the sodium enolates of aliphatic esters; methods for the syntheses of α,α-disubstituted β-keto esters and of certain other compounds. B. E. Hudson, jr. and C. R. Hauser. bibliog Am Chem Soc J 63:3156-62 N '41

Convenient synthesis of *dl*-methionine. H. R. Snyder and others. bibliog Am Chem Soc J 64:2082-4 S '42

Coumaran derivatives; synthesis of 3,4,6,3′,4′-pentahydroxy-2-benzylcoumaran. R. L. Shriner and F. Grosser. bibliog Am Chem Soc J 64:382-4 F '42

Further study of the cyclization of ureido derivatives of unsymmetrical iminodibasic acids together with the synthesis of certain hydantoins and other related compounds. D. R. Seeger and A. MacMillan. bibliog Am Chem Soc J 64:1686-91 Jl '42

Graebe-Ullmann synthesis of carbazole derivatives; preparation and synthesis of 1-nitrocarbazole. R. W. G. Preston, S. H. Tucker and J. M. L. Cameron. Chem Soc J p500-4 Ag '42

Inactivation in the camphene series. J. J. Ritter and G. Vlases, jr. bibliog Am Chem Soc J 64:583-5 Mr '42

Long-chain acids containing a quaternary carbon atom. A. J. Birch and R. Robinson. Chem Soc J p488-97 Ag '42

Mechanism of aromatizing diene reactions in nitrobenzene. F. Bergmann. Am Chem Soc J 64:176-7 Ja '42

Method for the synthesis of certain 2-substituted phenanthrenes. B. Riegel, M. H. Gold and M. A. Kubico. bibliog Am Chem Soc J 64:2221-2 S '42

N-methylformanilide synthesis of aldehydes. L. F. Fieser and J. E. Jones. bibliog Am Chem Soc J 64:1666-9 Jl '42

New acid synthesis; the effect of hindrance; methyl tertiary-butyl- and methylethylpropylacetic acids. J. G. Aston and others. Am Chem Soc J 64:300-2 F '42

New method of synthesizing aliphatic difluorides. M. W. Renoll. Am Chem Soc J 64:1115-16 My '42

New route to the synthesis of dibenzfluorenones. G. Swain and A. R. Todd. Chem Soc J p674-9 O '41

New synthesis of phthalaldehydes. T. C. Chaudhuri. Am Chem Soc J 64:315 F '42

Optically active synthetic tetrahydrocannabinols; *d*- and *l*-1-hydroxy-3-*n*-amyl-6,9,9-trimethyl-7,8,9,10-tetrahydro-6-dibenzopyrans. R. Adams, C. M. Smith and S. Loewe. bibliog Am Chem Soc J 64:2087-9 S '42

Organic syntheses. L. I. Smith, ed. v 22 114p $1.75 Wiley '42

Preparation and alkylation of 1,4-dimesityl-3-methyl-1,2,4-butanetrione enol. R. E. Lutz and D. H. Terry. Am Chem Soc J 64:2423-6 O '42

Rubber, polyisoprenes, and allied compounds; the synthesis of low-molecular polyisoprenes of the rubber and the squalene type. E. H. Farmer and D. A. Sutton. Chem Soc J p116-21 F '42

Steric influences on the aromaticity of dipyrrylmethenes; the synthesis and study of the properties of a di-N-methyldipyrrylmethene. K. J. Brunings and A. H. Corwin. bibliog Am Chem Soc J 64:593-600 Mr '42

Studies in the naphthol AS series; synthetical experiments. R. V. Bhat, R. B. Forster and K. Venkataraman. bibliog Soc Dyers & Col J 56:166-78; 58:155-61, 203-6 Ap '40, Ag, O '42

SYNTHESIS—*Continued*

3,4-Substituted pyridines; synthesis of 3-vinyl-4-methylpyridine. J. R. Stevens, R. H. Beutel and E. Chamberlin. bibliog Am Chem Soc J 64:1093-5 My '42

Syntheses in the pyrazine series; 2-sulfanilamidopyrazine. J. W. Sausville and P. E. Spoerri. Am Chem Soc J 63:3153-4 N '41

Syntheses in the quinoline series; 2,4-disubstituted quinoline derivatives. F. J. Buchmann and C. S. Hamilton. bibliog Am Chem Soc J 64:1357-60 Je '42

Synthesis and anti-bacterial properties of alkyl and alkenyl derivatives of 2 : 6-dimethoxybenzoquinone. A. E. Oxford. Chem Soc J p577-8 S '42

Synthesis and characterization of some tertiary naphthenic acids. B. Shive, W. W. Crouch and H. L. Lochte. bibliog Am Chem Soc J 63:2979-84 N '41

Synthesis from rhodanine-oxindoles of keto and mercapto derivatives of cinchoninic acid. R. V. Jones and H. R. Henze. bibliog Am Chem Soc J 64:1669-72 Jl '42

Synthesis of 4,10-ace-1,2-benzanthracene utilizing Δ^4-tetrahydrophthalic anhydride. L. F. Fieser and F. C. Novello. bibliog Am Chem Soc J 64:802-9 Ap '42

Synthesis of 2-alkylaminoethanols from ethanolamine. A. C. Cope and E. M. Hancock. bibliog Am Chem Soc J 64:1503-6 Jl '42

Synthesis of amines from amides through the amidodichlorides. T. S. Work. Chem Soc J p429-32 Jl '42

Synthesis of 5-aminocoumarone-2,3-dicarboxylic acid cyclohydrazide; a heterocyclic analog of 4-aminophthalhydrazide. E. H. Huntress and W. M. Hearon. bibliog Am Chem Soc J 64:86-90 Ja '42

Synthesis of an analog of the sex hormones. W. E. Bachmann and D. G. Thomas. bibliog Am Chem Soc J 64:94-7 Ja '42

Synthesis of an isomer of estrone containing a phenolic B ring. W. E. Bachmann and A. B. Ness. bibliog Am Chem Soc J 64:536-40 Mr '42

Synthesis of α-bromo-β-methoxy-*n*-butyric acid. H. E. Carter and L. F. Ney. Am Chem Soc J 64:1223-4 My '42

Synthesis of cellobiose. W. T. Haskins, R. M. Hann and C. S. Hudson. bibliog Am Chem Soc J 64:1289-91 Je '42

Synthesis of compounds related to mould metabolic products; 3 : 5-dihydroxy-2-formylbenzoic acid and 3 : 5-dihydroxyphthalic acid. J. H. Birkinshaw and A. Bracken. Chem Soc J p368-70 My '42

Synthesis of condensed ring compounds. L. W. Butz, L. M. Joshel and J. Feldman. Am Chem Soc J 63:3344-51 D '41

Synthesis of condensed ring compounds; further applications of the dienyne double addition reaction. L. W. Butz and L. M. Joshel. bibliog Am Chem Soc J 64:1311-13 Je '42

Synthesis of derivatives of pyrimidine-5-carboxylic acid. E. Ballard and T. B. Johnson. bibliog Am Chem Soc J 64:794-8 Ap '42

Synthesis of 4,4′-diamidinostilbene hydrochloride. P. P. T. Sah. bibliog Am Chem Soc J 64:1487-8 Je '42

Synthesis of 3,5-diethylbenzoic acid. H. R. Snyder, R. R. Adams and A. V. McIntosh, jr. bibliog Am Chem Soc J 63:3280-2 D '41

Synthesis of 3′,5′-diiodothyronine. P. Block, jr. and G. Powell. bibliog Am Chem Soc J 64:1070-4 My '42

Synthesis of ethyl 1-methylpyrrolidine-2-acetate. F. E. King, J. W. Clifton and H. T. Openshaw. Chem Soc J p422-4 Jl '42

Synthesis of *p*-hydroxyphenyl amyl sulfide. E. Miller, F. S. Crossley and M. L. Moore. bibliog Am Chem Soc J 64:2322-3 O '42

Synthesis of 2′-ketodihydro-1,2-cyclopentenophenanthrene and derivatives of phenanthro[1,2-*b*]furan. A. L. Wilds. bibliog Am Chem Soc J 64:1421-9 Je '42

Synthesis of ketones of the type $RCOCHR_2$ from α,α-disubstituted β-keto esters; an extension of the acetoacetic ester type of ketone synthesis. B. E. Hudson, jr. and C. R. Hauser. Am Chem Soc J 63:3163-4 N '41

Synthesis of known hydrocarbons in petroleum. W. L. Faith. bibliog Pet Eng 13:96, 99, 102+ My '42

Synthesis of methyl α-methoxyacrylate and α-methoxyacrylonitrile; characterisation of methoxy-derivatives of propionic acid. J. W. Baker. Chem Soc J p520-2 Ag '42

Synthesis of 2-methylpyrrolizidine. G. R. Clemo and T. A. Melrose. Chem Soc J p424-6 Jl '42

Synthesis of 2,7-naphthalenedialdehyde; an attempted synthesis of coronene. J. H. Wood and J. A. Stanfield. Am Chem Soc J 64:2343-4 O '42

Synthesis of pentyl- and hexyl-α-naphthol. Y. Chi and C. Jang. Am Chem Soc J 63:3155-6 N '41

Synthesis of phenolic glycosides. T. H. Bembry and G. Powell. Am Chem Soc J 64:2419-20 O '42

Synthesis of some new glucose and gentiobiose derivatives. D. D. Reynolds and W. O. Kenyon. Am Chem Soc J 64:1110-12 My '42

Synthesis of the three isomeric *dl*-β-pyridylalanines. C. Niemann, R. N. Lewis and J. T. Hays. bibliog Am Chem Soc J 64:1678-82 Jl '42

Synthesis of unsymmetrical N-methyl dipyrrylmethanes. W. M. Quattlebaum, jr. and A. H. Corwin. Am Chem Soc J 64:922-5 Ap '42

Synthesizing drying oils; process of producing conjugation in unconjugated polyenes. G. O. Burr. Oil Paint & Drug Rep 140:3+ D 29 '41; 141:3+ Ja 5; 7+ Ja 12; 7, 38A-38B Ja 19 '42

Synthetic organic compounds as potential insecticides; with list of patents. L. E. Smith. Ind & Eng Chem 34:499-501 Ap '42

Thiazole research; synthesis of 2-phthalimidomethyl-4-N-diethylamino-methylthiazole. Y. Chi and S. Tshin. bibliog Am Chem Soc J 64:90-1 Ja '42

Total synthesis of a stereoisomer of the sex hormone estrone. W. E. Bachmann, S. Kushner and A. C. Stevenson. bibliog Am Chem Soc J 64:974-81 Ap '42

Tracer studies with radioactive carbon and hydrogen; the synthesis and oxidation of fumaric acid. M. B. Allen and S. Ruben. bibliog Am Chem Soc J 64:948-50 Ap '42

Tracer studies with radioactive carbon; the synthesis and oxidation of several three carbon acids. P. Nahinsky and others. bibliog Am Chem Soc J 64:2299-302 O '42

Use of Bunte salts in synthesis; the preparation of aliphatic disulfides. H. E. Westlake, jr. and G. Dougherty. bibliog Am Chem Soc J 64:149-50 Ja '42

Utilization of alkoxy ketones in the synthesis of quinolines by the Pfitzinger reaction. S. D. Lesesne and H. R. Henze. Am Chem Soc J 64:1897-1900 Ag '42

See also
Friedel-Crafts reaction
Photosynthesis
Wurtz reaction

SYNTHETIC organic chemical manufacturers association

Annual meeting, New York, Dec. 9. Oil Paint & Drug Rep 140:7+ D 15 '41

SYNTHETIC products

America turns pro; substitutes and synthetics play a big role in the race for materials. H. F. Lee. Barron's 22:5 Jl 6 '42

German synthetic paint plans point global economic problem. W. Alwyn-Schmidt. Oil Paint & Drug Rep 142:7+ Jl 13 '42

Petroleum; the new basic chemical. M. Pescatello. Barron's 22:25+ S 21 '42

Synthetic organic chemicals, 1941. Chem & Met Eng 49:94-6+ F '42

SYNTHETIC products—*Continued*
Synthetics consultants named for army. Oil Paint & Drug Rep 141:7+ Je 1 '42
Synthetics; recent developments. C. P. Kidder. il Automobile Eng 31:455-8 D '41
Vital materials formerly imported, now produced at home. Sci Am 167:221-2 N '42
See also
Chemurgy
Neoprene
Resinous products
Rubber, Artificial
Textile fibers, Synthetic

SYPHILIS
Cardiovascular syphilis. J. H. Kotte. bibliog Ind Med 11:323-5 Jl '42
Heart disease in Philadelphia cardiac clinics. O. F. Hedley. (Pub. health bul. 268) 38p bibliog(p35-8) U.S. Public health service, Washington; pa 10c Supt. of doc. '41
Industry on guard against syphilis. Safety Eng 83:39 F '42
Intravenous drip and other intensive methods for the treatment of early syphilis. H. Eagle and R. B. Hogan. Science 95:360-2 Ap 3 '42
Modern treatment of syphilis. J. E. Moore and others. 2d ed 674p $7 C. C. Thomas, Springfield, Ill. '41
Serology in syphilis control; principles of sensitivity and specificity, with an appendix for health officers and industrial physicians. R. L. Kahn. 206p $3 Williams & Wilkins '42
Syphilis control program for industry and its integration with the community program. F. G. Gillick and J. Buxell. bibliog Ind Med 10:548-53 D '41

SYRACUSE, New York

Railroads

Lackawanna raises tracks above streets in Syracuse; project includes new station. il map Ry Age 112:896-900, 902 My 9 '42
Lifting the Lackawanna tracks off the streets. il Eng N 127:911 D 25 '41

SYRIA
Middle East. il Fortune 25:172 F '42
Statement concerning Syria and Lebanon issued by the Department of state. For Comm W 5:33 D 20 '41
Trading with Germany and Italy prohibited. For Comm W 6:15 Ja 17 '42

Economic conditions

Syria's business better. il For Comm W 8:9+ S 12 '42

SYRINGALDEHYDE
Studies on lignin and related compounds; aromatic aldehydes from plant materials. R. H. J. Creighton, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3049-52 N '41

SYRINGOYL methyl ketone
Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

T

TNT. See Trinitrotoluene

TABERNACLE Church of Christ, Columbus, Indiana. See Columbus, Indiana—Architecture

TABLE tennis balls. See Ping pong balls

TABLE turning
Our search for the supernatural; Dunninger explains table-turning. A. D. Rathbone, 4th. il Sci Am 167:66 Ag '42

TABLES
Legs-fold-under dual-use table type. il diags Arch Forum 77:111 S '42

TABLETS
Spectrographic analysis of briquetted tablets. H. W. Dietert. il Opt Soc Am J 31:693-6 N '41

TABLETS (medicine)
Cottoning machines at Abbott laboratories; automatic machines for placing cotton in bottles of tablets and capsules. il Mod Packaging 16:76-7 N '42
Flexible production with machines on wheels; St Joseph laboratories, Memphis, Tenn. R. A. Latimer. il Mod Packaging 15:91-3+ My '42

TABLEWARE
Britons may have to use best dishes if tableware becomes scarce, costly. Cer Ind 39:52 Jl '42
Design and production of dinnerware for nursery schools. P. G. Herold and S. Dods. il Am Cer Soc Bul 21:113-14 Je 15 '42
Household porcelain. O. K. Burger. Consumers' Research Bul 9:7-9 Ja '42
Sanitization of tableware. R. C. Strong. bibliog Ind Med 11:10-12 Ja '42
See also
Pottery

Advertising

Advertising challenges American dinnerware. G. Murray. il Ptr Ink 201:58, 60 O 9 '42
Largest promotion in history skyrockets dinnerware sales for Marshall Field. il Cer Ind 39:42-4 O '42

Manufacture

Effect of sulfur and reducing gases on a semivitreous dinnerware glaze and decalcomania decoration. I. J. W. MacHattie and A. E. R. Westman. bibliog Am Cer Soc J 25:416-20 O 1 '42
Influence of fluxes of spodumene and feldspar mixtures on properties of chinaware bodies; semi-vitreous bodies and vitreous hotel chinaware bodies. H. G. Schurecht, J. K. Shapiro and Z. Zabawsky. diags Am Cer Soc J 25:321-6 Jl 1 '42
Nepheline syenite in hotel chinaware bodies. C. J. Koenig. bibliog diags Am Cer Soc J 25:90-3 F 1 '42

Testing

Modulus of elasticity of dinnerware bodies by a sonic-vibration method. S. V. Forgue and G. A. Loomis. bibliog il diags Am Cer Soc Bul 20:425-30 D '41

TABLEWARE, Plastic
Reducing breakage in the navy; melamine tableware. il Mod Plastics 20:80-1+ N '42

TABOO
Taboo, a sociological study. H. Webster. 393p $4 Stanford univ. press '42

TABULATING machines
Mechanical brain aids Canadian census takers; Belisle sorter-tabulator for punched cards. R. N. Bryan. il Comp Air M 47:6793-4 Jl '42
See also
Punched card system

TABULATION
Coding and tabulation of medical and research data for statistical analysis. T. I. Edwards. bibliog Pub Health Rep 57:7-20 Ja 2 '42

TACHOMETERS
Aircraft instruments. C. F. Savage. il Gen Elec R 45:497-9 S '42

TACOMA, Washington

Bridges

Aerodynamic forces on suspension bridges; their effect in producing oscillations; report on failure of Tacoma Narrows bridge. il diags Can Eng R & B 79:24-5+ D '41

TAFT, California
See also
Housing—Taft, California

TAGGART, Grant, 1898-
Takes over as president of N.A.L.U. por Nat Underw (Life ed) Daily ed 46:3 Ag 19 '42

TAGGART, Matthew H. 1878-1942
Sketch. por East Underw 43:14 Jl 31 '42; Nat Underw 46:10-1 Jl 30 '42

TAGS
Identification tags made of plastic. B. Levy. il Elec W 117:1696, 2078 My 16, Je 13 '42
Tag system guides plant maintenance; Spy Run plant of the Indiana service corporation. Elec W 118:1430 O 31 '42

TAGUA nut. See Ivory nut

TAILINGS
Filling mine stopes with mill tailings. C. W. Plumb. diags Min Cong J 28:12-14 Ja '42
New type pavement from mine tailings, added to soil and cement mixtures. il Eng N 128:985-8 Je 18 '42

TAILORING
Coat making at home. M. Smith. il U S Agric Farmers' Bul 1894:1-27; pa 10c Supt. of doc. '41

TALBOT, Arthur Newell, 1857-1942
Sketch. por Eng N 128:528 Ap 9 '42; Ry Age 112:761-2 Ap 11 '42
Sketch. F. E. Richart. Science 95:495-6 My 15 '42

TALBOT, Walter LeMar, 1870-
Honored on 60th anniversary. por Nat Underw (Life ed) 46:4 Ja 23 '42
President Talbot 60 years with company. C. Axman. por East Underw 43:7 Ja 16 '42

TALC
Carriers of rotenone dusts. H. F. Wilson and R. L. Janes. Soap & San Chem 18:103+ Ap '42
Commercial talc; animal and mineralogical studies. R. Z. Schulz and C. R. Williams. bibliog J Ind Hygiene 24:75-9 Ap '42
Constitution of steatite. H. Thurnauer and A. R. Rodriguez. bibliog il Am Cer Soc J 25: 443-50 N 1 '42
Construction of steatite; abstract. H. Thurnauer and A. R. Rodriguez. Cer Ind 38:48 My '42
Converting a whitewares plant to the production of steatite. A. Gunzenhauser. il Cer Ind 38:53-4 My '42
Improved ceramic dielectric materials. M. D. Rigterink. bibliog il R Sci Instr 12:527-34 N '41
Insulator manufacture; use of various materials. C. S. Garland. Elec R (Lond) 130: 431-2 Ap 3 '42
Physical properties of high frequency electrical ceramic insulating parts; requirements for Steatite insulating materials. A. Gunzenhauser. il Cer Ind 39:68, 70, 72 N '42
Porcelain welding ferrules made by regular steatite production methods. il Cer Ind 39: 42-3 Jl '42
Relation between chemical composition and dielectric properties of ceramic materials with low dielectric losses. M. D. Rigterink, R. O. Grisdale and S. O. Morgan. bibliog Am Cer Soc J 25:439-43 N 1 '42
Steatite and special ceramic materials; their development, application, and manufacture. A. Gunzenhauser. il Cer Ind 37:41-2, 44+ D '41
Steatite talc use restricted. Oil Paint & Drug Rep 142:4+ O 19 '42
Talc deposits of Talladega county, Alabama. L. McMurray and E. Bowles. 31p Geological survey of Alabama, University, Ala. '41

See also
Soapstone

TALL oil
Advantages of sulphonated tall oil in manufacturing coated paper. E. Getty. Paper Tr J 114:130, 132 F 19 '42
Production and general characters of so-called liquid rosin (tallol). K. B. Edwards. Chem & Ind 61:233-5 My 23 '42; Abstract. Soap & San Chem 18:55-6 Ag '42
Tall oil a paint material not to be overlooked. G. G. Sward. Paint Oil & Chem R 104:13 O 8 '42

TALLOW
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:34 S 14 '42

TAMPA northern railroad
Bond committee arranges independent action. Comm & Fin Chr 156:263 Jl 20 '42

TANGUY, Yves, 1900-
Twelve artists in U.S. exile. Fortune 24: 108-9 D '41

TANK barges
Barges take strong position in Gulf Coast-oil transportation. N. Williams. il map Oil & Gas J 40:14-16 D 4 '41

TANK cars
All-rail movement is hope of drowning Gulf refiners. Nat Pet N 34:21 F 18 '42
Carriers set new tank car record. Ry Age 112:955, 1052-3, 1089 My 16-30 '42
Complete control of tank cars assumed by Eastman's office. Oil & Gas J 41:43 My 14 '42
Eastern truckers urge halt on short hauls by tank car. Nat Pet N 34:26 Ap 15 '42
Explanation given by OPC for drop in oil rail hauls. Nat Pet N 34:22 O 21 '42
Greater efficiency demanded if rail hauls to East climb. il Nat Pet N 34:27-8 Ap 22 '42
How you can speed tank cars. il Nat Pet N 34:30, 32-4 Ap 1 '42
ICC puts OK on conversion of tank cars for haulage of liquefied petroleum gases. Nat Pet N 34:19 Mr 11 '42
Minimum haul for tank cars hiked from 100 to 200 miles. Nat Pet N 34:21 S 9 '42
N.G.A.A. launches attack on tank-car haul limitation. Oil & Gas J 41:29-30 My 21 '42
ODT assumes control of tank car moves. Ry Age 112:910 My 9 '42
ODT orders speedy return of empty cars; routes cut. Nat Pet N 34:19 O 7 '42
OPC delegates power to relieve fuel-oil crisis. Oil & Gas J 41:33-5 My 14 '42
Oil deliveries by tank cars reach unprecedented peaks. Oil & Gas J 40:62 Ap 30 '42
1000 tank cars daily to haul crude from Southwest for Atlantic Refining. Nat Pet N 34:26 F 18 '42
Outage table for tank cars and domes. P. C. Ziemke. Diesel Power 19:1054-5 D '41
Rails now deliver 60 per cent of eastern oil demand. il Ry Age 113:306-9 Ag 22 '42
Study effect of directive on tank cars. Nat Pet N 34:3-4 Ag 26 '42
Supplementary list of snubber applications. Ry Age 113:752-3 N 7 '42
Tankcar control system effective June 1. Oil Paint & Drug Rep 141:7+ My 18 '42
Tank car gasoline shipments banned by OPC in 20 states. Nat Pet N 34:21 Ag 26 '42
Tankcar permit now within 200 miles. Oil Paint & Drug Rep 142:7+ S 28 '42
Tank car priorities required by WPB. Ry Age 113:536-7 O 3 '42
Tankcar priority regulations established by War board. Oil Paint & Drug Rep 142:7 S 28 '42
Tank car repairs promptly made. il Ry Mech Eng 116:436-7 O '42
Tankcar use now requires permit. Oil Paint & Drug Rep 141:3+ My 11 '42
Tank cars are rollin' these days. Ry Age 112: 586-7 Mr 21 '42
Tank cars need spring snubbers. Ry Age 113: 423 S 12 '42; Same. Ry Mech Eng 116:434 O '42
Tank cars placed under more restrictive priority order. Oil & Gas J 41:23 O 1 '42
Tank cars should get steel wheels. Ry Age 113:747 N 7 '42
30% of remaining tank cars may be taken for East coast; with text of OPC order. Nat Pet N 34:3, 23-4, 26 My 13 '42
War needs first is guide in setting car priorities. Nat Pet N 34:19+ S 30 '42
Would convert tank cars to haul liquefied gas. Ry Age 112:275 Ja 24 '42

See also
Tank trucks

TANK destroyers. See Tanks, Military—Tank destroyers

TANK ships

A. C. Dodge, motor vessel. il Marine Eng 47:140-2 S '42

Converting ore boats into ocean tankers. R. Wagner. diags Welding J 21:400 Je '42

Corsicana, national defense tanker. il Marine Eng 46:122+ N '41

Difficult salvage job performed on Atlantic's oil tanker. E. H. Blum. Oil & Gas J 41:63 My 21 '42; Same. il Marine Eng 47:124-5 Je '42

East Coast plan to pool tankers gets OPC's okay. Nat Pet N 34:21 Mr 11 '42

Enemy action has sunk nine U.S. tankers, mostly old. J. P. O'Donnell. il Oil & Gas J 40:39-41 F 26 '42

Esso Albany, Standard Oil tanker. il Marine Eng 46:134+ N '41

Esso Williamsburg, motor tanker. il diag Marine Eng 46:107+ N '41

Japanese shipping and shipbuilding. il Marine Eng 47:101-2 My '42

M. E. Lombardi, tanker. il Marine Eng 46: 127 N '41

Mannington and Tarentum, Barnes-Duluth tankers. il Marine Eng 47:125 Ag '42

Minneapolis Husky, river tanker. il Marine Eng 46:136 N '41

New maritime tanker scale. Nat Pet N 34:17 F 4 '42

ODT takes control of waterway tankers. Oil Paint & Drug Rep 142:7+ Ag 24 '42

Pan Rhode Island, oil tanker. il diag Marine Eng 46:111+ N '41

Pre-assembling of tankers to speed up construction. Nat Pet N 34:26 F 18 '42

Sinclair H-C, new Sinclair refining company tanker. il plans Marine Eng 47:106-13 Mr '42

Tanker construction at highest level attained since first war. Oil & Gas J 40: 106+ Ja 29 '42

Tanker wrecks lift bridge over Chesapeake and Delaware canal. il Eng N 129:197 Ag 6 '42

Tidewater tanker Flying A. il diag Marine Eng 46:114 N '41

Turbine-electric ships speed oil to mechanized armies; engineers needed. il Power 86:792-4 N '42

Victoria, motor tanker. O. A. Sibley. il Marine Eng 46:76-9 D '41

War has imposed two-fold task on U.S. tanker fleet. J. P. O'Donnell. map Oil & Gas J 41:98+ S 24 '42

TANK trucks

Conversion to truck hauls nears 100% in district 3. Nat Pet N 34:30 Je 3 '42

Developments in the transportation of flammable liquids on the Pacific coast. E. M. Fitz. Am Pet Inst Proc 22(1):61-6 '41; Same. Nat Pet N 33:33-6 N 12 '41

Eastern oil truckers, hard hit by the war, take their case to Price Chief Henderson. Nat Pet N 34:30 Jl 15 '42

Greater efficiency demanded if rail hauls to East climb. il Nat Pet N 34:27-8 Ap 22 '42

How trucks are doing a bigger job. Nat Pet N 34:36 O 14 '42

Improved truck operation adds to jobbers' profits. il Nat Pet N 33:24, 26 D 3 '41

ODT explains 130-hour rule on oil trucks. Nat Pet N 34:32 Je 24 '42

ODT organizes eastern oil truckers to achieve 130-hour week operation. Nat Pet N 34:28+ My 27 '42

Tank truck rates are GMPR exempt. Oil Paint & Drug Rep 142:5+ S 7 '42

Tank truck use over 100 miles hit by Eastman. Nat Pet N 34:19 S 30 '42

Tank trucks exempt from ODT no. 6; provision requiring trucks to carry return loads. Oil Paint & Drug Rep 142:3+ Jl 6 '42

They keep rollin' 24 hours a day in Texas to release tank cars for East Coast hauls. il Nat Pet N 34:32+ Ap 22 '42

Thompson hits Sunday ban halting Texas tank trucks. Nat Pet N 34:19 F 25 '42

Fires and fire protection

Detecting the saboteur static electricity in gasoline fires. R. Beach. il diags Elec Eng 61:501-8 O '42

Safety measures

Safety in operation of tank trucks is vital today in oil's war program. il Nat Pet N 34: 29+ Ap 15; 30, 32 Ap 29; 28+ My 6 '42

TANKS

Construction note for circular tanks; jig for locating small flanged branches. diags Chem Age (Lond) 46:316 Je 27 '42

Practical methods for storing volatile liquids. D. E. Larson. il Am Inst Chem Eng Trans 38:1-22 F '42; Same cond. Nat Pet N 34: R105-7, R110-12 Ap 1 '42; Abstract. Chem & Met Eng 49:153-4 Ap '42; Discussion. Am Inst Chem Eng Trans 38:22-3 F '42

Tank ventilating power costs cut by low velocity systems. W. B. Harris. diags Heat & Ven 39:42-5 Jl '42

See also

Boilers	Tank cars
Gas holders	Tank ships
Gasoline tanks	Tank trucks
Hot water tanks	Tanks, Steel
Oil tanks	Tanks, Wood
Pressure vessels	Water tanks

Cleaning

Flame-priming as a method of removing rust, scale and tubercles from pipe interiors, tank walls, etc. il Water Works & Sewerage 89:444 O '42

Design

Bending moments in the walls of rectangular tanks. D. Young. diags Am Soc C E Proc 67:1683-96 N '41; Discussion. 68:303-4 F '42

Determining wall thickness for pressure vessels. J. Marin. diags Machine Design 14: 59-64 Ap '42

Lining

Carbozite coating for pickling vats and tanks. Blast F & Steel Pl 30:1053-4 S '42

Linings for tanks in the plating shop. E. Coffin. Metal Finishing 40:128+ Mr '42

Special glass for tank linings. il Metal Finishing 40:469 S '42

Manufacture

Welding of pressure vessels, tanks and heat exchangers. H. B. Schlosser. il Welding J 20:865-9 D '41

Measurement

Capacities of horizontal cylindrical tanks and of rectangular tanks; tables. Chem Ind 49:528-30 pt 2 (Buyer's guidebook) O '41

Circulating liquid volume in horizontal cylindrical tanks. W. F. Schaphorst. Water Works & Sewerage 89:139 Mr '42

Contents of horizontal cylinders; multiple use chart for vertical and horizontal tanks, pipe lines, etc. J. Tarrant. Water Works & Sewerage 89:282-3 Je '42

Cylindrical areas in heating and ventilating processes. W. F. Schaphorst. Heat & Ven 39:27 Mr '42

Cylindrical areas in mining processes. chart Can Min J 63:224 Ap '42

Measuring content of tanks. Chem Ind 50:801 Je '42

Timesaving ideas for engineers; new tables simplify calibration calculations for horizontal tanks with various heads. R. Deane. diags Chem & Met Eng 49:95-6 Ap '42

Volumetric calibration of horizontal cylindrical tanks. S. A. Bloch. diag Oil & Gas J 41:44 S 17 '42

TANKS, Concrete

Concrete tanks for boiler feed water. Am Concrete Inst J 14:62-3 S '42

Keep busy with precast concrete tanks for storage of fuel oil. diags Concrete 50:16-17 Je '42

New water-sealed gas holder has concrete water-sealing tank. F. A. Herr. il diags Am Gas J 156:9-11 Je '42

TANKS, Concrete—*Continued*

Precast concrete replaces scarce metals and keeps products plants busy. il diags Concrete 50:14-16 Ag '42

See also

Water tanks, Concrete

TANKS, Copper

Huge copper tank is metallic arc welded. il Steel 109:64 D 1 '41

TANKS, Military

America produces tanks. il Manuf Rec 111: 28-9+ Ag '42

American tank production. il Engineer 173: 102-3 Ja 30 '42

Annual economic review of the British engineering industry. A. M. de Neuman. Engineer 173:22-3 Ja 9 '42

Armoured fighting vehicles in 1941. il Engineer 173:16-18 Ja 2 '42

Churchill tanks. il Engineer 174:282-3 O 2 '42

Evolution of the tank; illustrations. Iron Age 149:119D My 21 '42

First cast steel tank. il Business Week p17 D 6 '41

Horsepower is war power; how American industry is powering our military machine. C. F. Kettering. il Sci Am 167:4-8 Jl '42

Looking over the German medium tank; illustrations. Automotive & Aviation Ind 86: 42-3 F 1 '42

Manning the tank; recruiting crews. Economist 141:529 N 1 '41

Mechanized might; the story of mechanized warfare. P. C. Raborg. 284p $2.50 McGraw-Hill '42

Mechanised warfare. L. Martland. Automobile Eng 32:118-19 Mr '42

Revolutionary changes; Spicer mfg. co. J. Geschelin. il Automotive Ind 85:36-41+ N 15 '41

Russian mechanized units on the eastern front; illustrations. Automotive & Aviation Ind 87:28-9 Jl 1 '42

Story of the tanks. J. T. Gorman. 32p pa 35c W. Collins sons & co, London '42

Supertanks. G. M. Barnes. il Automotive & Aviation Ind 86:26-7+ My 1 '42

Tank tactics; nine primer lessons. il diags Fortune 25:84-5 F '42

Tanks. A. M. Low. 135p $3.75 Ryerson press '42

Tanks advance! G. B. Willson. 128p 5s Cassell and co, London '42

Tanks; illustrations. Automotive & Aviation Ind 86:54 Mr 15 '42

Tanks in the battle of the sands; illustrations. Iron Age 150:98-9 Jl 23 '42

Tanks of other lands; illustrations. Automotive & Aviation Ind 86:32 My 1 '42

U.S. faces stiff competition. il Fortune 24: 74 D '41

War on the civil and military fronts. G. M. Lindsay. 112p $1.50 Macmillan '42

Welds to replace rivets as U.S. tank program expands. il Iron Age 148:91-3 D 4 '41

See also

Armor plate

Amphibian tanks

From food to tanks that swim; Food machinery corp. il Fortune 26:24+ Ag '42

Design

Engineers' war; eight urgent mechanical projects in nine table-cloth drawings. A. Taub. Fortune 24:116-18, 126, 129 D '41

Electric equipment

War production at Rochester div. of General Motors; electrical equipment for tanks and aircraft. il Automotive & Aviation Ind 87:30-3+ S 1 '42

Maintenance and repair

Field maintenance of tanks. J. L. Devers. il S A E J 50:sup15-19 Je '42

Harvester's own; tank maintenance battalion of 859 men recruited entirely from company's rolls. Business Week p90 Jl 25 '42

Trucks and tanks kept rolling; army's new motor repair base; heating and ventilating system. il Heat & Ven 39:19-21 Ag '42

Manufacture

Air cooled Diesels for tanks; plant at Garland, Texas. il Manuf Rec 110:28-9 N '41

Automobile-body stamping plant builds boring mills for tank production. il Mach 49:149-54 O '42

Autos to tanks; motor industry's latest job. Business Week p17-18 N 15 '41

Bigger tanks; bigger uses for industrial gas. il Am Gas Assn Mo 24:58 F '42

Changing over to tanks. E. L. Warner, jr. il Automotive & Aviation Ind 86:17-18, 34-5 Ap 15 '42

From locomotives to tanks; American locomotive co. F. J. Oliver. il Iron Age 149: 64-8 My 7 '42

Giant fixtures speed tank output; illustrations. Steel 111:55 Ag 3 '42

Heat treating cast tank hulls. diags Iron Age 149:39 Ja 8 '42

M-4 all-welded tanks by Fisher; illustrations. Automotive & Aviation Ind 87:46-7 Ag 1 '42

Nitriding tank track pins. il diag Iron Age 148:66 D 18 '41

Production of armoured fighting vehicles. W. E. Woodward. il Engineer 173:251-2 Mr 20 '42; Abstract. Metal Prog 41:700+ My '42

Superseded; riveting machines replaced by new welders. Sci Am 167:156 O '42

Tank track pins are nitrided by mass production methods. R. G. Guthrie. il Steel 110:79 F 2 '42; Same cond. Metal Prog 41: 89 Ja '42

Tank turrets milled on Keller machines. il Iron Age 149:74 Je 11 '42

Tanks ahead of schedule; Chrysler corporation. il diags Am Mach 85:1267-80 D 10 '41

Tanks for the democracies roll from Chrysler's arsenal. C. O. Herb. il Mach 48:107-22 D '41

Wages in military-tank assembly shops, August 1942. H. M. Douty and W. H. Weidowke. Monthly Labor R 55:697-9 O '42

Radio equipment

Radio in the armored force. J. M. Askew. il Radio N 27:34-8+ Ja '42

Tank destroyers

Flying tank busters. J. I. Waddington. il Aviation 41:191+ Je '42

Tank killers. il Fortune 26:116-19+ N '42

TANKS, Ship model. See Ship model tanks

TANKS, Steel

Proper installation prolongs useful life of tanks. diag Oil & Gas J 41:54 O 22 '42

Report of A.P.I. subcommittees of the committee on the standardization of steel tanks for oil storage. Am Pet Inst Proc 22(4):176-90 '41

Storing butadiene at low temperature shown to save steel and decrease costs. diag Nat Pet N 34 pt 2:R361-2 O 28 '42

Treat steel tanks handling salt water or weak acid with enamel coatings. Nat Pet N 34 pt 2:R300 S 30 '42

Failure

Collapse and repair of a storage tank. il diags Engineer 174:192-3 S 4 '42

Manufacture

Making aircraft oxygen cylinders; illustrations. Metals & Alloys 15:981-7 Je '42

Welded liquefied natural gas storage tanks. J. O. Jackson. il diag Welding J 20:833-6 D '41

TANKS, Wood

Non-metallic chemical plant; acid-resisting wood. A. E. Williams. Engineer 174:45-6 Jl 17 '42

Tank built with horizontal staves. il Eng N 129:640 N 5 '42

Wood for chemical equipment; physical properties; representative makers of wood tanks and pipe for chemical applications. Chem & Met Eng 49:104 S '42

TANNERIES

Employees

Potential health hazards of the leather industry. W. J. McConnell, J. W. Fehnel and J. J. Ferry. J Ind Hygiene 24:93-108 My '42
Wiped out dermatitis; J. Greenebaum tanning company. A. B. Schoofs. il Factory Management 100:78-80 Ja '42

Waste

Study of tannery waste disposal; heavy leather beam house effluents. D. F. Maskey. p121-41 bibliog(p141) Univ. of Cincinnati, Dept. of leather research, Foundation tanners' council of Am. Cincinnati '41
Tannery waste disposal; the use of the trickling filter on effluent of a sole leather beam house. R. W. Sarber. p463-74 bibliog (p474) Univ. of Cincinnati, Dept. of leather research, Foundation tanners' council of Am, Cincinnati '41

TANNERS' council of America
Annual meeting, 26th, New York, Oct. 14-16. Oil Paint & Drug Rep 142:7+ O 19 '42

TANNIC acids. See Tannins

TANNING
Accelerated aging of lace leathers. J. R. Kanagy and P. E. Tobias. J Research Nat Bur Stand 29:51-6 Jl '42
American leather chemists association meeting, Columbus, June 1-2. Oil Paint & Drug Rep 141:5+ Je 8 '42
Influence of bound water on the equilibrium in leather-water systems; abstract. N. L. Holmes. Can Chem & Process Ind 26:431+ Jl '42
Leather. K. E. Bell. il map J Chem Educ 19:340-3 Jl '42
Mechanical influence upon tanning. J. Bjorksten and W. J. Champion. Am Chem Soc J 64:868-9 Ap '42
Nature of the reactions between hide proteins and the vegetable tannins; abstract. W. R. Atkin. Can Chem & Process Ind 26:431 Jl '42
Principles involved in the vegetable tanning of heavy leather; abstract. D. J. Lloyd. Can Chem & Process Ind 26:444 Jl '42
South Africa's tanning industry prospering. For Comm W 8:29 Jl 11 '42
Tanners council studies wartime supply and demand. Oil Paint & Drug Rep 142:7+ O 19 '42

See also
Hides and skins
Leather

TANNING materials
Chemical constitution and the tanning effect; simple esters and polyesters of gallic acid. A. Russell and W. G. Tebbens, jr. Am Chem Soc J 64:2274-6 O '42
Exports of tanning extract from Peru. Science 95:sup10 My 29 '42
Possible new sources of nutgalls and valonia. C. D. Mell. Textile Col 64:334-6 Jl '42
Quebracho and urunday from Argentina and tara from Peru. For Comm W 6:21-2 F 14 '42
Tara, new source of wealth for Peru. For Comm W 7:28 My 16 '42

See also
Divi-divi
Sulfamic acid

TANNINS
Constitution of natural tannins; coloring matters derived from anthracene-9-aldehyde. A. Russell and W. B. Happoldt, jr. Am Chem Soc J 64:1101-3 My '42
Coumaran derivatives; synthesis of 3,4,6,3′,4′-pentahydroxy-2-benzylcoumaran. R. L. Shriner and F. Grosser. bibliog Am Chem Soc J 64:382-4 F '42
Ecuador's tannin supply. For Comm W 7:21 My 16 '42
Iraq's gall-nut industry. For Comm W 9:26 O 10 '42
Nutgalls, USP tannic acid under allocation. Oil Paint & Drug Rep 142:3+ Ag 17 '42
Scale removed from pipe by simple treatment; use of sodium hexametaphosphate and alkaline quebracho tannin; line carrying salt water for disposal. H. F. Simons. diag Oil & Gas J 40:29-30 Ap 16 '42

Analysis

Determination of tannin substances in boiler waters. A. A. Berk and W. C. Schroeder. bibliog Ind & Eng Chem Anal ed 14:456-9 Je 15 '42

TANTALUM
Attenuated superconductors; for measuring infra-red radiation. D. H. Andrews and others. bibliog il diags R Sci Instr 13:281-92 Jl '42
Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42
Temperature scale, thermionics, and thermatomics of tantalum. M. D. Fiske. bibliog diag Phys R 61:513-19 Ap 1 '42
Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

TANTALUM bromides
Anhydrous tantalum tribromide. R. C. Young and T. J. Hastings, jr. Am Chem Soc J 64:1740 Jl '42

TANTALUM oxides
Glassforming nature of oxides with special reference to tantala, titania, and beryllia. K. Sun and A. Silverman. bibliog Am Cer Soc J 25:97-100 F 15 '42

TAPE. See Adhesive tape

TAPE, insulating. See Insulating tape

TAPESTRY
Hunters and hunting scenes on figured textiles. H. Wescher. Textile Col 64:125-8 Mr '42

TAPEWORMS
First case of human infection with mesocestoides. A. C. Chandler. Science 96:112 Jl 31 '42

TAPIOCA
Tapioca flour Oil Paint & Drug Rep 142:41 Jl 20 '42

TAPIOCA, Substitutes for
Can waxy corn replace tapioca? For Comm W 7:19 My 16 '42
Waxy starch of maize and other cereals; a possible competitor for tapioca. R. M. Hixon and G. F. Sprague. bibliog il Ind & Eng Chem 34:959-62 Ag '42

TAPPING
Clamping device for use in tapping cast-iron caps. J. W. Gerdel. Mach 48:134 D '41
Depth of tapped blind holes. A. H. Korn. diags Product Eng 13:465-6 Ag '42
Fine threads in aluminum and brass. C. T. Stoeffler. diag Am Mach 86:1092 O 1 '42
Fixture helps tap vulcanized fiber washers. C. H. Willey. diags Am Mach 86:446 My 14 '42
Metered lubrication improves automatic tapping. il Am Mach 85:1311 D 24 '41

TAPPING machines
Adaptable air clamps for drilling and tapping machines. il Comp Air M 47:6848 S '42
Bakewell precision radial tapping machine. il Mach 48:164 My '42
Bakewell radial tapping machine. il Engineer 174:328 O 16 '42
Pneumatic holding fixtures speed tapping operations. il Comp Air M 47:6717 Ap '42
R. G. Haskins develops air-controlled holding fixtures for clamping work in air-controlled tapping machines. il Am Mach 86:540+ My 28 '42

TAPS
Adapter for collapsible tap. J. R. Jones. diags Am Mach 86:444 My 14 '42
Care and use of taps. Oil & Gas J 41:44 O 15 '42
Distribution of ground thread taps. Engineer 173:57 Ja 16 '42
Historical notes on the tap and die industry. J. E. Winter. Mach 48:133-5 Ja '42

TAPS—*Continued*

Recommended tap drill sizes; reference book sheets. Am Mach 86:849, 851, 913, 915, 971 Ag 6-S 3 '42

Tap reconditioner gives new life to old taps. il Sci Am 166:252-3 My '42

TAR

Pine tar. Can Chem & Process Ind 25:586 N '41

Presidential address before North of England gas managers' association. S. W. A. Wikner. Gas J (Lond) 238:251 My 13 '42

Resin acids from pine tar. J. P. Bain. Am Chem Soc J 64:871 Ap '42

See also

Coal tar products
Road tar
Roads, Tarred

TAR distillation

Association of tar distillers; points from the annual report. Chem Age (Lond) 46:246 My 9 '42; Gas J (Lond) 238:209+ My 6 '42

Automatic method for cleaning tar distillation flasks. W. Pechenick. diags Ind & Eng Chem Anal ed 14:344 Ap 15 '42

Dehydrating bunker C tar emulsion and coke-oven tar emulsion. C. J. Leuders. Gas Age 89:7 Je 18 '42

Tar cracking to increase gas and benzole yield; application to continuous vertical retorts. Gas J (Lond) 238:22 Ap 1 '42

TAR oils

Industrial heating with creosote pitch. C. H. S. Tupholme. Chem & Eng N 20:620 My 10 '42

TARA spinosa

Exports of tanning extract from Peru. Science 95:sup10 My 29 '42

Tara, new source of wealth for Peru. For Comm W 7:28 My 16 '42

TARDINESS (employees)

Penalties for tardiness. Management R 31:146-7 Ap '42

TARIFF

Adoption of American valuation as tariff basis fair to all. S. A. Salvage. Rayon 23:593-4 O '42

From Washington ahead of the news; proposal to make one economic unit out of all of the American continent. Comm & Fin Chr 155:561+ F 5 '42

President asks removal of trade barriers which impede war production programs. Comm & Fin Chr 156:1721 N 12 '42

Regulation of imports by executive action in countries with independent tariff jurisdiction with particular reference to developments between the two world wars under the provisions of section 338, title III, part II, Tariff act of 1930. 106p U.S. Tariff commission, Washington; pa 15c Supt. of doc. '41

World-planning; effort to speed flow of materials by lowering tariffs. Business Week p54 F 7 '42

See also

Balance of payments
Commerce
Commercial policy
Commercial treaties and agreements
Free harbors
Free trade and protection

Canada

Duties due to go; Canada sees faster flow of war goods between Dominion and United States. Business Week p51-2 Je 27 '42

Review of Canadian wartime trade control measures. M. H. Fricker. For Comm W 7:6-7+ Ap 18 '42

Cuba

Cuban-United States second supplementary trade agreement. For Comm W 6:10-11 Ja 3 '42

Cuban-United States trade pact. Comm & Fin Chr 155:25 Ja 1 '42

Cuban-United States trade pact signed. Oil Paint & Drug Rep 140:4+ D 29 '41

Great Britain

Ten years of protection; Import duties act. Economist 142:276-8 F 28 '42

Peru

Trade agreement between Peru and the United States. For Comm W 7:15 My 23 '42

United States

Cuban-United States second supplementary trade agreement. For Comm W 6:10-11 Ja 3 '42

Cuban-United States trade pact. Comm & Fin Chr 155:25 Ja 1 '42

Cuban-United States trade pact signed. Oil Paint & Drug Rep 140:4+ D 29 '41

Duties due to go; Canada sees faster flow of war goods between Dominion and United States. Business Week p51-2 Je 27 '42

Guns duty free; U.S. and Dominion may succeed in removing tariffs on interchange of munitions. Business Week p42+ Ja 17 '42

History of American customs jurisprudence. W. H. Futrell. 314p $10 William H. Futrell, 201 Varick st, New York '41

Mexican-U.S. trade pact hearing May 18; rates of duty of import tax now applicable to products of Mexico. Oil Paint & Drug Rep 141:5+ Ap 13 '42

Peru-U.S. trade pact hearing. Oil Paint & Drug Rep 141:5+ Ja 5 '42

Tariff-remover: plan empowering President to lift duties that interfere with war procurement. Business Week p14 Ap 4 '42

Tariff under Roosevelt and Taft. R. C. Baker. 218p bibliog(p201-5) $2 Richard C. Baker, Scoharie, N.Y. '41

Trade agreement between Peru and the United States. For Comm W 7:15 My 23 '42

United States imports from Japan and their relation to the defense program and to the economy of the country. 239p U.S. Tariff commission, Washington '41

See also

Commercial treaties and agreements

Metals

Mexican tariff pact permanence opposed. Oil Paint & Drug Rep 141:5+ My 25 '42

Minerals

Trade agreement negotiations with Mexico and Bolivia; Mining congress presents industry's position. J. D. Conover. il Min Cong J 28:32-3+ Je '42

Oils and fats

Fats, oils, and oil-bearing materials: United States tariff duties and excise taxes in effect December 15, 1941. Chem Ind 50:770 Je '42

TARNISHING of metals

Continuous check against tarnish when annealing shell cases; Continental oxygen detector units. C. P. Masure. Metal Prog 42:694 O '42

Theory of oxidation and tarnishing of metals; growth laws under more general conditions. O. H. Hamilton and H. A. Miley. bibliog Electrochem Soc Trans 81 (preprint 31): 445-53 Ap '42

Theory of oxidation and tarnishing of metals; the linear, parabolic and logarithmic laws. H. A. Miley. bibliog Electrochem Soc Trans 81 (preprint 14):173-86 Ap '42

TARPAULINS

Tarpaulin as a fire hazard. J. Bateman, jr. Weekly Underw 146:543 Mr 7 '42

TARRED roads. See Roads, Tarred

TARTAGLIA, Niccolò, c. 1500-1557

Scientist at peace and at war four hundred years ago; Epistola to his Della nuova scienza written at Venice, 1537. M. F. Ashley Montagu. Science 95:71 Ja 16 '42

TARTARIC acid

Piezometer for transient pressures. A. W. Lawson and P. H. Miller, jr. R Sci Instr 13:297-8 Jl '42

TARTARIC acid—*Continued*

Synthetic tartaric acid. Can Chem & Process Ind 25:675 D '41

Tartaric acid got from corn. Oil Paint & Drug Rep 141:7 Ja 19 '42

TARTRAZINE

Sorption of soluble dyes by gelatin. S. E. Sheppard, R. C. Houck and C. Dittmar. bibliog J Phys Chem 46:158-76 Ja '42

TASTE

See also

Water purification—Taste and odor removal

TAUB, Alex

Portrait. Business Week p22 D 6 '41

TAU-SAGYZ

Tau-sagyz, or mountain gum plant discovered in Russia; Kok-sagyz and other Russian plants. Iron Age 149:74+ Ap 2 '42

TAUTOMERISM

Associating effect of the hydrogen atom; the N-H-N bond; the constitution of the benztriazoles. T. G. Heafield and L. Hunter. Chem Soc J p420-2 Jl '42

Associating effect of the hydrogen atom; the N-H-N bond; virtual tautomerism of the formazyl compounds. L. Hunter and C. B. Roberts. Chem Soc J p820-3 D '41

Tautomeric character of the imidazole ring. H. Green and A. R. Day. bibliog Am Chem Soc J 64:1167-73 My '42

See also

Isomerism

TAX administration

Michigan tax agencies combined into single unit. Comm & Fin Chr 155:320 Ja 22 '42

TAX collecting

Newspaper ads help tax collections. Comm & Fin Chr 154:1320 D 4 '41

Treasury preparing for unprecedented tax collections under new Revenue act. Comm & Fin Chr 156:1550 O 29 '42

TAX delinquency

Tax reclamation; Michigan rehabilitation plan for delinquent real estate showing results. Business Week p53-4 S 12 '42

Trend of city tax delinquency, 1930-1941. Comm & Fin Chr 155:1696 Ap 30 '42

TAX evasion and avoidance

Cleaning house for 1942 taxes; practical steps business can take to minimize impact of new levies. C. J. Siegel. Barron's 22:18+ My 11 '42

Converting close corporations into partnerships or individual proprietorships. W. H. Whitney. J Account 72:514-23 D '41

Immediate savings in personal and company taxes. rev ed 27p pa $1 Prentice-Hall '41

Morgenthau charges attempt to escape war time taxation by some corporations. Comm & Fin Chr 155:2126 Je 4 '42

Planning for tax savings in 1942. B. M. Becker. Ins Field (Fire ed) 71:22-3 Ja 22; 18-19 Ja 29 '42; Same. Ins Field (Life ed) 71:16-17 Ja 23; 16+ Ja 30 '42

Profitable points to watch for tax savings. Dun's R 49:8-9 O '41; Same. Management R 31:28-9 Ja '42

Tax avoidance is boomerang. D. B. Maduro. Nat Underw (Life ed) 45:1+ N 21 '41

Tax avoidance selling censured. E. N. Griswold. Nat Underw (Life ed) 46:1+ O 9 '42

U.S. reported out to plug single premium tax leak. Nat Underw (Life ed) 46:3 F 20 '42

Wartime guides for your business; when a partnership may be preferable to corporate form of organization. W. H. Hillyer. Barron's 22:3-4 O 26 '42

TAX exemption. See Taxation, Exemption from

TAX liens

Federal tax liens precede state's. Comm & Fin Chr 154:1208 N 27 '41

Holds unpaid social security tax entitled to priority. Comm & Fin Chr 155:1140 Mr 19 '43

Priority of tax claims. (Research report, 14) 22p pa 75c Federation of tax administrators, 1313 E. 60th st, Chicago '42

Tax interpretation vital to companies; Revenue Commissioner clears question over liens and claims. G. T. Helvering. Nat Underw 46:5+ Ja 1 '42; Same. Nat Underw (Life ed) 46:3-4 Ja 2 '42

TAX savings notes. See Bonds, Government—United States—Tax savings notes

TAXATION

Accounting, auditing, and taxes, 1941. 216p pa $1 Am. inst. of accountants, New York '41

Tax systems; a yearbook of legislative and statistical information including all the states of the United States and certain Canadian and foreign data. 9th ed 382p $8.75 Commerce clearing house '42

See also

Bank deposits—Taxation
Chain stores—Taxation
Cooperative associations—Taxation
Corporations—Taxation
Debts, Public
Excess profits tax
Excise tax
Gasoline—Taxation
Gift tax
Government expenditures
Income tax
Inheritance tax
Insurance, Life—Taxation
Insurance companies—Taxation
Mine taxation
Motor vehicles—Taxation
Municipal finance
Municipal taxation
Payrolls—Taxation
Poll tax
Public utilities—Taxation
Sales tax
Spending tax
Stamp tax
Stock transfer tax
Tariff
Taxpayers' associations
Use tax

Accounting

Calculation of bonuses based on earnings after deduction of state and federal taxes. A. L. Norris. J Account 73:164-7 F '42

Last call for last-in; how to measure risk of continuing old inventory systems. A. Cotter. Barron's 21:7 D 15 '41

Trends in accepted accounting and their relation to cost accounting. M. E. Peloubet. N A C A Bul 23:835-47 F 15 '42

See also

Income tax—Accounting

Payment financing

Borrowing to pay taxes; economic aspect. Bankers M 144:282+ Ap '42

See also

Income tax—Payment financing

Regulatory taxation

Where tax policy fails; limits of fiscal policy for maximum war production. K. H. Niebyl. Trusts & Estates 74:235-8 Mr '42; Discussion (Where tax policy is needed). H. S. Bloch. 74:357-9 Ap '42

Social aspects

American taxation; its history as a social force in democracy. S. Ratner. 561p bibliog(p515-27) $4.50 Norton '42

California

Postwar public finance in southern California. M. M. Stockwell. Ann Am Acad 222:143-7 Jl '42

Canada

Budget dented. Business Week p62+ Jl 25 '42

Canada combats inflation through new tax rates. For Comm W 9:10-11, 43 O 10 '42

Canada's new wealth-conscripting budget leaves taxpayers nothing but patriotism. Am Mach 86:742f Jl 9 '42

Canada's tax blitz; new Ilsley budget, including forced savings plan. Business Week p39-40 Jl 4 '42

Changes in British, Canadian and Australian taxes; summaries of major changes to April 1, 1941. 13p Treasury dept., Washington; pa 5c Supt. of doc. '41

Forced savings in Canada's 1942-43 budget. For Comm W 8:13+ Jl 11 '42

TAXATION—*Continued*

Cuba

Cuban tax schedule for amortization of Export-Import loan. Comm & Fin Chr 154:1660 D 25 '41

District of Columbia

Brief by E. Hanson, counsel before the committee on the District of Columbia, United States Senate in re S. 2673, a bill to define the real property exempt from taxation in the District of Columbia. Chem & Eng N 20:1094-8 S 10 '42

District of Columbia taxation of educational institutions; hearing on Senate bill 2673; statement of C. L. Parsons. Chem & Eng N 20:1091-2 S 10 '42

France

Ores, crude metals, scrap metals, precious stones; special taxes for benefit of trade organization committees. For Comm W 9:18-19 O 17 '42

Great Britain

Agricultural taxation. Economist 142:602 My 2 '42

American & British taxation; comparison. Economist 141:596 N 15 '41

British and American taxation. G. O. May. J Account 74:38-40 Jl '42

British and American taxation as proportion of national income, 1938-39 to 1941-42; table. Economist 142:106 Ja 24 '42

Burden of taxation. Economist 143:504-5 O 24 '42

Changes in British, Canadian and Australian taxes; summaries of major changes to April 1, 1941. 13p Treasury dept., Washington; pa 5c Supt. of doc. '41

Mechanical handling and the adjustment of cost in production, from a legal aspect. F. E. Sugden. Mech Handling 29:118-19 Je '42

See also

Budget—Great Britain

Excess profits tax—Great Britain

Income tax—Great Britain

Tariff—Great Britain

Kentucky

Organization for Kentucky local tax assessments. J. W. Martin and G. D. Morrow. (Bur. of business research bul. v2 no4) 85p pa 50c Univ. of Kentucky, Lexington '41

Michigan

Michigan tax agencies combined into single unit. Comm & Fin Chr 155:320 Ja 22 '42

Tax reclamation; Michigan rehabilitation plan for delinquent real estate showing results. Business Week p53-4 S 12 '42

Minnesota

War-time tax program for Minnesota. 18p Minnesota taxpayers assn, 2694 University av, St Paul '42

Nebraska

Appraisal of the Nebraska tax system. E. B. Schmidt. 200p $2.50 Univ. of Nebraska, Lincoln '41

New Hampshire

Tax collecting in New Hampshire. W. F. Howes. 485p $4; hf lea $5 Brown & Saltmarsh, 61 N. Main st, Concord, N. H. '41

New York (state)

Tax law of the state of New York with article 4, secs. 130-139 of State departments law as of July, 1942. 347p pa $2 Commerce clearing house '42

See also

Income tax—New York (state)

Oklahoma

Oklahoma tax laws, 1941, annotated, new ed 591p $7.50 Mid-west ptg. co, box 800, Tulsa, Okla. '42

Pennsylvania

Corporate taxation and procedure in Pennsylvania. L. P. Stradley and others. v2 660p $10 Commerce clearing house '42

Philadelphia

Wage-tax gusher; Philadelphia government embarrassed by yield from much-litigated levy. Business Week p32 Mr 21 '42

Wage tax wins. Business Week p58 O 31 '42

United States

American & British taxation; comparison. Economist 141:596 N 15 '41

American public finance. W. J. Shultz. 3d ed 874p bibliog(p765-89) $6; to schools $4.50 Prentice-Hall '42

American taxation; its history as a social force in democracy. S. Ratner. 561p bibliog(p515-27) $4.50 Norton '42

Amortization jam. Business Week p18 D 27 '41

At least $22 billion needed in new taxes to prevent inflation, Research bureau declares; fiscal planning for total war. Comm & Fin Chr 156:987 S 17 '42

British and American taxation. G. O. May. J Account 74:38-40 Jl '42

British and American taxation as proportion of national income, 1938-39 to 1941-42; table. Economist 142:106 Ja 24 '42

Coming revenue act. Trusts & Estates 74:375-7 Ap '42

Congress completes record tax bill, new revenue put at $85 billion. Comm & Fin Chr 156:1441+ O 22 '42

Contemplated revenue act; some desirable proposals. F. N. Williams. Trusts & Estates 73:562-6 N '41

Corporations and the 1941 taxes. J. K. Lasser. il Dun's R 49:5-14 O '41

Danger of inflation continues; prices, taxes and inflation. R. E. Paul. Comm & Fin Chr 156:1355 O 15 '42

Definite tax program needed. H. H. Heimann. Bankers M 145:363-4 O '42

End of special tax privileges urged by Morgenthau before Senate finance committee. Comm & Fin Chr 156:369 Jl 30 '42

Excess profits tax passed with 80% ceiling. Comm & Fin Chr 156:809+ S 3 '42

Fallacies in Treasury tax plan. G. Stolper. Trusts & Estates 74:252 Mr '42

Federal tax course, 1942. G. T. Altman. rev & enl ed loose leaf $10 Commerce clearing house '41

Fiscal problem; what kinds of taxes? Nat City Bank p17-20 F '42

Four point tax plan; how to finance war. C. R. Keyser. Credit & Fin Management 44:22-6 Jl '42

Further anti-inflationary measures needed to immobilize purchasing power. R. Blough. Comm & Fin Chr 156:1553 O 29 '42

Gone with the war; how our tax legislation forces post-war unemployment, or statism. B. B. Smith. Trusts & Estates 73:481-4 N '41

Hearings on tax proposals concluded by House Ways and means committee; administration restrictions on limit foreseen. Comm & Fin Chr 155:1630 Ap 23 '42

Highlights of Treasury tax program. Trusts & Estates 74:280 Mr '42

House committee adopts tentative tax change; confers with Morgenthau on action. Comm & Fin Chr 155:2201 Je 11 '42

House committee completes tax program. Comm & Fin Chr 156:17+ Jl 2 '42

House committee considers excise taxes; Treasury would limit incomes. Comm & Fin Chr 155:2306 Je 18 '42

House committee hears proposals for sales tax and other revenue raisers. Comm & Fin Chr 155:1247 Mr 26 '42

House group works to relieve corporate tax; payroll deductions for individual taxes. Comm & Fin Chr 155:2393+ Je 25 '42

House passes $6 billion tax bill; votes 90% excess profits tax, payroll tax deductions. Comm & Fin Chr 156:281+ Jl 23 '42

TAXATION—United States—*Continued*

How to deflate war inflation; why the Treasury tax program can't do it. L. Stern. Mag of Wall St 69:686-8+ Ap 4 '42

Inclusion of sales tax in revenue measure by House committee regarded as probable. Comm & Fin Chr 155:1445 Ap 9 '42

Increase corporate, individual taxes; favors withholding tax. M. S. Eccles. Comm & Fin Chr 155:771 F 19 '42; Same. Fed Res Bul 28:211-13 Mr '42

Individuals socked; Senate committee tax bill. Business Week p14-15 S 19 '42

Industry paying more than half of earnings in income, profits taxes. Steel 110:50-1 Ja 26 '42

Killing the goose that lays the golden eggs. L. Stern. Mag of Wall St 70:528-30+ S 5 '42

Lost $40 billion; more flowing into high salaries, but most of pressure on prices is coming from those with $5,000 and less. Fortune 26:74-9 Ag '42

Lower exemptions and withholding tax advocated to finance defense. M. S. Eccles. Comm & Fin Chr 155:332-3 Ja 22 '42; Excerpts. Trusts & Estates 74:136-7 F '42

Morgenthau spending tax reveals trend of new deal planning for future. E. Blair. Barron's 22:4 S 7 '42

Need for more taxes. Nat City Bank p125-6 N '41; Same abr. Trusts & Estates 73:491-2 N '41

New federal tax bill is favorably regarded by agents. Nat Underw (Life ed) 46:1+ O 30 '42

New federal tax bill; review of life insurance features. W. H. Fissell. Spectator (Life ed) 149:8-11, 30-3 S '42

New tax bill designed to yield $6,144,000,000 in additional revenue reported by House group. Comm & Fin Chr 156:169+ Jl 16 '42

New tax law. G. B. Bryant, jr. Barron's 22: 9-10 O 26 '42

New tax program presented to House by Morgenthau; to yield seven billions. Comm & Fin Chr 155:952 Mr 5 '42

Pay-as-you-go taxes; Ruml plan, withholding taxes, and Treasury's proposal to levy on spending. Business Week p15-16 S 5 '42

President asks House group for early anti-inflation taxes; action deferred. Comm & Fin Chr 154:1136 N 20 '41

Price ceiling and taxation. P. Haensel. Trusts & Estates 74:560-1 Je '42

Pro, con federal sales tax; Morgenthau opposes as severe burden to lowest income group. Comm & Fin Chr 155:1150-1 Mr 19 '42

Progress of the tax bill. Nat City Bank p65-7 Je '42

Progress of the tax bill. Nat City Bank p100-2 S '42

Real estate group opposes federal sales tax; urges co-ordination of entire tax structure. Comm & Fin Chr 155:1446 Ap 9 '42

Recommendations for new tax legislation; statement of Walter A. M. Cooper, chairman of the committee on federal taxation of the American institute of accountants, before the Senate finance committee. J Account 74:202-9 S '42

Record tax yield tops 16 billions. Comm & Fin Chr 154:1320 D 4 '41

Report of the federal taxation committee, of I.B.A. Comm & Fin Chr 154:1441-2 D 11 '41

Revenue act of 1941 with explanation and federal tax charts. 96p pa $1; library ed. 80c Prentice-Hall '41

Revenue act of 1942. Nat City Bank p129-31 N '42

Revenue administration, 1941; proceedings, 9th annual conference of the National association of tax administrators, Lexington, Ky., June 9-12, 1941. 66p $1.50 Federation of tax administrators, 1313 E. 60th st, Chicago '42

Review of three T.N.E.C. monographs: "Who pays the taxes?" "Taxation of corporate enterprise" and "Taxation, recovery, and defense." C. Shoup. R Econ Statis 24:36-43 F '42

Sales tax in revenue measure now held uncertain; induced savings urged. Comm & Fin Chr 155:1541 Ap 16 '42

Secretary Morgenthau urges end of tax loopholes including tax-exempts. Comm & Fin Chr 155:573 F 5 '42

Senate begins debate on record tax bill. Comm & Fin Chr 156:1249+ O 8 '42

Senate committee completes tax bill; adopt victory tax, cut corporation rates. Comm & Fin Chr 156:969+ S 17 '42

Senate committee holds tax bill hearings. Comm & Fin Chr 156:384 Jl 30 '42

Senate committee rejects Treasury proposal for spending tax; favors 5% victory tax. Comm & Fin Chr 156:890 S 10 '42

Senator George announces move to repeal law on war contract negotiation; limit war profits; Senate tax hearings. Comm & Fin Chr 156:537+ Ag 13 '42

Softer tax bill? Business Week p28+ Ag 22 '42

Supreme court on federal taxation, 1940-1941. R. Magill. bibliog J Account 72:487-99 D '41

Tax bill. Nat City Bank p 114-17 O '42

Tax bill at last; House committee gives way to pressure for more revenue. Business Week p17-18 Jl 18 '42

Tax bill passed by House puts big load on business. Oil Paint & Drug Rep 142:3+ Jl 27 '42

Tax bill signed by President. Oil Paint & Drug Rep 142:3+ O 26 '42

Tax deal looms. Business Week p21 F 7 '42

Tax-krieg on defense and private industry. J. W. Meader. Trusts & Estates 73:651-2, 654-5 D '41

Tax outlook. Bankers M 143:543-4 D '41

Tax panacea; flexible schedule. Business Week p21 F 14 '42

Tax realism. R. M. Haig. Trusts & Estates 74:469-70 My '42

Tax tug of war. Business Week p20+ Je 20 '42

Taxation of consumers' cooperatives, 1940. F. E. Parker and T. Zorach. Monthly Labor R 54:968-88 Ap '42

Taxes, a critical job for Congress. Business Week p88 F 14 '42

Taxes best defense against inflation. H. H. Heimann. Bankers M 144:272 Mr '42

Taxes big and growing, 1941. Oil Paint & Drug Rep 141:38 Ja 12 '42

Taxes drive it home; Treasury's proposals sharpen wartime tax trend. Business Week p13-14 Mr 7 '42

Taxes in comparison with other countries. E. M. Friedman. Spectator (Property ed) 8: 30-1 Jl 23 '42

Taxes: 26 billions on the line. Business Week p15-16 O 24 '42

T.N.E.C. monograph no. 3, who pays the taxes. J. S. Seidman. J Account 74:56-8 Jl '42

T.N.E.C. monograph no. 20, taxation, recovery and defense. L. Mattersdorf. J Account 74:61-4 Jl '42

Tentative taxes. Business Week p14 My 30 '42

That new tax bill. Business Week p14 Mr 14 '42

That victory tax; Senate committee's plan. Business Week p118-19+ S 12 '42

Tougher taxes. Business Week p16-17 D 20 '41

Treasury estimate of new tax revenues. Comm & Fin Chr 156:27 Jl 2 '42

Treasury preparing for unprecedented tax collections under new Revenue act. Comm & Fin Chr 156:1550 O 29 '42

Treasury tax plan. H. Morgenthau. Trusts & Estates 75:215 S '42

Treasury's tax proposals. Nat City Bank p40-3 Ap '42

$2,500,000,000 in tax revenues transferred between government levels in 1941. Comm & Fin Chr 155:2112 Je 4 '42

U.S. Chamber of commerce proposes retail sales tax, 5% gross income levy. Comm & Fin Chr 155:1629 Ap 23 '42

U.S. Chamber of commerce proposes 10% sales tax and 5% withholding tax. Comm & Fin Chr 156:631 Ag 20 '42

TAXATION—United States—*Continued*

U.S. Commerce chamber proposes tax program to yield more revenue, yet not cripple business. Comm & Fin Chr 156:542 Ag 13 '42

United States master tax guide, 1942. 288p pa $1 Commerce clearing house '42

Urges Treasury hold taxes over 80% of excess profits tax as post-war recovery reserve; Senate committee's hearing on tax bill. C. Davidson. Comm & Fin Chr 156:461 Ag 6 '42

War tax legislation, proposed Revenue act of 1942; Chamber committee on federal finance; testimony before Committee on ways and means, April 14, 1942. 43p Finance dept, Chamber of commerce of the U.S., Washington

War taxation; abstracts. M. Shields. Bankers M 144:510-11 Je '42; Comm & Fin Chr 155:1868 My 14 '42

Where tax policy fails; limits of fiscal policy for maximum war production. K. H. Niebyl. Trusts & Estates 74:235-8 Mr '42; Discussion (Where tax policy is needed). H. S. Bloch. 74:357-9 Ap '42

Your new taxes. L. J. Freeman. Barron's 22:3+ N 2; 3-4 N 9; 7 N 16 '42 (to be cont)

See also

Corporations—Taxation
Excess profits tax
Excise tax
Export trade—Taxation
Gift tax
Income tax—United States
Inheritance tax
Mine taxation
Payrolls—Taxation
Sales tax
Spending tax
Tariff—United States
Taxation, State

Utah

Block that tax! chains fight Utah levy. Business Week p42+ F 28 '42

TAXATION, Double

Avoidance of double taxation: new convention with Canada. J. H. Barkmeier. For Comm W 8:10-11+ Ag 22 '42

Canadian-U.S. tax convention. Comm & Fin Chr 156:112 Jl 9 '42

Double inheritance taxation by states; recent decision permits more than one state to levy death taxes against corporate stock. J. B. Lowe and J. D. Wright. Barron's 22:5 Je 29 '42

Multiple death taxation of intangibles, what now? R. C. Brown. Trusts & Estates 75:269-74 S '42

Multiple taxation by states; and a caution. Trusts & Estates 74:592 Je '42

Ratify U.S.-Canadian income tax convention. Comm & Fin Chr 155:2212 Je 11 '42

U.S. and Canada sign income tax agreement. Comm & Fin Chr 155:1168 Mr 19 '42

TAXATION, Exemption from

Assails proposed federal tax on income from municipal securities. A. J. Tobin. Comm & Fin Chr 154:1450 D 11 '41

Bid-asked disclosure rule declared detrimental to municipal securities; tax immunity. Comm & Fin Chr 156:1526+ O 29 '42

Bond market anomaly; taxable Treasury issues yield more to individuals than tax-exempts. K. Brandon. Barron's 22:19 Ap 6 '42

Brief by E. Hanson, counsel before the committee on the District of Columbia, United States Senate in re S. 2673, a bill to define the real property exempt from taxation in the District of Columbia. Chem & Eng N 20:1094-8 S 10 '42

Case for taxation of publicly owned utilities. K. C. Christensen. Pub Util 30:540-6 O 22 '42

District of Columbia taxation of educational institutions; hearing on Senate bill 2673; statement of C. L. Parsons. Chem & Eng N 20:1091-2 S 10 '42

End of special tax privileges urged by Morgenthau before Senate finance committee. Comm & Fin Chr 156:369+ Jl 30 '42

Federal taxation of municipal opposed. F. LaGuardia. Comm & Fin Chr 156:465 Ag 6 '42

Impact of the war upon public utility finance. F. J. McDiarmid. Pub Util 29:671-3 My 21 '42

Lower income groups buying tax exempts. J. D. Kelly. Barron's 21:18 N 17 '41

Municipal bond tax proposal seen threat to state autonomy. J. A. White. Comm & Fin Chr 155:1129+ Mr 19 '42

Municipal news and notes; opposition to Morgenthau's proposal to tax state and municipal securities. Comm & Fin Chr 155:936 Mr 5 '42

Municipal news; drive to force action by Congress to eliminate tax immunity on municipal and state securities. Comm & Fin Chr 155:104 Ja 8 '42

Municipal news; reaction to President Roosevelt's recommendations that state and municipal bond tax exemption be ended. Comm & Fin Chr 155:1696 Ap 30 '42

Municipal news; recommendations of Secretary Morgenthau to tax future as well as outstanding bonds of states and their political subdivisions. J. Borg. Comm & Fin Chr 155:1136 Mr 19 '42

Municipal news; Senate rejection of recommendation to tax income from state and municipal bonds. Comm & Fin Chr 156:1344 O 15 '42

Oppose Treasury plan to tax tax-exempts; New York state chamber of commerce. Comm & Fin Chr 155:655 F 12 '42

Outlook for tax exemption for municipals. H. G. Guthmann and G. Schnur. Barron's 22:18 Ag 3 '42

Reporter on governments. Comm & Fin Chr 155:328 Ja 22 '42

Secretary Morgenthau urges end of tax loopholes including tax-exempts; abstracts. Comm & Fin Chr 155:573 F 5 '42; Trusts & Estates 74:139-40 F '42

Sees tax on municipals as unconstitutional. A. J. Tobin. Comm & Fin Chr 155:439 Ja 29 '42

Tax exemptions; charitable bequests, nonresident intangibles, and servicemen's estates. H. H. Romanoff. Trusts & Estates 75:317-18 S '42

Twenty billion dollars on the spot; market effects of possible taxation of income from state and municipal bonds. J. S. Williams. Mag of Wall St 69:534-6+ F 21 '42

Urges mayors to oppose local tax reductions, asks end of tax exempts. M. S. Eccles. Comm & Fin Chr 155:339 Ja 22 '42

Value of exemption removal from state and municipal securities deemed slight. F. R. Fairchild. Comm & Fin Chr 155:1856 My 14 '42

Bibliography

List of references on tax exemption of securities (supplementary to mimeographed lists, 1931 and 1938). F. S. Hellman, comp. 17p U.S. Lib. of Congress, Division of bibliography, Washington '42

TAXATION, Municipal. See Municipal taxation

TAXATION, State

Goodby to taxes; states losing out on gas levies. Business Week p26+ Jl 11 '42

Large tax loss to Illinois seen from war. Comm & Fin Chr 155:1330 Ap 2 '42

Multiple death taxation of intangibles, what now? R. C. Brown. Trusts & Estates 75:269-74 S '42

Prosperity pains; state tax setups now yielding record revenues. Business Week p48 D 6 '41

State and municipal taxes, up or down? R. P. Crawford. Barron's 22:9 O 5 '42

State boards of tax appeals. 16p pa 75c Federation of tax administrators, 1313 E. 60th st, Chicago '42

State tax on land taken by military. Comm & Fin Chr 156:189 Jl 16 '42

Supreme court holds states may tax defense contracts. Comm & Fin Chr 154:1219 N 27 '41

Taxation of consumers' cooperatives, 1940; with table of state taxes on corporations, and legal exemptions of cooperatives. F. E. Parker and T. Zorach. Monthly Labor R 54:968-88 Ap '42

TAXATION, State—*Continued*

U.S. Supreme court decisions favor state tax powers. Comm & Fin Chr 156:448 Ag 6 '42

Urges that state taxes on U.S. defense contracts be permitted. C. L. Kades. Comm & Fin Chr 154:1425+ D 11 '41

War impact seen in 1942 state tax income. Comm & Fin Chr 156:1345 O 15 '42

See also

Sales tax

Use tax

also state subdivisions under Taxation, e.g. Taxation—Michigan

TAXATION of exports. See Export trade—Taxation

TAXATION of securities

Federal reserve bank stock; tax on dividends. Fed Res Bul 28:753-5 Ag '42

Odd-lot victory; Big Board wins removal of New York state's double tax on small trades. Business Week p70 My 30 '42

See also

Stock transfer tax

Taxation, Exemption from

TAXICABS

Taxicabs; operation and maintenance; abstract. L. A. Schroyer. S A E J 49:sup37-8 D '41

Tough on taxis; tire problem beginning to look serious. il Business Week p19 Ap 18 '42

Laws and regulations

Beleaguered cabs; ODT's new rules. Business Week p36-8 S 5 '42

ODT curbs taxi operations in New York city. Comm & Fin Chr 156:1094 S 24 '42

ODT restricts taxis. Comm & Fin Chr 156:819 S 3 '42

TAXPAYERS' associations

Libraries

Suggestions for adapting the Glidden and Marchus index for the subject files of a taxpayers' research organization. M. A. Johnston. Special Lib 33:116-20 Ap '20

TAYLOR, Edmund H.

Bus man buys Worcester street railway. por Bus Transportation 20:605 D '41

TAYLOR model basin. See Ship model tanks

TAYLOR system. See Industrial management

TAYLOR-WHARTON iron and steel company

Taylor-Wharton started making iron before United States was born; pioneered high-manganese steel in this country. il Steel 111:53-5+ O 19 '42

TCHELITCHEW, Pavel, 1898-

Twelve artists in U.S. exile. Fortune 24:112 D '41

TEA

Facts about caffeine, theobromine in foods. P. W. Punnett. il Food Ind 14:52-3+ Mr '42

Machines bag and carton tea. il Mod Packaging 16:84, 86+ N '42

Rationing

Tea rationing. Economist 142:514 Ap 11 '42

TEA industry and trade

Future in your teacup. F. L. Peirce. il For Comm W 6:3-5+ Mr 28 '42

Higher tea quota. Economist 141:575-6 N 8 '41

New tea contracts. Economist 141:761-2 D 20 '41

New WPB orders affecting tea. For Comm W 7:20 Ap 18 '42

Pooled tea supplies. Economist 143:25-6 Jl 4 '42

Pooled tea supplies. Economist 143:398 S 26 '42

Tea on firing line; probable effect of war on U.S. market. Business Week p42 D 27 '41

Tea supplies and requirements. Economist 142:199 F 7 '42

Ukers' international tea and coffee buyers' guide. W. H. Ukers. 11th ed 244p pa $2 Tea and coffee trade journal co, 79 Wall st, New York '42

United Kingdom to purchase tea for United nations. For Comm W 8:21-2 Jl 25 '42

Advertising

Funds shrink, but tea advertising goes on: sales at record level. il Sales Management 50:40-2 Ja 1 '42

Great Britain

Tea company results; reports for 1940-41. Economist 143:247 Ag 22 '42

TEA rooms

Shop and tea room, Lake Mahopac, New York. il diag plans Arch Forum 76:117-19 F '42

TEA tree oils

Tea-tree oils. E. S. Guenther. bibliog il Soap & San Chem 18:23-5+ Ag; 25-7 S '42

TEACHERS

Occupational bulletin 23, educational services, War manpower commission. Chem & Eng N 20:1294 O 25 '42

Schoolteacher's liability; digest of recent cases. J. L. Roesch. Spectator (Property ed) 7:32-3 Je 25 '42

Wartime maintenance of scientific production. J. S. Nicholas. Science 96:393-5 O 30 '42

See also

College professors and instructors

TEACHERS, Training of

Teacher training for industry; developed and successfully used by the Philadelphia ESMDT group for training industrial teachers. C. C. Aiken and S. B. Lilly. 144p $1.25 McGraw-Hill '42

Bibliography

Education of teachers; selected bibliography, Oct. 1, 1935, to Jan. 1, 1941. B. W. Frazier. U S Office of Education Bul 1941, 2:1-60; pa 10c Supt. of doc. '41

TEACHING

Teaching as engineering. F. W. Thomas. J Eng Educ 32:732-8 My '42

See also

Advertising—Schools, Appeal to

Engineering colleges

Engineering education

Industrial education

Lecture method

Periodicals—Use in teaching

also subdivision Study and teaching under special subjects, e.g. Chemistry—Study and teaching; Science—Study and teaching

TEAMSTERS union. See International brotherhood of teamsters, chauffeurs, warehousemen, and helpers of America

TECHE lines, inc.

Teche lines, inc.; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:537-8 N '41

TECHNICAL association of the pulp and paper industry

Abridgement of papers at annual meeting, New York, Feb. 16-19. Paper Ind 23:1260+; 24:74+, 180+, 306-17, 430, 432+, 534-41, 636-8+, 762-4+, 974-9 Mr-O, D '42

Abridgement of papers at TAPPI fall meeting, Boston, Sept. 29-Oct. 1. Paper Ind 24: 742+, 870-80, 968+ O-D '42

Annual meeting, 27th, New York, Feb. 16-19. Paper Tr J 114:101-6 F 19 '42; Paper Ind 23:1224+ Mr '42; Oil Paint & Drug Rep 141: 3+ F 23 '42

Fall meeting, Boston, Sept. 29-Oct. 1. Paper Tr J 115:35-8, 40, 42 O 1 '42; Paper Ind 24: 713-14+ O '42

Graphic arts committee report, 1941. Paper Tr J 114:34 F 5 '42

Report of TAPPI delegates to the Inter-society color council; with proposed American defense emergency standard for the specification and description of color. J. L. Parsons. bibliog Paper Tr J 114:44-6 Mr 5 '42

TECHNICAL books. See Technical literature; Technology—Bibliography

TECHNICAL chemistry. See Chemistry, Technical

TECHNICAL education

Education and training for the electrical industry. H. V. Field. Inst E E J 89 pt 1:134-7 Mr '42

TECHNICAL education—*Continued*

Outlook for adult education. H. P. Hammond. Mech Eng 64:662-3 S '42

Place of the technical institute graduate in industry. A. L. Cook. J Eng Educ 32:452-6 Ja '42

Technical high school trains for life; Mont Pleasant technical high school, Schenectady. C. E. Crofoot. il Elec Eng 61:452-7 S '42

Training craftsmen for the engineering industry. F. H. Reid. Engineering 153:75-6 Ja 23 '42

See also

Aeronautic schools
Apprentices
Chemical education
Chemistry—Study and teaching
Employees, Training of
Engineering colleges
Engineering education
Illinois institute of technology
Industrial education
Massachusetts institute of technology
Mining schools and education
Northwestern university—Institute of technology
Technology—Study and teaching
Textile schools
Trade schools
Vocational education

Engineering, science and management defense [war] training

Are the EDT-ESMDT programs expediting defense? H. H. Armsby. J Eng Educ 32:5-9 F '42

College-level safety training; government-sponsored, tuition-free evening courses in the Chicago area train key employees in accident prevention. J. I. Yellott. il Nat Safety N 46:16-17, 68+ S '42

Education for defense. A. A. Potter. Mech Eng 64:23-4 Ja '42

Educational value of pre-service defense courses. E. W. Ruggles. J Eng Educ 32:841-54 Je '42

Engineers train for victory; ESMDT courses in electronics, radio communication, and ultrahigh-frequency technique. B. Dudley. il Electronics 15:36-8+ Mr '42

ESMWT succeeds ESMDT. A. M. Patterson. Chem & Eng N 20:1108 S 10 '42

Excerpts from Priority manual for engineering, science, and management, war training, August, 1942, page 7; correspondence concerning tire certificates for instructors. J Eng Educ 33:97-100 O '42

Instrument education and training; P. R. Ewald's model ESMDT course. Instruments 15:90, 92 Mr '42

Next fiscal year in E.S.M.D.T. G. W. Case. J Eng Educ 33:169-75 O '42

Scope and extent of the defense training program in accounting. S. P. Garner. J Account 73:537-45 Je '42

Seven months of defense training in chemistry. A. M. Patterson. Chem & Eng N 20:240 F 25 '42

Trends in college-grade defense training. R. A. Seaton. J Eng Educ 32:386-7 D '41

U.S. provides education for railroad personnel. Ry Age 112:794 Ap 18 '42

Vocational and safety training; abstract. J. I. Yellott. Concrete (mill sec) 50:192-3 Je '42

TECHNICAL libraries

Carnegie study of the libraries of technological colleges. T. R. Barcus. J Eng Educ 32:424-33 Ja '42

Development of libraries through purchase of books; Carnegie corporation appropriation for technological colleges. R. M. Lester. J Eng Educ 32:366 D '41

Special files in the Technology department of the Carnegie library of Pittsburgh. M. J. Griffin. Special Lib 33:23-4 Ja '42

Technical library should penetrate the community. M. Bedinger. Library Journal [New York] 67:195-8 Mr 1 '42

See also

Engineering societies library, New York
Highway departments—Libraries
Libraries—Technology departments
Paper libraries

TECHNICAL literature

Add best sellers; technical books go to town on war-created demand. Business Week p66+ O 10 '42

Publishers sweat to meet demand of war workers for technical books. il Sales Management 50:48+ F 1 '42

See also

Scientific literature
Technology—Bibliography

TECHNICAL products

See also

Equipment industries
Industrial market
Machinery industry

also names of technical products, e.g. Bearings; Belting; Gearing

Advertising

Cochran unifies flow meter sales story with visual presentation. W. C. Bennett. il Sales Management 51:55-7 Ag 15 '42

Springs given new significance in Hunter campaign. K. D. Montgomery. il Ind Marketing 27:26-7 F '42

See also

Advertising—Industries, Appeal to
Belting—Advertising

TECHNICAL schools. See Technical education

TECHNICAL societies

Associated committees ask for ideas to solve mechanical problems in war. Steel 110:42 Ja 26 '42

Handbook of scientific and technical societies and institutions of the United States and Canada; United States section, comp. by C. Hull and M. Paddock; Canadian section, comp. by S. J. Cook and P. A. Howard. (Bul. 106) 4th ed 389p $4 National research council '42

Standardization activities of national technical and trade organizations. R. A. Martino. U S Nat Bur Stand Misc Pub M169:1-288; 75c Supt. of doc. '41

See also

Engineering societies
Trade associations

TECHNICAL terms. See Technology—Terminology

TECHNICAL workers

Essential work regulations for scientific and technical personnel in Canada. Can Chem & Process Ind 26:203+ Ap '42

Kokomo counts noses to learn how many skilled men were potentially available for a war production program. Am Business 12:17-18 Mr '42

Mobilizing Canada's technical manpower. R. F. Legget. Eng N 129:489-90 O 8 '42

National roster and wartime engineering education. L. Carmichael. J Eng Educ 33:52-8 S '42

National roster of scientific and specialized personnel. M. Van de Water. Science 95:sup10-11 Je 5 '42

National roster of scientific and specialized personnel: statement. Science 95:12-13 Ja 2 '42

National roster of scientific and specialized personnel; third progress report. L. Carmichael. Science 95:86-9 Ja 23 '42; Excerpts. Mech Eng 64:228-9 Mr '42

National roster of specialized personnel. S. H. Britt. Civil Eng 12:62 Ja '42

National service; a challenge to the engineer; planning needed for post-war rehabilitation and reconstruction. E. M. Little. Pulp & Pa of Can 43:241-4 F '42

New regulations governing employment in essential industries; to correct mal-distribution of technical men and provide for re-instatement. A. D. P. Heeney. Pulp & Pa of Can 43:369-71 Ap '42

Organization of technical manpower. E. M. Little. Can Chem & Process Ind 25:616+ N '41

Place of the technical institute graduate in industry. A. L. Cook. J Eng Educ 32:452-6 Ja '42

TECHNICAL workers—*Continued*

Recruiting technical personnel at Monsanto. R. B. Semple. Chem Ind 51:198-9 Ag '42

Saving technical men for winning the war. F. C. Whitmore. Chem & Eng N 20:1099-1100 S 10 '42

Skilled men in the services. Engineer 173:182-3 F 27 '42

War service of chemists and chemical engineers. Chem & Eng N 20:837-9 Jl 10 '42

Waste of men; use of men with rare skill in service duties. Economist 142:244-5 F 21 '42

See also

Aeronautic workers
Chemists
Electric workers
Engineers
Laboratory workers
Radio workers
Tennessee Valley authority—Employees

TECHNOLOGY

Applied science. C. W. Banks. 212p $1.75 Wiley '42

80 points about technological changes; digest and commentary on report by J. W. Riegel. Personnel J 21:122-30 O '42

How it works; an encyclopedia of mechanical knowledge. E. Hawks. 512p $1.98 Garden City pub. co, Garden City, N.Y. '41

Increasing productivity and technological improvements in defense industries. L. A. Epstein and I. H. Siegel. bibliog Monthly Labor R 54:34-48 Ja '42; Abstract. Management R 31:274-6 Ag '42

It works like this. B. Leyson. 224p $2.50 Dutton '42

Management, labor and technological change. J. W. Riegel. 187p $2.50 Univ. of Michigan press, Ann Arbor '42; Review, by W. R. Maclaurin. Mech Eng 64:805-6 N '42

TechniData hand book. E. L. Page. 64p $1.50; pa $1 Henley '42

Technological high command. il Fortune 25: 62-7+ Ap '42; Same. Inst Radio Eng Proc 30:309-18 Jl '42; Discussion. Fortune 26:36 Jl '42

Technology in our economy. L. L. Lorwin, J. M. Blair and R. Aull. (T.N.E.C. monograph, 22) 313p 35c Supt. of doc. '41; Review by A. A. Bright. Mech Eng 64:352-4 My '42

Through engineering eyes; science selections from literature. A. R. Cullimore, comp. rev ed 166p pa $1 Pitman '41

See also

Brickmaking
Building
Ceramics
Chemistry, Technical
Clay industries
Concrete
Dyes and dyeing
Electric engineering
Engineering
Glass manufacture
Industrial education
Inventions
Machinery
Machinery in industry
Manufactures
Metallurgy
Mineral industries
Oil industries
Paper making
Pottery
Printing
Railroad engineering
Rubber
Soap
Steel
Technical education
Testing
Textile industry

Bibliography

ASLIB book-list; quarterly recommendations of recently published scientific and technical books. Published by Association of special libraries and information bureaux, 31 Museum st, London WC 1

Necessary stock items for three important bookstore departments. Publishers' Weekly 141:1649-50 My 2 '42

New technical books; a selected list on industrial arts and engineering added to the New York public library. Published quarterly by the New York public library, New York

Publishers' weekly; Technical books number. p1501-1628 R. R. Bowker co, 62 W. 45th st, New York '42

Technical publications, 1940-41, issued by the U.S. government. C. H. Melinat, comp. Booklist [ALA] 38:138-41 D 15 '41

Dictionaries

Audels mechanical dictionary for technical trades, arts and sciences. N. Hawkins; E. P. Anderson, comps. 948p $4 Theo. Audel & co, New York '42

Social aspects

Suggests federal agency to promote post-war technological advances. R. C. Muir. Comm & Fin Chr 156:1448 O 22 '42

When the last shot's fired, what then? now's the time for advertising manager to sell everyone on social significance of technological progress. S. A. Knisely. Ind Marketing 27:31-2+ Ag '42

Study and teaching

Modern-life science. R. H. Carleton and H. H. Williams. 650p $2.40 Lippincott '42

Using science. V. C. Smith, G. H. Trafton and W. R. Teeters. 802p $1.80 Lippincott '42

See also

Technical education

Terminology

Some technical terms. J. F. Petree. Engineering 153:276-7 Ap 3 '42

TEETH

Fluorine acquired by mature dog's teeth. F. J. McClure. bibliog Science 95:256 Mr 6 '42

See also

Dentifrices

Abnormities and deformities

Prevention of malocclusion. P. G. Spencer. 254p $5 C. V. Mosby co, St Louis '41

Diseases and defects

Dental infections and the industrial worker. E. Goldhorn. Nat Safety N 45:34, 36+ Ja '42

Dental status of adult male mine and smelter workers. H. P. Brinton, D. C. Johnston and E. O. Thompson. bibliog Pub Health Rep 57:218-28 F 13 '42

Domestic water and dental caries; additional studies of the relation of fluoride domestic waters to dental caries experience in 4,425 white children, aged 12 to 14 years, of 13 cities in 4 states. H. T. Dean and others. Pub Health Rep 57:1155-79 Ag 7 '42

Domestic water and dental caries; effect of increasing the fluoride content of a common water supply on the lactobacillus acidophilus counts of the saliva. F. A. Arnold, jr., H. T. Dean and E. Elvove. bibliog Pub Health Rep 57:773-80 My 22 '42

Effect of synthetic vitamin K on the rate of acid formation in the mouth. L. S. Fosdick, O. E. Fancher and J. C. Calandra. Science 96:45 Jl 10 '42

Fluorine and tooth decay; abstract. V. D. Cheyne. Science 95:sup14 My 22 '42

Production of carious lesions in the molar teeth of hamsters (C. auratus). F. A. Arnold, jr. Pub Health Rep 57:1599-1604, pl 1-2 O 23 '42

Tooth decay and place of residence; abstract. B. R. East. Science 96:sup10 N 6 '42

Tooth decay and pyorrhea; abstract. Science 94:sup9 N 21 '41

Tooth decay; Deaf Smith county, Texas; abstract. E. Taylor. Science 94:sup12 N 7 '41

TEETH, Artificial

Mass production of plastic teeth. H. M. Justi, jr. il Mod Plastics 19:44-5+ D '41

Modern methods of tooth replacement. J. R. Schwartz. 748p bibliog(p733-9) $10 Dental items of interest pub. co, Brooklyn, N.Y. '42

Plastics competition award to Austenal laboratories, inc.; H. D. Justi & son, inc. il Mod Plastics 19:144-5 N '41

TELAUTOGRAPH

Write by wire. S. S. Dewson. il Steel 110: 52-4+ Mr 30 '42

TELEGRAPH

Metallurgical problems in the telegraph industry. F. H. Clark. il Min & Met 23: 18-20 Ja '42

TELEGRAPH—*Continued*

Sick telegraph industry; adverse effect of depression, increased competition, and taxes; advisability of legislation permitting mergers. A. Barnes. Pub Util 29:142-8 Ja 29 '42

Telegraph services to certain foreign countries suspended. For Comm W 6:32 Ja 17 '42

See also

Radio telegraph

Railroads—Telegraph

TELEGRAPH, Carrier current

Frequency-modulated carrier telegraph system. F. B. Bramhall and J. E. Boughtwood. il diags Elec Eng 61:Trans 36-9 Ja '42; Abstract. Electronics 15:106+ Ap '42

Frequency modulation applied to telegraph lines. Science 94:sup10 D 12 '41

TELEGRAPH, Submarine

Rates

Cablegram rates cut for overseas soldiers. Comm & Fin Chr 155:2202 Je 11 '42

TELEGRAPH companies

Brighter prospects for telegraph merger. L. Edwards. Barron's 22:8 Ap 20 '42

Senate authorizes telegraph company mergers. Comm & Fin Chr 156:113 Jl 9 '42

War hastens efforts to merge telegraph companies. A. Barnes. Pub Util 29:681-5 My 21 '42

Wire and wireless communication. Published in bi-weekly numbers of Public utilities fortnightly

See also

American telephone and telegraph company

International telephone and telegraph corporation

Western union telegraph company

Finance

Commercial Mackay buys in its bonds. M. Pescatello. Barron's 21:19 N 17 '41

Sick telegraph industry; adverse effect of depression, increased competition, and taxes; advisability of legislation permitting mergers. A. Barnes. Pub Util 29:142-8 Ja 29 '42

Regulation

Senate debate on wire control bill. Pub Util 29:243-7 F 12 '42

Securities

Likes telegraph companies. G. Y. Billard. Comm & Fin Chr 155:1940 My 21 '42

TELEMETERING

Centralized control lowers holder operating costs. R. Trautschold. il Gas Age 89:27+ Mr 12 '42

D-c telemeter or d-c Selsyn for aircraft. R. G. Jewell and H. T. Faus. il diags Elec Eng 61:Trans 314-17 Je '42

Radio telemetering system is announced. F. Leupold. Instruments 15:30 Ja '42

Supervisory remote control for Wellington, New Zealand. E. M. S. McWhirter and H. J. Ward. il Engineer 174:116-18 Ag 7 '42

Telemetering, supervisory control, and associated circuits. rev ed 27p bibliog(p25-6) pa 80c Am. inst. of electrical engineers, New York '41

TELEPATHY

Thoughts through space; a remarkable adventure in the realm of the mind. H. Wilkins; H. M. Sherman. 421p $4.50 Creative age press, New York '42

TELEPHONE

How adequate are telephone homes as cross-section of radio audience? C. E. Hooper. Ptr Ink 200:43+ Jl 24 '42

Line's busy; customers feel WPB equipment freeze. Business Week p45-6 Jl 25 '42

Major industry supports general defense; United States now communications center of world. W. H. Hillyer. il Barron's 22:9 Jl 27 '42

National defense and the telephone industry. Pub Util 28:769-72 D 4 '41

No needless phones. Comm & Fin Chr 155:2220 Je 11 '42

Priority rule may be invoked on phone use. Comm & Fin Chr 156:110 Jl 9 '42

Rationing telephone service. F. B. Warren. Pub Util 29:342-6 Mr 12 '42

Telecommunications of the future; abstracts. W. G. Radley. Engineer 172:300 O 31 '41; Engineering 152:405 N 21 '41

War by telephone. Fortune 26:24 O '42

War effect on telephone rates and service. Pub Util 29:770-3 Je 4 '42

What price telephones? N. Perelman. 40p bibliog(p40) 15c League for industrial democracy, New York '41

See also

Microphones

Radio telephone

Railroads—Telephone

Telephone, Carrier current

Telephone cables

Telephone companies

Telephone in business

Telephone lines

also American telephone and telegraph company; International telephone and telegraph corporation

Apparatus and supplies

Conservation of critical materials by the use of substitutes, with reference to telephone field; abstract. J. R. Townsend. Elec Eng 61:317-18 Je '42

Flexible equalizing amplifier; used for equalizing loudspeakers, recording heads, playback equipment, or telephone lines. E. G. Cook. il diags Electronics 15:36-41+ Jl '42

Quality control with sampling inspection; welding contacts for telephone equipment. C. S. Barrett. Mech Eng 64:361-4 My '42

Saved! 6,500,000 pounds of war materials; conservation program, Western electric company. il Factory Management 100:45-8 Ap '42

Some mechanical aspects of telephone apparatus. J. D. Tebo and H. G. Mehlhouse. il diags plan Mech Eng 64:343-51, 463-9 My-Je '42

Substituting and reclaiming metal in the telephone system. Min & Met 22:595 D '41

Telephone industry saves metal. il Metal Prog 41:54-8 Ja '42

Telephone savings; reclamation and substitution for conservation. Sci Am 166:129-30 Mr '42

Telephone system's success in meeting material shortage. il Manuf Rec 110:34-5, 68 N '41

Tropical climate and telecommunication technique. W. M. H. Schulze. Wireless Eng 19:304-8 Jl '42

War material conservation in pipe-line communication systems. L. W. Adler. Pet Eng 13:31 Jl '42

See also

Telephone receivers

History

Talking round the earth. F. E. Benz. 233p $2 Dodd '42

Long distance

Line is busy. il Business Week p18 Ja 10 '42

Voice-frequency signalling and dialling in long-distance telephony. W. G. Radley and E. P. G. Wright. bibliog il diags Inst E E J 89 pt 3:43-64 Mr '42; Abstract. Electrician 128:9 Ja 2 '42; Discussion. Inst E E J 89 pt 3:64-73, 178-90 Mr, S '42; Electrician 128:9-10 Ja 2 '42

Private wire systems

Automatic telephones used on Illinois Central. il plan Ry Age 111:908-9+ N 29 '41

Rates

War effect on telephone rates and service. Pub Util 29:770-3 Je 4 '42

Where does OPA stand on utility rate freezing? H. R. Booth. Pub Util 30:162-5 Jl 30 '42

TELEPHONE—*Continued*

Repeaters

Future of transoceanic telephony. O. E. Buckley. Bell System Tech J 21:11-19 Je '42; Same cond. Engineering 153:384-5 My 15 '42; Excerpt. Engineer 173:366-7 My 1 '42; Abstract. Elec R (Lond) 130:560-1 My 1 '42

Tables, calculations, etc.

Poisson's exponential binomial limit; Table I, individual terms; Table II, cumulated terms. E. C. Molina. 45p, 47p pa $2.75 Van Nostrand '42

Reliability of holding time measurements. R. I. Wilkinson. Bell System Tech J 20: 365-404 O '41

Canada

Telephone statistics for 1940. 24p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

TELEPHONE, Automatic

Automatic telephones used on Illinois Central. il plan Ry Age 111:908-9+ N 29 '41

Some mechanical aspects of telephone apparatus; development of crossbar switch as a typical unit of automatic dial telephone system. J. D. Tebo and H. G. Mehlhouse. il diags Mech Eng 64:348-51 My '42

Some mechanical aspects of telephone apparatus; producing crossbar switches for automatic dial telephone system. J. D. Tebo and H. G. Mehlhouse. il diag plan Mech Eng 64:463-9 Je '42

Voice-frequency signalling and dialling in long-distance telephony. W. G. Radley and E. P. G. Wright. bibliog il diags Inst E E J 89 pt 3:43-64 Mr '42; Abstracts. Elec R (Lond) 129:704-5 D 19 '41; Electrician 128: 9 Ja 2 '42; Discussion. Inst E E J 89 pt 3: 64-73, 178-90 Mr, S '42; Electrician 128:9-10 Ja 2 '42

TELEPHONE, Carrier current

Carrier-current relaying and communication on the TVA system. M. S. Merritt and T. DeW. Talmage. il diags Elec Eng 61:561-72 N '42

Communication and signaling features on new line. L. E. Adler. il diags Pet Eng 13:140-4 Mr '42

Electronic switching simplifies power-line communications. J. D. Booth. il diags Electronics 15:44-7 Ag '42

F-m carrier current telephony. B. Dueño. il diags Electronics 15:57+ My '42

Future of transoceanic telephony. O. E. Buckley. Bell System Tech J 21:6-19 Je '42; Same. Inst E E J 89 pt 1:456-61 O '42; Same cond. Engineering 153:377, 384-5 My 8-15 '42

How to operate and maintain carrier communication equipment. Elec W 118:1476 O 31 '42

Multichannel carrier-current facilities for a power line. P. N. Sandstrom and G. E. Foster. diags Elec Eng 61:Trans 75-6 F '42

OCD carrier current tests. Electronics 15:59+ Ag '42

Simple uni-directional carrier-current communicator. J. L. Smith. diags Electronics 15:54 F '42

Telecommunications of the future; abstracts. W. G. Radley. Engineer 172:300 O 31 '41; Engineering 152:405 N 21 '41

Telephone amplifier for power company circuits. W. H. Blankmeyer. il diag Electronics 15:78+ Ap '42

TELEPHONE, Radio. See Radio broadcasting; Radio telephone

TELEPHONE, Submarine

Future of transoceanic telephony. O. E. Buckley. Bell System Tech J 21:1-19 Je '42; Same. Inst E E J 89 pt 1:454-61 O '42; Same cond. Engineering 153:376-7, 384-5 My 8-15 '42; Excerpt. Engineer 173:366-7 My 1 '42; Abstracts. Electrician 128:415-18 My 1 '42; Elec R (Lond)130:559-61 My 1 '42

Sea 'phone by underwater cable, seen as possible. Sci Am 167:129 S '42

TELEPHONE booths

Burgess model 207 acousti-booth. il Diesel Power 20:489 Je '42

TELEPHONE cables

Recent developments in burying telephone cables. D. Fisher and T. C. Smith. il Elec Eng 61:Trans 169-74 Ap '42

See also

Telephone, Submarine

TELEPHONE companies

War by telephone. Fortune 26:24 O '42

Wire and wireless communication. Published in bi-weekly numbers of Public utilities fortnightly

See also

American telephone and telegraph company

International telephone and telegraph corporation

Employees

Phone settlement; Long Lines strike averted. Business Week p56+ N 29 '41

Telephone man is called to the colors. Pub Util 29:571-4 Ap 23 '42

See also

Telephone operators

Finance

American Telephone's dividend outlook. O. J. Gingold. Barron's 21:7 D 8 '41

Unique position for American Telephone convertible 3s, 1956. A. Jansen. Barron's 21: 19-20 D 1 '41

See also

New York telephone company

Management

How Illinois Bell Telephone cuts auto fleet maintenance costs. Sales Management 49: 66+ N 15 '41

Regulation

Senate debate on wire control bill. Pub Util 29:243-7 F 12 '42

War production board orders. Pub Util 29: 425-6 Mr 26 '42

Safety measures

School for safe practice; New York telephone company. il Nat Safety N 45:24-5 F '42

TELEPHONE exchanges

Power

Regulated rectifiers in telephone offices. D. E. Trucksess. diags Elec Eng 61:Trans 613-17 Ag '42

TELEPHONE in business

Ballantine beats gas shortage with systematic phone selling; eliminating non-productive draft loads. C. W. Badenhausen. Sales Management 51:44+ S 15 '42

How to use the telephone. W. Patton. Ins Field (Fire ed) 71:18 S 3 '42

Use of telephone for sales work saves much time. H. T. Wright. Nat Underw (Life ed) 46:23-4 Ag 28 '42

See also

Gas companies—Telephone

Salesmanship—Telephone contacts

TELEPHONE lines

Communication and signaling features on new line. L. E. Adler. il diags Pet Eng 13:140-4 Mr '42

Recent developments in burying telephone cables. D. Fisher and T. C. Smith. il Elec Eng 61:Trans 169-74 Ap '42

See also

Telephone, Carrier current

Protection

Ignitron rectifiers in industry; telephone interference problem. J. H. Cox and G. F. Jones. diags Elec Eng 61:Trans 717-18 O '42

Low frequency shielding in telephone cables. Edison Elec Inst Bul 10:245 Je '42

TELEPHONE lines—Protection—*Continued*

Performance of ground-relayed distribution circuits during faults to ground; data useful in joint use of poles by power and telephone facilities. C. L. Gilkeson, P. A. Jeanne and J. C. Davenport, jr. il Elec Eng 61:Trans 40-8 Ja '42

TELEPHONE operators

Telephone operator; civil service examination questions and answers. 209p pa $1 Civil service news, 105 N. Clark st, Chicago '41

TELEPHONE rates. See Telephone—Rates

TELEPHONE receivers

Injection molded telephone handsets. R. M. Spong. il Mod Plastics 19:33+ D '41

TELEPHONE switchboards

Some mechanical aspects of telephone apparatus; development of crossbar switch as a typical unit of automatic dial telephone system. J. D. Tebo and H. G. Mehlhouse. il diags Mech Eng 64:343-51 My '42

Some mechanical aspects of telephone apparatus; producing crossbar switches for automatic dial telephone system. J. D. Tebo and H. G. Mehlhouse. il diag plan Mech Eng 64:463-9 Je '42

TELESCOPE

Determining telescope magnification by the principal planes method. L. W. Jones. Eng N 128:410 Mr 12 '42

Electrical features of the 200-inch telescope. B. H. Rule. il diags Elec Eng 61:67-78 F '42

Telescope for the new National astrophysical observatory in Mexico. W. Davis. Science 95:sup8 F 13 '42

Telescoptics. A. G. Ingalls. il Published in monthly numbers of Scientific American

World's largest telescopes; list. G. E. Pendray. Elec Eng 61:78 F '42

Mirrors

Machine for grinding and polishing telescope mirrors. A. G. Ingalls. il Sci Am 165:360-2 D '41

Tests of the 82 inch mirror at the McDonald observatory. J. S. Plaskett. Sci Am 166: 158-60, 214-16 Mr-Ap '42

200-inch telescope mirror being made in California. J. A. Anderson. il diag Sci Am 166:46-8, 106-8 Ja-F '42

Mounting

Equatorial type of mounting. A. G. Ingalls. il diags Sci Am 166:308-10 Je '42

TELESCOPE, Cosmic ray. See Cosmic rays

TELETYPE

T&T facilities increased in '41. J. H. Dunn. il Ry Age 112:126-8 Ja 3 '42

Teleprinter network; L.N.E.R. installation. il Elec R (Lond) 130:799-800 Je 19 '42; Electrician 128:554-6 Je 5 '42

TELEVISION

Advantages and disadvantages of various types of focusing and deflection methods used in television. B. J. Edwards. Radio N 28:42-3 S '42

Audels new radiomans guide; theory, construction and servicing; television. E. P. Anderson. new ed 756p $4 Theo. Audel & co, New York '42

4000 years of television; the story of seeing at a distance. R. W. Hubbell. 256p bibliog(p238-9) $2.25 Putnam '42

Future of television. O. E. Dunlap, jr. 194p $2.50 Harper '42

Image errors occurring in the deflection of a cathode-ray beam in two crossed deflecting fields; abstract. G. Wendt. Wireless Eng 19:274-5 Je '42

Measurement of the slope and duration of television synchronizing impulses. R. A. Monfort and F. J. Somers. il diags RCA R 6:370-89 Ja '42

Some simplified methods of determining the optical characteristics of electron lenses. K. Spangenberg and L. M. Field. bibliog il diags Inst Radio Eng Proc 30:138-44 Mr '42

Television today and tomorrow. L. de Forest. 361p $3.75 Dial press, New York '42

See also

Photoelectric cells

Radio communication

Bibliography

Radio progress during 1941. Inst Radio Eng Proc 30:66-7 F '42

Color

Color television. P. C. Goldmark and others. bibliog(23 patents, 49 titles) il diags Inst Radio Eng Proc 30:162-82 Ap '42; Same. Soc Motion Picture Eng J 38:311-52 bibliog(p348-52) Ap '42; Abstract. Electronics 15:33 F '42

New television development; use of colour technique and stereoscopic relief. J. L. Baird. diags Electrician 127:359 D 26 '41

Stereoscopic television in colour. Engineering 153:35 Ja 9 '42

Three-dimension color television. J. L. Baird. diags Electronics 15:76 My '42

Dictionaries

Dictionary of radio and television terms. R. Stranger. 252p $2.50 Chemical pub. co. '41

Patents

Recent U.S. patents; television. diag Electronics 15:182-4 Je '42

Photographic aspects

Photographing television images. R. Eichberg. il diags Am Phot 36:8-12 Ap; 16-18 My; 22-4 Je '42

See also

Television cameras

Standards

Adapting television receivers to the new standards. Electronics 14:63+ N '41

Stereoscopic reproduction

New television development; use of colour technique and stereoscopic relief. J. L. Baird. diags Electrician 127:359 D 26 '41

Three-dimension color television. J. L. Baird. diags Electronics 15:76 My '42

TELEVISION advertising

Botany boosts ties by television. il Textile World 91:88 N '41

Is television a war casualty? S. H. Giellerup. il Adv & Sell 35:27-8, 42+ Mr '42

Six tested television commercial techniques. il Ptr Ink 198:30-1+ Ja 23 '42

TELEVISION antennas

Heat-treated television; electric heater protects antenna. il Gen Elec R 44:696 D '41

Television reception with built-in antennas for horizontally and vertically polarized waves. W. L. Carlson. il diag RCA R 6: 443-54 Ap '42

TELEVISION apparatus

Analysis of feedback and prevention of oscillation in hf amplifiers. T. Chew. diags Radio N 27:14-15+ Je '42

Analysis, synthesis, and evaluation of the transient response of television apparatus. A. V. Bedford and G. L. Fredendall. bibliog diags Inst Radio Eng Proc 30:440-57 O '42

Characteristics of cathode-ray and television picture tubes. diags Electronics 15:88-90 F; 98+ Mr; 110+ Ap; 94-5 My '42

Color television. P. C. Goldmark and others. bibliog(23 patents, 49 titles) il diags Inst Radio Eng Proc 30:162-82 Ap '42; Same. Soc Motion Picture Eng J 38:311-52 bibliog(p348-52) Ap '42

Detecting aircraft at night; combining both noctovision and television. H. Rosen. il Radio N 27:6-7+ F '42

Factors governing performance of electron guns in television cathode-ray tubes. R. R. Law. bibliog diags Inst Radio Eng Proc 30:103-5 F '42

Low-frequency characteristics of the coupling circuits of single and multistage video amplifiers. H. L. Donley and D. W. Epstein. diag RCA R 6:416-33 Ap '42

TELEVISION apparatus—*Continued*

Mobile television equipment. R. L. Campbell and others. bibliog il diags Inst Radio Eng Proc 30:1-7 Ja '42; Same. Soc Motion Picture Eng J 39:22-36 Jl '42

Orthicon portable television equipment. M. A. Trainer. il diag Inst Radio Eng Proc 30:15-19 Ja '42

Portable high-frequency square-wave oscillograph for television. R. D. Kell, A. V. Bedford and H. N. Kozanowski. il diags Inst Radio Eng Proc 30:458-64 O '42

Relative sensitivities of television pickup tubes, photographic film, and the human eye. A. Rose. bibliog Inst Radio Eng Proc 30:293-300 Je '42

Simple television demonstration system. J. B. Sherman. il diags Inst Radio Eng Proc 30:8-15 Ja '42

Time bases. O. S. Puckle. bibliog diags Inst E E J 89 pt 3:100-19; Discussion. 119-23 Je '42

See also

Television antennas
Television cameras
Television receiving apparatus

TELEVISION broadcasting

Inaugural address; future of broadcasting. N. Ashbridge. map Inst E E J 89 pt 1:28-30 Ja '42; Same abr. Engineer 172:301-2 O 31 '41

Mobile television equipment. R. L. Campbell and others. bibliog il diags Inst Radio Eng Proc 30:1-7 Ja '42; Same. Soc Motion Picture Eng J 39:22-36 Jl '42

Progress in motion picture industry; report of the progress committee, 1940-41. Soc Motion Picture Eng J 39:306-9 N '42

Television, an agency for preparedness; with summary of six months of commercial operation. N. E. Kersta. maps Electronics 15:26-9+ Mr '42

Television: the wartime instructor of air raid wardens. A. Lescarboura. il map Radio N 27:42-3, 75-7 My '42

Transmission characteristics of asymmetric-sideband communication networks; investigation primarily of interest in connection with television. E. C. Cherry. bibliog diags Inst E E J 89 pt 3:19-39 Mr '42; Excerpts. Electrician 127:333-4 D 12 '41; Abstract. Elec R (Lond) 129:635 D 5 '41; Discussion. Inst E E J 89 pt 3:39-42 Mr '42

Moving pictures

Production of 16-mm motion pictures for television projection. R. B. Fuller and L. S. Rhodes. diag Soc Motion Picture Eng J 39:195-201 S '42

TELEVISION cameras

Focusing view finder problem in television cameras; abstract. G. L. Beers. diag Electronics 15:88-9 Ag '42

Mobile television equipment. R. L. Campbell and others. bibliog il diags Inst Radio Eng Proc 30:1-7 Ja '42; Same. Soc Motion Picture Eng J 39:22-36 Jl '42

Orthicon portable television equipment. M. A. Trainer. il diag Inst Radio Eng Proc 30:15-19 Ja '42

TELEVISION projection

Theoretical considerations on a new method of large-screen television projection; abstract. F. Fischer and H. Thiemann. Wireless Eng 18:469-70 N '41

TELEVISION receiving apparatus

Adapting television receivers to the new standards. Electronics 14:63+ N '41

Automatic frequency and phase control of synchronization in television receivers; abstracts. K. R. Wendt and G. L. Fredenall. diags(p66) Electronics 15:89 Ag '42; Inst Radio Eng Proc 30:254 My '42

Receiver input connections for u-h-f measurements. J. A. Rankin. diags RCA R 6:473-81 Ap '42

Television reception with built-in antennas for horizontally and vertically polarized waves. W. L. Carlson. il diag RCA R 6:443-54 Ap '42

Transients in frequency modulation. H. Salinger. Inst Radio Eng Proc 30:378-83 Ag '42

TELEVISION studios

Lighting

Mercury lighting for television studios: abstract. H. A. Breeding. Electronics 15:36+ Ag '42

Television light supplemented with fluorescent tubes. il Sci Am 166:195-6 Ap '42

TELEVISION transmission

Analysis, synthesis, and evaluation of the transient response of television apparatus. A. V. Bedford and G. L. Fredendall. bibliog diags Inst Radio Eng Proc 30:440-57 O '42

Measurement of the slope and duration of television synchronizing impulses. R. A. Monfort and F. J. Somers. il diags RCA R 6:370-89 Ja '42

TELLURIUM

Industrial utilization of selenium and tellurium. G. R. Waitkins, A. E. Bearse and R. Shutt. il diag Ind & Eng Chem 34:899-910 bibliog(143 references, p909-10) Ag '42

Selenium and tellurium; an examination of their uses in chemistry and metallurgy. Chem Age (Lond) 67:259-62 S 19 '42

Selenium and tellurium in industry; abstracts. R. S. Shutt and G. R. Waitkins. Chem & Met Eng 49:154-5 Ap '42; Min & Met 23:346 Je '42

Selenium and tellurium now valuable metals. Product Eng 13:171 Mr '42

Analysis

Qualitative semimicro-analysis with reference to Noyes and Bray's system; the copper and the tellurium group. C. C. Miller. Chem Soc J p786-92 N '41

Isotopes

Investigation of the X-radiation from Te^{121} (125 days) by critical absorption and fluorescence. R. D. O'Neal and G. Scharff-Goldhaber. Phys R 62:83-4 Jl 1 '42

Physiological effect

Industrial exposure to tellurium; atmospheric studies and clinical evaluation. H. H. Steinberg and others. bibliog J Ind Hygiene 24:183-92 S '42

TELLURIUM alloys

Hardening of tellurium-lead alloys. Engineer 172:sup[Metallurgist] 47-8 D 26 '41

Industrial utilization of selenium and tellurium; metallurgical uses. G. R. Waitkins, A. E. Bearse and R. Shutt. il Ind & Eng Chem 34:903-5 Ag '42

TELLURIUM compounds

Industrial utilization of selenium and tellurium; chemical uses. G. R. Waitkins, A. E. Bearse and R. Shutt. il Ind & Eng Chem 34:905-9 Ag '42

TELPHERAGE. See Cableways; Monorail conveyors

TEMBLOR range, California

Crocker Flat landslide area. R. R. Simonson and M. L. Krueger. bibliog il maps Am Assn Pet Geologists Bul 26:1608-31 O '42

TEMPERATURE

Application of apparatus and conductors under various ambient-temperature conditions. R. E. Hellmund and P. H. McAuley. diags Elec Eng 61:Trans 553-8 Ag '42

Determination of solubilities of gases at high temperatures and high pressures by the rotating bomb. V. N. Ipatieff and G. S. Monroe. diags Ind & Eng Chem Anal ed 14:166-71 F 15 '42

Effect of temperature on the surface tension and density of some halogen substituted acetic acids. J. J. Jasper and L. Rosenstein. bibliog Am Chem Soc J 64:2078-9 S '42

Effect of temperature upon the spectral sensitivity of photographic emulsions. C. H. Evans. bibliog Opt Soc Am J 32:214-18 Ap '42

Emissivities and temperature scales of the iron group. H. B. Wahlin and R. Wright. J Ap Phys 13:40-2 Ja '42

TEMPERATURE—*Continued*

Equilibrium in heterogeneous systems at high temperatures and pressures. L. H. Adams. bibliog Chem R 29:447-59 D '41

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Pressure-temperature relations of petroleum fractions. W. L. Nelson and W. Haltenberger, jr. Oil & Gas J 41:38-40 Je 11; 40-2 Je 18 '42

Temperature and electric stress in impregnated-paper insulation. J. B. Whitehead and W. H. MacWilliams, jr. bibliog Elec Eng 61:Trans 10-13 Ja '42

Temperature and resistance; graphic method of obtaining relationships rapidly. W. Bacon. Elec R (Lond) 129:432 O 24 '41

Temperature concept. M. K. Barnett. J Phys Chem 46:715-23 Je '42

Temperature data; chart includes melting points, temperature color scale, conversion data. G. Sykes. Welding J 21:178 Mr '42

Temperature dependence of reaction rates from the standpoint of the Broensted-Christiansen-Scatchard equation. E. S. Amis and G. Jaffé. bibliog J Chem Phys 10:646-50 O '42

Temperature scale, thermionics, and thermatomics of tantalum. M. D. Fiske. bibliog diag Phys 61:513-19 Ap 1 '42

Thermionic properties of the iron group. H. B. Wahlin. bibliog Phys R 61:509-12 Ap 1 '42

Variation with temperature of the principal elastic moduli of NaCl near the melting point. L. Hunter and S. Siegel. bibliog il diag Phys R 61:84-90 Ja 1 '42

See also

Air conditioning
Atmospheric temperature
Boiling points
Cooling
Earth temperature
Electric cables—Temperature
Electric machinery—Temperature
Freezing
Heat
Melting points
Softening points
Thermochemistry
Thermodynamics
Ventilation

Biological effect

Basic mechanism in the biological effects of temperature, pressure and narcotics. F. H. Johnson, D. Brown and D. Marsland. Science 95:200-3 F 20 '42

Measurement

Alloys of manganese-nickel and copper; the electrical resistance and temperature coefficient of electrical resistance. R. S. Dean and C. T. Anderson. Am Soc for Metals Trans 29:899-906 D '41

Calculation of the temperature field in the laminary boundary layer of an unheated body exposed to high speed flow; abstract. E. Eckert and O. Drewitz. Roy Aeronautical Soc J 46:341-2 O '42

Calorimetric method for determining efficiencies of electric machines. V. Siegfried and C. W. Thulin. bibliog il diag Elec Eng 61:Trans 530-2 Jl '42

Co-operative investigation of the factors influencing the durability of the roofs of basic open-hearth furnaces; conditions of service with particular reference to the temperature gradient through the roof. A. E. Dodd. bibliog Iron & Steel Inst J 144: 218-31, pl 21 no 2 '41

Determining tapping temperatures by the spoon test; training open-hearth crews facilitated by moving picture camera. A. G. Arend. il Steel 111:104, 108+ Jl 6 '42

Electronic temperature recorder contributes to aviation developments; primarily a flight recorder. il Electronics 15:114+ N '42

Heat-output measurement in hot-water systems. F. M. H. Taylor. Engineering 153: 127 F 13 '42

Heating curves; theory and practical application. F. C. W. Olson and J. M. Jackson. bibliog Ind & Eng Chem 34:337-41 Mr '42

How to calculate temperature rise in high-pressure pumps. T. Baumeister. Power 86: 306-7 My '42

Measurement of the physical properties of the thermal environment; report of the ASHVE research technical advisory committee on instruments. Heating-Piping 14: 382-5 Je '42

Nomograph for calculating reduced temperatures. D. S. Davis. Ind & Eng Chem 34: 1174 O '42

Piston temperatures; their measurement in petrol and Diesel power units. Automobile Eng 32:168 Ap '42

Production temperature-rise tests on transformers. H. S. Holbrook. Inst E E J 88 pt 2:245-9 Je '41; Discussion. 88 pt 2:590-2 D '41

Progress in engineering knowledge during 1941. P. L. Alger. bibliog diags Gen Elec R 45:103 F '42

Protection for roll neck bearings. il Blast F & Steel Pl 29:[1150-1] N '41

Rapid and accurate measurement of refrigerating capacity with secondary-refrigerant calorimeter and direct-reading Btu meter. H. F. Lathrop. il Gen Elec R 45: 403-6 Jl '42

Rapid temperature measurements of molten iron and steel with an immersion thermocouple. F. Holtby. il diags Am Soc for Metals Trans 29:863-75; Discussion. 875-80 D '41

Specific heat of thermal insulating materials. G. B. Wilkes and C. O. Wood. il diags Heating-Piping 14:370-4 Je '42

Temperature distribution in the liquid steel in various steel-making furnaces. D. A. Oliver and T. Land. il diags Blast F & Steel Pl 30:997-1002 S '42; Same. Iron & Steel Inst J 145:245-59, pl 25 no 1 '42; Excerpts. Elec R (Lond) 130:654-5 My 22 '42; Discussion. Iron & Steel Inst J 145:260-77 no 1 '42; Engineering 153:394 My 15 '42

Temperature-indicating paints; Thermindex. Engineering 152:416 N 21 '41

Temperature measurement and control. R. L. Weber. rev ed 430p $4 Blakiston '41

Temperature measurement and control by electronics. C. Walsh. bibliog il diags Electronics 15:56-61+ O '42

Temperature measurement in industrial furnaces; abstract. O. Koritnig. Am Cer Soc J 25 (Cer A 21):87 Ap 1 '42

Temperature sensitive paints; Thermindex colours. il Automobile Eng 31:458 D '41

Temperatures in solids during heating or cooling; tables for the numerical solution of the heating equation. F. C. W. Olson and O. T. Schultz. bibliog Ind & Eng Chem 34:874-7 Jl '42

Temperatures of natural-gas pipe lines and seasonal variations of underground temperatures. W. M. Deaton and E. M. Frost, jr. diags map U S Bur Mines Rep of Invest 3590:1-6 '41; Same cond. Am Gas Assn Mo 24:15-19 Ja '42; Same cond. Gas Age 89:18-23 Ja 1 '42

Thermal gradients in spot welding electrodes. F. R. Hensel, E. I. Larsen and E. F. Holt. il diags Welding J 20:850-6 D '41

Thermal logging of producing oil wells. C. R. Dale. Oil & Gas J 40:49-50 Mr 19 '42

Thermal relations between ingot and mould. T. F. Russell. bibliog diags Iron & Steel Inst J 143:163-91; Discussion. 192-4 no 1; 144:289-94 no 2 '41

Third report of the liquid-steel temperature sub-committee of the committee on the heterogeneity of steel ingots. Iron & Steel Inst J 145:213-43, pl 23-4 no 1 '42; Abstract. Engineering 153:356-7 My 1 '42; Discussion. Iron & Steel Inst J 145:260-77 no 1 '42

See also

Boiling points
Calorimeters and calorimetry
Heat units
Pyrometers and pyrometry
Thermocouples
Thermometers and thermometry

Physiological effect

Application of the effective temperature scheme to the comfort zone in Netherlands India. J. A. Wiesebron and others. bibliog diags Heating-Piping 14:632-40 O '42

TEMPERATURE—Physiological effect—*Cont.*

Comfort with summer air conditioning; report of the ASHVE research technical advisory committee. map Heating-Piping 13:649-54 O '41; Discussion. 14:204-5 Mr '42

Life and death at low temperatures. B. J. Luyet and P. M. Gehenio. 341p bibliog(p296-328) $4.50 Biodynamica, Normandy, Mo. '40

Medical and public health aspects of heating oil rationing. L. D. Bristol. Heating-Piping 14:627-30 O '42

Paradox of acclimatization. F. W. Hutchinson. diags Heat & Ven 39:25-7 F '42

Physiological fatigue from exposure to hot environments. M. B. Ferderber, F. C. Houghten and W. L. Fleisher. bibliog Heating-Piping 14:139-42 F '42

Radiation as a factor in the feeling of warmth in convection, radiator and panel heated rooms. F. C. Houghten, C. Gutberlet and E. C. Hach. il plans Heating-Piping 13:778-85 D '41; Discussion. 14:200-1 Mr '42

Temperature as a health factor in air conditioning. F. W. Hutchinson. Heat & Ven 38:27-9 D '41

See also

Cold—Therapeutic use

Regulation

Airliner air conditioning; maintaining constant temperatures during lay-over periods. J. A. Ferris. il Aviation 41:160-1+ Ap '42

Automatic time-temperature control in heat treating. diag Iron Age 150:54-5 N 5 '42

How much fuel can be saved by lowering inside temperatures. C. Strock. Heat & Ven 38:43-5 N '41

Instrumentalize for production. il Rayon 23:171-5 Mr '42

Instrumentation, 1941 and current trend. M. J. Bradley. il Metals & Alloys 15:94-6 Ja '42

Laboratory temperature and humidity cabinet for studying the hygroscopic properties of tobacco. L. H. Davis, A. W. Petre and C. F. Bailey. il diag Ind & Eng Chem Anal ed 14:587-90 Jl 15 '42

Sludge digestion temperature control with live steam. A. M. Rawn. il plan Water Works & Sewerage 89:310-13 Jl '42

Steam-temperature control; constancy over a wide range of turbine loading. diags Elec R (Lond) 130:615-18 My 15 '42

Temperature- and humidity-controlled dryer for a chemical engineering laboratory. R. M. Schaffner and J. Coull. diags Ind & Eng Chem Anal ed 14:590-2 Jl 15 '42

Temperature control for chromium plating. L. B. Lumpkin. diags Metal Finishing 40:302-5 Je '42

Temperature measurement and control by electronics. C. Walsh. bibliog il diags Electronics 15:56-61+ O '42

See also

Temperature regulators

Thermostats

TEMPERATURE, Animal and human

Physiological influence of atmospheric humidity; second report of the ASHVE technical advisory committee. bibliog Heating-Piping 13:774-7 D '41

TEMPERATURE, Low

Attenuated superconductors; for measuring infra-red radiation. D. H. Andrews and others. bibliog il diags R Sci Instr 13:281-92 Jl '42

Deepfreeze's ace; industrial applications of ultra-low temperatures. Business Week p68+ Ap 11 '42

Effect on the endurance limit of submerging fatigue specimens in a cold chamber. O. H. Henry and T. D. Coyne. il diags Welding J 21:sup249-54 My '42

Freezing waste gases from the steel and petroleum industries; abstract. C. T. Lane. Science 94:sup13 N 28 '41

Insulation for low temperature test rooms; using the Schmidt diagram for determining heat flow. L. C. Leslie. Refrig Eng 44:299-301 N '42

Low temperature physics in the USSR. C. T. Lane. Science 95:84-6 Ja 23 '42

Mechanical properties of alloys at low temperatures; abstract. Metals & Alloys 15:182+ Ja '42

Metals for sub-zero temperatures. L. H. Carr. il Refrig Eng 43:209-11 Ap '42

New demands for low temperature refrigeration. C. Leech. Refrig Eng 44:305-7 N '42

Progress of physics; advances in understanding of atomic structure, light, electrons and the solid and liquid states from 1930-1942. E. F. Burton. Can Chem & Process Ind 26:431 Jl '42

Reaction velocities at low temperatures; the ionisation of nitroethane at temperatures between -32° and +20°. R. P. Bell and A. D. Norris. Chem Soc J p854-6 D '41

Studies in superconductivity; evaporated lead films. W. F. Brucksch, jr. and W. T. Ziegler. bibliog Phys R 62:348-53 O 1 '42

Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

Thermodynamics of deep refrigeration. R. C. H. Heck. Mech Eng 64:473-6+ Je '42

Transformation of retained austenite in high speed steel at subatmospheric temperatures; treatment in liquid nitrogen. P. Gordon and M. Cohen. bibliog Am Soc for Metals Trans 30:569-88; Discussion. 588-91 S '42

Van der Waals sorption of chlorine by silica gel at low temperatures. L. H. Reyerson and C. Bemmels. J Phys Chem 46:31-5 Ja '42

See also

Cold—Therapeutic use

Freezing points

Refrigeration and refrigerating machinery

TEMPERATURE, Planetary. See Planets—Temperature and radiation

TEMPERATURE regulators

Instruments for aiding blast furnace production. R. M. Walker. flow sheet il diags Steel 111:134-6, 138, 141-2+ S 14 '42

Instruments in the pulp and paper industry; grinder temperature controller. J. N. Franklin. Pulp & Pa of Can 43:434-5+ My '42

Instruments in the pulp and paper industry; paper machine room. J. N. Franklin. Pulp & Pa of Can 43:817-20+ O '42

Modulating electronic temperature control. W. R. Elliot. diag Heating-Piping 14:631 O '42

Simplified electronic thermoregulator. W. E. Gilson and H. A. Wooster. bibliog diags J Chem Educ 19:531-2 N '42

Some practical pointers on temperature control. W. Goodman. diags Heating-Piping 14:661-5 N '42

Steel furnace instrumentation, with special reference to soaking-pit and open-hearth. M. J. Boho. flow chart il diags Instruments 15:167-72 My '42

Temperature control for dryers. diag Heating-Piping 14:sup124-5 N '42

Temperature control for multiple-burner oven. diag Metal Finishing 40:484-5 S '42

See also

Temperature—Regulation

Thermostats

TEMPERING

Multiple tempering of high speed steel. J. G. Ritchie. Metal Prog 41:85-6 Ja '42

Quenching of steel after tempering and the impact test. L. E. Benson. il diags Engineering 154:134-5 Ag 14 '42; Abstract. Metals & Alloys 16:1120+ D '42

See also

Steel, Hardening of

Steel, Heat treatment of

TEMPLES, Maya

Maya temple grows up; archeologists in Guatemala reveal evidences of five-times-reconstructed temple. L. Satterthwaite, jr. il diags Sci Am 167:18-19 Jl '42

TEMPORARY bridges. See Bridges, Temporary

TEMPORARY buildings. See Buildings, Temporary

TEMPORARY national economic committee
- Accounting aspects of T.N.E.C. monographs nos. 3, 9, and 20. J. S. Siedman; I. Sack; L. Mattersdorf. J Account 74:56-64 Jl '42
- Final report of the executive secretary. 435p Temporary nat. econ. com. Washington; pa 55c Supt. of doc. '41; Review, by B. F. Haley. R Econ Statis 24:92-8 My '42
- Patents and industrial progress; a summary, analysis, and evaluation of the record on patents of the Committee. G. E. Folk. 393p $3 Harper '42

TENDEROMETERS
- Attempt to judge the tenderness of vegetables and meats by means of the tenderometer; abstract. C. W. du Bois and F. A. Lee. Food Ind 14:103 My '42

TENDONS
- Nerve and tendon injuries of the hand. M. L. Mason. bibliog il Ind Med 11:61-6 F '42
- Tendon suturing. S. L. Koch. Ind Med 11:327-8 Jl '42

TENEMENT houses

See also

Slums

TENITE
- Bank from beryllium; die construction, use of beryllium copper molds and molding technique for Johnson souvenir banks. il Mod Plastics 19:45 My '42
- Sweeping in thermoplastics; achievements in injection molded vacuum cleaner housings and accessories. H. R. Husted. il Mod Plastics 19:40-3 My '42

TENITE II. See Cellulose acetate butyrate

TENNANTITE
- Progress reports, Metallurgical; silver-recovery studies; some factors affecting flotation of the silver-bearing minerals tennantite and enargite. E. S. Leaver, J. A. Woolf and A. P. Towne. U S Bur Mines Rep of Invest 3661:1-23 '42

TENNESSEE

See also

Clay—Tennessee
Copper mines and mining—Tennessee

TENNESSEE academy of science
- Annual meeting, 49th, Nashville, Nov. 28-29. K. E. Born. Science 95:48 Ja 9 '42

TENNESSEE river
- TVA's riverway. il Business Week p38+ D 6 '41

TENNESSEE valley

Antiquities

- Archeological survey of Pickwick basin in the adjacent portions of the states of Alabama, Mississippi and Tennessee. W. S. Webb and D. L. DeJarnette. (Smithsonian inst. Bur. of Am. ethnology bul. 129) 536p 316pls pa $2 Supt. of doc. '42

TENNESSEE Valley authority
- Emergency program of the TVA. T. B. Parker. il map Eng N 127:866-70 D 18 '41
- Federals are coming; background of feud between Senator McKellar and the TVA directors. H. Corey. Pub Util 29:729-36 Je 4 '42
- Progress of TVA power program. H. Wiersema. il map Civil Eng 12:77-80 F '42
- Senate limits TVA's control over its funds. Elec W 117:1671-2 My 16 '42
- Senate votes supply bill; limits funds for TVA. Comm & Fin Chr 155:1871 My 14 '42
- Shadow and substance in the TVA power controversy. J. S. Ransmeier. 35p pa 25c Vanderbilt univ. press, Nashville, Tenn. '41
- TVA and auxiliaries pay $3,709,416 in lieu of tax. Eng N 129:339 S 10 '42
- TVA capacity now 1,043,670 kw; abstract. R. A. Hopkins. Power 86:150c-150d F '42
- TVA plans public freight terminals to aid river valley shipping firms. Eng N 129:69 Jl 9 '42
- TVA's war might; system is engaging in manufacture of munitions. map Business Week p24, 27 Ap 11 '42
- TVA's wartime program. C. H. Vivian. il diags map Comp Air M 47:6698-704 Ap '42

Accounting

- Allocation of the Tennessee Valley authority projects. T. B. Parker. map Am Soc C E Proc 67:1813-26 D '41; Discussion. 68:339-40, 483-96, 837-8, 1001-8, 1465-70, 1807-8 F-Mr, My-Je, O, D '42
- TVA accounting vendetta. A. Barnes. Pub Util 28:688-92 N 20 '41

Bibliography

- Indexed bibliography of the Tennessee Valley authority, supplement Jan.-Dec. 1941. H. C. Bauer, comp. 16p Tennessee Valley authority, Technical lib. Knoxville, Tenn. '42
- Selected list of books, theses, and pamphlets on TVA. B. L. Foy, comp. 12p Tennessee Valley authority, Office of the director of information. Technical lib. Knoxville, Tenn. '42

Employees

- Pay rates of TVA employees, 1942. Monthly Labor R 55:353-6 Ag '42
- Trained by TVA; sharecropper to journeyman machinist. il Business Week p60-1 N 29 '41

TENNESSEE Valley project
- Apalachia project of the TVA; dam, conduit and penstock. C. H. Vivian. il map Comp Air M 47:6723-32 My '42
- Carrier-current relaying and communication on the TVA system. M. S. Merritt and T. DeW. Talmage. il diags Elec Eng 61:561-72 N '42
- Guntersville project; a comprehensive report on the planning, design, construction, and initial operations of the Guntersville project. (Tech. report 4) 423p Tennessee valley authority, Knoxville, Tenn. $1 Supt. of doc. '41
- Relation of river dams to community water supplies. W. G. Stromquist and L. H. Clouser. Am Water Works Assn J 34:367-73 Mr '42
- Soils engineering at Kentucky dam. M. N. Sinacori. il plan Civil Eng 12:423-6 Ag '42
- TVA starts construction of $30,000,000 Douglas dam. Eng N 128:213-14 F 5 '42

TENNIS shoes. See Shoes, Rubber

TENSION control. See Winding machines—Tension control

TENSOLITE. See Tensylon

TENSYLON
- Tensylon is a new textile; yarn-like rubber hydrochloride product; raw material is Pliofilm. il Textile World 91:89 N '41

TENTERING
- Redesign of tentering machine. il Rayon 22:739 D '41

TENTS
- Circus moves to Alaska; tent at Yakutat Bay, Alaska, protecting newly-laid concrete runways at army base. il Eng N 127:839 D 11 '41
- Experiments on carbon monoxide poisoning in tents and snow houses. L. Irving, P. F. Scholander and G. A. Edwards. il J Ind Hygiene 24:213-17 O '42

TEPHROSIA virginiana
- Tephrosia extract against house flies. H. A. Jones and W. N. Sullivan. bibliog Soap & San Chem 18:94-5 S '42

TEPHROSIN
- Constituents of derris and other rotenone-bearing plants. H. L. Haller, L. D. Goodhue and H. A. Jones. Chem R 30:33-48 bibliog(77 references, p47-8) F '42

TEREBRATULOIDS
- Color-patterns in Devonian terebratuloids. P. E. Cloud, jr. Am J Sci 239:905-7 D '41

TERGITOLS
- Some pharmacological properties of the tergitol penetrants. H. F. Smyth, jr, J. Seaton and L. Fischer. bibliog J Ind Hygiene 23:478-83 D '41

TERMINAL companies
Why St Louis is no bottleneck; Terminal railroad association is keeping heavy traffic moving. il map Ry Age 113:655-7+ O 24 '42
See also
New York dock company

TERMINALS
TVA plans public freight terminals to aid river valley shipping firms. Eng N 129:69 Jl 9 '42
See also
Air lines—Terminals
Cargo handling
Freight handling
Motor bus lines—Terminals
Ports
Railroads—Terminals

TERMINOLOGY. See subdivision Terminology under special subjects, e.g. Accounting; Chemistry; Engineering; Sound; Textile fabrics; Welding

TERMITES
Case of wine-fed termites. J. A. Mullen. Science 95:529-30 My 22 '42
Preservation of timber. R. L. Brooks. bibliog Inst Pet J 28:63-77; Discussion. 78-81 Ap '42
Simple method of controlling termites; use of discarded lubricating oil. J. C. Cross. Science 95:433 Ap 24 '42

TERPENES
Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34:1028-34 S '42
Resinous hydrocarbon products as rubber extenders; coumarone and terpene resins. L. M Geiger. India Rubber W 105:489-90 F '42

Analysis

Performance of some distillation columns for the fractionation of terpenes. W. D. Stallcup, R. E. Fuguitt and J. E. Hawkins. bibliog diag Ind & Eng Chem Anal ed 14:503-5 Je 15 '42

TERPHENYL
Chemistry of *o*-terphenyl (*o*-diphenylbenzene); the general reactivity, basal structure and rearrangements of the hydrocarbon. C. F. H. Allen and F. P. Pingert. bibliog Am Chem Soc J 64:1365-71 Je '42

TERPINEOL
Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34:1028-34 S '42

TERRA cotta
Art and science in sculpture; terra cotta developed at Massachusetts institute of technology. F. H. Norton and G. Demetrios. il Tech R 44:120-3+ Ja '42
Making better terra cotta products with applied laboratory control; American terra cotta corp. il Brick & Clay Rec 99:27-8+ D '41
New terra cotta chimney uses 80% less metal. diag Brick & Clay Rec 101:26 Jl '42

TERRAZZO
New architectural beauty for floors; Tenite strips for terrazzo floors. il Mod Plastics 19:31-2 D '41
Specification standards for government work; tile and terrazzo. H. R. Sleeper. Arch Rec 91:63 Mr '42

TERRE HAUTE

Sewerage

Terre Haute constructs sewer by tunneling to avoid inconvenience to the public. R. E. Gibbons. il Pub Works 73:15-16+ Je '42

TERRESTRIAL magnetism. See Magnetism, Terrestrial

TESTIMONIALS. See Radio advertising—Testimonials

TESTING
Materials testing and heat treating. W. A. Clark and B. Plehn. 132p bibliog(p125-7) $1.75 Harper '42
Standard samples check laboratory reliability; issued by the National bureau of standards. H. A. Bright. il Ind Stand 12:268-9 O '41
Testing in modern industry. 105p bibliog(p98-9) pa 50c United States testing co, 1415 Park av, Hoboken, N.J. '42
See also
Electric testing
Engineering laboratories
Gas testing
Laboratories
Magnetic testing
Strains and stresses
Strength of materials
Testing laboratories
Testing machines
Textile testing
also subdivision Testing under various subjects, e.g.
Cast iron
Cement
Coal
Corrosion and anticorrosives
Hardness
Insulation (electric)
Metals
Paper
Steel
Tool steel
also American society for testing materials

TESTING laboratories
Farrel-Birmingham opens new testing laboratory. il India Rubber W 105:366+ Ja '42; Chem & Eng N 20:58 Ja 10 '42; Rubber Age 50:270 Ja '42

Cold rooms

Cummins engine co.; new research laboratory with refrigerated room for cold start tests. il Heat & Ven 38:41-2 D '41
Douglas aircraft company, inc. builds cold room for testing airplane parts. Heat & Ven 39:100 Ja '42
Insulation for low temperature test rooms; using the Schmidt diagram for determining heat flow. L. C. Leslie. Refrig Eng 44:299-301 N '42

Directories

Directory of commercial testing and college research laboratories. A. E. Rapuzzi, comp. U S Nat Bur Stand Misc Pub M171:1-63; pa 15c Supt. of doc. '42

TESTING machines
Airscrew pitch-correcting machine. il Engineering 154:166 Ag 28 '42
Apparatus for measuring the shear strength of soils. H. Q. Golder. il diags Engineering 153:501-3 Je 26 '42
Automatic autographic wear-measuring device. C. W. Muhlenbruch. il diag Mech Eng 64:289-90 Ap '42
Bearing strength; plastics and plywood. J. Bond. il Mod Plastics 19:70-3+ Jl '42
Behavior of plastics under vibrations; mild steel, duralumin, laminated plastics, polymethyl methacrylate. B. J. Lazan. bibliog il diags Mod Plastics 20:83-8+ N '42
Compression testing rubber compounds used in submarine cables. F. L. Downs. il India Rubber W 106:39-42 Ap '42
Concentricity checking machine for airplane rocker arm bearings. J. R. Drummond. il diags Instruments 15:104-5 Ap '42
Dynamic testing in Germany. H. N. Cox. il diags Inst Mech Eng J & Proc 146:Proc 39-41 N '41
Effect of type of testing machine on fatigue test results. il diags Am Soc T M Proc 41:133-50; Discussion. 151-3 '41
Method for the testing of adhesive tape. W. C. Geer and W. B. Wescott. bibliog il diags Am Soc T M Proc 41:1217-30 '41; Same. Rubber Age 49:241-7 Jl '41
New high-temperature fatigue machine. W. P. Welch and W. A. Wilson. il diags Am Soc T M Proc 41:733-45 '41; Abstract. Steel 109:62-3 N 24 '41; Discussion. Am Soc T M Proc 41:746 '41
Parts tester ups output. il Aviation 41:141 S '42
Performance tests for greases. R. C. Adams and H. E. Patten. il diags Am Soc T M Proc 41:1095-1104 '41; Same abr. Nat Pet N 33:R218-21 Jl 9 '41; Same cond. Power Pl Eng 46:82-3 Mr '42; Discussion. Am Soc T M Proc 41:1105-7 '41
Practical corrosion tester for chemical engineers. M. H. Heeren. il diag Chem & Met Eng 49:126-7 F '42; Same. Chem Age (Lond) 46:237-8 My 2 '42

TESTING machines—*Continued*

Resistance to cavitation erosion; vibratory method of testing metals. R. Beeching. il diags Engineering 153:238-40, 278-80 Mr 20, Ap 3 '42

Standardized testing machines made by mass production methods. F. G. Tatnall. Metal Prog 42:688 O '42

Testing machine and transport stand for variable-pitch airscrews. il Engineering 154: 285, 290 O 9 '42

Testing material in the resonance range. R. K. Bernhard. il diags Am Soc T M Proc 41: 747-57 '41

Testing small springs. J. F. Cavanagh. il diags Product Eng 13:520 S '42

Tyre testing; some interesting equipment employed in America. il Automobile Eng 32:269-71 Jl '42

See also

Dynamometers

Gear testing machines

Textile testing machines

TESTS, Ability. See Ability tests

TESTS of significance. See Significant difference (statistics)

TETANUS

Effects of anti-microbial substances of biological origin upon bacterial toxins. E. Neter. Science 96:209-10 Ag 28 '42

TETON mountains

Pre-Cambrian metasediments in Grand Teton national park, Wyoming. L. Horberg and F. Fryxell. maps Am J Sci 240:385-93, pl 1-2 Je '42

TETRACHLOROETHYLENE

Extraction of oil from a porous solid. D. F. Boucher, J. C. Brier and J. O. Osburn. bibliog diags Am Inst Chem Eng Trans 38:967-92; Discussion. 992-3 O '42

Reactions of bromine with carbon tetrachloride and tetrachloroethylene following neutron capture and isomeric nuclear transition. E. G. Bohlman and J. E. Willard. bibliog Am Chem Soc J 64:1342-6 Je '42

TETRACHLOROMETHANE. See Carbon tetrachloride

TETRACHLOROQUINONE

Growth stimulation of peas by tetrachloro-para-benzoquinone, a fungicidal seed protectant. G. L. McNew. Science 96:118-19 Jl 31 '42

TETRADECYLAMINE

Studies on high molecular weight aliphatic amines and their salts; electrical conductivities of aqueous solutions of the hydrochlorides of octyl-, decyl-, tetradecyl- and hexadecylamines. A. W. Ralston and C. W. Hoerr. bibliog Am Chem Soc J 64:772-6 Ap '42

TETRAETHYLAMMONIUM hydroxide

Polarographic determination of potassium, sodium, and lithium. I. Zlotowski and I. M. Kolthoff. bibliog Ind & Eng Chem Anal ed 14:473-7 Je 15 '42

TETRAETHYL lead

Cause, effect of ethyl fluid allocation. G. Edgar. Nat Pet N 33:18, 42-4 D 10 '41

Civilian gasolines likely to be cut in octane rating. W. T. Ziegenhain. Oil & Gas J 40: 18-19 D 4 '41

Commercial vehicles and lower-octane fuels; from the fleet operator's viewpoint. F. L. Faulkner. S A E J 50:132-6 Ap '42

Ethyl gasoline corporation allocates tetraethyl fluid. Nat Pet N 33:5+ N 19 '41

Influence of sulfur compounds on octane number and lead susceptibility of gasolines. J. G. Ryan. bibliog Ind & Eng Chem 34:824-32 Jl '42; Same. Nat Pet N 34 pt 2:R234-9, R286-8 Jl 29, Ag 26 '42

Lead decision holds key to octane ratings. Nat Pet N 33:16-18 D 10 '41

Prediction of octane numbers and lead susceptibilities of gasoline blends. D. Eastman. Ind & Eng Chem 33:1555-60 D '41

Refiners to get more lead while Ethyl seeks supplies. Nat Pet N 33:19 D 17 '41

TETRAHYDROCANNABINOL

Cannabis indica; further analogues of tetrahydrocannabinol. P. B. Russell and others. Chem Soc J p826-9 D '41

Cannabis indica; the isolation of 3′ : 4′ : 5′ : 6′-tetrahydrodibenzopyran derivatives from pulegone-orcinol and pulegone-olivetol condensation products; synthesis of *d*-tetrahydrocannabinol. G. Leaf, A. R. Todd and S. Wilkinson. Chem Soc J p185-8 Mr '42

Isolation of a physiologically active tetrahydrocannabinol from cannabis sativa resin. H. J. Wollner and others. bibliog Am Chem Soc J 64:26-9 Ja '42

Optically active synthetic tetrahydrocannabinols; *d*- and *l*-1-hydroxy-3-*n*-amyl-6,9,9-trimethyl-7,8,9,10-tetrahydro-6-dibenzopyrans. R. Adams, C. M. Smith and S. Loewe. bibliog Am Chem Soc J 64:2087-9 S '42

Some analogs of synthetic tetrahydrocannabinol. G. A. Alles, R. N. Icke and G. A. Feigen. bibliog Am Chem Soc J 64:2031-5 S '42

Tetrahydrocannabinol homologs and analogs with marihuana activity. R. Adams and others. Am Chem Soc J 64:694-7 Mr '42

TETRAHYDROCHLORIDES

Amino-derivatives of pentaerythritol; the thermal decomposition of the tetrahydrochlorides of tetrakismethylaminomethylmethane and of tetrakisdimethylaminomethylmethane. G. M. Gibson and others. Chem Soc J p163-75 F '42

TETRAHYDROFURFURYL alcohol

Optical rotatory dispersion of (-)tetrahydrofurfuryl alcohol. R. S. Airs and others. Chem Soc J p531-2 S '42

TETRAHYDROISOOXAZINE

*Iso*oxazolidine and tetrahydro-1 : 2-*iso*oxazine. H. King. Chem Soc J p432-3 Jl '42

TETRAHYDROPHTHALIC anhydride

Synthesis of 4,10-ace-1,2-benzanthracene utilizing Δ^4-tetrahydrophthalic anhydride. L. F. Fieser and F. C. Novello. bibliog Am Chem Soc J 64:802-9 Ap '42

TETRAHYDROPYRAN

Hydantoins containing a tetrahydropyranyl substituent. H. R. Henze and R. L. McKee. bibliog Am Chem Soc J 64:1672-4 Jl '42

TETRAHYDROPYRETHROLONE

Observations on the absorption spectra of terpenoid compounds; five-atom-ring unsaturated ketones. A. E. Gillam and T. F. West. Chem Soc J p486-8 Ag '42

TETRAHYDROQUINOLINE

α,β-Unsaturated aminoketones; reaction of pyrrolidine and tetrahydroquinoline with bromine derivatives of benzalacetophenone. N. H. Cromwell. Am Chem Soc J 63:2984-6 N '41

TETRAHYDROTHIOPYRAN

Addition compounds of tetrahydrothiopyran. H. J. Worth and H. M. Haendler. bibliog Am Chem Soc J 64:1232-3 My '42

TETRAHYDROXYBENZENE

Derivatives of 1 : 2 : 3 : 4-tetrahydroxybenzene; the synthesis of fumigatin. W. Baker and H. Raistrick. Chem Soc J p670-2 O '41

TETRAHYDROXYQUINONE

Improved semimicrodetermination of sulfur in organic materials; peroxide-carbon fusion followed by a titration using tetrahydroxyquinone indicator. J. F. Mahoney and J. H. Michell. bibliog Ind & Eng Chem Anal ed 14:97-8 Ja 15 '42

Preparation of tetrahydroxyquinone and rhodizonic acid salts from the product of the oxidation of inositol with nitric acid. P. W. Preisler and L. Berger. bibliog Am Chem Soc J 64:67-9 Ja '42

Volumetric determination of sulfates; tetrahydroxyquinone as an external indicator. S. W. Lee and others. Ind & Eng Chem Anal ed 14:839-40 O 15 '42

TETRAMETHYLGLUCOSE
Transformation of tetramethylglucoseen-1,2 into 5-(methoxymethyl)-2-furaldehyde. M. L. Wolfrom, E. G. Wallace and E. A. Metcalf. bibliog Am Chem Soc J 64:265-9 F '42

TETRAPHENYLCYCLOPENTADIENONE
Reactions with tetraphenylcyclopentadienone; condensation with cyclic 1,3-diene systems. O. Grummitt, R. S. Klopper and C. W. Blenkhorn. bibliog Am Chem Soc J 64:604-7 Mr '42

TETRAPHENYLHYDRAZINE
Apparent energy of the N-N bond as calculated from heats of combustion. C. M. Anderson and E. C. Gilbert. bibliog Am Chem Soc J 64:2369-72 O '42

Dissociation of tetraphenylhydrazine and its derivatives. G. N. Lewis and D. Lipkin. Am Chem Soc J 63:3232-3 N '41

TETRONIC acid
Dissociation constant, dipole moment and structure of α-nitrotetronic acid. W. D. Kumler. Am Chem Soc J 64:1948-50 Ag '42

TETRYL
Cases of poisoning in war plants. Science 96:sup10 S 18 '42

TEUTOPOLIS, Illinois

Water supply

High-speed water softening process makes its municipal debut; Spiractor installation. A. Van Praag, jr. flow diag il Eng N 129:442-4 S 24 '42

TEXAS
See also
Gas, Natural—Texas
Geology—Texas
Mines and mineral resources—Texas
Petroleum—Texas
Petroleum industry and trade—Texas
Trade unions—Texas

Antiquities

Transparent calcium incrustation over rock paintings. C. N. Ray. Science 96:426-7 N 6 '42

Industries and resources

Texas is abundantly endowed with cheap fuel and variety of minerals. R. L. Dabney. map Chem & Met Eng 49:101-3 Je '42

TEXAS and Pacific railway
Bonds at low levels. A. Jansen. Barron's 22:15 Ag 24 '42

TEXAS company (Delaware)
Annual report. Comm & Fin Chr 155:1222 Mr 23 '42

Thumbnail stock appraisal. Mag of Wall St 69:263 D 13 '41

Who's who in refining. Oil & Gas J 41:66 Je 4 '42

TEXCOCO, Lake
Developments in Lake Texcoco; Caracol process produces salt and other sodium compounds, potash, etc. A. R. Gerstel. il Chem & Eng N 20:1300-2 O 25 '42

TEXTBOOKS
Manual for analyzing and selecting textbooks. J. A. Clement. 119p bibliog(p118-19) $2 Garrard press, Champaign, Ill. '42

TEXTILE analysis
Chemical analysis of fibre mixtures. F. Howlett, M. J. Morley and A. R. Urquhart. bibliog(54 references) Textile Inst J 33:T75-104 Je '42

Determination of Aralac. Textile World 92:136 Ap '42

Determination of water-immiscible organic solvents volatile with steam in sulfonated (sulfated) oils; report no. 8 of the subcommittee on sulfonated oils. diags Am Dyestuff Rep 31:64-70 F 2 '42

Infra-red rays and their application to problems of the textile colorist. J. Grant. bibliog diag Textile Col 64:213-15 My '42

Methods and practice of fiber identification. J. M. Preston. Am Dyestuff Rep 31:149-50+ Mr 30 '42

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog(80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

See also
Aralac—Analysis
Cotton—Analysis
Dye analysis
Jute—Analysis
Textile fabrics—Analysis
Wool—Analysis

TEXTILE chemicals
Alkyl esters of phosphoric acid; application of neutralized alkyl phosphates; spinning agents, printing pastes, flameproofing. C. A. Hochwalt and others. Ind & Eng Chem 34:22-4 Ja '42

Changes in technique shaped by war. Textile World 92:66 F '42

Chemical stratagems in waterproofing processes. Textile Col 64:95-8 F '42

Chemical treatment of textiles; war-time dressing and finishing practice. A. E. Williams. Chem Age (Lond) 47:231-2 S 5 '42

Conserving materials. P. K. McKenney and others. Am Dyestuff Rep 31:179-81 Ap 13 '42

Dyestuffs, textile and leather chemicals. Published in weekly numbers of Oil, paint and drug reporter

Formaldehyde, its increasing importance in textile processing. Textile Col 64:86+ F '42

Glycerine in newer textile developments. G. Leffingwell and M. A. Lesser. bibliog Rayon 23:550-1 S '42

Lactic acid in textile and laundry work. G. S. Ranshaw. Textile Col 64:356-9 Jl '42

New dyes and chemicals. Published in monthly numbers of Textile world

Nitrite of soda: a corner-stone of textile chemistry. J. Warwicke. Textile Col 64:407-9 Ag '42

Organic solvents; polyhydric alcohols; amine compounds; chlorethylenes. S. Yates. Textile Col 64:199-201, 231-3 Ap-My '42

Polyhydric alcohol esters in our war effort; textiles. J. W. Daum. Chem Ind 51:523 O '42

Purifying vegetable fibers. C. H. S. Tupholme. Textile Col 64:347 Jl '42

Search for substitutes grows more intense in dye and chemical field. Textile World 92:58 Ja '42

Technical notes on the cellulose ethers. H. Peters. Textile Col 64:16-18 Ja '42

Tertiary base textile softeners. A. J. Hall. Textile Col 64:224-6 My '42

Textile chemical specialty guide for spinners, weavers, knitters, throwsters, dyers, printers and finishers of all textile yarns and materials. 336p $2.50 Rayon pub. corp, New York '40

Textile chemist meets national defense emergency. Am Dyestuff Rep 30:690-5+ D 8 '41

Textile war manual; how to meet shortages of fibers, chemicals, and metals. Textile World 92:82-3 F '42

See also
Bleaching materials
Dyes and dyeing
Mothproofing preparations
Starch
Textile oils
Wetting agents

TEXTILE chemistry
Reminiscences of textile chemistry. G. Ullmann. Textile Col 64:7-11, 48 Ja '42

Textile chemistry in knitting full-fashioned hosiery. V. A. Schiffer. Rayon 23:209-11 Ap '42

See also
Bleaching
Bleaching materials
Dyes and dyeing—Chemistry
Mercerizing
Nylon
Resinous products—Textile uses
Sizing (textiles)
Textile analysis
Textile finishing
Textile oils
Wetting agents
Wool—Chemistry

TEXTILE chemists and colorists, American association of. See American association of textile chemists and colorists

TEXTILE design

Adding variety to pique fabrics. T. R. Hart. il Textile World 92:70-1 Jl '42

College girls' victory fabrics: style show sponsored by textile school of North Carolina state college. T. R. Hart. il Textile World 92:75 Ap '42

Design fashion and the textile industry; abstract. C. Belle. Textile Inst J 32:P102-4 O '41

Hunters and hunting scenes on figured textiles. H. Wescher. Textile Col 64:125-8 Mr '42

Interesting design possibilities; fabrics produced on hand-loom are duplicated on power machines. F. W. Sterling. il diags Textile World 92:100 Ag; 92-3 O '42

New mesh designs for cotton hosiery. il Rayon 23:404 Jl '42

Résumé of burn out printing methods. T. Ashley. Textile Col 63:621-3 N '41

See also

Rayon printing
Textile printing
Weaving

TEXTILE drying

Gas-generated infra red rays in textile drying. Rayon 22:719-20 D '41

New infra-red rays for drying textiles. Rayon 22:688 N '41

Radiant energy drying. L. I. Bamberger and others. Am Dyestuff Rep 31:178-9 Ap 13 '42

See also

Drying apparatus—Textiles
Rayon drying

TEXTILE education

Textile education. E. Heard. Am Dyestuff Rep 31:80-6, 90-1 F 16 '42; Same abr. Rayon 23:75-7, 167-8, 295-6 F-Mr, My '42

See also

Textile schools

TEXTILE fabrics

Black-out cloths. il Textile World 92:56-7 Ja '42

Blending textile fibers to get new and better fabrics. A. C. Whitford. Rayon 23:609-11 O '42

Changes in technique shaped by war. il Textile World 92:64-6 F '42

Dame Fashion must bow to Mars. M. B. Clark. il Textile World 92:66-7 My '42

Fundamentals of textiles, a workbook. E. A. Jacobsen and H. E. McCullough. 2d ed 175p pa $1.75 Wiley '41

Man is a weaver. E. C. Baity. 334p bibliog(p324-6) $2.50 Viking press '42

Story of textiles. M. Evans. 64p pa 44c Little '42

Tensylon is a new textile; yarn-like rubber hydrochloride product; raw material is Pliofilm. il Textile World 91:89 N '41

Textile fabrics and their selection. I. B. Wingate. rev ed 624p bibliog(p601-8) $5.35; school ed $4 Prentice-Hall '42

Vinylidene chloride yarns now woven into goods; Velon, originated from Saran. H. R. Mauersberger. il Rayon 23:615-16 O '42

See also

Airplane fabrics
Army fabrics
Automobile fabrics
Bleaching
Carpets
Cleaning
Coating fabrics
Cotton fabrics
Covert cloth
Cravenette
Crepe
Dress goods
Duck (textile)
Felt
Fireproofing of textiles
Knit goods
Lining fabrics
Men's suiting fabrics
Mildew
Net fabrics
Paper textiles
Parachute fabrics
Raincoats
Rayon fabrics
Rubberized fabrics
Rugs
Seersucker
Sizing (textiles)
Textile fibers
Textile finishing
Textile industry
Textile research
Tire fabrics
Umbrella fabrics
Upholstery
Wall fabrics
Waterproofing of textiles
Woolen and worsted fabrics

Analysis

Estimation of copper in mildewproofed fabrics. B. J. Brown. Textile World 92:92 S '42

Sulphuric acid carbonization method adapted for mixed-fabric analysis. Textile Col 63:670+ D '41

Technology of fabric analysis. il Rayon 22:538-40; 23:158-9 S '41, Mr '42

Antiseptic treatment

Permanent antisepsis of fabrics is a definite possibility. A. S. DuBois. Rayon 23:618-19 O '42

Sanitization of textiles. L. H. James. il Textile World 92:86-7 Je '42

Bibliography

Abstracts. Published in monthly numbers of the Journal of the Textile institute

Review of periodicals. Published in monthly numbers of Rayon textile monthly

Cleaning

See Cleaning compositions; Laundry

Coating

Recent uses for luminescent pigments. R. W. Joeger. Am Dyestuff Rep 31:183-5, 190 Ap 13 '42

Right for rain. il Mod Plastics 19:40-3+ Jl '42

See also

Pyroxylin coated fabrics
Textile fabrics, Varnished
Textile fibers—Coating

Defects

Imperfections in woven fabrics. T. Nelson. il Textile World 92:72-3 Ag '42

Dictionaries

Fabrics. G. G. Denny. 5th ed rev 202p bibliog(p201-2) $2.50 Lippincott '42

Folding

Flexural fatigue of textiles. H. F. Schiefer and P. M. Boyland. J Research Nat Bur Stand 29:69-71, pl 1-3 Jl '42; Same. Rayon 23:662-3 N '42

Moisture absorption

Sorbtex process. Textile Col 63:668 D '41

Water absorption by towels. P. Larose. diags Am Dyestuff Rep 31:105-8+ Mr 2 '42

Permeability

Air permeability instrument. il Textile World 92:98-9 My '42

Fabric permeameter. il R Sci Instr 12:557 N '41

Improved instrument for measuring the air permeability of fabrics. H. F. Schiefer and P. M. Boyland. pls diag J Research Nat Bur Stand 28:637-42 My '42; Excerpt. Rayon 23:364 Je '42

Pliability

Planoflex; a simple device for evaluating the pliability of fabrics. E. C. Dreby. bibliog il Am Dyestuff Rep 30:651-4, 665-6 N 24 '41; Same. J Research Nat Bur Stand 27: 469-77, pl 1-2 N '41

Prices

Addenda to Textile war manual; price ceilings and amendments by OPA. Textile World 92:68-9 Jl '42

Maximum price regulation no. 127 finished piece goods; textile fabrics: cotton, wool, silk, synthetics and admixtures. Rayon 23: 444-51 Ag '42

On the price-ceiling front. Textile World 92: 54 Ja '42

Protection

Mildewproofing agent; Protela SB. Textile World 92:88 Ag '42

Mildewproofing army fabrics; copper napthenate process. il Textile World 92:101 F '42

TEXTILE fabrics—Protection—*Continued*

Mildewproofing military fabrics; phenyl mercuric acetate effective. W. S. Marsh and A. E. Duske. bibliog il Textile World 92:58-60 Ag '42

Mildewproofing of military fabrics. C. W. Hock and M. Harris. bibliog Textile Col 64:401-3 Ag '42; Same. Rayon 23:670, 711-12 N-D '42

Rotproofing of fabrics; three new British standards. Paint Oil & Chem R 104:26 Mr 26 '42

Rotproofing of sandbags. E. F. Armstrong. il Chem & Ind 60:668-74 S 13 '41; Abstract. Textile Col 64:196-8 Ap '42

Rotproofing treatment; abstract. Soap & San Chem 18:61 Ja '42

Some modern war-time finishes. C. E. Salkeld. Soc Dyers & Col J 58:28-31 F '42; Same. Textile Col 64:245-9 My '42

Standards for rot-proofing cordage and jute hessian or canvas. Textile Col 64:35 Ja '42

Shrinkage

See also

Cotton fabrics—Shrinkage
Rayon fabrics—Shrinkage
Shrinkage of textiles
Wool, Unshrinkable
Woolen and worsted fabrics—Shrinkage

Specifications

Textile war manual; how to meet government requirements for textiles. Textile World 92:72-3 F '42

Standards

Textile architecture. F. C. Toy. Textile Inst J 33:P6-8 F '42

Strength

Cloth strength testing; reports by members of general technical committee A (physical testing) on some aspects of cloth strength testing. A. W. Bayes and others. diag Textile Inst J 33:S7-39 Je '42

Effect of yarn elongations on parachute fabric strength. W. J. Hamburger. diag Rayon 23:151-3, 291-2, 332-4 Mr, My-Je '42

Terminology

Definitions of textile fabrics for the distributing trades. Soc Dyers & Col J 57:340-2; 58:74 N '41, Ap '42

Testing

Cloth strength testing; reports by members of general technical committee A (physical testing) on some aspects of cloth strength testing. A. W. Bayes and others. diag Textile Inst J 33:S7-39 Je '42

Flexural fatigue of textiles. H. F. Schiefer and P. M. Boyland. J Research Nat Bur Stand 29:69-71, pl 1-3 Jl '42; Same. Rayon 23:662-3 N '42

New design of cloth wearing tester. J. G. Martindale. diag 2 pls Textile Inst J 33:T151-8 S '42

Physical methods for evaluating the hand of fabrics and for determining the effects of certain textile finishing processes; planoflex, friction-meter and compression-meter. E. C. Dreby. bibliog il diags Am Dyestuff Rep 31:497-504 O 12 '42

Planoflex; a simple device for evaluating the pliability of fabrics. E. C. Dreby. bibliog il Am Dyestuff Rep 30:651-4, 665-6 N 24 '41; Same. J Research Nat Bur Stand 27:469-77, pl 1-2 N '41

Serviceability of a dish towel fabric; rayon-cotton-linen mixture. M. B. Hays and R. E. Rogers. bibliog Rayon 23:289-90 My '42

Testing in modern industry. F. T. Mosedale. Textile Col 64:287+ Je '42

Woven textile fabrics; testing and reporting. 3d ed U S Nat Bur Stand Commercial Standard CS59-41:1-34 '41; Same. Textile Col 63:675-9, 688-94 D '41

See also

Cotton fabrics—Testing
Rayon fabrics—Testing
Textile fabrics—Wear

Transportation

Are you packing them right? new problems in packaging textiles for shipment. il Textile World 92:81-3 My '42

Uses

Fabric house; Roll-fab; pipe and fabric construction of 194x. il diags plans Arch Forum 77:87-9 S '42

War uses

Some modern war-time finishes; window replacement fabrics. C. E. Salkeld. Soc Dyers & Col J 58:28-31 F '42; Same. Textile Col 64:245-9 My '42

Water resistance

Fabrics for military purposes; water repellent olive drab cotton fabric, for use as material for mackinaws. Textile World 92:66 Je '42

Wear

Army times wear and tear to measure life of uniform. Textile Col 64:128 Mr '42

New design of cloth wearing tester. J. G. Martindale. diag 2 pls Textile Inst J 33:T151-8 S '42

Serviceability of a dish towel fabric; rayon-cotton-linen mixture. M. B. Hays and R. E. Rogers. bibliog Rayon 23:289-90 My '42

TEXTILE fabrics, Luminescent

Recent uses for luminescent pigments. R. W. Joeger. Am Dyestuff Rep 31:183-5, 190 Ap 13 '42

Textiles that glow in the dark. il Textile World 92:71 O '42

TEXTILE fabrics, Varnished

Testing of varnishes for use in conjunction with anti-scatter fabrics. H. M. Llewellyn. Soc Chem Ind J 61:60-3 Ap '42

TEXTILE fibers

American fibers, another material binding the Americas together. S. L. Bull. il For Comm W 6:6-7, 31-2 F 7 '42

American republics to grow more fibers. For Comm W 8:33 Ag 8 '42

Annual fiber consumption, 1941. Textile Col 64:123 Mr '42

Ecuador cabuya fiber. Textile Col 64:90 F '42

Fibers and saponin from the species of furcraea. C. D. Mell. Textile Col 64:271-2 Je '42

Fibers grown in western hemisphere. Textile World 92:71 Ag '42

Fibers of Brazil. C. E. Nabuco de Araujo, jr. il Chem & Eng N 20:1296-9 O 25 '42

Latest developments in milkweed floss; B. Berkman promotes cultivation in Michigan; seeds, fibers and floss utilized. L. Stouffer. il Rayon 23:603-4 O '42

Malva blanca; new hemisphere substitute for jute. For Comm W 9:26 N 7 '42

Mexico's ixtle. Textile Col 64:355 Jl '42

Redwood textile; fiber from bark now being sold by Pacific lumber co. for mixing with wool. il Business Week p55-6 Ja 17 '42

Review of the Cuban textile fiber situation. M. L. Blanco. il Rayon 23:596-7 O '42

Sweden cultivates dinga. For Comm W 8:32 Ag 1 '42

Textile fiber atlas; a collection of photomicrographs of common textile fibers. W. Von Bergen and W. Krauss. 38p bibliog(pi-vi) pa $3 Am. wool handbook co, 303 5th av, New York '42

Textile fibers and their use. K. P. Hess. 3d ed rev 530p $3.50 Lippincott '41

Textile fibers from vegetable proteins. K. Wardle. Textile Col 64:423 S '42

Textile fibers used in eastern aboriginal North America. A. C. Whitford. 22p pa 25c Am. museum of natural history, New York '41

Textile war manual; how to meet shortages of fibers, chemicals, and metals. Textile World 92:82-3 F '42

See also

Bast fibers
Cotton fibers
Flax
Hemp
Jute
Manila hemp
Mauritius hemp
Plastic coated fibers
Ramie
Rayon fibers
Silk
Wool

TEXTILE fibers—*Continued*

Bibliography

Abstracts. Published in monthly numbers of the Journal of the Textile institute

Blending

Blending textile fibers to get new and better fabrics. A. C. Whitford. Rayon 23:609-11 O '42

Prediction and control of colored fiber blends by optical means. Am Dyestuff Rep 30:698-700 D 8 '41

Coating

Coating extruded fibers. il Mod Plastics 19: 55+ My '42

See also

Textile fabrics—Coating

Identification

Fiber identification stain. H. L. Davis and H. J. Rynkiewicz. Ind & Eng Chem Anal ed 14:472 Je 15 '42

Methods and practice of fiber identification. J. M. Preston. Am Dyestuff Rep 31:149-50+ Mr 30 '42

Microscopy of textile fibers and their identification. W. Krauss. il Rayon 23:599-602 O '42

Synthetic fiber identification. il Textile World 92:102-3 F '42; Same. Textile Col 64:60-1 F '42

Moisture content

Tentative textile standard no. 4, 1940; moisture in relation to textile materials. Textile Inst J 33:S3-6 Je '42

TEXTILE fibers, Synthetic

Alginic acid textile fibers. C. H. S. Tupholme. Chem & Eng N 20:883-4 Jl 10 '42

Beetles and moths will attack all protein fibers. il Rayon 23:549 S '42

Continuous cellophane bubble yarn; Bubbifil. il Rayon 23:585 O '42.

Fabrics of the future. il Mod Plastics 19:37-9 Ag '42

From soy bean to textile fiber; process as carried out in plant of Ford motor company; illustrations. Textile World 92:79 Je '42

High polymeric chemistry of fibers made by Carothers. H. Boxser. diags Am Dyestuff Rep 31:373-5+ Ag 3 '42

How much fiber, and for what? role synthetics can play on war and home fronts. D. G. Woolf. Textile World 92:100-1 S '42

Internal structure of synthetic fibers and its influence on their physical properties. E. H. Freund and H. Mark. bibliog diags Rayon 23:515-17, 605-6 S-O '42

New fiber blends. Barron's 22:5 Ap 6 '42

New textile fibers. L. P. Rendell. Textile Col 63:695-6 D '41

Rayon and synthetic fibers, 1941. Chem & Met Eng 49:97+ F '42

Scope of Rayolanda X as a supplementary fibre; admixture with Fibro and wool. H. A. Thomas. bibliog Soc Dyers & Col J 58: 197-202; Discussion. 202-3 O '42

Soybean fiber now being produced on limited scale. Sci Am 166:176 Ap '42

Soybean protein fibers. R. A. Boyer. il Mod Plastics 19:48-9+ F '42

Substitutes for rubber and silk; Colonial V plastics. E. Engel and J. Steel. Aero Digest 40:212, 214 My '42

Synthetic fiber identification. il Textile World 92:102-3 F '42; Same. Textile Col 64:60-1 F '42

Synthetic fibres; production, 1939-1941; tabulation. Economist 143:119-20 Jl 25 '42

Textiles from casein protein fiber. il Mod Plastics 19:38-9+ D '41

See also

Aralac
Nylon
Rayolanda
Rayon
Vinyon
Wool, Artificial

TEXTILE finishing

Anti-crease finish. Textile Col 64:258 My '42

Cation active finishing agents; discussion. Am Dyestuff Rep 31:63+ F 2 '42

Cause and prevention of rigs in milling. W. Bradley. Textile Inst J 33:P71-3; Discussion. P73-4 My '42

Cellulose ether and textile applications. J. A. Clark. Am Dyestuff Rep 31:110-14 Mr 2 '42

Chemical treatment of textiles; war-time dressing and finishing practice. A. E. Williams. Chem Age (Lond) 47:231-2 S 5 '42

Cold process weighting of bleached cotton underwear and similar fabrics; example of woolen knit goods. Textile Col 63:699-700 D '41

Corrosion-resisting materials in bleaching, dyeing and finishing industry. W. W. Chase. Textile World 92:72-4 Ja '42

Evaluating starches for textile purposes. W. T. Schreiber and W. L. Stafford. il Ind & Eng Chem Anal ed 14:227-31 Mr 15 '42

Making fabrics crease resistant and water-repellent, use the lower alkyl ethers of dimethylol urea. A. J. Hall. Textile Col 64: 173-4 Ap '42

Need for control in smaller dyeing and finishing plants. A. C. Tate. il Textile World 91:82-3 D '41

Permanent finishes. Textile World 92:82 Ag '42

Recent British developments in rubber for textiles. C. H. S. Tupholme. Textile Col 64:475-8 O '42

Recent improvements in finishing machinery drives. C. H. S. Tupholme. Am Dyestuff Rep 31:438-9 Ag 31 '42

Saving steam in finishing. P. L. Geiringer. Textile World 92:84-5 Mr '42

Some modern war-time finishes. C. E. Salkeld. Soc Dyers & Col J 58:28-31 F '42; Same. Textile Col 64:245-9 My '42

Sulphamic acid; a promising new chemical for textile processing. Textile Col 64:342+ Jl '42

Technical notes on the cellulose ethers. H. Peters. Textile Col 64:16-18 Ja '42

See also

Bleaching
Cotton finishing
Dyes and dyeing
Mercerizing
Mothproofing preparations
Rayon finishing
Sanforizing
Silk finishing
Sizing (textiles)
Textile oils
Waterproofing of textiles
Woolen and worsted finishing

Testing

Evaluation of finishing agents for sanforizing. diags Am Dyestuff Rep 30:679-81 D 8 '41

Physical methods for evaluating the hand of fabrics and for determining the effects of certain textile finishing processes; planoflex, friction-meter and compression-meter. E. C. Dreby. bibliog il diags Am Dyestuff Rep 31:497-504 O 12 '42

TEXTILE industry

Inventory trends in textile production and distribution; an appraisal of experience during the 1930's. H. S. Davis. 70p pa 50c Textile foundation, Industrial bldg, Nat. bur. of standards, Washington, D.C. '41

News by commodities. Published in Foreign commerce weekly

Save all scrap to win this scrap! Salvage committee of the textile spinning, weaving and finishing industries. H. R. Mauersberger. Rayon 23:552-3 S '42

Textiles in war. F. M. Steadman. Am Dyestuff Rep 31:527-9 O 26 '42

See also

Bleaching
Carpets
Clothing trade
Cotton
Cotton manufacture
Cotton trade
Drying apparatus—Textiles
Dye industry
Dyes and dyeing
Flax
Hosiery
Indians of North America—Textile industry
Knit goods
Knitting
Linen
Mercerizing
Rayon
Rayon industry
Rugs
Silk trade
Sizing (textiles)

TEXTILE industry—*Continued*

Textile design
Textile fabrics
Textile fibers
Textile finishing
Textile machinery
Textile mills
Textile printing
Textile testing
Weaving
Wool trade
Woolen and worsted fabrics
Yarn

Advertising

Botany boosts ties by television. il Textile World 91:88 N '41
Sound film sells conservation; Pepperell's new movie. il Ptr Ink 200:20-1 Ag 21 '42

Bibliography

Abstracts. Published in monthly numbers of the Journal of the Textile institute
Abstracts from British and foreign journals and patents. Published in monthly numbers of Society of dyers and colourists journal
Free for the asking. Published in monthly numbers of Textile world
Review of periodicals. Published in monthly numbers of Rayon textile monthly

Finance

Capital expenditures in selected manufacturing industries. L. J. Chawner. Survey of Cur Business 21:22-3 D '41
Textile companies have large gross, but profit margins being trimmed. Barron's 22:12 Ag 3 '42
What of textiles today? J. C. Harrington. il Mag of Wall St 70:601-3, 614-15 S 19 '42

Securities

$35,000,000 debenture offering for Celanese corporation of America. Rayon 23:382 Jl '42

Statistics

Annual fiber consumption, 1941. Textile Col 64:123 Mr '42
1941 textile fiber consumption again breaks records due to war requirements. Comm & Fin Chr 155:668 F 12 '42
Rayon's transition to dominance in the fine goods textile field; charts and tabulation. Rayon 23:112a F '42
Textile activity at new high. Textile World 92:67 Ag '42
Textiles after four-year record; activity index for first-quarter. D. G. Woolf. Textile World 92:59 My '42
Textiles make it three in a row. D. G. Woolf. charts Textile World 92:59-61 F '42

Terminology

Textile terms and definitions. Textile Inst J 33:P51-2 My '42

See also
Textile fabrics—Dictionaries

Australia

News by commodities. For Comm W 6:24-5 Ja 10 '42

Brazil

Fibers of Brazil. C. E. Nabuco de Araujo, jr. il Chem & Eng N 20:1296-9 O 25 '42

Canada

Manual of the textile industry of Canada and Directory of the textile manufacturing industry of Canada. 14th ed 176p pa $1 Canadian textile journal pub. co, 1434 St Catherine st, W, Montreal '42
Textile industries of Canada, 1938 and 1939. 173p pa 50c Canada. Dominion bur. of statistics, Ottawa '42

Chile

Mounting importance of Chile's textile industry. For Comm W 7:33 My 23 '42

Cuba

Review of the Cuban textile fiber situation. M. L. Blanco. il Rayon 23:596-7 O '42

Ecuador

Ecuadoran rugs win wider markets. S. M. Hogarty. il For Comm W 8:9 S 19 '42

Finland

Trouble experienced in Finland. For Comm W 8:25 S 19 '42

Germany

German Europe; experiments in organization. Economist 142:470 Ap 4 '42

Great Britain

Apparel and textiles control. Economist 142:839-40 Je 13 '42
British concentration progress. G. Abrahamson. Textile World 92:62 Ja '42
Cutting the cloth; assisting the Board of trade in achieving economy. Economist 142:405 Mr 21 '42
Textile raw materials, 1941. Economist 142:sup24 Mr 14 '42
Utility cloths mean money's worth; English experience shows that fabrics of sub-standard quality will pass out. il Textile World 92:90 S '42

See also
Cotton trade—Great Britain
Wool trade—Great Britain

Italy

Italy's manufacture of standard cloth. For Comm W 9:30-1 O 3 '42

Mexico

Modern finishing plant in Mexico for rayon and cotton piece goods. A. R. Gerstel. il Rayon 23:327-8 Je '42
Progress in the Mexican textile situation. A. R. Gerstel. Rayon 23:556+ S '42
Textile mills in Mexico. Textile Col 64:330 Jl '42

South Africa

South African developments. For Comm W 7:33 My 23 '42

South America

South America's textile industries. S. L. Bull. For Comm W 5:8-9 D 20 '41

United States

Changes in technique shaped by war. il Textile World 92:64-6 F '42
Defense problems from the mill man's viewpoint. W. W. Chase. Am Dyestuff Rep 30:721-3 D 22 '41
Industry gets into wartime swing. B. Stubblefield. Textile World 92:60-1 My '42
Nervous textiles. Business Week p30-2 D 13 '41
No let-up in textile output yet. D. G. Woolf. Textile World 91:80 N '41
Priorities to allocations in the textile industry. Textile World 92:52-4 Ja '42
Textile mills making war adjustments. Barron's 22:12 F 23 '42
Textile war manual; information on government purchasing, specifications, priorities, prices, etc. Textile World 92:67-90 F; 61-4+ Mr; 67-9+ Ap; 63-4, 144 My; 63-5 Je; 67-9 Jl; 55-7 Ag; 85-6 S; 65-6+ O; 66-7 N; 65 D '42
Textiles will be converted too. D. G. Woolf. Textile World 92:65 Mr '42
Trends in the consumption of textiles. A. F. Hinrichs. Rayon 23:17-19, 72-3, 165-6 Ja-Mr '42
War: and its effect on textiles. D. G. Woolf. Textile World 91:65 D '41
War dominates outlook for 1942. Textile World 92:66-7 Ja '42
WPB tightens up its controls. B. Stubblefield. Textile World 92:63-4 O '42
What of textiles today? J. C. Harrington. il Mag of Wall St 70:601-3, 614-15 S 19 '42
Year end textile review. Rayon 23:9-10 Ja '42

See also
Cotton trade—United States
United States—Army—Textile requirements
Wool trade—United States

TEXTILE institute

Annual general meeting, 1942. Textile Inst J 33:P53-68 My '42

TEXTILE laboratories

Comparison of fabric tensile test results obtained in different laboratories. B. D. Porritt, J. R. Scott and W. H. Willott. Textile Inst J 33:S9-21 Je '42

To keep them flying; J. P. Stevens & company parachute fabric testing laboratory. H. R. Mauersberger. il Rayon 23:380-1 Jl '42

TEXTILE machinery

Changes in technique shaped by war. il Textile World 92:64-6 F '42

Corrosion-resisting materials in bleaching, dyeing and finishing industry. W. W. Chase. Textile World 92:72-4 Ja '42

Hermas brushing machine for textiles. il Rayon 23:55 Ja '42

Recent improvements in finishing machinery drives. C. H. S. Tupholme. Am Dyestuff Rep 31:438-9 Ag 31 '42

Redesign of tentering machine. il Rayon 22:739 D '41

Rodney Hunt fulling mill built on new principle. il Textile World 92:100 O '42; Rayon 23:629 O '42

Salvaging of repair parts and supplies; abstract. J. C. Cunningham. Textile World 92:96 Ja '42

Textile equipment news. Published in monthly numbers of Textile world

V-belts keep them rolling. il diags Rayon 22:691-3 N '41

Wood in the textile industry. E. Hardy. Textile Col 64:400 Ag '42

See also

Cotton machinery
Drying apparatus—Textiles
Dyeing machines
Electric driving—Textile mills
Hosiery machines
Knitting machines
Looms
Rayon machinery
Spinning machinery
Textile printing machines
Textile testing machines

Cleaning

Clean up your old equipment now! H. R. Mauersberger. il Rayon 23:396-8 Jl '42

Control

See also

Dyeing machines—Control

Design

Combining styling with engineered design; textile brushing machines. S. Broadwin. il diags Machine Design 14:66-8 F '42

Lubrication

All-out machine lubrication. R. Trautschold Rayon 23:485-7 Ag '42

Proper lubrication is step no. 1 in preparedness. Rayon 23:44-7 Ja '42

TEXTILE machinery industry

Earnings in the textile-machinery industry, 1942. H. R. Hosea and others. Monthly Labor R 55:107-16 Jl '42

Machine priorities head up in WPB. Textile World 92:62 My '42

New textile machinery rules; what the WPB order L-83 means. il Textile World 92:60-2+ Je '42

Use of textile machinery beyond trial period as acceptance. L. Childs. Rayon 23:52 Ja '42

Statistics

Machinery sales index soars. Textile World 92:61-3 F '42

Brazil

Textile machinery; importation subject to prior registration. For Comm W 8:12 Ag 29 '42

Great Britain

Engineering outlook. Engineering 153:244 Mr 27 '42

TEXTILE mills

Modern finishing plant in Mexico for rayon and cotton piece goods. A. R. Gerstel. il Rayon 23:327-8 Je '42

See also

Cotton mills
Dyehouses
Electric driving—Textile mills
Hosiery mills
Knitting mills
Rayon mills
Textile industry
Textile machinery
Textile workers
Water supply for textile mills
Woolen and worsted mills

Air conditioning

See also

Rayon mills—Air conditioning

Cleaning

Clean up your old equipment now! H. R. Mauersberger. il Rayon 23:396-8 Jl '42

Electric equipment

Electrical developments in 1941. il Textile World 92:107 F '42

Electrical developments in the textile industry during 1941. A. P. Mansfield. il Rayon 23:50-1 Ja '42

How to measure the width of moving webs or strips; photoelectric devices; production of textiles, paper, and strip metal. E. H. Alexander. il diags Gen Elec R 44:615-17 N '41

Mill-made chlorine bleach; electrolytic equipment. il Textile World 92:70 O '42

Switchgear transaction streamlined; diagrams and specifications used in purchasing. E. H. Beckert. Textile World 92:99 O '42

Upkeep of electrical equipment. R. H. Rogers. il diag Textile World 92:70-2 Mr; 80-1 Ap '42

Employees

See Textile workers

Equipment

Instrumentalize for production. il Rayon 23:171-5 Mr '42

Intra-plant transportation systems aid in solving war problems. F. A. Westbrook. il Textile World 92:74-6 Ag '42

Priorities: what to do about them. Textile World 91:62-4 D '41

Pumps, valves and fittings all may constitute bottlenecks; handling fluids for processing operations especially in manufacture of rayon and synthetic yarns. il Rayon 23:297-300 My '42

Scrap from textile mills; Union-Buffalo mills salvage program. il Textile World 92:91 S '42

Textile war manual; how to meet shortages of fibers, chemicals, and metals. Textile World 92:82-3 F '42

Textiles lead in instrumentation advance. R. Trautschold. il Rayon 23:623-5+ O '42

Wood in the textile industry. E. Hardy. Textile Col 64:400, 455 Ag-S '42

See also

Drying apparatus—Textiles
Textile machinery

Heating and ventilation

Dixie mercerizing co. installed electrostatic air cleaners. il Heat & Ven 38:43-4 D '41

Steam economies are effected; keeping of records; heat for mill building and process purposes. P. L. Geiringer. il Textile World 91:84-5 D '41; 92:78-9 Ja '42

Lighting

All-out illumination; textile mill requirements. il Rayon 23:229-33 Ap '42

Better lighting raises output of woolen cloth; Uxbridge (Mass.) worsted company. il Elec W 117:654-5 F 21 '42

Fluorescent lighting. E. Mauldin. il Textile World 92:86-9 My '42

Fluorescent lighting in a textile mill; case study in approved conversion lighting. diag Elec W 118:113 Jl 11 '42

TEXTILE mills—Lighting—*Continued*

Illumination levels for textile mills. Textile World 92:109 F '42

Lighting effectiveness for the mill in war-time. C. L. Amick. il Rayon 23:300-1, 359-60 My-Je '42

Relighting for war schedules; southern mill replaces obsolete system with fluorescent installation. W. T. Stuart. il plan Textile World 92:68-9 O '42

Maintenance and repair

All-out operation speeds mechanical advance. R. Trautschold. il Rayon 23:563-9 S '42

Upkeep of electrical equipment. R. H. Rogers. il diag Textile World 92:70-2 Mr; 80-1 Ap '42

War-time conservation of machinery and supplies. J. J. Enwright. Textile World 92:104+ F '42

Management

Are you packing them right? new problems in packaging textiles for shipment. il Textile World 92:81-3 My '42

By all means, discourage cliques. J. J. Jackson. il Textile World 92:78-9 Ag '42

Cost items to watch under standard cost system. Textile World 92:78 Je '42

Effective weave-room control. R. H. Rositzke. il Textile World 91:72-3+ D '41; 92:76-7 Ja '42

Interdepartmental cooperation. N. D. White. Rayon 22:676-8 N '41

Inventory trends in textile production and distribution; an appraisal of experience during the 1930's. H. S. Davis. 70p pa 50c Textile foundation, Washington, D.C. '41

Making the check-up chart work. D. G. Woolf. charts Textile World 91:97-128 N '41

Need for control in smaller dyeing and finishing plants. A. C. Tate. il Textile World 91:82-3 D '41

On the spot; textile production during the emergency. Rayon 23:43-4 Ja '42

Overseer determines the pattern. J. J. Jackson. Textile World 91:104-5 D '41

Overseers' corner. Published in monthly numbers of Textile world

Problems in textile management. H. Miedendorp, jr. Rayon 23:38-9 Ja '42

She shall have music; use of recorded music in mill; Collins & Aikman corp. il Textile World 91:105 D '41

Steam economies are effected; keeping of records; heat for mill building and process purposes. P. L. Geiringer. il Textile World 91:84-5 D '41; 92:78-9 Ja '42

Work and processing simplification. H. Miedendorp, jr. Rayon 22:685-6 N '41

Your management: modern or static? Textile World 92:82-3 Mr '42

See also
Cotton mills—Management

Power

Capacitors increase generating capacity. H. M. Myers. Elec W 118:478+ Ag 8 '42

Importance of power factor in the textile industry. T. P. Allen. Textile Inst J 33: P 1-3 Ja '42

See also
Electric driving—Textile mills

Protection

Textile plant protection section. il Textile World 92:83-112 Jl '42

Records

Making the check-up chart work. D. G. Woolf. charts Textile World 91:97-128 N '41

Steam economies are effected; keeping of records. P. L. Geiringer. il Textile World 91:84-5 D '41

Weave-room control; loom control sheet and loom inspection report. R. H. Rositzke. Textile World 92:76-7 Ja '42

Safety measures

Safety at Collins & Aikman; record of 4,000,000 man-hours without an accident. W. Gill, jr. Textile World 92:78-9 S '42

Safety in the textile industry; sixth state-wide textile safety contest in North Carolina. Textile Col 64:42+ Ja '42

TEXTILE oils

Determination of water-immiscible organic solvents volatile with steam in sulfonated (sulfated) oils; report no. 8 of the sub-committee on sulfonated oils. diags Am Dyestuff Rep 31:64-70 F 2 '42

Effect of variation in emulsification technique of batching oils upon the spinning and measurable characteristics of jute. H. L. Parsons. Textile Inst J 33:P77-84 Je '42

New nylon problems created by rayon welts. V. A. Schiffer. Rayon 22:668-9 N '41

Rayon yarn in the hosiery industry. Rayon 22:669-70 N '41

Textile chemist meets national defense emergency. Am Dyestuff Rep 30:692-3 D 8 '41

Textile chemistry in knitting full-fashioned hosiery. V. A. Schiffer. Rayon 23:210-11 Ap '42

TEXTILE patents

Abstracts from British and foreign journals and patents. Published in monthly numbers of Society of dyers and colourists journal

Acid dyeing and animalizing of cellulosic and synthetic fibers. Am Dyestuff Rep 31: 494, 509-11 O 12 '42

Chemical stratagems in waterproofing processes. Textile Col 64:95-8 F '42

Patent reports. Published in monthly numbers of Rayon textile monthly

United States patents. Published in monthly numbers of Textile colorist

See also
Dye patents
Rayon—Patents
Woolen and worsted finishing—Patents

TEXTILE printing

Aftertreatment of white effects; removal of stains and brightening of colors. Textile Col 64:387-8+ Ag '42

Aquadye printing method. Am Dyestuff Rep 30:668 N 24 '41

Future of electroforming; manufacturing wire screen. L. A. Rich. J Chem Educ 19: 386+ Ag '42

How to provide for inspection of repeated pattern travelling too fast to be seen by unaided vision; stroboscopic equipment in color printing of cloth. A. P. Mansfield. il diag Gen Elec R 44:633-4 N '41

Improved economy in handling print room back greys. E. Farnworth. Am Dyestuff Rep 31:182+ Ap 13 '42

Observations on hand block printing. Textile Col 63:673-4 D '41

Pigment bindery in textile printing. A. J. Hall. Textile Col 64:175-6 Ap '42

Printing of colored resists under azoic colors; patent. Textile Col 64:480 O '42

Printing with vat dyes. H. Hoyle. Soc Dyers & Col J 57:332-5 N '41; Same. Textile Col 64:67-70+ F '42

Resists under printed azoic colors. Textile Col 64:449-50 S '42

Résumé of burn out printing methods. T. Ashley. Textile Col 63:621-3 N '41

Roller printing. Textile Col 63:609-12; 64: 109-12+, 163-6+, 267-70, 319-23 N '41, Mr-Ap, Je-Jl '42

Rubbing and bleeding of dyestuffs in printing and dyeing of textiles. Textile Col 64:373-6, 411-12, 424-8, 467-71+ Ag-O '42 (to be cont)

Screen printing. D. Heritch. Textile Col 64: 40-2 Ja '42

Textile printing by pigmented lacquers. E. A. Ellis. Textile Col 64:38-9 Ja '42

Use of cutch in textile printing. K. B. Parekh. Textile Col 63:702 D '41

See also
Dyes and dyeing
Nylon printing
Rayon printing
Textile fabrics

Samples

Roller printing; printing, steaming and development of samples. Textile Col 64:109-12+ Mr '42

TEXTILE printing—*Continued*

Spray printing

Spray method in cloth printing. Am Dyestuff Rep 31:51 Ja 19 '42
Spray printing methods. A. W. Doyle. Textile Col 64:89-90 F '42

TEXTILE printing machines
Roller printing; use of doctor blades. Textile Col 64:164-6+ Ap '42
Rotary machine for screen printing. il Textile World 91:129 N '41

TEXTILE research
Callaway research department. P. N. Collier and B. R. Clanton. il Textile World 91:60-1 D '41
Chemical analysis of fibre mixtures. F. Howlett, M. J. Morley and A. R. Urquhart. bibliog(54 references) Textile Inst J 33:T75-104 Je '42
Industrial research in the United States during 1941. W. A. Hamor. il Chem & Eng N 20:24-7 Ja 10 '42
Rayon staple fiber for carpets improved by research. J. A. Truitt. Rayon 23:612-13 O '42
Research possibilities in the hosiery industries. A. Pollard. Am Dyestuff Rep 31:274 My 25 '42
Statistical methods in textile research; the design of weaving experiments. V. R. Main and L. H. C. Tippett. Textile Inst J 32:T209-20 N '41
Theoretical approach to the problem of yarn strength. R. R. Sullivan. bibliog J Ap Phys 13:157-67 Mr '42
To make research pay; industry needs central organization. P. M. Strang. Textile World 92:88 Mr '42; Same. Rayon 23:164 Mr '42
See also
Cotton research
Nylon
Rayon research
Wool research

TEXTILE research institute
Annual meeting, New York, Nov. 14. Textile World 91:57-8 D '41
Election of officers. Textile World 92:78 Je '42
Renewed industrial interest in textile research created. H. R. Mauersberger. Rayon 22:708-9 D '41

TEXTILE research war council
Textile research war council formed. Rayon 23:320 Je '42

TEXTILE schools
Challenge to textile schools; letter from W. M. Thomson; reply by F. M. Feiker. Textile World 91:86 D '41
Clemson textile school, Clemson college, S.C. il Textile Col 64:383 Ag '42
Most graduates enter services. Textile World 92:80 Je '42
North Carolina state college textile school. il Textile Col 64:345-6 Jl '42
Textile education. E. Heard. Am Dyestuff Rep 31:80-6, 90-1 F 16 '42; Same abr. Rayon 23:75-7, 167-8, 295-6 F-Mr, My '42

TEXTILE sizing. See Sizing (textiles)

TEXTILE standards
Color clash; hearings on rules for colorfastness. Business Week p88-9 S 19 '42
Colorfast or not? FTC's new rules. Business Week p70-1 S 5 '42
Hearings on proposed trade practice rules relating to the color fastness of textiles; with text. Am Dyestuff Rep 31:463-72+, 478-83 S 28 '42
Recommended commercial standard for cotton and rayon velvet. Rayon 23:134-5 Mr '42
Report of A.S.A. committee L-14 on color fastness of textiles as presented at the F.T.C. hearing, Washington, Aug. 18. Am Dyestuff Rep 31:428-9 Ag 31 '42
Tentative textile standard no. 4, 1940; moisture in relation to textile materials. Textile Inst J 33:S3-6 Je '42
Textile standards in wartime; spring meeting of committee D13 of the American society for testing materials. Textile World 92:82 Ap '42
Utility cloths mean money's worth; English experience shows that fabrics of substandard quality will pass out. il Textile World 92:90 S '42

TEXTILE testing
Dyestuff tests on textile materials. J. F. Holmes. Textile Col 64:193-5 Ap '42
Identification of various types of tendering in manila and sisal. V. Castle and W. A. S. White. bibliog pls Textile Inst J 33:T17-32 Mr '42
Testing as an aid to national defense. F. T. Mosedale. il Rayon 23:78-9 F '42
See also
Textile fabrics—Testing
Textile finishing—Testing
Textile testing machines
Yarn—Testing

Standards

Textile standards in wartime; spring meeting of committee D13 of the American society for testing materials. Textile World 92:82 Ap '42

TEXTILE testing machines
Effect of rate of loading on tensile strength of cord and yarn. M. Castricum and A. N. Benson. bibliog Am Soc T M Proc 41:1214-16 '41
Measurement of machine rate of load on constant rate of traverse type cloth testing machines. J. G. Martindale. Textile Inst J 35:S34-7 Je '42
Method of calibration of horizontal pendulum type fabric tensile testing machine. N. Goodbrand. Textile Inst J 33:S39 Je '42
Methods of calibrating textile strength testing machines. E. Bowen. Textile Inst J 33:S38 Je '42
New design of cloth wearing tester. J. G. Martindale. diag 2pls Textile Inst J 33:T151-8 S '42
New type hosiery tester. M. N. Holmes. il Rayon 23:216 Ap '42
Rayon hosiery testing. F. T. Mosedale. il Rayon 23:214-15 Ap '42
Some theoretical notes on the constant rate of traverse pendulum type cloth tester. J. G. Martindale and H. J. Woods. diag Textile Inst J 33:S24-33 Je '42

TEXTILE waste
Salvage of fibers, papers and rags. W. T. Clark. Mech Eng 64:460 Je '42

TEXTILE workers
By all means, discourage cliques. J. J. Jackson. il Textile World 92:78-9 Ag '42
Effect of the war on textile employment. R. E. Clem. Monthly Labor R 55:446-58 S '42
Enquiry into the conditions of textile labour in Bombay. Int Labour R 45:309-12 Mr '42
Job instructor training; how textile mills can benefit from program initiated by War production board. Textile World 92:104-5 Mr '42
NWLB gives wage rise to textile workers. Comm & Fin Chr 156:723 Ag 27 '42
NWLB orders stabilization of wages in nine New England textile plants. Comm & Fin Chr 156:375 Jl 30 '42
Textile wage row; New England mill operators resist union demand for raise. Business Week p64+ Mr 28 '42
Textile war manual; how wartime labor problems may be solved. Textile World 92:84-5 F '42
See also
Cotton mills—Employees
Hosiery mills—Employees
Woolen and worsted mills—Employees

TEXTILE workers union of America
Blanket contract; C.I.O. textile union asks one over-all agreement in New England mills. Business Week p74-6 Mr 21 '42

TEXTOLITE
Plastics competition award to Foster Wheeler corp.; cooling tower fans. il Mod Plastics 19:108-9 N '41

TEXTOLITE—*Continued*

Plastics competition award to General electric co.; radial wave steel reflector. il Mod Plastics 19:106-7 N '41

Plastics competition award to Union hardware co.; roller skate wheels. il Mod Plastics 19:146-7 N '41

Tokyo and return; fabric-filled phenolic loop antenna housing for bombers. H. M. Richardson. il Mod Plastics 19:42-3+ Ag '42

TEXTONE

Determination of available chlorine in solutions containing textone. J. F. White. Am Dyestuff Rep 31:484-7 S 28 '42

Some applications of textone in the textile industry. E. G. Fenrich and G. P. Vincent. Am Dyestuff Rep 31:263-5 My 25 '42

THAILAND

End of Thailand. Economist 141:714 D 13 '41

Thailand's natural wealth. Economist 141:750-1 D 20 '41

See also
World war, 1939—Thailand

THALLIUM

Artificial radioactive isotopes of thallium, lead, and bismuth. K. Fajans and A. F. Voigt. Phys R 60:619-25 N 1 '41

THALLIUM bromide

Interaction of ions and dipolar ions; solubility of thallous salts in glycine and in alanine solutions. R. M. Keefer and H. G. Reiber. bibliog Am Chem Soc J 63:3504-7 D '41

THALLIUM chloride

Solvent effects on the kinetics of ionic reactions and the choice of the concentration scale. H. G. Davis and V. K. LaMer. bibliog J Chem Phys 10:585-97 S '42

THALLIUM compounds

Formal oxidation-reduction potentials of thallous-thallic salts in aqueous hydrochloric acid solutions; formation of chlorothallate complex ions. R. H. Hughes and C. S. Garner. bibliog diag Am Chem Soc J 64:1644-8 Jl '42

THALLIUM iodate

Interaction of ions and dipolar ions; solubility of thallous salts in glycine and in alanine solutions. R. M. Keefer and H. G. Reiber. bibliog Am Chem Soc J 63:3504-7 D '41

THANITE

New insecticide. Science 95:sup10+ My 22 '42

Thanite, a new Hercules insecticide concentrate. il Chem Ind 51:566-8 O '42

THAWING

Same quarry, different rocks; resistance of Chicago area dolomites to freezing and thawing. H. B. Willman. il Rock Prod 44:49-52 D '41

THAWING, Electric

Thawing of frozen pipes by electricity; abstract. L. A. Ferney. Am Water Works Assn J 34:1113-14 Jl '42

THEATER

Actor's art and job. H. Irvine. 251p $2.50 Dutton '42

Great Britain

See also Moving picture industry—Great Britain

THEATERS

See also
Auditoriums
Moving picture theaters
Radio broadcasting studios

Lighting

Improved theater lighting layout; Whitney theater, Hamden, Conn. F. M. Hill. diags Elec W 117:991 Mr 21 '42

Stage setting and scenery

American opera designs; New York public library exhibition. il Arch Forum 76:sup14, 16 Ja '42

Stages of the world. 100pls $1.50 Theatre Arts, New York '41

See also
Moving pictures—Setting and scenery

THEATERS, Open air

Theaters, gardens and horticulture. C. S. Gager. Science 95:635-9 Je 26 '42

THEFT

Unusual thefts of the year. Nat Underw 46:14 Ja 1 '42

See also
Automobiles—Theft
Embezzlement
Insurance, Burglary
Tires, Automobile—Theft

THEOBROMINE

Facts about caffeine, theobromine in foods. P. W. Punnett. il Food Ind 14:52-3+ Mr '42

THEODOLITES

Tunnel survey methods and instruments. R. Hammond. diags Engineer 173:79-81 Ja 23 '42

THEOP

Theop, new plasticizer for synthetic rubber. Rubber Age 51:298 Jl '42

THERAPEUTICS

Hand-book of treatment. E. A. Mullen. 4th rev ed 707p $4.50 Davis '42

Treatment in general practice. H. Beckman. 4th ed rev 1015p bibliog(p885-943) $10 Saunders '42

See also
Chemotherapy
Cold—Therapeutic use
Electrotherapeutics
Gold—Therapeutic use
Medicine
Radiotherapy
Salt—Therapeutic use
Ultraviolet rays—Therapeutic use
Work, Therapeutic effect of
X rays—Therapeutic use

THERAPEUTICS, Ophthalmological

Hand-book of ocular therapeutics. S. R. Gifford. 3d ed rev 410p $4 Lea & Febiger, Philadelphia '42

THERMAL analysis

See also
Critical point

THERMAL expansion. See Expansion (heat)

THERMAL springs. See Hot springs

THERMIONIC emission. See Electrons—Thermionic emission

THERMIONIC valves. See Vacuum tubes

THERMIT

East Mountain manganese; ore treatment by the thermite process. S. M. Bancroft. diags Can Min J 63:361-3 Je '42

Thermit, its uses in war and industry. J. H. Deppler. il Chem & Met Eng 49:93-7 Jl '42; Excerpts. Metals & Alloys 16:798+ O '42

THERMOCHEMISTRY

Chemistry at 1600° C. J. Chipman. Iron Age 150:53-5 O 22 '42

Determination of small amounts of benzene in the presence of cyclohexane and of toluene in the presence of methylcyclohexane. B. B. Corson and L. J. Brady. il Ind & Eng Chem Anal ed 14:531-3 Jl 15 '42

Effects of heat on dry proteins; the kinetics of the formation of insoluble egg albumin. F. W. Bernhart. bibliog J Phys Chem 45:1382-7 D '41

Ethylene-ethane and propylene-propane equilibria. G. B. Kistiakowsky. bibliog J Chem Phys 10:78-9 Ja '42

Heats of organic reactions; heats of hydrolysis of some acid anhydrides. J. B. Conn and others. bibliog Am Chem Soc J 64:1747-52 Ag '42

Heats of organic reactions; the reaction between methemoglobin and salicylate. R. M. Roberts. bibliog Am Chem Soc J 64:1472-5 Je '42

THERMOCHEMISTRY—*Continued*

Kinetics and rapid thermochemistry of carbonic acid. F. J. Roughton. bibliog Am Chem Soc J 63:2930-4 N '41

See also

Boiling points
Coagulation, Heat of
Combustion
Combustion, Heat of
Dilution, Heat of
Dissociation
Distillation
Entropy
Evaporation
Freezing points
Fusion, Heat of
Hydrogenation, Heat of
Ionization, Heat of
Melting points
Solution, Heat of
Specific heat
Thermodynamics
Transition, Heat of
Vapor pressure
Vaporization, Heat of

THERMOCOUPLES

Application of oscillograph to determination of cooling rates of quenched steels. C. R. Austin, R. M. Allen and W. G. Van Note. bibliog il diags Am Soc for Metals Trans 30:747-73; Discussion. 773-5 S '42

Calibrating a thermocouple. F. Gibadlo. diags Power Pl Eng 46:88 Ag '42

Guides thermocouples into occupied ducts. A. Bodicky. il diags Elec W 118:1303 O 17 '42

Liquid-steel temperature determination; third report of the liquid-steel temperature subcommittee of the committee on the heterogeneity of steel ingots. Engineering 153: 356-7 My 1 '42

Method of installing tube-wall thermocouples. E. L. Patton and R. A. Feagan, jr. bibliog diag Ind & Eng Chem Anal ed 13:823-4 N 15 '41

Quick installation of tube thermocouples in cracking still. W. T. D. Brock. Instruments 15:10 Ja '42

Rapid temperature measurements of molten iron and steel with an immersion thermocouple. F. Holtby. il diags Am Soc for Metals Trans 29:863-75; Discussion. 875-80 D '41

Twelve-point recorder facilitates analyses of heat treatment processes. S. H. Isaacs. il Instruments 15:106 Ap '42

THERMODYNAMICS

Applied thermodynamics; symposium. J. G. Aston and others. bibliog il diags Ind & Eng Chem 34:514-602 My '42

Calculation of the effect of pressure upon ionic equilibria in pure water and in salt solutions. B. B. Owen and S. R. Brinkley, jr. bibliog Chem R 29:461-74 D '41

Calculation of the thermodynamic properties and the association of electrolyte solutions. G. Scatchard and L. F. Epstein. bibliog Chem R 30:211-26 Ap '42

Chemistry at 1600° C. J. Chipman. Iron Age 150:53-5 O 22 '42

Compression and expansion of air. A. L. Egan. diags Engineering 153:423-4, 443-5 My 29-Je 5 '42

Effect of pressure on enthalpy of pentane, heptane, and isooctane. E. R. Gilliland and M. D. Parekh. bibliog Ind & Eng Chem 34:360-2 Mr '42

Energy levels and thermodynamic functions for molecules with internal rotation; rigid frame with attached tops. K. S. Pitzer and W. D. Gwinn. bibliog J Chem Phys 10:428-40 Jl '42

Entropies of nitric acid and its mono- and tri-hydrates; their heat capacities from 15 to 300°K; the heats of dilution at 289.1° K; the internal rotation and free energy of nitric acid gas; the partial pressures over its aqueous solutions. W. R. Forsythe and W. F. Giauque. bibliog Am Chem Soc J 64:48-61 Ja '42

Equilibria of two-dimensional systems. H. H. Rowley and W. B. Innes. bibliog diag J Phys Chem 46:537-48 My '42

Equilibrium thermodynamics and biological chemistry. G. Scatchard. Science 95:27-32 Ja 9 '42

Heat capacity, entropy, and heats of transition, fusion, and vaporization of dimethylacetylene; free rotation in the dimethylacetylene molecule. D. M. Yost, D. W. Osborne and C. S. Garner. bibliog Am Chem Soc J 63:3492-6 D '41

Heat capacity, entropy, heats of fusion and vaporization and vapor pressure of fluorotrichloromethane. D. W. Osborne and others. bibliog Am Chem Soc J 63:3496-9 D '41

Heat capacity, entropy, heats of fusion, transition, and vaporization and vapor pressures of methyl mercaptan. H. Russell, jr., D. W. Osborne and D. M. Yost. bibliog Am Chem Soc J 64:165-9 Ja '42

Heat capacity, heats of fusion and vaporization, vapor pressure and entropy of dimethyl sulfide. D. W. Osborne, R. N. Doescher and D. M. Yost. bibliog Am Chem Soc J 64:169-72 Ja '42

Heat of formation and high-temperature heat content of manganous oxide and manganous sulfate; high-temperature heat content of manganese. J. C. Southard and C. H. Shomate. bibliog Am Chem Soc J 64:1770-4 Ag '42

High-temperature heat content of Mn_3O_4, $MnSiO_3$ and Mn_3C. J. C. Southard and G. E. Moore. bibliog Am Chem Soc J 64: 1769-70 Ag '42

Introduction to chemical thermodynamics. L. E. Steiner. 516p $4 McGraw-Hill '41

Laboratory determination of the heat of transition of sulfur. P. P. Sutton. J Chem Educ 19:459 O '42

Magnetism and the third law of thermodynamics; the heat capacity of manganous fluoride from 13 to 320°K. J. W. Stout and H. E. Adams. bibliog Am Chem Soc J 64:1535-8 Jl '42

Molal volumes; thermodynamic properties of electrolytes at infinite dilution. O. Redlich and J. Bigeleisen. bibliog Chem R 30:171-9 Ap '42

Nature of thermodynamics. P. W. Bridgman. 229p $3.50 Harvard univ. press '41

Phase equilibria in hydrocarbon systems; Joule-Thomson coefficients in the methane-propane system. R. A. Budenholzer and others. bibliog Ind & Eng Chem 34:878-82 Jl '42

Phase equilibria in hydrocarbon systems; thermodynamic properties of *n*-pentane. B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:730-7 Je '42

Six-place table of the Einstein functions. J. Sherman and R. B. Ewell. J Phys Chem 46:641-62 Je '42

Statistical mechanics of nearest neighbor systems; general theory and application to two-dimensional ferromagnets. E. W. Montroll. J Chem Phys 10:61-77 Ja '42

Statistical thermodynamics of rubber. F. T. Wall. J Chem Phys 10:132-4, 485-8 F, Jl '42

System nitric acid—sulfuric acid—water; enthalpy-temperature nomograph. J. L. McCurdy and C. McKinley. Ind & Eng Chem 34:1002-4 Ag '42

Systematic method of obtaining the relations between thermodynamic derivatives. A. Tobolsky. bibliog J Chem Phys 10:644-5 O '42

Temperature-composition relations of the binary system manganous nitrate-water. W. W. Ewing and H. E. Rasmussen. Am Chem Soc J 64:1443-5 Je '42

Theory of the isoelectric point. T. L. Hill. J Phys Chem 46:597-605, 621-4 My-Je '42

Thermal properties of a wet gas. G. G. Brown and F. Kurata. Pet Eng 13:23-8 D '41

Thermal properties of crystalline and glassy boron trioxide. J. C. Southard. Am Chem Soc J 63:3147-50 N '41

Thermal properties of mixed acids; enthalpy chart. C. McKinley, jr. and G. G. Brown. bibliog il Chem & Met Eng 49:142-4 My '42

Thermodynamic calculations of pressure effects in gaseous reactions by the equation of state method. L. J. Gillespie. Chem R 29:525-7 D '41

Thermodynamic constants of the dithionite (hydrosulfite) ion. W. G. McMillan, jr., J. D. Roberts and C. D. Coryell. bibliog Am Chem Soc J 64:398-9 F '42

Thermodynamic properties of air. R. V. Gerhart and others. bibliog Mech Eng 64:270-2 Ap '42

THERMODYNAMICS—*Continued*

Thermodynamic properties of binary solid solutions; phase separation. E. N. Lassettre and J. P. Howe. bibliog J Chem Phys 9:801-6 N '41

Thermodynamic properties of nitrogen at high pressures as analytic functions of temperature and pressure. S. H. Maron and D. Turnbull. Am Chem Soc J 64:44-7 Ja '42

Thermodynamic study of the tin-bismuth system. H. Seltz and F. J. Dunkerley. bibliog diag Am Chem Soc J 64:1392-5 Je '42

Thermodynamic theory of electrocapillarity. D. C. Grahame and R. B. Whitney. bibliog Am Chem Soc J 64:1548-52 Jl '42

Thermodynamic theory of solutions of two liquids at all concentrations. J. L. Finck. Franklin Inst J 233:51-70 Ja '42

Thermodynamics. J. H. Keenan. 499p $4.50 Wiley '41

Thermodynamics in isomerization. P. Buthod and W. L. Nelson. Oil & Gas J 40:120-1 Mr 26 '42

Thermodynamics of aqueous solutions of potassium chloride at temperatures from 15-45° from e. m. f. measurements on cells with transference. W. J. Hornibrook, G. J. Janz and A. R. Gordon. bibliog diag Am Chem Soc J 64:513-16 Mr '42

Thermodynamics of bi-univalent electrolytes; the activity coefficients of lead bromide from 5 to 40°. R. G. Bates. bibliog Am Chem Soc J 64:1136-9 My '42

Thermodynamics of deep refrigeration. R. C. H. Heck. Mech Eng 64:473-6+ Je '42

Thermodynamics of high polymer solutions. P. J. Flory. bibliog J Chem Phys 10:51-61 Ja '42

Third law of classical thermodynamics. P. C. Cross and H. C. Eckstrom. J Chem Phys 10:287-91 My '42

Vapor pressure of ice from 32 to -280 F. J. A. Goff. bibliog Heating-Piping 14:121-4 F '42

Vapor pressure-temperature relations and heats of solution and dilution of the binary system manganous nitrate-water. W. W. Ewing, C. F. Glick and H. E. Rasmussen. Am Chem Soc J 64:1445-9 Je '42

Variation with temperature of the principal elastic moduli of NaCl near the melting point. L. Hunter and S. Siegel. bibliog il diag Phys R 61:84-90 Ja 1 '42

See also

Entropy
Equation of state
Evaporation
Free energy
Gas and oil engines—Combustion research
Gas flow
Heat
Joule-Thomson effect
Refrigeration and refrigerating machinery
Specific heat
Steam
Vapor pressure

Study and teaching

History of instruction in heat power in the United States. A. M. Greene, jr. J Eng Educ 33:112-25 O '42

Method of teaching thermodynamic functions. H. Becher. J Chem Educ 19:237-8 My '42

Thermodynamics for graduate students of mechanical engineering. J. H. Keenan. J Eng Educ 32:353-60 D '41

Thermodynamics for undergraduate chemical engineers. V. C. Williams. J Eng Educ 32:687-703 Ap '42

Thermodynamics for undergraduates in chemical engineering. R. York, jr. bibliog J Chem Educ 19:376-9 Ag '42

THERMOELASTICITY. See Elasticity

THERMOELECTRICITY

Thermoelectric method of measuring vapor pressure. R. R. Roepke. bibliog J Phys Chem 46:359-66 Mr '42

See also

Thermocouples

THERMOLUMINESCENCE. See Luminescence

THERMOMETERS, Cooking

Rating

Kitchen thermometers. il Consumers' Research Bul 9:6-9 Je '42

THERMOMETERS and thermometry

Accurate measurements of extreme pressures and temperatures; manufacture of Bourdon tube devices. Metal Prog 41:61-2 Ja '42

Balloons in reading temperatures; raising thermometers to various levels, in testing gas heaters in machine shop. diags Sheet Metal Worker 33:42+ O '42

Electrical conduction in the glass insulation of resistance thermometers. H. J. Hoge. bibliog diags J Research Nat Bur Stand 28:489-98 Ap '42

How to make thermometers and control instruments last longer. E. F. Nordstrom. Power Pl Eng 46:104 O '42

Intercomparison of platinum resistance thermometers between -190° and 445° C. H. J. Hoge and F. G. Brickwedde. bibliog J Research Nat Bur Stand 28:217-40 F '42

Low temperature adiabatic calorimeter; the calibration of the platinum resistance thermometers. D. M. Yost and others. diags Am Chem Soc J 63:3488-92 D '41

Measurement of the physical properties of the thermal environment; report of the ASHVE research technical advisory committee on instruments. Heating-Piping 14:382-5 Je '42

Temperature conversion; Fahrenheit into centigrade and vice versa. L. Tulauskas. Metal Prog 42:393-4 S '42

Temperature conversions; table. Metal Prog 42:522X O '42

Which thermostat? pressure types. J. W. Greve. il diags Machine Design 14:66-9+ S '42

See also

Bolometers
Calorimeters and calorimetry
Pyrometers and Pyrometry
Temperature—Measurement

History

Vestige of Babylonian influence in thermometry. C. B. Boyer. Science 95:553 My 29 '42

THERMOPILES

Radiant energy measurements with thermopiles. N. C. Beese. Opt Soc Am J 31:705-8 N '41

See also

Thermocouples

THERMOREGULATOR. See Temperature regulators; Thermostats

THERMOSTATS

Adjustable vapor thermoregulator. J. Y. Yee. diag Ind & Eng Chem Anal ed 13:839 N 15 '41

Gas service manual; automatic controls. W. L. Riehl. diags Gas Age 90:25-9 Jl 30 '42

New sunlamp operates without auxiliaries; use of thermostatic metal. G. A. Freeman. diag Elec W 117:312 Ja 24 '42

Selection and application of thermostatic expansion valves for low temperature installations. R. S. Dawson. diags Refrig Eng 44:222-4 O '42

Some practical pointers on temperature control. W. Goodman. diags Heating-Piping 14:661-5 N '42

Thermostat metal; abstract. S. R. Hood. Metals & Alloys 15:678 Ap '42

Thermostatic valve-control device; patent. diag Gas J (Lond) 237:319 Mr 4 '42

Thermostatically-controlled washing equipment. Engineering 152:366 N 7 '41

Thermostating for comfort. E. E. Lynch. il diags Gen Elec R 45:393-7 Jl '42

Two bridge-controlled thyratron thermostats. D. Bancroft. diags R Sci Instr 13:24-7 Ja '42; Correction. 13:114 Mr '42

Which thermostat? J. W. Greve. il diags Machine Design 14:74-7+ Ag; 66-9+ S '42

See also

Temperature—Regulation

THESES. See Dissertations, Academic

THÉVENIN theorem

Network calculations. T. F. Wall. diags Elec R (Lond) 129:501-3 N 7 '41; Discussion. 129:597-8; 130:627-8 N 28 '41, My 15 '42

THIAMIN. See Vitamins—Vitamin B_1

THIAZINOCYANINES
Thiazinocyanines; carbocyanines containing the 2 : 4-benzthiazine nucleus. B. Beilenson and F. M. Hamer. Chem Soc J p98-102 F '42

THIAZOLES
Reactions of certain thiazoles and glyoxalines with picryl chloride and 2 : 4-dinitrochlorobenzene. J. McLean and G. D. Muir. Chem Soc J p383-6 Je '42
Researches on thiazoles; some interesting exchange reactions between 6-alkoxy-7-nitrobenzothiazoles and alcohols. H. H. Fox and M. T. Bogert. bibliog Am Chem Soc J 63:2996-9 N '41
Thiazole research; synthesis of 2-phthalimidomethyl-4-N-diethylamino-methylthiazole. Y. Chi and S. Tshin. bibliog Am Chem Soc J 64:90-1 Ja '42
See also
Sulfathiazole

THIAZOLINE
Phenylmercapto-thiazolines. J. B. Niederl and W. F. Hart. Am Chem Soc J 64:2487-8 O '42

THICKENERS
Better pulp washers and thickeners; forty years of progress. G. Penney. Pulp & Pa of Can 43:588-9 Jl '42
Settling and thickening of aqueous suspensions. K. Kammermeyer. bibliog il Ind & Eng Chem 33:1484-91 D '41
Shriver filter type thickener. il Chem & Met Eng 49:111 Ja '42; Food Ind 14:95-6 Jl '42
Thickener underflow control. diags Eng & Min J 143:70 O '42
See also
Concentrators

THIENYL compounds
α-Thienylaminoalkanes. F. F. Blicke and J. H. Burckhalter. bibliog Am Chem Soc J 64:477-80 Mr '42

THIMMES, James G.
Big as Bridges? expansion of S.W.O.C. on West coast. por Business Week p77-8 My 9 '42

THINNERS. See Paint materials; Varnish and varnishing

THIOCARBIMIDE. See Thiourea

THIOCHROME
Determination of thiamine in vegetables. J. C. Moyer and D. K. Tressler. bibliog Ind & Eng Chem Anal ed 14:788-90 O 15 '42
Further notes on the estimation of vitamin-B_1 by the thiochrome method. Y. L. Yang and L. J. Harris. Chem & Ind 61:27-8 Ja 10 '42
Vitamin-B_1; estimation in wheatmeal and brown bread and stability of different forms of vitamin-B_1 during bread-making. E. R. Dawson and G. W. Martin. bibliog Soc Chem Ind J 61:13-18 Ja '42

THIOCYANATES
Complex ions; a study of some complex ions in solution by means of the spectrophotometer. R. K. Gould and W. C. Vosburgh. bibliog Am Chem Soc J 64:1630-4 Jl '42
Cyanates and thiocyanates of phosphorus, arsenic and antimony. H. H. Anderson. Am Chem Soc J 64:1757-9 Ag '42
Some of the recent developments in the field of thiocyanates. J. H. Clayton and B. Bann. bibliog Chem & Ind 61:420-2 O 17 '42

THIOCYANO compounds
Some of the recent developments in the field of thiocyanates. J. H. Clayton and B. Bann. bibliog Chem & Ind 61:420-2 O 17 '42

THIOCYANOGEN
Some of the recent developments in the field of thiocyanates. J. H. Clayton and B. Bann. bibliog Chem & Ind 61:420-2 O 17 '42

THIODIGLYCOL
Some esters of thiodiglycol. W. R. Clayton and E. E. Reid. Am Chem Soc J 64:908-9 Ap '42

THIODIPHENYLAMINE. See Phenothiazine

THIOETHERS. See Sulfides

THIOGLYCOLIC acid. See Mercaptoacetic acid

THIOINDIGO
Comparative reactivity of the carbonyl groups in the thionaphthenquinones; the constitution of certain thioindigoid dyes. J. Harley-Mason and F. G. Mann. Chem Soc J p404-15 Je '42; Abstract. Soc Dyers & Col J 58:209-11 O '42

THIOKOL
Developments in the synthetic rubber situation; Thiokol N. Rubber Age 51:412 Ag '42
Final plans laid for Thiokol-Dow synthetic plant. Nat Pet N 34:15 Jl 1 '42
Industrial progress in synthetic rubberlike polymers. H. I. Cramer. bibliog Ind & Eng Chem 34:243-51 F '42
New developments in the rubber situation. flow chart Automotive & Aviation Ind 87:26-8 Ag 15 '42
Oil in boxcars? il Fortune 26:22 S '42
Stopgap tires; Dow's Thiokol soon will reach the pilot-plant stage. il Business Week p58-9+ Jl 18 '42
Swelling of synthetic rubbers in mineral oils; swelling in mineral oils containing polyolefins and in mixtures of nujol and diphenyl. P. O. Powers and H. A. Robinson. bibliog Ind & Eng Chem 34:614-17 My '42
Thiokol, an antifreeze that bounced, points to new industry, hope for tires. A. Shoenfield. il Steel 110:51-2 Je 22 '42
Thiokol by du Pont; role in interim tire field. Business Week p17-18 Ag 15 '42
Thiokol synthetic rubber type RD. J. W. Crosby. India Rubber W 106:133-5 My '42
Tires of Thiokol? Business Week p19-20 Je 13 '42
Washington sees rubber box car; new Mareng cell may be used to haul oil. Ry Age 113:313 Ag 22 '42; Same. Ry Mech Eng 116:400-1 S '42

THIOLS
Cinchona alkaloids in pneumonia; some ethers of 6′-(β-thiolethyl)-apocupreine. R. S. Tipson and L. H. Cretcher. bibliog Am Chem Soc J 64:1162-4 My '42
Organic sulphur compounds; the relation between the constitution of thioethers and thiols and their sensitivity towards alkali. A. Schönberg and Y. Iskander. Chem Soc J p90-5 F '42
See also
Mercaptans

THIONAPHTHENE
Comparative reactivity of the carbonyl groups in the thionaphthenquinones; the constitution of certain thioindigoid dyes. J. Harley-Mason and F. G. Mann. Chem Soc J p404-15 Je '42; Abstract. Soc Dyers & Col J 58:209-11 O '42

THIONINE
Extension of the acidity scale. L. Michaelis and S. Granick. Am Chem Soc J 64:1861-5 Ag '42
Harnessing the sun; energy from photochemical reaction. J. A. Sibley. Sci Am 166:286 Je '42

THIOPHANES
Isolation of sulfur compounds from a California straight-run gasoline. O. L. Polly, A. C. Byrns and W. E. Bradley. bibliog Ind & Eng Chem 34:755-8 Je '42

THIOPHENOL. See Benzenethiol

THIOPHOSPHORYL triamide
Aquo ammono phosphoric acids; the N-substituted derivatives of phosphoryl and thiophosphoryl triamide as hydrogen bonding agents. L. F. Audrieth and A. D. F. Toy. bibliog Am Chem Soc J 64:1553-5 Jl '42

THIOPHTHALIMIDE
Monothiophthalimide and some derivatives of oxindole. J. C. Porter, R. Robinson and M. Wyler. Chem Soc J p620-4 O '41

THIOPHTHALIMIDINE
Dithio-β-*iso*indigo; mechanism of its formation from phthalonitrile; derivatives. H. D. K. Drew and D. B. Kelly. Chem Soc J p630-7 O '41

THIOPYRAN

Addition compounds of tetrahydrothiopyran. H. J. Worth and H. M. Haendler. bibliog Am Chem Soc J 64:1232-3 My '42

THIOSEMICARBAZONES

Observations on the absorption spectra of terpenoid compounds; the thiosemicarbazones of irone, eucarvone, and some related ketones. A. E. Gillam and T. F. West. Chem Soc J p483-6 Ag '42

THIOSULFATES

Solvent effects on the kinetics of ionic reactions and the choice of the concentration scale. H. G. Davis and V. K. LaMer. bibliog J Chem Phys 10:585-97 S '42

Analysis

Quantitative analysis of mixtures of thiosulphate and sulphite. K. G. A. Pankhurst. Chem & Ind 61:74-5 F 7 '42

THIOUREA

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides. G. M. Dyson and T. Harrington. Chem Soc J p150-3 F '42

Action of chlorine on aryl thiocarbimides and the reactions of aryl *iso*cyanodichlorides; the addition of chlorine to α-naphthylthiocarbimide and the structure of the compounds obtained. G. M. Dyson and T. Harrington. Chem Soc J p374-5 My '42

Bright copper plating in acid baths. F. L. Clifton and W. M. Phillips. il Metal Finishing 40:457-62 S '42

Dipole moment and structure of urea and thiourea. W. D. Kumler and G. M. Fohlen. bibliog Am Chem Soc J 64:1944-8 Ag '42

Reactivity of substituted thioureas with inorganic ions. J. H. Yoe and L. G. Overholser. Ind & Eng Chem Anal ed 14:435-7 My 15 '42

State of aggregation of gelatin in non-gelating system. E. O. Kraemer. J Phys Chem 46:177-82 Ja '42

THIOXANTHENE

Some derivatives of thioxanthen. C. V. T. Campbell and others. Chem Soc J p747-50 N '41

THIRD avenue transit corporation

Annual report. Comm & Fin Chr 156:1510-11 O 26 '42

Listing of securities. Comm & Fin Chr 156:87 Jl 6 '42

Third avenue transit corporation. O. Ely. Pub Util 30:661-2 N 5 '42

THIURONIUM compounds

Certain derivatives of the octadecenoic acids; *p*-phenylphenacyl esters; the S-benzylthiuronium salts. J. P. Kass, J. Nichols and G. O. Burr. bibliog Am Chem Soc J 64:1061-2 My '42

Identification of alcohols and alkyl hydrogen sulfates with S-benzylthiuronium chloride. R. K. Bair and C. M. Suter. Am Chem Soc J 64:1978 Ag '42

THIXOTROPY

High-speed rotational viscometer of wide range; confirmation of the Reiner equation of flow. H. Green. bibliog il diags Ind & Eng Chem Anal ed 14:576-85 Jl 15 '42

Phenomenon of thixotropy in hemophilic and heparinized blood. A. L. Copley. bibliog Science 94:543-4 D 5 '41

Reversible aggregations of colloidal particles; the isothermal and reversible change of absorption in thixotropic iron oxide sols. W. Heller and G. Quimfe. bibliog diag J Phys Chem 46:765-77 Je '42

THOMAS, Arthur H. 1873-1942

Sketch. por Instruments 15:351 S '42

THOMAS, John Montague, 1874-

President National Union Fire. C. Axman. por East Underw 43:17-18+ Mr 13 '42

THOMPSON products, inc.

Thumbnail stock appraisal. Mag of Wall St 71:84 O 31 '42

THOMSON, Elihu, 1853-1937

Elihu Thomson. K. T. Compton. Science 95:285-9 Mr 20 '42

THOMSON, Sir Joseph John, 1856-1940

Memorial lecture given at the Royal Institution theatre on April 16, 1942. Lord Rayleigh. Chem Soc J p467-74 Jl '42

THOMSON formation

Correlation and metamorphism of the Thomson formation, Minnesota. G. M. Schwartz. bibliog map Geol Soc Bul 53:1001-20, pl 1-4 Jl '42

Structures in the Thomson formation, Minnesota. G. M. Schwartz. bibliog il diags Econ Geol 37:39-63 Ja '42

THORIA

Modified calorimeter for high temperatures; the heat content of silica, wollastonite and thorium dioxide above 25°. J. C. Southard. bibliog diag Am Chem Soc J 63:3142-6 N '41

Photoactivation of adsorption of hydrogen on thorium oxide. A. Luyckx, J. Bodart and G. Rens. bibliog Am Chem Soc J 64:1731-2 Jl '42

Zirconium oxide and thorium oxide in ceramics. N. J. Kreidl. Am Cer Soc J 25:138 Mr 1 '42

THORIUM

Field emission from tungsten and thoriated tungsten single crystals. J. H. Daniel. bibliog il diag Phys R 61:657-67 My 1 '42

First spark spectrum of thorium; classification and Zeeman effect data of Th II. J. R. McNally, jr, G. R. Harrison and H. B. Park. Opt Soc Am J 32:334-47 Je '42

Suggested revision of the position of thorium in the fourth period of the periodic table. G. E. Villar. J Chem Educ 19:329-30 Jl '42

Analysis

Fluorescent tests for beryllium and thorium. C. E. White and C. S. Lowe. Ind & Eng Chem Anal ed 13:809-10 N 15 '41

THORIUM chloride

Purification of thorium chloride octahydrate. C. B. Kremer. Am Chem Soc J 64:1009-10 Ap '42

THORIUM hydroxide

Equilibria and changes in metal hydroxide sols. H. Bassett and R. G. Durrant. Chem Soc J p277-303 Ap '42

THORIUM oxide. See Thoria

THOUGHT and thinking

Engineering approach. R. E. W. Harrison. Engineer 174:27-8 Jl 10 '42

Patterns of the mind. L. H. Hough. 135p $1.50 Harper '42

Thinking for every man. A. G. Melvin. 207p $2 Day '42

THOUGHT transference. See Telepathy

THREAD

See also

Paper thread

Rubber thread

THREAD cutting

Avoid threading too close to shoulders. Iron Age 149:38 Ap 16 '42

Blocks for grinding threading tools. D. E. McDonald. diag Am Mach 86:1232 O 29 '42

Close-tolerance screw threads. P. W. Brown. il Am Mach 86:1151-4 O 15 '42

Cutting fractional-pitch screws. T. O. Ford. Am Mach 86:113-14 F 19 '42

Cutting fractional-pitch threads. F. H. Colvin. il Am Mach 85:1320-1 D 24 '41

Easy way to memorize some shop calculations; obtaining tap drill sizes and feed of compound slide when cutting threads of angular section. W. S. Rowell. diags Mach 48:134-5 D '41

Emergency threading of pump deckplate. E. Wittmann. diags Power 86:812 N '42

Foundation studs threaded down. diag Elec W 118:1143 O 3 '42

Internal threads cut without chatter. C. A. Lee. diags Am Mach 86:510-11 My 28 '42

Milling machine attachment for threading short plugs. diags Mach 49:167 O '42

Producing multiple threads. G. V. Bradbury. Am Mach 86:1170-1 O 15 '42

Thread milling practice. A. H. Henrikson. il diags Iron Age 150:46-9 Ag 20 '42

THREAD cutting—*Continued*
Tool depth for threads easily calculated. E. N. Olson. Am Mach 85:1144 N 12 '41
See also
Screw threads
Taps

THREADING machines
Axelson heavy-duty screw-cutting lathe. il Engineering 153:407 My 22 '42
Bench-type short-thread milling machine. il Engineering 154:110 Ag 7 '42
Hopper-fed automatic primer-body threading machine. il Mach 49:199 S '42
Landis no. 6 precision thread grinder. il Automobile Eng 32:245 Je '42
Modern tool works internal thread chasing machine. il Am Mach 86:688 Je 25 '42
Murchey thread milling machine. il Mach 48:165 My '42

THRIFT. See Saving

THROAT

Diseases

Diseases of the ear, nose and throat: principles and practice of otorhinolaryngology. F. L. Lederer. 3d rev ed 894p $10 Davis '42

THROMBOANGIITIS obliterans
Deproteinated pancreatic extract; use in thromboangiitis obliterans. G. S. King. bibliog Ind Med 10:530-2 D '41

THROMBOSIS
Hypo-prothrombinemia produced by 3,3¹-methylenebis (4-hydroxycoumarin) and its use in the treatment of thrombosis. J. Lehmann. bibliog Science 96:345-6 O 9 '42

THRUST bearings
Bushing puller with thrust bearing. N. Deering. il diag Am Mach 86:163-4 Mr 5 '42
Homemade thrust bearing. G. McNally. diags Power 86:566 Ag '42

THRUST faults. See Faults (geology)

THRUSTORS
Power thrust linkages and their applications. diags Product Eng 13:326-7 Je '42

THUJONE
Observations on the absorption spectra of terpenoid compounds; isothujone. A. E. Gillam and T. F. West. Chem Soc J p811-14 D '41

THUNDERSTORMS
Meteorological characteristics of thunderstorms. G. N. Brancato. il diags Aviation 41:101-3+ O '42 (to be cont)
See also
Lightning

THYMOL
Polymerization of styrene in thymol solution. J. K. Moore, R. E. Burk and H. P. Lankelma. bibliog Am Chem Soc J 63:2954-7 N '41

THYRATRON
Automatic control of boring mills obtained by accurately cut screws; Selsyn thyratron and amplidyne apparatus. R. Hillner and K. K. Bowman. il diags Mach 48:138-42 D '41
Direct current amplifier and its application to industrial measurements and control; abstract and discussion. D. C. Gall. Electrician 128:249-51 Mr 20 '42
Electronic control of motors in textile industry; Thy-mo-trol system. A. P. Mansfield. il diags Rayon 23:557-8 S '42
Electronic counter for rapid impulses; study of the spontaneous activity of nerves. B. Wellman and K. Roeder. diags Electronics 15:74+ O '42
Electronic devices for process control. T. A. Cohen. diags Chem & Met Eng 49:100-1 Ap '42
Electronic motor control; General Electric Thy-mo-trol. il Blast F & Steel Pl 29:1240 D '41; Same. Power Pl Eng 46:112+ F '42
Electronic welding control. H. L. Palmer. il diags. Electronics 15:36-40+ Ag '42
Gaseous tubes, and how to treat them. W. W. Watrous and D. E. Marshall. diags Electronics 15:110-11 Ja '42
Index of tubes published since January 1942; characteristics of industrial tubes. Electronics 15:130+ Je '42
Phase of arcback. A. W. Hull and F. R. Elder. bibliog il diags J Ap Phys 13:171-8 Mr '42
Regulated rectifiers in telephone offices. D. E. Trucksess. diags Elec Eng 61:Trans 613-17 Ag '42
Simple thyratron circuit. S. Golden. diag Ind & Eng Chem Anal ed 14:812 O 15 '42
Simplified electronic thermoregulator. W. E. Gilson and H. A. Wooster. bibliog diags J Chem Educ 19:531-2 N '42
Two bridge-controlled thyratron thermostats. D. Bancroft. diags R Sci Instr 13:24-7 Ja '42; Correction. 13:114 Mr '42

THYROID gland
Assay of thyroid and its preparations. J. L. Deuble and J. Wilkinson, jr. bibliog Ind & Eng Chem Anal ed 14:463-4 Je 15 '42
Diseases of the thyroid gland, presenting the experience of more than forty years. A. E. Hertzler. 670p $8.50 Harper '41
Effect of sulfanilylguanidine on the thyroid of the rat. J. B. Mackenzie, C. G. Mackenzie and E. V. McCollum. Science 94:518-19 N 28 '41
Storage of radioactive iodine in a metastasis from thyroid carcinoma. A. S. Keston and others. Science 95:362-3 Ap 3 '42
Vitamin A and the thyroid. R. F. Sheets, jr. and H. C. Struck. Science 96:408-9 O 30 '42

THYROID preparations
Assay of thyroid and its preparations. J. L. Deuble and J. Wilkinson, jr. bibliog Ind & Eng Chem Anal ed 14:463-4 Je 15 '42

THYROXINE
Synthesis of 3′,5′-diiodothyronine. P. Block, jr. and G. Powell. bibliog Am Chem Soc J 64:1070-4 My '42

TICKS
New epidemiological aspect of spotted fever in the Gulf coast of Texas. L. Anigstein and M. N. Bader. Science 96:357-8 O 16 '42
Rickettsia-like organism from normal dermacentor andersoni Stiles. E. A. Steinhaus. bibliog Pub Health Rep 57:1375-7 S 11 '42
Tick parasites on Cape Cod. S. Cobb. Science 95:503 My 15 '42
Toxic principle in eggs of the tick, dermacentor andersoni Stiles. E. A. Steinhaus. Pub Health Rep 57:1310-12 Ag 28 '42
See also
Ornithodoros turicata

TIDE water associated oil company
Annual report. Comm & Fin Chr 155:1607 Ap 20 '42

TIDES
Model study of tidal currents in East River, New York. L. S. Dillon. il diag maps Civil Eng 12:295-8 Je '42
Tidal hydraulics. G. B. Pillsbury. 283p U.S. Engineer dept, Washington; $1 Supt. of doc. '40

TIE rods, Airplane. See Airplanes—Tie rods

TIFTON, Georgia

Sewerage

Operation and maintenance of the Tifton sewage plant. D. H. Hurst. il plan Pub Works 73:27-8 S '42

TIGOGENONE
Sterols; sapogenins; the bio-reduction of 4-dehydrotigogenone. R. E. Marker and others. bibliog Am Chem Soc J 64:818-22 Ap '42

TILES
Clay tile column simplifies distillers' conversion to industrial alcohol. il Brick & Clay Rec 101:23 S '42
Glazed tile. Am Cer Soc J 25 (Cer A 21): 34 F 1 '42
It's cheaper to use clay products says U.S. Engineer's office. diags Brick & Clay Rec 101:20 Ag '42
Lightweight interlocking clay shingle tile cuts usual roof load in half. diags Brick & Clay Rec 99:21 N '41
$900 rebuilds old barn with clay tile walls. il diags Brick & Clay Rec 101:18-20 Ag '42

TILES—*Continued*

Precast reinforced concrete and tile bath tub introduced in Columbus. il Concrete 50:26-7 N '42

Rebuilding barns with clay tile walls. J. M. Anderson. il Brick & Clay Rec 100:24-5 Je '42

Reinforced tile grain storage bins; Speed tile with waterproofed mortar makes moisture-proof bins. E. W. Manthey. il Brick & Clay Rec 101:21-2 S '42

Southwest does real job in all clay masonry. il Brick & Clay Rec 100:50+ My '42

Special shape clay units take place of metal. il diags Brick & Clay Rec 100:26-7 Ap '42

Specification standards for government work; tile and terrazzo. H. R. Sleeper. Arch Rec 91:63 Mr '42

Tile for tubs and sinks. il diags Am Bld 64:112-13 Ap '42

Two noteworthy roofing contracts; interlocking ceramic tile and lead-coated copper ventilators for one contract; mile-long flashing, plus copper tile on the other. il Sheet Metal Worker 33:25-6+ Jl '42

Manufacture

Precision methods used to manufacture brick facing block and tile. il plan Brick & Clay Rec 101:18-20 S '42

TILTING

Tilted postglacial lake beds in Ohio. G. D. Hubbard and R. C. Rockwood. bibliog maps Geol Soc Bul 53:227-66, pl 1-2 F '42

TIMBER

See also

Lumbering
Pine
Mine timber
Wood

TIMBERLINE ecology

Indications as to climatic changes from the timberline of Mount Washington. R. F. Griggs. bibliog Science 95:515-19 My 22 '42

TIMBO

Timbo root; exports of timbo powder from Brazil. For Comm W 5:20 D 20 '41

TIME, incorporated

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 F 16 '42

TIME deposits. See Bank deposits; Savings deposits

TIME distribution

Sequence of historical random events: do Jesuits die in three's? J. Solterer. Am Statis Assn J 36:477-84 D '41

TIME limit relays. See Relays, Time limit

TIME measurement

Reliability of holding time measurements. R. I. Wilkinson. Bell System Tech J 20:365-404 O '41

See also

Clocks
Clocks, Electric
Timing devices

TIME series (statistics)

Analysis of economic time series. H. T. Davis. 620p bibliog(p440-3, 497-8) $5 Principia press, Bloomington, Ind. '41

Fitting the exponential function and the Gompertz function by the method of least squares. P. M. Stoner. Am Statis Assn J 36:515-18 D '41

Market forecasting significance of market movements; daily highs of the U. S. Steel common stock; wheat May futures and cotton October futures. L. C. Wilcoxen. Am Statis Assn J 37:343-51 S '42

Rapid method of correlation for continuous time series; tests on rainfall-tree growth data. W. S. Glock. Am J Sci 240:437-42 Je '42

Significance test for time series and other ordered observations. W. A. Wallis and G. H. Moore. 59p bibliog(p57-9) 50c Nat. bur. econ. research '41

TIME signals, Radio

Build this time signal receiver. D. W. Jeffries. il diag Radio N 28:28-9+ S '42

TIME study

Applying time-motion study in the office; abstract. A. W. Moise. Management R 30:437-9 D '41

Cost accountant and time and motion studies. A. E. Werolin. N A C A Bul 23:1217-24 My 15 '42

Do time studies result in speed-up? abstract. H. R. Nissley. Management R 31:203-4 Je '42

Incentives cut wiring costs. C. H. Brechin and P. M. Matthews. il Factory Management 100:118-19 My '42

Labor views the working day. S. Barkin. Advanced Management 7:32-7 Ja-Mr '42

Management's search for precision in measuring a fair day's work. J. K. Louden. Advanced Management 7:27-31 Ja-Mr '42

Motion and time study. G. W. Chane. 88p $1.40 Harper '42

Motion and time study applications. R. M. Barnes. 188p $1.75 Wiley '42

Motion and time study in electroplating. P. J. Lopresti. flow charts Metal Finishing 40:196-9 Ap '42

Motion study goes human; workers cooperate. A. Ramond. il Sci Am 167:55-7 Ag '42

Planned time study standards; General electric company. H. C. Geppinger. il Iron Age 150:34-6 O 29 '42

Speed promotes accuracy in posting machine operation. il Bankers Mo 58:545-7 D '41

Standards for the time study department. E. deLuca. Advanced Management 7:84-5 Ap-Je '42

Time and cost analysis in sulky logging. G. Godwin. Pulp & Pa of Can 42:794-6 D '41

Time study applications in the office. Management R 31:325-6 S '42

Time study of pipe fitting leads to incentive plan. il Heating-Piping 13:755 D '41; Same. Heat & Ven 39:26-7 Mr '42

Union time study; Murray corp. plan enlists worker representatives in cost control system. Business Week p62-3 Ag 29 '42

Use of job evaluation in application of time study; abstract. E. L. Berry and E. A. Berg. Foundry 70:96+ Je '42

See also

Job analysis
Motion study

TIME study (of machinery)

Efficient machine loading; Bell Aircraft engineers coordinated system of time studies and use of machine loading control board. M. Stupar. diag Aviation 41:94+ Je '42

Time chart for turning operations; reference book sheet. A. Thompson. Am Mach 85:1235 N 26 '41

TIMEPIECES

See also

Clocks
Clocks, Electric
Watches

TIMING devices

Automatic time-temperature control in heat treating. diag Iron Age 150:54-5 N 5 '42

Continuous-repeat or single-cycle timer. il Instruments 15:330 Ag '42

Cycle timers on Houdry unit control board show how catalyst cases are functioning. il Nat Pet N 34 pt 2:R315 S 30 '42

DePort space-time recorder; laboratory drop testing of airplane landing gear shock struts. A. N. Nordgren. il diag Instruments 15:313-14 Ag '42

Electrical timing devices; diagrams. Product Eng 13:26-7 Ja '42

Electronic timer. I. C. Bechtold. bibliog diag Ind & Eng Chem Anal ed 14:429-30 My 15 '42

High-speed condenser timer for testing. E. T. Vickerman, jr. and S. E. Edelstein. diags Elec W 117:1534+ My 2 '42; Abstract. Electronics 15:70+ S '42

How to make an automatic timer. H. E. Rudolph. il diags Am Phot 36:28-9 Mr '42

Improved time-interval meter for testing protective gear relays. R. W. Langley. diags Electrician 127:249-50 O 31 '41

TIMING devices—*Continued*

Low-frequency timing circuits. C. E. Berry. diags Electronics 15:84+ O '42

NEMA standardization of resistance weld and sequence timers. F. H. Roby. il diags Welding J 21:317-19 My '42

Photoflash synchronizer tester. P. A. Marsal. il diags Electronics 15:34-5 Ja '42

Radio-frequency device for detecting the passage of a bullet. C. I. Bradford. il diags Inst Radio Eng Proc 29:578-83 N '41

Second smashers; tuning fork takes a microsecond look at planes and guns. Fortune 26:60 N '42

Space-time recorder; drop testing of landing gear. F. N. M. Brown. J Aeronautical Sci 9:290-2 Je '42; Excerpts. Instruments 15:310-11 Ag '42

Taylor Fulscope time schedule controller. il Rubber Age 51:157 My '42; Same. R Sci Instr 13:302 Jl '42

Time bases. O. S. Puckle. bibliog diags Inst E E J 89 pt 3:100-19 Je '42; Abstracts. Electrician 128:127-8 F 13 '42; Electronics 15:70+ Jl '42; Discussion. Inst E E J 89 pt 3:119-22 Je '42

Timers and time meters; importance in efficient utilization of plant machinery and for control of manufacturing processes. C. H. Ridgley and J. L. Theisen. il diags Gen Elec R 45:569-72 O '42

Timers for welding control. S. A. Clark. il diags Electronics 15:65-9+ N '42

Timing motor uses hysteresis principle. il Elec W 117:1195-6 Ap 4 '42

Vernier-set timer. il Steel 111:179-80 S 14 '42

Versatile electro-kymograph. C. Moore and H. Bloomer. il diags Electronics 15:51+ Jl '42

TIMKEN-DETROIT axle company

Expanding war producer. H. Lawrence. Barron's 22:20 O 19 '42

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 F 16 '42

Sells $10,000,000 debentures privately. Comm & Fin Chr 156:1158 S 28 '42

TIN

Allied tin smelting facilities. Economist 142:337 Mr 7 '42

Effects of tin on the properties of plain carbon steel; abstract. J. W. Halley. Iron Age 150:42-4 O 22 '42

Electrochemical behavior of the lead-tin couple in carbonate solutions; abstract. G. Derge, H. Markus and A. Grobe. Iron Age 149:59 F 19 '42

Influence of tin on alloy steels; abstracts. G. R. Bolsover and S. Barraclough. Metal Prog 42:214-15 Ag '42; Iron Age 150:52 Ag 13 '42

Irreversible electrode potentials of tin; abstract. A. Y. Shatalov. Chem & Met Eng 49:168 Jl '42

Resistivity of antimony-tin single crystals at low temperatures. C. T. Lane and W. A. Dodd. Phys R 61:183-6 F 1 '42

Studies in superconductivity; Sn, Cb, Ta, and Pb wires. W. T. Ziegler, W. F. Brucksch, jr. and J. W. Hickman. bibliog Phys R 62:354-6 O 1 '42

Thermodynamic study of the tin-bismuth system. H. Seltz and F. J. Dunkerley. bibliog diag Am Chem Soc J 64:1392-5 Je '42

Tin now produced in Canada. T. A. Rickard. Min & Met 23:464 S '42

Tin through the ages, in arts, crafts, and industry. F. J. North. Chem & Ind 60:745-6 O 18 '41

See also
Cassiterite

Analysis

Apparatus for iodometric determination of tin. W. M. Rumberger. diag Ind & Eng Chem Anal ed 14:801 O 15 '42

Determination of traces of tin in malt beverages. I. Stone. Ind & Eng Chem Anal ed 13:791-2 N 15 '41

Entrainment of cobalt by tin(IV) sulfide. J. F. Flagg. bibliog Am Chem Soc J 63:3150-3 N '41

New time-saving method for analyzing tin. For Comm W 6:22 Ja 17 '42

Spark spectrographic analysis of commercial tin. B. F. Scribner. bibliog 2pls diags J Research Nat Bur Stand 28:165-90 F '42

Volumetric method for determining tin based on the formation of a dioxalatothiometastannate. H. H. Willard and T. Y. Toribara. Ind & Eng Chem Anal ed 14:716-18 S 15 '42

Conservation

Alternate specifications for tin bronze. Steel 110:68 Je 22 '42

Babbitt; lead-base for tin-base. A. H. Levy. Iron Age 150:49-50 N 5 '42

Britain tries de-tinning old cans. For Comm W 7:30 My 23 '42

Bronze gear alloys. Metal Prog 42:61 Jl '42

Cans minus tin. Fortune 26:32 S '42

Collapsible tin tubes regulations issued. Oil Paint & Drug Rep 141:59 Ap 6 '42

Conserving tin in solder. Electronics 14:84 N '41

Designing to save scarce non-ferrous metals. C. S. Cole. table Metals & Alloys 16:67-8 Jl '42

De-tinning of tin-plate. Engineering 154:148 Ag 21 '42

Detinning plants in 28 cities are listed. Iron Age 150:92H O 29 '42

Eight new de-tinning plants now planned by War production board. Steel 110:51 My 4 '42

Expansion of glass package use can save 357,000 tons of steel. Cer Ind 39:39 Ag '42

Guarding tin; WPB order cuts deeper into use of metal in cans. Business Week p73-4 F 21 '42

Lacquer may substitute for tin on milk cans. Manuf Rec 111:46 My '42

New containers conserving tin. Steel 111:49 S 28 '42

New position of tin; seizure of major sources of supply forces stringent measures of conservation. B. W. Gonser. il Min & Met 23:501-5 O '42

New solder; tin content reduced by eighty-seven per cent. Automobile Eng 32:309 Ag '42

New tin-free gear bronze; development by Hamilton gear & machine co. Mach 49:205 N '42

Properties of sand-cast low tin alloys. F. Hudson. Foundry 70:83-5, 167-9 O '42; Same. Steel 111:80, 82, 85+ N 2 '42

Reassembling gas meters with low-tin-content solders. C. P. Xenis and A. F. Kochendorfer. il Gas Age 90:44-5, 60+ O 8 '42; Same. Am Gas Assn Mo 24:340-2+ O '42; Same. Am Gas J 157:11-15 O '42

Reclaiming tin, used in the Bullard-Dunn process. F. F. Martin. il Iron Age 150:52-3 S 10 '42

Salvage of tin tubes promoted by drug groups. Ptr Ink 198:20 F 20 '42

Salvaging tubes; Tin salvage institute reclaims metals from used collapsible tubes. Business Week p83-4 My 23 '42

Secondary tin; recovery of tin from waste products. Economist 142:160 Ja 31 '42

Silver-lead solder; substitute for high-tin products. Chem Age (Lond) 47:102 Ag 1 '42

SAE-WEB subcommittee reports slashes in war-vehicle tin usage. S A E J 50:sup42-3 Je '42

Solders with less tin for wipes and joints. il diag Elec W 118:602-4 Ag 22 '42

Stretching tin. Business Week p64+ F 14 '42

Supplementary soldering experiments with low tin-content solders. Gas Age 90:19-20+ N 5 '42

Tin at a price; recovery from old cans. Business Week p80+ Mr 14 '42

Tin conservation; silver in lead-base babbitts. H. W. Gillett and R. W. Dayton. Metals & Alloys 15:584-7 Ap '42; Abstract. Power 86:564-5 Ag '42

Tin conservation studies underway. Oil Paint & Drug Rep 141:5+ Mr 16 '42

Tin economy in plain bearings. P. T. Holligan. Engineering 154:56-7, 66-7 Jl 17-24 '42; Same. Automobile Eng 32:367-9 S '42

TIN—Conservation—*Continued*
Tin is today's Cinderella metal. S A E J 50: sup31 Je '42
Tin recovery capacity increasing. Barron's 22:5 O 19 '42
Tin recovery from tinned cans. W. S. Smith. Metal Finishing 40:146-7 Mr '42
Tin shortage demands thorough trial of available substitute solders; abstract. Am Water Works Assn J 34:758-9 My '42
Tin successfully recovered from old tin cans. Eng & Min J 143:110 Je '42
Tin uses cut another 10 percent. Oil Paint & Drug Rep 141:7+ Je 15 '42
Tinless solders. Product Eng 13:403-4 Jl '42
Use high-lead solders and conserve tin; correlated abstract. Steel 110:74-5+ My 18 '42
Use of tin cut. Business Week p73-4 Ja 10 '42
Wartime changes in metal containers. R. H. Lueck. il Food Ind 14:57-63 Ag '42
What OEM says about tin supplies. il Food Ind 14:68-9 Ja '42

See also
Tin cans
Tubes (containers)

Prices

Straits tin at New York, monthly, 1929-1941; tabulation. Iron Age 149:187 Ja 1 '42

TIN, Powdered
Powder metallurgy of tin; manufacture and uses of tin and tin alloy powders; with list of patents. H. C. Watkins. bibliog il Metals & Alloys 15:751-7 My '42

TIN, Substitutes for
Lead alloys to replace tin for engine bearings; abstract. R. Boyer. Am Gas J 157:40 Ag '42
No more Straits tin for your bearings; how to keep machines running on dependable substitute bearing metals. A. B. Willi and others. il Power 86:318-21 My '42
Substitute for tin in Swedish containers. For Comm W 7:29-30 Je 27 '42
Substitutes for tin. Am Mach 86:98-100 F 5 '42

TIN alloys
Investigation of the factors governing the adhesion of tin-base bearing metals. W. T. Pell-Walpole, J. C. Prytherch and B. Chalmers. Metal Prog 42:438+ S '42
Powder metallurgy of tin; manufacture and uses of tin and tin alloy powders; with list of patents. H. C. Watkins. bibliog il Metals & Alloys 15:751-7 My '42
Railway bearing metals; their control and recovery. J. N. Bradley and H. O'Neill. il diag Engineering 154:298-300, 318-20, 339-40 O 9-23 '42; Same cond. Engineer 174:324-6, 347-8 O 16-23 '42
Temperature variation of the magnetic susceptibilities of antimony-tin alloys. S. H. Browne and C. T. Lane. diag Phys R 60: 899-905 D 15 '41
Tin alloys for British bearing metals. Automotive & Aviation Ind 86:25+ My 1 '42
Tin economy in bearing metals. Engineering 153:268 Ap 3 '42
Tin through the ages, in arts, crafts, and industry. F. J. North. Chem & Ind 60:745-6 O 18 '41

See also
Bearing metals
Bronze
Iron alloys—Tin alloys
Solder and soldering
Type metal

Analysis

Volumetric method for determining tin based on the formation of a dioxalatothiometastannate. H. H. Willard and T. Y. Toribara. Ind & Eng Chem Anal ed 14:716-18 S 15 '42

TIN cans
Allot funds for tin can processing plant; cans prepared for use in leaching process in precipitation of copper from mines. Eng N 128:302 F 19 '42
Bottle cap bust; scrap tin bubble breaks. Business Week p42 Ag 1 '42
Can companies face year of adjustment. Barron's 22:12 Ja 26 '42
Can companies in adjustment period. Barron's 22:12-13 Je 15 '42
Can industry outlook. Barron's 22:12 Ag 10 '42
Can output limitation designed to conserve 15,500 tons of tin. Steel 110:43 F 16 '42
Conservation order cuts number of can sizes. Ind Stand 13:54 Mr '42
Detinning plants in 28 cities are listed. Iron Age 150:92H O 29 '42
Diesel power doubles production, reduces costs; plant producing flotation reagent from tin cans. il Diesel Power 19:954-5 N '41; Same abr. Steel 110:76-7 Ja 19 '42
Difficulties of can makers. Barron's 21:12 N 24 '41
Food in cans; problems arising from tin shortage; electrolytic tin plate; practices of various companies. T. W. Lippert. il Iron Age 149:29-44 Ap 30 '42
Foods that may be packed in tin; quantities and can sizes; data from Tin conservation order M-81. Food Ind 14:49-50 Ap '42
Glass vs. tin cans. Business Week p46 Ja 24 '42
Guarding tin; WPB order cuts deeper into use of metal in cans. Business Week p73-4 F 21 '42
Home canners can get tin cans. For Comm W 6:20 Mr 14 '42
How the can companies are adjusting to war. A. B. Wells. il Mag of Wall St 70:26-7+ Ap 18 '42
How to salvage tin cans effectively. Eng N 129:635 N 5 '42
Influence of the steel-base composition on the rate of formation of hydrogen-swells in canned-fruit tinplate containers. T. P. Hoar, T. N. Morris and W. B. Adam. bibliog diags Iron & Steel Inst J 140:55-92, pl 9 no 2 '39; 144:133-55 no 2 '41; Discussion. 140:93-4 no 2 '39
Lacquer may substitute for tin on milk cans. Manuf Rec 111:46 My '42
Order prohibits tin-can packages. Oil & Gas J 40:24 F 19 '42
Outlook serious for metal containers, will improve in 1943. L. V. Burton. il Food Ind 14:41-3 Ap '42
Plan three plants to prepare used tin cans for copper precipitation. Steel 110:44 F 16 '42
Process developed for recovering tin from cans. W. S. Smith. Blast F & Steel Pl 30: 350 Mr '42; Same. Metal Finishing 40:146-7 Mr '42
Scrap by detinning. Business Week p38+ Ag 8 '42
Steel cans? Business Week p80 Mr 14 '42
Stretching tin. Business Week p64+ F 14 '42
Tin at a price; recovery from old cans. Business Week p80+ Mr 14 '42
Tin can bundles used discriminately in the basic open-hearth furnace. Steel 110:77+ F 16 '42
Tin cans. R. V. Wilson. Soap & San Chem 18:105-7 Jl '42
Tin cans for oil industry will be cut off by Nelson. Nat Pet N 34:8+ F 18 '42
Tin cans for salvage of tin. Min & Met 23: 388-9 Jl '42
Tin cans wanted. Business Week p24+ O 31 '42
Tin conservation order hits long list of foods. il Food Ind 14:65-8 Mr '42
Tin conservation project; abstract. E. J. Cameron and J. R. Esty. Food Ind 14:101 Ap '42
Tin successfully recovered from old tin cans. Eng & Min J 143:110 Je '42
Tinplate and the food supply. E. G. Jones. Chem & Ind 60:855-8 D 6 '41
WPB tin order. Mod Packaging 15:37-40 Mr '42
Warns of results from burning tin cans. Steel 110:27 F 2 '42
Wartime changes in metal containers. R. H. Lueck. il Food Ind 14:57-63 Ag '42

See also
American can company
Continental can company
Oil cans

TIN cans—*Continued*

Manufacture

Application of standard costs to an operating budget; Crown can company, Philadelphia. H. C. Heiser. N A C A Bul 24:121-36 O 1 '42

Can making; how electrical control speeds up production. il Elec R (Lond) 129:725-9 D 26 '41

TIN chlorides

Absorption spectra of CdF and SnCl. C. A. Fowler, jr. il Phys R 62:141-3 Ag 1 '42

Determination of small amounts of gold with stannous chloride. C. G. Fink and G. L. Putnam. bibliog Ind & Eng Chem Anal ed 14:468-70 Je 15 '42

Electric moments of inorganic halides in dioxane; chlorides of boron, aluminum, iron, silicon, germanium and tin. T. J. Lane, P. A. McCusker and B. C. Curran. bibliog Am Chem Soc J 64:2076-8 S '42

TIN compounds

Preparation and properties of potassium oxalatostannate. H. H. Willard and T. Y. Toribara. bibliog Am Chem Soc J 64:1759-61 Ag '42

Study of complex dioxalatothiometastannates. H. H. Willard and T. Y. Toribara. diag Am Chem Soc J 64:1762-5 Ag '42

Tri-*o*-tolyltin and the instability of organometallic free radicals. H. Morris, W. Byerly and P. W. Selwood. bibliog Am Chem Soc J 64:1727-9 Jl '42

TIN foil

OPM's order hits lead and tin foil. Mod Packaging 15:42A-42B D '41

Ross filter foils by evaporation. J. C. Clark and R. H. Esling. il R Sci Instr 13:383-6 S '42

Substitute for tinfoil in curing dental resins. Franklin Inst J 234:277-8 S '42

TIN industry and trade

Malaya's tin export duty and tin smelting in the United States. Economist 141:637 N 22 '41

New position of tin; seizure of major sources of supply forces stringent measures of conservation. B. W. Gonser. il Min & Met 23:501-5 O '42

New tin agreement. Economist 143:462 O 10 '42

New tin scheme. Economist 143:427-8 O 3 '42

Rubber and tin prospects. Economist 141:755-6 D 20 '41

Tin outlook. Survey of Cur Business 22:6-7 Ag '42

Tin quotas widened to increase output. Comm & Fin Chr 156:1171 O 1 '42

U.S.-Bolivia tin pact. Comm & Fin Chr 156:198 Jl 16 '42

Regulation

Developments in the field of commodities; OPM has taken over control of the trade. Barron's 22:6 Ja 5 '42

Government acts to save tin through allocations. Food Ind 14:77 Ja '42

Tin consumption restricted; will save estimated 15,000 tons in 1942. Steel 110:36 Ja 12 '42

Tin in U.S. and afloat placed under control. Oil Paint & Drug Rep 140:5 D 22 '41

Tin use curtailed 50% by OPM order; can manufacturers agree to cut tin requirements. Oil Paint & Drug Rep 141:3 Ja 5 '42

U.S. tin monopoly; government takes control. Business Week p65-6 D 27 '41

WPB tin order. Mod Packaging 15:37-40 Mr '42

See also
Tin—Conservation
Tin cans

Statistics

Non-ferrous metals at war. T. E. Lloyd. Iron Age 149:119-20+ Ja 1 '42

Non-Pacific tin; peak production and production in 1940. Economist 142:84 Ja 17 '42

Tin, 1941. H. H. Wanders. Eng & Min J 143:45, 53 F '42

Bolivia

Bolivian tin. Economist 143:238-9 Ag 22 '42

More Bolivian tin available. For Comm W 9:29 N 7 '42

Great Britain

Rubber and tin export quota. Economist 141:690-1 D 6 '41

Wales

Concentration of tinplate industry. Economist 141:697 D 6 '41

TIN metallurgy

Ore-separating process for tin. Science 95:sup8+ Je 26 '42

Recovering slime cassiterite by soap flotation; Pirquitas plant, in Argentina. E. Oberbillig and E. P. Frink. Eng & Min J 142:54-7 D '41

Scrap by detinning. Business Week p38+ Ag 8 '42

Tin by separation; Westinghouse laboratory electrostatic ore separator. il Business Week p76-7 Je 27 '42

Tin smelting in Rhodesia. Chem Age (Lond) 45:240 N 1 '41

Westinghouse develops electronic tin separator. il Soap & San Chem 18:74 Ag '42

TIN mines and mining

Bolivia

Bolivia, a buffer state, could become a fortress, its tin our hedge against a Pacific war. il map Fortune 25:68-77 Ja '42

Bolivia and tin. B. C. Borning. il Iron Age 149:39-45 F 19 '42

Bolivia; nation's economy rests upon export of tin, antimony, lead, tungsten, and other metals. G. V. Bilbao la Vieja. il map Eng & Min J 143:94-8 Ag '42

Oruro silver-tin district. D. F. Campbell. bibliog diags maps Econ Geol 37:87-115 Mr '42

Tin. 14p pa 5c Pan American union, Washington, D.C. '42

Congo, Belgian

Tin mining in the Belgian Congo. Engineering 153:510 Je 26 '42

Great Britain

Tin mining in Cornwall. Engineering 154:137 Ag 14 '42

Tin mining; prospects of its revival in Cornwall. il Elec R (Lond) 130:272-3 F 27 '42

Malaya, British

Tin situation. J. H. Robertson. Can Min J 63:150 Mr '42

South Dakota

Tin-bearing pegmatites of the Tinton district, Lawrence county. W. C. Smith and L. R. Page. plan maps U S Geol S Bul 922-T:595-630, pl 90-94; pa $1 Supt. of doc. '41

TIN ores

Oruro silver-tin district, Bolivia. D. F. Campbell. bibliog diags maps Econ Geol 37:87-115 Mr '42

Tin deposit at Majuba Hill, Pershing county, Nevada. W. C. Smith and V. P. Gianella. map U S Geol S Bul 931-C:39-55, pl 9-10; pa 25c Supt. of doc. '42

Tin deposits of northern Lander county, Nevada. C. Fries, jr. pl map U S Geol S Bul 931-L:279-94; pa 20c Supt. of doc. '42

See also
Cassiterite

TIN oxides

Adsorption and the energy changes at crystalline solid surfaces. G. E. Boyd and H. K. Livingston. bibliog diag Am Chem Soc J 64:2383-8 O '42

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Effect of tin in gold ruby glass. F. M. Veazie and W. A. Weyl. Am Cer Soc J 25:280-1 Je 1 '42

TIN oxides—*Continued*

Solubility of stannous oxide in perchloric acid. M. Gorman and P. A. Leighton. Am Chem Soc J 64:719-20 Mr '42

TIN plate

Allocates tin plate for Latin America. Comm & Fin Chr 154:1445 D 11 '41

De-tinning of tin-plate. Engineering 154:148 Ag 21 '42

Influence of the steel-base composition on the rate of formation of hydrogen-swells in canned-fruit tinplate containers. T. P. Hoar, T. N. Morris and W. B. Adam. bibliog diags Iron & Steel Inst J 140:55-92, pl 9 no 2 '39; 144:133-55 no 2 '41; Discussion. 140:93-4 no 2 '39

Substitutes for tin plate; abstract. C. E. Brown. Metals & Alloys 16:520+ S '42

Tinplate and the food supply. E. G. Jones bibliog Chem & Ind 60:855-8 D 6 '41

Tin plate output at new peak. Steel 110:417-20 Ja 5 '42

Tin-plate scrap in the open hearth. F. T. Sisco. Min & Met 23:514 O '42

WPB allocates tin plate, issues new steel plate priority forms. Iron Age 149:104+ F 19 '42

WPB tin order. Mod Packaging 15:37-40 Mr '42

Wartime changes in metal containers. R. H. Lueck. il Food Ind 14:57-63 Ag '42

See also

Tin cans

Tinning

Manufacture

Electrolytic process conserves tin. Blast F & Steel Pl 30:330, 464 Mr-Ap '42

Electrolytic tin-plate. Engineering 154:227-8 S 18 '42

Electrolytic tin plate production under way at C-I Irvin works. Iron Age 150:122 O 22 '42

Food in cans; problems arising from tin shortage; electrolytic tin plate; practices of various companies. T. W. Lippert. il Iron Age 149:29-44 Ap 30 '42

Longitudinal ridged structure in the tin coating of tin-plate. B. Chalmers and W. E. Hoare. diags Iron & Steel Inst J 144:127-32, pl 17 no 2 '41; Same cond. Engineering 153:79-80 Ja 23 '42

Rate of formation of tin-iron alloy during hot dip tinning as measured by a magnetic method. A. U. Seybolt. diag Am Soc for Metals Trans 29:937-46; Discussion. il 946-52 D '41

Steel companies adopt electrolytic plating lines to conserve tin. Steel 110:43 F 16 '42

Tinplate by radio; Westinghouse process of polishing electrolytic tinplate by radio wave fuses mirror-like surface in split second. il Business Week p74+ N 7 '42

Prices

Tin plate, Pittsburgh; 1929-1941; tabulation. Steel 110:364 Ja 5 '42

TIN plating

Alkali electrotinning. G. T. Bakhvalov. Chem Age (Lond) 47:297 O 3 '42

Food in cans; problems arising from tin shortage; electrolytic tin plate; practices of various companies. T. W. Lippert. il Iron Age 149:29-44 Ap 30 '42

New work on tin plating from ammonium stannous oxalate. F. C. Mathers and P. H. Johnson. Electrochem Soc Trans 81 (preprint 7):69-73 Ap '42

Tin plating; electrolytic process. Sci Am 167:8 Jl '42

Tin plating from the potassium stannate bath. M. M. Sternfels and F. A. Lowenheim. bibliog il Electrochem Soc Trans 82 (preprint 24):265-83 O '42

U.S. Steel installs electro plating lines to save 6,750,000 pounds tin. Steel 110:43 Mr 30 '42

TIN research

Progress in tin research. Engineering 153:406 My 22 '42

TIN salvage institute

Toothpaste tubes to tanks. L. Bristol. Adv & Sell 35:87-8 Ag '42

TIN sulfide

Entrainment of cobalt by tin(IV) sulfide. J. F. Flagg. bibliog Am Chem Soc J 63:3150-3 N '41

Kinetics of hydrogen consumption, oxygen elimination and liquefaction in coal hydrogenation; nature of the catalytic reactions. H. H. Storch, C. O. Hawk and W. E. O'Neill. bibliog Am Chem Soc J 64:230-6 F '42

TINNING

Hot-tinning difficult mild steels. W. E. Hoare and H. Plummer. 28p bibliog(p28) Tin research inst, Battelle memorial inst, 505 King av, Columbus, Ohio '41

Lead and tin undercoats for silver plating. A. Bregman. il Iron Age 149:47-52 Mr 5 '42

Longitudinal ridged structure in the tin coating of tinplate. B. Chalmers and W. E. Hoare. diags Iron & Steel Inst J 144:127-32, pl 17 no 2 '41

New tinning oils investigated; abstract. W. E. Hoare. Iron Age 149:69 Mr 26 '42

Oils for use in tinning. Engineering 152:497 D 19 '41

Rate of formation of tin-iron alloy during hot dip tinning as measured by a magnetic method. A. U. Seybolt. diag Am Soc for Metals Trans 29:937-46; Discussion. il 946-52 D '41

Research on hot-tinning difficulties; abstract. W. E. Hoare and H. Plummer. Engineering 153:160 F 20 '42

Review of hot-dip galvanizing and hot-dip tinning activities during the year 1941. W. G. Imhoff. Metal Finishing 40:12+ Ja '42

Tin finish can be applied rapidly, easily. Sci Am 165:335 D '41

Tinned tubing; Linderme tube co. B. J. Higgins. il Steel 109:88 D 1 '41

Tinning of difficult steels. W. E. Hoare and H. Plummer. Metal Prog 41:500+ Ap '42

TINTING. See Dyes and dyeing—Fugitive dyes

TIPPING

Tips as wages under Fair labor standards act; decision of United States Supreme court. Monthly Labor R 54:996 Ap '42

Tips collected by red caps included in minimum wages. Ry Age 112:503 Mr 7 '42

TIRE fabrics

Cotton vs. rayon; rumpus in Senate over tire cord for army. Business Week p19-20 O 31 '42

Rayon in tires for military use, conserves rubber; Cordura. Sci Am 167:124-5 S '42

Synthetics; Cordura rayon. C. P. Kidder. Automobile Eng 31:457 D '41

Tough cords of a special type of rayon. Science 96:sup11 Jl 24 '42

TIRE factories

See also

Rubber factories

Tires, Automobile—Manufacture

Electric equipment

Electric drives for continuous processing machinery. J. Z. Linsenmeyer. il diags India Rubber W 106:359-60 Jl '42

TIRE industry and trade

It still takes repair parts and tires to keep cars on the road; tire manufacturers' plan. J. R. Custer. il Automotive & Aviation Ind 87:17-18+ Ag 1 '42

Mail order entry; Firestone launches catalog business designed to keep retail outlets alive. il Business Week p68+ O 31 '42

Our rubber lifeline. J. R. Custer. il Automotive Ind 86:36-9+ Ja 15 '42

Retailers baffled by war problems; get little help from manufacturers; survey of new-car dealers, tire stores and appliance dealers in ten cities. P. Salisbury. il Sales Management 50:22-4 My 1 '42

Rubber supplies and needs. L. Henderson. India Rubber W 106:45+ Ap '42

Saving tire outlets; diversified retailing. Business Week p18-20 Jl 11 '42

TIRE industry and trade—*Continued*

There will be a battle royal for car servicing dollars; tire companies use tire conservation theme in drive for lubrication and maintenance work. il Nat Pet N 34:33-6 F 11 '42

Tires for all; the rubber industry's program. il Nat Pet N 34:9-10 Jl 29 '42

See also

Rubber industry and trade

also Firestone tire and rubber company; Goodyear tire and rubber company

Advertising

Tire manufacturer salvages dealer organization; Goodrich of Canada, Tire savers' club. il Ptr Ink 200:20, 24 Jl 3 '42

Regulation

Amendments to supplementary order no. M-15-C, to restrict transactions in new rubber tires, casings, and tubes. India Rubber W 105:585-7 Mr '42

Government to buy up tires under new tire return plan. Nat Pet N 34:11 Mr 4 '42

Maximum prices set on waterproof rubber footwear and used tires; other OPA news. India Rubber W 106:65-6 Ap '42

OPA given power to ration all tires. Comm & Fin Chr 155:1873 My 14 '42

OPA raises tire quota. Comm & Fin Chr 155:958 Mr 5 '42

OPA tire orders. Comm & Fin Chr 155:581 F 5 '42

OPM halts all tire sales; prepares rationing system. Nat Pet N 33:15 D 17 '41

Prohibits unauthorized importation of new tires. Comm & Fin Chr 155:954 Mr 5 '42

Rubber rationing; we've got to take it and like it. Bus Transportation 21:72 F '42

Tire dealers and wholesalers under licensing regulations. Rubber Age 51:418 Ag '42

Tire dealers are questioned on plan to monopolize sales. Nat Pet N 34:8+ Mr 11 '42

Used tires and tubes put under maximum prices by the O.P.A.; other regulations. Rubber Age 51:56-7 Ap '42

See also

Tires, Automobile—Rationing

Tires, Motor bus—Rationing

Securities

Mixed war prospects for motors, accessories and tires; position of leading stocks. Mag of Wall St 69:602-5 Mr 7 '42

Position of leading automobile, truck, auto accessory and tire stocks. Mag of Wall St 70:552-3 S 5 '42

Statistics

Distributers' tire stocks in the United States, October 1, 1941; quarterly survey. India Rubber W 105:269+ D '41

Distributers' tire stocks in the United States, January 1, 1942. E. G. Holt. India Rubber W 106:38+ Ap '42

Tire and drug reports by SEC Survey of American listed corporations. Comm & Fin Chr 155:2308 Je 18 '42

Tire production statistics. Published in monthly numbers of India rubber world

Tire supplies sharply reduced. Barron's 21:6 N 17 '41

U.S. tire and tube statistics. Published in monthly numbers of Rubber age

Canada

Tires to be available for road-building equipment. Roads & Bridges 80:94-5 F '42

Russia

Synthetic rubber tires in Russia. India Rubber W 106:76-9 Ap '42

TIRE rims

Wide base rim; abstract. W. E. Shively. India Rubber W 105:268 D '41

Wide-base rims. Business Week p64 O 17 '42

TIRES, Airplane

Tires for Alaska; rubber-steel tread. Business Week p70+ Je 13 '42

United States rubber company; steel-studded tread design for airplane tires. il Aeronautical Eng R 1:115 Ag '42

TIRES, Automobile

Butyl rubber, synthetic made from petroleum; abstracts. W. S. Farish. Comm & Fin Chr 155:1153 Mr 19 '42; Oil & Gas J 40:22 Mr 19 '42

Butyl rubber tires. F. Thone. Science 96:sup10 S 18 '42

Civilian tires are essential to sustained war production. Oil & Gas J 41:25 S 17 '42

Civilians must get tires, Baruch report emphasizes; with text of report. Nat Pet N 34:5, 21-2+ S 16 '42

Comparison of synthetic rubbers and reclaimed rubber with crude rubber as a tire and recap material. Nat Pet N 34:22 O 14 '42; Same. Automotive & Aviation Ind 87:24 O 15 '42; Same. Rubber Age 52:60 O '42

Effect of broken glass on tires. Rubber Age 52:36 O '42

Effect of rubber shortage on oil. C. L. Burrill. Nat Pet N 34:16-18, 26 Ap 22 '42

Girdles and sandals for tires. il Textile World 92:61-2 O '42

Government begins buying of extra tires, OPA outlines 5-point tires-for-all plan. Comm & Fin Chr 156:1445 O 22 '42

Government fund to buy tires. Comm & Fin Chr 155:1940 My 21 '42

Inclusion of civilian tires is urged in long-term policy; abstract. W. S. Farish. Oil & Gas J 40:16 Ap 9 '42

It still takes repair parts and tires to keep cars on the road; tire manufacturers' plan. J. R. Custer. il Automotive & Aviation Ind 87:17-18+ Ag 1 '42

ODT to inventory tires on commercial vehicles. Comm & Fin Chr 156:1172 O 1 '42

P.I.W.C. proposes program to keep cars on the road; 3-point program for increasing flow of scrap rubber to reclamation plants. Nat Pet N 34:22+ Je 10 '42

Petroleum industry war council will see demonstration of tubeless tire. diags Oil & Gas J 41:27 N 5 '42

RFC to purchase excess tires from consumers. India Rubber W 106:267 Je '42

Riegel co. makes paper tires experimentally. il Paper Tr J 114:64 Je 25 '42

Rolling resistance of pneumatic tires as a factor in car economy. W. F. Billingsley and others. S A E J 50:37-9+ F '42; Same cond. Automobile Eng 32:325-6 Ag '42

Sandals for tires; made of rug-like cotton impregnated with asphalt emulsion. il Business Week p16-17 Ag 29 '42

Six steps that have cut tire usage by 45 per cent in southern California. L. S. Flint. il Am Gas J 157:17-18+ S '42

Static electric problems in tires. J. W. Liska and E. E. Hanson. bibliog diags Ind & Eng Chem 34:618-24 My '42

Stimulation of scrap-rubber collection fits PIWC plan. Oil & Gas J 41:26-7 Je 11 '42

Stopgap tires; Dow's Thiokol soon will reach the pilot-plant stage. il Business Week p58-9+ Jl 18 '42

Study of stresses between tire and road. A. H. D. Markwick and H. J. H. Starks. Can Eng R & B 79:52 D '41

Thermal decomposition of natural and synthetic rubber stocks. I. B. Prettyman. bibliog diag Ind & Eng Chem 34:1294-8 N '42

Thiokol by du Pont; role in interim tire field. Business Week p17-18 Ag 15 '42

Tire and rubber situation. P. W. Litchfield. Franklin Inst J 234:180-3 Ag '42

Tire manufacturing industry presents plan on civilian tires with visual display of facts. Rubber Age 51:420 Ag '42

Tire pickup; how collection job will be handled. il Business Week p50-1 O 31 '42

Tire recapping and wheel balancing. Nat Pet N 33:1+ D 31 '41

Tireless inventors; amateurs' zealous efforts to solve the rubber crisis. Business Week p20+ Ap 18 '42

Tires for all; the rubber industry's program. il Nat Pet N 34:9-10 Jl 29 '42

Tires of Thiokol? Business Week p19-20 Je 13 '42

TIRES, Automobile—*Continued*

WPB studies mileage curb to save tires. Comm & Fin Chr 156:465 Ag 6 '42

Wooden tire experiments. il Mass Transportation 38:130 My '42

See also

Rubber industry and trade

Care

Asks auto speed cut to conserve tires. Comm & Fin Chr 155:1161 Mr 19 '42

Care and maintenance of rubber tyres. Mech Handling 29:192-3 O '42

Company's tire-saving rules include switching the spare. Nat Pet N 34:12 Ja 28 '42

Essential mileage saves tires, gas. Elec W 117:2058 Je 13 '42

How stations can become official tire inspectors. Nat Pet N 34:8 S 30 '42

How to keep cars rolling. J. J. Newman. Nat Pet N 34:10 F 4 '42

Little planning will save tires; service policies; Indianapolis power & light company. Elec W 118:496+ Ag 8 '42

Many thousands of tires die young for lack of air. il diags Nat Pet N 34:16-16a F 25 '42

Office of price administration; steps to save rubber now being wasted by ignorance of tire care. Am Gas J 157:36 Ag '42

Spare those tires! W. J. Kirkpatrick. il Nat Safety N 46:29+ Ag '42

Surface treatments for rubber; protecting stored tires. W. L. Nelson. Oil & Gas J 40:43 Ap 2 '42

Ten rules for prolonging the life of your tires. Sales Management 50:36 F 1 '42

There will be a battle royal for car servicing dollars; tire companies use tire conservation theme in drive for lubrication and maintenance work. il Nat Pet N 34:33-6 F 11 '42

Tire conservation. Dom Eng 160:53+ O '42

Tire manufacturer salvages dealer organization; Goodrich of Canada, Tire savers' club. il Ptr Ink 200:20, 24 Jl 3 '42

Tires wear quickly if wheels are out of line. il Nat Pet N 34:24+ Mr 11 '42

12 ways to save your tires. Am Business 12:36 F '42

27% gas and tire saving made by changing sales routes. B. Bigelow. Ptr Ink 200:17-18 Jl 3 '42

Venezuelan instructions issued to prolong the life of tires. For Comm W 6:17 Ap 4 '42

Washington authorities tell how to get longer tire life. Nat Pet N 34:24 Mr 4 '42

Wheel balancing extends tire life up to 30%. il Nat Pet N 34:23-4 Mr 4 '42

See also

Tires, Motor bus—Care

Tires, Motor truck—Care

Conservation

Motorists now save tires beyond Baruch request; reports on public reaction to national gasoline rationing. Nat Pet N 34:3-8 N 4 '42

Several new tire-saving devices developed and introduced. il Rubber Age 51:517 S '42

Inspection

OPA's tire inspection program is outlined; how to become a tire inspector. Nat Pet N 34:26, 28 O 21 '42

25c per car for tire inspection too low, stop watch test shows; protests numerous. il Nat Pet N 34:34-5 N 4 '42

Manufacture

Butyl rubber properties and compounding. J. P. Haworth and F. P. Baldwin. bibliog Ind & Eng Chem 34:1306-8 N '42

Colloidal carbon compounding for conservation. C. R. Haynes. India Rubber W 105:478-80 F '42

Compounding Buna S synthetic rubber; summary on Buna S and whole tire reclaim combinations. India Rubber W 107:39-41 O '42

Compounding Buna S synthetic rubber; summary on inner tube compounds. India Rubber W 106:572 S '42

Effect of carbon blacks in synthetic tire compounds, standardized American butadiene-styrene rubber. B. S. Garvey, jr. and J. A. Freese, jr. bibliog Ind & Eng Chem 34:1277-83 N '42

Merry-go-round; method of continuous tire building. T. J. Newton. il diags India Rubber W 105:273-5 D '41

Naftolen as a plasticizer and extender for rubber in carbon black compounds. F. Rostler and V. Mehner. India Rubber W 105:473-7 F '42

Processing characteristics of synthetic tire rubber. B. S. Garvey, jr., M. H. Whitlock and J. A. Freese, jr. il diags Ind & Eng Chem 34:1309-12 N '42

Synthetic rubber tires in Russia. India Rubber W 106:76-9 Ap '42

See also

Tire fabrics

Tire factories

Merchandizing

See Tire industry and trade

Mileage

Banish tire rationing jitters, boost the morale of motorists; data on tire mileage. Nat Pet N 34:5+ Ja 21 '42

Newspaper ads help to calm tire jitters. il Nat Pet N 34:32 Mr 25 '42

100,000 miles of life from synthetic tire predicted. G. Egloff. Nat Pet N 34:38 N 4 '42

Tire mileage records given for 60 drivers. Nat Pet N 34:34+ Ja 14 '42

Tires last longer when used in cool weather. Nat Pet N 34:15 F 18 '42

Tires prove they can take it—with high mileage on rough roads. Nat Pet N 34:12 Ja 28 '42

Prices

OPA puts price ceiling on used tires, tubes. Comm & Fin Chr 155:1149 Mr 19 '42

OPA sets maximum prices on tire renewal, carcass. Nat Pet N 34:7+ Ja 14 '42

OPA sets price ceilings on used tires and tubes. Nat Pet N 34:9-10 Mr 18 '42

Some recapping, tire carcass ceilings increased by OPA under mileage ration. Nat Pet N 34:14 N 4 '42

Rationing

All motorists to get tires under new plan, OPA says. Nat Pet N 34:3+ O 14 '42

Amendments are issued on tire and tube rationing program. Rubber Age 50:368 F '42

Canadian rubber-tire rationing regulations. For Comm W 7:13-14 Je 6 '42

Checklist of merchandising changes likely to follow rubber rationing. B. Duffy. Adv & Sell 35:27 Ap '42; Same cond. Management R 31:172-3 My '42

Conservation of automotive equipment. J. Y. Ray. Edison Elec Inst Bul 10:361-2+ O '42

Dewey, rubber deputy director; government plan for tires-for-all. India Rubber W 107:180-1 N '42

Excerpts from Priority manual for engineering, science, and management, war training, August, 1942, page 7; correspondence concerning tire certificates for instructors. J Eng Educ 33:97-100 O '42

Facing tire facts. Business Week p69 S 5 '42

Henderson attacked for talk of taking tires off of cars. Nat Pet N 34:9 Mr 11 '42

Hot-tire roundup. Business Week p20+ F 21 '42

Impact of war on advertising. Adv & Sell 35:180a-180c F '42

OPA gas rationing concept changes to mileage control. O. H. Knight. Nat Pet N 34:3+ S 30 '42

OPA loosens tire rules to let dealers stock up. Nat Pet N 34:18 O 28 '42

OPA raises tire quota. Comm & Fin Chr 155:958 Mr 5 '42

TIRES, Automobile—Rationing—*Continued*

OPA sets quotas on tires and tubes; answers questions on tire rationing regulations. Nat Pet N 34:19 Ja 7 '42
OPM rations tires; with text of order. Nat Pet N 33:1, 6-7, 16, 20-1 D 31 '41
Ration retread tires. Comm & Fin Chr 155: 763 F 19 '42
Rationing of retreads and retreading instituted by the O.P.A. Rubber Age 50:456-7 Mr '42
Rationing of rubber starts January 4. Comm & Fin Chr 155:29 Ja 1 '42
Rationing of tires. Rubber Age 50:284-5 Ja '42
Rationing pattern. il Business Week p14-15 Ja 3 '42
Rationing programs are based on long studies of war needs. S A E J 50:sup20+ Mr '42
Refiners study the effects of changed driving habits; relation of gasoline consumption to speed and to tire rationing. W. T. Ziegenhain. Oil & Gas J 40:51 F 26 '42
Retreaded and recapped tires rationed. India Rubber W 105:581-2 Mr '42
Rubber for essential transport. C. F. Phillips. Transit J 86:380-1 O '42
Rubber shortage and real estate. Bankers M 144:353-4 Ap '42
Several new amendments to tire rationing regulations are issued. Rubber Age 51:230-1 Je '42
Some possible effects of tire rationing. Barron's 22:12 Ja 5 '42
Supplementary order No. M-15-C to restrict transactions in new rubber tires, casings, and tubes. India Rubber W 105:481-3 F '42
Swap riders get left-over quotas of recapped tires. Nat Pet N 34:11 O 21 '42
System of rationing established for tires and tubes in Cuba and in the Dominican Republic. For Comm W 6:10-11 Ap 4 '42
Tire ban reduces jobber calls and deliveries, but orders are larger; interviews with grocery and hardware wholesalers. P. Salisbury. Sales Management 50:36, 40-1 Mr 1 '42
Tire rationing inaugurated in India. For Comm W 9:19 O 3 '42
Tire rationing is to be sharply curtailed in future. Rubber Age 51:504-5 S '42
Tire rationing plan. India Rubber W 105:389 Ja '42
Tire rationing regulations. V. P. Ahearn. Rock Prod 45:36+ Mr '42
Tire rationing rules explained. M. Mulcahy. S A E J 50:sup31-2 Mr '42
Tire rationing upheld. Comm & Fin Chr 155: 1063 Mr 12 '42
Tire rationing will cause insurance problems. Nat Underw 46:4+ Ja 1 '42
Tires for war workers only when necessary. Comm & Fin Chr 155:1545 Ap 16 '42
Tires will be made available for all essential cars. Rubber Age 52:56-7 O '42
Tough on taxis; tire problem beginning to look serious. il Business Week p19 Ap 18 '42
Transportation crisis. R. Bill. Sales Management 50:56-60+ My 15 '42
Used tires and tubes and certain footwear rationed. India Rubber W 107:183-4 N '42
Used tires frozen by OPA; acts to heed Baruch advice. Nat Pet N 34:8 O 7 '42
Utilities war-time transportation problems. J. G. Holtzclaw. Edison Elec Inst Bul 10:233-4+ Je '42
Will salesmen be able to get priority on tires for their cars? Sales Management 50:58-9 F 1 '42

See also

Tires, Motor bus—Rationing
Tires, Motor truck—Rationing

Repair

Sectional steam and air bags. il Rubber Age 50:137-8 N '41

Retreading and recapping

Camelback for tires. Comm & Fin Chr 155: 1638 Ap 23 '42
Chemical reclaim process announced by Boston woven hose & rubber co. il Rubber Age 52:57 O '42
Curb on retreads. Business Week p28-9 Ja 24 '42
Final plans laid for Thiokol-Dow synthetic plant. Nat Pet N 34:15 Jl 1 '42
Life history of 10 tires. M. E. Nuttila. Nat Pet N 34:37-8 Ja 14 '42
Limitation order no. L-61; to regulate production and distribution of rubber tire retreading and recapping equipment. India Rubber W 106:37+ Ap '42
Longevity of recapped tires proven by motorists' reports. Nat Pet N 34:12 F 11 '42
OPA rations camelback supply, passenger car recapping halted. Nat Pet N 34:10+ F 18 '42
OPA sets maximum prices on tire renewal, carcass. Nat Pet N 34:7+ Ja 14 '42
Ohio Standard enters tire recapping field. il Nat Pet N 34:21-5 Ja 14 '42
Rationing of retreads and retreading instituted by the O.P.A. Rubber Age 50:456-7 Mr '42
Recap equipment to be rationed; tire dealers seek sales monopoly. Nat Pet N 34:9-10 F 4 '42
Recap to keep 'em rolling. J. J. Wilson. il Sci Am 166:173-5 Ap '42
Reconditioned tires. diags Consumers' Research Bul 9:3-6+ Mr '42
Renewal holds key to tire situation. il Nat Pet N 34:21-2, 24+ Ja 7 '42
Replacing tread on tires. M. E. Nuttila. Diesel Power 20:213+ Mr '42; Abstract. Automotive & Aviation Ind 86:20 F 1 '42
Retreaded and recapped tires rationed. India Rubber W 105:581-2 Mr '42
Retreaders' boom. Business Week p26 D 6 '41
Retreading; abstract. F. H. Whitehouse. India Rubber W 105:258 D '41
Retreading is the answer to the ban on the purchase of new tires. W. R. Carter. il Roads & Bridges 80:80, 82+ F '42
Rubber recycling plan is proposed as tire solution; scrap certificates to be exchanged for recaps. J. E. Pogue. Oil & Gas J 41: 67 Je 25 '42
Tire renewal equipment may get priority when rationing plan for new tires starts. Nat Pet N 33:5+ D 24 '41

Testing

Tyre testing; some interesting equipment employed in America. il Automobile Eng 32:269-71 Jl '42

Theft

Stop, thief! simple protective method. il Dom Eng 159:46 My '42
Thefts from dealers boost tire losses. Nat Underw 46:5 Ap 23 '42
Tire thefts up in June. Weekly Underw 147: 87 Jl 11 '42

Used tires

OPA puts price ceiling on used tires, tubes. Comm & Fin Chr 155:1149 Mr 19 '42

TIRES, Motor bus

Static electric problems in tires. J. W. Liska and E. E. Hanson. bibliog diags Ind & Eng Chem 34:618-24 My '42

Care

In line or not in line; how tire life can be extended by front end check up. H. M. Smith. il Bus Transportation 21:282-3 Je '42
Is rubber a maintenance problem? control measures of Capital transit co. Bus Transportation 21:252-3 Je '42
More life from tires; correct selection and proper inflation conserves rubber. J. E. Powers. Transit J 85:431 N '41
Rubber, today's most critical problem. il Bus Transportation 21:278-81 Je '42
Saving tires with street-clearing magnet. il Mass Transportation 38:80 Mr '42
Spare those tires. Bus Transportation 21:97 F '42
Tire saving through proper care. Mass Transportation 38:75-6 Mr '42

TIRES, Motor bus—*Continued*

Rationing

Buses in list A in tire rationing. Bus Transportation 21:197 Ap '42

Rubber for essential transport. C. F. Phillips. Transit J 86:380-1 O '42

Rubber rationing; we've got to take it and like it. Bus Transportation 21:72 F '42

Temperature

Air conditioned tires. J. A. Schadwald. il Bus Transportation 21:333 Jl '42

TIRES, Motor truck

Care

Conserving truck tires. Roads & Sts 85:47-8 Ag '42

Hints to contractors on care of truck tires. G. F. Turner. Roads & Bridges 80:74+ Ap '42

Stretching rubber for tire mileage. F. E. Kunkel. Am Gas J 156:49-50 My '42

What to do about the tire problem. il Food Ind 14:61 F '42

Rationing

Big truck operator favored in new tire rationing plan. Nat Pet N 34:10 F 11 '42

How new tire restrictions affect the soft drink industry. Barron's 22:12 Jl 27 '42

Rubber tire users eligible for needs listed. Oil Paint & Drug Rep 141:3+ Ja 5 '42

TIRES, Paper

Riegel co. makes paper tires experimentally. il Paper Tr J 114:64 Je 25 '42

TIRES, Rubber

Improved Black Rock debeading equipment. il India Rubber W 106:276 Je '42; Rubber Age 51:240+ Je '42

Industrial trucks; effect of floor conditions on power consumption and tires. C. S. Schroeder. Mech Eng 64:588+ Ag '42; Abstract. Engineering 154:285 O 9 '42

Low heat generation channel carbon black for military-type tires. C. R. Johnson. India Rubber W 106:257 Je '42

Redesigned tires for earthmoving equipment. il Roads & Bridges 80:46 Ag '42

Rubber symposium; SAE Cleveland section meeting. il S A E J 50:sup18-20+ O '42

Selection of earth-moving tires for better performance and economy. W. Lee. il diag S A E J 50:73-9 Mr '42

Selection of tires for better earth-moving efficiency. L. W. Fox. S A E J 50:176 My '42

Static electricity and its effect on car radio performance. S. M. Cadwell, N. E. Handel and G. L. Benson. diags News Ed 19:1139-41 O 25 '41; Abstract. Automobile Eng 32:310-12 Ag '42

WPB controls equipment of rubber tire construction. Comm & Fin Chr 155:1871 My 14 '42

See also

Tires, Automobile

Care

Don't abuse rubber; how to prolong its life. W. S. Richardson. il Factory Management 100:94 F '42

Storage

Preservation of tires and other rubber goods in storage. Consumers' Research Bul 9:10 Mr '42

TIRES, Steel

Accurate recording of tyre profiles. C. W. Newberry. il diags Engineering 153:361-3 My 8 '42

Acid open hearth practice in the manufacture of tire steel. E. C. Houston. il diags Blast F & Steel Pl 29:514-18, 631-3+, [1116-18] My-Je, N '41

Depression experience of value in present emergency. L. M. Westerhouse. Ry Mech Eng 116:184 Ap '42

War maintenance; tires and wheels. il Coal Age 47:99-102 O '42

Wearing qualities of road locomotive tires. C. P. Brooks. Ry Mech Eng 116:185-6 Ap '42

TIRES, Tractor

Selection of earth-moving tires for better performance and economy. W. Lee. il diag S A E J 50:73-9 Mr '42

Tractor lugs made of wood to conserve rubber. Sci Am 167:124 S '42

TIRES, Trailer

Two tires for 5 trailers, says WPB. Arch Rec 91:24 Ap '42

TIRES, Wooden

Uses wooden tires and horse wagons to save milk routes. il Food Ind 14:72-3 Jl '42

Wooden tire experiments. il Mass Transportation 38:130 My '42

TISSUE paper

See also

Toilet paper

TISSUES

Carbon dioxide utilization in animal tissues. E. A. Evans, jr. bibliog Science 96:25-9 Jl 10 '42

Grinder for homogenizing bacterial clumps or infected tissues. J. H. Hanks. diag Science 94:615-16 D 26 '41

Properties of the isolated macromolecular component of normal chick embryo tissue. A. R. Taylor and others. bibliog Science 94:613-15 D 26 '41

Sectioning and staining refractory materials in paraffin. T. N. Tahmisian and E. H. Slifer. Science 95:284 Mr 13 '42

Use of tertiary butyl alcohol in microtechnique. R. E. Stowell. Science 96:165-6 Ag 14 '42

See also

Plant cells and tissues

Analysis

Apparatus for extraction of lipoids from wet tissues. F. E. Holmes. bibliog diags Ind & Eng Chem Anal ed 13:918-22 D 15 '41

Extraction and assay of nicotinic acid from animal and plant tissues; comparison of methods. V. H. Cheldelin and R. R. Williams. bibliog Ind & Eng Chem Anal ed 14:671-5 Ag 15 '42

Extraction of biotin from tissues. R. C. Thompson, R. E. Eakin and R. J. Williams. bibliog Science 94:589-90 D 19 '41

Modified micro-fermentation method for the estimation of thiamine. E. S. Josephson and R. S. Harris. Ind & Eng Chem Anal ed 14:755-6 S 15 '42

Spectrophotometric estimation of pentachlorophenol in tissues and water. W. Deichmann and L. J. Schafer. diag Ind & Eng Chem Anal ed 14:310-12 Ap 15 '42

Culture

Apparatus for roller tube tissue culture. D. R. Coman and N. Q. Stabler. diags Science 94:569-70 D 12 '41

Dr Carrel's immortal chicken heart. A. H. Ebeling. il Sci Am 166:22-4 Ja '42

Growth of cancer tissue in the yolk sac of the chick embryo. A. Taylor, J. Thacker and D. Pennington. Science 96:342-3 O 9 '42

Preparation of sterile proteins in the lyophiled state. I. R. Railton, B. Cunningham and P. L. Kirk. Science 94:469-70 N 14 '41

TITANIA. See Titanium oxides

TITANIUM

Creep strength of 18-8 Ti. A. M. Portevin. Metal Prog 41:88 Ja '42

Emergency conservation of manganese; titanium to control sulfur. Metal Prog 40:893 D '41

Influence of columbium or titanium additions to 5 Cr Mo steel. C. L. Clark. Oil & Gas J 40:39+ Ap 2; 72 Ap 23 '42

Isotopic weights of sulphur and titanium. T. Okuda and K. Ogata. Phys R 60:690-1 N 1 '41

Minor metals, 1941. A. F. Matthews. Eng & Min J 143:51 F '42

TITANIUM—*Continued*

Occurrence and origin of the titanium deposits of Nelson and Amherst counties, Virginia. C. S. Ross. map U S Geol S Professional Pa 198:1-59, pl 1-19; pa 25c Supt. of doc. '41

Some properties of phosphorus-titanium steels. G. F. Comstock. il Am Soc for Metals Trans 30:337-53; Discussion. 354-60 Je '42

Titaniferous Adirondack ores being reworked. F. J. Oliver. il map Iron Age 149:53-9 Mr 5 '42

Titanium and the MacIntyre development. I. D. Hagar. Paint Oil & Chem R 103:18, 24-8+ D 18 '41

Titanium deoxidized steel shows good sulphide distribution. G. F. Comstock. il Foundry 70:135-6, 204-5 Ap '42

See also

Rutile

Analysis

Mercury cathode method for determining small amounts of titanium and similar metals in alloys. M. H. Steinmetz. diag Ind & Eng Chem Anal ed 14:109 F 15 '42

Routine colorimetric determination of titanium in chromium steels; separation of titanium and chromium by perchloric acid. L. Silverman. Ind & Eng Chem Anal ed 14:791-2 O 15 '42

Volumetric determination of iron and titanium. W. M. McNabb and H. Skolnik. bibliog Ind & Eng Chem Anal ed 14:711-13 S 15 '42

TITANIUM oxides

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Colloidal properties of aqueous dispersions of titanium dioxide. S. W. Martin. bibliog diags Paper Tr J 115:31-8 Jl 23 '42

Electrical conductivity of titanium dioxide. M. D. Earle. diag Phys R 61:56-62 Ja 1 '42

Glassforming nature of oxides with special reference to tantala, titania, and beryllia. K. Sun and A. Silverman. bibliog Am Cer Soc J 25:97-100 F 15 '42

Titanium dioxide under allocation. Oil Paint & Drug Rep 140:3+ D 1 '41

Titanium oxide as an ingredient of porcelain enamel frits. S. G. Tinsley. Cer Ind 38:36, 38-9 Mr '42

Titanium oxide order. F. Leary. Oil Paint & Drug Rep 140:3+ D 8 '41

Titanium pigments ceiled at Oct. 1 level. Oil Paint & Drug Rep 141:7 Ja 5 '42

See also

Octahedrite

Rutile

TITLES of honor and nobility

King of England's birthday honors list. Science 96:129-30 Ag 7 '42

TITRATION. See Volumetric analysis

TOBACCO

Cooper stages a comeback; plywood collapsible barrel for tobacco, etc. A. M. Hoffmann. il Comp Air M 47:6819-20 Ag '42

Estimating the density of tobacco tissue. F. R. Darkis, P. M. Pedersen and P. M. Gross. bibliog Ind & Eng Chem Anal ed 14:8-9 Ja 15 '42

Flue-cured tobacco; apparent density and its correlation with chemical composition. F. R. Darkis, P. M. Pedersen and P. M. Gross. bibliog Ind & Eng Chem 33:1549-50 D '41

Fourth new species of nicotiana from Peru. T. H. Goodspeed. pls Univ of Calif Pub in Botany v 18 no 8:195-203 bibliog(p198) '41

Further data on the cultivation of tobacco among the Pueblo Indians. L. A. White. Science 96:59-60 Jl 17 '42

It isn't just tobacco; flavors from various parts of the world used in processing all tobacco products. E. M. Schwartztrauber. il For Comm W 8:6-9+ Ag 29 '42

Problems in the industrial utilization of tobacco. M. J. Copley, R. K. Eskew and J. J. Willaman. il Chem & Eng N 20:1220-2 O 10 '42

Tobacco does it; research yields new uses for low-grade leaf, including fiber board and acids. il Business Week p58-60 F 28 '42

Tobacco from Lebanon; Latakia leaf. map For Comm W 8:10+ Jl 18 '42

White Burley tobacco; what the engineer should know about its production. L. S. O'Bannon. bibliog Mech Eng 64:187-92 Mr '42; Discussion. 64:555-7 Jl '42

See also

Cigarets

Nicotine

Diseases and pests

Association of tobacco leafspot bacteria with roots of crop plants. W. D. Valleau, E. M. Johnson and S. Diachun. Science 96:164 Ag 14 '42

Control of blue mold of tobacco by a new spray. P. J. Anderson. Science 96:409 O 30 '42

Fungicidal value of the salicylates. E. E. Clayton. Science 96:366 O 16 '42

See also

Tobacco mosaic virus

Moisture content

Laboratory temperature and humidity cabinet for studying the hygroscopic properties of tobacco. L. H. Davis, A. W. Petre and C. F. Bailey. il diag Ind & Eng Chem Anal ed 14:587-90 Jl 15 '42

Prices

New agreement regarding Sumatra leaf tobacco. For Comm W 7:42-3 Je 27 '42

TOBACCO factories

Equipment

Southern tobacco plant adopts mechanical transport. il Manuf Rec 110:38+ D '41

TOBACCO industry and trade

American frascati at New York foreign trade zone. A. H. Carroll. il For Comm W 7:8-9 My 16 '42

News by commodities. Published in Foreign commerce weekly

See also

Cigaret industry and trade

Cigarets

also names of companies, e.g.

American tobacco company

British-American tobacco company

Imperial tobacco company (of Great Britain and Ireland)

Reynolds, R. J., tobacco company

Advertising

See also

Cigaret industry and trade—Advertising

Finance

Brief appraisals of factors influencing market values. E. Lawrence. Barron's 22:13 Je 1 '42

Dividend prospects for Reynolds Tobacco. S. Devlin. Mag of Wall St 71:78-9+ O 31 '42

Tobacco industry faces profitless prosperity; with table giving production of leading cigarette brands, 1939-1942. H. M. Wootten. Barron's 22:7-8 Ap 13 '42

What can Reynolds Tobacco earn and pay? R. Colston. il Mag of Wall St 70:32-3 Ap 18 '42

Securities

Tax threats affect tobacco outlook; position of leading stocks. Mag of Wall St 70:393+ Jl 25 '42

Taxes hit tobacco industry; position of leading stocks. Mag of Wall St 69:433 Ja 24 '42

TOBACCO industry and trade—*Continued*

Taxation

Proceedings of the fifteenth annual convention of the National tobacco tax conference. Milwaukee. Wis., Oct. 9-11, 1941. 38p Federation of tax administrators, 1313 E. 60th st, Chicago '42

Australia

Consumption of tobacco leaf in manufacture and production of tobacco manufactures during years ended June 30, 1939, and 1940; tabulation. For Comm W 6:27 Mr 21 '42

Brazil

Production in Brazil. For Comm W 8:33 Jl 18 '42

Canada

Canadian production in 1941. For Comm W 8:31 Ag 8 '42

Tobacco production in Canada in 1941. For Comm W 6:30-1 Mr 28 '42

Cuba

Cuban tobacco exports, 1940 and 1941. For Comm W 6:22-3 Mr 7 '42

1941 tobacco crop of Cuba. For Comm W 6:24 Mr 14 '42

Ecuador

News by commodities For Comm W 5:30 N 29 '41

Egypt

Egypt increases tobacco imports. For Comm W 9:28-9 O 17 '42

News by commodities. For Comm W 6:27 Ap 4 '42

Germany

News by commodities. For Comm W 7:29-30 My 2 '42

Lebanon

Tobacco from Lebanon. map For Comm W 8:10+ Jl 18 '42

Netherlands Indies

Exports of Sumatran leaf tobacco. For Comm W 5:30 N 29 '41

News by commodities; effect of the war. For Comm W 5:24-5 D 27 '41

Syria

Production and trade in Syria and Lebanon. For Comm W 8:33+ Jl 11 '42

United States

American tobacco co., Reynolds, Liggett & Myers denied new trial and fined. Comm & Fin Chr 154:1725 D 30 '41

Flue-cured tobacco quota. Comm & Fin Chr 155:233 Ja 15 '42

1941 tobacco loan and purchase program. Comm & Fin Chr 154:1570 D 18 '41

1942 tobacco quotas same as for 1941. Comm & Fin Chr 154:1237 N 27 '41

Tobacco companies fined. Ptr Ink 197:58 D 19 '41

Tobacco's "big three" testify on advertising. H. M. Wootten. il Ptr Ink Mo 43:5-8, 51-2 D '41

Uruguay

Industry in Uruguay. For Comm W 9:31 O 3 '42

TOBACCO mosaic virus

Concentration and purification of tobacco mosaic virus by means of the Sharples super-centrifuge. W. M. Stanley. bibliog Am Chem Soc J 64:1804-6 Ag '42

Infectivity of extracted, unpreserved tobacco mosaic virus retained 28 years. H. A. Allard. Science 95:479 My 8 '42

Recent evidence regarding the nature of viruses. T. E. Rawlins. bibliog Science 96:425-6 N 6 '42

Size and shape of the tobacco mosaic virus protein particle. V. L. Frampton. Science 95:232-3 F 27 '42

Virus inactivator from yeast. W. N. Takahashi. Science 95:586-7 Je 5 '42

TOBACCO workers

Earnings and hours in manufacture of cigarettes, chewing and smoking tobacco, and snuff, December 1940. T. P. Henson. Monthly Labor R 54:184-209 Ja '42

See also

Cigar factories—Employees
Cigaret factories—Employees

TOBIN, Daniel J. 1875-

Tobin snaps whip; tells locals rough-house stuff is out. Business Week p75-8 Jl 18 '42

TOBIN bronze. See Bronze

TOCOPHERAMINE

Chemistry of vitamin E; α-tocopheramine, a new vitamin E factor. L. I. Smith, W. B. Renfrow, jr. and J. W. Opie. bibliog Am Chem Soc J 64:1082-4 My '42

TOCOPHEROLS

Chemistry of vitamin E; a new synthesis of 6-hydroxychromans, including α-tocopherol. L. I. Smith and H. C. Miller. bibliog Am Chem Soc J 64:440-5 F '42

Chemistry of vitamin E: calcium α-tocopheryl succinate. L. I. Smith, W. B. Renfrow, jr. and J. W. Opie. bibliog Am Chem Soc J 64:1084-6 My '42

Chemistry of vitamin E: 3,5-dinitrobenzazide as a reagent for preparation of derivatives of tocopherols. L. I. Smith and J. A. Sprung. bibliog Am Chem Soc J 64:433-4 F '42

Chemistry of vitamin E; the amperometric titration of α-tocopherol with auric chloride at the dropping mercury electrode. L. I. Smith, I. M. Kolthoff and L. J. Spillane. bibliog Am Chem Soc J 64:646-8 Mr '42

Chemistry of vitamin E; the behavior of tocopherols at the dropping mercury electrode. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:447-51 F '42

Chemistry of vitamin E: the three dimethylethyltocols. L. I. Smith and W. B. Renfrow, jr. bibliog Am Chem Soc J 64:445-7 F '42

Crystalline natural α-tocopherol acetate. C. D. Robeson. Am Chem Soc J 64:1487 Je '42

See also

Vitamins—Vitamin E

TOCOPHERYLQUINONE

Chemistry of vitamin E: behavior at the dropping mercury electrode of quinones related to vitamin E. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:644-5 Mr '42

TODD, Francis Cartwright, 1904-

1942 A.S.T.M. medal to F. C. Todd. Am Cer Soc Bul 21:187 S 15 '42

TODD, Oliver Julian, 1880-

Sketch. por(p50) Civil Eng 12:51 Ja '42

TOES

On your toes; foot injuries and safety shoes. G. E. Twining. il Safety Eng 83:11-12+ My '42

TOILET goods

All-America package competition; award to Old South perfumers. il Mod Packaging 15:166-7+ Ap '42

All-America package competition; award to Yardley & co., ltd.; beauty kit. il Mod Packaging 15:164-5+ Ap '42

Canadian manufacture curtailed. For Comm W 9:37 O 3 '42

Legal trends; toilet goods industry. H. Mock. Oil Paint & Drug Rep 141:61-3 Je 22 '42

Old into new for Seaforth. il Mod Packaging 16:45+ N '42

Paper lipsticks and compacts. il Mod Packaging 15:56-7 My '42

Perfume and cosmetic industry in wartime in England. W. Carsch. Oil Paint & Drug Rep 141:7+ Ap 27 '42

Shulton toiletries' war program: nimble package changes, more ads. W. L. Schultz. il Sales Management 50:26, 30 My 15 '42

Toilet goods association offers substitutes. Oil Paint & Drug Rep 141:71 My 11 '42

TOILET goods—*Continued*

Toilet goods production regulated by WPB order. Oil Paint & Drug Rep 142:3+ Jl 20 '42

Toiletries the way men like them; Nelson, Baker and co. il Mod Packaging 15:34-5 Ja '42

See also

Bath preparations
Brushes
Cosmetics
Dentifrices
Lotions
Perfumery
Soap

Manufacture

Putting hot water to work; John H. Breck inc., makers of toiletries. B. Dale. il Gas Age 89:23 Ja 1 '42

TOILET goods association

Annual meeting, 7th, New York, June 16-17. Oil Paint & Drug Rep 141:3+ Je 22 '42

TOILET paper

Hoarding tangles paper products distribution; rainbow colors on way out. Sales Management 50:40, 42-3 Ap 1 '42

Issues order to standardize tissue. Paper Tr J 115:25 O 15 '42

Lawtomatic roll wrapper. il Paper Tr J 113:63 N 27 '41

Washroom paper economy is advertised as war measure; Scott paper company, oversold, organizes fight on waste. il Ptr Ink 199:12-13 Ap 17 '42

Advertising

Picture the product. il Mod Packaging 15:61+ Jl '42

TOILET rooms

Pathogenic bacteria in public places. W. G. Walter and G. J. Hucker. Soap & San Chem 18:99 F '42

Washing and toilet facilities for women in industry; recommendations for installation and maintenance. U S Women's Bur Special Bul 4:1-11; pa 10c Supt. of doc. '42

See also

Bathrooms
Lavatories
Water closets

TOILETS, Flush. See Water closets

TOLEDO, Ohio

Rapid transit

How mass transportation is conducted in Toledo. il Mass Transportation 37:351-8 D '41

Streets

Management of public works equipment and supplies in Toledo. R. T. Anderson. il Pub Works 73:22-4+ Ap '42

Water supply

New Lake Erie water supply system of Toledo. F. R. Hawkins. il Water Works & Sewerage 89:165-8 Ap '42

Power for Toledo's new Lake Erie pumping station. E. M. Wilgus. il diag Diesel Power 20:34-40 Ja '42

Toledo dedicates a fine new water works. il diag plans Pub Works 73:12-15+ Ja '42

Toledo's new Lake Erie water supply. G. N. Schoonmaker. il map Civil Eng 12:316-19 Je '42

TOLEDO, Peoria & western railroad

Government takes over T.P.&W. diag Ry Age 112:660-1 Mr 28 '42

Morse raps transportation assn.; member of War labor board answers criticism of its handling of T.P. & W. case. Ry Age 112:792-3 Ap 18 '42

NWLB decides dispute between company and brotherhood. Comm & Fin Chr 156:1422 O 19 '42

One-man railroad. Business Week p20+ Ja 31 '42

Peace on the T.P.&W. Ry Age 113:183 Ag 1 '42

President backs National war labor board in Toledo, Peoria & western railroad co. case. Comm & Fin Chr 155:1163 Mr 19 '42

President seizes railroad. Pub Util 29:513 Ap 9 '42

32 pp. of McNear; T.P. & W. president tells what he thinks of U.S. operation of his railroad. Business Week p92 O 24 '42

Toledo, Peoria & Western railroad co. seized by the United States; strike ends. Comm & Fin Chr 155:1248 Mr 26 '42

TOLEDO, St Louis & western railroad

Railroad securities; Toledo, St Louis & Western 1st 4s, 1950. Comm & Fin Chr 156:357 Jl 30 '42

TOLERANCE

Close-tolerance screw threads. P. W. Brown. il Am Mach 86:1151-4 O 15 '42

Dimensional tolerances and quality control. J. W. White. il diags Product Eng 13:634-6 N '42

Fits and tolerances; examples of all classes. E. Geiger. diags Product Eng 13:278-80 My '42

Foolproof gaging system developed by Army Ordnance. J. B. Nealey. il diags Iron Age 150:45-50 S 3 '42

Influence of temperature on lathes; compensation for misalignments essential when parts must be finished to close tolerances. G. Schlesinger. diags Am Mach 86:379-81 Ap 30 '42

ISA tolerance system is issued in inch dimensions by ASME. Ind Stand 13:113 My '42

Standard tolerances for forgings up to 100 lb. Metal Prog 42:730 O '42

Standards smooth the path of the subcontractor. W. L. Fenn. il Ind Stand 13:162-4 Je '42

Tolerances and allowances; nomographic determination; reference book sheet. Product Eng 13:305-6 My '42

Tolerances for spur and helical gears; reference book sheets. Am Mach 85:1161, 1163, 1233 N 12-26 '41; Excerpts. Iron Age 148:42+ D 25 '41

Wear allowances and gagemakers tolerances, plain plug and plain ring inspection gages; flush pin and adjustable snap gages; chart. R. A. Bowman. Instruments 15:174 My '42

TOLERATION

International prejudices. W. J. Gilson. Elec Eng 61:525-6 O '42

TOLL bridges. See Bridges—Tolls

TOLL system. See Telephone—Long distance

TOLLENS, Bernhard, 1841-1918

Bernhard Tollens and some American students of his school of agricultural chemistry. C. A. Browne. por(sup15) J Chem Educ 19:253-9 Je '42

TOLUENE

Benzole recovery by the oil washing process. L. Silver and G. U. Hopton. Soc Chem Ind J 61:37-45 Mr '42

Determination of the concentration of benzene and toluene in air by a spectroscopic method. P. A. Cole. diag Opt Soc Am J 32:304-6 My '42

Direct measurement of the spreading pressures of volatile organic liquids on water. L. F. Transue, E. R. Washburn and F. H. Kahler. bibliog Am Chem Soc J 64:274-6 F '42

Distillation in a wetted-wall column. H. F. Johnstone and R. L. Pigford. bibliog diag Am Inst Chem Eng Trans 38:25-50; Discussion. 50-1 F '42

Effect of operating variables on the performance of a packed column still; system toluene-trichloroethylene. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexane. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

High-temperature alkylation of aromatic hydrocarbons. A. N. Sachanen and A. A. O'Kelly. bibliog il Ind & Eng Chem 33:1540-4 D '41

Kinetics of the hydrogen fluoride catalyzed reaction between toluene and *t*-butyl chloride. J. W. Sprauer and J. H. Simons. diag Am Chem Soc J 64:648-59 Mr '42

TOLUENE—*Continued*

Liquid-liquid extraction data; toluene and acetaldehyde systems. D. F. Othmer and P. E. Tobias. Ind & Eng Chem 34:690-2 Je '42

Liquid-liquid extraction in a perforated plate tower; effect of plate spacing on tower performance. R. E. Treybal and F. E. Dumoulin. bibliog diags Ind & Eng Chem 34:709-13 Je '42

Rectification in the presence of an insoluble component. E. M. Schoenborn, J. H. Koffolt and J. R. Withrow. bibliog il diag Am Inst Chem Eng Trans 37:997-1016; Discussion. 1016-21 D '41

Simplified calculation by theoretical plates; fractionation of a binary mixture in which the concentration of one component is small. G. W. Thomson and H. A. Beatty. bibliog Ind & Eng Chem 34:1124-30 S '42

Toluene allocation starts February 1. Oil Paint & Drug Rep 141:3+ Ja 5 '42

Toluene extraction made obligatory. Oil Paint & Drug Rep 141:4+ My 25 '42

Toluene; general preference order M-34. Am Gas J 156:35-6 Je '42

TNT being made 70 percent from petroleum. Sci Am 166:81 F '42

Vapor phase nitration of toluene. J. L. Bullock and E. T. Mitchell. Am Chem Soc J 63:3230-1 N '41

Analysis

Analysis of toluene for benzene by an ultraviolet absorption of vapor mixtures and the determination of concentration of toluene in air by use of the Rayleigh-Jeans interference refractometer. P. A. Cole and D. W. Armstrong. Opt Soc Am J 31:740-2 D '41

Determination of small amounts of benzene in the presence of cyclohexane and of toluene in the presence of methylcyclohexane. B. B. Corson and L. J. Brady. il Ind & Eng Chem Anal ed 14:531-3 Jl 15 '42

Estimation of aliphatic C—H content of toluene through its infrared absorption. R. C. Gore and J. B. Patberg. bibliog Ind & Eng Chem Anal ed 13:768-71 N 15 '41

Physiological effect

Toxicity and potential dangers of toluene, with special reference to its maximal permissible concentration. W. F. von Oettingen and others. (Pub. health bul. 279) 50p bibliog(p49-50) U.S. Public health service, Washington; pa 10c Supt. of doc. '42

TOLUENE dithiol

Preliminary observations on the behaviour of rhenium and of the complex thiocyanates of rhenium and molybdenum with toluene-3:4-dithiol. C. C. Miller. Chem Soc J p792 N '41

TOLUENESULFONAMIDE

Condensation of sulfoxides with *p*-toluenesulfonamide and substituted acetamides. D. S. Tarbell and C. Weaver. bibliog Am Chem Soc J 63:2939-42 N '41

TOLUENESULFONIC acid

Electrical conductivities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p843-9 D '41

Viscosities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p850-4 D '41

TOLUENESULFONYLCARBAZOLE

Nitration of 9-*p*-toluenesulphonylcarbazole. B. K. Menon, E. V. Menon and D. H. Peacock. Chem Soc J p509-10 Ag '42

TOLUENESULFONYL chloride

Cyclic methyleneimines; hydrolysis of quaternary compounds; preparation of secondary amines. J. Graymore. Chem Soc J p29-30 Ja '42

Distribution of acetyl groups in a technical acetone-soluble cellulose acetate. T. S. Gardner and C. B. Purves. bibliog Am Chem Soc J 64:1539-42 Jl '42

Rates of reaction of diacetone glucose, diacetone galactose and diacetone sorbose with *p*-toluenesulfonyl chloride in pyridine solution. R. C. Hockett and M. L. Downing. Am Chem Soc J 64:2463-4 O '42

TOLUIDINE

Organoboron-nitrogen compounds; the reaction of boron chloride with *p*-toluidine. C. R. Kinney and M. J. Kolbezen. Am Chem Soc J 64:1584-5 Jl '42

Analysis

Analytical determination of *p*-toluidine in the presence of its isomers. C. H. Benbrook and R. H. Kienle. bibliog diag Ind & Eng Chem Anal ed 14:427-8 My 15 '42

TOLUOL. See Toluene

TOLUQUINONE

Anti-bacterial substances from moulds; the bacteriostatic powers of the methyl ethers of fumigatin and spinulosin and other hydroxy-, methoxy- and hydroxymethoxy-derivatives of toluquinone and benzoquinone. A. E. Oxford. Chem & Ind 61:189-92 Ap 25 '42

TOLYLMETHANE

Tri-*o*-tolylmethane. P. D. Bartlett and J. E. Jones. bibliog Am Chem Soc J 64:1837-42 Ag '42

TOMATO catsup

Analysis

Analyses show need for catchup control; microbiological and chemical analyses of nine brands tabulated. D. F. Holtman. il Food Ind 14:50-1 Je '42

TOMATO seed oil

Tomato seed oil; abstract. M. P. B. Cavalcanti. Food Ind 14:104 Ap '42

TOMATOES

Labor standards and competitive market conditions in the canned goods industry. U S Women's Bur Bul 187:18-22 '41

Physiological activity of ascorbic acid in plant life. E. F. Kohman and D. R. Porter. Science 95:608-9 Je 12 '42

Prolycopene. A. L. LeRosen and L. Zechmeister. bibliog diag Am Chem Soc J 64:1075-9 My '42

Some essays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

Synthesis of ascorbic acid in excised tomato roots. M. E. Reid and W. J. Robbins. bibliog Science 95:632-3 Je 19 '42

Tomatoes galore; sales drive in stores. Business Week p74 Je 20 '42

Vitamin B_6 and growth of excised tomato roots in agar culture. D. Day. bibliog Science 94:468-9 N 14 '41

TOMBASIL

Navy Tombasil; a new silicon bronze casting alloy. H. L. Edsall. il Iron Age 150:54-9 Jl 30 '42

New bronze alloy; Ajax navy Tombasil. Electrician 128:582 Je 12 '42

TOMBS

Manufacture of burial vaults in compliance with WPB order. Concrete 50:18 Ag '42

TONES

Edge tones. A. T. Jones. bibliog Acoustical Soc Am J 14:131-9 O '42

Experimental study of subjective tones produced within the human ear. C. R. Moe. bibliog il Acoustical Soc Am J 14:159-66 O '42

TONGS, Pipe. See Pipe tongs

TOOL boxes

Weatherproof door for truck tool box. diags Elec W 118:1114 O 3 '42

TOOL engineers, American society of. See American society of tool engineers

TOOL rooms

Tool storage in metal cabinets. il Ry Mech Eng 116:31 Ja '42

TOOL steel

Built-up tools save high-speed steel. P. L. Budwitz. diags Am Mach 86:384-5 Ap 30 '42

TOOL steel—*Continued*

Cementing high speed steel tips. Iron Age 150:50 N 5 '42

Conservation of high speed tool steel from scrap. H. M. Givens, jr. Marine Eng 47: 261 O '42

Control of iron and steel (no. 19) order; substitute steels replacing high-tungsten high-speed steels. Engineer 173:159-60 F 20 '42; Excerpts. Metal Prog 41:536 Ap '42

Cutting tools tipped with high speed steel; General tool & die corp. il Iron Age 149:53-5 Mr 26 '42

Decarburization depth in carbon tool steels. Y. V. El'tsin and A. A. Yurgenson. Iron Age 149:68 My 7 '42

File hardness testing. J. H. Hruska. il Iron Age 150:35-9 S 24 '42

General Electric electrode-type salt-bath tool-hardening furnaces. il diags Engineering 154:27-8 Jl 10 '42

Heat treating molybdenum high-speed steel. W. R. Breeler and W. H. Wills. il Steel 111:95-8 O 12 '42

Heat-treatment of molybdenum high-speed steels; recommendations of special committee of U.S. Office of production management. Mach 48:152-4 D '41; 127-8 Ja '42

High speed steel tips cemented to low alloy shanks; Cinch steel cement. G. Shuler. il Iron Age 149:35-8 Ap 16 '42

Hot-quenching of high-speed steel. R. H. McCarthy. bibliog il diags Mech Eng 64: 201-4 Mr '42; Abstract. Metals & Alloys 15:864+ My '42

Manual atomic hydrogen welding of tool steels. C. H. Speakman. il Steel 110:86+ My 18 '42

Molybdenum high speed steels. J. P. Gill and R. S. Rose. Iron Age 148:33-5 S 25 '41; Same. Metal Prog 40:283-8 S '41; Abstract. Oil & Gas J 41:44 O 1 '42

Molybdenum high speed steels; abstract. H. J. Stagg. Metals & Alloys 15:308+ F '42

Molybdenum high speed steels and their heat treatment. L. C. Grimshaw and R. P. Kells. il Metal Prog 41:76-81 Ja '42

Multiple tempering of high speed steel. J. G. Ritchie. Metal Prog 41:85-6 Ja '42

Practical suggestions concerning the heat treatment of tool steels. J. E. Erb. il diags Iron Age 150:47-50 O 8 '42

Substitute tungsten high-speed steels. Engineering 153:167-8 F 27 '42

Surface structures and chemistry of heat treated 18-4-1 steel. W. A. Schlegel. il Iron Age 148:45-50 D 4; 48-59 D 11; 54-8 D 18 '41

Tipped high speed steel tools give improved performance. L. J. St Clair. diags Iron Age 150:52-5 Ag 6 '42

Tool hardening; practice, not theory. R. C. Stewart. il diags Metal Prog 42:378-83+ S '42

Toolsteels classified by wear-toughness ratio; tabulation. H. B. Chambers. Metal Prog 42:542 O '42

Toolsteels for hot working iron and steel. H. E. Replogle. Metal Prog 42:750 O '42

Tool steels; selection and application to secure optimum results. D. Taylor. il Automobile Eng 32:347-50 S '42

Transformation of retained austenite in high speed steel at subatmospheric temperatures; treatment in liquid nitrogen. P. Gordon and M. Cohen. bibliog Am Soc for Metals Trans 30:569-88; Discussion. 588-91 S '42

Tungsten economy in high-speed tool steels. Engineer 173:452-3 My 29 '42

Tungsten saver; Kennametal. il R Sci Instr 13:87-8 F '42

Uses and possible substitutes for cobalt. J. Koster and H. W. Davis. Steel 111:80-1+ Jl 6 '42

See also

Cutting tools
Machine tools
Molybdenum steel
Steel alloys
Tungsten steel

Testing

Fine tool finish increases tool life 2000 per cent. C. J. Wiberg and W. K. Heath. il diags Iron Age 150:33-7 Jl 23 '42; Abstract. Metals & Alloys 16:752+ O '42

Standardization of hardenability tests. W. E. Jominy. diags Metal Prog 40:911-14 D '41

Study of dimensional and other changes in various die steels due to heat treatment. G. M. Butler, jr. il Am Soc for Metals Trans 30:191-221; Discussion. 221-4 Mr '42

TOOLS

Aging of tools and gages. R. B. Seger. Metals & Alloys 15:278 F '42

Blackhawk's S.A.S. campaign helps distributors help win the war; organized coöperation of shifting and shunting inventories. B. Hotvedt. il Ind Marketing 27: 24-5+ S '42

Boring bars, pilots, special tools. J. G. Jergens. diags Am Mach 86:280-1 Ap 2 '42

Castaloy fixtures unify aircraft production; tools, fixtures and gages made from Cerrobend. C. S. Ricker. il Aviation 41:106-9 Ag '42

Central tool depot system; Southern California gas company. L. L. Biggs and J. R. Brick. il Gas Age 90:19-23 Ag 13 '42

Conservation is encouraged by Disston control plan; cards give instructions in correct, economical use of tools. il Steel 110:60 Ja 26 '42

Controlling tool issue and use; Springfield armory, Springfield, Mass. K. A. Stroble and D. W. Gaston. il Factory Management 100:124-6 Ag '42

Cunningham hand tool holder. il Blast F & Steel Pl 30:160-1 Ja '42

Disston conservation control plan for tools. il Sheet Metal Worker 33:42+ Je '42

Disston conservation control plan is farvisioned effort. il Ind Marketing 27:20-1+ Mr '42

Duplicating without dies; production of metal shapes by hand-operated tools. A. P. Peck. il Sci Am 166:128-9 Mr '42

Facilitating production by tooling engineering. C. H. Speck. il Aero Digest 39:140, 144+ D '41

Fleetwings steps up production; some new tools. il diag Aviation 41:74, 77+ Ja '42

Hand tools; their selection, use and care. il Nat Safety N 45:106+ Mr '42

Hardening and tempering engineers' tools, including notes on forging, casehardening, and the treatment of special steels. G. Gentry. rev & enl ed 92p 2s P. Marshall & co, London '40

Heat treating tips. G. B. Berlien. Iron Age 149:68-9 Mr 12 '42

How Plomb laid the groundwork for huge sales to Uncle Sam. F. Kirwin. il Sales Management 51:69-71 Jl 1 '42

How to conserve tools; Disston conservation control cards. Factory Management 100:80 Mr '42

Hudson finds a better tool control plan. R. G. French. il Am Business 12:18-19 Jl '42

Industry's war on waste of time, labor and materials exemplified in Disston's campaign; cards instruct in care and use of tools. W. Gebhart. Ptr Ink 198:19-20 F 13 '42

Limit use of alloy steels to be used in making hand service tools. Steel 110:40 Je 22 '42

New equipment. il Iron Age 149:70-3 Mr 12; 60-2 Mr 19; 72-4 Mr 26; 150:64-6 Jl 9; 58-60 Jl 23 '42

One writing controls tools; single form with four carbon-backed copies; Republic steel corp. T. M. Landy. il Factory Management 100:85 O '42

Priorities on safety equipment as they concern the electric utilities; hand tools, miscellaneous equipment. H. B. Wilson. Edison Elec Inst Bul 10:98 Mr '42

Production engineering; jig and tool design. E. J. H. Jones. 304p $5 Chemical pub. co. '41

Safe-ending hand tools. il diags Safety Eng 83:33-4 Mr '42

TOOLS—*Continued*

Safe-ending tools; bronze-welded collar promotes safety as well as longer life. il diags Mass Transportation 38:101-2 Ap '42

Taking care of production tools; American car & foundry company, Berwick, Pa. R. P. McBride. il Factory Management 100:115+ Ag '42

Tinkering with tools. H. H. Saylor. 260p $1 Grosset & Dunlap, New York '42

Tool engineer and national defense. I. A. Swidlo. il Am Mach 86:209-10 Mr 19 '42

Tool exchange; Blackhawk and Imperial Brass serve as clearing houses for scarce items on shelves of well-stocked distributors. Business Week p52+ O 31 '42

Tools, dies and mass production. Steel 110:406-7 Ja 5 '42

29th buyers reference number; tools and accessories. il diags Am Mach 86:185-210 Ja 22 '42

See also

Cutting tools
Electric tools, Portable
Files and rasps
Machine tools
Machinery
Pneumatic tools
Saws
Tool rooms
Tool steel

Standards

Standardization of all hand tools ordered by War production board. Steel 111:37 Jl 27 '42

Standardization of small tools. W. E. Miller. il Aviation 41:152+ Jl '42

TOOLS, Machine. See Machine tools

TOOTH paste and powder. See Dentifrices

TOPAZ

Carolina topaz to be used as substitute for kyanite. O. C. Ralston. Brick & Clay Rec 101:40+ Jl '42

Topaz development as a source of alumina. B. C. Burgess. flow sheets bibliog il map Am Cer Soc Bul 21:135-9 Jl 15 '42; Abstract. Brick & Clay Rec 100:40 My '42

Use of topaz as a glass opacifier. S. B. Meyer, jr. Glass Ind 23:185+ My '42

TOPOGRAPHICAL maps

Military topographic mapping. H. B. Loper. il maps Civil Eng 12:509-12 S '42

See also

Relief maps

TOPOLOGY

Algebraic topology. S. Lefschetz. 389p bibliog(p374-80) $6 Am. mathematical soc, Low memorial lib, 531 W. 116th st, New York '42

Analytic topology. G. T. Whyburn. 278p bibliog(p266-74) $4.75 Am. mathematical soc, Low memorial lib, 531 W. 116th st, New York '42

Dimension theory. W. Hurewicz and H. Wallman. 165p $3 Princeton univ. press '41

Lectures in topology; the University of Michigan conference of 1940. R. L. Wilder and W. L. Ayres, eds. 316p $3 Univ. of Michigan press, Ann Arbor '41

TORBANITE

Technical study of Transvaal torbanite. S. L. Neppe. diags Inst Pet J 27:31-65 bibliog(41 references, p64-5); 28:104-8 F '41, Je '42

TORNADO insurance. See Insurance, Tornado

TORNADOES

I served at Pryor; experience in rescue work in tornado; need for thoroughly trained first aiders. L. F. Voorheis. Nat Safety N 46:38 S '42

In the path of the storm; much can be done to enable industrial buildings to weather the blow. E. B. Gerry. il Nat Safety N 45:20-1+ F '42

TORONTO, Ontario

Rapid transit

Emergency organization of wartime transit; Toronto transportation commission. J. F. Neild. Transit J 86:57-9 F '42

Sewerage

Flow diagram and description of typical sewage plant at north Toronto. G. Phelps. flow diag il Can Eng W & S 79:19 N '41

Relation of disposal of sewage and water purity as exemplified by Toronto's problem. N. J. Howard. plan Water & Sewage 80:21, 126-8 Je '42

TORONTO stock exchange

Weekly record. Published in weekly Monday numbers of Commercial & financial chronicle

TORONTO university

See also

Ontario agricultural college

TORPEDO boat destroyers

Maid-of-all-work; place of the versatile destroyer in modern navies. W. L. Robinson. il Sci Am 166:55-8 F '42

See also

Submarine chasers

TORPEDO boats

Important job for the Civil air patrol; suggestion for use of light planes carried by PT boats in combating Nazi submarine. F. Smith. il Aero Digest 40:62 My '42

Little boats; resin-bonded plywood decreases weight, increases speed of patrol torpedo and landing boats. il Mod Plastics 19:35-7+ Mr '42

Torpedo boats for the U.S. navy are designed in air conditioned drafting rooms and offices. R. Latimer. il Heat & Ven 39:39-40 S '42

TORPEDOES

Erren combustion cycle; oxy-hydrogen steam generator for torpedoes. il Automobile Eng 32:302 Ag '42

Torpedo; mechanics of the tin fish. D. Wilhelm. il diag Sci Am 166:185-7 Ap '42

TORQUE

Acceleration-oscillogram method of motor-torque measurement. C. R. Atkinson and E. G. Downie. Elec Eng 61:Trans 7-9 Ja '42

Can your motors carry the load? guide for safe operation. A. F. Lukens. il Power 86:542-4 Ag '42

Hysteresis torque in elliptically polarized fields. F. J. Beck, jr. and J. G. Clarke. diags J Ap Phys 12:860-6 D '41

Measurement of small friction torques. diag Engineering 153:17 Ja 2 '42

Universal joints; how to determine loads by vectorial analysis. L. D. Hagenbook and J. H. Holstein. il diags Product Eng 13:334-6 Je '42

TORQUE converters

Heavy vehicle propulsion; automatic control on hydraulic drive. il diags Automobile Eng 32:3-6 Ja '42

Torque converters applied to drilling and servicing rigs. T. P. Sanders. il Oil & Gas J 41:25-6+ Jl 2 '42

TORREY botanical club

Seventy-fifth anniversary celebration. Science 95:498 My 15 '42

TORSION

Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9:213-19 Ap '42

Buckling of compressed bars by torsion and flexure. J. N. Goodier. 32p pa 50c Cornell univ, Engineering exp. station, Ithaca, N.Y. '41

Chassis frames; determining torsional strength by calculation. H. Bürger. Automobile Eng 32:9-11 Ja '42

Design charts for tubes subjected to torsion. W. C. Clayton. Aviation 41:127, 129, 131 My '42

Matrix theory of torsional oscillations. L. A. Pipes. diags J Ap Phys 13:434-44 Jl '42

Measurement of torsional vibrations. R. Stansfield. diags Engineering 154:178-80, 198-200 Ag 28-S 4 '42; Same abr. Engineer 174:77-9, 101-2 Jl 24-31 '42; Discussion. Engineering 154:74 Jl 24 '42

Practical solution of torsional vibration problems. W. K. Wilson. 2d ed rev & enl 2v 751p; 694p v 1 $8; v2 $8.50 Wiley '40-'41

TORSION—*Continued*

Rectangular shafts; torsional stresses and angular deformations. M. F. Spotts. diags Product Eng 13:319-21 Je '42

Torsion of a prism with cross section the inverse of an ellipse. T. J. Higgins. J Ap Phys 13:457-9 Jl '42

Torsional center determination in stressed skin structures. M. Watter. diags Aero Digest 40:145-6 F '42

TORSION balance

New determination of the constant of gravitation. P. R. Heyl and P. Chrzanowski. diags J Research Nat Bur Stand 29:1-31. pl 1-2 Jl '42

TORSION meters

Measurement of torsional vibrations. R. Stansfield. diags Engineering 154:178-80, 198-200 Ag 28-S 4 '42; Same abr. Engineer 174:77-9, 101-2 Jl 24-31 '42

TORTS

Cases on torts. E. S. Thurston and W. A. Seavey. 1027p $6 West '42

Joint tort-feasor decisions. W. G. Pickrel. East Underw 43:34 S 4 '42

Modern tort problems. L. H. Eldredge. 311p bibliog(pxxxv-xxxvii) pa $3.50 George T. Bisel co, Philadelphia '41

Readings in torts selected from legal periodicals and other sources. F. V. Harper, ed. 2v $15 Bobbs '41

Torts in the conflict of laws. M. Hancock. 288p bibliog(p281-5) $3 Callaghan '42

See also

Competition, Unfair
Damages
Fraud
Negligence

Government liability

Governmental tort liability. (Law and contemporary problems) 370p $1 Duke university school of law, Durham, N.C. '42

Remedy against U.S. is suit in admiralty; federal court exclusive jurisdiction of tort cases. East Underw 43:27 O 23 '42

TOTAQUINE

New standards adopted for totaquine; abstract. E. F. Cook. Science 96:sup10 O 16 '42

Totaquine use restricted by WPB. Oil Paint & Drug Rep 141:3+ My 4 '42; For Comm W 7:25 My 30 '42

TOURIST camps, hostels, etc.

Ingenuity will help house war workers; Twin Lakes motor lodge. il plans Am Bld 64:45-7 Mr '42

Touristless courts bank upon wartime housing needs. Business Week p28 Ap 25 '42

TOURIST trade

Canada's travel problem. S. A. Shepherd. Bankers M 143:380-4+ N '41

Hotel builds tourist trade with service in a package; Stevens, Chicago. il Ptr Ink 197: 43, 46 N 21 '41

U.S.-Mexican travel hits peak in 1941. H. Jones. il For Comm W 8:6-8+ Ag 15 '42

See also

Travel—Advertising

TOURMALINE

Piezometer for transient pressures. A. W. Lawson and P. H. Miller, jr. R Sci Instr 13:297-8 Jl '42

TOWBOATS

A. E. Heekin, towboat. il Marine Eng 46:140 N '41

Anker L. Christy, Diesel towboat. il Marine Eng 47:131-2 Mr '42

Ashland, river towboat. il Marine Eng 46:119 N '41

Barryton, ocean-going Diesel tug. il Marine Eng 46:80-2 D '41

Dauntless 15, Diesel tug. il Marine Eng 46:137 N '41

Diesel towboat "Tri-State." il Marine Eng 47:128-30 Jl '42

George W. Codrington. il Marine Eng 46:144 N '41

Hartford and Stamford Diesel tugs. il Marine Eng 47:84-6 F '42

Kort nozzles score in unusual test; performance of U.S. Engineer tugs Escort, Convoy, Pilot and Scusset. il Marine Eng 47: 87-9 F '42

Kort system of propulsion. A. M. Riddell. diags Engineering 154:18-20, 38-40 Jl 3-10 '42

Recent towboat developments, with particular reference to Kort nozzle propulsion. A. J. Dawson. il Marine Eng 47:115-20; Discussion. 105, 120 Je '42

Tug design. A. R. Taylor. diags Engineering 153:459-60 Je 5 '42

W. W. Marting, Diesel towboat. il Marine Eng 46:141 N '41

TOWELS

Cannon keeps gift line before public. il Mod Packaging 16:67 O '42

Roller printing. Textile Col 63:609-12 N '41

Serviceability of a dish towel fabric; rayon-cotton-linen mixture. M. B. Hays and R. E. Rogers. bibliog Rayon 23:289-90 My '42

Sorbtex process. Textile Col 63:668 D '41

Water absorption by towels. P. Larose. diags Am Dyestuff Rep 31:105-8+ Mr 2 '42

TOWERS

Curious story of the ventilating tower; entries in Battery to Brooklyn tunnel contest. il Arch Forum 75:sup10, 12 N '41

Suspension bridge tower cantilever problem. B. Birdsall. diags Am Soc C E Proc 67: 517-32 Ap '41; Discussion. 68:305-10 F '42

See also

Electric lines—Poles and towers

TOWERS, Steel

Untanking tower handles transformers. L. J. Pospisil. il diag Elec W 117:310 Ja 24 '42

TOWING

New model basins for U.S. navy; towing carriages. il diags Engineer 173:487-9, 506-8 Je 12-19 '42

See also

Towboats

TOWN planning. See City planning

TOWNE, Henry R., endowment fund

New York museum of science and industry and the Henry R. Towne endowment fund. Science 94:481 N 21 '41

TOXICAROL

Constituents of derris and other rotenone-bearing plants. H. L. Haller, L. D. Goodhue and H. A. Jones. Chem R 30:33-48 bibliog(77 references, p47-8) F '42

Melting points of toxicarol and of related compounds. S. H. Harper. Chem Soc J p878 D '41

TOXICOLOGY, Industrial. See Poisons, Industrial

TOXINS and antitoxins

Effects of anti-microbial substances of biological origin upon bacterial toxins. E. Neter. Science 96:209-10 Ag 28 '42

Studies on bactericidal and phagocytic activity of normal human blood on meningococci in relation to the skin test with meningococcus toxins. S. E. Branham, A. P. Hitchens and M. B. Root. bibliog Pub Health Rep 57:1021-31 Jl 10 '42

Study of the skin test with meningococcus toxins in a group of boys. A. P. Hitchens, S. E. Branham and M. B. Root. bibliog Pub Health Rep 57:1015-21 Jl 10 '42

See also

Immunity

TOY banks. See Coin banks

TOY industry and trade

Paints, chemicals use banned in toy making. Oil Paint & Drug Rep 141:3+ Ap 13 '42

Price, not priorities, chief worry of toy manufacturers. il Ptr Ink 198:23-4 Mr 20 '42

Replacements in toys. Barron's 22:5 N 9 '42

TOYS

Plastics competition award to Childhood Interests. il Mod Plastics 19:148-9 N '41

Toys of all times. A. Dickerman. il Comp Air M 46:6615-18 D '41

TRACE analysis

Determination of traces of copper in wort, beer, and yeast. I. Stone. Ind & Eng Chem Anal ed 14:479-81 Je 15 '42

Determination of traces of tin in malt beverages. I. Stone. Ind & Eng Chem Anal ed 13:791-2 N 15 '41

Photographic emulsions as specific reagents for traces of mercury and copper. A. Steigmann. Soc Chem Ind J 61:51-2 Mr '42

Rapid spectrographic determination of minute amounts or arsenic, lead, and copper and other heavy metals in foodstuff colours and medicinals. D. A. Harper and N. Strafford. diags Soc Chem Ind J 61:74-7 My '42

Spectrochemical determination of trace metals in biological material. J. Cholak and R. V. Story. bibliog il Opt Soc Am J 31: 730-8 D '41

TRACERS, Radioactive. See Radioactivity

TRACING paper

Sizes of drawing paper and cloth. Engineering 153:196-7 Mr 6 '42

TRACKLESS trolley. See Trolley buses

TRACTIVE resistance

Rolling resistance of pneumatic tires as a factor in car economy. W. F. Billingsley and others. S A E J 50:37-9+ F '42; Same cond. Automobile Eng 32:325-6 Ag '42

TRACTOR industry and trade

Scheduling shipments under priority regulations; Caterpillar tractor co., Peoria, Ill. W. H. Franklin. N A C A Bul 23:1041-9 Ap 1 '42

Stopping a run; Caterpillar perfects plan to anticipate contractors' parts needs. Business Week p66 Ap 18 '42

See also

Caterpillar tractor company

Advertising

How Caterpillar Tractor uses direct mail for wartime jobs. P. C. Smith. Ind Marketing 27:40+ N '42

Canada

Canada's tractor imports monthly, 1939-1941; tabulation. For Comm W 7:30 Je 20 '42

Tractor repair parts; construction machinery administrator issues memorandum clarifying previous order and outlining procedure in appeals. Roads & Bridges 80:42+ S '42

TRACTOR tires. See Tires, Tractor

TRACTOR trailers. See Trailers

TRACTORS

Comparisons of methods and costs of earth moving; abstract. G. W. Mork. S A E J 49:531 D '41

Creeper track for single wheels. il Automotive Ind 85:47+ D 1 '41

Flexible power take-off for tractor. il Elec W 118:809-10 S 5 '42

Hauling logs by small tractor; with cost data. W. H. McKinley. Pulp & Pa of Can 43:384 Ap '42

Loading gravel by tractor; with cost data. D. R. Stevens. il Pulp & Pa of Can 43:319-22 Mr '42

Making equipment last longer. il Eng N 128: 871-2 My 21 '42

Mechanical mules; a narrow gage trail tractor. il Business Week p20 N 7 '42

Mr Ford's only partner; Harry Ferguson and his tractor. il Fortune 25:66-7+ Ja '42

Modern technique in tractor ploughing. il Engineering 152:456 D 5 '41

Reducing cost of sludge removal; experiences at Aurora, Ill. with a saddle-bag tractor. W. A. Sperry. il Water Works & Sewerage 89:sup240-1 Je '42

Revolution in railroad grading equipment and methods. il Ry Age 112:536-41+ Mr 14 '42

Tractor drawn rooter plows wire into soft rock. R. C. Dean. il diag Eng N 128:343 F 26 '42

Tractor-mounted unit controls earth movers. diags Product Eng 13:312-14 Je '42

Tractor ploughing demonstrations. il Engineer 172:460 D 26 '41

Tractor-scraper machines in war work. K. F. Park. il Civil Eng 12:299-302 Je '42

Tractors make all-year logging possible. il Pulp & Pa of Can 43:458 My '42

Transfer of load due to braking in tractor-trailer combinations. P. M. Heldt. diag Automotive Ind 85:40-1 D 15 '41

See also

Snow tractors

Design

Square-wheel tractor goes to town. R. Mayne and H. W. Delzell. il S A E J 50:97-101 Mr '42; Same cond. Automobile Eng 32:183-5 My '42

Fuel

Bench and field tests of vehicle gas producer plant as applied to farm tractors. A. T. Bowden, E. E. Freeth and A. D. Rutherford. diags Inst Mech Eng J & Proc 146: Proc 193-207, pl 1-2 Mr '42; Discussion. 148: Proc 65-70 D '42

Germany's gas-producer unit for tractors. For Comm W 7:30 My 23 '42

Keep 'em plowing; simple mechanical adjustments save fuel. il Nat Pet N 34:32, 34-5 Jl 8 '42

Substitute fuels for Switzerland's tractors. For Comm W 5:10-11 D 20 '41

Maintenance and repair

Maintenance of tractors and tractor units. A. Lindley. il diag Roads & Sts 85:40-3 Ag; 36-9 S '42

Repair of tractor parts by welding; with cost data. J. A. Cunningham. il diags Eng N 129:312-14 Ag 27 '42

Manufacture

Caterpillar contemplates saving 2,300,000 pounds of strategic materials this year. Steel 111:84+ Ag 3 '42

Caterpillar research effects savings of vital materials. Automotive & Aviation Ind 87: 25+ S 1 '42

Examples of conservation and reclamation; Caterpillar tractor company. W. L. H. Doyle. il Mech Eng 64:27-30 Ja '42

Fordson tractors; production methods. il Automobile Eng 31:435-42 D '41

Fordson tractors; production of transmission units. il Automobile Eng 32:303-9 Ag '42

Making tractor forgings; International harvester co. H. Chase. il Metals & Alloys 15:956-61 Je '42

Mechanized handling speeds tractor manufacture; International harvester company. il Steel 109:67-8 D 22; 70-2 D 29 '41

Salvage at a tractor plant. R. W. Hughes. Metals & Alloys 16:261-2 Ag '42

Tractor parts rapidly hardened by induction. E. F. Cone. il Metals & Alloys 14:687-91 N '41

Specifications

American tractors; wheel and track laying types; tabulations. Automotive & Aviation Ind 86:114-17 Mr 15 '42

Testing

Bench and field tests of vehicle gas producer plant as applied to farm tractors. A. T. Bowden, E. E. Freeth and A. D. Rutherford. diags Inst Mech Eng J & Proc 146: Proc 193-207, pl 1-2 Mr '42; Discussion. 148: Proc 65-70 D '42

Trailers

See Trailers

TRACTORS, County

Novel renting plan aids farmers; Bayfield County Diesel-powered tractors. J. E. Hubel. il Diesel Power 20:278 Ap '42

TRACTORS, Industrial

Trucks and tractors for hazardous locations. il Nat Safety N 45:58+ My '42

See also

Motor trucks, Industrial

TRACTORS, Military

Square-wheel tractor goes to town. R. Mayne and H. W. Deizell. il S A E J 50:97-101 Mr '42; Same cond. Automobile Eng 32:183-5 My '42

See also

Tanks, Military

TRADE agreements

Arbitration clauses in union contracts. Management R 30:463-4 D '41

Collective bargaining in paper and allied products industry. A. W. Frutkin. Monthly Labor R 54:928-43 Ap '42

Collective bargaining in the chemical industry, May 1942. A. Weiss. Monthly Labor R 55:64-85 Jl '42

Contract between the Shell development company and the Congress of industrial organizations. D. E. Adelson. Science 95: 648 Je 26 '42

Ford bargain ends; company opposes renewal; union wants additional concessions. Business Week p50+ Je 20 '42

Method of indexing provisions of collective agreements. (Bul. 3) 18p pa $1 California inst. of technology, Industrial relations section, Pasadena '41

Military service in union contracts. Management R 31:361-3 O '42

New agreements and their provisions; abstract. Management R 31:200-1 Je '42

New shipbuilding stabilization agreement. Monthly Labor R 55:85-6 Jl '42

Pacific Coast shipbuilding agreement. Monthly Labor R 54:384 F '42

Provisions for extending the scope of collective agreements in Switzerland. Int Labour R 45:186-8 F '42

Provisions in union agreements. K. B. Mohn. In U S Bur Labor Statistics Bul 708:31-46; pa 15c Supt. of doc. '42

Union agreements: analysis of prevailing provisions; texts of representative agreements. 52p Nat. ind. conf. bd. '42; Abstract. Management R 31:266-8 Ag '42

Union-management cooperation in full-fashioned hosiery industry; wage concessions to unionized employers in return for commitments for purchase of new machinery. F. Joiner. Monthly Labor R 53:1180-5 N '41

Union security; order of the National war labor board, Washington, D.C.; Opinions of public, labor and employer members. Personnel J 21:10-22 My '42

Wage provisions in union agreements. Monthly Labor R 53:1126-39 N '41

See also

Arbitration, Industrial

Collective bargaining

Maintenance of membership clauses

See Trade unions—Maintenance of membership

TRADE agreements act. See Commercial treaties and agreements

TRADE associations

How public relations minded association staged comeback; American lighting equipment association. J. Markel. il Ptr Ink 197:17-20 D 19 '41

Is liquor allied? all-industry association, started by wholesalers. Business Week p48 N 22 '41

Proceedings of the fifth annual Conference of executives of state and local trade associations held at the Ohio state university, Mar. 28-29, 1941. 120p Bur. of business research, Ohio state univ, Columbus '41

Standardization activities of national technical and trade organizations. R. A. Martino. U S Nat Bur Stand Misc Pub M169:1-288; 75c Supt. of doc. '41

Zoological analysis of association membership. A. C. Kiechlin. Inland Ptr 109:31-2 Je '42

See also

Advertising, Association

Conventions

Insurance associations

Paper associations

Printing associations

Trade unions

also names of associations, e.g.

American hot dip galvanizers association

American paper and pulp association

American petroleum institute

American society for metals

Cooperative food distributors of America

Edison electric institute

National paint, varnish and lacquer association

Directories

Alphabetical list of scientific and trade organizations in the chemical and allied fields. Chem Ind 49:6-8 pt 2 (Buyer's guidebook) O '41

Industrial Marketing 1942 market data book number. Ind Marketing 26:1-394 O 25 '41

Trade and professional associations of the United States. C. J. Judkins and H. E. Wells. U S Bur For & Dom Com Industrial Ser 3:1-324; pa 70c Supt. of doc. '42

Law

How trade bodies may keep within letter of federal law. J. M. F. Donovan, jr. Ptr Ink 200:78, 82 S 25 '42

TRADE balance. See Balance of payments

TRADE barriers. See Commercial policy; Interstate commerce; Tariff

TRADE catalogs. See Catalogs

TRADE characters. See Advertising characters

TRADE conventions. See Conventions

TRADE directories

Aero equipment digest index; items described in Aero digest from November 1941 to April 1942. Aero Digest 40:204+ Ap '42

Aero equipment digest index; items described in the Aero equipment digest section from May 1942 to October 1942. Aero Digest 41: 326+ O '42

Buyers' guide of refinery equipment. Oil & Gas J 40:B1-B63 Mr 26 '42

Buyer's guidebook number, 17th annual revision. W. J. Murphy, ed. Chem Ind 49:1-736 pt 2 (Buyer's guidebook) O '41 (pa $1.50)

Canadian trade index, annual issue of 1942. 842p $6 Canadian manufacturers' assn, 67 Yonge st, Toronto, 2 '42

Chemicals buying section; an alphabetical list of chemicals with their formulas, physical and chemical properties, uses, containers, tariff, shipping regulations, with a buyer's guide of manufacturers and distributors. Chem Ind 49:135-401 pt 2 (Buyer's guidebook) O '41

Classified index of products used in the water works and sewerage fields. Water Works & Sewerage 89:sup7-16 Je '42

Classified sources of defense blackout devices; producers making equipment and material. Elec W 117:74-7 Ja 10 '42

Directory of aircraft and engine materials. Aero Digest 41:353-6+ Jl '42

Directory of exhibitors. National safety exposition. Nat Safety N 46:2-6 O '42

Directory of materials. Machine Design 14: 121-96 O '42

Heating, piping and air conditioning equipment for industry and large buildings; classified by products, trade names and manufacturers' addresses. Heating-Piping 14:sup 239-325 Ja '42

Manufacturers of materials and equipment for the Liberty ships. Marine Eng 47:204, 206, 208 Ap '42

1942 directory of manufacturers; buyer's guide of over 400 power products. Power 85:sup179-254, 254b-254d Mid-D '41

1942 Instruments index. Instruments 15:1-96 pt 2 Ja '42

Products index, buyer's guide; with addresses of Canadian manufacturers and agents of sewerage and waterworks equipment. Water & Sewage 80:131-9 Je '42

Products index; with addresses of manufacturers and agents, Canada, for road and bridge construction equipment. Roads & Bridges 80:145-63 Jl '42

TRADE directories—*Continued*

Raw materials buying section; an alphabetical list of natural raw materials, such as gums, metals, minerals, ores, naval stores, oils, natural pigments, etc. with their physical and chemical properties, uses, containers, tariff, shipping regulations, with a buyer's guide of suppliers. Chem Ind 49: 49-133 pt 2 (Buyer's guidebook) O '41

Refinery catalog; a composite catalog of oil refinery equipment including process handbook and engineering data. 1940 ed v 9 529p $7 Gulf pub. co. 3301 Buffalo drive, Houston, Tex. '40

Waterworks products and services; classified by products, company names, addresses, trade names. Eng N 128:sup149-99 Je 18 '42

Where-to-buy; products directory of *Steel* advertisers. Steel 110:445-77 Ja 5; 142-67 Ap 6; 111:151-75 Jl 6 '42 [pub. separately as pt. 2 beginning Oct. 5 [30p] and issued quarterly]

Where-to-buy section; manufacturers of metals and metal working equipment. Metal Prog 41:C3-C34 Je '42

See also

Diesel engines—Directories
Food, Frozen—Directories
Heating industry—Directories
Plastic industries—Directories
Radio apparatus industry—Directories

TRADE-in policies

See also Automobile industry and trade—Used cars

TRADE journals

Eleven editors receive awards for outstanding work. il Ind Marketing 27:34-5, 78 O '42

Industry and the technical press; abstracts. J. Pascoe. Engineering 152:475 D 12 '41; Iron Age 149:93+ F 12 '42

See also

Advertising mediums—Trade journals
Associated business papers
House organs

also Benn brothers, limited

Directories

Industrial Marketing 1942 market data book number. Ind Marketing 26:1-394 O 25 '41

TRADE marks

A.P.W. paper co. answers Federal trade commission complaint charging improper use of Red Cross name and emblem. Paper Tr J 114:22 Je 4 '42

American brands in many lands. il Mod Packaging 16:60-2+ S '42

Canine rejuvenation; stylized bull dog for Mack truck. il Ptr Ink 200:18 Ag 7 '42

Carter's guide to the classification of goods for trade-mark registration. C. P. Carter. 2d ed 16p Chauncey P. Carter, 3111 Foxhall road, Washington, D.C. '41

New costumes and a trade mark; Sunshine biscuits. il Mod Packaging 15:60 D '41

New trade marks. Published in monthly numbers of Soap and sanitary chemicals

New trade marks of the month. Chem Ind 50: 125-6 pt 2 Ja '42 [cont monthly]

New trade-marks of the textile industry. il Published in monthly numbers of Rayon textile monthly

Patents and trade marks. Published in monthly numbers of India rubber world

Trademark rescue; FDA regulation opposed by drug industry. Business Week p48+ N 29 '41

What kind of slogan and trade-mark do women most easily remember? il Sales Management 49:26-8+ D 1 '41

See also

Advertising characters
Competition, Unfair
Patent laws and legislation
Patents
Private brands
Trade names

Advertising

Human hand visualizes functions of Denison "Hydroilics". C. E. Brown. il Ind Marketing 27:22-3 N '42

Should a trade name be changed gradually or overnight? Kidde changes name of equipment from Lux to Kidde. C. E. Gischel. il Ind Marketing 27:24-5+ Jl '42

Trade-marks to the rescue! selling War stamps to masses. W. W. Wachtel. il Ptr Ink 200:11-18 Jl 17 '42

Law

Case of the French face powder makers. M. L. Hayward. Barron's 22:10 F 23 '42

Judge trade-mark infringement on deception, not similarity. L. T. Parker. il Cer Ind 38: 59-60 Mr '42

See also

Patent laws and legislation

TRADE names

Brands face ban; Canada weighs policy of suspending trade names; other policies. Business Week p30+ My 30 '42

Coming victory label, looms as a probability. Adv & Sell 35:19-20 Je '42

Condensed review of some recently developed materials, arranged alphabetically by trade names. Mach 49:174-84 O '42

Index and trade name dictionary. Chem Ind 49:609-732 pt 2 (Buyer's guidebook) O '41

Iron, steel and nonferrous metals listed by tradenames, by producers and by principal constituents. Machine Design 14:123-49 O '42

Is your trade name identified as your own? pictograph. Sales Management 50:39 F 15 '42

Plastics and other nonmetallics listed by tradenames and by producers. Machine Design 14:152-64 O '42

Plexiglas misnomer, F.T.C. charges. Oil Paint & Drug Rep 141:7+ Ap 27 '42

Should a trade name be changed gradually or overnight? Kidde changes name of equipment from Lux to Kidde. C. E. Gischel. il Ind Marketing 27:24-5+ Jl '42

See also

Elasti-glass
Trade marks

Advertising

Save the label! how Del Monte brand retains identity in advertising contribution to national nutrition drive. il Ptr Ink 200:22-3 Ag 7 '42

TRADE pacts. See Commercial treaties and agreements

TRADE practices

Causes and effects of the proposed Federal trade commission colorfastness rules. E. M. Edgerton. Am Dyestuff Rep 31:519-22; Discussion. 522-6+ O 26 '42

Hearings on proposed trade practice rules relating to the color fastness of textiles. Am Dyestuff Rep 31:463-72+, 483-4 S 28 '42

Lumber decree; national and 22 regional groups to follow rules imposed by the government. Business Week p24+ Ja 10 '42

Proposed colorfastness rules. Textile World 92:98 S; 77 O '42

Proposed trade practice rules relating to the colorfastness of textiles; text. Am Dyestuff Rep 31:478-83 S 28 '42; Same, with comments. Textile Col 64:481-3, 486, 493-502 O '42

Trade practice rules for the rayon and silk dyeing, printing and finishing industry as promulgated Dec. 12, 1941. Rayon 23:11, 39-40 Ja '42

Trade practice rules for the ribbon industry. Rayon 23:479-82 Ag '42

See also

Competition, Unfair
Dealer relations
Premiums (merchandizing)
Price cutting
Price discrimination
Price fixing
Price policies
Restraint of trade
Returned goods
Sales policies

TRADE relations
How De Long handles correspondence about deliveries. C. A. Emley. Ind Marketing 27:30-1 F '42

See also
Dealer helps
Dealer relations
Federal trade commission
Jobber relations
Marketing
Sales policies
Trade practices

TRADE schools
American welding society minimum requirements for training of welding operators. L. M. Dalcher. Welding J 20:781-3 N '41; Discussion. H. E. Lawrence. 20:844-5 D '41
Built to train for local industry; McKeesport, Pa. vocational school. il plans Arch Rec 91:76-7 Mr '42
New York vocation schools train for war production. J. G. McDonald. Comm & Fin Chr 155:1546 Ap 16 '42
Schools pre-train workers; cooperation between the Saginaw steering wheel division of General Motors and the local schools. il diags Am Mach 85:1335-8 D 24 '41
Teaching men to use the product; Hobart brothers, welding equipment maker, teaches modern shop practice methods. il Am Business 12:32-3 My '42
Unique school teaches construction trade; operated by the Seattle public school system. il Eng N 128:589 Ap 16 '42

See also
Delehanty institute

TRADE terms. See Business—Terminology

TRADE tests. See Ability tests

TRADE unions
Dealing with organized labor. J. C. Cameron. Personnel J 20:205-13 D '41
Development of the labor movement in Great Britain, France and Germany. W. A. McConagha. 199p $2.50 Univ. of North Carolina press, Chapel Hill '42
Dynamics of industrial democracy. C. S. Golden and H. J. Ruttenberg. 358p bibliog (p349-51) $3 Harper '42
Fifth and the sixth freedoms; rights of workers and of employers. J. J. Wicker. Manuf Rec 111:28-9 O '42
Management looks at the labor problem. il Business Week p68-90 S 26 '42
Needle trades. J. Seidman. 356p bibliog(p321-32) $2.50 Farrar '42
Perspective on democratic industrial government. O. Tead. Ann Am Acad 224:46-53 N '42
Railways and organized labor. P. H. Middleton. 136p bibliog(p132-3) 50c Railway business assn, 38 S. Dearborn st, Chicago '41
Union labor and defense. W. M. Maupin. Pub Util 29:623-7 My 7 '42
Union notices on company bulletin boards. Management R 31:34-5 Ja '42
Union participation in national defense. C. S. Slocombe. Personnel J 20:254-9, 287-93 Ja-F '42
Union participation: key to greater productivity. C. S. Golden and H. J. Ruttenberg. Advanced Management 7:55-60 Ap-Je '42
Union policies in wartime. S. Barkin. Personnel J 21:54-65 Je '42
Union security; order of the National war labor board, Washington, D.C.; Opinions of public, labor and employer members. Personnel J 21:10-22 My '42
Unionism, an issue in engineering. C. J. Freund. Personnel J 20:222-7 D '41
Unions fight, for what? commentary and review of book by H. Tracey. C. S. Slocombe. Personnel J 20:158-65 N '41
What will labor demand after the war? E. Whitmore. Am Business 12:9-11 Je '42
When management asks for union agitators. J. K. Westerfield. il Am Business 11:18-20+ N '41
Women's trade union leagues in Great Britain and the United States of America. G. Boone. 283p bibliog(p265-72) $3.50 Columbia univ. press '42

See also
American federation of labor
Arbitration, Industrial
Company unions
Confederated unions of America (Independent)
Congress of industrial organizations
Cooperation
Industrial relations
Insurance agents—Unions
Labor and laboring classes
Medical service, Trade union
Open and closed shop
Picketing
Radio broadcasting—Trade union programs
Strikes
Trade agreements

also names of unions, e.g.
International brotherhood of teamsters, chauffeurs, warehousemen, and helpers of America
Mine officials union of America
National labor union
United automobile workers of America
United office and professional workers union
United rubber workers of America
United steelworkers of America
United utilities union of America

Accounting

Financial statements of trade unions. H. Volk. J Account 73:131-42 F '42

Bibliography

Union-management cooperation with special reference to the war production drive. 27p pa 25c Industrial relations section, Dept. of economics and social institutions, Princeton univ. Princeton, N.J. '42

Educational work

Leaders of organized labor studying economics at Harvard; trade union fellowship plan. Steel 111:60 O 26 '42

Finance

Labor unions are prospering. Comm & Fin Chr 156:1167 O 1 '42

Jurisdictional disputes

Alcoa feud; FBI and army investigate work stoppages at Cleveland. Business Week p85-6 Je 13 '42
Alcoa's headache; jurisdictional strife growing in Cleveland plant. Business Week p56 Ag 1 '42
AFL, CIO agreement on jurisdictional disputes. Comm & Fin Chr 155:1780 My 7 '42
City's food; drive to organize grocery clerks in Pontiac, Mich. ends in one-day factory tie up. Business Week p71+ Ag 8 '42
C.I.O. vs. Lewis; elections at Harbison-Walker plants. Business Week p92+ O 24 '42
Decisions of the National war labor board. Monthly Labor R 54:1351-2 Je '42
Prospects of interunion relations and unity. A. H. Raskin. Ann Am Acad 224:40-5 N '42
Raiding rebuked; jurisdictional strife decried in report of President's board. Business Week p98-9 D 6 '41
Up to the unions; jurisdictional cases will go to NWLB labor bloc, then to arbitrators. Business Week p78-9 My 9 '42
Warns unions against treasonable action. W. L. Morse. Comm & Fin Chr 156:373 Jl 30 '42
Welders again; strike brings swift government wrath. Business Week p16 F 7 '42

Law

Antiracketeering act not applicable to labor unions; decision of United States Supreme court. Monthly Labor R 54:995-6 Ap '42
Complete handbook on federal regulation of labor unions. J. W. Walch. 145p pa $2.50 Platform news pub. co, 45A Free st, Portland, Me. '41
Debate handbook; federal regulation of all labor unions; resolved: that the federal government should regulate by law all labor unions in the United States. 227p bibliog (p27-56) pa $2.50 Midwest debate bur, Jacksonville, Ill. '41
Federal regulation of labor unions. J. V. Garland, comp. Ref Shelf v 15, no3:1-286 bibliog(p269-83) '41 ($1.25)

TRADE unions—Law—*Continued*

Irish trade-union act of 1941. C. M. Gerrity. Monthly Labor R 54:1159-61 My '42
Labor unions under Sherman antitrust act. Monthly Labor R 53:1221-2 N '41
Unions insist on finance secrecy; opposition to bill to increase legal liabilities. Ry Age 112: 619-20 Mr 21 '42

Maintenance of membership

Distortion ban; NWLB acts to remedy steel union's misinterpretation of maintenance of membership clause. Business Week p30+ O 3 '42
Employers divide; NWLB lineup on maintenance of membership is changed; holds stabilizing of wages doesn't mean freezing. Business Week p68-9 Je 20 '42
It's Kearny again; final determination of maintenance-of-membership issue is promised. Business Week p74 Ap 4 '42
Landmark for M. of M.; General Electric amended contract with C.I.O. to include maintenance of union membership clause. Business Week p90 Jl 25 '42
Machinists win; NWLB grants A.F.L. union maintenance of membership. Business Week p78+ Je 13 '42
M. of M. gains; U.S. Steel accepts NWLB decision on maintenance of membership. Business Week p36+ My 16 '42
Union security issue. L. K. Reynolds and C. K. Killingsworth. Ann Am Acad 224: 32-9 N '42
Unions differ; opinion of employer-members of NWLB in Caterpillar M. of M. award. Business Week p78 Jl 11 '42

Public relations

Fortune survey; labor: the public, workers included, knows relatively little about unions. Fortune 25:98-100 F '42
Selling A.F.L.; drive for public relations department. Business Week p95-6 O 24 '42

Akron, Ohio

Jobs in Akron; union membership declining. Business Week p82-3+ Je 13 '42

Canada

Canadian trade union movement. Int Labour R 46:620-4 N '42
Labor organization in Canada, 1940. Monthly Labor R 54:409-10 F '42
Labour situation at Kirkland lake. Can Min J 62:774-80 N '41

See also Canadian congress of labor; Trades and labor congress of Canada

Chile

Union membership in Chile, end of 1940. Monthly Labor R 54:411 F '42

Europe

American engineer looks at Europe. C. A. Powel. Power Pl Eng 46:75-7 S '42

France

French labour charter. Economist 142:468-9 Ap 4 '42
Vichy's internal policy. Economist 141:652 N 29 '41

Great Britain

British trade unionism; an outline history. A. Hutt. 160p pa 2s 6d Lawrence & Wishart, London '41
British trades union congress, 1941. Monthly Labor R 53:1457-9 D '41
British trades union congress, 73d, Edinburgh, Sept. 1-4. Int Labour R 44:709-13 D '41
Number and membership of trade unions, 1929-1940. Economist 142:52 Ja 10 '42
Reflections on the TUC. Economist 143:353-4 S 19 '42
Trade union membership problems of transferred war workers in Great Britain. Int Labour R 45:151-6 F '42
Trade unions' part in Britain's war effort. J. V. Radcliffe. Ann Am Acad 224:117-23 N '42
Trade unions together. Economist 143:329 S 12 '42

Ireland

Irish trade union act of 1941. Int Labour R 46:187-90 Ag '42
Irish trade-union act of 1941. C. M. Gerrity. Monthly Labor R 54:1159-61 My '42

Latin America

First congress of the Latin American workers' confederation. Int Labour R 45:211-13 F '42

Minneapolis

Sedition trial verdict. Business Week p98 D 6 '41

Norway

Labour problems in Norway. Economist 141: 535 N 1 '41

Philadelphia

Unionlists pro tem; A.F.L. electrical workers put nonmembers on job. Business Week p66 Ja 10 '42

San Francisco

Boss union nicked; San Francisco hotel owned by outsider signs up with A.F.L. unions. il Business Week p18+ N 15 '41

Sweden

Twelfth quinquennial congress of the Swedish confederation of trade unions, Stockholm, Sept. 6-13. Int Labour R 45:214-16 F '42

Texas

Chapters in the history of organized labor in Texas. R. Allen. Texas Univ (Austin) Pub 4143:1-258 '41

United States

Decisions of the National war labor board; union security and jurisdictional disputes. Monthly Labor R 54:1347-52 Je '42
Democracy and the closed shop. J. Chamberlain. Fortune 25:64-5+ Ja '42; Abstract. Management R 31:154-6 My '42
Foremen's union; expects to go national. Business Week p58-9 Ag 29 '42
Growing pains of the American labor movement. W. M. Leiserson. Ann Am Acad 224:1-9 N '42
Growth of auto unions surveyed by Twentieth century fund. Comm & Fin Chr 156:372 Jl 30 '42
Independent issue. Business Week p66 Ja 31 '42
Independent labor group organized. Comm & Fin Chr 156:1554 O 29 '42
Independent unions to form federation. Comm & Fin Chr 156:373 Jl 30 '42
Labor adopts FDR plan for peace in wartime. Comm & Fin Chr 155:577 F 5 '42
Labor is awarded strong voice in WPB. Iron Age 150:116-18 S 10 '42
Labor landmark; need for protection of worker's interest against union recognized by National war labor board in Walker Turner co. Business Week p74-5 Ap 18 '42
Labor organizations rise in power, until Pearl Harbor. il Steel 110:228-31 Ja 5 '42
Labor peace push; A.F.L.-C.I.O. unity is long way off. Business Week p87-8 Ag 15 '42
Labor: public issue no. 1; what should be done. H. F. Travis. il Mag of Wall St 69: 180-2+ N 29 '41
Labor's board. Business Week p47-9 Ja 3 '42
Labor's fight for power. H. Klein. il Iron Age 149:72-5+ Ja 1 '42
Lewis foes unite; gas, coke, chemical workers organize new union. Business Week p43 S 26 '42
Lewis shellacked; workers in five plants of Harbison-Walker give sweep to Murray's clay products union. Business Week p91+ N 7 '42
Lewis takes walk. Business Week p87-8 O 17 '42
Matt Smith: independent. Business Week p78 Ag 22 '42

TRADE unions—United States—*Continued*

Meany deal; Lewis's bid for unity seen as scheme to scuttle Murray and Hillman. Business Week p15-16 Ja 24 '42

New federation; Conference of independent unions. Business Week p53-4 Ag 1 '42

New union? meeting called by Mechanics educational society of America viewed as effort to unite independents. Business Week p86 Jl 25 '42

New utility union; independent organizations in 12 power companies join forces. Business Week p54 Ag 1 '42

Prospects of interunion relations and unity. A. H. Raskin. Ann Am Acad 224:40-5 N '42

Rival for C.I.U.; group of independents launches national organizing effort in Michigan. Business Week p38+ S 26 '42

Some problems of organized labor in a war economy. P. Eliel. Ann Am Acad 220:116-24 Mr '42

Trend toward union shop in American industry. Pub Util 28:829-33 D 18 '41

Union drive in oil. Business Week p72 Ap 18 '42

Union security by referendum only; National war labor board's International harvester company decision. Business Week p7 Ap 18 '42

Union shop; it is forcing a decision on the limitation of labor's power. Fortune 24:64-5 D '41

U.S. Rubber case. Business Week p59 Ag 1 '42

Welding a peace; solution may be universal transfer card; controversy between Pacific Coast welders and the A.F.L. metal trades department. Business Week p69+ N 15 '41

What's itching labor? survey of opinion of workers in Pittsburgh area. il Fortune 26:100-2+ N '42

Wide spread of labor unionization is predicted in field of public service; abstract. G. R. Clapp. Eng N 129:603 O 29 '42

See also

American federation of labor

Congress of industrial organizations

Farmers' unions

Bibliography

Complete handbook on federal regulation of labor unions. J. W. Walch. 145p bibliog(p33-7) pa $2.50 Platform news pub. co, Portland, Me. '41

TRADE waste

Acid waste treatment: abstract. W. Rudolfs. Can Chem & Process Ind 26:618 O '42

Acid waste treatment needs accentuated by war effort. Eng N 129:504 O 8 '42

Chemical treatment of trade waste; laundry wastes. F. D. Snell and J. M. Fain. plan Ind & Eng Chem 34:970-2 Ag '42

Combined complete treatment of medium and high concentration wastes; regenerative digestion process and oxidized sludge process. E. B. Mallory. flow diag il diags Water Works & Sewerage 89:143-55; Discussion. E. F. Eldridge. 155 Ap '42

Determination of grease in sewage, sludge, and industrial wastes. R. Pomeroy and C. M. Wakeman. bibliog Ind & Eng Chem Anal ed 13:795-801 N 15 '41

Industrial waste treatment practice. E. F. Eldridge. 401p $5 McGraw-Hill '42; Review by L. F. Warrick. Water Works & Sewerage 89:320 Jl '42

Recirculating high rate filter in industrial waste treatment. E. F. Eldridge. il diags Water Works & Sewerage 88:483-90 N '41

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42

Role of chemicals in industrial waste treatment; canneries, paper mills, beet sugar factories, slaughter-houses, laundries, etc. E. F. Eldridge. il Water Works & Sewerage 89:341-6 Ag '42

Suggested method for neutralizing waste pickling acid effluents. F. Smith. Chem & Ind 61:68-9 F 7 '42

Treating pickling liquors for removal of toxic metals. G. E. Barnes and M. M. Braidech. diags Eng N 129:496-9 O 8 '42

Treatment of vegetable cannery wastes. N. H. Sanborn. bibliog il Ind & Eng Chem 34:911-15 Ag '42

Wastes from the manufacture of paper from old-paper stock. E. F. Eldridge. flow diag Water Works & Sewerage 89:124-7 Mr '42

See also

Canneries—Waste

Chemical plants—Waste

Coal mines and mining—Waste disposal

Dairy waste

Distilleries—Waste

Electroplating—Waste

Laundries—Waste

Packing houses—Waste

Paper mills—Waste

Petroleum—Water problem

Petroleum refineries—Waste

Refuse disposal

Sewage disposal

Sewage disposal plants

Sewerage

Sulfite liquor

Tanneries—Waste

Waste, Utilization of

Water pollution

TRADEMARKS. See Trade marks

TRADERS and general insurance company

Company analysis. Spectator (Property ed) 7:36-7 Je 25 '42

TRADES and labor congress of Canada

Annual convention, 57th, Calgary, Alberta, Sept. 22-27. Int Labour R 45:101-3 Ja '42; Monthly Labor R 54:123-4 Ja '42

Wartime policies, 1942. Monthly Labor R 55:725-6 O '42

TRADES union congress. See Trade unions—Great Britain

TRADING areas. See Market areas

TRADING with the enemy

British court rules on status of companies in occupied countries. Weekly Underw 145:1402 D 20 '41

British may now deal with any insurer in U.S. Nat Underw 46:3 My 7 '42

Designation of authority to issue licenses and exemptions. Fed Res Bul 28:104-5 F '42

Dutch shipowners operating at Rotterdam not necessarily enemies under British court rule. Weekly Underw 146:273-5 Ja 31 '42

Enemy carrier in license test; Swiss National loses suit against U.S. Attorney General and U.S. Treasurer. Weekly Underw 147:209+ Ag 1 '42

Enemy trading rules for U.S. firms in Latin America. Comm & Fin Chr 155:1434 Ap 9 '42

First war powers act, 1941; text. For Comm W 5:8-9 D 27 '41; Same. Fed Res Bul 28:13-15 Ja '42

Foreign funds control and Trading with the enemy act synchronized. For Comm W 6:32-3 Mr 28 '42

How Trading with the enemy act in first World war related to insurance. H. W. Nichols. East Underw 42:96+ D 12 '41

Insurance and Trading with the enemy; act of 1917, revived 1941. E. C. Stiefel. Weekly Underw 146:58-9+ Ja 3 '42

Smoking out enemy business abroad. E. E. Schnellbacher. For Comm W 7:5+ Je 6 '42

Trading with enemy act held not to bar suit under a loan receipt. East Underw 43:39 N 6 '42

Trading with enemy insurance; standard of conduct with foreign underwriters defined. Weekly Underw 146:787+ Ap 4 '42

Trading with the enemy act; wartime measure affecting financial and banking transactions. A. M. Strong. Burroughs Clearing House 26:22-3+ F '42

Treasury asks travelers to refrain from taking documents abroad. Comm & Fin Chr 155:575 F 5 '42

Treasury revises regulations covering restrictions of Trading with enemy act. Comm & Fin Chr 155:1245 Mr 26 '42

War and patents. Economist 142:260-1 F 21 '42

TRAFFIC counters

Streeter-Amet mechanical traffic counter. il R Sci Instr 13:370 Ag '42

TRAFFIC engineering

Design of sign letter sizes. A. Mitchell and T. W. Forbes. diags Am Soc C E Proc 68:95-104 Ja '42; Discussion. 68:839-40, 1073-4 My-Je '42

TRAFFIC engineering—*Continued*

Engineering study of the parking problem; Eno foundation for highway traffic control. Roads & Bridges 80:58 Ag '42

First Traffic engineering handbook presents basic reference data. Ind Stand 13:94-5 Ap '42

Traffic engineering as applied to rural highways. M. Harris. il diags Am Soc C E Proc 67:829-52 My '41; Discussion. 67:1383-4, 1515-16, 1879-85; 68:167-8 S-O, D '41-Ja '42

Traffic segregation design keeps them rolling. il plan Roads & Sts 85:54, 56+ My '42

TRAFFIC lines

Connecticut experiments with novel highway marking. G. S. Beebe. il Civil Eng 12:156 Mr '42

Cost of center-striping in West Virginia. il Roads & Sts 85:53 Je '42

Cutting traffic divider line. il Roads & Sts 85:46 Jl '42

Directional and pedestrian islands, Washington, D.C.; unit prices. Eng N 129:596 O 22 '42

Divided highways in California. F. Grumm. il diags Eng N 128:176-9 Ja 29 '42

Experience of cities with painted traffic lines. rev ed 28p pa 50c Am. public works assn, 1313 E. 60th st, Chicago '42

Field and laboratory investigation of traffic paints; abstract. W. H. Goetz. Roads & Bridges 80:105-6 Mr '42

Modern brick pavements; centerline and traffic lane markers. W. H. Cullimore. il Roads & Sts 85:49, 52-3 Ja '42

New method for fixing no-passing zone limits. Roads & Sts 85:83-4 Mr '42

Night-time visibility of surface-dressed traffic lines. il Pub Works 73:22+ O '42

Painting safety into roads by machine-made reflecting lines. J. M. MacKinnon. il diags Roads & Bridges 80:28-9, 48+ Ap '42

Permanent lane markers at Canton. J. A. Shisler. il diag Eng N 129:221 Ag 13 '42

Plastic white lines for roads. W. H. Glanville. Can Eng R & B 79:48 D '41

Plastics competition award to Saf-T-Dot marker corp. il Mod Plastics 19:152-3 N '41

Some aspects of highway maintenance in peace and war. C. R. Waters. il Civil Eng 12:497-8 S '42

Traffic paint substitute; soybean oil. Eng N 127:881 D 18 '41

Traffic-zone paint. Roads & Bridges 80:118+ Mr '42

TRAFFIC management, Industrial

See also

National industrial traffic league

TRAFFIC officers

Medical study of men exposed to measured amounts of carbon monoxide in the Holland tunnel for 13 years. R. F. Sievers, T. I. Edwards and A. L. Murray. (Pub. health bul. no.278) 74p bibliog(p65-72) U.S. Public health service, Washington; pa 15c Supt. of doc. '42

TRAFFIC regulations

Common-sense driving and pedestrian rules, with rules for bicycle riders. D. H. Jackson. 2d ed 197p $1.65 Dennis productions, Chamber of commerce bldg, Los Angeles '41

Traffic control and national defense. F. M. Kreml. W Soc E J 46:267-72 O '41

Traffic engineering handbook. H. F. Hammond and L. J. Sorenson, eds. 320p $3.25 Inst. of traffic engineers, 60 John st, New York '41

Uniformity in highway traffic control. W. P. Eno. 83p pa $1 Eno foundation for highway traffic control, Saugatuck, Conn. '41

See also

Automobile laws and regulations
Automobile parking
Motor bus lines—Laws and regulations
Motor trucks—Laws and regulations
Motor vehicles—Law
Road traffic
Street traffic
Tunnels and tunneling—Vehicular tunnels

TRAFFIC signals

Traffic signal blackout units of new type fill all needs. diags Eng N 129:632 N 5 '42

Standards

Traffic signal standard provides standard colors. Ind Stand 13:209 Jl '42

TRAFFIC signs

Design of sign letter sizes. A. Mitchell and T. W. Forbes. diags Am Soc C E Proc 68:96-104 Ja '42; Discussion. 68:839-40, 1073-4 My-Je '42

TRAFFIC surveys

Combination traffic counter and speed recorder; abstract. H. J. Dana. Roads & Bridges 80:84 Ap '42

Results of highway-capacity studies. O. K. Normann. diags Pub Roads 23:57-81 Je '42

Some characteristics of motor-vehicle travel. R. H. Paddock. map Pub Roads 23:17-29 Ap '42

TRAGACANTH

Abolition of gum tragacanth monopoly in Iran is foreseen. Chem & Eng N 20:793 Je 25 '42

Exportation of gum tragacanth from Iran by country, year ended March 31, 1940. For Comm W 7:25 Ap 25 '42

TRAILER brakes. See Brakes, Trailer

TRAILERS

Bombers by truck; new trailer-tractor giants designed to haul Ford-built subassemblies. il Business Week p74+ Je 27 '42

Care for your trailers! Nat Pet N 34:28-9 My 20 '42

ODT bus, where can it be used most effectively? il Bus Transportation 21:212-13 My '42

Oil-field trailers made sturdy and light by arc-welding. A. F. Davis. il Pet Eng 13:124 Ja '42

Simplified arc-welded trailer bracket saves time and cost. A. F. Davis. il diags Welding J 21:176 Mr '42

Transfer of load due to braking in tractor-trailer combinations. P. M. Heldt. diag Automotive Ind 85:40-1 D 15 '41

War maintenance; trucks and trailers, strip mines. il diags Coal Age 47:128-30 O '42

See also

Automobile trailers
Exhibits, Traveling

Advertising

Government restrictions melted by Fruehauf educational advertising. W. D. Wise. il Ind Marketing 27:13-16+ Je '42

Design

Six-wheel braking and its related problems. W. F. Benning and M. C. Horine. il diags S A E J 50:381-91 S '42; Same cond. Automotive & Aviation Ind 86:30-1+ My 1 '42

Wheels

Fabricating steel trailer wheels. F. F. Branch. il Steel 109:72 D 8 '41

TRAIN dispatching. See Railroads—Train dispatching

TRAIN ferries

City of Midland, carferry. il plan Marine Eng 46:108-9+ N '41

TRAIN speed. See Railroads—Train speed

TRAINING within industry. See Industrial education—Defense workers

TRAINS. See Railroads—Trains

TRAJECTORIES

Human trajectories. R. Oldenburger. il diags J Ap Phys 13:460-9 Jl '42

TRANE company

Growth stocks and the investor. E. N. Chapman. Barron's 22:13 F 16 '42

TRANSFORMATIONS (mathematics)

Analysis of systems with known transmission-frequency characteristics by Fourier integrals. W. L. Sullivan. bibliog Elec Eng 61:248-56 My '42

TRANSFORMATIONS (mathematics)—*Cont.*
Introduction to linear transformations in Hilbert space. F. J. Murray. 135p pa $1.75 Princeton univ. press '41
Laplace transform. D. V. Widder. 406p bibliog(p392-7) $6 Princeton univ. press '41
Laplacian transform analysis of circuits with linear lumped parameters. J. Millman. diags Elec Eng 61:197-205 Ap '42
Traveling waves on transmission lines. E. Weber. bibliog Elec Eng 61:302-9 Je '42

TRANSFORMERS, Electric. See Electric transformers

TRANS-ISTHMIAN highway. See Roads—Panama

TRANSIT, Surveyor's
Frontier experiences with an old transit. E. B. Black. il Civil Eng 12:170 Mr '42
Transits should be graduated in mils. P. Kissam. Civil Eng 12:518 S '42
Universal level transit. diag Eng N 129: sup140 O 22 '42

TRANSIT association, American. See American transit association

TRANSITE
Transite for chemical fumes; Searle chemical co. il Sheet Metal Worker 33:82-3 Ja '42

TRANSITION, Heat of
Anhydrous sodium soaps; heats of transition and classification of the phases. R. D. Vold. diag Am Chem Soc J 63:2915-24 N '41

TRANSITION points
See also
Freezing points
Melting points

TRANS-JORDAN
Middle East. Fortune 25:175 F '42

TRANSLATION
Handbook for translators of Spanish historical documents. J. V. Hassard and M. D. McLean. 198p bibliog(p179-98) Univ. of Texas, Austin '41

TRANSLUCENCY
Use of the photronic cell and spectrophotometer for measuring translucency of whiteware. F. C. Arrance. il diags Am Cer Soc J 25:116-22 F 15 '42

TRANSLUCENT plastics. See Plastic materials, Translucent

TRANSMUTATION (chemistry)
See also
Atoms—Disintegration
Radioactivity

TRANSPARENT containers. See Containers, Transparent

TRANSPARENT plastics. See Plastic materials, Transparent

TRANSPORTATION
Economic survey of the Pacific area; pt.2, Transportation, by K. R. C. Greene; Foreign trade, by J. D. Phillips. 208p bibliog (p207-8) $2 Inst. of Pacific relations, New York '42
Essays in transportation in honour of W. T. Jackman. H. A. Innis, ed. 165p $2.50 Univ. of Toronto press, Toronto, Can. '41
Transport pooling. L. J. Kiernan. Trusts & Estates 74:544-5 Je '42
Transportation crisis. R. Bill. Sales Management 50:56-60+ My 15 '42; Abstract. Management R 31:209-10 Je '42
Transportation, key to future trade. W. C. Taylor. For Comm W 9:3+ O 31 '42
Transportation of tomorrow. J. B. Eastman. Civil Eng 12:1-2 Ja '42
See also
Aeronautics, Commercial
Air lines
Air travel
Aircraft
Airplanes
Automobile trailers
Automobiles
Barges
Bridges
Cableways
Canals
Carriers
Coal handling
Commerce
Delivery of goods
Electric railroads
Employees, Transportation of
Freight car service
Freight cars
Freight ships
Gasoline pipe lines
Highway transportation
Mechanical handling
Merchant marine
Mine haulage
Motor bus lines
Motor ships
Motor trucks
Motor trucks in freight service
Motor vehicles
Packing for shipment
Petroleum pipe lines
Pipe lines
Pneumatic conveying
Ports
Postal service
Railroads
Rapid transit
River traffic
Road traffic
Roads
Shipment of goods
Shipping
Ships
Steamboats
Street railroads
Street traffic
Streets
Towboats
Traffic regulations
Traffic surveys
Trailers
Travel
Trolley buses
Trucks
Waterways
also subdivision Transportation under names of products, e.g.
Chemicals—Transportation
Coal—Transportation
Explosives—Transportation
Petroleum—Transportation
Wood—Transportation

Cost
Distributive costs of consumption commodities. B. M. Fowler and W. H. Shaw. Survey of Cur Business 22:12-17 Jl '42

Federal aid
Shows public aids to rail and air carriers; Board of investigation and research created by the Transportation act of 1940. Ry Age 112:1239-40 Je 27 '42
Study board gets public-aids briefs; Board of investigation and research created by the Transportation act of 1940. Ry Age 113:577-9 O 10 '42
Study board issues public aid exhibits; Board of investigation and research created by the Transportation act of 1940; highway and waterway exhibits. Ry Age 112:1184-5 Je 20 '42
Transport board holds hearings on federal aid to carriers. Ry Age 113:19-22, 58-60 Jl 4-11 '42
See also
Railroads—Federal loans

History
From covered wagon to streamliner. E. Hungerford. 64p $1.75 Greystone press, New York '41
Many forms of transportation originated during periods of war. J. Early. il Barron's 22:9 F 23 '42
Ships and planes and railroads were first built for military needs. J. Early. il Barron's 22:7 Mr 2 '42

Laws and regulations
Arnold assails the Transportation act. Ry Age 113:149-50 Jl 25 '42
Transportation in the public interest. G. C. Dillman, H. E. Stocker and J. S. Worley. 38p Nat. highway users conference, Nat. press bldg, Washington, D.C. '42
See also
Automobile laws and regulations
Interstate commerce
Maritime law
Motor trucks—Laws and regulations
Railroad law
Waterways

Rates
See also
Motor trucks in freight service—Rates
Railroads—Rates
Shipping—Rates

Statistics
Total transportation index for the United States, 1929-42. L. J. Paradiso and G. Perkel. Survey of Cur Business 22:20-8 S '42

Study and teaching
Educational problems in transport. L. M. Homberger. Ry Age 112:1151-2 Je 13 '42

TRANSPORTATION—Study and teaching—*Continued*

Present day transportation curriculum. J. S. Worley. J Eng Educ 32:767-70 My '42; Same cond. Ry Age 112:414+ F 21 '42

California

California's war transit problem, unusual. J. H. Collins. Pub Util 30:143-50 Jl 30 '42

China

See also
Burma road

Germany

Nazis find super-roads can't supplant railways. Ry Age 112:1246 Je 27 '42

Great Britain

Acceleration of transport. Engineer 172:321 N 7 '41
Delivery system pooled. For Comm W 6:17+ F 28 '42
Road and rail; an enquiry into the economics of competition and state control. G. Walker. 236p 12s 6d G. Allen & Unwin, London '42
War transport. Economist 141:655-6 N 29 '41

Ireland

Irish transport difficulties. Economist 142:541-2 Ap 18 '42

Russia

Urge to the sea; the course of Russian history. R. J. Kerner. 212p $2.50 Univ. of California press, Berkeley '42

United States

Annual report of Board of investigation and research created by the Transportation act of 1940. Ry Age 113:479-83 S 26 '42
Annual report of the Board of transportation-research. Pub Util 30:672-3 N 5 '42
Antitrust green light plan worked out for all carriers. Nat Pet N 34:23 F 25 '42
Carriers on spot; Arnold prepares gigantic antitrust action. Business Week p17 Jl 25 '42
Changing pattern of industry; transportation industry. il Adv & Sell 35:40, 43-4+ N '42
Development of transportation in the United States. J. E. Teal. il Am Soc C E Proc 67: 1827-49 D '41; Discussion. 68:289-94, 475-6, 596-602, 807-11, 1809-14 F-My, D '42
Integrated transportation companies, now; abstract. D. D. Conn. Ry Age 113:58-9 Jl 11 '42
Lake-opening; ore and coal fleets ready for record-breaking season. il Business Week p17-18 Mr 21 '42
Looking ahead in transportation. V. T. Boughton. il Eng N 128:88-91 Ja 15 '42
President gives Congress report on plan for post-war transport. Comm & Fin Chr 156: 1718 N 12 '42
Public ownership of rights-of-way is urged; National resources planning board report. Ry Age 112:252-4 Ja 24 '42
Resources board's transport report. Ry Age 113:748+ N 7 '42
Study board issues public aid exhibits; Board of investigation and research created by the Transportation act of 1940; highway and waterway exhibits. Ry Age 112:1184-5 Je 20 '42
Total transportation index for the United States, 1929-42. L. J. Paradiso and G. Perkel. Survey of Cur Business 22:20-8 S '42
Transport czar scans the future; efficient transportation as lifeblood of war effort. S. Altschul. Barron's 22:4 F 23 '42
Transportation and national defense. J. L. White. 91p $1.50 Univ. of Pennsylvania press, Philadelphia '41
Transportation developments and prospects. R. Budd. Ry Age 112:9-11+ Ja 3 '42
Transportation in transition; how the war is changing industrial and railroad map. C. W. Meyer. Trusts & Estates 74:305-8 Mr '42
Transportation: key to our war effort. W. Gates. il Mag of Wall St 70:19-22+ Ap 18 '42
Transportation needs grow. Barron's 22:1 Ag 3 '42
Transportation troubles discussed; luncheon in connection with annual meeting of the Chamber of commerce of the United States. Ry Age 112:903-4 My 9 '42

See also
Railroads—Competitive transportation
Railroads—United States
Transportation in war
United States—Defense transportation, Office of

TRANSPORTATION, Military

Army traffic dept. adds to its staff; War department's transportation set-up. Ry Age 112:709-10 Ap 4 '42
City prepares plan for routing military convoys; Lynchburg, Va. Eng N 129:175 Jl 30 '42
Hot wings and cold set resins. il Mod Plastics 20:52-5 S '42
Many forms of transportation originated during periods of war. J. Early. il Barron's 22:9 F 23 '42
New Transportation corps is established by the army. il Ry Age 113:260-2 Ag 15 '42
Ships and planes and railroads were first built for military needs. J. Early. il Barron's 22:7 Mr 2 '42

See also
Automobiles, Military
Motor bus lines—Military use
Motor trucks, Military
Railroads—Military use
Railroads, Military
Roads—Military use
Roads, Military
Tractors, Military
United States—Army—Transportation corps

TRANSPORTATION advertising. See Advertising mediums—Rapid transit lines

TRANSPORTATION advertising, National association of. See National association of transportation advertising

TRANSPORTATION as a profession

Your career in transportation; employment opportunities in rail, highway, water and air transport. N. V. Carlisle. 188p bibliog(p178-81) $2 Dutton '42

See also
Transportation workers

TRANSPORTATION association of America

Morse raps Transportation assn.; member of War labor board answers criticism of its handling of T.P. & W. case. Ry Age 112: 792-3 Ap 18 '42

TRANSPORTATION in war

California's war transit problem, unusual. J. H. Collins. Pub Util 30:143-50 Jl 30 '42
Changing pattern of industry; transportation industry. il Adv & Sell 35:40, 43-4+ N '42
Coördination of transportation facilities. J. G. Scott. Pub Util 30:618-24 O 22 '42
Cross-hauling elimination by delivery zones studied. Oil Paint & Drug Rep 142:3+ O 12 '42
Defer conventions, fairs. J. B. Eastman. Comm & Fin Chr 155:2396 Je 25 '42
Eastman speedup. Business Week p68-9 F 28 '42
Essentials of transportation in wartime. J. B. Eastman. il Transit J 86:302-4 S '42
Highway transport in wartime. H. S. Fairbank. il Civil Eng 12:550-3 O '42
If cross-hauling goes, how will it affect advertising? P. T. Cherington. il Adv & Sell 35:13-15+ N '42
Improved haulage; new transportation setup of army and truckers. Business Week p37-8 S 19 '42
ODT advocates mid-week start for vacations. Comm & Fin Chr 155:2131 Je 4 '42
ODT will regulate commercial vehicles. Comm & Fin Chr 156:1101 S 24 '42
One city's answer to the tire shortage, the Pontiac plan. il Am Business 12:14-16 Jl '42
Our wartime travel problem. Barron's 22:1 Je 29 '42
Passenger car-bus now a problem. Nat Underw 46:27 My 21 '42
Passing of de luxe transit. T. N. Sandifer. Pub Util 30:82-8 Jl 16 '42

TRANSPORTATION in war—*Continued*

Pinch of shortages starting to affect military output as well as civilian life. E. Blair. Barron's 22:4 Je 1 '42

Place of transportation in the war effort; abstracts. R. Budd. Ry Age 113:180-2 Ag 1 '42; il Civil Eng 12:503-6 S '42

Plan conservation of N.Y. transportation. Comm & Fin Chr 156:25 Jl 2 '42

So all may ride; Pontiac plan of conserving worker transportation. Business Week p33-4+ Mr 28 '42

Transit's responsibility brings grave problems. J. B. Eastman. il Transit J 86:50-1 F '42

Transportation a factor in concentration. E. A. Leveille. Paint Oil & Chem R 104:72-4 N 5 '42; Same cond. Oil Paint & Drug Rep 142:54-5, 58 N 2 '42

Transportation by highway in England under fire, a lesson for us. F. C. Horner. Am Pet Inst Proc 22(1):67-70 '41

Transportation in transition; how the war is changing industrial and railroad map. C. W. Meyer. Trusts & Estates 74:305-8 Mr '42

Transportation in wartime. J. B. Eastman. il Banking 35:23-5 S '42; Same. Comm & Fin Chr 156:1083-4 S 24 '42

Transportation in war time. G. Tombs. Pulp & Pa of Can 43:9-12 Ja '42

Transportation: key to our war effort. W. Gates. il Mag of Wall St 70:19-22+ Ap 18 '42

Transportation: no. 1 headache. Management R 31:228-9 Jl '42

Transportation picture. Adv & Sell 35:59 Jl '42

Transportation problem grows with rationing. Eng N 129:sup168+ O 22 '42

Transportation under war conditions. G. M. Jackson. Soap & San Chem 18:97, 99, 101 S '42

War loads come first. Business Week p15-16 My 16 '42

War transport. Economist 141:655-6 N 29 '41

See also

Employees, Transportation of
Railroads in war
Rapid transit in war
World war, 1939—Transportation

TRANSPORTATION of employees. See Employees, Transportation of

TRANSPORTATION workers

Essential personnel deferred; Selective Service bulletin sent to local draft boards lists key occupations in transportation field. Transit J 86:390 O '42

TRANSVAAL

See also

Gold mines and mining—Transvaal
Steel works—Transvaal

TRAUMA

Cardiovascular system; relationship between injuries and diseases. J. H. Crawford. bibliog Ind Med 11:150-3 Ap '42

Pathology of trauma. A. R. Moritz. 386p $6 Lea & Febiger, Washington sq, Philadelphia '42

Trauma and cutaneous cancer. O. L. Levin and H. T. Behrman. bibliog Ind Med 10:519-25 D '41

Trauma and other occupational factors in tuberculosis. P. A. Quaintance. bibliog Ind Med 11:199-201 My '42

TRAVEL

Basic data relating to United States oversea travel account; tables 13-20. H. B. Lary and P. D. Dickens. U S Bur For & Dom Com, Economic Ser 17:80-90; pa 20c Supt. of doc. '41

Canada's travel problem. S. A. Shepherd. Bankers M 143:380-4+ N '41

Lost lands of escape; islands to which the white man habitually retreated from his own civilization. il Fortune 25:96-101 My '42

Our wartime travel problem. Barron's 22:1 Je 29 '42

Travel on bank credit shows rapid increase. Burroughs Clearing House 26:3 D '41

U.S.-Mexican travel hits peak in 1941. H. Jones. il For Comm W 8:6-8+ Ag 15 '42

What's ahead for recreational travel during and after the war? North American travel conference. B. Welbourne. il Bus Transportation 20:592-4 D '41

What's going to happen to summer travel? F. Snow. Adv & Sell 35:36+ My '42

See also

Air travel
Automobile touring
Motor bus lines—Student tours
Tourist trade

Advertising

Many states will promote travel, despite war, governors report. Sales Management 50:23-4 Mr 15 '42

What of resort advertising? F. Snow. Adv & Sell 35:70+ S '42

See also

Motor bus lines—Advertising
Railroads—Advertising

TRAVELING carnivals. See Carnivals, Traveling

TRAVELING exhibits. See Exhibits, Traveling

TRAVELING laboratories. See Laboratories, Traveling

TRAVELING waves. See Electric transient phenomena

TRAYS

All-America package competition; award to International silver co.; tarnish-preventing plastic tray for silverware. il Mod Packaging 15:190-1+ Ap '42

Plastics competition award to Keyes fibre co. il Mod Plastics 19:86-7 N '41

TRAYS, Refrigerator. See Refrigerator trays

TREASURY department. See United States—Treasury department

TREASURY notes. See Bonds, Government—United States

TREATIES, Commercial. See Commercial treaties and agreements

TREE planting

Book of trees. A. C. Hottes. 2d ed rev 440p bibliog(p428-9) $3.50 A. T. De La Mare co, New York '42

Planting to control drifts on highways; with cost data. C. G. Bates and J. H. Stoeckeler. il diags Eng N 129:92-6 Jl 16 '42

Spoil reclamation includes setting 7,000,000 trees in Illinois; strip-land reclamation. il map Coal Age 47:66-7 Ag '42

Tree planting best reforestation. Pulp & Pa of Can 43:324 Mr '42

TREE rings

Rapid method of correlation for continuous time series; tests on rainfall-tree growth data. W. S. Glock. Am J Sci 240:437-42 Je '42

TREES

American trees. R. T. Limbach. 39p $1 Random house, 20 E. 57th st, New York '42

Apparatus for the production of artificial frost injury in the branches of living trees. R. A. Studhalter and W. S. Glock. diag Science 96:165 Ag 14 '42

Copper treatment of sewers does not injure trees. Water Works & Sewerage 89:365 Ag '42

Forest trees of Illinois; how to know them. rev ed 70p Illinois. Dept. of conservation, Div. of forestry, Springfield '41

Gardener's third year, trees, vines and shrubs. A. Bates. 310p $2.50 Longmans '41

Interim results from girdling. A. Bickerstaff. Pulp & Pa of Can 43:773 S '42

Knowing your trees. G. H. Collingwood. rev ed 213p bibliog(p210) $2.50 Am. forestry assn, Washington, D.C. '41

Our shade trees. E. P. Felt. 2d ed 316p bibliog(p310-12) $2 Orange Judd pub. co, New York '42

Trees and shrubs of Florida. Science 96: sup7-8 Jl 31 '42

Trees, by the side of the road; overhanging trees camouflage sections of road. H. J. Neale. il Roads & Sts 85:50, 52-3, 56-7 F '42

TREES—*Continued*
Trees of the eastern United States and Canada, their woodcraft and wildlife uses. W. M. Harlow. 288p bibliog(p276-8) $2.75 McGraw-Hill '42

See also
Conifers
Forest fires
Forests and forestry
Roadside planting
Timberline ecology
Wood

also names of trees, e.g.
Baobab
Birch
Douglas fir
Hemlock
Maple
Pine
Poplar
Spruce

Diseases and pests

Forest pathology in British Columbia. J. E. Bier. Pulp & Pa of Can 43:528, 530 Je '42

Alaska

Dendrochronology in northern Alaska. J. L. Giddings, jr. 107p bibliog(p106-7) Univ. of Arizona, Tucson '42

TREES, Fossil
Supposed extinct maples; may be plane-tree or sycamore. R. W. Brown. Science 96:15 Jl 3 '42

TREMIE-placed concrete. See Concrete placing

TRENCHING machinery
Plow-type equipment useful in pipe-line construction. P. Reed. il Oil & Gas J 40:191-2 Ja 29 '42

Trench diggers help to increase tile manufacturer's profits. il Brick & Clay Rec 101:27-8 Jl '42

Trenchhoe attachment made with salvaged material. F. T. Adams. il Roads & Sts 85:82 O '42

TRESTLES
Concrete trestle-bridge construction on the Missouri Pacific railroad. R. P. Hart. il diags Engineering 154:161-3, 170, 201-2, 202, 210 Ag 28, S 11 '42

Trestle deck is made of old rails. il Eng N 127:896 D 18 '41

See also
Bridges

TRIANGULATION
Control surveys for military mapping; U.S. Coast and geodetic survey speeds the establishment of important reference network. C. L. Garner. il Civil Eng 12:554-5 O '42

TRIAZINES
See also
Melamine

TRIBROMOACETOPHENONE
Mechanism of the haloform reaction; the preparation of mixed haloforms. J. G. Aston and others. Am Chem Soc J 64:1413-16 Je '42

TRIBROMOSILICANE
Electron diffraction investigation of the molecular structures of silicon tetrabromide, tribromosilane, and dibromodifluorosilane. R. Spitzer, W. J. Howell, jr. and V. Schomaker. bibliog Am Chem Soc J 64:62-7 Ja '42

TRICALCIUM aluminate. See Calcium aluminates

TRICHEL pulses
Pulses in negative point-to-plane corona. L. B. Loeb, A. F. Kip and G. G. Hudson. bibliog il diags Phys R 60:714-22 N 15 '41

TRICHINA and trichinosis
Meat for millions. 282p New York state Trichinosis commission, Albany '41

Safe pork insured by storage at low temperatures. Sci Am 166:296-7 Je '42

Serologically active polysaccharide from trichinella spiralis. L. R. Melcher and D. H. Campbell. bibliog Science 96:431-2 N 6 '42

TRICHLORAMINE
Absorption spectra of mono-, di-, and trichloroamines and some aliphatic derivatives. W. S. Metcalf. Chem Soc J p148-50 F '42

TRICHLOROACETATES
Electric polarisation of mercurous trichloroacetate and of quinol bistrichloroacetate. N. R. Davidson and L. E. Sutton. Chem Soc J p565-7 S '42

TRICHLOROETHYLENE
Dry-cleaning fluids speed arms production; solvent degreasing. Iron Age 149:64-5+ Je 18 '42

Economising solvent; hints on operating trichlorethylene degreasing plants. W. F. Jesson. Automobile Eng 32:273-6 Jl '42

Effect of operating variables on the performance of a packed column still; system toluene-trichloroethylene. D. W. Duncan, J. H. Koffolt and J. R. Withrow. bibliog diag Am Inst Chem Eng Trans 38:259-80 Ap '42

Organic solvents; polyhydric alcohols; amine compounds; chlorethylenes. S. Yates. Textile Col 64:199-201 Ap '42

Rectification in the presence of an insoluble component. E. M. Schoenborn, J. H. Koffolt and J. R. Withrow. bibliog il diag Am Inst Chem Eng Trans 37:997-1016; Discussion. 1016-21 D '41

Trichlorethylene; hazards and precautions. Nat Safety N 45:54, 56 My '42

TRICHLOROFLUOROMETHANE
Heat capacity, entropy, heats of fusion and vaporization and vapor pressure of fluorotrichloromethane. D. W. Osborne and others. bibliog Am Chem Soc J 63:3496-9 D '41

TRICHOPHYTON rosaceum
Athlete's foot; a method for testing water soluble and water miscible fungicides used in the prevention of its spread. E. G. Klarmann, V. A. Shternov and S. M. Costigan. Soap & San Chem 17:129, 131+ D '41

TRI-CITY utilities company
Frankfort-Tri-City disagree on price. Elec W News ed 118:1202 O 10 '42

TRICRESYL phosphate
Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:85 O 5 '42

Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

TRIDYMITE
Tridymite problem; abstract. M. J. Buerger. Science 95:21 Ja 2 '42

TRIETHANOLAMINE
Silver plating of optical glassware; triethanolamine as a reducing agent. R. D. Barnard. Ind & Eng Chem 34:637-8 My '42

TRIETHYLAMINE
Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

Region of critical solution of binary liquids, evidence for an anomalous first-order transition in the system triethyl amine-water. L. D. Roberts and J. E. Mayer. bibliog diags J Chem Phys 9:852-8 D '41

TRIETHYLBISMUTH. See Bismuth compounds

TRIFLUORIDES
New method of synthesizing organic 1,1,1-trifluorides. A. L. Henne, A. M. Whaley and J. K. Stevenson. Am Chem Soc J 63:3478-9 D '41

TRIFLUOROPROPANE
Preparation and directed chlorination of 1,1,1-trifluoropropane. A. L. Henne and A. M. Whaley. bibliog Am Chem Soc J 64:1157-9 My '42

TRIGG, Ernest T. 1877-
50th anniversary in the paint industry. por Oil Paint & Drug Rep 142:5+ Jl 6 '42

TRIGONOMETRICAL functions
Natural trigonometric functions to seven decimal places for every ten seconds of arc. H. C. Ives. 2d ed 351p $9 Wiley '42

TRIGONOMETRY
Essentials of plane and spherical trigonometry. A. H. Sprague. 169p pa $1.35 Prentice-Hall '42

TRIGONOMETRY—*Continued*

Essentials of trigonometry, with applications, by D. R. Curtiss and E. J. Moulton; Heath's logarithmic and trigonometric tables, rev. ed. by E. J. Oglesby. 174p, 94p $2.25 Heath '42

Locating radius center by trigonometry. H. R. Bowman. diag Am Mach 86:512 My 28 '42

Logarithms, trigonometry, statistics; first year college mathematics. H. R. Cooley and others. 280p $2 McGraw-Hill '42

Plane and spherical trigonometry. F. A. Rickey and J. P. Cole. 209p $2.25 Dryden press, 103 Park av, New York '42

Plane and spherical trigonometry. P. R. Rider. 275p $2 Macmillan '42

Plane trigonometry, solid geometry and spherical trigonometry. W. W. Hart and W. L. Hart. 124p $2.60 Heath '42

Trigonometry, plane and spherical. M. C. Hartley. 298p, 24p with or without answers $1.60 Odyssey press, New York '42

Tables, calculations, etc.

Natural sines and cosines to eight decimal places. (Special pub. 231) 541p U.S. Coast and geodetic survey, Washington; $1.75 Supt. of doc. '42

TRIGONOMETRY, Plane

Mathematics for technical training; plane trigonometry with tables. P. L. Evans. 168p, 84p $1.25 Ginn '42

Modern trigonometry. M. J. G. Hearley. 168p $1.75 Ronald press '42

Plane trigonometry. E. R. Heineman. 167p, 75p $1.50; with tables $2; tables alone 75c McGraw-Hill '42

Plane trigonometry. L. M. Kells, W. F. Kern and J. R. Bland. 2d ed 303p $1.50; with tables $2.40 McGraw-Hill '42

Plane trigonometry made plain; with logarithmic and trigonometric tables. A. B. Carson. 389p $2.75 Am. technical soc, 58th st. & Drexel av, Chicago '42

Plane trigonometry with applications. W. L. Hart. 124p $2 Heath '42

TRIGONOMETRY, Spherical

Elements of spherical trigonometry. J. E. Thompson. 144p $1.65 Van Nostrand '42

Spherical trigonometry and tables. W. A. Granville. rev ed p211-70; 43p $1.25 Ginn '42

Spherical trigonometry with naval and military applications. L. M. Kells, W. F. Kern and J. R. Bland. 163p $1.50; with Five-place logarithmic and trigonometric tables. [118p] $2.40 McGraw-Hill '42

TRIHYDROXYCHOLANIC acid

Sterols; 3(α),11,12-trihydroxycholanic acid. R. E. Marker and others. Am Chem Soc J 64:1228-9 My '42

TRIHYDROXYPENTADECYLAMINE

Nature and constitution of shellac; preparation of 8,9,15-trihydroxypentadecylamine from aleuritic acid by the Naegeli-Curtius series of reactions. A. L. Davis and W. H. Gardner. bibliog Am Chem Soc J 64:1902-5 Ag '42

TRIHYDROXYSTEARIC acid

Diastereoisomerism of the 9,10,12-trihydroxystearic acids and the geometric configurations of ricinoleic and ricinelaidic acids. J. P. Kass and S. B. Radlove. bibliog Am Chem Soc J 64:2253-7 O '42

TRILOBITES

New mid-Cambrian ptychoparid. R. R. Wheeler. bibliog Am J Sci 240:567-70, pl 1 Ag '42

New upper Cambrian trilobites. C. E. Resser. Smithsonian Misc Coll v103, no5:1-136, pls 1-21 '42

Supposed color-markings in Ordovician trilobites from Ohio. J. W. Wells. diag pl Am J Sci 240:710-13 O '42

TRIMETHOXYBENZONITRILE

Behavior of pyrogallol trimethyl ether and 3,4,5-trimethoxybenzonitrile toward Grignard reagents. C. D. Hurd and H. E. Winberg. bibliog Am Chem Soc J 64:2085-6 S '42

TRIMETHYLACETOPHENONE

Mechanism of aromatic side-chain reactions, with special reference to the polar effects of substituents; physical and chemical evidence relating to the polar effect of *o*-methyl substituents in derivatives of the type $C_6H_2Me_3{\cdot}CO{\cdot}CH_2R$. J. W. Baker and W. T. Tweed. Chem Soc J p796-802 D '41

TRIMETHYLALUMINUM. See Aluminum compounds

TRIMETHYLAMINE

Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

Effect of formaldehyde on the volatilizations of ammonia, mono-, di-, and trimethylamines. G. J. Benoit, jr. and E. R. Norris. bibliog diag Ind & Eng Chem Anal ed 14:823-5 O 15 '42

Studies in stereochemistry; steric strains as a factor in the relative stability of some coördination compounds of boron. H. C. Brown, H. I. Schlesinger and S. Z. Cardon. bibliog il Am Chem Soc J 64:325-9 F '42

Study of the Menschutkin reaction using radioactive hydrogen as a tracer. D. Harman, T. D. Stewart and S. Ruben. bibliog Am Chem Soc J 64:2294-6 O '42

TRIMETHYL benzoic acid. See Isodurylic acid

TRIMETHYLCARBINOL. See Butyl alcohol

TRIMETHYLCYCLOHEXANE carboxylic acid

Trans - 2,2,6 - trimethylcyclohexanecarboxylic acid; a second solid naphthenic acid from California petroleum. B. Shive and others. bibliog Am Chem Soc J 64:385-91 F '42

TRIMETHYLCYCLOHEXENE carboxylic acid

1 : 3 : 3-Trimethyl-Δ^1-*cyclo*hexene-4-carboxylic acid; its formation from *l*-Δ^3-carene-5 : 6-epoxide. A. R. Penfold and J. L. Simonsen. Chem Soc J p206-9 Mr '42

TRIMETHYLDESYLAMINE

Reaction of β-isodurylaldehyde cyanohydrin with phenylmagnesium bromide. A. Weissberger and D. B. Glass. bibliog Am Chem Soc J 64:1724-7 Jl '42

TRIMETHYLHYDROQUINONE

Structure of the chloromethylation product of trimethylhydroquinone diacetate. L. I. Smith and R. B. Carlin. Am Chem Soc J 64:524-7 Mr '42

TRIMETHYLPENTANE

Some heat capacity data for gaseous 2,2,4-trimethylpentane. M. Kiperash and G. S. Parks. Am Chem Soc J 64:179 Ja '42

See also

Isooctane

TRIMETHYLENE glycol

Chain structure of linear polyesters; trimethylene glycol series. C. S. Fuller, C. J. Frosch and N. R. Pape. bibliog pls Am Chem Soc J 64:154-60 Ja '42

TRIMMINGS (for drapery, upholstery, etc.)

Display tricks for glamorizing the wallflower product; Consolidated trimming corp. il Sales Management 49:22-4 D 15 '41

TRINIDAD

See also

Labor and laboring classes—Trinidad

Petroleum industry and trade—Trinidad

Economic conditions

Trouble in Trinidad. Economist 143:13-14 Jl 4 '42

TRINITROTOLUENE

Discussion on trinitrotoluene poisoning; abstract. J Ind Hygiene 24:sup157-8 O '42

Methylation of aromatic nitro compounds with lead tetraacetate. L. F. Fieser, R. C. Clapp and W. H. Daudt. bibliog Am Chem Soc J 64:2052-60 S '42

TNT being made 70 percent from petroleum. Sci Am 166:81 F '42

T. N. T. health hazard; abstract. H. M. Roberts. J Ind Hygiene 24:sup53 Mr '42

TRINITROTOLUENE—*Continued*

Analysis

New colorimetric method for the determination of TNT (2,4,6,trinitrotoluene) in air. S. S. Pinto and J. P. Fahy. bibliog J Ind Hygiene 24:24-6 F '42

TRIODES. See Vacuum tubes

TRIPHENYLARSINE

Metalation of triphenylarsine. H. Gilman and C. G. Stuckwisch. Am Chem Soc J 63:3532-3 D '41

TRIPHENYLMETHANE

Rate and equilibrium studies of carbinol formation in the triphenylmethane and sulfonphthalein dyes. S. Hochberg and V. K. LaMer. bibliog Am Chem Soc J 63:3110-20 N '41

TRIPHENYLNAPHTHALENE

Polyphenylnaphthalenes; 1,2,3-triphenylnaphthalene. F. Bergmann, D. Schapiro and H. E. Eschinazi. bibliog Am Chem Soc J 64:559-61 Mr '42

TRIPHENYLOXINDOLE

Reaction of phenylmagnesium bromide with N-phenylisatin. W. C. Sumpter. Am Chem Soc J 64:1736-7 Jl '42

TRIPODS. See Camera tripods

TRIPPE, Juan Terry, 1899-

Daniel Guggenheim medal for 1941. por J Aeronautical Sci 9:142, 144 F '42

TRIPTERINE

Identity of the red pigment in the roots of tripterygium wilfordii and celastrus scandens. M. S. Schechter and H. L. Haller. Am Chem Soc J 64:182-3 Ja '42

TRITERPENES

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

Sapogenins; the position of the double bond in acids of the β-amyrin group; glycyrrhetic acid, siaresinolic acid, and acids of elemi resin. P. Bilham, G. A. R. Kon and W. C. J. Ross. Chem Soc J p532-50 S '42

Triterpene group; the constitution of breïn and maniladiol. I. M. Morice and J. C. E. Simpson. Chem Soc J p198-203 Mr '42

TRITIUM. See Hydrogen—Isotopes

TRITOLYLMETHANE

Tri-*o*-tolylmethane. P. D. Bartlett and J. E. Jones. bibliog Am Chem Soc J 64:1837-42 Ag '42

TRITON F. See Dimethyldibenzylammonium hydroxide

TRIUMPH explosives, incorporated

Annual report. Comm & Fin Chr 154:1152-3 N 22 '41

Gets navy E pennant; volume and profits up, outlook seen bright. Comm & Fin Chr 154:1106 N 20 '41

New board of directors; voting trust created. Comm & Fin Chr 156:1615 N 2 '42

Plant seized by Navy. Comm & Fin Chr 156:1423 O 19 '42

TROLLEY bus brakes. See Brakes, Trolley bus

TROLLEY buses

Exhibits of transit equipment; rail cars and trolley buses; pictorial review. Transit J 86:336-7 S '42

How cities are served. Transit J 86:18 Ja '42

How mass transportation is conducted in Columbus. M. A. Jarrow. il plan Mass Transportation 38:172-9+ Jl '42

How mass transportation is conducted in Memphis. M. A. Jarrow. il Mass Transportation 38:278-84 O '42

How mass transportation is conducted in Toledo. il Mass Transportation 37:351-8 D '41

More trolley buses in more cities. K. S. Putnam. il Transit J 85:454-6 D '41

New trolley-bus services; installations in Spain, Hawaii and America. Elec R (Lond) 129:436 O 24 '41

Vehicle orders hit all-time high. Transit J 86:19-20 Ja '42

See also Street railroads—Trolley bus substitution

Braking

See also
Brakes, Trolley bus

Electric equipment

Fundamentals of trolley coach motor maintenance. C. A. Atwell. il Transit J 85:462-5 D '41

Maintenance and repair

How Montreal won Transit Journal maintenance award for 1941. il diags Transit J 85:422-5 N '41

New facilities speed inspections in Wilmington; change of Delaware coach company from street cars to trolley coaches. il Transit J 86:212-14 Je '42

New streamlined facilities keep Seattle's coaches fit. M. D. Mills. il plan Transit J 86:132-5 Ap '42

Overhead construction

Exhibits of transit equipment; equipment for overhead line; pictorial review. Transit J 86:346-8 S '42

Fort Wayne likes trolley shoes. il map Transit J 86:248-9 Jl '42

Progress in development of trolley-coach overhead reflected in higher service standards. L. W. Birch. il diag Elec Eng 61:Trans 185-91 Ap '42

Safety measures

Safety inspection checks road vehicles; Chicago surface lines establishes test lane. il Transit J 86:140-1 Ap '42

Statistics

Transit progress in 1941; statistics; revenue, costs, rolling stock, etc. Transit J 86:9-27 Ja '42

Winter operation

Outside storage of buses in winter; experiences of various companies. Transit J 85:434-5, 470 N-D '41

TROLLEY cars. See Cars; Street cars

TROLLEY shoes. See Electric railroads—Trolley shoes

TROLLEY wire

Standard wires improve efficiency. Eng & Min J 143:69 O '42

TRONA, California

Expansion of the Trona enterprise; plant of the American potash and chemical corporation. G. R. Robertson. bibliog il Ind & Eng Chem 34:133-7 F '42

TRONA

Wyoming trona deposits; abstract. R. R. Sayers. Oil Paint & Drug Rep 142:37 Jl 20 '42

TROOP, James, 1853-1941

Sketch. J. J. Davis. Science 94:507 N 28 '41

TROPICAL medicine, American society of. See American society of tropical medicine

TROPICS

Application of the effective temperature scheme to the comfort zone in Netherlands India. J. A. Wiesebron and others. bibliog diags Heating-Piping 14:632-40 O '42

Expedition of the Department of tropical research of the New York zoological society. Science 96:422 N 6 '42

Testing goods for the Tropics. India Rubber W 106:617-18 S '42

Tropical climate and telecommunication technique. W. M. H. Schulze. Wireless Eng 19:304-8 Jl '42

Tropical receiver design. M. J. H. Lemmon. diag Inst E E J 89 pt 1:321-2 Jl '42

Tropical troubles of radio receivers. H. C. Schwalm. Electronics 15:126-8 Mr '42

See also
Architecture—Tropics

TROPICS—*Continued*

Diseases and hygiene

Ambassadors in white; the story of American tropical medicine. C. M. Wilson. 372p bibliog(p337-53) $3.50 Holt '42

How to live in the tropics. V. L. Hunt. 178p bibliog(p165-70) $2 Harcourt '42

Memoranda on medical diseases in tropical and sub-tropical areas. 282p $4.75 Chemical pub. co. '42

Post-graduate course in tropical medicine at Tulane university, 1941-1942. E. C. Faust. Science 94:610-11 D 26 '41

Stitt's Diagnosis, prevention and treatment of tropical diseases. E. R. Stitt. 6th ed 2v $21 Blakiston '42

Tropical medicine at Tulane university. Science 96:399 O 30 '42

See also Finlay institute of the Americas

TROSTEL, Louis Jacob, 1893-

President of the American ceramic society, 1942-1943. bibliog por Am Cer Soc Bul 21:64-5 My 15 '42

TROUT fishing

Effect of the full moon on trout fishing. C. M. Mottley and D. R. Embody. Am Statis Assn J 37:41-7 Mr '42

TROUTON'S law

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

TRUAX-TRAER coal company

Annual report. Comm & Fin Chr 156:1246 O 5 '42

TRUCKS

Lift-truck-skid materials handling system; Barrett-Cravens co. il Steel 110:94+ Je 8 '42

Materials handling with industrial trucks. W. S. McCann. il Paper Ind 24:152-5 My '42

Taylor & Wilson swarf truck. il Mech Handling 29:191 O '42

Why not build your own cylinder truck? W. R. Linden. diags Power Pl Eng 46:91 Ap '42

See also

Electric trucks, Industrial

Motor trucks

Motor trucks, Industrial

Wheels

Reducing truck-wheel costs by arc welding. G. G. Landis. il diags Mach 49:142-4 S '42

Rolling out production; resinoid truck wheels for industrial truck and caster purposes. il Mod Plastics 19:50+ Je '42

TRUMPETS

Experimental study of trumpet embouchure. H. W. Henderson. diags Acoustical Soc Am J 14:58-64 Jl '42

Taps for brass. il Mod Plastics 20:62-3+ N '42

TRUSSES

A-frames aid erection of 300-ft. trusses. il Eng N 129:150-2 Jl 30 '42

Airplane plant roof truss innovations; Glenn L. Martin co. plant. il diags Eng N 127:729-33 N 20 '41

Big trusses for tallest Dallas building; Mercantile bank building. il diag Eng N 128:782-4 My 7 '42

Construction expedients on warehouses; brick walls, precast concrete lintels, wood frame windows, and timber trusses. il Eng N 129:20-1 Jl 2 '42

Deflection of trusses. R. P. V. Marquardsen. W Soc E J 47:35-40 F '42

Economical timber trusses. G. L. Bilderbeck. Eng N 129:621 N 5 '42; Discussion. J. H. Carr, jr. 129:763 D 3 '42

Expansion provides Tacoma plant with 113 by 500-foot clear floor area; Pacific Forest warehouse. il diags Am Bld 64:58-9 Je '42

Fast truss fabrication; mid-western ordnance plant. il Eng N 129:440-1 S 24 '42

Lateral stability of unsymmetrical I-beams and trusses in bending. G. Winter. diags Am Soc C E Proc 67:1851-64 D '41; Discussion. 68:299-302, 477-9, 1404-6 F-Mr, O '42

Maintaining full section of truss chord angles. C. S. Wilson. diag Eng N 129:445 S 24 '42; Discussion. W. R. Crabtree. 129:935 D 31 '42

Plywood washers save metal in fabrication of timber trusses. il Eng N 128:934 Je 4 '42

Substantial service roads speed army base construction; warehouses for a quartermaster base; concrete and wood construction. il Eng N 128:768-71 My 7 '42

Timber trusses of 77.5-ft. span sold, ready-made, to shipyard. il Eng N 128:1041 Je 25 '42

Timber trusses with steel diagonals; aircraft plant in eastern Canada. il diag Eng N 129:589 O 22 '42

Tubing saves steel in long trusses. H. S. Card. diags Eng N 129:37-9 Jl 2 '42

See also

Beams

Bridges

Building

Girders

Roofs

Strains and stresses

TRUST companies

Future of trust business; abstract. G. T. Stephenson. Trusts & Estates 73:618 D '41

Meeting tomorrow's challenge; planning for profitable administration of smaller estates and business enterprises. E. S. MacNeill. Trusts & Estates 75:49-52 Jl '42

Trust business and the war; opportunities and cautions in serving smaller estates. Trusts & Estates 75:229-30 S '42

Trust business in transition; survey of trust advertising and new business in wartime. Trusts & Estates 74:379-82 Ap '42

Trust institutions in wartime. G. T. Stephenson. (Studies in trust business, 2d ser, no. 6) p111-36 bibliog(p135-6) Am. bankers assn, Trust division, 22 E. 40th st, New York '42

War affecting trust business in many ways. R. G. Stockton. Comm & Fin Chr 155:679 F 12 '42

Why don't you start a common trust fund? answering four principal objections. H. D. Roschen, jr. Trusts & Estates 74:281-5 Mr '42

See also

Banks and banking

Banks and banking—Trust departments

Insurance trusts

Investment trusts

Trust fees

Trust service

Trusts and trustees

also American bankers association—Trust division

Accounting

Auditing the trust department. E. P. Neilan. Bankers M 145:26-8, 30-1 Jl '42

Functional trust department auditing; opportunities for constructive service by auditor. F. E. Mewborn. Trusts & Estates 74:287-91 Mr '42

Trends in auditing trust department. R. C. Huelsman. Trusts & Estates 74:509-10 My '42

See also

Trusts and trustees—Accounting

Advertising

Are you a myope? seeing the long range value of cooperative advertising. H. H. Romanoff. Trusts & Estates 73:619-20 D '41

Battle of the budget; putting the case for trust advertising before bank's executive officers. A. Journeay. Trusts & Estates 74:577-80 Je '42

Opportunities in trust advertising. A. Journeay. Burroughs Clearing House 26:22-4+ Ap '42

Reason vs. emotion. Trusts & Estates 74:267-8 Mr '42; Reply. S. Clinton. 74:581-3 Je '42

Trust business in transition; survey of trust advertising and new business in wartime. Trusts & Estates 74:379-82 Ap '42

See also

Bank advertising

TRUST companies—*Continued*

Bibliography

New books. Published in monthly numbers of Trusts and estates

Customer relations

Seeing is believing; open house for customers and prospects proves business developer. C. B. Leonhard. Trusts & Estates 75:141-3 Ag '42

Trust customer relations; summary of panel discussion at A.B.A. trust conference. Trusts & Estates 74:153-4 F '42

See also
Trust companies—Public relations

Employees

Five answers to personnel shortage. E. L. Maas. Trusts & Estates 74:605, 608 Je '42

Fees

See Trust fees

Finance

Make existing trust accounts profitable. G. T. Stephenson. Bankers M 144:87 Ja '42

Insurance requirements

See Trusts and trustees—Insurance requirements

Investment advice

Investment review service; factors in determining extension to safekeeping customers. J. Moxon. Trusts & Estates 73:623-4 D '41

Investments

See Trusts and trustees—Investments

Law

See also
Trusts and trustees

Lawyers' cooperation

Attorney contact questionnaire; First national bank and trust company, Bridgeport, Conn. Trusts & Estates 74:385 Ap '42

Modernizing trust law; opportunities for joint endeavor by lawyers and trust men. W. P. Armstrong. Trusts & Estates 74:215-17 F '42

Legal service

Bar relations; employment of attorneys by trust company; engaging in practice of law. Trusts & Estates 74:530 My '42

Life underwriters' cooperation

Cooperative estate planning. W. R. Spinney. Trusts & Estates 74:492 My '42

See also Insurance, Life—Trust company cooperation

Management

Five answers to personnel shortage. E. L. Maas. Trusts & Estates 74:605, 608 Je '42

Investment review on the screen; aids trust committee and reduces costs. D. Munro. Trusts & Estates 74:511-12 My '42

Profitable and popular service; call to cooperative action in clearing away major obstacles to efficiency of personal trusteeship. Trusts & Estates 73:523-7 N '41

Savings in operations; economies for reducing trust costs. R. M. Kimball. Trusts & Estates 73:529-30 N '41

Small trust, a lawyer's viewpoint; suggestions for reducing costs in administration. R. R. Neuhoff. Trusts & Estates 75:389-97 O '42

New business

Blueprint for profitable trust business. A. Crawford. Trusts & Estates 75:235-9 S '42

Cancellation factor in new business. Trusts & Estates 74:51-2 Ja '42

Converting hidden assets to sales use; means other than pushing doorbells to sell trust service. E. S. MacNeill. Trusts & Estates 74:261-5 Mr '42

Corporate and personal agency opportunities. G. E. Parker, jr. Trusts & Estates 75:147-8 Ag '42

Creating a demand for trust services; abstract. V. Cullin. Trusts & Estates 73:627 D '41

Ideas for developing trust business. J. M. Zuber. Trusts & Estates 73:509-10 N '41; Abstract. Bankers M 144:89-90 Ja '42

New business in the trust field. A. Journeay. Banking 35:24-5+ O '42

New business program for small trust departments. E. S. Anderson. Trusts & Estates 74:155-6 F '42

Pattern for suburban trusteeship; approach to new business for smaller banks. C. M. Eldridge. Trusts & Estates 75:35-9 Jl '42

Salesman or technician; trust solicitor. Trusts & Estates 73:511 N '41

Public funds management

Charitable and public trusts. J. L. Toomey. Banking 34:47 F '42

Public relations

Charitable and public trusts. J. L. Toomey. Banking 34:47 F '42

Come down to street level. Trusts & Estates 74:159 F '42

Competition for executorships; bulk of business now goes to individuals. P. P. Pullen. Burroughs Clearing House 26:20-2+ Jl '42

Public relations program outlined; Pennsylvania trust men suggest novel plan. Trusts & Estates 73:621-2 D '41

Publicizing the life insurance trust. W. W. Delamater. Trusts & Estates 74:483-4 My '42

Trust educational campaign voted by Illinois bankers association. W. A. O'Brien. Trusts & Estates 74:477 My '42

Real estate operations

Adequate compensation for managing trust real estate. R. J. Hunter. Trusts & Estates 73:650 D '41

Records

Photographs trust records; Girard trust company of Philadelphia. Trusts & Estates 74:74 Ja '42

Reports

Modern design in annual reports; Fidelity-Philadelphia trust company. Trusts & Estates 74:157-8 F '42

Service

Prepare for wider service; war needs as forerunners to more extensive and economical trusteeship. G. T. Stephenson. Trusts & Estates 75:251-4 S '42

Canada

Trust business in Canada shows gain in 1941. Trusts & Estates 74:258 Mr '42

Great Britain

Trust service under fire; volume of business and internal organization experience in England. S. C. Hough. Trusts & Estates 74:174-6 F '42

TRUST fees

Adequate compensation for managing trust real estate. R. J. Hunter. Trusts & Estates 73:650 D '41

Negotiating satisfactory commission arrangements. R. E. MacDougall. Trusts & Estates 74:485-6 My '42

Trust compensation from beneficiary's point of view. G. T. Stephenson. Trusts & Estates 73:536-7 N '41

TRUST indenture act of 1939

SEC renders opinion on indenture trustees. Comm & Fin Chr 154:1215 N 27 '41

TRUST officers

Buck up, boys. F. B. Kirkbride. Trusts & Estates 73:502-3 N '41

Converting hidden assets to sales use; means other than pushing doorbells to sell trust service. E. S. MacNeill. Trusts & Estates 74:261-5 Mr '42

TRUST receipts

Aids in financing war goods. C. Djorup. Banking 34:27 Je '42

Financing coal dealers. Banking 35:54 Jl '42

TRUST service

Blueprint for profitable trust business. A. Crawford. Trusts & Estates 75:235-9 S '42

Cancellation factor in new business. Trusts & Estates 74:51-2 Ja '42

Converting hidden assets to sales use; means other than pushing doorbells to sell trust service. E. S. MacNeill. Trusts & Estates 74:261-5 Mr '42

New business in the trust field. A. Journeay. Banking 35:24-5+ O '42

Popularized trust services needed; cooperatively-owned or public central trust offices? J. G. Byram. Trusts & Estates 75:371-3 O '42

Prepare for wider service. G. T. Stephenson. Trusts & Estates 75:251-4 S '42

Trust company exhibits art collection; administration of John G. Johnson collection. Trusts & Estates 73:504 N '41

Trust service under war conditions. R. G. Stockton. Trusts & Estates 74:149 F '42

What trust prospects look for; six major qualifications of fiduciary revealed by survey. J. C. Madden. Trusts & Estates 73:505-6 N '41

TRUSTS, Industrial

Acid trust indictment trial may be deferred for duration. Oil Paint & Drug Rep 142:3+ Jl 6 '42

Acid trust suit postponement until after war asked by U.S. Oil Paint & Drug Rep 142:7 O 5 '42

Acrylic resins firms indicted as trust. Oil Paint & Drug Rep 142:3+ S 14 '42

A.M.A. trust guilt confirmed on appeal. Oil Paint & Drug Rep 141:3+ Je 22 '42

Anti-trust charges upheld against A.M.A. Comm & Fin Chr 156:111 Jl 9 '42

American tobacco co., Reynolds, Liggett & Myers denied new trial and fined. Comm & Fin Chr 154:1725 D 30 '41

Antitrust bargain; relaxation of enforcement foreseen. Business Week p15 F 14 '42

Antitrust holiday? Business Week p15-17 Ap 4 '42

Antitrust war policy and full production. T. Arnold and J. S. Livingston. Harvard Business R 20 no 3:265-76 [Ap] '42

Arnold hits again; indictment of California grocers. Business Week p77-8 Mr 14 '42

Arnold vs. ICC; sides with complainant in suit over trucking merger. Business Week p23-4 Ag 1 '42

A. & P. on the spot. Business Week p56+ N 7 '42

Bakers sentenced. Business Week p45 D 27 '41

Carriers on spot; Arnold prepares gigantic antitrust action. Business Week p17 Jl 25 '42

Chemical companies charged with anti-trust violation. Chem & Met Eng 49:119 Jl '42

Citrus indictments. Business Week p45 D 27 '41

Eight dyestuff firms indicted as trust. Oil Paint & Drug Rep 141:3+ My 18 '42

Fair-trade blitz; indictment against National wholesale druggists' assn. Business Week p50-1+ F 21 '42

Freightways sued; antitrust action filed. Business Week p81 F 14 '42

General Aniline indicted in trust case. Oil Paint & Drug Rep 140:4 D 22 '41

Glass container makers guilty in trust suit. Oil Paint & Drug Rep 142:3+ Ag 31 '42

Government's anti-trust action seen transforming advertising, selling and national economy. G. H. Montague. Comm & Fin Chr 155:2309 Je 18 '42

Gypsum trust suit ends in acquitals. Oil Paint & Drug Rep 140:3 N 24 '41

Gypsum trust sued in civil proceedings. Oil Paint & Drug Rep 142:5+ S 28 '42

Help for Arnold; Supreme court's decisions in Masonite and Univis cases. Business Week p28 My 16 '42

Investigation of concentration of economic power; final report of executive secretary. 435p Temporary nat. econ. com. Washington; pa 55c Supt. of doc. '41

Judge's decision in Toledo trial dissolves glass container patents. Cer Ind 39:26-7 S '42

Meat indictments. Business Week p83-4 D 6 '41

National wholesale druggists' association indictment text; with comment by H. Harper, counsel. Oil Paint & Drug Rep 141:3+ F 16 '42

Patent price-fixing against trust laws. Oil Paint & Drug Rep 141:5+ My 18 '42

Pharmaceutical companies cited in anti-trust action did not engage in pro-Axis practices. Business Week p28-9 Ja 10 '42

Plastics firms deny trust charges. Oil Paint & Drug Rep 142:7 O 12 '42

Readings in the social control of industry. 494p bibliog(p477-90) $2.75 Blakiston '42

Schering, Ciba, Rare Chemicals, Organon fined as trust. Oil Paint & Drug Rep 140:3+ D 22 '41

Settle fertilizer suit. Comm & Fin Chr 155:1359 Ap 2 '42

Small plants bill revised on trust laws. Oil Paint & Drug Rep 141:5 Je 8 '42

Tobacco companies fined. Ptr Ink 197:58 D 19 '41

Tobacco's "big three" testify on advertising. H. M. Wootten. il Ptr Ink Mo 43:5-8, 51-2 D '41

Toledo trial. Glass Ind 22:475+, 517+; 23:19, 60+, 334+ N '41-F, S '42

U.S. indicts 6 firms as explosive trust. Oil Paint & Drug Rep 141:3 Je 15 '42

Vitamin oil suit; Seattle fishing groups indicted on charges of maintaining prices illegally. Business Week p93-4 S 12 '42

War and peace and the patent system; the fight has less to do with patents than with free markets in a new world. il Fortune 26:102-5+ Ag '42

Warns industry to end trusts or be drafted. T. Arnold. Comm & Fin Chr 155:1710 Ap 30 '42

See also

Competition
Corporations
Interstate commerce commission
Monopolies
Production, Limitation of
Restraint of trade
Tariff
Trade associations

International trusts

No peace with I. G. Farben; case against the cartel system. map Fortune 26:104-7+ S '42

Patents for Hitler. G. Reimann. 316p $2.50 Vanguard press, 424 Madison av, New York '42

Pending on patents; current to-do over foreign cartel alliances. Business Week p20+ Ap 25 '42

That fifth column. C. Benedict. il Mag of Wall St 69:683+ Ap 4 '42

Under swastika? Swiss chemical industry. Business Week p82+ S 12 '42

See also Interessengemeinschaft farbenindustrie aktiengesellschaft

Law

Antitrust law litigation, 1941. Oil Paint & Drug Rep 141:38+ Ja 12 '42

Delivered-price systems under the anti-trust laws. G. H. Sage. Ind Marketing 27:22-3+ S; 32-3+ O; 72, 76+ N '42

Fixing resale price of patented articles violates trust law Supreme court holds. Comm & Fin Chr 155:1880 My 14 '42

Limitations statute off in trust cases. Comm & Fin Chr 156:1636 N 5 '42

Oil seeks clearer understanding of wartime anti-trust threats; full text of opinion given by Charles F. Francis, attorney to the Natural gas and natural gasoline committee, District no. 3, Houston, Tex. Nat Pet N 34:32-3 My 6 '42

Patents and antitrust law. L. I. Wood. 218p bibliog(p213-18) $3.50 Commerce clearing house '42

TRUSTS, industrial—Law—*Continued*

RCA, guinea pig; test case will determine whether consent decrees can be terminated. Business Week p16-17 S 12 '42

Roosevelt approves plan for deferring anti-trust actions which impede war effort. Comm & Fin Chr 155:1358-9 Ap 2 '42

State held "person" in Sherman act suit. Oil Paint & Drug Rep 141:4+ My 4 '42

WPB given power to waive anti-trust acts. Comm & Fin Chr 155:2216 Je 11 '42

Great Britain

Economics of price determination. C. C. Saxton. 190p 10s 6d Oxford '42

TRUSTS and trustees

Adapting trust services to new demands; New Jersey trust conference highlights. Trusts & Estates 73:615-17 D '41

Cases and materials on trusts and succession. L. M. Simes. 760p $6 Callaghan '42

Current trust practices; observations on voting stock, exculpatory clauses, advances, consents, etc. G. G. Bogert. Trusts & Estates 74:293-5 Mr '42

Drafting tomorrow's trust; meeting changes in living costs. R. H. Bolman. Trusts & Estates 74:275-8 Mr '42

Fiduciary decisions. Published in monthly numbers of Trusts and estates

Fiduciary decisions, 1941-1942. R. D. Niles. Trusts & Estates 75:311-16 S '42

Fiduciary law in wartime; Section of real property, probate and trust law, American bar association meeting. Trusts & Estates 75:275-325 S '42

Fiduciary legislation, 1941-1942. R. H. Spotts. Trusts & Estates 75:297-9 S '42

Handbook of the law of trusts. G. G. Bogert. 2d ed 738p $5 West '42

Legal phases of trust administration. Trusts & Estates 74:217 F '42

Modernizing trust law; opportunities for joint endeavor by lawyers and trust men. W. P. Armstrong. Trusts & Estates 74:215-17 F '42

Old-fashioned, professional trustee; an analysis of functions and typical appointments. F. B. Kirkbride. Trusts & Estates 75:139-40 Ag '42

Optional settlements and trusts. R. S. Crampton. Trusts & Estates 74:393-4 Ap '42

Prepare for wider service; war needs as forerunners to more extensive and economical trusteeship. G. T. Stephenson. Trusts & Estates 75:251-4 S '42

Profitable and popular service; call to co-operative action in clearing away major obstacles to efficiency of personal trusteeship. Trusts & Estates 73:523-7 N '41

Responsibilities in handling custodian accounts of individual fiduciaries. H. L. Thomson. Trusts & Estates 74:73 Ja '42

Trust service under fire; volume of business and internal organization experience in England. S. C. Hough. Trusts & Estates 74:174-6 F '42

Trustee's liability for retention of own stock; analysis of Stone case imposing absolute liability. O. F. Traylor. Trusts & Estates 73:670-4 D '41

Trusteeship in the war economy; discussion at Mid-continent trust conference meeting. Trusts & Estates 73:485-6 N '41

War emergency fiduciaries; considerations in framing statute to cover disability to act due to military or other war service. G. Newhall. Trusts & Estates 75:183-6 Ag '42

War's effect on estates and trusts; suggested will clauses and statutory changes. J. S. Montgomery, jr. Trusts & Estates 75:377-82 O '42

What trust prospects look for; six major qualifications of fiduciary revealed by survey. J. C. Madden. Trusts & Estates 73:505-6 N '41

When should trustee seek court advice? undertaking prudent business risks. W. Kennedy. Trusts & Estates 73:559-61 N '41

When should trustees seek court advice? judicial attitude toward petition for instructions. C. E. Taylor. Trusts & Estates 74:425-8 Ap '42

When should trustees seek court advice? limitations on jurisdiction to grant relief. A. B. Maginnes. Trusts & Estates 74:319-23 Mr '42

See also

Banks and banking—Trust departments
Community trusts
Deeds of trusts
Executors and administrators
Insurance trusts
Investment trusts
Life tenants and remaindermen
Pension trusts
Trust companies

Accounting

Collection expense on bonds in trust accounting. Trusts & Estates 74:100 Ja '42

Compulsory fiduciary accounting; disadvantages and benefits of annual filing. H. T. Davis. Trusts & Estates 75:165-6 Ag '42

Compulsory periodic audit. W. A. Rollins. Trusts & Estates 75:166 Ag '42

How auditors can assist in trust administration. E. P. Neilan. Trusts & Estates 74:598-600 Je '42

Operating a common trust fund. A. W. Whittlesey. Trusts & Estates 74:177-80 F '42

Tax accounting for common trust funds. H. D. Roschen, jr. Trusts & Estates 74:593-7 Je '42

Trustees intermediate accountings; frequency of adjudication would serve beneficiaries and trustees alike. W. M. Baker. Trusts & Estates 74:499-505 My '42

See also

Life tenants and remaindermen
Trust companies—Accounting

Bibliography

Trust and probate literature, 1941-1942. P. P. Lacovara. Trusts & Estates 75:300-10 S '42

Charitable trusts

Charitable and public trusts. J. L. Toomey. Banking 34:47 F '42

Cy pres in construing charitable trusts. H. U. Sims and G. E. Beers. Trusts & Estates 74:105-6 Ja '42

Common trust funds

Common sense in common trusts. E. P. Neilan. Trusts & Estates 75:63 Jl '42

Common trust fund changes; proposals for New York. G. C. Barclay. Trusts & Estates 74:612 Je '42

Common trust fund investments; assets of five funds of Philadelphia banks. Trusts & Estates 74:613 Je '42

Common trust fund savings under new brokerage rates. H. D. Roschen, jr. Trusts & Estates 74:407 Ap '42

Common trust fund: what makes it go? seven preliminary steps in operation. H. D. Roschen, jr. Trusts & Estates 74:403-7 Ap '42

Common trust funds for smaller trust departments? C. W. Fenninger. Trusts & Estates 74:181 F '42

Common trusts in Pennsylvania. C. R. Rosenberg, jr. il Burroughs Clearing House 26:20-2+ D '41

Competition in common trusts. Trusts & Estates 73:499-500 N '41

From a legal standpoint; investment of common trust funds in United States savings bonds. Fed Res Bul 28:7 Ja '42

Ideal common trust fund statute; Michigan's law. H. C. Lawrence. Trusts & Estates 74:523-4 My '42

Investment program and advantages of common trust funds; abstracts. E. A. Stuebner. Trusts & Estates 74:191-3 F '42; Bankers M 144:269-70 Mr '42

Is the common trust fund helpful in serving smaller estates? B. M. Wingfield. Banking 35:125-6 S '42

Legal hurdles in common trust fund operations. H. D. Roschen, jr. Trusts & Estates 75:83-9 Jl '42

Liquidity in common trust funds; mortgages mean segregations. A. W. Whittlesey. Trusts & Estates 75:167-8+ Ag '42

Mortgages for common trust funds. M. E. Lambing. Trusts & Estates 75:65-6 Jl '42

TRUSTS and trustees—Common trust funds—*Continued*

Operating a common trust fund. A. W. Whittlesey. Trusts & Estates 74:177-80 F '42; Excerpt. Comm & Fin Chr 155:667 F 12 '42

Plan for a common trust fund. A. W. Whittlesey. Trusts & Estates 73:641-6 D '41

Restrictions on common trust funds; requirement of bona fide fiduciary purposes clarified. B. M. Wingfield. Trusts & Estates 74:207-10 F '42

Selling the common trust fund. H. D. Roschen, jr. Trusts & Estates 75:365-9 O '42

Tax accounting for common trust funds. H. D. Roschen, jr. Trusts & Estates 74:593-7 Je '42

Valuation of savings bonds in common trust funds. Trusts & Estates 74:77 Ja '42

Valuation of series G bonds in common funds. G. Mueller. Trusts & Estates 75:163-4 Ag '42

Why don't you start a common trust fund? answering four principal objections. H. D. Roschen, jr. Trusts & Estates 74:281-5 Mr '42

Fees

See Trust fees

Insurance requirements

Big judgment revives interest in trustee cover. Nat Underw 45:27 N 13 '41

Public liability insurance; blanket policy suggested for fiduciary's risks not covered by standard forms. H. Pirtle. Trusts & Estates 75:57-62 Jl '42

Investments

Are industrial bond yields enough? E. L. Maas. Trusts & Estates 74:515-16 My '42

Balancing needs of income and protection of principal. F. L. Emeny. Trusts & Estates 73:545-7 N '41

Common stock control for trusts; procedure suggested for determining when to buy and sell. H. S. Valentine, jr. Trusts & Estates 75:401-2, 404-6 O '42

Common stock hearings; extension of legal list investment. J. W. Meader. Trusts & Estates 73:539-40, 542 N '41

Common trust fund investments; assets of five funds of Philadelphia banks. Trusts & Estates 74:613 Je '42

Comparative merits of equities. F. J. Travers. Trusts & Estates 73:661-2 D '41

Condemn for scrap; unproductive buildings. Trusts & Estates 75:399 O '42

Current problems in trust investments. D. E. Sharp. Bankers M 144:6-10 Ja '42

Defense bonds and the war. E. L. Maas. Trusts & Estates 74:79-80+ Ja '42

Defense bonds for trusts. G. F. Johnston. Trusts & Estates 73:544 N '41

Federal savings and loan shares as trust investments. H. Russell. Trusts & Estates 75:171-3 Ag '42

From a legal standpoint; investment of common trust funds in United States savings bonds. Fed Res Bul 28:7 Ja '42

Institutional and fiduciary investors. Comm & Fin Chr 156:7 Jl 2 '42

Investment powers; clause directing trustee to invest in interest bearing securities. Trusts & Estates 74:532 My '42

Investment programs of $100,000 of life insurance proceeds. Trusts & Estates 73:548-9 N '41

Large additions to New York legal list. A. Jansen. Barron's 22:9 Jl 6 '42

Letter to beneficiaries of the George Putnam fund of Boston from the trustees. Comm & Fin Chr 154:1111+ N 20 '41

Massachusetts rule; advocates statutory enactment of prudent man theory. M. A. Shattuck. Trusts & Estates 74:211-13 F '42

Mortgages for common trust funds. M. E. Lambing. Trusts & Estates 75:65-6 Jl '42

New criteria in selecting mortgages. I. Bussing. Trusts & Estates 75:257-8, 260 S '42

Prudent investor rule urged; abstract. F. G. Sayre. Trusts & Estates 73:611 D '41

Recent rulings affecting defense savings bonds. Trusts & Estates 73:543 N '41

Retention of bank stock by trust company which became affiliated with bank; acquiescence by settlor. Trusts & Estates 75:428 O '42

Review and analysis of trust investments; suggested procedure for smaller trust departments. W. Kennedy. Trusts & Estates 74:195-7 F '42

Role of institutional investors in war time; corporate fiduciary. R. G. Stockton. Trusts & Estates 74:45 Ja '42

Savings and loan association as a refuge for trust funds. G. Harold. J Business 15:166-83 Ap '42

Special bond issue to meet trustee need proposed. H. H. Jackson. East Underw 43:8 Je 5 '42

Valuation of savings bonds in common trust funds. Trusts & Estates 74:77 Ja '42

War time policy for trust investment. L. D. Edie. Trusts & Estates 75:69-71 Jl '42

When are mortgages investments? H. O. Frey. Trusts & Estates 75:73-4 Jl '42

When reorganization occurs; powers and duties of trustees to participate. R. P. Schur. Trusts & Estates 74:409-10, 412-14 Ap '42

When to buy and sell; mathematical plan of trust investment. C. F. Zukoski, jr. Trusts & Estates 74:187-90 F '42

See also
Trusts and trustees—
Common trust
funds

Living trusts

Settlement of voluntary trust accounts. J. H. Bartholomew, jr. Trusts & Estates 73:647-9 D '41

Pension trusts

See Pension trusts

Small trust funds

Administration of small trusts; separate unit, standardization and reduced activity as solution to unprofitability. R. S. Davis. Trusts & Estates 74:397-401 Ap '42

A.B.A. survey shows small-income trusts in majority. Bankers Mo 59:352 Ag '42

Popularized trust services needed; cooperatively-owned or public central trust offices? J. G. Byram. Trusts & Estates 75:371-3 O '42

Small income trusts in majority ABA finds. Comm & Fin Chr 155:1950 My 21 '42

Small-income trusts in the majority; tabulation by state. Trusts & Estates 74:476 My '42

Small trust, a lawyer's viewpoint; suggestions for reducing costs in administration. R. R. Neuhoff. Trusts & Estates 75:389-97 O '42

See also Trusts and trustees—Common trust funds

Successor trustees

Drafted trustees. Trusts & Estates 74:144 F '42

Duties of a successor fiduciary. M. T. Hazen. Trusts & Estates 73:675-6 D '41

Legislation on drafted trustees. Trusts & Estates 74:429 Ap '42

Substitute trustees for trustees in war service. F. D. Stone. Trusts & Estates 75:276-80 S '42

Taxation

Kentucky Appeals court rules on trust property taxation. Comm & Fin Chr 154:1544 D 18 '41

Trends in trust taxation; correlation of income, estate and gift taxes urged. N. E. Pierson. Trusts & Estates 75:91-3 Jl '42

Taxation problems

Contemplated revenue act; some desirable proposals. F. N. Williams. Trusts & Estates 73:562-6 N '41

Proper place of tax savings in estate planning. H. S. Koster. Trusts & Estates 74:72 Ja '42

Readjustments to meet higher taxes. A. R. Courtice. Trusts & Estates 75:53-5 Jl '42

TRUSTS and trustees—*Continued*

Termination of trusts

Settlement of voluntary trust accounts. J. H. Bartholomew, jr. Trusts & Estates 73: 647-9 D '41

TRYPANOCIDES

Chemotherapeutic comparison of the trypanocidal action of some aromatic diamidines. J. N. Ashley and others. Chem Soc J p103-16 F '42

TRYPSIN

Formation of chymotrypsin from chymotrypsinogen. J. A. V. Butler. bibliog Am Chem Soc J 63:2968-70 N '41

Inhibition of the proteolytic action of trypsin by soaps. R. L. Peck. bibliog Am Chem Soc J 64:487-90 Mr '42

Molecular kinetics of trypsin action. J. A. V. Butler. bibliog Am Chem Soc J 63:2971-4 N '41

Use of enzymes in the refractometric method for egg solids; a production control method. W. M. Urbain, I. H. Wood and R. W. Simmons. bibliog Ind & Eng Chem Anal ed 14:231-3 Mr 15 '42

TRYPTOPHAN

Baldness, cataracts, poor teeth and sterility may result from lack of tryptophane; abstract. W. Buschke, A. A. Albanese and R. H. Follis, jr. Science 95:sup8 Ap 10 '42

Cataract and certain other manifestations of tryptophane deficiency in rats. A. A. Albanese and W. Buschke. bibliog Science 95: 584-6 Je 5 '42

Enzymatic breakdown of tryptophan to indole. F. C. Happold and others. Chem & Ind 61:162-4 Ap 4 '42

TUBE investments, limited

Financial statement, years to Oct. 31, 1939-1941. Economist 141:726 D 13 '41

TUBE mills

Ball mills ahead of tube mills; Medusa portland cement co. il Rock Prod 45:34-5+ S '42

Direct firing with tube mills; Pennsylvania-Dixie cement corp. B. Nordberg. il diag Rock Prod 44:34-7+ D '41

Meeting fine-grinding requirements with the compartment mill. il diags Concrete (mill sec) 50:214-15+ Ag '42

Metal conservation in the mill; repair of a rod mill. W. H. Zieman. diags Can Min J 63:363 Je '42

Relining tube mill with zinc. W. B. Lenhart. Rock Prod 45:31 S '42

Manufacture

Unique floor speeds erection; American electric fusion corp. il diag Factory Management 99:92 D '41

TUBERCULIN

Quantitative studies of the tuberculin reaction; efficiency of quantitative patch test in detecting reactors to low doses of tuberculin. M. L. Furcolow and E. L. Robinson. bibliog Pub Health Rep 56:2405-15 D 19 '41

TUBERCULOSIS

Annual report of tuberculosis institutions for the years 1939 and 1940. 191p pa 25c Canada. Dominion bur. of statistics, Ottawa '42

Arrested tuberculosis and hospital employment. L. Brahdy. bibliog J Ind Hygiene 24: 53-8 Mr '42

Clinical tuberculosis. B. Goldberg and others, eds. 2d rev ed 2v $15 Davis '41

Control of tuberculosis in industry; management of the employee with pulmonary tuberculosis. G. A. Sherman. Ind Med 11:267-70 Je '42

Deaths from tuberculosis; abstract. Science 94:sup9 N 21 '41

Distribution of health services in the structure of state government; tuberculosis control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:65-90 Ja 16 '42

Effects of daily exposures to arc welding fumes and gases upon normal and tuberculous animals. L. U. Gardner and D. S. McCrum. bibliog il J Ind Hygiene 24:173-82 S '42

Grants of the National tuberculosis association. Science 95:115 Ja 30 '42

Handbook on tuberculosis for public health nurses. V. H. Hodgson. rev ed 91p pa 50c Nat. tuberculosis assn, New York '42

Health of workers in dusty trades; restudy of a group of granite workers. A. E. Russell. (Pub. health bul. 269) 71p U.S. Public health service, Washington; pa 15c Supt. of doc. '41

Modern attack on tuberculosis. H. D. Chadwick and A. S. Pope. 95p bibliog(p87-90) $1 Commonwealth fund, New York '42

New chemical remedy for tuberculosis. J. Stafford. Science 95:sup8 My 15 '42

Now it can be done; chest X-ray examinations. J. A. Goldberg. il Safety Eng 83: 37-9+ Je '42

Occupational and compensable disease; with special reference to tuberculosis. L. Brahdy. bibliog Ind Med 11:147-50 Ap '42

Prompt measures by the Ministry of health. Economist 143:478 O 17 '42

Quantitative studies of the tuberculin reaction; efficiency of quantitative patch test in detecting reactors to low doses of tuberculin. M. L. Furcolow and E. L. Robinson. bibliog Pub Health Rep 56:2405-15 D 19 '41

Serodiagnosis of tuberculosis and its value in the differential diagnosis of pneumoconiosis. especially silicosis and pulmonary tuberculosis; abstract. W. Heine. J Ind Hygiene 24:sup14-15 Ja '42

Trauma and other occupational factors in tuberculosis. P. A. Quaintance. bibliog Ind Med 11:199-201 My '42

Tuberculosis among nurses; study of effect of tuberculosis service on incidence of tuberculous infection and disease among student nurses; abstract. D. R. Hastings and G. B. Behn. J Ind Hygiene 24:sup89 My '42

Tuberculosis and pneumokoniosis among underground workers; abstract. I. I. Moshkovsky. J Ind Hygiene 24:sup122-3 Je '42

Tuberculosis germ; new discoveries. Science 94:sup12 D 26 '41

Tuberculosis in industry. Safety Eng 83:38-40 Mr '42

Tuberculosis in industry; report of the symposium held at the Saranac laboratory for the study of tuberculosis, Saranac Lake, N.Y., June 9-14, 1941. L. U. Gardner, ed. 374p pa $3 Nat. tuberculosis assn, New York '42

Statistics

Data on the concurrence of death from tuberculosis, influenza and pneumonia, cancer, and heart diseases among husbands and wives. A. Ciocco. bibliog Pub Health Rep 57:1333-42 S 4 '42

Tuberculosis control. G. Hirschfeld. il map Spectator (Life ed) 149:70-8 N '42

TUBES

Automatic turning device for handling long tubes. W. M. Halliday. diags Mech Handling 29:163-4 S '42

Design charts for tubes subjected to axial loads and combined stresses. W. C. Clayton. Aviation 41:169-70, 175 Jl '42

Design charts for tubes subjected to bending. W. C. Clayton. Aviation 41:80-2+ Ap '42

Design charts for tubes subjected to torsion. W. C. Clayton. Aviation 41:127, 129, 131 My '42

Distribution of velocity within a nest of tubes. R. P. Wallis. il diags Engineering 152:361-3, 401-3 N 7, 21 '41

Rust-proofing cadmium plated aircraft tubular parts. B. Gross. il Iron Age 150: 52-3 Jl 30 '42

Spherical joints for welded tubular structures. diags Mach 48:146-7 F '42

Tubes combined with rolled shapes in structural design. H. S. Card. il diags Iron Age 149:56-9 My 21 '42

Tubing for electrical insulation; Transflex. il Sci Am 166:242 My '42

See also

Boiler tubes
Condensers
Pipes

TUBES—*Continued*

Manufacture

Carbide dies for drawing and sinking metal tubing. E. Glen. diags Iron Age 150:64-5 Ag 27 '42

Tinned tubing; Linderme tube co. B. J. Higgins. il Steel 109:88 D 1 '41

TUBES, Aluminum

Testing

Study of the collapsing pressure of thin-walled cylinders. R. G. Sturm. il diags Ill U Eng Exp Sta Bul 329:1-77 bibliog(p75-7) '41 (pa 80c)

TUBES, Brass

Strength distribution in sunk brass tubing; abstract. G. Sachs, G. Espey and G. B. Kasik. Metals & Alloys 15:318+ F '42

TUBES, Copper

Corrosion tests of soldered joints on copper tubes. A. W. Tracy. il diag Heating-Piping 14:538-40 S '42

Determining productivity index of pumping well by copper tubing method. diags Pet Eng (Annual no) 13:115-16, 118 [Jl] '42

Reclaiming copper tubes by welding. il Ry Mech Eng 116:382-3 S '42

Tool for re-forming two-piece compression copper tubing couplings. J. C. Whitwell and W. T. McKee. diags Chem & Eng N 20:1109-10 S 10 '42

TUBES, Plastic

Extruded tubing in war production; specific uses. J. E. Pierce. il diag Mod Plastics 19:55-6+ Ag '42

Plastic material to replace copper in industry; Saran. Metal Finishing 39:679-80 D '41

To replace copper; thermoplastic tubing is chemically resistant. Sci Am 166:280 Je '42

Vinylidene chloride resin tubing. C. B. Branch and D. L. Gibb. il diag Mod Plastics 19:64-7+ My '42; Excerpts. Heating-Piping 14:353-4 Je '42

TUBES, Rubber

Pump with flexible rubber-tube action; Downingtown-Huber squeegee pump. il diags Mach 48:139-40 Mr '42

See also

Hose

TUBES, Steel

Bending and torsional design charts for round chrome-molybdenum tubing. V. C. Trimarchi. bibliog J Aeronautical Sci 9:213-19 Ap '42

Boat crane booms are welded from tubular members. il diags Steel 110:96, 99-100 My 25 '42

Bomber propeller blades formed from steel tubing. il Steel 110:51 Je 1 '42

Bombs from seamless tube. il Iron Age 149:59 Mr 19 '42

Bottleneck forms in small tubing. D. R. James. Iron Age 149:96-7 Je 25 '42

Detail design for joining by flash welding. L. W. Combs. il diags Product Eng 13:552-5 O '42

Fabricated stainless steel tubing; airplane engine cooling system. H. S. Card. il Welding J 21:625 S '42

High-temperature strength characteristics available for design of cracking-still tubes. C. L. Clark. Oil & Gas J 40:33-4 Ja 8 '42

Propeller blades from seamless steel tubing. il Automotive & Aviation Ind 86:28-9 Je 15 '42

Review of present-day welding of aircraft steels. A. J. Williamson. il J Aeronautical Sci 9:350-4 Jl '42

Rolls Royce cylinder liners cut from seamless steel tubing. il Aviation 41:155, 157, 159 Jl '42

Saving material by using tubing. W. A. Cather. diag Mach 48:125 F '42

Seamless steel tubing in light machine tools. R. G. Schaaf, jr. il diags Iron Age 150:46-50 S 24 '42

Seamless tube or bar stock? Am Mach 86:767 Jl 23 '42

Steel tubing for copper replacement. Mach 48:159 My '42

Tubing saves steel in long trusses. H. S. Card. diags Eng N 129:37-9 Jl 2 '42

Tubular members to save steel. H. S. Card. il Eng N 128:418-19 Mr 12 '42

Typical stress-strain curves; S.A.E. X4130-tubing; data sheet. Aviation 41:163 O '42

Weight-saving vs. cost in tubular design. H. S. Card. il diags Iron Age 148:50-5 N 13 '41

What is the collapsing pressure of a condenser tube? il Power Pl Eng 46:101-3 Jl '42

See also

Pipes, Steel

Manufacture

Advances in electric welding of tubes. D. A. Johnston. Iron Age 150:44-5 Jl 23 '42

Fabricating alloy steel tubing. il Iron Age 150:62F Jl 30 '42

Removing heat-treat scale. il Steel 111:64+ S 28 '42

Shortcuts in fabricating stainless manifolds. il Steel 111:126-7 Jl 13 '42

Spirally brazed tubing. W. A. Phair. il diag Iron Age 150:55-7 S 17 '42

Time control chart; heat treatment of S.A.E. X4130, X4135, X4340-tubing; data sheet. Aviation 41:161 O '42

Yoder automatic tube welder. A. Kellock. il Metal Prog 41:683-4 My '42

Testing

Carburization of cracking-still tubes during service. C. L. Clark. il Oil & Gas J 40:69-70 N 27 '41

Effects of residual stress and external restraint on some welding characteristics of SAE X-4130 steel tubing. G. Sachs and W. E. Davis. il diags Welding J 21:sup427-33 S '42

Residual stress in butt-welded S.A.E. X4130 tubing. G. Sachs and T. Graham. il Welding J 21:sup122-5 Mr '42

Residual stress in SAE X4130 steel tubing. G. Sachs and C. H. Campbell. bibliog il Welding J 20:sup553-8 N '41

Stress distribution in welded tube connections. F. L. Tocher. bibliog diags Welding J 21:sup125-8 Mr '42

Study of the collapsing pressure of thin-walled cylinders. R. G. Sturm. il diags Ill U Eng Exp Sta Bul 329:1-77 bibliog(p75-7) '41 (pa 80c)

Tests show effect on steels in cracking coil tubes of changes in chromium content. C. L. Clark. Nat Pet N 34:R147-50 My 13 '42

TUBES, Vacuum. See Vacuum tubes

TUBES (containers)

Collapsible tin tubes regulations issued. Oil Paint & Drug Rep 141:59 Ap 6 '42

Collapsible tube dilemmas. Ptr Ink 199:75 Ap 17 '42

Collapsible tubes order amended. Oil Paint & Drug Rep 141:3+ Je 22 '42

Extruded collapsible tube. il Mod Plastics 20:58-9 N '42

Fibre casings for plastic trims. il Mod Packaging 15:58 Je '42

New plastic tube; Bensel-Brice co. tubes to be made available to all toothpaste manufacturers. Business Week p57 F 21 '42

Plastic collapsible tubes. il Mod Packaging 16:31-3 N '42

Salvaging tubes; Tin salvage institute reclaims metals from used collapsible tubes. Business Week p83-4 My 23 '42

Toothpaste tubes to tanks. L. Bristol. Adv & Sell 35:87-8 Ag '42

TUBING seal-cap, inc.

Lusty war baby. Business Week p53-4 S 5 '42

TUCKERMAN, Louis Bryant, 1879-

Sketch. bibliog por Am Cer Soc J (Bul) 21:36-9 Mr 15 '42

TULANE university

Post-graduate course in tropical medicine, 1941-1942. E. C. Faust. Science 94:610-11 D 26 '41

Tropical medicine at Tulane university. Science 96:399 O 30 '42

TULAREMIA

Antitularemic serum. E. Francis and L. D. Felton. Pub Health Rep 57:44-55 Ja 9 '42

TULSA, Oklahoma

Libraries

Tulsa public library's petroleum collection. B. A. Osborne. Special Lib 33:126-7 Ap '42

TUMBLERS, Glass

Manufacture

Schutz continuous machine for forming and finishing footed tumblers. diags Glass Ind 23:344-5 S '42

Schutz tumbler machine. diag Glass Ind 23: 227 Je '42

Soubier forming machine suitable for tumblers. diag Glass Ind 23:226-7 Je '42

TUMORS

Analysis of human tumors diagnosed at the National institute of health, 1920-39. R. D. Lillie. bibliog Pub Health Rep 56:2284-307 N 28 '41

See also

Cancer

TUNA fish

Advertising

Flexible advertising strategy proves worth today; tuna packer uses fresh copy themes to meet new emergencies. il Ptr Ink 200:56 S 18 '42

TUNG oil

American tung industry comes of age. L. Swearingen. Paint Oil & Chem R 104:10+ Jl 2 '42; Discussion. O. Eisenschiml and G. Eisenschiml. 104:8-9 Ag 13 '42

Australian tung oil. For Comm W 8:27 Jl 25 '42

Brazil's tung-oil industry. For Comm W 8: 25-6 Ag 15 '42

Creating new wealth with tung trees; abstracts. W. M. Smith, jr. Chem Ind 50:517+ Ap '42; Chem & Met Eng 49:212-13 S '42

Drying oils and resins; alkali-induced isomerization of drying oils and fatty acids. T. F. Bradley and D. Richardson. bibliog il Ind & Eng Chem 34:237-42 F '42

Expression of vegetable oils; general equation on oil expression. E. C. Koo. bibliog Ind & Eng Chem 34:342-5 Mr '42

Solvent extraction of tung oil. W. G. Rose, A. F. Freeman and R. S. McKinney. diags Ind & Eng Chem 34:612-14 My '42

South Africa's new tung-oil industry. For Comm W 7:31 My 23 '42

Tung oil culture; questions and answers. H. A. Gardner, P. H. Butler and F. Scofield. 126p Nat. paint, varnish and lacquer assn, Washington, D.C. '41

Tung oil distribution restricted by OPM. Oil Paint & Drug Rep 141:5 Ja 12 '42

Tung oil output to set high record; meeting of Tung oil association. Oil Paint & Drug Rep 141:7+ My 11 '42

Tung oil substitutes. Oil Paint & Drug Rep 142:43-4 O 26 '42

Analysis

Woburn iodine absorption method; a measure of total unsaturation in the presence of conjugated double bonds. J. D. von Mikusch and C. Frazier. bibliog il Ind & Eng Chem Anal ed 13:782-9 N 15 '41

TUNGSTATES

Cathode films in tungstate-containing plating baths. M. L. Nielsen and M. L. Holt. bibliog Electrochem Soc Trans 82 (preprint 11):115-23 O '42

TUNGSTEN

Anisotropy of the electronic work function of metals. R. Smoluchowski. bibliog diags Phys R 60:661-74 N 1 '41

Brazilian exportation of tungsten (mineral) from 1937 through 1941. Chem Ind 51:614 O '42

Developments in the field of commodities. Barron's 22:6 Ja 5 '42

Electrochemistry of baths of fused aluminum halides; the deposition potentials of chromium, molybdenum, and tungsten. E. E. Marshall and L. F. Yntema. bibliog J Phys Chem 46:353-8 Mr '42

Ferro-alloy metals, 1941. H. W. Davis. Eng & Min J 143:48 F '42

Field emission from tungsten and thoriated tungsten single crystals. J. H. Daniel. bibliog il diag Phys R 61:657-67 My 1 '42

Peruvian production of tungsten. For Comm W 6:17 Mr 7 '42

Race for metals. il map Fortune 25:84-7+ Mr '42

Radiations from radioactive gold, tungsten, and dysprosium. A. F. Clark. bibliog Phys R 61:242-8 Mr 1 '42

Rate of crystal growth in drawn tungsten wires as a function of temperature. C. S. Robinson, jr. il J Ap Phys 13:647-51 O '42

Substitute for tungsten. Economist 142:301 F 28 '42

Thermal expansion of pure metals. F. C. Nix and D. MacNair. Phys R 61:74-8 Ja 1 '42

Total secondary electron emission from thin film of sodium on tungsten. K. G. McKay. bibliog diags Phys R 61:708-13 Je 1 '42

Tungsten and the Atlantic charter. J. L. F. Vogel. Engineer 174:112-13 Ag 7 '42

Tungsten deal; U.S. will buy Argentina's entire output. Business Week p67-8 D 6 '41

Tungsten deposits of Arizona. E. D. Wilson. (Bur. of mines bul. 148, Geological ser. 14) 54p Univ. of Arizona, Tucson '41

Tungsten; its occurrence, chemistry, use and metallurgy. D. C. McLaren. bibliog flow sheets Can Min J 63:627-39 O '42

Tungsten saver; Kennametal. il R Sci Instr 13:87-8 F '42

Vanadium, tungsten and chromium, 1941. il Min Cong J 28:50-2 F '42

Wolfram supplies; official scheme to purchase concentrates. Chem Age (Lond) 47:83 Jl 25 '42

See also

Electric lamps, Tungsten

Prices

New ruling to stimulate tungsten output. Eng & Min J 143:75 My '42

TUNGSTEN alloys

Electrodeposition of nickel-tungsten alloys from an acid plating bath. M. L. Holt and M. L. Nielsen. il Electrochem Soc Trans 82 (preprint 3):21-31 O '42

G.E.C. Heavy alloy, made by sintering tungsten powder with copper and nickel. Engineer 172:sup[Metallurgist] 39-40 O 31 '41

Heavy alloy developed by the British General electric co. G. H. S. Price, S. V. Williams and G. J. O. Garrard. Metal Prog 41:337+ Mr '42

Kut-Kost, a new metal-cutting alloy. Mach 49:159 O '42

See also

Iron alloys—Cobalt tungsten alloys
Stellite
Tungsten steel

TUNGSTEN carbide

Brass cartridge cases drawn with cemented carbide dies. F. J. Oliver. il diags Iron Age 150:41-8 Jl 2 '42

Carbide dies for drawing and sinking metal tubing. E. Glen. diags Iron Age 150:64-5 Ag 27 '42

No shortage in tungsten carbide. W. G. Robbins; R. T. F. Harding. Metal Prog 41: 680-1 My '42

Reply to statement that shortage of tungsten carbide exists because of patent-pooling agreement between General electric co. and the Krupp armament works. W. G. Robbins. Steel 110:42 Ap 20 '42; Same. Mach 48:182 My '42

Standard drawing dies (carbide) for small ammunition. E. Glen. il diags Metal Prog 42:229-32 Ag '42; Same. Mach 49:172-4 S '42; Same. Steel 111:78+ N 2 '42

Tungsten carbide patent agreement assured U.S. independent supply; abstract. Z. Jeffries. Steel 110:37+ Ap 27 '42

See also

Cutting tools, Carbide

TUNGSTEN lamps. See Electric lamps, Tungsten

TUNGSTEN metallurgy

Mining and milling tungsten ores at Boriana. W. H. Munds. il Min Cong J 28:16 S '42

TUNGSTEN metallurgy—*Continued*

Production of tungsten; electro-thermal methods reviewed. il diag Electrician 128: 472-5 My 15 '42

Tungsten; important war metal. D. C. McLaren. flow sheet il Min Cong J 28:29-33 Jl '42

Tungsten in Canada. D. C. McLaren. flow sheet map Eng & Min J 143:55-9 O '42

Tungsten; its occurrence, chemistry, use and metallurgy. D. C. McLaren. bibliog flow sheets Can Min J 63:630-9 O '42

TUNGSTEN mines and mining

Canada has tungsten producer in Northwest Territories; Slave Lake gold mines, ltd, on Outpost Island, recovers both metals, as well as copper. C. Bruder. il Eng & Min J 143:47-9 My '42

Mining and milling tungsten ores at Boriana. W. H. Munds. il Min Cong J 28:14-16 S '42

New aerial tramway for Tungstar. Eng & Min J 143:64-5 S '42

Old tungsten mine at Long Hill, Connecticut. F. H. Getman. il map J Chem Educ 19:215-17 My '42

Tungsten deposits in the Sierra Nevada near Bishop, California; a preliminary report. D. M. Lemmon. diags U S Geol S Bul 931-E:79-104, pl 13-19; pa 35c Supt. of doc. '41

TUNGSTEN ores

Arizona tungsten deposits. Min & Met 23: 464 S '42

Canadian tungsten; prospecting for scheelite. Chem Age (Lond) 47:303 O 3 '42

Concentrating tungsten ore by hand in Bolivia. H. L. Dotson. il Eng & Min J 143:64 Je '42

More tungsten; ore find in California and construction of refinery in Utah. Business Week p84-5 My 23 '42

Nation wide search for tungsten ore. Can Min J 62:835 D '41

New tungsten producers get $24.00 f.o.b. New York and Salt Lake cities. Min Cong J 28: 64-5 Je '42

Tungsten deposits in the Sierra Nevada near Bishop, California; a preliminary report. D. M. Lemmon. diags U S Geol S Bul 931-E:79-104, pl 13-19; pa 35c Supt. of doc. '41

Tungsten; important war metal. D. C. McLaren. flow sheet il Min Cong J 28:29-33 Jl '42

Tungsten in Canada. D. C. McLaren. flow sheet map Eng & Min J 143:55-9 O '42

Tungsten; its occurrence, chemistry, use and metallurgy. D. C. McLaren. bibliog flow sheet Can Min J 63:627-39 O '42

Tungsten prospecting in Gilmour Lake area. W. S. Walker. Can Min J 63:145-9 Mr '42

Tungsten resources of the Blue Wing district, Lemhi county, Idaho. E. Callaghan and D. M. Lemmon. diags maps U S Geol S Bul 931-A:1-21, pls 1-5; pa 30c Supt. of doc. '41

See also
Scheelite
Wolframite

TUNGSTEN steel

Ferro-alloys in Australia and notes on other metallurgical developments there. F. R. Kremmer. il Electrochem Soc Trans 81 (preprint 22):341-61 Ap '42

High speed steel scrap. Mech Handling 29: 119 Je '42

Substitute tungsten high-speed steels. Engineering 153:167-8 F 27 '42

Surface structures and chemistry of heat treated 18-4-1 steel. W. A. Schlegel. il Iron Age 148:45-50 D 4; 48-59 D 11; 54-8 D 18 '41

Tungsten alloys; order to conserve available supplies by restricting high speed steel. Mech Handling 29:91 My '42

Tungsten economy in high-speed tool steels. Engineer 173:452-3 My 29 '42

TUNING forks

Frequency sensitivity by resonant fork. H. L. Clark. diag Elec W 118:956-7 S 19 '42

Vacuum-tube-driven tuning-fork oscillator. diag R Sci Instr 13:84 F '42

TUNNEL air

Carbon monoxide and particulate matter in air of Holland tunnel and metropolitan New York. W. P. Yant and others. diags pls U S Bur Mines Rep of Invest 3585:1-69 '41

TUNNEL drainage

Overcoming underground difficulties; driving pressure tunnel in deep rock for Delaware aqueduct. F. W. Stiefel. il diags Comp Air M 46:6607-14 D '41

TUNNEL lighting

Sodium illumination for vehicular traffic tunnels. R. M. Swetland. il diag Illum Eng 36:917-26 N '41

TUNNEL lining

Chicago River subway crossing. G. S. Salter and H. J. Bartz. il Civil Eng 12:479-82 S '42

Concrete pumped downhill for a dam; control works of the earth and rock Indian Rock dam. C. M. Glines. il diag plan Eng N 128: 863-5 My 21 '42

Constructing the Delaware aqueduct under the Shawangunk range. F. W. Stiefel. il Civil Eng 12:201-2 Ap '42

Delaware aqueduct. il diag Engineer 174:271-2, 290-2 O 2-9 '42

Distribute concrete by pipe line in tunnel for dam; outfall for Marshall Creek dam. C. Campbell. il diags Concrete 50:2-4+ Ja '42

Grouting tunnel lining on the Delaware aqueduct. il diags plan Eng N 128:19-21 Ja 1 '42

Lining the world's longest tunnel; New York City's Delaware water supply system. il diag Eng N 127:792-7 D 4 '41

Merriman dam and Delaware aqueduct; construction progress and methods on water supply project for New York city. R. W. Armstrong. il Civil Eng 12:449-52 Ag '42

TUNNEL ventilation

Curious story of the ventilating tower; entries in Battery to Brooklyn tunnel contest. il Arch Forum 75:sup10, 12 N '41

Delaware aqueduct. il Engineer 174:248-9 S 25 '42

Fans, fan drives and control for vehicular tunnel ventilation. F. F. Kravath. diags Heat & Ven 38:38-42 N '41

Overcoming underground difficulties; driving pressure tunnel in deep rock for Delaware aqueduct. F. W. Stiefel. il diags Comp Air M 46:6607-14 D '41

Tunnel smoke filter. il Eng & Min J 142:63 N '41

Ventilating system for Continental Divide tunnel. il Engineering 152:510 D 26 '41

Ventilating system speeds up tunnel boring; Continental Divide tunnel. il Sci Am 166: 30-1 Ja '42

TUNNEL workers

Epidemic of boils in a group of tunnel workers. J. Q. Gant, R. J. Owens and L. Schwartz. bibliog Pub Health Rep 57:612-17 Ap 24 '42

Industrial hygiene control on tunnel construction in hydro-electric projects in western North Carolina. M. F. Trice. bibliog il Ind Med 11:364-8; Discussion. W. A. Cook. 368 Jl '42

Medical study of men exposed to measured amounts of carbon monoxide in the Holland tunnel for 13 years. R. F. Sievers, T. I. Edwards and A. L. Murray. (Pub. health bul. no.278) 74p bibliog(p65-72) U.S. Public health service, Washington; pa 15c Supt. of doc. '42

TUNNELS and tunneling

Apalachia project of the TVA; dam, conduit and penstock. C. H. Vivian. il map Comp Air M 47:6723-32 My '42

Camera shots at east portal of Continental Divide tunnel. Comp Air M 47:6663-4 F '42

Carlton tunnel drains Portland mine. il plan Comp Air M 46:6589-90 N '41

Century of tunnelling. W. T. Halcrow. il diags Inst Mech Eng J & Proc 146:Proc 100-16, pl 1-4 Ja '42; Same. Engineering 152:434-6, 457-60, 478-80, 498-500 N 28-D 19 '41; Same cond. Engineer 172:368-71, 389-91, 409-11 N 28-D 12 '41

TUNNELS and tunneling—*Continued*

Constructing the Delaware aqueduct under the Shawangunk range. F. W. Stiefel. il Civil Eng 12:199-202 Ap '42

Construction of Charleston's Edisto-Goose Creek tunnel. il map Pub Works 72:15-16+ N '41

Continental Divide tunnel, U.S.A. il Engineer 172:456-7 D 26 '41

Delaware aqueduct. il diags Engineer 174:226-8, 248-50, 270-2, 290-2 S 18-O 9 '42

Developing the Neversink watershed. T. L. Wells. il diags maps Explosives Eng 20:166-74 Je '42

Earth pressure on tunnels; Central Avenue tunnel, Detroit. W. S. Housel. diags Am Soc C E Proc 68:929-50 Je '42

Edisto river, Goose Creek tunnel aqueduct, Charleston, S.C.; tunnel driven thru marl. J. E. Gibson. il diags plan map N E Water Works Assn J 56:102-22 Mr '42

Finding the easy way; contractor departed from standard methods to handle difficult tunnel job. C. F. Thomas, jr. il Explosives Eng 20:7-9 Ja '42

Further notes on tunnelling practice. R. Hammond. diags Engineer 173:509-11 Je 19 '42

Headline projects of 1941. il Eng N 128:131 Ja 15 '42

Liner-plate tunnels on the Chicago (Ill.) subway. K. Terzaghi. diags map Am Soc C E Proc 68:862-99 Je '42

Merriman dam and Delaware aqueduct; construction progress and methods on water supply project for New York city. R. W. Armstrong. il Civil Eng 12:449-52 Ag '42

Modern tunnelling practice. R. Hammond. diags Engineer 174:344-5 O 23 '42

Overcoming underground difficulties; driving pressure tunnel in deep rock for Delaware aqueduct. F. W. Stiefel. il diags Comp Air M 46:6607-14 D '41

Photo-electric block system speeds tunnel trains; construction trains in the 13-mile Continental Divide tunnel. il Eng N 128:752 Ap 30 '42; Elec Eng 61:457 S '42; Elec West 89:44 N '42

Railways and air raids. il diags Engineer 173:208-1, 302, 303-4, 322-5, 340-2 Ap 3-24 '42

Shield tunnels of the Chicago subway. K. Terzaghi. diags plans Boston Soc C E J 29:163-210 Jl '42

Terre Haute constructs sewer by tunneling to avoid inconvenience to the public. R. E. Gibbons. il Pub Works 73:15-16+ Je '42

Tunnel construction, Sixth Avenue subway, New York. J. Feld. il diags plans Am Soc C E Proc 67:617-52 Ap '41; Discussion. 67:1759-60; 68:159-60 N '41, Ja '42

Tunnel survey methods and instruments. R. Hammond. diags Engineer 173:79-81 Ja 23 '42

Tunneling under difficulties; part of the Delaware aqueduct was drilled at great depths. R. G. Skerrett. il Sci Am 167:212-14 N '42

Tunnels for increasing Honolulu's artesian water supply. diag Pub Works 73:29 Ja '42

Water power for war; west portal of 13-mile Continental Divide tunnel, key link in Colorado-Big Thompson project. T. L. Wells. il diag map Explosives Eng 20:204-11 Jl '42

Water volume in partly filled tunnel. L. J. Sack diags Eng N 129:33 Jl 2 '42

See also

Aqueducts
Blasting
Drilling and boring (earth and rocks)
Excavation
Mining engineering
Pipe laying
Rock drills
Sewerage
Subways
Tunnel lining

also New York (city)—Tunnels

Cost

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:254-8 Ap 23 '42

Diversion and outlet tunnel for Granby dam, Colorado; unit prices. Eng N 127:820+ D 4 '41

Pedestrian tunnel, Cleveland, Ohio; unit prices. Eng N 127:700 N 13 '41

Moffat tunnel

Washers clear up car windows smudged in Moffat tunnel. il diags Ry Age 112:380-1+ F 14 '42

Safety measures

Safety in rock tunnel construction; New York City Delaware River aqueduct. F. W. Stiefel. il Explosives Eng 20:239-42 Ag '42

Some essential safety factors in tunneling. D. Harrington and S. H. Ash. il diags U S Bur Mines Bul 439:1-61; pa 15c Supt. of doc. '41

Tables, calculations, etc.

Quantities of cylindrical intersections. L. J. Sack. diags Eng N 128:618-21 Ap 23 '42

Vehicular tunnels

Automobiles and trains use trans-Andean railroad tunnel as highway link between Chile and Argentina. For Comm W 6:28 Ap 4 '42

Fans, fan drives and control for vehicular tunnel ventilation. F. F. Kravath. diags Heat & Ven 38:38-42 N '41

Here and there in business; Mobile's Bankhead tunnel. il Dun's R 49:48-52 O '41

One-lane tunnel accommodates two-way traffic by electronic operation. il Roads & Bridges 80:37, 86 S '42; Heat & Ven 39:34 O '42

Sodium illumination for vehicular traffic tunnels. R. M. Swetland. il diag Illum Eng 36:917-26 N '41

See also
Holland tunnel

TUNNELS and tunneling, Subaqueous

Chicago River subway crossing. G. S. Salter and H. J. Bartz. il Civil Eng 12:479-82 S '42

Here and there in business; Mobile's Bankhead tunnel. il Dun's R 49:48-52 O '41

TURBIDIMETERS

Particle size studies; methods. H. E. Schweyer. il Ind & Eng Chem Anal ed 14:622-32 Ag 15 '42

Testing

Calibrating a turbidimeter for measuring fineness. Concrete (mill sec) 49:284 D '41

TURBIDIMETRIC analysis

Direct determination of sulfur. G. L. Mack and J. M. Hamilton. bibliog Ind & Eng Chem Anal ed 14:604-6 Jl 15 '42

Rapid turbidimetric method for determination of sulfates; comparison with gravimetric method. J. F. Treon and W. E. Crutchfield, jr. Ind & Eng Chem Anal ed 14:119-21 F 15 '42

Turbidimetric determination of polymerized hydrocarbons in solution. B. Ferguson, jr. and M. D. Snyder. Ind & Eng Chem Anal ed 14:135 F 15 '42

TURBIDITY

Measurement of color and turbidity in solutions of white granulated sugars. E. E. Morse and R. A. McGinnis. bibliog Ind & Eng Chem Anal ed 14:212-17 Mr 15 '42

Some applications of wave-length turbidimetry in the infrared. C. E. Barnett. bibliog J Phys Chem 46:69-75 Ja '42

Turbidity comparator; useful in assaying physiologically active substances by measuring the growth of micro-organisms. R. P. Krebs and others. bibliog il diags R Sci Instr 13:229-32 My '42

TURBINES

Air admission increases hydro-turbine power. I. F. Richmond. diag Power 86:664-5 S '42

Conserving power; abstract. L. S. Marks. Science 95:sup8 Ap 17 '42

Space economy of vertical hydro units. il Elec W 118:170+ Jl 11 '42

Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46:64-85 Mr '42

TURBINES—*Continued*

Waterwheel shaft reground on job. R. J. Ruedy. il Elec W 117:516+ F 7 '42

See also

Air turbines

Gas turbines

Mercury turbines

Steam turbines

Windmills

Control

Supplementary control of prime-mover speed governors. S. B. Crary and J. B. McClure bibliog Elec Eng 61:Trans 209-14 Ap '42

Repair

Brazing restores reaction nozzles. il Elec W 117:2258 Je 27 '42

Metal spraying repairs hydro turbine runners. E. A. Woodhead. il Elec W 117:116 Ja 10 '42

Save time by machining turbine shaft in position; using 25-cycle power to motor a 60-cycle generator at low speed. J. I. Morgan. il Power 86:390-1 Je '42

Welded seal rings cost 60% less. il Elec W 117:2246+ Je 27 '42

Welding reclaims bronze hydro runner. G. H. Bragg. il Elec W 118:76-7 Jl 11 '42

Tables, calculations, etc.

Horsepower of hydraulic-turbine wheels. F. L. B. Miller. Mech Eng 64:612 Ag '42

TURBULENCE

Influence of turbulence on the structure and properties of steel ingots. L. Northcott. bibliog diags Iron & Steel Inst J 143:49-89, pl 1-11 no 1 '41; Summary. Iron Age 147:56 Mr 13 '41; Discussion. Iron & Steel Inst J 143:90-1 no 1 '41

Transfer processes in annuli. J. H. Wiegand and E. M. Baker. bibliog Am Inst Chem Eng Trans 38:569-88 Je '42; Discussion. 38: 588-92, 719-22 Je, Ag '42

Turbulent spreading of a water jet. A. M. Binnie. il Engineering 153:503-4 Je 26 '42

TURKEY

FDR felicitates Turkey; anniversary of founding of Republic. Comm & Fin Chr 156:1643 N 5 '42

Middle East. il Fortune 25:170 F '42

Turkey. B. Ward. 121p bibliog(p115) $1 Oxford '42

See also

Labor and laboring classes—Turkey

Leather industry and trade—Turkey

Mineral industries—Turkey

Steel works—Turkey

Commerce

Effect of war on Turkey's foreign trade. For Comm W 5:4-5+ D 13 '41

Turkey's trade in mid-'42. il For Comm W 8:8+ S 12 '42

Economic conditions

News by countries (cont). For Comm W 5: 20-1 D 6 '41; 7:19+ My 2; 22-3 Je 20 '42

Foreign relations

Defence of Turkey. Economist 143:378-80 S 26 '42

Russia

Russia and Turkey. Economist 143:8 Jl 4 '42

Social conditions

Social assistance in Turkey. Monthly Labor R 55:244-6 Ag '42

TURKEY, Smoked

Smoked turkey the year around. il Mod Packaging 16:54-6+ N '42

TURNBULL'S blue

X-ray diffraction studies on heavy-metal iron-cyanides. H. B. Weiser, W. O. Milligan and J. B. Bates. bibliog diags J Phys Chem 46:99-111 Ja '42

TURNER and Newall, limited

Annual general meeting, Manchester. Economist 142:165-6 Ja 31 '42

Turner and Newall profits. Economist 141:758; 142:49 D 20 '41, Ja 10 '42

TURNING

Carbides turn 550-Brinell steel. il Iron Age 148:59 D 11 '41

Centreless bar-turning and straightening machines. il Engineer 172:261-2 O 17 '41

Fixture for offset turning. F. H. Colvin. diag Am Mach 85:1265 D 10 '41

Form tool machines searchlight ring. F. C. Colvin. diag Am Mach 86:510 My 28 '42

Time chart for turning operations; reference book sheet. A. Thompson. Am Mach 85: 1235 N 26 '41

Tool and holder for form-turning copper band on shells. D. A. Baker. diags Mach 48: 137 My '42

See also

Lathes

TURNIPS, Dried

Army standards for dehydrated foods; rutabagas. Food Ind 14:100-1 N '42

TURNOVER

See also

Labor turnover

TURNTABLES

Crane rides old turntable to prepare pit for new one. il Eng N 128:481 Mr 26 '42

Portable turntable for large aircraft wins approval. Civil Aero J 3:108 Ap 15 '42

TURPENTINE

Developments in terpene chemicals. R. C. Palmer. bibliog il Ind & Eng Chem 34: 1028-34 S '42

Recovery of fats, waxes, resins, and turpentine from wood. M. W. Bray. bibliog Paper Tr J 115:41-2 S 3 '42

Solvents in industry. Metal Finishing 40:446 Ag '42

Stimulant for the pine belt. Fortune 26:26+ Jl '42

Turpentine and rosin, 1941. Chem & Met Eng 49:102-3 F '42

Turpentine test for grease resistance of paper; TAPPI tentative standard T 454 m-42. Paper Tr J 114:33 Ap 16 '42

Upgrading oleoresin by a new process; developed by the Naval stores station of the U. S. Department of agriculture. J. O. Reed. bibliog il Chem & Met Eng 48:68-70 D '41

See also

Naval stores

Statistics

Consumption of turpentine and rosin increased in last naval stores year. Chem & Met Eng 49:122+ Je '42

TURQUOISE

Prehistoric mining in America; Mount Chalchihuitl, New Mexico. E. R. Harrington. il Explosives Eng 19:358-60 D '41

TURTLES, Fossil

New turtle from the marine miocene of Oregon. E. L. Packard. 31p bibliog(p30-1) pa 50c Oregon state college, Corvallis '40

TUSKEGEE normal and industrial institute

Shop and class at Tuskegee; a definitive story of the Tuskegee correlation technique, 1910-1930. J. L. Whiting. 114p $2 Chapman & Grimes, 30 Winchester st, Boston '41

TWENTIETH Century-Fox film corporation

Another look. Mag of Wall St 70:29 Ap 18 '42

Thumbnail stock appraisal. Mag of Wall St 71:85 O 31 '42

TWENTIETH century fund, inc.

Twentieth century fund reviews work. Comm & Fin Chr 154:1231 N 27 '41

TWIN CITY rapid transit company

Holding company owning the entire stock of seven street railway and bus companies operating in St Paul, Minneapolis, and vicinity. Pub Util 30:504 O 8 '42

TWINE

See also

Agave fiber

TWINS

Method of co-twin control. A. Gesell. bibliog Science 95:446-8 My 1 '42

TWISTING machines

New rayon ring twister, completely redesigned. il Rayon 23:20-2, 53 Ja '42

TYPE and type founding

Type magic. E. E. Calkins. Adv & Sell 35: 80 Ap '42

See also

Advertisements—Typography
Initials
Printing—Specimens
Typesetting

Standards

How height of type was decided. Inland Ptr 108:74 N '41

Standard type measure. Inland Ptr 108:44 N '41

TYPE metal

War products consultation; strategic materials used in type metal; suggested use of bismuth. il Metal Prog 41:499-500 Ap '42

TYPESETTING

Circular copy fitting. Inland Ptr 108:66 D '41

Clock stopped! correcting a title page for Bruce Rogers. W. Fernald. Inland Ptr 109: 46-7 S '42

Streamlining composition saves valuable space. B. N. Fryer. Inland Ptr 109:66 Ap '42

Tricks with type and rules and ornaments. il Inland Ptr 108:72 F '42

Trim time when you are trimming slugs. F. D. Compagnon. Inland Ptr 109:32 Jl '42

Typographic clinic; Baker University booklet. F. H. Young. il Inland Ptr 109:52-3 My '42

See also

Advertisements—Typography
Linotype operators
Printing
Printing, Practical
Type and type founding

Study and teaching

Use giant type in instruction of printing students. il Inland Ptr 109:52 S '42

TYPEWRITER industry

Back to the quill; freezing of typewriters. Business Week p25-6 Mr 14 '42

Ban typewriter production. Comm & Fin Chr 156:455 Ag 6 '42

OPA places ban on rental of new typewriters. Comm & Fin Chr 156:813 S 3 '42

Problem of goods suddenly off the market; with a note on the typewriter situation. Consumers' Research Bul 9:26 Ap '42

Typewriter rental, sale frozen by War board. Comm & Fin Chr 155:1063 Mr 12 '42

Typewriters a war industry. E. C. Faustman. Barron's 22:8 Ja 12 '42

TYPEWRITERS

Conservation, the keynote in this wartime emergency; Remington Rand's typewriter conservation plan. il Banking 35:72 S '42

Machine lettering speeds drafting. Iron Age 150:38 O 8 '42

New process restores rubber typewriter rollers. il Rubber Age 51:490 S '42

OPA broadens typewriter rationing eligibility. Comm & Fin Chr 156:1359 O 15 '42

Platens revivified; grinding process developed by Studebaker. il Business Week p66 O 24 '42

Renews typewriter cylinders without new rubber. il Am Business 12:13 Ag '42

Use and advantages of electric typewriters. Management R 31:80 Mr '42

Wanted at once: 600,000 used typewriters. Am Business 12:10-11 S '42

Your typewriters; government needs some of them. Business Week p28+ S 5 '42

TYPEWRITERS, Automatic

Automatic typing in the billing department; Larrowe milling company, Detroit. il Am Business 12:30-2+ Mr '42

Auto-typist. Dun's R 50:35 F '42

Dual pneumatic drive speeds automatic machine; typewriter for duplicating letters from rolls. H. W. Kloid. il diags Machine Design 14:99-102+ Ap '42

TYPEWRITING

Artyping. J. Nelson. 91p pa $1 Gregg '40

New standard typewriting. N. Altholz and C. E. Smith. rev ed 238p $1.75 Pitman '41

20th century typewriting; one-year course. D. D. Lessenberry. 4th ed 215p $1.40 Southwestern pub. co. '42

20th century typewriting; two-year course. D. D. Lessenberry. 4th ed 326p $1.76 Southwestern pub. co. '42

TYPHOID carriers

Sulfaguanidine noneffective in the treatment of typhoid fever and typhoid carriers. J. Watt and J. S. Peterson. Pub Health Rep 57:872-3 Je 5 '42

TYPHOID fever

Safe water and typhoid toll; campaign against water-borne typhoid by Engineering news. M. N. Baker. Eng N 128:551 Ap 9 '42

Sulfaguanidine noneffective in the treatment of typhoid fever and typhoid carriers. J. Watt and J. S. Peterson. Pub Health Rep 57:872-3 Je 5 '42

Typhoid fever vaccine; research by Dr Jules Freund. Science 96:sup12 N 6 '42

Preventive inoculation

Immunization to typhoid fever; results obtained in the prevention of typhoid fever in the United States army, United States navy, and Civilian conservation corps, by the use of vaccines. 276p $2.50 Johns Hopkins press, Baltimore '41

Statistics

Typhoid in the large cities of the United States in 1940. Am Water Works Assn J 34:449-57 Mr '42; Abstract. Water & Sewage 80:21-2 Jl '42

TYPHUS fever

Bivalent typhus vaccine of high immunizing value. M. Ruiz Castaneda. Science 96:304 S 25 '42

Disease in wartime. Science 95:530-1 My 22 '42

Susceptibility of the eastern cotton rat, Sigmodon hispidus hispidus, to European typhus. J. C. Snyder and C. R. Anderson. Science 95:23 Ja 2 '42

Typhus; factors essential for development of major epidemic; abstract. R. E. Dyer. Science 95:sup7 Ja 30 '42

Use of the complement fixation test in Rocky Mountain spotted fever. H. Plotz and K. Wertman. Science 95:441-2 Ap 24 '42

TYPOGRAPHY. See Printing

TYROSINASE

Factors influencing the catecholase activity and inactivation of tyrosinase; the effect of gelatin and of catechol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 63:3368-74 D '41

Factors influencing the cresolase activity of tyrosinase; the effect of gelatin and *p*-cresol concentration. W. H. Miller and C. R. Dawson. bibliog Am Chem Soc J 64: 2344-8 O '42

New method for the measurement of tyrosinase catecholase activity. W. H. Miller and C. R. Dawson. Am Chem Soc J 63:3375-82 D '41

TYROSINE

Determination of tannin substances in boiler waters. A. A. Berk and W. C. Schroeder. bibliog Ind & Eng Chem Anal ed 14:456-9 Je 15 '42

Kinetics and mechanism of 2,6-di-iodityrosine formation. Choh Hao Li. bibliog Am Chem Soc J 64:1147-52 My '42

Specific rotation of *l*-tyrosine. W. H. Stein, S. Moore and M. Bergmann. bibliog Am Chem Soc J 64:724 Mr '42

TYROTHRICIN

Potent germ killing substance obtained from bacilli that live in the soil; abstract. J. R. Lindsay. Science 96:sup 11 O 23 '42

U

UKRAINE

Debatable land. Economist 142:314-15 Mr 7 '42

UKRAINE—*Continued*

Industrial prize of the Ukraine; can be important factor in export steel markets. P. Loboff. map Barron's 21:3 N 17 '41

Ukraine; a history. W. E. D. Allen. 404p $4.50 Macmillan '41

Ukraine, a Russian land. P. Brégy and S. Obolensky. 260p $3.75 Ryerson press '40

See also

Agriculture—Ukraine

ULCERS

See also

Ointments

ULCERS, Peptic. See Stomach—Diseases

ULEN and company

Stricken from listing and registration. Comm & Fin Chr 156:167-8 Jl 13 '42

ULTRACENTRIFUGES. See Centrifuges

ULTRASONIC waves

Biological application of focused ultrasonic waves. J. G. Lynn, R. L. Zwemer and A. J. Chick. diags Science 96:119-20 Jl 31 '42

Cochlear potentials elicited from bats by supersonic sounds. R. Galambos. bibliog diags Acoustical Soc Am J 14:41-9 Jl '42

Further studies on a molecular rearrangement induced by ultrasonic waves. E. W. Barrett and C. W. Porter. Am Chem Soc J 63:3434-5 D '41

Improved apparatus for supersonic velocity and absorption measurements. D. Telfair and W. H. Pielemeier. bibliog diags R Sci Instr 13:122-6 Mr '42

Isolation of an ultrasonic crystal radiator from conducting liquids. J. W. McGrath and A. R. Kurtz. diag R Sci Instr 13:128-9 Mr '42

Supersonic absorption and Stokes' viscosity relation. L. Tisza. bibliog Phys R 61:531-6 Ap 1 '42

Supersonic flow in turbines and compressors. K. W. Sorg. Roy Aeronautical Soc J 46:64-85 Mr '42

Supersonic measurement of the heat capacity of propylene. D. Telfair. bibliog J Chem Phys 10:167-71 Mr '42

Ultrasonics; possible application of ultrasonic waves to metallurgy. Min & Met 22:596 D '41

ULTRAVIOLET rays

Black-out preparations in the United States. H. E. Millson. il News Ed 19:1266+ N 25 '41

Can fading be reduced by filtering fluorescent light? M. Luckiesh and A. H. Taylor. Illum Eng 37:265-6 My '42

Effect of ultraviolet light on polycyclic hydrocarbons in sterol surface film systems. W. W. Davis, M. E. Krahl and G. H. A. Clowes. Science 94:519-20 N 28 '41

Elimination of contaminants with ultra-violet radiation. A. M. Kligman. Science 96:69-70 Jl 17 '42

Far ultraviolet reflectivities of metallic films. M. Banning. diags Opt Soc Am J 32:98-102 F '42

Fatigue effect in luminescent materials. N. C. Beese and J. W. Marden. bibliog diags Opt Soc Am J 32:317-23 Je '42

New sources of ultraviolet light; abstract. E. W. Beggs. Science 96:sup6 Jl 31 '42

Transmission of photographic layers in the ultraviolet. M. H. Sweet. bibliog Opt Soc Am J 32:324-5 Je '42

Ultra-violet light and its applications. H. C. Dake and J. De Ment. 209p bibliog(p198-200) $3.25 Chemical pub. co. '42

Ultraviolet reflectance characteristics of various materials. A. H. Taylor. Illum Eng 36:927-30 N '41

See also

Electric lamps, Fluorescent
Fluorescence
Raman effect
Spectrum, Ultra-violet

Biological effect

Bactericidal radiation. A. R. Dennington. il diag Am Dyestuff Rep 31:382-5 Ag 3 '42

Bactericidal radiation. A. Paulus. il diag J Ap Phys 13:300-4 My '42

Germ-killing by ultra-violet light has great possibilities. Sci Am 166:297 Je '42

See also

Ultraviolet rays—Lamps

Industrial applications

Herman's method for the determination of mercury; ultraviolet lamp and fluorescent screen used. J. M. Samuel. il Eng & Min J 143:58-9 Je '42

Paint baking with infrared plus ultraviolet. H. J. Bennett and H. Haynes. Illum Eng 37:115-17 F '42

Some aspects of fluorescence. J. A. Radley. Soc Dyers & Col J 58:49-51 Mr '42

Lamps

Allies of refrigeration in food preservation. A. W. Ewell. Refrig Eng 43:160-1 Mr '42

Bactericidal radiation. A. R. Dennington. il diag Am Dyestuff Rep 31:382-5 Ag 3 '42

Bactericidal radiation. A. Paulus. il diag J Ap Phys 13:300-4 My '42

Carbon arc, a valuable industrial tool. W. C. Kalb. bibliog il Elec Eng 61:Trans 581-5 Ag '42

Designing installations of germicidal lamps for occupied rooms. M. Luckiesh and L. L. Holladay. Gen Elec R 45:343-9 Je '42; Same cond. Electrician 129:219-22 Ag 28 '42

Fluorescent light; the prospector's new tool; ultra-violet lamp aids in determining presence of scheelite and other minerals. R. Hamilton. il Min Cong J 28:52-3 Ap '42

Germ killers; ultra-violet lamps put to more new uses. il Sci Am 167:202 N '42

Milk protection; ultra-violet rays kill bacteria; new U-shaped sterilamp. il Sci Am 167:28 Jl '42

New sunlamp operates without auxiliaries; use of thermostatic metal. G. A. Freeman. diag Elec W 117:312 Ja 24 '42

Portable ultraviolet lamp for the prospector. Comp Air M 47:6826 Ag '42

Radiant energy measurements with thermopiles. N. C. Beese. Opt Soc Am J 31:705-8 N '41

Sanitary ventilation; eliminating microorganisms by ultraviolet radiation. W. F. Wells. diags Heating-Piping 14:143-5 F '42

Sterilamps benefit dining car service; beef tenderizing process. il Elec W 117:118+ Ja 10 '42

Sterilamps stop mold on stored sausage. il Elec W 116:2073 D 27 '41

Sterilized air cuts illness, gives us better products; Bristol-Myers co. H. C. Jackson. il diag Factory Management 99:81-2 D '41

Tests and data on disinfection of air with germicidal lamps. M. Luckiesh and L. L. Holladay. bibliog diags Gen Elec R 45:223-31 Ap '42

Tungsten prospecting in Gilmour Lake area. W. S. Walker. Can Min J 63:145-9 Mr '42

Ultraviolet illumination. J. H. Nelson. Light & Lighting 34:109-17 Ag '41

Ultraviolet in air conditioning systems. T. R. Porter. il Heat & Ven 39:27-9 S '42

Ultraviolet irradiation by means of linear high pressure mercury lamps. W. T. Anderson, jr. Opt Soc Am J 32:121-2 F '42

Uses of ultra-violet radiation. J. R. Harris. Electrician 129:39 Jl 10 '42

Measurement

Electronic eye records ultraviolet in sunshine. Refrig Eng 44:175 S '42

Measurements of ultraviolet solar- and sky-radiation intensities in high latitudes. W. W. Coblentz, F. R. Gracely and R. Stair. bibliog pl J Research Nat Bur Stand 28:581-91 My '42

Physiological effect

Sun bathing by miners in Great Britain; abstract. W. Beaumont. Science 96:sup7 Jl 31 '42

See also

Ultraviolet rays—Lamps

ULTRAVIOLET rays—*Continued*

Therapeutic use

Ultraviolet rays and virus diseases. Science 95:sup10 Ja 9 '42

Ultraviolet reduces hospital infections. Elec W 117:1224 Ap 4 '42

ULTRAVIOLET spectrum. See Spectrum, Ultraviolet

UMBRELLA fabrics

Pin holes in acetate umbrella goods. Rayon 23:302 My '42

UNCLAIMED policies. See Insurance, Life—Policy settlement—Unclaimed policies

UNCONFORMITY (geology)

Criteria for subsurface recognition of unconformities. W. C. Krumbein. Am Assn Pet Geologists Bul 26:36-62 Ja '42

UNDECANOIC acid

Macromolecular properties of linear polyesters; the viscous flow and kinetic interaction in solution of ω-OH-undecanoic self-polyesters. W. O. Baker, C. S. Fuller and J. H. Heiss, jr. bibliog Am Chem Soc J 63:3316-21 D '41

UNDERCOOLING

Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. A. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

Method of minimizing supercooling and its application in the determination of freezing points from dielectric constant measurements. T. M. Shaw. diag R Sci Instr 13:2-5 Ja '42

UNDERGROUND construction

Aircraft factories in Britain in old stone quarries. Science 95:sup10 Ap 17 '42

Dampness in underground air raid shelters; abstract. F. S. Smith. Eng N 128:422 Mr 12 '42

Four-story underground parking space in downtown San Francisco. il diags Eng N 127:714-16 N 20 '41

Humidity control in underground bombproof spaces. E. Ledoux. il Heating-Piping 14:6-8, 364-6 Ja, Je '42

Old mine converted into aircraft plant; British underground factory. il Eng N 128:796 My 7 '42

Parking space four stories down; garage under San Francisco's Union square. il Eng N 129:520-1 O 15 '42

Swedish underground factory. Engineer 173:307 Ap 10 '42

Underground aircraft factories. il Engineering 153:216 Mr 13 '42; Same abr. Mech Eng 64:484 Je '42

Underground factories. il Engineer 173:211-12, 230-2 Mr 6-13 '42

Underground factories; lighting and air conditioning. il Elec R (Lond) 130:333 Mr 13 '42

Underground factory; British aircraft plant located in chalk mine. il Aviation 41:76+ My '42

See also

Concrete construction, Underground

Subways—Construction

UNDERGROUND structures

Concrete beehive for munitions storage. F. R. MacLeay. il diags Eng N 128:498-500 Mr 26 '42

See also

Pipe lines

Subways

Tunnels and tunneling

UNDERPASSES. See Subways (streets)

UNDERTAKERS' buildings. See Mortuary chapels

UNDERWEAR

All-America package competition; award to the Atlas underwear co. il Mod Packaging 15:194-5+ Ap '42

Cold process weighting of bleached cotton underwear and similar fabrics; example of woolen knit goods. Textile Col 63:699-700 D '41

Lingerie defrilled; industry apparently is unruffled. Business Week p56 My 16 '42

See also

Hosiery

UNDERWOOD, Frederick D. 1849-1942

Frederick D. Underwood and his times. Comm & Fin Chr 155:850-3 F 26 '42

UNDERWOOD, William E. 1860-1942

Sketch. East Underw 43:29+ Mr 6 '42

UNDERWOOD Elliott Fisher company

Leading office appliance concern. H. Lawrence. Barron's 22:20 O 19 '42

Wage increase; settlement of other issues. Comm & Fin Chr 156:1511 O 26 '42

UNDERWRITERS' laboratories

Annual meeting. East Underw 43:33 Ap 17 '42; Nat Underw 46:8 Ap 16 '42; Weekly Underw 146:878+ Ap 18 '42

Engineers face automotive hazards. S. James. il Weekly Underw 146:779-81 Ap 4 '42

Requirements of Underwriters' laboratories; emergency specifications. C. R. Welborn. Weekly Underw 146:652-3 Mr 21 '42

They practice what they preach. il Safety Eng 84:41-3 Jl '42

UNEARNED premium policies. See Insurance—Unearned premium policies

UNEMPLOYMENT

America's future pattern. E. S. Cornell, jr. 214p $1.50 Edward S. Cornell, jr. 17 Campbell lane, Larchmont, N.Y. '42

Door to economic freedom; new and revolutionary responsibility must be assumed by every individual. W. von Tresckow. Barron's 22:3 Jl 13 '42

Full employment. Economist 143:407-8, 438-40, 472-3 O 3-17 '42

Gone with the war; how our tax legislation forces post-war unemployment, or stateism. B. B. Smith. Trusts & Estates 73:481-4 N '41

Problem of priority unemployment. J. D. Brown. Ann Am Acad 224:69-74 N '42

Problems of readjustment in the postwar labor market. A. F. Hinrichs. Ann Am Acad 224:157-64 N '42

Significance of employment patterns in households for labor market analysis. G. L. Palmer. 21p Industrial research dept, Wharton school of finance and commerce, Univ. of Pennsylvania, 3440 Walnut st, Philadelphia '42

Three aspects of labor dynamics. V. S. Voitinskii. 249p $2.50 Committee on social security, Social science research council, Washington, D.C. '42

See also

Insurance, Unemployment

Machinery in industry

Relief measures

Certified aid; defense awards to alleviate priorities disemployment. Business Week p28+ D 6 '41

Full employment: the means; stimulating private investment. Economist 143:438-40 O 10 '42

Labor problems from defense priorities. R. R. R. Brooks. Trusts & Estates 73:494-6 N '41

More consumers and jobs after the war. J. K. Baillie. Trusts & Estates 73:603-4 D '41

Placing the displaced worker; government and industry sponsoring program to find jobs for priority casualties. A. Fancher. Barron's 22:18 Jl 27 '42

Separation wage fund; Westinghouse electric and manufacturing co. Trusts & Estates 74:121 F '42

Social security for priorities unemployment. A. Epstein. Trusts & Estates 74:251-2 Mr '42

White-collar aid; General Motors program to locate new jobs for employees laid off in war conversion. Business Week p78-80 Mr 21 '42

See also

Employment agencies

Insurance, Unemployment

Public works

UNEMPLOYMENT—Relief measures—*Cont.*

Federal relief

President requests $300,000,000 to aid conversion jobless. Comm & Fin Chr 155:572 F 5 '42

See also

Civilian conservation corps
Food stamp plan
National youth administration
Public works—Federal loans and grants
United States—Employment service
Work projects administration

Public works

See also

Civilian conservation corps
Work projects administration

Statistics

Unemployment-compensation operations. Monthly Labor R 54:104-8, 441-5, 667-72, 953-7; 55:478-9 Ja-Ap, S '42

Unemployment halved in 1941, says Conference board. Comm & Fin Chr 155:773 F 19 '42

Canada

Employment situation in Canada, October 1941; unemployment statistics, by provinces. Monthly Labor R 54:635-6 Mr '42

Detroit

Anger in Detroit; C.I.O. blames industry and Washington for disemployment. Business Week p58-9 Ja 17 '42

Great Britain

Britain's idle near vanishing point after 28 war months; chart. Business Week p37 Ja 17 '42

Impact of war on long-term unemployment in Great Britain. bibliog Int Labour R 45:44-63, 297-301 Ja, Mr '42

Still over 100,000. Economist 143:88 Jl 18 '42

Sweden

Swedish unemployment policy, 1914 to 1940. H. Clark. 179p bibliog(p173-5) $3.25 Am. council on public affairs, Washington, D.C. '41

United States

President proclaims national employment week. Comm & Fin Chr 155:1630 Ap 23 '42

Priorities disemployment on the increase. Survey of Cur Business 22:4 Ja '42

Three aspects of labor dynamics. W. S. Woytinsky. 249p $2.50 Committee on social security, Social science research council, Washington, D.C. '42

See also

Insurance, Unemployment—United States
Unemployment—Relief measures

Venezuela

Measures to relieve unemployment in Venezuela, 1942. F. P. Corrigan. Monthly Labor R 55:741-2 O '42

Unemployment in Venezuela. Int Labour R 46:485-6 O '42

UNEMPLOYMENT benefit plans

War and merchant seamen; unemployment indemnities and compensation for loss of effects in the event of loss of the ship; detention and family allowances. Int Labour R 45:493-511 My '42

UNEMPLOYMENT insurance. See Insurance, Unemployment

UNEMPLOYMENT surveys

On the sample survey of unemployment. L. R. Frankel and J. S. Stock. Am Statis Assn J 37:77-80 Mr '42

UNFAIR competition. See Competition, Unfair

UNFAIR practices acts. See Price cutting

UNFILLED orders. See Orders, Unfilled

UNICELLULAR organisms

Transition from the individual to the social level. H. S. Jennings. bibliog Science 94:447-53 N 14 '41

UNIFORMS

Civilians' uniforms; designs for OCD women. il Business Week p22+ Ja 3 '42

Dyeing uniform cloth. P. LeBrun. il Textile World 92:112 S '42

Girls wear uniforms in knitting mill; Ware knitters, inc. A. H. Wesslen. il Textile World 92:102-3 Mr '42

Safety clothing for women. il Factory Management 100:64-5 Mr '42

What the well-dressed American woman will wear in line of war-time duty; Traphagen work and utility garments. il Rayon 23:143 Mr '42

UNIFORMS, Military

Army times wear and tear to measure life of uniform. Textile Col 64:128 Mr '42

Army war show; Quartermaster corps exhibit of uniforms. il Textile World 92:52-3 Ag '42

Cloth, cotton; uniform, twill used for uniforms, U.S. army personnel. Textile Col 64:236+ My '42

Decking a Wave; how Marshall Field does it. il Business Week p48 O 31 '42

Fabrics for military purposes; twill and silesia uniform linings used by the army, navy and Marine corps. il Textile World 92:65 Jl '42

Fabrics for military purposes; WACCS winter uniforms made of covert cloth. il Textile World 92:76 O '42

How army is clad; operations of Philadelphia quartermaster depot. il Business Week p40+ O 31 '42

United States army uniforms; illustrations. Textile World 92:58-9 Je '42

UNION bag and paper corporation

Places $5,500,000 debentures privately; reported record sales and growth in 1941. Comm & Fin Chr 155:2015 My 25 '42

Securities disturbing investors. J. S. Williams. Mag of Wall St 71:70-1 O 31 '42

UNION carbide and carbon corporation

Annual report. Comm & Fin Chr 155:1319 Mr 30 '42

What the chemical companies are doing. Barron's 22:23 S 21 '42

UNION catalogs. See Catalogs, Union

UNION central life insurance company

Asks dismissal of suit. East Underw 43:9 My 29 '42

Mutualization action postponed. Nat Underw (Life ed) 46:11 My 8 '42

UNION electric company of Missouri

Bonds offered. Comm & Fin Chr 155:1420-1 Ap 6 '42

Laclede power & light company sells properties to Union electric company of Missouri. Comm & Fin Chr 155:1921 My 18 '42

North American co. calls off sale of Union Electric shares. Comm & Fin Chr 155:927 Mr 2 '42

Sale of Union Electric stock. O. Ely. Pub Util 29:300-2 F 26 '42

Underwriting group comprises 141 investment banking firms. Comm & Fin Chr 155:699 F 14 '42

UNION-management cooperation. See Employees' representation in management

UNION of American biological societies

Annual meeting of the council, Dallas, Dec. 29. Science 95:173-4 F 13 '42

UNION oil company of California

Debentures offered. Comm & Fin Chr 155:270-1 Ja 17 '42

UNION Pacific railroad

Annual report, 45th; statement of F. W. Charske. Comm & Fin Chr 155:1758-9 My 4 '42

Annual report, 45th, year ended December 31, 1941. Ry Age 112:877-9 My 2 '42; Same. Comm & Fin Chr 155:1698-9 Ap 30 '42

UNION potash and chemical company

International minerals and chemical corp. to merge; terms of exchange for stocks. Comm & Fin Chr 155:920 Mr 2 '42

International minerals and chemicals corporation merger consummated. Comm & Fin Chr 155:1513 Ap 13 '42

UNION premier food stores, inc. See Food fair stores, inc.

UNION tank car company
Stocks in strategic market position. il Mag of Wall St 69:707 Ap 4 '42

UNIT heaters. See Electric heaters; Gas heaters; Heaters; Steam heaters

UNIT processes
Introduction to diffusional operations in chemical engineering. H. F. Johnstone. bibliog il Chem & Met Eng 49:78-83 My '42
Proposed classification of the unit processes. C. A. Shillinglaw. bibliog il Food Ind 14: 40-3 Je '42
Symposium on unit processes; meeting of the American chemical society. Chem Age (Lond) 45:221-3 O 25 '41
Unit processes; sixth symposium. R. N. Shreve; D. F. Othmer and others. bibliog flow sheets il diags Ind & Eng Chem 34: 261-326 Mr '42

UNITED air lines
New liaison job; executive to take charge of relations with stockholders. Business Week p61 N 22 '41

UNITED air lines transport corporation
Consolidated income statement, 1939-1941. Comm & Fin Chr 155:1686 Ap 27 '42

UNITED aircraft corporation
Annual report. Comm & Fin Chr 155:1421 Ap 6 '42
Another look. il Mag of Wall St 71:36-7 O 17 '42
Plans $26,500,000 of new convertible preferred to prepare itself for post-war competition. Comm & Fin Chr 154:1385 D 6 '41
Preferred stock sold. Comm & Fin Chr 155: 308-9 Ja 20 '42
Stockholders authorize new stock issue. Comm & Fin Chr 155:92 Ja 6 '42
War capital need. Comm & Fin Chr 154:1497 D 13 '41
War forces new plans. S. Altschul. Aviation 41:153+ Ja '42

UNITED automobile workers of America (International union, United automobile, aircraft, and agricultural implement workers of America)
Auto unions push victory programs. Automotive & Aviation Ind 86:43+ My 1 '42
Bitter-end fight; U.A.W.'s drive to enroll aircraft workers of Thompson products. Business Week p64-5 F 21 '42
Bolt from U.A.W.? Business Week p84 O 31 '42
Coming back? A.F.L. segment tackles C.I.O. affiliate at Fisher Body tank plant. il(p54) Business Week p55 Ag 1 '42
C.I.O.'s publicity drive. Business Week p75 Ap 18 '42
Ford bargain ends; company opposes renewal; union wants additional concessions. Business Week p50+ Je 20 '42
G.M. hits back; public debate on Reuther plan and company's counterdemands on union. Business Week p70+ Ap 4 '42
How they bargained at Ford. Business Week p92-6 D 6 '41
Union's insurance; U.A.W., John Hancock Life devise policy to replace that canceled by Ford. Business Week p72-3 Mr 21 '42
UAW-CIO membership highest in history. Automotive & Aviation Ind 87:47+ Ag 15 '42
U.A.W. requests. Business Week p74-6 F 14 '42

UNITED benefit life insurance company
Office building; views, plans and construction outline. Arch Forum 75:365-70 N '41

UNITED carbon company
New building is formally opened. il Rubber Age 50:127 N '41
What the chemical companies are doing. Barron's 22:27 S 21 '42

UNITED corporation
Annual report. Comm & Fin Chr 155:831-2 F 24 '42
Contends SEC has no power to order dissolution. Comm & Fin Chr 156:1423 O 19 '42
Dissolution held necessary by SEC. Elec W 118:1109 O 3 '42
Speculative prospects in preference stock. L. C. Payne. Barron's 21:20 D 1 '41
To reduce stated value of shares. Comm & Fin Chr 155:1023 Mr 9 '42
To vote on reducing stated value of preferred stock. Comm & Fin Chr 155:1607-8 Ap 20 '42
United Corp. preference at 44% discount. O. Ely. Barron's 22:18 Ap 6 '42
Urges its voluntary plan be adopted; disputes SEC staff argument that it should be dissolved. Comm & Fin Chr 156:1158-9 S 28 '42

UNITED drug, inc.
Earnings, 1938-1941. Comm & Fin Chr 155: 1421 Ap 6 '42
United Drug outlook changing. R. B. Cole. Barron's 22:7 S 28 '42

UNITED dyewood corporation
Another look. Mag of Wall St 71:76-7 O 31 '42

UNITED engineering and foundry company
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 F 23 '42

UNITED engineering trustees, inc.
Annual meeting, Oct. 23. Elec Eng 61:56-7 Ja '42
Report for 1940-1941. Mech Eng 64:82-3 Ja '42

UNITED fruit company
Consolidated income account, 1938-1941. Comm & Fin Chr 155:2374-5 Je 22 '42
To aid in production of certain tropical crops. Comm & Fin Chr 156:519-20 Ag 10 '42
War news affects United Fruit stock. H. Lawrence. Barron's 22:20 Mr 9 '42

UNITED gas corporation
Brief description. O. Ely. Pub Util 30:107-9 Jl 16 '42
Extends financing plan. Comm & Fin Chr 155:608 F 7 '42

UNITED gas improvement company
Challenges orders by the SEC. Comm & Fin Chr 155:2375 Je 22 '42
Company charges SEC with flouting law; test of death sentence. Comm & Fin Chr 156: 1335 O 12 '42
Court test on U.G.I. death sentence opens. Elec W News ed 118:1187 O 10 '42
Plea for stay refused by SEC; company to fight to highest court order to sell interest in Public service of N.J. Comm & Fin Chr 156:1247 O 5 '42
SEC disputes UGI stand on dismemberment. Comm & Fin Chr 156:1159 S 28 '42
SEC integration of holding company systems. R. Blum. J Land & Pub Util Econ 17:423-39 N '41
U.G.I. says Public service corp. of N.J. is an investment. Elec W 118:1282 O 17 '42

UNITED glass bottle manufacturers, limited
Statement by the chairman. M. J. Bonn. Economist 142:483 Ap 4 '42

UNITED light and power company
Directed to pay long-term debt in dissolution step. Comm & Fin Chr 155:927-8 Mr 2 '42
Dissolution plan approved by SEC; nine subsidiaries to unite to form operating unit of Iowa-Illinois gas & electric co. Comm & Fin Chr 155:510-11 Ja 31 '42
Files for dissolution. Comm & Fin Chr 156: 263 Jl 20 '42
Hearing on integration plan. Comm & Fin Chr 154:1385 D 6 '41
Integration program furthered by SEC; consolidation of nine subsidiaries approved. Comm & Fin Chr 155:161 Ja 10 '42
Makes integration move. Comm & Fin Chr 155:1223 Mr 23 '42
Plan approved by SEC. Pub Util 29:236-7 F 12 '42
President discusses dissolution plan. Comm & Fin Chr 156:349-50 Jl 27 '42
Sales of three utilities. Comm & Fin Chr 156:439 Ag 3 '42
SEC grants year's extension. Comm & Fin Chr 156:703 Ag 24 '42
To retire debentures, etc. Comm & Fin Chr 155:1023-4 Mr 9 '42
United Light & Power in dissolution. O. Ely. Barron's 22:7 F 2 '42

UNITED light and railways company
Earnings, 1940 and 1941. Comm & Fin Chr 156:519 Ag 10 '42
Holding company bond affords full return. W. U. Amos. Barron's 22:19 Ag 3 '42

UNITED merchants and manufacturers, inc.
Special situations for income and appreciation. H. F. Travis. Mag of Wall St 71:31+ O 17 '42

UNITED mine workers of America
Milk miners; Lewis and his U.M.W. open drive to organize dairy farmers of Northeast. Business Week p70-1 Ap 18 '42
Miners quarrel with the CIO grows; organization changes approved. Coal Age 47:42 Jl '42
No closed shop by government decree, President Roosevelt declares. Steel 109:21-2 N 17 '41
Sever CIO connections; move to admit women workers to union. Comm & Fin Chr 156:1444 O 22 '42

UNITED nations, 1942-
Canada and the United nations; report of the proceedings of the 5th annual conference of the Canadian institute of international affairs, Toronto, May 23-24, 1942. W. E. C. Harrison and A. N. Reid. 62p pa 50c Ryerson press '42
United efforts for victory. M. Litvinoff. Ann Am Acad 222:21-5 Jl '42
United nations. M. Straight. Ann Am Acad 222:32-7 Jl '42
United nations on the way; principles and policies. H. Bonnet. 170p pa 50c World citizens assn, 84 E. Randolph st, Chicago '42
United nations; what they are, what they may become. H. Bonnet. 100p pa 25c World citizens assn, 84 E. Randolph st, Chicago '42
Victory, and after. E. Browder. 256p $2 International publishers, 381 4th av, New York '42

UNITED nations, Declaration of
26 nations sign pact pledging resources and barring separate armistice or peace. Comm & Fin Chr 155:144 Ja 8 '42

UNITED newspaper advertising, inc.
From radio's book; selling blocks of space over newspaper networks. Business Week p48 Ja 10 '42

UNITED office and professional workers union
U.O.P.W. wins. Business Week p61 My 30 '42
U.O.P.W.'s gain. Business Week p116 S 12 '42

UNITED parcel service
United delivers the goods. Fortune 25:22+ Je '42

UNITED public service corporation
Liquidating dividend. Comm & Fin Chr 155:542 F 3 '42

UNITED rubber workers of America
Production snag; Goodrich plant committee breaks up. Business Week p70 Je 20 '42

UNITED securities, limited
Scheme of arrangement proposed by company. Comm & Fin Chr 156:263-4 Jl 20 '42

UNITED service organizations for national defense
FDR praises USO for vital contribution. Comm & Fin Chr 155:1633 Ap 23 '42
U.S.O. centers built on fast schedule. il diag plans Eng N 128:554-6 Ap 9 '42

Buildings

USO buildings. il plans Arch Forum 77:89-92 Jl '42

UNITED services life insurance company
United Services ceases to write new business. Nat Underw (Life ed) 46:12 Ap 17 '42
United Services Life sues its former president. Nat Underw (Life ed) 46:10 My 15 '42

UNITED shoe machinery corporation
Prospects. Barron's 22:6 F 16 '42

UNITED STATES
America for me. M. M. McBride. 102p $1 Macmillan '41
American reveille; the United States at war. W. Morehouse. 263p $2.50 Putnam '42
American struggle; we cannot longer defend freedom on a basis of if, and, and but. Fortune 25:34-5 Ja '42
Land and water areas of the United States. C. C. Colby. Science 96:112-13 Jl 31 '42

See also

Hydroelectric plants—United States	Railroads—United States
Mines and mineral resources—United States	Roads—United States
	Water supply—United States

Accounting

See Government accounting

Accounting office

See United States—General accounting office

Agricultural marketing administration

Agriculture department pork-product program. For Comm W 7:23 My 2 '42
AMA has regional offices in seven cities. Oil Paint & Drug Rep 142:7+ S 7 '42
Brief summaries of AMS standards. Food Ind 13:43-4+ Ag; 51-2 S; 59-61+ O; 50-1 N '41; 14:66-8 Jl '42
Filling up the cans; SMA aiding processors. Business Week p53-4 Ja 10 '42
How the government buys foods. H. C. Albin. il Food Ind 14:64-8 O '42
Large lend-lease shipments; A.M.A. purchases of foods to improve diets of peoples of the United Nations, of school children at home, and for other purposes, year ended March 15, 1942. For Comm W 7:20 Ap 18 '42
Merge farm marketing. Comm & Fin Chr 155:1167 Mr 19 '42
No. 1 food buyer, SMA lease-lend food purchases. Business Week p24+ N 29 '41
Purchases for lend-lease and related purposes. For Comm W 7:21 Ap 25 '42

Agriculture, Department of

Agricultural dept. is reorganized. Comm & Fin Chr 154:1677 D 27 '41
Congress votes July funds for Agriculture dept.; President signs stop-gap legislation. Comm & Fin Chr 156:181, 189 Jl 16 '42
House passes agricultural appropriation bill after making deductions of $56,000,000. Comm & Fin Chr 155:1251 Mr 26 '42
President merges farm agencies. Comm & Fin Chr 155:955 Mr 5 '42
USDA revamped by Wickard. Food Ind 14:76 S '42

Regional research laboratories

See Agricultural laboratories

Air service

He's in the Air corps now. F. P. Graham and H. W. Kulick. 218p $2.50 Robert M. McBride & co, 116 E. 16th st, New York '42
Open letter to Congress; need for air supremacy. F. A. Tichenor. il Aero Digest 40:60, 62+ F '42
Planes to rescue; army and navy transport commands bring back critical materials. Business Week p27-8 O 31 '42
Thunder aloft; U.S. air power today, tomorrow. K. Sagendorph. 300p $2.50 Reilly and Lee co, Chicago '42
What the citizen should know about the air forces. H. E. Hartney. 226p $2.50 Norton '42

Air service, Army

Air corps seeks to bolster critical materials situation. D. R. James. il Iron Age 150:105-6+ O 22 '42
Aircraft radio labs. responsible for research, development, engineering, and inspection for equipment required by Army air corps. J. H. Gardner. il Radio N 27:8-9+ F '42
Airlines training army mechanics. il Aviation 41:216 S '42
Army Air corps' design development unit. il Steel 110:50+ Mr 16 '42
Army air forces. H. H. Arnold. map S A E J 50:sup23-5+ N '42

UNITED STATES—Air service, Army—*Cont.*

AAF air transport command is organized; air force equals ground force on staff. Aviation 41:223 Ag '42

Army air forces are at work. F. Bradley. Aero Digest 40:106-7 Ap '42

Army air forces are expanded to 84 groups, 400,000 personnel, probably 50,000 planes. il Aviation 40:142 D '41

Army flyer. H. H. Arnold and I. C. Eaker. 299p $2.50 Harper '42

Artillery plans own air force. Civil Aero J 3:29+ F 1 '42

Bail-out ration for army flyers and aerial gunners, pocket-size. il Mod Packaging 16:66+ O '42

C.A.A. helps army get 2,000 flying instructors. Civil Aero J 3:113+ My 15 '42

Converting Miami; Army Air corps takes over five hotels in resort area. il Business Week p26 Mr 7 '42

Development of our army's glider forces. D. H. Schlatter. il Aero Digest 41:101-2, 105 S '42

Flying squadrons. S. P. Johnston. Tech R 44: 77-8+ D '41

Flying squadrons; a graphic history of the U.S. army air forces. S. P. Johnston. 284p $3.50 Duell, Sloan & Pearce, New York '42

Fourth air force in California. J. E. Fickel. il Aero Digest 40:78+ Ja '42

Interceptor command, Mitchel field. E. E. Halmos, jr. il Aviation 41:132, 135+ Ja '42

Maintenance on the move; Air corps has new equipment and methods. il Aviation 40: 62-3+ D '41

Motion picture camera in the army air forces. G. J. Newhard. Soc Motion Picture Eng J 38:510-14 Je '42

Organization of the AAF. B. Stubblefield. Aviation 41:183 My '42

Radio training for the air forces; Scott Field, radio university of the air. J. R. Johnston. il Radio N 28:6-9+ Jl '42

Technical training command's maintenance program. il Aviation 41:236+ Jl '42

Wanted—2000 men as flight instructors; with directory of CAA district representatives. Aero Digest 40:256 My '42

Air service, Navy

Blimps return to the war; naval lighter-than-air craft on submarine patrol. R. G. Picinich, jr. il Aviation 41:207+ O '42

California's role in the growth of naval aviation. C. A. Blakely. Aero Digest 40:76+ Ja '42

Corpus Christi; Navy air station; illustrations. Aviation 40:66-7 D '41

Growth of fire power in navy planes. J. B. Hancock and E. Burton. il Aero Digest 40:70-1+ F; 64-5+ Mr '42

Lighter-than-air ships for defense. R. G. Picinich, jr. il Barron's 22:3+ Mr 30 '42

Naval aviation at war. J. H. Towers. S A E J 50:sup26-8+ N '42

Navy builds concrete hangars at San Diego; thin-shell barrel-type arch structures. il Eng N 127:786-8 D 4 '41

Navy wings. H. B. Miller. rev ed 364p $3 Dodd '42

Our Navy's air arm. J. L. H. Peck. il Sci Am 166:121-3 Mr '42

Training naval aviation technicians. F. Tupper, jr. il Aero Digest 41:88+ S '42

Wide-span hangars for the U.S. navy; reinforced concrete structures of unique design. A. Tedesko. il diags Civil Eng 11:697-700 D '41

See also
Naval air stations

Appropriations and expenditures

Federal expenditures, monthly, July 1933-Sept. 1941. Survey of Cur Business 21:23-4 N '41

Federal finance, 1941. Survey of Cur Business 22:54-60 F '42

Keeping books on a war; chart showing receipts, war expenditures, and all other expenditures, 1933-1943. Business Week p22 Jl 11 '42

War appropriations total $205 billions. Comm & Fin Chr 156:626 Ag 20 '42

War financing; military, naval and maritime commission appropriations. Fed Res Bul 28: 533-4 Je '42

Where our war dollar is going; chart. Barron's 21:11 D 29 '41

See also
Budget—United States
Government expenditures
Government loans and grants
Public works—Federal loans and grants
Railroads—Federal loans

Army

Army guide for women. M. M. Diits. 214p $2.50 Longmans '42

Army life. E. J. Kahn, jr. 152p $1.75 Simon & Schuster '42

Army means business. H. Corey. 298p $2.75 Bobbs '42

Army personnel classification system. W. V. Bingham. bibliog Ann Am Acad 220:18-28 Mr '42

Business and the maneuvers in Carolinas. il map Business Week p22, 24, 26 N 15 '41

History of the United States army. W. A. Ganoe. rev ed 640p bibliog(p557-93) $5 Appleton-Century '42

How good is the army? il Fortune 24:67-9+ D '41

How strong is America? N. Barber. 144p 6s G. G. Harrap & co, Toronto '42

How to get along in the army. 168p $1.50 Appleton-Century '42

In the army now. G. Gach. 282p $2 Dodd '42

New army commands for ground, air, supply. Comm & Fin Chr 155:965 Mr 5 '42

New soldier's handbook. 389p 50c Infantry journal, 1115 17th st, NW, Washington, D.C. '41

Our new army. M. Andrews. 225p $1.50 Little '42

President proclaims April 6 as Army day. Comm & Fin Chr 155:1248 Mr 26 '42

Radio in the army. il Radio N 27:15-42+ Ja '42

Radio in the field artillery. il Radio N 27:6-8+ Mr '42

Recreation, welfare, and morale of the American soldier. F. H. Osborn. Ann Am Acad 220:50-6 Mr '42

Uncle Sam's fighting men. R. K. Burns and L. M. Spencer. 56p bibliog(p57) pa 60c Science research associates, 1700 Prairie av, Chicago '42

What the citizen should know about the army. H. S. Ford. 2d rev ed 253p $2.50 Norton '42

What the Negro thinks of the army. W. White. Ann Am Acad 223:67-71 S '42

Your army; essential information for all men of draft age and their families. 32p pa 15c Commodity research bur, 82 Beaver st, New York '42

See also
Post exchanges
United service organizations for national defense
United States—Air service, Army

Commissariat

American soldiers' rations. Am Gas J 157:48 O '42

Army feeding will affect foods of the future. R. A. Isker. il Food Ind 14:41-2 N '42

Army food and fighting efficiency. P. P. Logan. il Food Ind 14:33-6 My '42

Army needs 13 new foods. J. H. White. il Food Ind 14:38-9 Mr '42; Same. Mod Packaging 15:48-9 Mr '42

Army standards for dehydrated foods. Food Ind 14:54+ N '42

Balanced meals for soldiers. Nat Safety N 45:64 F '42

Commercial gas equipment in military establishments. J. W. McNair. Gas Age 89:41-3+ My 7 '42

Food for fighters; army's new procurement methods. il Business Week p19-20+ D 27 '41

General Gas helps mold an army; gas cooking for military camps. il Gas Age 90:43-6+ Jl 16 '42

UNITED STATES — Army — Commissariat — *Continued*

Military ration container problems. R. R. Melson. Paper Tr J 115:36-8 O 29 '42
New army rations; emergency kits developed by QMC. Business Week p29-31 Jl 11 '42
Quartermaster specialists test substitute insulation for use in field. Refrig Eng 44: 272+ O '42

Education

Plumbing and heating in the army; Camp Lee (Va.) quartermaster replacement training center plumbing school. il Dom Eng 160:73+ O '42
Visual aids and training in the United States army. W. Foley. J Chem Educ 19:137 Mr '42

Engineer corps

Army becomes world's biggest builder. Arch Forum 76:79 F '42
Builders for the army. D. Wharton. il Sci Am 165:311-14 D '41
Civil engineer in modern war. E. Reybold. Civil Eng 12:125-6 Mr '42; Abstract. Eng N 128:215 F 5 '42
Concerning commissions; how to find out if and where you fit. J. M. Dickey. Arch Rec 91:58 Je '42
Corps of engineers create new divisions. charts Eng N 128:918-19 Je 4 '42
Engineering corps and the college. R. C. Crawford. J Eng Educ 33:20-6; Discussion. 44-5 S '42
Engineers in the army. G. F. Lewis. il Eng N 128:846-8 My 21 '42
Making your service available to the government; procedure for civil engineers. Civil Eng 12:111-12 F '42
Procedure for men seeking refrigeration service in U.S. Army engineers. Refrig Eng 44: 309 N '42
QMC construction is absorbed by U.S.E.D. Eng N 127:848 D 11 '41
Reorganization of army work speeded under U.S. engineers. Eng N 128:1 Ja 1 '42
Simplify procedure on major army engineering contracts. Eng N 128:387 Mr 12 '42
This is an engineer's war. E. Reybold. Civil Eng 12:293-4 Je '42
U.S. Corps of engineers in peace and war; script of a radio program. Civil Eng 12: 583-4 O '42
What the citizen should know about the army engineers. P. W. Thompson. 210p $2.50 Norton '42

Enlisted reserve corps

Army enlisted reserve corps; text of official statement of Secretary of war. J Eng Educ 33:95-6 O '42
Military personnel and the colleges. C. E. Hixon. J Eng Educ 33:27-32; Discussion 45-7 S '42

Equipment and supplies

Army develops methods of conserving strategic raw materials. Heating-Piping 14: 287-8 My '42
Army matériel inspection. R. W. Case. Mech Eng 63:278-80 Ap '41; Discussion. 63:919 D '41
Army-navy aeronautical standardization. D. G. Lingle and G. A. Seitz. diag S A E J 50:sup 32-3, 66-80 N '42
Army tells manufacturers how to get that government order. Sales Management 51: 36, 38 O 1 '42
Army to use more substitutes for critical construction materials. Steel 111:34 Ag 24 '42
Ceramics with the armed forces. Cer Ind 38: 44-5+ Ap '42
How standards are used in army procurement. B. A. Falk. il Ind Stand 13:158-9 Je '42
If you want to sell the army, paste these facts in your hat. R. McDaniel. Sales Management 50:44-5 F 1 '42
Mechanized might; the story of mechanized warfare. P. C. Raborg. 284p $2.50 McGraw-Hill '42
Mobile optical shop for overseas service. il Comp Air M 47:6799 Jl '42; Nat Safety N 46:36+ Jl '42
Munitions board lists prohibited items for army, navy construction. Steel 110:60-1 My 11 '42
New army adopts new buying methods. H. B. Hester. il Adv & Sell 34:38, 40 D '41
Some typical conversion case histories; kitchen utensils for the services. Metals & Alloys 15:768-9 My '42
Trucks and tanks kept rolling; army's new motor repair base; heating and ventilating system. il Heat & Ven 39:19-21 Ag '42
WPB and Army supply set-ups being revised anew for greater efficiency. E. Blair. Barron's 22:4 Je 29 '42
War work, you can do it, too; 9,000 different articles, used by our armed forces, have either army or navy specifications and directions for packing. Mod Packaging 15: 49+ My '42
Where, what, and how the army buys, a directory of its purchasing agencies. Business Week p30-1 Je 27 '42

See also

Helmets
Motor trucks, Military
United States—Army—Ordnance and ordnance stores
United States—Army—Services of supply
United States—Quartermaster corps

Examinations

Practice for the army tests. 121p bibliog(p121) pa $1.50 Arco pub. co, 480 Lexington av, New York '42

Expeditionary force

Roosevelt vows AEF Nation's full support. Comm & Fin Chr 155:1451 Ap 9 '42

Insignia

Guide to U.S. army insignia and decorations. G. A. J. Petersen. 62p 25c Whitman pub. co, Racine, Wis. '41
Insignia of the services. P. Brown. $1.50 Scribner '42

Medical administration corps

Medical administration corps of the army; commissions to medical students. Science 95:269 Mr 13 '42

Medical and sanitary affairs

Jaundice and yellow fever vaccinations in the army. J. Stafford. Science 96:sup12+ Ag 7 '42
Sanitary corps' duties; abstract. W. A. Hardenbergh. Water Works & Sewerage 89: 317 Jl '42
Sulfa ration; each U.S. soldier going into combat will carry tablets of antibacterial drug. Business Week p20+ Ap 4 '42
Venereal disease control in defense. E. Ness. Ann Am Acad 220:89-93 Mr '42

Morale

American soldier. il Fortune 24:154+ D '41

Negro troops

Negro in the army today. W. H. Hastie. Ann Am Acad 223:55-9 S '42

Officers

Concerning commissions; how to find out if and where you fit. J. M. Dickey. Arch Rec 91:58 Je '42
Personal finance and management for the army officer. C. R. Hutchison. 185p $1.50 Appleton-Century '42

Ordnance and ordnance stores

Designing for defense. G. M. Barnes. il Mech Eng 64:17-19 Ja '42
Development of standards for army ordnance finishes. M. R. Norton. bibliog il Mech Eng 64:703-17 O '42
Ordnance department and its conservation control program. Steel 111:160-1 O 5 '42
Ordnance department plastic developments. E. T. McBride. Chem & Eng N 20:849-50 Jl 10 '42
Ordnance in my time. C. M. Wesson. Mech Eng 64:435-8 Je '42

UNITED STATES—Army—Ordnance and ordnance stores—*Continued*

Ordnance says; Army buying outfit is controlling and changing methods of plant operation. Business Week p66+ Ag 15 '42

Parachute troops

Training paratroops. S. R. Winters. il Aero Digest 40:95-6, 99+ Je '42

Pay, allowances, etc.

Allowances for servicemen's dependents, 1942. Monthly Labor R 55:226-8 Ag '42

Conferees vote $50 army-navy base pay. Comm & Fin Chr 155:2204 Je 11 '42

Financial protection for war families; compensation, benefits and civil relief plans for the armed forces and their dependents. Trusts & Estates 74:341-4 Ap '42

House raises pay of armed forces. Comm & Fin Chr 155:1941 My 21 '42

President signs Army-Navy pay bill. Comm & Fin Chr 156:22 Jl 2 '42

Senate votes higher pay for men in armed forces. Comm & Fin Chr 155:1452 Ap 9 '42

United States pension and compensation payments. H. Malisoff. Int Labour R 46:569-77 N '42

Post exchanges

See Post exchanges

Public relations bureaus

Army and navy will help with copy and picture themes. Ptr Ink 198:104-6 F 6 '42

Recruiting and enlistment

Harvester's own; tank maintenance battalion of 859 men recruited entirely from company's rolls. Business Week p90 Jl 25 '42

Services of supply

S.O.S.; the army's vast power over American economy centered in Brehon Somervell; should he also get the ships and raw materials? il Fortune 26:66-71, 164, 166 S '42

What SOS expects of industry. B. B. Somervell. il Factory Management 100:74-7 S '42

Signal corps

Calling all planes, tanks, etc.; vital importance to the army of signals and methods of communication of information in modern warfare. H. Corey. Pub Util 29:803-10 Je 18 '42

Civilian radio army; Signal corps training courses. A. Toombs. il Radio N 28:10-13+ Jl '42

Signal corps coordination branch. D. Olmstead. il Radio N 27:6-7+ Je '42

Signal corps maintenance; demand for radio mechanics. L. Winner. il Radio N 28:7-9 Ag '42

Signal corps radio. C. J. McIntyre. il Radio N 27:17-19+ Ja '42

Training centers; Signal corps school. G. L. Van Deusen. il Radio N 27:20-3+ Ja '42

Training film activities of the Signal corps. D. Olmstead. il For Comm W 5:6-7+ D 13 '41

Ski troops

Radio ski troops. S. R. Winters. il Radio N 27:22-4+ My '42

Working skis for U.S. troops. il Mod Plastics 19:50-1+ My '42

Specialist corps

Army specialist corps. W. O. Hotchkiss. Civil Eng 12:363-4 Jl '42

Army specialist corps. W. O. Hotchkiss. Mech Eng 64:615-17 Ag '42; Same. Elec Eng 61:440-2 Ag '42; Same. J Eng Educ 33:37-44 S '42; reprinted by Geological society of America Jl '42

Army specialists; new corps coming to life at last. Business Week p19 S 5 '42

Textile requirements

Appropriations for clothing and equipage second World war. Textile World 92:59 Mr '42

Army requirements for combed cotton cloth; abstract. E. B. Gregory. Textile World 92:75 O '42

Dyed cotton textile items for war use. O. W. Clark. Textile Col 64:138-46 Mr '42

Dyeing of army socks. S. M. Hamilton. Am Dyestuff Rep 30:706-7 D 22 '41

How army is clad; operations of Philadelphia quartermaster depot. il Business Week p40+ O 31 '42

Industry gets into wartime swing. B. Stubblefield. Textile World 92:60-1 My '42

New army orders are biggest yet. B. Stubblefield. Textile World 92:65-6+ Ap '42

No let-up seen in textile buying. B. Stubblefield. Textile World 92:57 Je '42

Problems of clothing the armed forces; abstract. A. Sommaripa. Rayon 23:144 Mr '42

Purchase and inspection of textiles for the army. V. Painter. Am Dyestuff Rep 31:2-3+ Ja 5 '42

QM's wool goods inspection plan. Textile World 92:65 Je '42

Sewing operations chart; basic types of machines for producing army and navy items. Textile World 92:92 S '42

Textile cooperation outstanding. E. B. Gregory. Textile World 92:62 Jl '42

Textiles in war. F. M. Steadman. Am Dyestuff Rep 31:527-9 O 26 '42

War's start found Q.M. prepared; with condensed summary of quartermaster purchases, Sept. 1, 1940, to Nov. 11, 1941. B. Stubblefield. Textile World 92:51-2 Ja '42

Why does the QM reject fabrics? H. P. Galloway. il Textile World 91:70-1 D '41

Why QM rejects cotton fabrics; weaving imperfections; other defects. il Textile World 92:55 Ja '42

See also

Army fabrics

Transportation corps

Improved haulage. Business Week p37-8 S 19 '42

New Army transport corps to speed traffic flow. S A E J 50:sup15+ S '42

New Transportation corps is established by the army. il Ry Age 113:260-2 Ag 15 '42

Uniforms

See Uniforms, Military

Women's army auxiliary corps

See Women's army auxiliary corps

Bibliography

Regional United States; a subject list. H. Logasa, comp. 71p $2 F. W. Faxon co, 83 Francis st, Boston '42

United States of America; an annotated reading list. 44p Bristol public libraries, Bristol, Eng. '41

Board of economic warfare

See Economic warfare, Board of

Board of investigation and research-transportation

See United States—Transportation investigation and research board

Boundaries

Northwest water boundary; report of the experts summoned by the German emperor as arbitrator under articles 34-42 of the Treaty of Washington of May 8, 1871, preliminary to his award dated Oct. 21, 1872. H. Miller, ed. (Pub. in the social sciences, v. 13, no. 1) 75p pa 50c Univ. of Washington, Seattle '42

Censorship, Office of

Censor over ads. Business Week p48+ Ja 24 '42

Executive order establishing Office of censorship; designation of authority to issue licenses and exemptions. Fed Res Bul 28:103-5 F '42

Voluntary censorship, how it works. K. L. Rice. Power Pl Eng 46:49 Mr '42

Census, Bureau of

Census by sample; Bureau's takeover of rival WPA Surveys section. Business Week p24+ S 12 '42

UNITED STATES—Census, Bureau of—*Cont.*

Census economizing. Comm & Fin Chr 155:778 F 19 '42

Civil aeronautics administration

See Civil aeronautics administration

Civilian conservation corps

See Civilian conservation corps

Civilian defense, Office of

Advisory board on sanitary and public health engineering to the Medical division of the Office of civilian defense. Science 94:602 D 26 '41

Appointments. Science 95:269-70 Mr 13 '42

Congress restricts OCD in use of funds. Comm & Fin Chr 155:953 Mr 5 '42

President signs bill for civil raid defense. Comm & Fin Chr 155:671 F 12 '42

Civilization

American idea. E. T. Adams and others. 278p bibliog(p267-70) $2.50 Harper '42

American society and the changing world. C. H. Pegg and others. 601p $3.50 Crofts '42

American way of life; our institutional patterns and social problems. H. E. Barnes and O. M. Ruedi. 802p bibliog(p761-87) $5 Prentice-Hall '42

And keep your powder dry; an anthropologist looks at America. M. Mead. 274p bibliog(p265-74) $2.50 Morrow '42

Foundations of American civilization; a history of colonial America. M. Savelle. 773p $5; text ed $3.90 Holt '42

Roots of American culture, and other essays. C. Rourke. 305p $3 Harcourt '42

Story of everyday things. A. Train, jr. 428p bibliog(p392-408) $3.50 Harper '41

There must be a new song. R. W. Brown. 143p $1.75 Harvard univ. press '42

Wind blew from the East; a study in the orientation of American culture. F. Nuhn. 300p $3 Harper '42

Coast and geodetic survey

Appointment of Captain N. H. Heck as assistant to the director on scientific and technical matters. Science 95:270 Mr 13 '42

Signal lamps for night surveying. D. L. Parkhurst. il diags Eng N 128:184 Ja 29 '42

Coast guard

Coast guard under Navy. Comm & Fin Chr 154:1233 N 27 '41

Diesel school enlists for the duration. il Diesel Power 20:658-9 Ag '42

How Coast guard is helping to prevent port fires. R. R. Waesche. East Underw 43:33 My 29 '42

President transfers maritime functions. Comm & Fin Chr 155:951 Mr 5 '42

Radio in the Coast guard. J. F. Farley. il Radio N 27:43-8+ Ja '42

Radio training in the Coast guard. R. Donohue. il Radio N 27:25-7+ My '42

Colonies

See United States—Insular possessions

Commerce

Balance of international payments of the United States in 1940. H. B. Lary and P. D. Dickens. U S Bur For & Dom Com, Economic Ser 17:1-93; pa 20c Supt. of doc. '41

Colonial America; a financial experiment. R. A. Foulke. il Dun's R 50:13-18, 42-4 Mr '42

Effect of the war on our foreign trade. Bankers M 143:538-9 D '41

Evolution of financing institutions from 1841. R. A. Foulke. il Dun's R 50:13-17+ Je '42

Financial institutions, 1776-1841. R. A. Foulke. il Dun's R 50:18-22+ Ap '42

Foreign trade in 1941 reached record volume. For Comm W 6:13 Mr 14 '42

Import trade balance with Latin America for 1941 reverses trend. For Comm W 6:40 Mr 28 '42

Indexes of the terms of trade between areas in the United States. W. C. Waite. R Econ Statis 24:22-30 F '42

Merchandise exports and imports, monthly, Jan. 1937-Oct. 1941. Fed Res Bul 28:63 Ja '42 [cont monthly]

Raw materials and inter-American solidarity. A. R. Upgren. For Comm W 8:6-7+ Jl 4 '42

Rise in export aid. Survey of Cur Business 21:8-10 D '41

U.S. foreign trade after two years of war. Dun's R 50:26-7 Ja '42

U.S. foreign trade during second war year. A. Maffry. il For Comm W 5:4-5+ N 22 '41

U.S. foreign trade total higher for 1941. Comm & Fin Chr 155:1154 Mr 19 '42

U.S. trade trends at the outbreak of war. For Comm W 7:6-7+ My 9 '42

See also

Aeronautics, Commercial—United States
Automobile industry and trade—United States
Chemical industries—United States
Cotton trade—United States
Export trade
Imports
Interstate commerce
Interstate commerce commission
Merchant marine—United States
Paper industry and trade—United States
Rubber industry and trade—United States
Shipping—United States
Tariff—United States
Textile industry—United States
United States—Foreign and domestic commerce, Bureau of
United States—Industries and resources

Commerce, Department of

Business and government; cooperation vital to victory; address to Business advisory council. J. H. Jones. For Comm W 6:3, 26-7; Reply. R. R. Deupree. 27-8 F 7 '42

Commerce department services limited. Oil Paint & Drug Rep 142:3+ Ag 3 '42

Department of commerce goes to war. J. H. Jones. For Comm W 6:3-5+ Ja 10 '42

Self-help clinics; Department of commerce community plan answers some wartime problems. Business Week p38+ Jl 18 '42

Small business unit set up in Commerce department; Congressional hearings. Comm & Fin Chr 155:109 Ja 8 '42

Total war, American style. W. Chatfield-Taylor. For Comm W 6:6-7+ Mr 21 '42

Work; address to Chamber of commerce of the United States. J. H. Jones. For Comm W 7:8-9 My 9 '42

See also United States—Foreign and domestic commerce, Bureau of

Commercial policy

America tries geopolitics. Business Week p88 Jl 11 '42

Bargaining for Latin America. Business Week p30 Ja 24 '42

Foreign trading controlled, 1941. Oil Paint & Drug Rep 141:44 Ja 12 '42

Hemispheric trade. (Law and contemporary problems, v. 8, no. 4) p655-804 pa $1 School of law, Duke univ, Durham, N.C. '42

Import control; aid to victory. il For Comm W 8:12-13+ Jl 4 '42

Imports via RFC; subsidy plan. Business Week p34+ My 23 '42

Latin allocations. Business Week p34-5 Ja 24 '42

Telling Argentina; United States application of economic pressure. Business Week p37 Ap 4 '42

Trade policies of foreign countries during 1941; Latin America. H. Chalmers. For Comm W 6:8-9, 33-4 Ja 31 '42

U.S. blacklist extended to 1,800 in Europe. Comm & Fin Chr 155:663 F 12 '42

UNITED STATES—Commercial policy—*Cont.*

U.S. challenges Hitler's new world order. V. L. Horoth. il map Mag of Wall St 69:188-90+ N 29 '41

See also

Commercial treaties and agreements
Export trade—Regulation
Export trade—Taxation
Free harbors
Imports
Tariff—United States

Conciliation service

See United States—Labor, Department of—Conciliation service

Congress

Changes in Congress since 1912. Barron's 22:1 N 2 '42
Issue before Congress in fight on anti-inflation bill is authority of Congress itself. E. Blair. Barron's 22:4 S 28 '42
On the home front. C. Benedict. Mag of Wall St 70:369+ Jl 25 '42
Representative government gains fresh vitality as Congress accepts President's challenge. E. Blair. Barron's 22:4 S 14 '42
Supreme court in Bethlehem shipbuilding case rules that Congress can draft business. Comm & Fin Chr 155:745+ F 19 '42

House of representatives

Case against the 77th Congress; facts congressmen must explain in their 1942 campaigns for re-election. Fortune 25:72-5+ My '42
Method of Congressional apportionment under the law of 1941. E. V. Huntington. Science 95:477-8 My 8 '42
Untried method of federal reapportionment. W. F. Willcox. Science 95:501-3 My 15 '42

Constitutional history

Molding the Constitution. G. W. Pepper. Franklin Inst J 233:413-34 My '42

Cultural relations

Center of the problem; cultural relations are vital to victory. R. G. Caldwell. il Tech R 45:19-21+ N '42

Defense transportation, Office of

City operations; work of O.D.T. Division of local transport; abstracts. G. A. Richardson. Bus Transportation 21:453-5 O '42; Transit J 86:371-2 O '42
Complete control of tank cars assumed by Eastman's office. Oil & Gas J 41:43 My 14 '42
Coördination of transportation facilities. J. G. Scott. Pub Util 30:618-24 O 22 '42
Eastman appoints division heads. Ry Mech Eng 116:84-5 F '42
Eastman is getting organized. pors Ry Age 112:214-18 Ja 17 '42
Eastman speedup. Business Week p68-9 F 28 '42
Eastman's job. Business Week p54 My 2 '42
Executive order further defining the functions and duties of the Office of defense transportation. India Rubber W 106:270 Je '42
Freer deliveries. Business Week p48-9 Je 6 '42
Hollar gets defense transportation post; list of consultants. Comm & Fin Chr 155:1249 Mr 26 '42
House O.K.'s ODT's additional $5 million. Ry Age 113:619+ O 17 '42
How ODT traffic section will work. Ry Age 112:267-8 Ja 24 '42
How to stave off anti-trust suits. Ry Age 112:420+ F 21 '42
New agency formed to handle war transportation problems. Nat Pet N 33:13 D 31 '41
New division created to administer added authority over highway transportation. Roads & Sts 85:87 Je '42
Office of defense transportation created by President. Ry Age 111:1089-90 D 27 '41; Excerpts. Comm & Fin Chr 155:30 Ja 1 '42
ODT creates four additional regional offices. Comm & Fin Chr 156:1357 O 15 '42
ODT goes to town; requiring certificate of war necessity of all commercial vehicle operators. Business Week p18-19 S 19 '42
ODT issues war operating code. Transit J 86:184 My '42
ODT keeps train sheet on all vital railroad routes; system of port control. Ry Age 112:1243 Je 27 '42
ODT takes control of all U.S. trucks; with text of order. Nat Pet N 34:3, 8-9 S 9 '42
ODT tightens hold on motor vehicles. Ry Age 113:417-18 S 12 '42
ODT to limit use of rubber-borne carriers. Comm & Fin Chr 155:1860 My 14 '42
ODT was given plenty of power; abstract. J. G. Scott. Ry Age 113:349 Ag 29 '42
ODT's program for local transport. G. A. Richardson. il Transit J 86:305-8 S '42
ODT's transit set-up. pors Transit J 86:124-6 Ap '42
Transit's responsibility brings grave problems. J. B. Eastman. il Transit J 86:50-1 F '42
Transport advisory groups named by Eastman. Comm & Fin Chr 156:1268 O 8 '42
Transport czar scans the future; efficient transportation as lifeblood of war effort. S. Altschul. Barron's 22:4 F 23 '42
Truck-bus knot; certificate applications come in slowly. Business Week p20+ O 31 '42
Truck-pooling; ODT will be clearing plans for sharing freight and equipment. Business Week p24+ Jl 18 '42
War loads come first. Business Week p15-16 My 16 '42

Defenses

American industry in a war of machines. J. A. Krout, ed. 111p pa $2.50 Academy of political science, New York '42
Awake, America! warning call for action written 16 years ago especially for Aero Digest by Colonel William L. Mitchell. Aero Digest 40:58 F '42
Construction at outlying bases; living and working conditions in Newfoundland, Bermuda, Jamaica, Puerto Rico, Antigua, St Lucia, Trinidad, and British Guiana. E. Reybold. il Eng N 128:109-11 Ja 15 '42
Crank turners or basic thinkers; latter are needed now. W. Chevalier. Textile World 91:68-9 D '41
Defense agencies of the federal government; chart. Manuf Rec 110:47 N '41
Department of national defense, we need it; letter reprinted from the October 1928 issue of Aero digest. W. F. James. Aero Digest 40:59-60+ My '42
Economic problems of national defense, a symposium. G. A. Steiner, ed. 214p bibliog (p209-14) pa $1 Dept. of economics, Indiana univ, Bloomington '41
Engineer and defense construction. B. B. Somervell. il Civil Eng 12:3-6 Ja '42
FDR calls for longer hours; Civilian defense proclamation. Comm & Fin Chr 154:1235 N 27 '41
Impact of defense upon industrial capacity and investment. M. J. Meehan. Am Statis Assn J 37:22-33 Mr '42
Invention for defense. L. B. Lent. Mech Eng 64:20-2 Ja '42
National defense chart. Iron Age 149:66-7 Ja 1 '42
National defense council at Gloversville, N.Y. R. M. Colt. Am Water Works Assn J 33:1869-74 N '41
New defense facilities. J. D. Wilson. Survey of Cur Business 21:10-17+ N '41
Organization for national defense. W. Coy. Advanced Management 6:145-8 O-D '41
Power for defense. L. Olds and others. il maps Elec Eng 61:3-24 Ja '42
Report to the nation; the American preparation for war. 62p U.S. Office of facts and figures, Washington '42
School of the citizen soldier. R. A. Griffin, ed. 558p bibliog(p533-7) $3; civilian defense ed $2.40 Appleton-Century '42
Supply of metals for national defense. Z. Jeffries. il Metal Prog 40:747-51 N '41; Same. Science 95:443-6 My 1 '42
Traffic control and national defense. F. M. Kreml. W Soc E J 46:267-72 O '41

UNITED STATES—Defenses—*Continued*

⅔ for defense, ⅓ for civilians. W. Gates. il Mag of Wall St 69:123-5+ N 15 '41

U.S. and Mexico form joint defense board. Comm & Fin Chr 155:350 Ja 22 '42

Valor of ignorance. H. Lea. 343p $2.50 Harper '42

Victory center; Marshall Field and company, Chicago, exhibit of wartime activities. il Am Business 12:16-17 F '42

Victory first. H. J. Reilly. map Banking 35:10-12 S '42

War and defense subject headings. 17p pa 10c Ruth Miller, sec-treas, Financial group, Special lib. assn, Central Hanover bank and trust co, New York '41

Washington lineup for war; defense agencies. J. A. Rowan. Iron Age 149:64-5+ Ja 1 '42

Written English in defense. J. R. Gould. J Eng Educ 32:523-8 Mr '42

See also

Aeronautics, Military—United States
Armaments
Civilian defense
Industrial education—Defense workers
Industrial mobilization
Military buildings
Military service
Military training camps
Munition factories
Munitions
National defense research committee
Purchasing, Government
Requisitioning
Tanks, Military
United States—Air service
United States—Army
United States—Navy

Bibliography

List of bibliographies on questions relating to national defense. G. H. Fuller, comp. 21p U.S. Lib. of Congress, Division of bibliography, Washington '41

National defense; a contribution toward a bibliography of bibliographies. Bul of Bibliog (F. W. Faxon co, Boston) 17:118-22, 134-41, 157-60 S '41-My '42

National defense and neutrality; proclamations, executive orders, military orders and presidential administrative orders, regulations and letters, July 1, 1939 to July 1, 1941. 41 numb l Office of govt. reports, U.S. Information service, Washington '41

National defense sourcebook; no. 1-2, September-October, accumulated and revised to November 1, 1941. R. E. Lambert. 72p pa $1 Readers' reference and research bur, 300 W. Merrick road, Freeport, N.Y. '41

Official defense publications: supplement guide to state and federal publications. J. K. Wilcox. 135p pa $1 Bur. of public administration, Univ. of Calif, Berkeley '42

Official war publications; guide to state, federal, and Canadian publications. J. K. Wilcox. 212p pa $1.50 Bur. of public administration, Univ. of California, Berkeley '42

Reference list of national defense publications; a selection of pertinent bulletins and articles prepared by federal agencies actively engaged in the national defense program; revised to Oct. 1, 1941. 35p U.S. Information service, Washington '41

Selected bibliography of bibliographies on subjects related to national defense. C. P. Dunbar, comp. 29p Bur. of educational research, Louisiana state univ, Baton Rouge '42

Diplomatic and consular service

Diplomatic shifts made in Latin America. Comm & Fin Chr 155:963 Mr 5 '42

U.S. and Dutch ministers now rank as ambassadors. Comm & Fin Chr 155:1955 My 21 '42

U.S. and Norway raise envoys to ambassadors. Comm & Fin Chr 155:1950 My 21 '42

Economic conditions

America in transition. J. A. Kinneman and R. G. Browne. 581p $3.50 McGraw-Hill '42

Answer to pessimists; men confused in abnormal times. A. Thorp. Nat Underw (Life ed) 46:2+ Ag 14 '42

Democracy at work; living in American communities. E. B. Fincher, R. E. Fraser and W. G. Kimmel. 566p; The government of Pennsylvania. E. B. Fincher and E. A. Lissfelt. 37p $1.72 John C. Winston, Philadelphia '42

Economic consequences of German victory. J. A. Reilly. Bankers M 145:80-1 Jl '42

Economic review of 1941. Survey of Cur Business 22:3-62 F '42

Goals for America; a budget of our needs and resources. S. Chase. 134p $1 Twentieth century fund, 330 W. 42d st, New York '42

Higher income seen in 1943 with lower sales and intensified restriction of industry. A. W. Zelomek. Comm & Fin Chr 156:1092 S 24 '42

Imagineering, where do we go from here? new materials, techniques, and skills engineered to new and better products will make new jobs for V-day. E. L. Andrew. Ind Marketing 27:27-8+ Ag '42

Income and spending and saving of city families in wartime. A. C. Hanson and others. Monthly Labor R 55:419-34 S '42

Investigation of concentration of economic power; final report of executive secretary. 435p Temporary nat. econ. com, Washington; pa 55c Supt. of doc. '41

Labor in transition to a war economy. W. Bowden. Monthly Labor R 54:843-68 Ap '42

Outlook for private enterprise in America. S. H. Slichter. 23p Investment bankers assn. of Am, 33 S. Clark st, Chicago '42; Same. Dun's R 50:7-12, 32+ Ap '42; Same. Advanced Management 7:67-76 Ap-Je '42; Abstract. Trusts & Estates 73:598-600 D '41

Production for peace; review of The road we are traveling: 1914-1942, by Stuart Chase. T. R. Carskadon. Credit & Fin Management 44:17+ My '42

Road we are travelling. S. Chase. Personnel J 20:294-6 F '42

Spending and saving of the nation's families in wartime. A. C. Hanson and J. Cornfield. Monthly Labor R 55:700-13 O '42

See also

Banks and banking—United States
Business conditions
Cost of living—United States
Finance—United States
Income—Statistics
Income—United States
Labor and laboring classes—United States
Money—United States
Unemployment—United States
Wages—United States

Economic defense board

See United States—Economic warfare, Board of

Economic history

Business behavior, 1919-1922; an account of post-war inflation and depression. W. F. Payne. bibliog J Business 15:supl-215 Jl-O '42

Colonial America; a financial experiment. R. A. Foulke. il Dun's R 50:13-18, 42-4 Mr '42

Economic development of the American nation. R. C. McGrane. 691p $3.75 Ginn '42

Economic history of the American people. E. L. Bogart and D. L. Kemmerer. rev ed 909p $3.75 Longmans '42

Evolution of financing institutions from 1841. R. A. Foulke. il Dun's R 50:13-17+ Je '42

Financial institutions, 1776-1841. R. A. Foulke. il Dun's R 50:18-22+ Ap '42

From wampum to Continental currency; early financing in the new American world. R. A. Foulke. il Dun's R 50:13-18+ F '42

National income and its composition, 1919-1938. S. Kuznets, L. Epstein and E. Jenks. 2v 929p $5 Nat. bur. econ. research '41

Economic policy

America must decide. W. A. Hanley. Mech Eng 64:5-6 Ja '42

American economy during and after the war; a look ahead. N. H. Jacoby. J Business 15:289-305 O '42

America's future pattern. E. S. Cornell, jr. 214p $1.50 Edward S. Cornell, jr, 17 Campbell lane, Larchmont, N.Y. '42

Beware orthodoxy! A. G. McGregor. 48p pa 1s W. H. Allen & co, London '42

Boom or bust. B. Moody. 336p $2.50 Duell, Sloan and Pearce, New York '41

UNITED STATES—Economic policy—*Cont.*

Businessmen running production, but war-economy planners come from all groups. E. Blair. Barron's 22:4 Ap 6 '42

Concentration of production. J. L. Weiner. Oil Paint & Drug Rep 142:7+ O 26 '42

Construction industry after the war [United States and Latin America]. W. C. Bober. Harvard Business R 20 no 4:427-36 [Jl] '42

Debts and taxes threaten free enterprise. E. F. Connely. Comm & Fin Chr 154:1433+ D 11 '41

Economics in war time. H. Henig. Credit & Fin Management 44:9-12 Ag '42

Extensive postwar planning outlined by National resources planning board. Elec Eng 61:266-8 My '42

Finds public suffers from fear phobia; program to win against Fascism and depression. W. D. Fuller. Comm & Fin Chr 156: 188 Jl 16 '42

Free enterprise or state planning? unnecessary obstacles to post-war prosperity. W. W. Cumberland. Trusts & Estates 75:13-16 Jl '42

Hemisphere push; Washington initiates long-term projects to strengthen economies of hard-pressed Latin American neighbors. Business Week p34 Mr 21 '42

Investigation of concentration of economic power; final report and recommendations of the Temporary national economic committee. 783p U.S. Temporary nat. econ. com., Washington; pa $1 Supt. of doc. '41

Is inflation stopped? what the new controls can and can not do. W. Gates. Mag of Wall St 71:12-13+ O 17 '42

1942 earnings and dividend prospects, in the face of freezing of profits, wages and prices. W. Gates. Mag of Wall St 70:60-2, 103-4 My 2 '42

No peace with I. G. farben; case against the cartel system. map Fortune 26:104-7+ S '42

Now in search of a policy: allocations; after military appetite is more or less sated; how shall what is left over be distributed to industry and the economy? il Fortune 25:100-3+ Je '42

On the home front in 1918. Comm & Fin Chr 156:1337, 1347-9 O 15 '42

Planning will win the peace. D. Hitchcock. Mech Eng 64:97-9 F '42

Post-war program. A. H. Hansen. Bankers M 144:227-8 Mr '42

President continues to quarterback basic domestic issues. E. Blair. Barron's 22:4-5 Jl 13 '42

Program for American offense. M. C. Corns. Bankers M 144:384-8 My '42

Ready for economic warfare. H. A. Wallace. For Comm W 5:3+ D 27 '41

Rock products' editorial platform. N. C. Rockwood. Rock Prod 45:41 O '42

Rules on anti-inflation and economic stabilization; complete text. Nat Pet N 34:33-5 O 21 '42

Strategy for democracy. J. D. Kingsley and D. W. Petegorsky. 342p $3 Longmans '42

Time for greatness. H. Agar. 301p $2.50 Little '42

War and peace; debts and democracy; difficulties, possibilities, objectives. E. Schram. il Dun's R 50:5-9+ My '42

What's ahead on the economic front. T. N. Beckman. Credit & Fin Management 44:4-6+ Jl '42

Why I believe private enterprise will survive. L. Stern. il Mag of Wall St 70:320-2+ Jl 11 '42

See also

Economic policy
Finance—United States
Inflation (finance)
Reconstruction (World war, 1939-)
Reconstruction finance corporation
Taxation—United States
United States—Commercial policy

Economic stabilization, Office of

Byrnes acts to stabilize commercial rentals; membership of the Economic stabilization board. Comm & Fin Chr 156:1444 O 22 '42

Byrnes and co. feels its way. Business Week p15-16 O 17 '42

Byrnes named Economic stabilization director; to develop comprehensive national policy. Comm & Fin Chr 156:1273 O 8 '42

Centralized economic authority set up. Survey of Cur Business 22:4 O '42

Flanders appointed to the Economic stabilization board. Mech Eng 64:822 N '42

Economic warfare, Board of

Board of economic warfare. H. MacDonald. Special Lib 33:299-301 O '42

Defense economy work takes in Latin America; reorganization of the Economic defense board. Oil Paint & Drug Rep 140:5 D 1 '41

Economic board replaces RFC as buyer of imports. Oil Paint & Drug Rep 141:3 Ap 20 '42

Export control today. H. Lazo. For Comm W 9:8-9+ N 7 '42

FDR backs state dept. in dispute with BEW. Comm & Fin Chr 155:1783 My 7 '42

FDR clarifies duties of State dept. and Board of economic warfare. Comm & Fin Chr 155: 2128 Je 4 '42

Ready for economic warfare. H. A. Wallace. For Comm W 5:3+ D 27 '41

Education, Office of

U.S. Office of education. F. J. Kelly. J Eng Educ 33:76-81 S '42

Emergency management, Office of

Four-point program to increase vital war supplies outlined by OEM. Steel 110:48 Ja 26 '42

Personnel. Rayon 23:271 My '42

See also

United States—Price administration, Office of
United States—War production board

Employment service

Federalization of public employment offices. Monthly Labor R 54:451 F '42

Governors asked by President to transfer employment agencies to federal body. Comm & Fin Chr 155:29 Ja 1 '42

Hiring from USES; federal employment setup looks permanent. Business Week p16 D 27 '41

Job aid for men over 40. Comm & Fin Chr 155:1861 My 14 '42

Jobless salesmen become war production expediters; U.S. employment service at Toledo formulated instruction course. E. J. Bodette. Ptr Ink 199:15-17, 59 My 1 '42

Placement work, first half of 1942. Monthly Labor R 55:482-3 S '42

Promotion of vocational training by public employment offices. Monthly Labor R 54: 989-90 Ap '42

12 administrative regions of the new U.S. Employment service; map. Business Week p60 Ja 24 '42

USES takes over; all hiring for plane makers in southern California. Business Week p66 F 28 '42

Wartime labor directives of Manpower commission. Monthly Labor R 55:223-6 Ag '42

Executive departments

Administrative regulation; a study in representation of interests. A. Leiserson. 292p $3 Univ. of Chicago press '42

Administrative regulation within federal departments. G. C. S. Benson. Ann Am Acad 221:64-71 My '42

Alphabet of war agencies. Business Week p7 Ap 11 '42

Completing removal of government bureaus from D.C. Comm & Fin Chr 155:1554 Ap 16 '42

Decentralization. Arch Forum 76:sup74 F '42

Defense agencies of the federal government; chart. Manuf Rec 110:47 N '41

Do you know your ABC's list of government alphabetical agencies. Bankers M 144:260-1 Mr '42

Federal agencies every retailer should know. J Retailing 18:85-7 O '42

UNITED STATES—Executive departments—*Continued*

Federal aids to local planning. M. C. Branch, jr. 151p U.S. Nat. resources planning board, Washington; pa 30c Supt. of doc. '41

Geographic distribution of federal civilian employees, 1936-41. H. B. Byer and A. C. Edwards. map Monthly Labor R 54:919-26 Ap '42

Government agencies increase in number; alphabetical list. Oil Paint & Drug Rep 141:5+ F 9 '42

High command-reorganized; chart. Business Week p16 Jl 18 '42

Judicial function in federal administrative agencies. J. P. Chamberlain, N. T. Dowling and P. R. Hays. 258p bibliog(p235-41) $3 Commonwealth fund, New York '42

National defense chart. Iron Age 149:66-7 Ja 1 '42

On to Richmond; administrative exodus from Washington; list of removals. il Business Week p38-40 F 7 '42

Reorganizing the government housing agencies. K. K. Hoyt. Arch Rec 90:20 D '41

Staff duplication and incentives to staff economy. J. M. Juran. Advanced Management 7:102-7 Jl-S '42

Truman report on the House-approved Lanham act; federal agencies affecting architectural practice. Arch Rec 91:18+ Ja '42

Wartime Washington and the mineral industries. A. B. Parsons. Min & Met 23:459-63 S '42

Washington lineup for war; defense agencies. J. A. Rowan. Iron Age 149:64-5+ Ja 1 '42

Washington relief; transfer of governmental agencies to other cities. Business Week p14 S 12 '42

Who runs the war effort; chart. Business Week p27 Je 27 '42

See also

Government corporations

Information service, Government

also Federal communications commission and names of other agencies beginning Federal; Interstate commerce commission

Directories

Alphabetical list of federal World war agencies, 1914-21. 124p Nat. archives, Washington, D.C. '42

Directory of federal statistical agencies; a list of administrative, research, and data-collecting personnel. 6th ed 210p U.S. Bur. of the budget, Washington '42

Directory of government oil agencies. Oil & Gas J 41:73+ Jl 30 '42

On to Washington? with directory and map. Arch Rec 91:38-40, 92 Mr '42

U.S. bureaus in New York. Adv & Sell 35:60, 62 Ag '42

Who's where in Washington; brief list of officials, addresses and telephone numbers. E. Johns. Adv & Sell 35:58 Jl '42

Export control, Office of

See Export trade—Regulation

Facts and figures, Office of (now War information, Office of)

Government agencies and civilian morale. P. S. Broughton. Ann Am Acad 220:168-77 Mr '42

Government to reveal wartime information. Comm & Fin Chr 155:1249 Mr 26 '42

Federal administrative procedure, Office of (proposed)

Proposed Office of federal administrative procedure. A. T. Vanderbilt. bibliog Ann Am Acad 221:145-52 My '42

Federal bureau of investigation

Far-flung activities in probing crimes affect many insurance interests. D. Porter. Ins Field (Fire ed) 71:8-9 Ja 15 '42

FBI fights sabotage. J. E. Hoover. Aero Digest 40:74 Mr '42

FBI radio traps spy-ring. S. C. Milbourne. il Radio N 26:8-9+ D '41

Mobilizing for national defense. H. H. Clegg. Am Gas Assn Proc 1941:30-4

Optics in sabotage and espionage. W. G. Driscoll. Opt Soc Am J 32:134-8 Mr '42

U.S. guards against sabotage. J. E. Hoover. il Chem Ind 50:332-5 Mr '42

Federal trade commission

See Federal trade commission

Food and drug administration

Drug control tightened, 1941. Oil Paint & Drug Rep 141:42 Ja 12 '42

Foreign and domestic commerce, Bureau of

America's geo-political institute. C. R. Bryan. For Comm W 7:3+ My 16 '42

Economy division revamped by Commerce bureau. Oil Paint & Drug Rep 141:7+ F 23 '42

Export information industry marches on. J. H. Morse. For Comm W 8:6-7+ S 19 '42

Insurance advice for U.S. Dept. of commerce. East Underw 42:13 D 12 '41

Foreign population

American unity and our foreign-born citizens. H. B. Hoskins. Ann Am Acad 220:153-9 Mr '42

Americans all; studies in intercultural education. 385p bibliog(p353-78) $2 Nat. education assn. 1201 16th st. NW. Washington, D.C. '42

Composition and assimilation of foreign population of the United States. Monthly Labor R 54:73-5 Ja '42

Immigrants from Axis-conquered countries. M. R. Davie. Ann Am Acad 223:114-22 S '42

President appeals for sane policy regarding foreign born employees. Comm & Fin Chr 155:137 Ja 8 '42

Steam from the melting pot; there is a replica of explosive Europe on U.S. ground; can we transform it into a working model of political warfare? il Fortune 26:74-6+ S '42; Reply. F. N. Trager. 26:50 N '42

See also

Aliens

French Canadians in the United States

Germans in the United States

Italians in the United States

Japanese in the United States

Latin Americans in the United States

Foreign relations

America and world mastery; the future of the United States, Canada, and the British empire. J. MacCormac. 338p $2.75 Duell, Sloan & Pearce, New York '42

American proposal; room for democracy and economic freedom in a shrunken world if we agree with Britain to let it expand. Fortune 25:59-63 My '42

America's strategy in world politics; the United States and the balance of power. N. J. Spykman. 500p bibliog(p473-80) $3.75 Harcourt '42

Development of United States foreign policy; addresses and messages of Franklin D. Roosevelt, compiled from official sources. (77th Congress, 2d session, Senate document 188) 150p pa 15c Supt. of doc. '42

Diplomatic history of the American people. T. A. Bailey. 2d ed 864p bibliog(p823-30) $4.25 Crofts '42

Fortune survey; post-war relations. Fortune 26:8-10+ Ag '42

Fortune survey; U.S. goes internationalist. Fortune 24:121-2 D '41

House committee on foreign affairs. A. C. F. Westphal. 268p $3 Columbia univ. press '42

In the public mind; we compare notes with Canada and check the results against the opinions of America's business and intellectual leaders. Fortune 25:8-10+ Je '42

Interests of the United States as a world power. W. H. Shepardson. 64p $1.75 Claremont colleges, Claremont, Calif. '42

Making of tomorrow. R. de Roussy de Sales. 338p $3 Reynal & Hitchcock, New York '42

UNITED STATES—Foreign relations—*Cont.*

Principles of foreign policy under the Cleveland administrations. G. R. Dulebohn. 102p bibliog(p99-102) priv ptd George Roscoe Dulebohn, Girard college, Philadelphia '41

Purpose of America. D. C. Coyle. Ann Am Acad 220:193-9 Mr '42

Senate foreign relations committee. E. E. Dennison. 201p bibliog(p148-54) $2.50 Stanford univ. press '42

Treaties and constitutional law: property interferences and due process of law. W. B. Cowles. 315p $4.50; pa $3.50 Am. council on public affairs, Washington, D.C. '41

United States and the Far East; certain fundamentals of policy. S. K. Hornbeck. 100p $1; pa 50c World peace foundation '42

United States in a new world; series of reports on potential courses for democratic action. il map Fortune 25:supp 1-20 My; 26:supp 1-33 Ag '42

World's destiny and the United States; a conference of experts in international relations. 309p pa 50c World citizens assn, 84-86 E. Randolph st, Chicago '41

See also
Neutrality
World war, 1939—
United States

Far East

Our Far Eastern record. v. 2, A reference digest on American policy. F. Brodie, ed. 78p pa 15c Inst. on Pacific relations, New York '42

Great Britain

See Great Britain—Foreign relations—United States

Japan

See Japan—Foreign relations—United States

Mexico

See Mexico—Expropriation policy

Forest service

Forest fire fighters. D. Parkinson. Business Week p79 Je 20 '42

General accounting office

General accounting office review procedure of war contracts. E. W. Bell. J Account 74: 406-10 N '42

Index-digest of published decisions of the comptroller general of the United States with statutes, decisions, and opinions cited therein, 1929-1940. 1078p General accounting office, Office of the comptroller general of the U.S., Washington; $3.25 Supt. of doc. '41

Government printing office

Public printer answers critics of the Government printing office. A. E. Giegengack. Inland Ptr 109:23-5 Je '42

Rationing of sugar hands government printer a sweet job. Inland Ptr 109:33-4 Ap '42

6000 tons of ration books. Pulp & Pa of Can 43:401 Ap '42

Government reports, Office of
(now War information, Office of)

From Washington; Lowell Mellett's office in new setup. C. Bargeron. Comm & Fin Chr 155:2305+ Je 18 '42

Information service to expand facilities. Comm & Fin Chr 155:659 F 12 '42

U.S. information centers aid business to find who, how. Sales Management 50:41-2 My 15 '42

History

Bibliography

Bibliographies in American history; guide to materials for research. H. P. Beers. rev ed 487p $4.75 Wilson, H. W. '42

Civil war

Stonewall Jackson. il Fortune 26:102-3 S '42

Industries and resources

Age of enterprise; a social history of industrial America. T. C. Cochran and W. Miller. 394p bibliog(p359-68) $3.50 Macmillan '42

American industry in a war of machines. J. A. Krout, ed. 111p pa $2.50 Academy of political science, New York '42

Converting industry; turning a nation's production to war. 70p War production board, Division of information, Washington, D.C. '42

Day after tomorrow. A. P. Peck. Sci Am 167:151-4, 203-7 O-N '42

Democracy and free enterprise. T. W. Arnold. 81p $1 Univ. of Oklahoma press, Norman '42

Economics of American industry. E. B. Alderfer and H. E. Michl. 566p bibliog(p547-59) $4 McGraw-Hill '42

Effect on U.S. economy, as world supplies of basic materials change hands. V. L. Horoth. il Mag of Wall St 70:632-4+ O 3 '42

Molders of a better destiny. C. M. A. Stine. Chem & Eng N 20:1085-9 S 10 '42; Same. Science 96:305-11 O 2 '42

New defense facilities. J. D. Wilson. Survey of Cur Business 21:10-17+ N '41

Remaking America. J. Franklin. 287p $2.75 Houghton '42

Strategic resources mobilization planned. Oil Paint & Drug Rep 141:3+ Mr 2 '42

War remaking industrial America; shifts in economic geography today and tomorrow. L. O. Hooper. il Mag of Wall St 70: 479-81+ Ag 22 '42

War remaking industrial America; soaring war production versus dwindling civilian output. L. O. Hooper. Mag of Wall St 70: 427-9+ Ag 8 '42

What makes America great; a collection of thirty illustrated stories of American business. H. B. Neill. 352p $3.50 Aerographic corp, Louisville, Ky. '41

Work that's vital to the war. Business Week p18 Jl 25 '42

See also
Agriculture—United States
Airplane industry and trade—United States
Automobile industry and trade—United States
Building trades—United States
Chemical industries—United States
Cotton trade—United States
Industrial mobilization
Mines and mineral resources—United States
Pacific coast—Industries and resources
Paper industry and trade—United States
Petroleum industry and trade—United States
Rubber industry and trade—United States
Steel industry and trade—United States
Textile industry—United States

Information service

See United States—Government reports, Office of

Insular possessions

Overseas America; our territorial outposts. C. F. Reid. 96p bibliog(p96) pa 25c Foreign policy assn, New York '42

See also
Hawaiian Islands
Philippine Islands
Puerto Rico

Interstate commerce commission

See Interstate commerce commission

Justice, Department of

Justice department sets up War division. Comm & Fin Chr 155:2039 My 28 '42

Antitrust division

Antitrust war policy and full production. T. Arnold and J. S. Livingston. Harvard Business R 20 no 3:265-76 [Ap] '42

UNITED STATES—*Continued*

Labor, Department of

Merger of Wage and Hour and Public contracts divisions. Monthly Labor R 55:843 O '42

Wage-hour, public contract units merged to facilitate operations. Steel 111:93 S 14 '42

Conciliation service

Activities of the United States conciliation service, November 1941. Monthly Labor R 54:97-9 Ja '42 [cont monthly]

Activities of the United States conciliation service, 1941-42. Monthly Labor R 55:747-9 O '42

Civil engineer and industrial relations; procedure of U.S. Conciliation service. J. R. Steelman. il Civil Eng 12:599-600 N '42

Wartime problems of the federal conciliation service. J. R. Steelman. Ann Am Acad 224: 135-40 N '42

Labor statistics, Bureau of

Postwar division

Swords and plowshares; crux of postwar problem will be jobs. D. H. Davenport and D. Hitchcock. Harvard Business R 20 no 3:307-14 [Ap] '42

Library of Congress

See Library of Congress

Marine corps

Here come the marines! the story of the Devil Dogs, from Tripoli to Wake Island. A. Griffin. 219p $2 Howell, Soskin, publishers, 17 E. 45th st, New York '42

Leathernecks pound brass; Marine corps is equipping its force with radio equipment. J. V. Sandberg. il Radio N 27:44-5 My '42

Marines have landed; parachute training. A. D. Rathbone, 4th. il Sci Am 166:3-6 Ja '42

Radio in the Marine corps. J. G. Smith. il Radio N 27:54-6+ Ja '42

Maritime commission

Commission increases training facilities for officers and seamen. Marine Eng 47:109 F '42

Functions of the Maritime commission Production division. A. D. MacLean. Marine Eng 47:170-3 O '42

Key men of the Maritime commission. Marine Eng 47:164-7 O '42

Maritime board prepares to engage in insurance. Nat Underw 45:5 D 18 '41

Maritime commission covering war risks on American hulls. East Underw 43:1+ Ja 9 '42; Nat Underw 46:3+ Ja 8 '42; Weekly Underw 146:139 Ja 10 '42; Marine Eng 47: 94-5 F '42

Maritime commission Victory fleet flag and merit pennant. il Marine Eng 47:154 Ag '42

Remedy against U.S. is suit in admiralty; federal court exclusive jurisdiction of tort cases. East Underw 43:27 O 23 '42

U.S. Maritime commission organization; ship design and construction. Marine Eng 47: 168-9 O '42

War risk measure sent to President; authority to write insurance on any vessel, crew or cargo; text. Weekly Underw 146:837, 840, 845 Ap 11 '42

Maritime war emergency board

Board named to settle ship labor disputes. Comm & Fin Chr 155:341 Ja 22 '42

Merchant marine

See Merchant marine—United States

Mines, Bureau of

Annual report of the Mining division, fiscal year 1941. C. F. Jackson. bibliog pls U S Bur Mines Rep of Invest 3596:1-47 '41

Biennial report of Petroleum and natural-gas division, fiscal years 1940 and 1941. R. A. Cattell and others. bibliog pls U S Bur Mines Rep of Invest 3616:1-57 '42

Bureau of mines reorganized. Chem & Eng N 20:912 Jl 25 '42

Bureau of mines reorganized to accelerate domestic mineral output. Steel 111:58 Jl 6 '42; Same cond. Oil Paint & Drug Rep 141:4+ Je 29 '42

Bureau of mines reorganized with regional offices. Coal Age 47:110 Jl '42

Mines bureau to build $350,000 pilot plants for gas reduction of zinc ores. Steel 111:54 Ag 10 '42

Signposts to safety set up by Board decisions. Coal Age 46:69-70, 72 D '41; 47:58-9 Ja '42

What every miner should know; numerous agencies and aids to promote exploitation of strategic minerals. R. Linton. Explosives Eng 20:287-8 O '42

Work of Bureau of mines for 1941 centers on defense needs. News Ed 19:1402 D 10 '41

Mint

U.S. Mints' output sets new record in 1941. Comm & Fin Chr 155:446 Ja 29 '42

National advisory committee for aeronautics

Annual report, summary. Mech Eng 64:227-8 Mr '42

New research facilities for NACA in three strategic locations. il Automotive & Aviation Ind 87:24-7+ Jl 15 '42

National park service

Removal of the National park service from Washington. Science 95:269 Mr 13 '42

Naval reserve

Navy to commission radio engineers. J. L. Kerley. Inst Radio Eng Proc 30:329-30 Jl '42

Radio men thoroughly trained in four months. il Sci Am 166:81-2 F '42

Navy

Down-under ships of the navy. W. L. Robinson. il Sci Am 167:196-8 N '42

FDR vows defeat of tyrants; praises navy at dedication of Naval medical center. Comm & Fin Chr 156:811 S 3 '42

He's in the navy now. J. T. Tuthill, jr. 256p $2.50 Robert M. McBride & co, New York '41

Learn photography; naval school. H. C. McKay. Am Phot 36:46-7 N '42

Naval indispensables; cruisers can perform a wide range of missions. W. L. Robinson. il Sci Am 167:102-4 S '42

Naval shore program. E. B. Landry. il Safety Eng 84:10-12 Jl '42

Navy and the navy; it fights superbly, as Midway proved; ashore it has been another story. il diags Fortune 26:66-73+ Ag '42

Navy wife. A. B. Pye and N. Shea. 335p bibliog(p326-8) $2.50 Harper '42

Navy's need for engineers. J. W. Barker. J Eng Educ 33:33-6; Discussion. 47-8 S '42

New model basins for U.S. navy. il diags Engineer 173:422-3, 440-2, 462-5, 487-9, 506-8 My 22-Je 19 '42

Our fighting ships. M. D. Katz, jr, H. C. Lee and E. L. Levy, jr. 101p bibliog(p90) $2 Harper '42

Psychiatric examinations of naval recruits; abstract. U. H. Helgesson. Science 95:sup 12+ My 22 '42

Radio in the navy. L. Noyes. il Radio N 27: 50-2+ Ja '42

Safety goes to sea. il Safety Eng 84:6-8 Jl '42

Sea nests for war birds; value of aircraft carriers. W. L. Robinson. il Sci Am 167: 52-4+ Ag '42

Selection, training, and morale of navy personnel. C. N. Smith. Ann Am Acad 220:57-66 Mr '42

Uncle Sam's fighting men. R. K. Burns and L. M. Spencer. 56p bibliog(p57) pa 60c Science research associates, 1700 Prairie av, Chicago '42

U.S. battleships at war! the floating fortresses of our navy. T. Penfield. 62p 10c Rand McNally & co, 536 S. Clark st, Chicago '42

War yachts for coastal defense, etc.; government taking over private craft. il Marine Eng 47:139+ Ag '42

UNITED STATES—Navy—*Continued*

What the citizen should know about the navy. H. W. Baldwin. 2d rev ed 219p bibliog(p211-14) $2.50 Norton '42

See also

Moving pictures in naval education
United States—Air service, Navy
United States—Marine corps
Warships—United States

Civil engineer corps

Functions of the Civil engineer corps in the naval establishment. L. B. Combs. il Civil Eng 12:320-3 Je '42
Work of the Civil engineer corps of the Navy. J. J. Manning. il Civil Eng 12:73-6 F '42

Construction battalions

Navy enlisting construction forces for combat zone work. Eng N 128:509 Ap 2 '42
Seabees. il Roads & Sts 85:40 S '42
Seabees are coming. W. G. Bowman. il Eng N 129:415-22 S 24 '42

Cost inspection division

Navy cost inspection; auditing of war contracts. P. Grady. J Account 74:403-5 N '42

Equipment and supplies

Army-navy aeronautical standardization. D. G. Lingle and G. A. Seitz. diag S A E J 50: sup32-3, 66-80 N '42
Ceramics with the armed forces. Cer Ind 38: 44-5+ Ap '42
Munitions board lists prohibited items for army, navy construction. Steel 110:60-1 My 11 '42
Navy cable sales indictment. India Rubber W 107:67 O '42
Optical problems facing the navy. S. S. Ballard. Opt Soc Am J 32:123-8 Mr '42
Some typical conversion case histories; kitchen utensils for the services. Metals & Alloys 15:768-9 My '42
Some views on plastics in wartime; navy applications. J. B. Lunsford. Mod Plastics 19:41-4 Ap '42
War work, you can do it, too; 9,000 different articles, used by our armed forces, have either army or navy specifications and directions for packing. Mod Packaging 15: 49+ My '42

Insignia

Insignia of the services. P. Brown. $1.50 Scribner '42

Officers

Concerning commissions; how to find out if and where you fit. J. M. Dickey. Arch Rec 91:58 Je '42

Pay, allowances, etc.

United States pension and compensation payments. H. Malisoff. Int Labour R 46:569-77 N '42

Public relations bureaus

Army and navy will help with copy and picture themes. Ptr Ink 198:104-6 F 6 '42

Textile requirements

Knitted garments used by the United States navy. R. G. Buck. Am Dyestuff Rep 31:199-200, 220-5 Ap 27 '42
No let-up seen in textile buying. B. Stubblefield. Textile World 92:57 Je '42
Sewing operations chart; basic types of machines for producing army and navy items. Textile World 92:92 S '42
Textiles from the navy standpoint. R. G. Buck. Am Dyestuff Rep 31:4-5+ Ja 5 '42

Navy department

Navy and the navy; it fights superbly, as Midway proved; ashore it has been another story. il diags Fortune 26:66-73+ Ag '42
Navy labor staff; department swinging away from its stand-off attitude in disputes affecting its suppliers. Business Week p62-3 Ja 31 '42
Navy sets up section to work with banks. Comm & Fin Chr 155:1860 My 14 '42
You're in the navy now! awards spur workers' patriotic pep; companies awarded Navy's Bureau of ordnance flag and E pennant. il Steel 110:48-9 F 9 '42

Bureau of yards and docks

Functions of the Civil engineer corps in the naval establishment. L. B. Combs. il Civil Eng 12:320-3 Je '42
Work of the Civil engineer corps of the Navy. J. J. Manning. il Civil Eng 12:73-6 F '42

Employees

Industrial-relations policy of Navy department. Monthly Labor R 55:719-20 O '42
New labor policy; navy sets up board of 250 to settle problems. Business Week p86-7 Ag 15 '42

Insurance requirements

Navy insurance office under Beck. Nat Underw 46:1 Ap 23 '42
Official bond schedule. Nat Underw 46:19 F 12 '42
U.S. navy insurance requirements embrace wide range of coverages. East Underw 42:73 D 12 '41

Officials

See Public officials

Ordnance department

Ordnance department plastic developments. E. T. McBride. Chem & Eng N 20:849-50 Jl 10 '42
Shift Motor transport service; Ordnance dept. to control unit formerly under Quartermaster corps. Automotive & Aviation Ind 87:48+ Ag 15 '42

Patent office

Patent procedure. M. Henninger. il Product Eng 13:16-18, 82-4, 148-9, 281-2 Ja-Mr, My '42
Patents on march. Business Week p52+ Ja 24 '42

Petroleum coordinator, Office of

Experienced oil men handle OPC problems in district 3. Nat Pet N 34:14-16 Je 3 '42
House committee commends OPC for war activities. H. D. Ralph. Oil & Gas J 41:15+ Jl 9 '42
Industry endorses elevation of Ickes to position with WPB. Oil & Gas J 41:40-1 My 14 '42
Meet OPC specialists who handle problems of oil marketing. pors Nat Pet N 34:9-10 O 7 '42
Natural gas and gasoline division of OPC organized. Oil & Gas J 41:29 Je 11 '42
OPC enjoys confidence and cooperation of oil industry; condensed OPC directory. H. D. Ralph. Oil & Gas J 41:12-13 S 3 '42
Office of petroleum coordinator for war; portraits. Gas Age 90:48 O 8 '42
OPC Production division has duty of insuring oil supply. H. D. Ralph. Oil & Gas J 41: 24-5+ S 10 '42
OPC Refining division is clearing house for war's petroleum requirements. H. D. Ralph. Oil & Gas J 41:12-13+ O 1 '42
OPC's Washington and district offices; directory. Oil & Gas J 40:63 Ja 29 '42
Organization chart. Nat Pet N 34:10-11 Ag 12 '42
Organization of the Office of petroleum coordinator for war; chart. Oil & Gas J 41: 25 Ag 13 '42
Transportation division of OPC doing vital task. H. D. Ralph. Oil & Gas J 41:22-4 N 5 '42

Politics and government

Fortune survey; postwar trends in government. Fortune 26:10+ Jl '42
Report to Mr Roosevelt in which he is asked to conduct his own purge while the initiative is still his. il Fortune 26:110-12+ S '42

Population

See Population

UNITED STATES—*Continued*

Price administration, Office of

Accounting aspects of price administration. H. F. Taggart. J Account 74:11-17 Jl '42

Can't regulate rates; OPA intervenes in cases. G. E. Doying, jr. Elec W 118:296 Jl 25 '42

Dean heads OPA Fuel rationing division. Oil Paint & Drug Rep 142:5 S 14 '42

Directory of OPA officials. Iron Age 149:20 sec 2 F 12 '42

Federal price control, from July 1, 1940 to Feb. 11, 1942. 127p pa 20c Supt. of doc. '42

How will the OPA fix gas and other utility rates? F. X. Welch. Pub Util 30:465-77 O 8 '42

ICC rebuffs OPA; attempt to control freight rates as basic factor in retail costs. Business Week p22 Mr 21 '42

New OPA financial reporting forms. W. W. Werntz. N A C A Bul 23:1159-76 My 1 '42

OPA announces simpler financial reports. Refrig Eng 44:309 N '42

OPA begins work on retailer assistance. Comm & Fin Chr 156:1171 O 1 '42

OPA creates labor office. Comm & Fin Chr 156:274 Jl 23 '42

OPA establishing new appeals system for price adjustments. Oil Paint & Drug Rep 142:7+ N 9 '42

OPA executive personnel realigned. Oil Paint & Drug Rep 141:5+ Mr 16 '42

O.P.A. financial reporting program. J Account 73:508-9 Je '42

OPA may inspect corporation tax returns. Comm & Fin Chr 155-1261 Mr 26 '42

OPA opens field offices in 16 cities. Oil Paint & Drug Rep 141:4 Ap 6 '42

OPA organization realigned to meet new duties, responsibilities. Steel 110:44 Mr 9 '42

OPA personnel, and where to find them. Business Week p46 O 10 '42

OPA problems; abstracts. L. Henderson; D. Ginsberg. Oil Paint & Drug Rep 141:36 Je 1 '42

OPA seeks financial data from corporations. Comm & Fin Chr 155:1871 My 14 '42

OPA sets price ceiling on scarce articles. Comm & Fin Chr 155:1343 Ap 2 '42

OPA signposts. Business Week p17-19 O 31 '42

OPA sleuthing. Business Week p14 Je 13 '42

OPA subpoena power. Comm & Fin Chr 156: 186 Jl 16 '42

OPA trims sails. Business Week p87-8 S 19 '42

OPA's job. L. Henderson. Manuf Rec 111:27+ Je '42

OPA's police job. Business Week p19-20+ Mr 28 '42

Our fight against high prices. L. Henderson. il Factory Management 100:58-63 Ja '42

Personnel. Steel 110:14 sec 2 Ja 12 '42

Price education; OPA to educate retailer. Business Week p66+ My 23 '42

Steel products committee formed by OPA, with W. E. Watson as chairman. Steel 110: 39 Je 22 '42

Consumers' division

Miss Elliott & co. Business Week p77-8+ D 6 '41

OPA establishes consumer centers of information. Sales Management 50:33-4 Ap 20 '42

OPA humanizes; to explain rationing and make use of public's suggestions. Business Week p36 Ag 8 '42

OPA revamps Consumers division. Oil Paint & Drug Rep 142:4 Jl 13 '42

Standards division

OPA Standards div. forms advisory group. Oil Paint & Drug Rep 142:7+ O 12 '42

OPA Standards division sets up its operating sections. Ind Stand 13:250 O '42

OPA uses standards as operating controls. Ind Stand 13:215-16 S '42

Paint standards pondered by new OPA unit. Oil Paint & Drug Rep 142:7+ S 21 '42

Standards division of the Office of price administration. Science 96:312-13 O 2 '42; Oil Paint & Drug Rep 142:5+ S 14 '42; Comm & Fin Chr 156:1094 S 24 '42

WPB and OPA orders are based on standards. Ind Stand 13:232-5 S '42

Production management, Office of

[*now a division War production board*]

Four S's of supply; campaign for simplification, salvage, specification, and substitution set up by Conservation bureau. il Business Week p48-9+ D 27 '41

Functioning of OPM. A. I. Henderson. Paint Oil & Chem R 103:18+ N 20 '41

OPM forms can makers advisory committee. Oil Paint & Drug Rep 140:4 D 15 '41

OPM purchasing div. key personnel listed. Oil Paint & Drug Rep 140:5+ D 15 '41

Personnel. Steel 110:15-17 sec 2 Ja 12 '42

What our new "victory" economy means. L. J. Rosenwald. Ind Stand 13:1-4 Ja '42

Public health service

Fortieth annual conference of the United States Public health service with the State and territorial health officers, Washington, D.C. March 25-26. Pub Health Rep 57:696-707 My 8 '42

Opening remarks to the fortieth annual conference of the United States Public health service with the Conference of state and territorial health officers. T. Parran. Pub Health Rep 57:691-6 My 8 '42

Bibliography

Public health service publications; a list of publications issued during the period July-Dec. 1941. Pub Health Rep 57:667-72 My 1 '42

Public health service publications; a list of publications issued during the period January-June 1942. Pub Health Rep 57:1460-4 S 25 '42

Quartermaster corps

Army food and fighting efficiency. P. P. Logan. il Food Ind 14:33-6 My '42

Food for fighters; army's new procurement methods. il Business Week p19-20+ D 27 '41

How army is clad; operations of Philadelphia quartermaster depot. il Business Week p40+ O 31 '42

QMC conserves; readjust their specifications to meet war's practicalities. il Business Week p62+ Ap 4 '42

QMC cuts a trail; its techniques of buying and expediting. Business Week p48+ Je 13 '42

Construction division

Engineer and defense construction. B. B. Somervell. il Civil Eng 12:3-6 Ja '42

Reclamation, Bureau of

Bureau of reclamation marks 40th year; abstract. J. C. Page. Eng N 128:1034 Je 25 '42

Land and power administration of the Central Valley project. M. R. Goodall. bibliog map J Land & Pub Util Econ 18:299-311 Ag '42

Scientific research and development, Office of

Office of scientific research and development. K. T. Compton. J Eng Educ 33:59-69 S '42

Science and national defense. V. Bush. J Ap Phys 12:823-6 D '41; Same. Science 94:571-4 D 19 '41

Social conditions

Age of enterprise; a social history of industrial America. T. C. Cochran and W. Miller. 394p bibliog(p359-68) $3.50 Macmillan '42

America in transition. J. A. Kinneman and R. G. Browne. 581p $3.50 McGraw-Hill '42

American way of life; our institutional patterns and social problems. H. E. Barnes, O. M. Ruedi and R. H. Ferguson. 802p bibliog(p759-87) $5 Prentice-Hall '42

Fortune management poll; what does the American executive think of his future? Fortune 26:8-10+ S '42

UNITED STATES—Social conditions—*Cont.*

Fortune survey; people expect to win a long, tough war abroad and a better life at home. Fortune 26:8-19+ Jl '42

Socio-economic and employment status of urban youth in the United States, 1935-36. B. D. Karpinos. (Pub. health bul. 273) 58p bibliog(p57-8) U.S. Public health service, Washington; pa 15c Supt. of doc. '41

Standards, National bureau of

National bureau of standards in war simplification and standardization work. L. J. Briggs. Ind Stand 13:149-51 Je '42

Standard samples check laboratory reliability. H. A. Bright. il Ind Stand 12:268-9 O '41

State, Department of

FDR clarifies duties of State dept. and Board of economic warfare. Comm & Fin Chr 155: 2128 Je 4 '42

Riddle of the State department. R. Bendiner. 231p $2 Farrar '42

Statistics

Financial, industrial, and commercial statistics. Fed Res Bul 28:25-73 Ja '42 [cont monthly]

Statistical abstract of the United States, 1940, sixty-second annual edition. 963p U.S. Bur. of the census, Washington; $1.50 Supt. of doc. '41

Summary table: selected business indicators for specified years and percentage changes, 1929, 1933, 1937, 1939-1941. Survey of Cur Business 22:63-4 F '42

Supervising architect's office

$850 million architect. Arch Forum 75:sup2 D '41

Supreme court

Century at the bar of the Supreme court of the United States. C. H. Butler. 222p $3 Putnam '42

Implications of the case of FPC v. Natural gas pipeline company; judicial review theory. W. E. Tucker. Pub Util 30:604-11 O 22 '42

Implications of the Natural gas pipeline company of America decision. G. Slaff. Pub Util 30:611-18 O 22 '42

Labor decisions of the Supreme court, 1940 and 1941 terms. bibliog Monthly Labor R 55:530-9 S '42

Public utility regulation: a new chapter; decision of Supreme court in Federal power commission v. Natural gas pipeline co. R. W. Harbeson. bibliog Harvard Business R 20 no 4:496-507 [Jl] '42

Recent Supreme court interpretations of labor law (1940-41). E. B. McNatt. J Business 14:356-71 O '41

Supreme court and judicial review. R. K. Carr. 304p bibliog(p293-8) $2 Farrar '42

Supreme court on federal taxation, 1940-1941. R. Magill. bibliog J Account 72:487-99 D '41

Supreme court sets new precedent for rate regulation and valuation work. Eng N 128: 488-9 Mr 26 '42

United States Supreme court redeems itself; Natural gas pipeline company case. M. G. Glaeser. J Land & Pub Util Econ 18:146-54 My '42

Tennessee Valley authority

See Tennessee Valley authority

Territorial expansion

How we acquired our national territory. R. R. McCormick. 88p $1.50 Chicago tribune, Public service office, Chicago '42

Looking westward. G. Chinard. Franklin Inst J 234:1-16 Jl '42

Territories

See also Alaska; Banks and banking—United States (territories); Hawaiian Islands

Transportation investigation and research board

Annual report. Pub Util 30:672-3 N 5 '42

Treasury department

Protect U.S. Treasury against loss; personnel. East Underw 42:32+ D 12 '41

Regulations establishing Vested property claims committee. Fed Res Bul 28:208-9 Mr '42

Treasury agents active in law enforcement. Comm & Fin Chr 156:463 Ag 6 '42

Library

U.S. Treasury department library; its growth and development from 1817 to the present time. I. S. Diamond. Special Lib 33:113-15 Ap '42

Views

This is America. E. Roosevelt and F. C. Macgregor. $3 Putnam '42

War department

Army traffic dept. adds to its staff; War department's transportation set-up. Ry Age 112:709-10 Ap 4 '42

Common sense first; plant protection inspection service of the War department. C. G. Richmond. il Safety Eng 84:16-18 Jl '42

Insurance men serving as advisers. East Underw 42:70+ D 12 '41

New contract form becomes standard in War department; architect-engineer-manager form. Eng N 128:297-8 F 19 '42

$334 million for civil functions. Comm & Fin Chr 155:1160 Mr 19 '42

War dept. radio net. E. F. French. il Radio N 27:39-40+ Ja '42

War department's needs for engineers. W. H. Kushnick. J Eng Educ 33:70-5 S '42

Bibliography

Basic field manual; list of publications for training, Sept. 1, 1941. 128p U.S. War dept. Washington '41

Quarterly digest of directives. subs $1.50 Published by Book service, Adjutant general's school, Fort Washington, Md.

Buildings

Concreting a 100-acre office building; War department office building in Arlington, Va. il Eng N 128:920-4 Je 4 '42

Planning the world's largest building; War department office building. il plans Eng N 129:569-75 O 22 '42

Fiscal division

Importance of accountancy in the war program. A. Stewart. J Account 74:397-9 N '42

Insurance requirements

Role insurance plays in defense effort. R. F. Hill. Weekly Underw 146:5+ Ja 3 '42; Abstract. East Underw 43:26+ Ja 2 '42

Price adjustment board

Fact finding for War department Price adjustment board. M. C. Troper. J Account 74:423-32 N '42

Public relations, Bureau of

War department policy on advertising; a review of regulations and procedures to guide advertisers in the preparation of copy and photographs. R. P. Powell. Ind Marketing 27:37-40+ Ag '42; Same cond. Ptr Ink 200: 48-52 Jl 10 '42; Same cond. Adv & Sell 35: 44+ Ag '42

War information, Office of

Davis assumes duties as War information head. Comm & Fin Chr 156:23 Jl 2 '42

Elmer Davis and the news. Business Week p7 Je 20 '42

Impact of war on advertising. Adv & Sell 35:19-20 S; 19-22 O '42

Office of war information. E. Dodds. Special Lib 33:301-2 O '42

President merges war information bureaus. Comm & Fin Chr 155:2308 Je 18 '42

Protection of statistical information from enemy use. S. A. Rice. Special Lib 33: 243-9 S '42

War labor board

See National war labor board

UNITED STATES—*Continued*

War manpower commission

See War manpower commission

War production board

A. I. Henderson heads WPB Materials division. Oil Paint & Drug Rep 141:3+ My 18 '42
Additional advisory committees appointed. Steel 111:41 O 26 '42
Balancing munitions output new phase in WPB program; control over production and materials intensified; processing of Production requirements plan applications to be revamped. Steel 111:18-19 Ag 31 '42
Bureau of construction of WPB moved to New York. Roads & Sts 85:61+ Je '42
Converting civilian production to war production. W. H. Wheeler, jr. Edison Elec Inst Bul 10:136-8+ Ap '42
Co-operative abstracting service for the benefit of the U.S. Bureau of industrial conservation, War production board. Special Lib 33:176-7 My-Je '42
Dollar-a-year policy. Comm & Fin Chr 155:858 F 26 '42
Don Nelson's men; how they serve and where they stand; report to executives. pors Business Week p45-62 Jl 4 '42
Donald M. Nelson made responsible for war production program by executive order. Comm & Fin Chr 155:345 Ja 22 '42
Executive order establishing War production board. Fed Res Bul 28:108-9 F '42
Getting results with WPB. Arch Rec 92:38 S '42
Greater, faster arms production goal of Nelson. Steel 110:21-2 Ja 19 '42
Groups named to pass on construction work. Comm & Fin Chr 156:1644 N 5 '42
Guthrie resigns from WPB; inquiry ordered. Comm & Fin Chr 155:1242 Mr 26 '42
Health supplies branch of War board reorganized. Oil Paint & Drug Rep 141:7 Je 29 '42
How lighting ratings are handled; Lighting and fixtures section of Building materials branch. M. N. Waterman. flow chart Elec W 118:102-7 Jl 11 '42
How priority and allocation applications are handled; four flow sheets show steps taken by War production board branches. Iron Age 149:128-128A Mr 5 '42
How WPB handles mountains of paper work. J. Garth. il Am Business 12:18-20, 22-4 Je '42
Howard Coonley heads up WPB simplification work. Ind Stand 13:53-4 Mr '42
Industrial consultants aid armed forces in conversion program. Steel 110:52 My 4 '42
Industry branches remodeled under new control system. Steel 111:49 N 9 '42
Industry faces it; with list of industry representatives in WPB. Business Week p17-18+ F 21 '42
Industry operations bureau reorganized. Comm & Fin Chr 155:1260 Mr 26 '42
Inventory order. Business Week p48+ N 7 '42
Inventory thaw; WPB materials redistribution branch. Business Week p14-15 O 24 '42
Inventory truce. Business Week p57 Jl 11 '42
Labor is awarded strong voice in WPB. Iron Age 150:116-18 S 10 '42
Labor-management group named by WPB. Oil Paint & Drug Rep 142:3+ O 19 '42
Material controls revised by WPB. Ry Age 113:349-50 Ag 29 '42
Materials, and their scarcity ratings. Business Week p24 My 2 '42
Materials distribution splits WPB. Business Week p7 O 24 '42
Materials division; organization chart, portraits. Eng & Min J 143:45 Ap '42
M.L. orders appeals policy made uniform. Oil Paint & Drug Rep 141:5+ Je 8 '42
Metalworking industry advisory committees appointed by WPB. Steel 110:52 Ap 20 '42
Nelson abolishes OPM; new organization has six major divisions. Comm & Fin Chr 155:562 F 5 '42
Nelson appointment marks new turn; simpler, clearer defense set-up likely. E. Blair. Barron's 22:4 Ja 19 '42
Nelson speaks out. Business Week p14-15 Ag 29 '42
Nelson, the coordinator; new high command; chart. Business Week p18-19 Ja 31 '42
New order in WPB. Business Week p14 S 26 '42
New priorities branch hears appeals against WPB orders. Iron Age 150:118-19 Jl 9 '42
New WPB transport division organized. Ry Age 113:664 O 24 '42
New WPB warrant plan under consideration to insure even flow of materials. E. Blair. Barron's 22:4 Ag 10 '42
Organization and operations of the Bureau of industrial conservation. P. C. Cabot. Mech Eng 64:449-51 Je '42
Organization of Construction machinery branch of War production board. Roads & Sts 85:79-81 Mr '42
Packaged medicine advisory body formed. Oil Paint & Drug Rep 141:7+ Je 1 '42
Personnel being completed. Oil Paint & Drug Rep 141:3+ F 16 '42
Power branch remains in WPB reorganization. Elec W News ed 118:201 Jl 18 '42
Power branch, WPB; organization chart. Elec W News ed 117:1600-1 My 9 '42
Preference rating order P-46 amended to March 26 and June 23, 1942. Am Water Works Assn J 34:959-63, 1130-40 Je-Jl '42
Present status of research work under the auspices of the War production board. Science 96:104-5 Jl 31 '42
President approves WPB control of war power supply. Pub Util 29:764-6 Je 4 '42
Priorities division and regional offices; directory. Brick & Clay Rec 100:22 Mr '42
Production committee formed by WPB. Oil Paint & Drug Rep 142:5+ S 21 '42
Production concentration plan given to WPB committee. Oil Paint & Drug Rep 142:3+ Ag 31 '42
Production requirements plan; effect of the new regulations. Am Water Works Assn J 34:1126-9 Jl '42
Relationship of the refrigeration industry with the War production board. J. M. Fernald. Refrig Eng 43:341-2+ Je '42
Revamped War board's chiefs given full responsibility and power; with organization chart. Steel 110:23-5 Ja 26 '42; Excerpt (chart). Iron Age 149:73 Ja 29 '42
Senate finds WPB not measuring up. Comm & Fin Chr 156:108 Jl 9 '42
Senate probes rail seizures by WPB. Ry Age 113:572, 619-20 O 10-17 '42
Small business may get better break under war production board. A. P. Mills. Ind Marketing 27:35-6 F '42
Sop to labor? plan to put two vice-chairmen from unions on WPB. Business Week p110-11 S 12 '42
Supply people and the problems they face in war-time; review of the organizations responsible for materials supply. Ry Age 113:208-10 Ag 8 '42
Sweeping reorganization of WPB signaled by appointment of C. E. Wilson to new post. E. Blair. Barron's 22:4 S 21 '42
Textile, clothing and leather goods branch. Textile World 92:64 My '42
Truth about WPB's big production drive. il Am Business 12:11-13, 40-1 Ap '42
Two vice chairmen, steel chief appointed to production agency. Steel 111:37 S 28 '42
W means war; WPB reorganization. Business Week p14 Jl 11 '42
War board adds many to personnel. Oil Paint & Drug Rep 142:5+ S 14 '42
War board broadens technical consultant staff. Oil Paint & Drug Rep 141:3 Mr 9 '42
War board organization being rushed to completion. pors Oil Paint & Drug Rep 141:3, 43 Ja 26 '42
War board realignment gradually taking shape. Oil Paint & Drug Rep 141:3+ Mr 23 '42
War boards units formed and personnel appointed. Oil Paint & Drug Rep 141:3+ F 2 '42
WPB adopts daily reports system to check war production progress. Steel 110:36 F 9 '42

UNITED STATES—War production board—*Continued*

WPB adopts uniform policy for appeals from limitation orders. Steel 110:45 Je 8 '42

WPB and Army supply set-ups being revised anew for greater efficiency. E. Blair. Barron's 22:4 Je 29 '42

War production board and its industry division heads. chart pors Manuf Rec 111:36-7 F '42

WPB and OPA orders are based on standards. Ind Stand 13:229-32 S '42

WPB announces new operations plan; names new directors. Elec Eng 61:488-9 S '42

WPB appoints four to clear problems for 12 field directors. Oil Paint & Drug Rep 142:7+ Jl 6 '42

WPB bars swapping of production quotas. Oil Paint & Drug Rep 141:3+ F 23 '42

WPB construction bureau moves to New York city. Comm & Fin Chr 155:2217 Je 11 '42

WPB division directors' responsibilities explained. Oil Paint & Drug Rep 141:7+ Mr 23 '42

WPB drives for simplified lines and standards. H. Coonley. il Ind Stand 13:137-41 Je '42

WPB extends its authority over many types of industrial equipment. Steel 110:37 Je 1 '42

WPB field activities consolidated in new bureau, under J. S. Knowlson. Steel 110:24-5 F 9 '42

WPB field activities decentralized; 13 regional offices established. Steel 110:19 Mr 30 '42

WPB forbids use of metal in 360 classifications; with list of articles which may not be made of metal. Iron Age 149:105-7+ My 7 '42

WPB given power to waive anti-trust acts. Comm & Fin Chr 155:2216 Je 11 '42

WPB goes on 6-day week. Comm & Fin Chr 156:1360 O 15 '42

WPB in the field; new Bureau of field operations. Business Week p22-3 F 28 '42

WPB is shuffled around once more. Ry Age 113:63 Jl 11 '42

War production board makes many appointments. Oil Paint & Drug Rep 141:3+ Je 15 '42

WPB names Kanzler operations director; other officers. Oil Paint & Drug Rep 142:3+ S 7 '42

War production board names Tucker priority specialist; other appointments. Oil Paint & Drug Rep 141:3+ Mr 2 '42

WPB Office of operations forms new control board. Oil Paint & Drug Rep 142:3+ Ag 3 '42; Steel 111:48 Ag 3 '42

WPB $1-year men must earn $5,600; commodity specialists. Oil Paint & Drug Rep 141:3+ F 23 '42

W.P.B. personnel broadened. Oil Paint & Drug Rep 141:7+ My 25 '42

WPB personnel, who they are and where to find them. Business Week p18-19 S 12 '42

WPB posts being filled with industrial leaders. Oil Paint & Drug Rep 141:3+ Ap 13 '42

WPB power branch policies unchanged under new head. Elec W News ed 118:369 Ag 1 '42

WPB purchasing division names Hudgins to succeed MacKeachie; other appointments. Oil Paint & Drug Rep 141:3+ Mr 16 '42

WPB realigned to gear flow of materials to military strategy. Steel 111:46-8 Jl 13 '42

WPB realigned to speed raw materials to war plants; names group to supervise PRP. Oil Paint & Drug Rep 142:3+ Jl 13 '42

WPB regionalizes its administrative set-up; map. Business Week p24 My 23 '42

WPB regulations; discussion at meeting of National association of purchasing agents. Oil Paint & Drug Rep 141:37 Je 1 '42

War production board regulations relating to the purchase of scientific and laboratory equipment and supplies. R Sci Instr 13:325-32 Ag '42

WPB reorganized; new deputies appointed. Comm & Fin Chr 156:186 Jl 16 '42

WPB setting up labor requirements group. Comm & Fin Chr 156:1635 N 5 '42

WPB tightens up its controls. B. Stubblefield. Textile World 92:63-4 O '42

WPB to open 13 regional offices. Oil Paint & Drug Rep 141:3+ Mr 30 '42

WPB to plot allocations on end uses. Oil Paint & Drug Rep 141:7+ Je 8 '42

War production board widens organization of its personnel. Oil Paint & Drug Rep 141:7+ My 11 '42

WPB's P. L. M. S. R. A. Foulke. il Banking 35:19-21, 69 Ag '42

WPB's realignment. Banking 35:10+ Ag '42

WPB's transit set-up. pors Transit J 86:160-2 My '42

Washington goes to war; Donald Nelson, chairman of War production board. Trusts & Estates 74:6-7 Ja '42

Washington personnel chart on packaging. Mod Packaging 16:92 O '42

Who's who in the Washington WPB on package and container problems; chart. Sales Management 50:24-5 My 15 '42

Wilson of G-E quits post to join WPB; Production executive committee. Comm & Fin Chr 156:1186 O 1 '42; Elec W News ed 118:1016 S 26 '42

See also

Kanzler, Ernest

Carlton

Chemicals division

Drugs, cosmetics consolidated in Chemicals branch section. Oil Paint & Drug Rep 142:3+ S 21 '42

Referee board appointed to advise WPB on competing chemical processes. Chem & Met Eng 49:120 Ag '42

War Chemicals branch revamps sectional setups. Oil Paint & Drug Rep 142:3+ S 7 '42

W.P.B. Chemicals branch; with organization chart. Chem & Met Eng 49:119-20 Je '42

WPB chemicals staff comprises over 300; list of chiefs. Oil Paint & Drug Rep 141:3+ Je 29 '42

WPB industry advisory committees connected with the chemical industry. Chem & Eng N 20:1228-9 O 10 '42

Contract distribution division

Contract distribution branch to be merged. Oil Paint & Drug Rep 142:7 S 14 '42

CDD trains speed to help industry convert to defense work. il Ind Marketing 26:17-18+ D '41

Contract distribution offices of the Production division of the War production board. Oil Paint & Drug Rep 141:3+ Mr 30 '42

Contract field offices, directory. Steel 110:18-19 sec 2 Ja 12 '42

Field office directory, Division of contract distribution. Brick & Clay Rec 100:20 Mr '42

Field offices and exhibits of contract branch; directory. Automotive & Aviation Ind 86:61+ Mr 15 '42

How WPB helps the subcontractor. L. V. Spencer. il Aero Digest 41:230, 233+ O '42

OPM and contract distribution field offices merged by WPB. Oil Paint & Drug Rep 141:3+ F 9 '42

Small business given broader opportunity to aid in national effort. il Steel 110:225-7 Ja 5 '42

Want sub-contracts for war merchandise? list of field offices of Division of contract distribution. Ptr Ink 197:57, 60-2 D 26 '41

WPB discontinues contracts distribution unit. Comm & Fin Chr 156:899 S 10 '42

Controlled materials plan

Controlled materials plan, November 2, 1942. 58p U.S. War production board, Washington '42

Final materials plan. Business Week p15-16 N 7 '42

New control plan to fit output to raw materials. Steel 111:42-4 N 9 '42

WPB inaugurates new materials control plan. Oil Paint & Drug Rep 142:3+ N 9 '42; Iron Age 150:74+ N 12 '42

UNITED STATES—War production board—*Continued*

Finance bureau

New WPB finance bureau. Comm & Fin Chr 155:1344 Ap 2 '42
War board divisions are filling personnel gaps; organizes Bureau of finance. Oil Paint & Drug Rep 141:3+ Ap 6 '42
WPB aids war financing. Comm & Fin Chr 155:1951 My 21 '42
WPB finance bureau established to aid conversion efforts. Steel 110:42-3 Ap 6 '42

Food supply branch

Food supply agency puts emphasis on processing. Food Ind 14:69 Mr '42

Iron and steel branch

Iron and steel branch of WPB undergoes broad reorganization. Steel 111:48 S 7 '42
Steel shakeup; iron and steel branch reorganized. Business Week p16 F 28 '42
WPB ban on iron and steel in 400 products to accelerate conversions. Steel 110:59-60 My 11 '42
War production board; iron and steel organization chart. Iron Age 149:92 F 26 '42; Same. Steel 110:31 F 23 '42
War production board makes recommendations for increase in iron and steel production. Blast F & Steel Pl 30:888-91 Ag '42

Library

National defense libraries. C. Wanner. Special Lib 32:344-5 N '41

Production research and development office

Committee on technical development. Science 96:sup 10+ Ag 7 '42
Office of technical development. Science 96: 331-2 O 9 '42
Research agency; WPB's Office of technical development. Business Week p58-9 Ag 8 '42

Protective coatings section

Procurement of war requirements of paint, varnish, lacquer and related materials. D. L. Pierce. Paint Oil & Chem R 104:64 N 5 '42
Protective coatings section of the War production board. E. H. Bucy. Paint Oil & Chem R 104:24H+ N 5 '42; Same abr. Oil Paint & Drug Rep 142:50-1 N 2 '42
Protective coatings unit has 33 WPB men. Oil Paint & Drug Rep 142:5+ Jl 6 '42

Smaller war plants division

Plant conversion program. Paint Oil & Chem R 104:66 N 5 '42
Small war plant division headed by Holland. Oil Paint & Drug Rep 142:5+ S 21 '42

Weather bureau

Sh! the weather; Bureau shrouds data with secrecy but has evolved machinery whereby loss to business can be averted. Business Week p16-17 My 9 '42

UNITED STATES chamber of commerce. See Chamber of commerce of the United States

UNITED STATES freight company
News and views on investments. Barron's 22:20 Ja 19 '42
Stockholders to vote on debt settlement. Comm & Fin Chr 156:1159 S 28 '42

UNITED STATES gypsum company
Annual report. Comm & Fin Chr 155:1024 Mr 9 '42
Anti-trust suit cost $500,000. Comm & Fin Chr 156:1159 S 28 '42
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 F 23 '42
Remodeling ideas for wartime use; U.S. Gypsum remodel research house. il plans Arch Rec 91:59-66 Je '42

UNITED STATES housing authority (now Federal public housing authority)
Federal housing and World war II. R. G. Weintraub and R. Tough. J Land & Pub Util Econ 18:155-62 My '42
Insurance personnel serving with FWA and USHA in Washington. East Underw 43:28 F 13 '42
Local housing authority bonds. Comm & Fin Chr 154:1018 N 13 '41

UNITED STATES industrial alcohol company
Another look at your company. Mag of Wall St 70:77 My 2 '42
Income account for the years ended March 31, 1941 and 1942. Comm & Fin Chr 156: 168 Jl 13 '42
Thumbnail stock appraisal. Mag of Wall St 69:149 N 15 '41

UNITED STATES machine corporation, Lebanon, Indiana
Bonds offered. Comm & Fin Chr 156:1063 S 21 '42

UNITED STATES military academy, West Point
West Point, moulder of men. W. H. Baumer, jr. 264p bibliog(p253-5) $3 Appleton-Century '42
West Point today. K. Banning. 5th ed 312p $2.50 Funk & Wagnalls co, New York '40

UNITED STATES naval academy, Annapolis
Annapolis, gangway to the quarterdeck. W. D. Puleston. 259p $3 Appleton-Century '42

UNITED STATES of Europe (proposed)
Towards a United States of Europe; proposals for a basic structure. A. Weinfeld. 52p bibliog(p50-2) pa $1 Am. council on public affairs, Washington, D.C. '42

UNITED STATES pharmacopeia
Epitome of the Pharmacopeia of the United States and the National formulary with comments. 246p 60c Am. medical assn, 535 N. Dearborn st, Chicago '40
U.S.P. convention by-laws and constitution revision offered. Oil Paint & Drug Rep 141: 3+ Ja 12 '42
U.S.P. soft soap; comments from the trade on the proposed new monograph. Soap & San Chem 18:21-3+ Ja '42

UNITED STATES pipe and foundry company
Another look at your company. Mag of Wall St 70:130-1 My 16 '42

UNITED STATES plywood corporation
Stocks favored by special circumstances. E. A. Barnes. Mag of Wall St 70:205 My 30 '42
Thumbnail stock appraisal. Mag of Wall St 71:85 O 31 '42

UNITED STATES potters association
Annual meeting, Cleveland, Dec. 9-10. Cer Ind 38:28-30 Ja '42

UNITED STATES rubber company
Annual report. Comm & Fin Chr 155:642-3 F 10 '42
Another look. Mag of Wall St 69:710-11 Ap 4 '42
Filling export gap; U.S. Rubber to handle rayon yarn through Latin outlets. Business Week p32+ My 2 '42
H. E. Smith named president. Rubber Age 52:65 O '42
Reports net income of $1,554,841 for the first six months of 1942. Rubber Age 51:427 Ag '42
Rubber concerns converted for war. J. A. McWethy. Barron's 22:7 My 11 '42
Thumbnail stock appraisal. Mag of Wall St 71:86 O 31 '42
U.S. Rubber case. Business Week p59 Ag 1 '42
War orders, dividend outlook, etc. Comm & Fin Chr 155:1687 Ap 27 '42

UNITED STATES savings and loan league
Annual convention, 49th, Miami. Burroughs Clearing House 26:5-6 Ja '42
Savings & loan associations assets grow in 1941. Comm & Fin Chr 155:1782 My 7 '42
Savings-loan league fiftieth anniversary convention abandoned. Comm & Fin Chr 156: 104 Jl 9 '42

UNITED STATES steel corporation
Annual report. Comm & Fin Chr 155:1208-9, 1223 Mr 23 '42
Behind latest earnings reports. H. Lawrence. Barron's 22:13 N 2 '42
Big Steel's land; sold. Business Week p18+ S 26 '42

UNITED STATES steel corporation—*Continued*
Corporation goes into politics. R. Wood. Harvard Business R 21 no 1:66-7 [S] '42
Denies priority charges; new launchings by Federal shipbuilding and dry dock co. Comm & Fin Chr 155:1846-7 My 11 '42
Directors meet in Chicago, inspect new facilities for war work. Steel 111:25+ S 28 '42
Expansion progresses. Comm & Fin Chr 156:1159 S 28 '42
Foreign holdings, etc. Comm & Fin Chr 156:349 Jl 27 '42
How U.S. Steel earned its living, 1902-1941: tabulation. Steel 110:58 Mr 23 '42
List of expansions in 1941. Iron Age 149:83B Ja 8 '42
Major property additions and improvements in 1941 by subsidiaries. Comm & Fin Chr 155:161 Ja 10 '42
Market forecasting significance of market movements. L. C. Wilcoxen. Am Statis Assn J 37:343-51 S '42
Quarterly earnings report, Dec. 31, 1941 and statistics for year 1941. Comm & Fin Chr 155:512 Ja 31 '42
Report, 1941. Steel 110:22-3 F 2 '42
Retroactive wage increase directed for U.S. Steel employes by NWLB. Steel 111:43 Ag 31 '42
Special offering. Comm & Fin Chr 156:872 S 7 '42
Test for Big Steel; S.W.O.C.'s determination to be sole bargaining agent at Gary. Business Week p68-70 D 13 '41
U.S. Steel places $1,000,000,000 line with stock carriers; alters self-insurance plan. East Underw 43:1+ Mr 13 '42
Workers' melon; U.S. Steel's disbursement of retroactive pay. Business Week p90 N 7 '42
See also Carnegie-Illinois steel corporation

UNITED STATES tobacco company
Another look. Mag of Wall St 70:344 Jl 11 '42

UNITED STATES Treasury tax notes. See Bonds, Government—United States—Tax savings notes

UNITED steelworkers of America (formerly Steel workers organizing committee)
Board supports CIO in attempts to extend Little Steel ruling. Steel 111:38 S 28 '42
Collective bargaining and accelerated production. C. S. Golden. Ann Am Acad 224:96-103 N '42
C.I.O.'s U.S.A. il Business Week p59-61 My 30 '42
First constitutional convention, Cleveland, May 19-23. Monthly Labor R 55:497-500 S '42
Inland Steel signs contract with CIO. il Steel 111:43-4 Ag 10 '42
Showdown approaches in Little Steel-USA wage, union shop controversy. Steel 110:26-9 Je 22 '42
USA-CIO, formerly SWOC, to press wage demand; claims 660,000 members. Steel 110:68 My 25 '42

UNITED stockyards corporation
Consolidated earnings for years ended Oct. 31, 1938-1941. Comm & Fin Chr 154:1732 D 30 '41

UNITED traction company, Albany, New York
Reorganization plan. Comm & Fin Chr 154:1633-4 D 23 '41

UNITED typothetae of America
Annual convention, 55th, Chicago, Oct. 27-29. Inland Ptr 108:30-4 N '41
Annual meeting, 56th, Cleveland, June 19-20. Inland Ptr 109:28-9 Jl '42
New unity program fails to develop. Inland Ptr 108:53 D '41

UNITED utilities union of America
Utility labor unions organize national group. Elec W 118:1457 O 31 '42
Utility unions join; workers of electric and gas companies, 251,000 strong form new independent and flirt with telephone men. Business Week p81-2 O 31 '42

UNITS
See also
Electric units
Heat units

UNIVERSAL pictures company
Annual report. Comm & Fin Chr 155:404 Ja 27 '42

UNIVERSAL trading corporation
China repays loan with wood oil. Comm & Fin Chr 155:1347 Ap 2 '42; For Comm W 7:9-10 Ap 11 '42

UNIVERSE
Expanding universe an indeterminate problem. J. Millis. Science 96:84 Jl 24 '42
Large scale distribution of matter in the universe. F. Zwicky. bibliog il Phys R 61:489-503 Ap 1 '42
Problem of the expanding universe. E. Hubble. Science 95:212-15 F 27 '42
Universe pictured by a multiplication table; abstract. M. Davidson. Sci Am 165:334 D '41
See also
Astronomy

UNIVERSITIES. See Colleges and universities

UNIVERSITY extension
Extension of university teaching. J. Creese. 170p $1.25 Am. assn. for adult education, New York '41

UNIVERSITY presses
Place of American university presses in publishing. R. F. Lane. 160p Univ. of Chicago libraries, Chicago '42

UNIVERSITY teachers of insurance, American association of. See American association of university teachers of insurance

UNSATURATED compounds
Hydration of unsaturated compounds; acrolein and acrylic acid. D. Pressman and H. J. Lucas. Am Chem Soc J 64:1953-7 Ag '42
Hydration of unsaturated compounds; the oxonium complex constant of mesityl oxide. D. Pressman, L. Brewer and H. J. Lucas. bibliog Am Chem Soc J 64:1117-22 My '42
Hydration of unsaturated compounds; the role of the oxonium complexes in the hydration of mesityl oxide and the dehydration of diacetone alcohol. D. Pressman, L. Brewer and H. J. Lucas. Am Chem Soc J 64:1122-8 My '42
See also
Double bonds
Hydrocarbons
Hydrogenation

UNSATURATION
Unsaturation of synthetic rubberlike materials. L. E. Cheyney and E. J. Kelley. bibliog(37 references) Ind & Eng Chem 34:1323-6 N '42

UPDIKE, Daniel Berkeley, 1860-1941
Genius of Daniel Berkeley Updike is a priceless heritage. L. C. Gandy. por Inland Ptr 108:43-7 Mr '42

UPHOLSTERY
Detection of second-hand white cotton filling materials used in articles of bedding and upholstered furniture; chemical, fluorescence and hydrogen ion concentration tests. C. M. Jephcott and W. H. H. Bishop. bibliog Ind & Eng Chem Anal ed 14:400-4 My 15 '42
Fabrics of the future. il Mod Plastics 19:37-9 Ag '42
Plastics competition award to Heywood-Wakefield co.; American seating co.; woven extruded plastic upholstery. il Mod Plastics 19:88-9 N '41
Practical upholstering. J. W. Stephenson. 4th ed rev & enl 291p $8 Clifford & Lawton, 373 4th av, New York '41
Woodworking projects and upholstery. W. T. Baxter and P. G. Lackey. 251p $2.50 Van Nostrand '41
See also
Motor buses—Upholstery
Trimmings (for drapery, upholstery, etc.)

URACIL

Action of ketene on 5,5-dibromoxyhydrouracil. M. Fytelson and T. B. Johnson. bibliog Am Chem Soc J 64:306-8 F '42

URANIUM

Radio-elements in non-equilibrium systems. W. D. Urry. bibliog Am J Sci 240:426-36 Je '42

Uranium and atomic power. J. A. De Ment and H. C. Dake. 335p $5 Chemical pub. co. '41

URANYL acetate

Amperometric titrations; amperometric determination of phosphate with uranyl acetate. I. M. Kolthoff and G. Cohn. bibliog Ind & Eng Chem Anal ed 14:412-18 My 15 '42

URANYL nitrate

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

URANYL oxalate

Photosensitive complexes in the photolysis of uranyl oxalate and their dissociation constants. L. J. Heidt. bibliog J Phys Chem 46:624-30 Je '42

URANYL zinc acetate

Determination of sodium by the uranyl zinc acetate method; TAPPI tentative standard T 623 m-42. Paper Tr J 115:31-2 Ag 20 '42

URBAN-FRINGE (term)

Elements in the urban-fringe pattern. R. B. Andrews. map J Land & Pub Util Econ 18:169-83 My '42

URBAN land institute

City replanning is subject of conference. Comm & Fin Chr 154:1236 N 27 '41

To save the cities; proposal for rebuilding blighted city areas. Business Week p33-4 F 7 '42

Urban pattern. Arch Forum 76:sup88+ Mr '42

URBANISM. See Cities and towns

UREA

Advances in plastics during 1941; urea-formaldehyde resins. M. H. Bigelow. bibliog il Mod Plastics 19:63-4 Ja '42

Amino resins for coatings. R. W. Auten. Mod Plastics 19:186, 188+ N '41

Dipole moment and structure of urea and thiourea. W. D. Kumler and G. M. Fohlen. bibliog Am Chem Soc J 64:1944-8 Ag '42

Effect of urea on the electrophoretic patterns of serum proteins. D. H. Moore. il Am Chem Soc J 64:1090-2 My '42

Glyoxalines; some hydantoins resulting from the reaction between phenylglyoxal and urea and substituted ureas. H. J. Fisher, J. B. Ekeley and A. R. Ronzio. Am Chem Soc J 64:1434-6 Je '42

Hardened steel; use of synthetic urea; abstract. R. P. Dunn, W. B. F. Mackay and R. L. Dowdell. Sci Am 166:64-5 F '42

New products and processes. J. M. Crowe. Chem Ind 51:221 Ag '42

Some unsymmetrical disubstituted ureas. J. S. Buck, W. S. Ide and R. Baltzly. Am Chem Soc J 64:2233 S '42

Urea plastics. M. H. Bigelow. il Product Eng 13:93-6 F '42

Urea plastics in lighting fixtures. R. B. Barnes and C. R. Stock. il diag Mod Plastics 19:61-5, 96, 98+ F '42; Same. Illum Eng 37:89-102 F '42

Urea process for nitriding steels. R. P. Dunn, W. B. F. Mackay and R. L. Dowdell. il diags Am Soc for Metals Trans 30:776-91 S '42; Excerpts. Metals & Alloys 15:152+ Ja '42; Discussion. Am Soc for Metals Trans 30:791-2 S '42

Urea treatment of lumber. J. F. T. Berliner. bibliog il Mech Eng 64:181-6 Mr '42; Discussion. 64:678-80 S '42

UREIDES

Further study of the cyclization of ureido derivatives of unsymmetrical iminodibasic acids together with the synthesis of certain hydantoins and other related compounds. D. R. Seeger and A. MacMillan. bibliog Am Chem Soc J 64:1686-91 Jl '42

URETHANS

Acidic and basic catalysis in urethan formation. D. S. Tarbell, R. C. Mallatt and J. W. Wilson. bibliog Am Chem Soc J 64:2229-30 S '42

Biochemical specificity of sulfanilamide and of other antibacterial agents. H. McIlwain. bibliog Science 95:509-11 My 15 '42

Mechanism of P-aminobenzoic acid action and the parallel effects of ethyl carbamate (urethane); anti-sulfanilamide. F. H. Johnson. bibliog Science 95:104-5 Ja 23 '42

Urethane: absence of parallelism with the anti-sulfonamide action of p-aminobenzoic acid. G. J. Martin and C. V. Fisher. Science 95:603 Je 12 '42

UREY, Harold Clayton, 1893-

Portrait. Fortune 25:64 Ap '42

URIC acid

Studies in uric acid clearance. E. J. Stieglitz. bibliog Pub Health Rep 57:1306-10 Ag 28 '42

URINARY calculi. See Calculi, Urinary

URINE

Effect of pyridoxine on the urinary excretion of a new fluorescent substance. S. A. Singal and V. P. Sydenstricker. Science 94:545 D 5 '41

Analysis

Determination of ethyl alcohol by microdiffusion. T. Winnick. bibliog Ind & Eng Chem Anal ed 14:523-5 Je 15 '42

Evaluation of the lead hazard in the decorating department of a glass plant; relation of urinary and atmospheric lead determinations. C. A. Smucker and J. B. Kistler. J Ind Hygiene 24:1-4 Ja '42

Method for determination of ethyl alcohol for medicolegal purposes. F. L. Kozelka and C. H. Hine. bibliog diags Ind & Eng Chem Anal ed 13:905-7 D 15 '41

New colorimetric method for determining small quantities of nicotinic acid. R. P. Daroga. bibliog Soc Chem Ind J 60:263-6 O '41

Polarographic determination of nitrates in blood and urine. E. W. Scott and K. Bambach. Ind & Eng Chem Anal ed 14:136-7 F 15 '42

Rapid method for the microanalysis of lead. L. T. Fairhall and R. G. Keenan. bibliog Am Chem Soc J 63:3076-9 N '41

Rapid polarographic estimation of lead in urine. G. Reed and V. A. Gant. bibliog Ind Med 11:107-9 Mr '42

Rapid procedure for determination of carbonate. A. C. Kuyper and L. M. Jones. Ind & Eng Chem Anal ed 13:801-2 N 15 '41

Rapid turbidimetric method for determination of sulfates; comparison with gravimetric method. J. F. Treon and W. E. Crutchfield, jr. Ind & Eng Chem Anal ed 14:119-21 F 15 '42

Significance of urinary mercury. E. D. Storlazzi and H. B. Elkins. bibliog diags J Ind Hygiene 23:459-65 D '41

Steroid hormone excretion by normal and pathological individuals. K. Dobriner and others. bibliog Science 95:534-6 My 22 '42

URSINUS college, Collegeville, Pennsylvania

Pfahler hall of science

Role of science institutions in our civilization. W. D. Coolidge. Science 96:411-17 N 6 '42

URSOLIC acid

Sapogenins; the position of the carboxyl group in certain triterpene acids. P. Bilham, G. A. R. Kon and W. C. J. Ross. bibliog Chem Soc J p35-42 Ja '42

URUGUAY
Engineer looks at South America. J. C. Cosgrove. il map Explosives Eng 20:56-8 F '42

See also
Factory laws and legislation—Uruguay
Finance—Uruguay

Commerce

American trade helps Uruguay bonds. F. M. Stern. Barron's 22:19 Mr 16 '42

Economic conditions

News by countries. Published in Foreign commerce weekly

Uruguay's economy in 1941. il For Comm W 7:11-12+ Je 20 '42

Economic policy

Executive power given extensive authority to control articles of prime necessity. For Comm W 6:18-19 Ja 24 '42

USCARI formation
Amoura shale, Costa Rica. P. P. Goudkoff and W. W. Porter, 2d. bibliog map Am Assn Pet Geologists Bul 26:1647-55 O '42

USE and occupancy insurance. See Insurance, Use and occupancy

USE tax
Supreme court holds states may tax defense contracts. Comm & Fin Chr 154:1219 N 27 '41

USED cameras. See Cameras, Used

USED cars. See Automobile industry and trade—Used cars

USED machinery. See Machine tool industry—Used machines

USURY
Combating the loan shark. P. H. Sanders, ed. (Law and contemporary problems, v. 8, no. 1) 206p pa $1 School of law, Duke univ, Durham, N.C. '41

Usury or not? discounting or sale of notes. C. R. Rosenberg, jr. Burroughs Clearing House 26:29+ Ag '42

USURY laws

See also
Loans, Small—Laws and regulations

UTAH
Water and community growth in Utah. R. R. Woolley. il maps Civil Eng 12:500-2 S '42

See also
Geology—Utah
Mines and mineral resources—Utah
Taxation—Utah

Antiquities

Archaeological investigations in central Utah. J. Gillin. 50p bibliog(p49-50) pa $1.50 Peabody museum of Am. archaeology and ethnology, Harvard univ, Cambridge, Mass. '41

Industries and resources

American source of natural resins for the paint and varnish industry; fossil resins recently discovered in Utah. A. Nagelvoort. flow sheet il map Chem & Met Eng 49:80-2 O '42

UTILITIES, Public. See Public utilities

UTILITIES stock and bond corporation
SEC institutes integration proceedings. Comm & Fin Chr 155:2102 Je 1 '42

SEC permits simplification plan to become effective. Comm & Fin Chr 156:1616 N 2 '42

UTILITIES union of America, United. See United utilities union of America

UTOPIAN society of America
History of the Utopian society of America. N. Van Dalsem. 85p 25c Assn. of liberal freemasons, Los Angeles '42

UTOPIAS
Story of Utopias. L. Mumford. 315p $3 Peter Smith, 321 5th av, New York '41

V

VACATIONS
Holidays at home; people who go away not necessarily unpatriotic. Economist 143:72-3 Jl 18 '42
ODT advocates mid-week start for vacations. Comm & Fin Chr 155:2131 Je 4 '42
Paid vacations for salaried employees in Dominican Republic. Monthly Labor R 54:462 F '42
Staggered vacations in Great Britain, 1942. Monthly Labor R 54:1399 Je '42
Vacation policies in 1942. W. B. O'Connor. Monthly Labor R 55:285-6 Ag '42
Vacation policies in retail stores. Monthly Labor R 54:140-2 Ja '42
Vacations: 1942; without sacrifice of production. Business Week p56-8 My 23 '42
Victory vacations; recruiting city folk for duty in harvest fields. Business Week p75-6 Ap 25 '42
Weirton liberalizes vacation plan; pays former employes now in service. Steel 110:58 Je 1 '42

VACCINATION
Jaundice and yellow fever vaccinations in the army. J. Stafford. Science 96:sup12+ Ag 7 '42

VACCINES
Anaphylaxis in guinea pigs following sensitization with chick-embryo yellow fever vaccine and normal chick embryos. T. O. Berge and M. V. Hargett. bibliog Pub Health Rep 57:652-67 My 1 '42
Immunization with inactive virus of influenza B: comparison of antibody response with that produced by infection. M. D. Eaton, W. P. Martin and others. bibliog Pub Health Rep 57:445-51 Mr 27 '42
New vaccine against influenza. Science 94: sup10+ N 28 '41
Respiratory infections; prophylaxis with oral water-soluble antigenic substances. J. C. Sessions. bibliog Ind Med 11:373-5 Ag '42
Typhoid fever vaccine; research by Dr Jules Freund. Science 96:sup12 N 6 '42

VACUUM
Cenco pressure-vacuum unit. il R Sci Instr 12:559 N '41
Determination of oxygen, nitrogen and hydrogen in steel; a survey of the vacuum fusion method, with a note on the solid solubility of oxygen in high-purity iron. H. A. Sloman. bibliog Iron & Steel Inst J 143:298-312, pl 48 no 1 '41
Fractional vacuum fusion method for the separation of oxides and gases in steel. T. Swinden, W. W. Stevenson and G. E. Speight. Iron & Steel Inst J 143:312-20 no 1 '41
Low temperature vacuum drying apparatus. D. H. Cook. diag J Chem Educ 19:427+ S '42
Pressure regulating and indicating apparatus for vacuum systems. B. Ferguson, jr. diags Ind & Eng Chem Anal ed 14:164-5 F 15 '42
Salvaging with vacuum. il Iron Age 149:61 Mr 26 '42
Spins parts in vacuum in new testing technique; stress-coat analysis system for testing rotors. il Steel 110:99+ Ap 13 '42
Vacuum aids formation of powder metallurgical compacts. C. Hardy. diag Steel 110:84+ Ja 19 '42

See also
Electric discharges
Manometers

VACUUM cleaners
Clean foundry moulds. H. A. Forsberg. il Safety Eng 83:9-10 My '42
Plastics competition award to Eureka vacuum cleaner co. il Mod Plastics 19:96-7 N '41
Substitutes in home equipment; steel, plastics widely used for vacuum cleaners. il diags Product Eng 13:208-10 Ap '42
Sweeping in thermoplastics; achievements in injection molded vacuum cleaner housings and accessories. H. R. Husted. il Mod Plastics 19:40-3 My '42

VACUUM cleaners—*Continued*

Advertising

When dealers can't get the product; Electric vacuum cleaner co. advertises Premier's service program. E. A. Hamala. il Ptr Ink 198:102+ Ja 2 '42

VACUUM cleaning

Industrial plants; plant maintenance. il Arch Rec 91:71 Je '42

VACUUM gages

See also

Manometers

VACUUM pumps

Use of fusible alloy in vapor diffusion pumps. F. R. Abbott. diag R Sci Instr 13:187 Ap '42

Vacuum method for solids content determinations. J. G. Shelton. il Metal Finishing 39:703 D '41

Vacuum pumps for fourdrinier flat boxes. C. Vicario. diags Paper Ind 23:998-1000+ Ja '42

VACUUM tube amplifiers. See Amplifiers, Vacuum tube

VACUUM tube voltmeters. See Voltmeters, Vacuum tube

VACUUM tubes

Army-navy preferred tubes; list. Electronics 15:120+ N '42

Basic radio; the essentials of electron tubes and their circuits. J. B. Hoag. 379p $3.25 Van Nostrand '42

Characteristic curves of the triode. E. L. Chaffee. bibliog diags Inst Radio Eng Proc 30:383-95 Ag '42

Colloidal graphite electrostatic shielding. B. H. Porter. R Sci Instr 13:129-30 Mr '42

Current induced in an external circuit by electrons moving between two plane electrodes. R. Kompfner. Wireless Eng 19:52-5 F '42

Design and development of three new ultra-high-frequency transmitting tubes. C. E. Haller. bibliog il diag Inst Radio Eng Proc 30:20-6 Ja '42

Electrical concepts at extremely high frequencies. S. Ramo. diags Electronics 15:36-8 S '42

Electronic war; military and industrial uses are expected to keep radio-tube makers busier than ever. Business Week p56-8 Mr 28 '42

Electronics reference issue. il diags Electronics 15:52-126 Je '42

Excitation of the anode effect. P. L. Copeland and G. G. Carne. diags Phys R 61:635-42 My 1 '42

Field of electrets in the presence of gaseous ions. A. Gemant. bibliog Phys R 61:79-83 Ja 1 '42

Formulas for the amplification factor for triodes. B. Salzberg. diags Inst Radio Eng Proc 30:134-8 Mr '42

Frequency; characteristics of electromagnetic wave propagation undergo continuous changes and call for broader concepts. S. Ramo. diags Gen Elec R 45:559-62 O '42

Glimpse into the miracle electronic world of tomorrow; General Electric's current institutional advertising campaign. L. M. Hughes. il Sales Management 51:18-20 S 15 '42

High vacuum valve. D. B. Cowie and G. K. Green. diag R Sci Instr 12:556 N '41

Non-metal shields; colloidal graphite films. B. H. Porter. Electronics 15:33+ Ap '42

Operation of frequency converters and mixers for superheterodyne reception. E. W. Herold. bibliog (54 titles) diags Inst Radio Eng Proc 30:84-103 F '42

Reactance tubes in F-M applications. A. Hund. diags Electronics 15:68-71+ O '42

Receiver tube operation in aircraft. J. E. M. Lagasse and W. W. H. Dean. Electronics 14:56+ N '41

Transit-time phenomena in electronic tubes; a graphical method for investigation. R. Kompfner. Wireless Eng 19:2-7 Ja '42

Transversely-controlled valves with longitudinal work fields; abstract. H. E. Hollmann. Wireless Eng 19:475-6 O '42

Triodes with square mesh grids; calculating the amplification factor. C. C. Eaglesfield. diags Wireless Eng 19:447-50; Discussion (Equivalence of parallel wire and square mesh grids). G. W. O. Howe. 443-6 O '42

Tube registry; tube types registered by R.M.A. data bureau during November 1941. diags Electronics 15:94-6 Ja '42 [cont monthly]

Use of secondary electron emission to obtain trigger or relay action. A. M. Skellett. diags J Ap Phys 13:519-23 Ag '42; Abstract. Electronics 15:100+ O '42

Use of vacuum tubes as variable impedance elements. H. J. Reich. bibliog diags Inst Radio Eng Proc 30:288-93 Je '42

WPB eliminates 349 tube types from civilian use; list. Electronics 15:93 My '42

See also

Amplifiers, Vacuum tube
Cathode ray tubes
Electric rectifiers
Magnetron
Photoelectric cells
Radio detectors
Radio receiving apparatus
Radio rectifiers
Thyratron
Voltmeters, Vacuum tube
X ray tubes

Bibliography

Index of tubes described since June 1941. Electronics 14:81-4 D '41

Index of tubes published since January 1942; characteristics of industrial tubes. Electronics 15:128+ Je '42

Radio progress during 1941; electronics. Inst Radio Eng Proc 30:59-61 F '42

Control uses

Automatic control for grinding machine feed motors. il diag Electronics 15:82 N '42

Auxiliary circuit for cathode-ray photography. H. C. Roberts. diag Electronics 15:59-60+ S '42

Ballast tubes as automatic voltage regulators. S. G. Taylor. il diags Electronics 15:26-30 Ja '42

CRO delayed single sweep circuit. W. E. Gilson. diag Electronics 15:65 Mr '42

Electrical remote control. C. J. Dorr and L. N. Galton. il Electronics 15:60-4, 173-4 N '42 (to be cont)

Electronic control; new business for servicemen. W. Moody. il diags Radio N 28:34-5+ Jl '42

Electronic control of motors in textile industry; Thy-mo-trol system. A. P. Mansfield. il diags Rayon 23:557-8 S '42

Electronic control of sign blackout. diag Elec W 117:1032 Mr 21 '42

Electronic controls guard furnace atmospheres. il diag Iron Age 150:55 S 3 '42

Electronic devices for process control. T. A. Cohen. diags Chem & Met Eng 49:100-6 Mr; 98-104 Ap '42

Electronic gadgets for amateur experimenters. R. P. Turner. diags Radio N 27:22-3+ Je '42

Electronic intrusion-detection systems; burglar-alarm devices employing photoelectric, capacity and acoustic relays. il diags Electronics 15:38-43 F '42

Electronic motor control changes cutter feed in mid-cycle. il diags Product Eng 13:626-8 N '42

Electronic pyrometer control. F. B. MacLaren. diag Electronics 14:50+ N '41

Electronic switching simplifies power-line communications. J. D. Booth. il diags Electronics 15:44-7 Ag '42

Electronic voltage stabilizer for 1 to 50 kv and 20 to 500 ma. L. G. Parratt and J. W. Trischka. diags R Sci Instr 13:17-23 Ja '42; Abstract. Electronics 15:88+ My '42

Electronic welding control. H. L. Palmer; M. E. Bivens. il diags Electronics 15:36-40+ Ag; 55-8+ S; 62-7 O; 65-9+ N; 63-7+ D '42

Electroplane camera; one element of lens system designed to permit alteration of focal length without change in image size is oscillated electronically; electronic remote control of focus. il diags Electronics 15:44-7 Mr '42

VACUUM tubes—Control uses—*Continued*

Modulating electronic temperature control. W. R. Elliott. diag Heating-Piping 14:631 O '42

Power for a single-machine paper mill; St Regis paper co.; electron tube-controlled direct-current paper machine drive. il Power Pl Eng 46:51-2 Je '42

Simplified electronic thermoregulator. W. E. Gilson and H. A. Wooster. bibliog diags J Chem Educ 19:531-2 N '42

Speed regulating device outstanding on new paper-making machine; electronic amplifier in combination with an amplidyne control. il Paper Tr J 113:114+ N 27 '41

Time delay relays. H. Seymour. diags Electrician 129:142-3 Ag 7 '42

Cooling

Water and forced-air cooling of vacuum tubes. I. E. Mouromtseff. il diags Inst Radio Eng Proc 30:190-205 Ap '42

Generating action

Generation and amplification of microwaves. F. Cox. Electrician 128:73 Ja 30 '42; Abstract. Elec R (Lond) 130:115 Ja 23 '42

Retarding field oscillator. W. Alexander. bibliog Wireless Eng 19:143-7 Ap '42

Ultra high frequency technique; ultrahigh frequency generators. I. E. Mouromtseff, R. C. Retherford and J. H. Findley. bibliog diags Electronics 15:45-50 Ap '42

Industrial applications

Application of vacuum tube oscillators to inductive and dielectric heating in industry. J. P. Jordan. il diags Elec Eng 61:Trans831-4 N '42

Checking auto breaker-points by electronics. G. V. Eltgroth. il diags Electronics 15:34-6 Ap '42

Current ratings of electronic devices for intermittent service. R. E. Hellmund. bibliog Elec Eng 61:Trans 569-73 Ag '42

Electronic rectifiers applied to machine tools. il Iron Age 150:49 Ag 6 '42

Electronics at the Chemical exposition. diag Electronics 15:56+ Ja '42

Electronics in industry. S. R. Winters. il Radio N 28:26-7+ Ag '42

Gaseous tubes, and how to treat them. W. W. Watrous and D. E. Marshall. diags Electronics 15:42-6, 110-12 Ja '42

Index of tubes published since January 1942; characteristics of industrial tubes. Electronics 15:130+ Je '42

Industrial tube characteristics. diags Electronics 15:52-60 Je '42

Industrial tubes; characteristics. diags Electronics 15:86+ Jl '42

Low-frequency timing circuits. C. E. Berry. diags Electronics 15:84+ O '42

Radio frequency heating speeds plywood bonding. il Electronics 15:79 N '42

Tubes and their functions; tubes at work. bibliog diags Electronics 15:61-126 Je '42

Tubes at work. Published in monthly numbers of Electronics

Manufacture

Iron-glass seal. Gen Elec R 45:299 My '42

Low expansion alloys for glass-to-metal seals. W. E. Kingston. bibliog diags Am Soc for Metals Trans 30:47-67 Mr '42; Excerpts. Metals & Alloys 16:338+ Ag '42

Radio research and production given great impetus by war; with illustrations of manufacture of Westinghouse transmitting tubes. Steel 111:78-9 Jl 6 '42

Use of ceramics in tube construction; abstract. R. Howard. diags Electronics 14:84+ N '41

Measurement uses

Accurate dew point indication for atmospheres of heat-treating furnaces. P. R. Kalischer. il diag Steel 111:110-11 S 14 '42

Automatic blood pressure recorder. W. E. Gilson. il diags Electronics 15:54-6 My '42

Brush electronic surface analyzer. diag Electronics 15:54+ Jl '42

Continuous balance potentiometer pyrometer. R. D. Towne and D. M. Considine. il diags Electronics 15:92+ Ag '42

Development of time bases; principles of known circuits. O. S. Puckle. Electrician 128:127-8 F 13 '42

Direct-reading aircraft insulation tester. W. N. Lambert. diag Electronics 15:84+ Ap '42

Electronic micrometer. Mech Eng 64:224 Mr '42

Electronic phase-angle meter. E. L. Ginzton. il diags Electronics 15:60-1 My '42

Electronic temperature recorder contributes to aviation developments; primarily a flight recorder. il Electronics 15:114+ N '42

Electronic unit eliminates cyclic mechanism; continuous balance potentiometer pyrometer. il diags Product Eng 13:254-6 My '42

Electronic watt-hour meter tester. il Electronics 15:82+ Ap '42

Fluxgraph; machine for plotting the magnetic fields of coils. P. G. Weiller. il diag Electronics 15:52-3 My '42

How to improve machine tool performance; electric tool-pressure gage. A. R. Hand. il diag Gen Elec R 44:605-7 N '41

Improved inter-electrode capacitance meter. A. A. Barco. il diag RCA R 6:434-42 Ap '42

Instrument for measuring surface roughness; utilizes Rochelle salt piezoelectric crystal, amplifier and oscillograph; Brush surface analyzer. C. K. Gravley. il diags Electronics 15:70-3 N '42

New field intensity recorder. H. W. Kline. il diag Electronics 15:50+ Ja '42

New type of practical distortion meter; abstract. J. E. Hayes. Electronics 15:66 Ag '42

Quartz-crystal accelerometer. R. O. Fehr. il diag Gen Elec R 45:269-72 My '42; Same cond. Electrician 129:172-4 Ag 14 '42

Radio-frequency device for detecting the passage of a bullet. C. I. Bradford. il diags Inst Radio Eng Proc 29:578-83 N '41

Rectilinear rectification applied to voltage integration. S. S. Stevens. diags Electronics 15:40-1 Ja '42

Supersensitive frequency meter. W. H. Janssen and H. L. Clark. il diag Gen Elec R 45:443-5 Ag '42

Vacuum tube intensity meter. R. B. Taft. il diag R Sci Instr 13:234-5 My '42

Versatile electro-kymograph. C. Moore and H. Bloomer. il diags Electronics 15:51+ Jl '42

See also

Voltmeters, Vacuum tube

Noise

Distribution of amplitude with time in fluctuation noise. V. D. Landon. Inst Radio Eng Proc 29:50-5 F '41; Discussion. 30:425-9 S '42; Correction. 30:526 N '42

Fluctuations of space-charge-limited currents in diodes. F. C. Williams. bibliog diag Inst E E J 88 pt 3:219-29; Discussion. 229-37 D '41

Noise in radio tubes and its origin in the manufacturing processes; abstract. W. L. Krahl. Electronics 14:33 D '41

Signal/noise ratio of cathode follower. D. A. Bell. diags Wireless Eng 19:360-1 Ag '42

Ultra high frequency technique; ultrahigh frequency reception and receivers. B. Dudley. diags Electronics 15:51-3 Ap '42

Patents

Recent U.S. patents. diags Electronics 15:119-25 Ap; 112-15 My; 169-78+ Je '42

Scientific applications

Electronic counter for rapid impulses; study of the spontaneous activity of nerves. B. Wellman and K. Roeder. diags Electronics 15:74+ O '42

Note-frequency spectrometer and note-frequency spectrograph with inertialess commutator; abstract. P. Vetterlein. Wireless Eng 19:272-3 Je '42

VACUUM tubes—*Continued*

Testing

Build this modern tube tester. R. B. Bockstiegel. il diags Radio N 27:18-20 F '42

Improved inter-electrode capacitance meter. A. A. Barco. il diag RCA R 6:434-42 Ap '42

Transportation

Applying motion study principles; RCA manufacturing company. il Factory Management 100:128-9 Ag '42

Super-packs for radio tubes. il Mod Packaging 16:64-7+ S '42

Velocity modulation tubes

Ultra high frequency technique; ultrahigh frequency generators. I. E. Mouromtseff, R. C. Retherford and J. H. Findley. diags Electronics 15:49-50 Ap '42

Velocity modulating grids; investigation of their action by means of analysis and graphical methods. R. Kompfner. Wireless Eng 19:158-61 Ap '42

VALENCE

Calculation of the valence angle. W. H. Dore. diags J Chem Educ 19:29-30 Ja '42

Determination of the angle between the phenyl groups in αα-diphenylethylene, from electric dipole moment measurements. G. E. Coates and L. E. Sutton. Chem Soc J p567-70 S '42

Modern valency formulæ and the elementary student. G. N. Copley. Chem & Ind 61:196-7, 344-6 Ap 25, Ag 8 '42

Stabilization of valences by coördination. M. J. Copley, L. S. Foster and J. C. Bailar, jr. bibliog Chem R 30:227-38 Ap '42

Valence angle of the carbon atom. G. L. Gombert. bibliog il J Chem Educ 18:336-7 Jl '41; Discussion. P. F. Weatherill. 19:35 Ja '42

See also

Dielectric constants

Double bonds

VALLEYS

Drainage of leveed areas in mountainous valleys. G. R. Williams. Am Soc C E Proc 68:3-16 Ja '42; Discussion. 68:143-4, 612-14, 827-36, 1009-12, 1619-22 Ja, Ap-Je, N '42

Interglacial consequent valleys of central New York. J. S. Wold. bibliog il Am J Sci 240:617-26, pl 1 S '42

See also

Rivers

VALUATION

Depreciation and capital replenishment. F. M. Dannenberg. J Account 73:340-3 Ap '42

Depreciation problems; relationship to competitive industry. E. L. Grant. bibliog Am Soc C E Proc 67:1618-30 N '41

Plant values and their effect on costs and inventory valuations; productive replacement value. N. H. Foley. N A C A Bul 24:57-64 S 15 '42

See also

Depreciation

Electric utilities—Valuation

Gas companies—Valuation of property

Inventories

Land values

Libraries—Valuation

Mine valuation

Public utilities—Valuation

Real property—Valuation

Stocks—Valuation

VALUE

See also

Money

Prices

VALVES

Alternate materials in product design. J. J. Kanter. il Metals & Alloys 15:72-3 Ja '42

Basic principles of closed type flow-valve installations. J. E. Halferty. diags Oil & Gas J 40:40-1+ F 19 '42

Control of marine turbines. J. A. Davies. diags Marine Eng 47:110-12 My '42

Expansion valves. F. Y. Carter. diags Refrig Eng 42:369-71+ D '41

Freeing tight or so-called frozen gas valves. G. Hill. diags Am Gas J 157:23 Jl '42

Hand wheel on automatic control valve cuts block valve requirements. diags Nat Pet N 34 pt 2:R352 O 28 '42

Making your globe valves last longer. M. S. Palmer. il Power Pl Eng 46:112 N '42

New removable-type circulating valve; used to bring in Ville Platte wells. J. O. Farmer. diags Pet Eng 13:35-6 Jl '42

Operating experience with automatic-closing valves in a transmission system. D. C. Palm. diag Gas Age 89:27-8+ My 21 '42; Excerpt. Oil & Gas J 40:59 My 7 '42

Pipes, pumps, packing, and valves in the pulp and paper industry. V. F. Waters. flow charts il Paper Tr J 113:89-90+ N 27 '41

Piping: ten important pointers on valve installation and maintenance. F. C. Ernst. Heat & Ven 39:25-7 Ap '42

Pointers on how to conserve equipment; expansion valves. A. L. Topp. Heat & Ven 39:33-4 My '42

Practical application of flow valve installation principles. J. E. Halferty. diags Oil & Gas J 40:46-7, 49, 64-6 N 27 '41

Reduce valve requirements in designing wartime plants, refiners are told. M. B. Miller. diag Nat Pet N 34 pt 2:R295-6 S 30 '42

Review of power and mechanical equipment; piping, fittings and valves. il diags Power 85:965-8 Mid-D '41

Selection and application of thermostatic expansion valves for low temperature installations. R. S. Dawson. diags Refrig Eng 44:222-4 O '42

Some results of valve-gear research as applied to Diesel engines. C. Voorhies. il diags S A E J 50:358-71 Ag '42

Steam and its place in making paper; piping and accessories are important. R. G. Edwards. Pulp & Pa of Can 42:779-80 D '41

TVA's Watts Bar steam plant augments hydro power for war production; high pressure steam piping. H. J. Petersen. il diags Heating-Piping 14:283-6 My '42

Valve position indicator. il Engineer 173:256 Mr 20 '42

Valves must be selected and installed with care. diags Oil & Gas J 40:174-6 Ap 30 '42

Valves; their selection and application. F. E. Davenport. il Pet Eng 13:62+ D '41

See also

Automobile engines—Valves

Locomotives—Valves and valve gear

Safety valves

Electric control

Burlington charts the way for motor-operated valves. S. D. Barr. il Power 85:900-2 D '41

General controls co. type PV-3 valve. il Refrig Eng 43:98 F '42

Magnetic control

Three-way magnetic valve. il diags Gas Age 90:40+ Ag 13 '42

VALVES, Electronic. See Vacuum tubes

VALVES, Hydraulic

Eliminating surge troubles on pump discharge lines. D. M. Radcliffe. diags Water Works & Sewerage 89:sup55-6 Je '42

Elimination of check valve slam. H. K. Palmer. diags Water Works & Sewerage 89:sup58-9 Je '42

42-inch valves welded. il Steel 109:70 N 17 '41

Gate valves; their care and maintenance. R. W. Esty. il Water Works & Sewerage 89:238-40 Je '42

Pumps, valves and fittings all may constitute bottlenecks; handling fluids for processing operations especially in manufacture of rayon and synthetic yarns. il Rayon 23:297-300 My '42

Resistance of valves and fittings to flow of water. chart Water Works & Sewerage 89:sup46-7 Je '42

Ridding the distribution system of pumping station noises. S. M. Dunn. Am Water Works Assn J 34:221-8 F '42

VALVES, Hydraulic—*Continued*

Valve closure assured if penstock fails; Pacific gas & electric company hydro plants. E. A. Crellin. il diag Elec W 118:928-9 S 19 '42

Valve control simplifies casting machine. J. J. Rose. il diags Machine Design 14:110-12 Ap '42

See also
Gates, Hydraulic

Electric control

Valve closure assured if penstock fails; Pacific gas & electric company hydro plants. E. A. Crellin. il diag Elec W 118:928-9 S 19 '42

VALVES, Radio. See Vacuum tubes

VANADIUM

Ferro-alloy metals, 1941. F. Betz, jr. Eng & Min J 143:48 F '42

Influence of vanadium on the scaling of steel; abstract. H. Cornelius and W. Bungardt. Engineer 172:sup[Metallurgist] 35-6 O 31 '41

Kinetics of the trivalent vanadium-oxygen reaction. J. B. Ramsey, R. Sugimoto and H. DeVorkin. bibliog Am Chem Soc J 63:3480-6 D '41

New method to recover vanadium. Barron's 22:5 S 14 '42

Progress reports, Metallurgical division; dry differential grinding tests of carnotite ores. S. M. Shelton and A. L. Engel. bibliog U S Bur Mines Rep of Invest 3636:1-32 '42

Progress reports, Metallurgical division; ore-testing studies of the ore-dressing section, fiscal year, 1941. A. L. Engel and S. M. Shelton. flow sheet U S Bur Mines Rep of Invest 3628:17-21 '42

Source of vanadium found in western phosphate rock; report issued by the American chemical society. Steel 111:94 S 14 '42

Vanadium extracted by a new process from Idaho phosphate rock; abstract. J. P. Morgan. Science 96:sup8 S 11 '42

Vanadium from Idaho. Oil Paint & Drug Rep 142:37-8 S 21 '42

Vanadium in cast iron; abstract. E. Piwowarsky. Iron Age 149:71 Mr 26 '42

Vanadium pig iron from titaniferous magnetite. F. E. Lathe. Eng & Min J 143:77 Ap '42

Vanadium, tungsten and chromium, 1941. il Min Cong J 28:50-2 F '42

Vanadium's trail; Colorado. il Business Week p40-1 Ja 3 '42

Analysis

Ozone as an analytical reagent; determination of vanadium, cerium, and manganese. H. H. Willard and L. L. Merritt, jr. bibliog diag Ind & Eng Chem Anal ed 14:486-9 Je 15 '42

VANADIUM oxides

Rate of reduction of vanadium pentoxide in concentrated acid solutions; reduction of vanadium pentoxide by arsenious acid, oxalic acid, formaldehyde and ethyl alcohol. M. Bobtelsky and A. Glasner. bibliog Am Chem Soc J 64:1462-9 Je '42

Vanadium from phosphate rock. Eng & Min J 143:61 O '42

VANADIUM pentoxide. See Vanadium oxides

VANADIUM steel

Influence of vanadium on the scaling of steel; abstract. H. Cornelius and W. Bungardt. Engineer 172:sup[Metallurgist] 35-6 O 31 '41

Manufacture of bullet-proof steel. A. G. Arend. diags Electrician 129:119-21 Jl 31 '42

Vanadium alloys; properties and other information. Product Eng 13:345-6 Je '42

VANCOUVER, British Columbia

Lighting

Blackouts cause little disruption in Vancouver; entire section of British Columbia included in blanket order. Elec W 117:1190 Ap 4 '42

Water supply

Greater Vancouver water district mutual aid plan. W. Powell. Am Water Works Assn J 34:1588-90 O '42

VANDALISM coverage. See Insurance, Fire—Policies—Extended coverage endorsements; Insurance, Riot and civil commotion—Vandalism coverage

VAN DEN BROEK, John Abraham, 1885-
Sketch. por(p50) Civil Eng 12:49 Ja '42

VANDERBILT, Cornelius, 1794-1877
Commodore Vanderbilt; an epic of the steam age. W. J. Lane. 357p bibliog(p326-57) $3.75 Knopf '42

VAN DER WAALS equation
See also
Equation of state

VAN DER WAALS forces

Centers of van der Waals attraction. F. London. bibliog J Phys Chem 46:305-16 F '42

Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

Van der Waals sorption of chlorine by silica gel at low temperatures. L. H. Reyerson and C. Bemmels. J Phys Chem 46:31-5 Ja '42

Van der Waals sorption of gaseous hydrogen chloride, hydrogen bromide, and hydrogen iodide by silica gel. L. H. Reyerson and C. Bemmels. J Phys Chem 46:35-42 Ja '42

VAN GORDER, George, 1895-
New president of the National wholesale druggists association. Oil Paint & Drug Rep 142:45 O 5 '42

VANILLA

Mexico's vanilla production. L. D. Mallory and K. Walter. il For Comm W 7:8-10+ Je 20 '42

Vanilla-bean boom makes Tahiti rich. For Comm W 8:28 Jl 11 '42

Vanilla in French Oceania. For Comm W 8:27 Jl 18 '42

Prices

Vanilla bean prices set by OPA. Oil Paint & Drug Rep 142:5+ O 5 '42

VANILLIN

Studies on lignin and related compounds; aromatic aldehydes from plant materials. R. H. J. Creighton, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3049-52 N '41

Vanillin from lignin materials. I. A. Pearl. bibliog Am Chem Soc J 64:1429-31 Je '42

VANILLOYL methyl ketone
Studies on lignin and related compounds; stability of lignin building units and ethanol lignin fractions toward ethanolic hydrogen chloride. K. A. West, W. L. Hawkins and H. Hibbert. Am Chem Soc J 63:3038-41 N '41

VAN RAALTE company
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 F 23 '42

VAN SWERINGEN system
See also
Chesapeake and Ohio railway

VAN WISEMAN, Jerome
Explains dismissal from N.A.I.A.; abstracts. por Spectator (Property ed) 7:9 Ap 30 '42; East Underw 43:20 My 1 '42; Nat Underw 46:4 Ap 30 '42

VAPOR lock. See Airplane engines—Fuel feeding

VAPOR pressure

Activity coefficients of some bivalent metal nitrates in aqueous solution at 25° from isopiestic vapor pressure measurements. R. A. Robinson, J. M. Wilson and H. S. Ayling. bibliog Am Chem Soc J 64:1469-71 Je '42

Association of benzoic acid in benzene. F. T. Wall and P. E. Rouse, jr. Am Chem Soc J 63:3002-5 N '41

VAPOR pressure—*Continued*

Correlating gas solubilities and partial pressure data. D. F. Othmer and R. E. White. bibliog Ind & Eng Chem 34:952-9 Ag '42

Correlating vapor pressure and latent heat data; use of critical constants. D. F. Othmer. Ind & Eng Chem 34:1072-8 S '42

p-Cymene studies; vapor pressure of *p*-cymene, some of its derivatives and related compounds. K. A. Kobe and others. bibliog diag Am Chem Soc J 63:3251-2 D '41

Densities of some aliphatic amines. E. Swift, jr. bibliog Am Chem Soc J 64:115-16 Ja '42

Determination of fumigants; composition of heavy coal-tar naphtha. N. F. Sarsfield. diag Soc Chem Ind J 61:1-6 Ja '42

Front-end volatility of gasoline blends. N. B. Haskell and D. K. Beavon. Ind & Eng Chem 34:167-70 F '42

Gas imperfections determined from the heat of vaporization and vapor pressure. C. F. Curtiss and J. O. Hirschfelder. bibliog J Chem Phys 10:491-6 Ag '42

Heat capacity and entropy, heats of fusion and vaporization and the vapor pressures of isopentane. S. C. Schumann, J. G. Aston and M. Sagenkahn. bibliog Am Chem Soc J 64:1039-43 My '42

Heat capacity and vapor pressure hysteresis in liquid isopentane; isomers due to hindered rotation. J. G. Aston and S. C. Schumann. bibliog Am Chem Soc J 64:1034-8 My '42

Heat capacity, entropy, heats of fusion and vaporization and vapor pressure of fluorotrichloromethane. D. W. Osborne and others. bibliog Am Chem Soc J 63:3496-9 D '41

Heat capacity, entropy, heats of fusion, transition, and vaporization and vapor pressures of methyl mercaptan. H. Russell, jr., D. W. Osborne and D. M. Yost. bibliog Am Chem Soc J 64:165-9 Ja '42

Heat capacity, heats of fusion and vaporization, vapor pressure and entropy of dimethyl sulfide. D. W. Osborne, R. N. Doescher and D. M. Yost. bibliog Am Chem Soc J 64:169-72 Ja '42

Mathematical correlation of the paraffins. P. Buthod and others. Oil & Gas J 41:38 O 1 '42

Micromethod for identification of volatile liquids; vapor pressure, boiling point, and olefin content of cyclobutane and *cis*-2-butene. S. W. Benson. bibliog diag Ind & Eng Chem Anal ed 14:189-91 F 15 '42

Nomographic charts for vapor pressure; useful in high-voltage testing of gaps, bushings, insulators, and coupling capacitors. K. D. Beardsley. Gen Elec R 45:281-3 My '42

Partial pressure of hydrogen chloride from its solutions in β,β′-dichloroethyl ether and in anisole and the calculation of the heat and entropy of solution. S. J. O'Brien. bibliog Am Chem Soc J 64:951-3 Ap '42

Phase equilibria in hydrocarbon systems; thermodynamic properties of *n*-pentane. B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:730-7 Je '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Pressure-temperature relations of petroleum fractions. W. L. Nelson and W. Haltenberger, jr. bibliog Oil & Gas J 41:40 Je 11; 40-2 Je 18 '42

Reid vapour pressure of alcohol blends. S. J. W. Pleeth. Inst Pet J 28:113-14 Je '42; Abstract. Chem & Met Eng 49:222 S '42

Study of the electric hygrometer. R. N. Evans and J. E. Davenport. bibliog diags Ind & Eng Chem Anal ed 14:507-10 Je 15 '42

System ferric chloride-sodium chloride. H. F. Johnstone, H. C. Weingartner and W. E. Winsche. bibliog Am Chem Soc J 64:241-4 F '42

Thermoelectric method of measuring vapor pressure. R. R. Roepke. bibliog J Phys Chem 46:359-66 Mr '42

Vapor-pressure chart for volatile hydrocarbons. R. V. Smith. bibliog(48 titles) U S Bur Mines Information Circ 7215:1-10 '42

Vapor pressure nomographs for aqueous sodium hydroxide solutions. D. S. Davis. Ind & Eng Chem 34:1131-2 S '42

Vapor pressure of ice from 32 to -280 F. J. A. Goff. bibliog Heating-Piping 14:121-4 F '42

Vapor pressure-temperature relations and heats of solution and dilution of the binary system manganous nitrate-water. W. W. Ewing, C. F. Glick and H. E. Rasmussen. Am Chem Soc J 64:1445-9 Je '42

Vapor pressures and critical constants of isobutene. J. A. Beattie, H. G. Ingersoll and W. H. Stockmayer. bibliog Am Chem Soc J 64:546-8 Mr '42

Vapor pressures of aqueous solutions at high temperatures. N. B. Keevil. bibliog Am Chem Soc J 64:841-50 Ap '42

Vapor pressures of indene, styrene and dicyclopentadiene. P. E. Burchfield. Am Chem Soc J 64:2501 O '42

Vapor pressures of monatomic vapors. R. W. Ditchburn and J. C. Gilmour. diags Rs Mod Phys 13:310-27 bibliog(p326-7) O '41

Vapor pressures of the tritium liquid hydrogens; dependence of hydrogen vapor pressure on mass of the molecule. W. F. Libby and C. A. Barter. J Chem Phys 10:184-6 Mr '42

Bibliography

Bibliography of nomographs on vapor pressure. R. Myllynen and D. S. Davis, comps. News Ed 19:1490+ D 25 '41

VAPORIZATION

Critical states of two-component paraffin systems. F. D. Mayfield. bibliog Ind & Eng Chem 34:843-9 Jl '42

Entropy of vaporization and density of liquids at their boiling points. J. H. Simons and R. K. Smith. bibliog J Phys Chem 46:380-7 Mr '42

Phase equilibria at high temperatures. R. R. White and G. G. Brown. flow diag bibliog diags Ind & Eng Chem 34:1162-74 O '42; Same. Nat Pet N 34 pt 2:R374, R376-8, R380-1, R432-5 O 28, N 25 '42

V-I relation for vaporizing molybdenum. F. T. Worrell. bibliog diag Phys R 61:520-4 Ap 1 '42

See also
Evaporation

VAPORIZATION, Heat of

Accommodation coefficient of mercury on platinum and the heat of vaporization of mercury. L. B. Thomas and F. G. Olmer. diags Am Chem Soc J 64:2190-5 S '42

Correlating vapor pressure and latent heat data; use of critical constants. D. F. Othmer. Ind & Eng Chem 34:1072-8 S '42

Gas imperfections determined from the heat of vaporization and vapor pressure. C. F. Curtiss and J. O. Hirschfelder. bibliog J Chem Phys 10:491-6 Ag '42

Heat capacity and entropy, heats of fusion and vaporization and the vapor pressures of isopentane. S. C. Schumann, J. G. Aston and M. Sagenkahn. bibliog Am Chem Soc J 64:1039-43 My '42

See also
Trouton's law

VAPORIZERS

Quantitative vaporizer. W. F. Wells. diag Science 95:609-10 Je 12 '42

VAPORS

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Adsorption studies of vapors in carbon packed towers. H. C. Engel and J. Coull. bibliog Am Inst Chem Eng Trans 38:947-64; Discussion. 964-5 O '42

Determining liquid and vapor densities in closed systems; a precise method. G. H. Wagner, G. C. Bailey and W. G. Eversole. diag Ind & Eng Chem Anal ed 14:129-31 F 15 '42

VAPORS—*Continued*

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Heat capacity of organic vapors; a comparison of flow calorimeters. J. B. Montgomery and T. De Vries. diags Am Chem Soc J 64:2372-5 O '42

Heat capacity of organic vapors; benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane and cyclohexene. J. B. Montgomery and T. De Vries. bibliog Am Chem Soc J 64:2375-7 O '42

Heat transfer of condensing organic vapors. A. H. Cooper, R. H. Morrison and H. E. Henderson. bibliog(31 references) diag Ind & Eng Chem 34:79-84 Ja '42

Nitromethane; the heat capacity of the gas, the vapor density, and the barrier to internal rotation. K. S. Pitzer and W. D. Gwinn. bibliog Am Chem Soc J 63:3313-16 D '41

Pressure drop in the flow of compressible fluids. W. E. Lobo, L. Friend and G. T. Skaperdas. Ind & Eng Chem 34:821-8 Jl '42

Pressure-temperature chart for vapors. M. Hirsch. bibliog Ind & Eng Chem 34:174-82 F '42

Recovery of vapors, with special reference to volatile solvents. C. S. Robinson. 273p $4.75 Reinhold pub. corp. '42

Study of the vapor of propionic acid at 45, 50, 55, 60 and 65°. F. H. MacDougall. Am Chem Soc J 63:3420-4 D '41

Vapor-liquid equilibria of nonideal solutions; utilization of theoretical methods to extend data. H. C. Carlson and A. P. Colburn. bibliog il Ind & Eng Chem 34:581-9 My '42

Vapor-liquid equilibria of the system acetone—acetic acid—water. R. York, jr. and R. C. Holmes. bibliog diags Ind & Eng Chem 34:345-50 Mr '42

Vapor-liquid equilibrium data on ethyl alcohol-water and on isopropyl alcohol-water. W. M. Langdon and D. B. Keyes. bibliog diags Ind & Eng Chem 34:938-42 Ag '42

See also

Adsorption
Condensation
Condensers
Electric precipitation
Equation of state
Evaporation
Fumes
Fumigants
Gases
Solvents
Steam
Steam flow
Vapor pressure
Water vapor

VARGAS, Getulio Dornelles, 1883-

Brazil; the new ally. por Fortune 26:104-9+ N '42

VARIABLE star observers, American association of. See American association of variable star observers

VARIABLE stars. See Stars, Variable

VARIATION (statistics)

Linear regression when the standard deviations of arrays are not all equal. G. A. Baker. Am Statis Assn J 36:500-6 D '41

Use of inversions as a test of random order. A. C. Rosander. Am Statis Assn J 37:352-8 S '42

See also

Correlation (statistics)
Seasonal variation (statistics)

VARIETY stores. See Five- and ten-cent stores

VARITYPER. See Typewriters

VARNISH, Insulating

Effect of cutting oils on insulating varnishes and chlorinated rubber paint. Engineering 152:319-20 O 17 '41

High-temperature varnish, made by Sterling varnish co. Gen Elec R 45:363-4 Je '42

Synthetic resin varnish; advantages for coil insulation. L. E. Frost and G. L. Moses. il Product Eng 13:144-6 Mr '42

VARNISH and varnishing

American source of natural resins for the paint and varnish industry; fossil resins recently discovered in Utah. A. Nagelvoort. flow sheet il map Chem & Met Eng 49:80-2 O '42

Cloud point of varnish resins in drying oils. P. O. Powers. bibliog Ind & Eng Chem Anal ed 14:387-91 My 15 '42

Dehydrated castor oil; its history, chemistry, manufacture, and uses. H. C. Worsdall. bibliog il Can Chem & Process Ind 26:460-3 Ag '42

Effect of pigments on oleoresinous film structure. R. C. Ernst and G. R. Eudaley. bibliog Paint Oil & Chem R 104:102-3, 114-15, 118-19 N 5; 18, 20 N 19 '42

Gas as varnishmaking fuel. C. G. Segeler. Oil Paint & Drug Rep 142:47, 47A O 26 '42

Gloss retention and wood protection merits of phenolic resin-soybean oil varnishes. A. J. Lewis. Paint Oil & Chem R 104:7-8 Ja 15 '42

Maleic resins in varnishes; abstract. H. A. Hampton. Paint Oil & Chem R 104:7-8 Ag 13 '42

Modern filtration practice for the varnish, resin and lacquer maker. A. C. Kracklauer. Paint Oil & Chem R 104:7-8 F 26 '42

Naftolen, its use in plastics and coatings. L. Bornstein and F. Rostler. il Mod Plastics 19:72-4+ Ap '42

Ordnance department paint developments. E. T. McBride. Chem & Eng N 20:850-1 Jl 10 '42; Same. Metal Finishing 40:563+ O '42

Progress in the paint industry during 1941. Paint Oil & Chem R 104:16+ Mr 12; 11-12 Mr 26; 7-10 Ap 9 '42

Protective and decorative coatings. J. J. Mattiello, ed. v2 658p $6 Wiley '42

Protective coatings in wartime. L. J. Reizenstein. Paint Oil & Chem R 104:11-12, 29-30 Je 4 '42

Solidified oils; new material for paints and varnishes. L. Auer. Oil Paint & Drug Rep 141:7+ F 2 '42

Synthetics in the varnish industry; use of hydrogenated solvents. A. E. Williams. Chem Age (Lond) 47:33-5 Jl 11 '42

Varnish cooking with radiant burners. il Chem & Met Eng 49:94 Ap '42

Varnish viscosity temperature curves; abstract. L. A. Steiner. Paint Oil & Chem R 103:10 D 4 '41

See also

Drying oils
Films
Lacquer and lacquering
Rosin
Shellac
Tung oil

Testing

Testing of varnishes for use in conjunction with anti-scatter fabrics. H. M. Llewellyn. Soc Chem Ind J 61:60-3 Ap '42

VARVES

Menacing long series of droughts; solar electron theory. H. P. Gillette. Roads & Sts 84:48+ N '41; Same. Water Works & Sewerage 88:571-7 D '41

VASCULAR system

Problems of aging and of vascular diseases. H. S. Simms. Science 95:183-6 F 20 '42

See also

Cardiovascular system

Diseases

Vascular sclerosis, with special reference to arteriosclerosis, pathology, pathogenesis, etiology, diagnosis, prognosis, treatment. E. Moschcowitz. 178p $3.75 Oxford '42

VASES

Commercial art glass; original modern Czecho-Slovakian art creations. L. Moser. il Glass Ind 23:101-3 Mr '42

Plastics competition award to Swedlow aeroplastics corp. il Mod Plastics 19:128-9 N '41

VÁSQUEZ de Espinosa, Antonio

Publication of a lost book. Science 96:sup14 S 4 '42

VAT dyes. See Dyes and dyeing—Vat dyes

VAULTS

All-America package competition; award to General vault products co.; metal protective equipment. il Mod Packaging 15:176-7 Ap '42

VEATCH, Arthur Clifford, 1878-1938
Memorial. W. B. Heroy. por(pl) Geol Soc Proc 1941:201-9 bibliog(p205-9) Mr '42

VECTOGRAPHS
Have you heterophoria? eye exercises using vectographs can improve depth perception. E. W. Melson. il Sci Am 166:227-8 My '42

VECTOR analysis
A.c. vectors; significance of the operator j. A. G. Powell. Elec R (Lond) 129:694 D 19 '41
Current-transformer performance based on admittance-vector locus. A. C. Schwager. bibliog diags Elec Eng 61:Trans 26-30 Ja '42
Engineering mathematics; theory of complex numbers. R. Feinberg. diags Electrician 128:558-9 Je 5 '42
How to use vector diagrams. P. Swain. diags Power 85:916 D '41
Symmetrical components; analysis by vector notation. A. G. Powell. Elec R (Lond) 131:107-8 Jl 24 '42
Symmetrical components; unbalanced three-phase problems simplified. Elec R (Lond) 130:45-6 Ja 9 '42
Universal joints; how to determine loads by vectorial analysis. L. D. Hagenbook and J. H. Holstein. il diags Product Eng 13:334-6 Je '42
Vector computations; reference sheet. P. W. Klipsch. Electronics 14:41-2 D '41
Vector equations from laboratory data. E. A. Hertzler. Elec Eng 61:107-9 F '42
Vector methods of flutter analysis. W. M. Bleakney and J. D. Hamm. bibliog J Aeronautical Sci 9:439-51 O '42

VEGETABLE gardening
Cultivating the home vegetable garden. il Consumers' Research Bul 9:21-2 My '42
Food garden. E. Blair. 148p $2 Macmillan '42
Gardens for victory. J. M. Putnam and L. C. Cosper. 221p $2.50 Harcourt '42
Home gardening is necessary for full vegetable production. W. B. Mack. Consumers' Research Bul 9:11-13 Ap '42
How to grow food for your family. S. R. Ogden. 139p $2 A. S. Barnes and co, New York '42
25 vegetables anyone can grow. A. R. Robbins. 219p $2.25 Crowell '42

VEGETABLE ivory. See Ivory nut

VEGETABLES
Changes occurring during the blanching of vegetables. W. B. Adam, G. Horner and J. Stanworth. Soc Chem Ind J 61:96-9 Je '42
Incidence of coliform bacteria on fresh vegetables and efficiency of lactose broth, brilliant green bile 2 per cent and formate ricinoleate broth as presumptive media for the coliform group; abstract. G. G. Slocum and W. A. Boyles. Am Water Works Assn J 34:1467-8 S '42
Pan American trade, with special reference to fruits and vegetables. J. W. Lloyd. 354p bibliog(p336-8) $2.25 The interstate, Danville, Ill. '42
Product varietal studies from a plant breeder's point of view. B. D. Drain. il Refrig Eng 43:221-2+ Ap '42
Ready-to-use vegetables score hit in New England. Sales Management 50:49 F 15 '42
Treatment of vegetable cannery wastes. N. H. Sanborn. bibliog il Ind & Eng Chem 34:911-15 Ag '42
Vegetable budget for one person for a year; table. M. E. Foley. Consumers' Research Bul 9:17 Mr '42
Vitamin-A value of carotene in vegetables. H. C. H. Graves. bibliog Chem & Ind 61:8-10 Ja 3 '42
See also
Canned food
Drying (fruits and vegetables)
also names of vegetables, e.g. Beets and beet sugar; Corn; Potatoes; Tomatoes

Analysis

Determination of thiamine in vegetables. J. C. Moyer and D. K. Tressler. bibliog Ind & Eng Chem Anal ed 14:788-90 O 15 '42

Preservation

See also
Canning and preserving
Vegetables, Dried
Vegetables, Frozen

VEGETABLES, Dried
Dehydration methods used in California. E. M. Mrak. il diag Food Ind 14:50-2 Ag '42
Dehydration musts; abstract. W. V. Cruess. Food Ind 14:73 O '42
Drying of vegetables; abstract and discussion. R. J. L. Allen. Chem & Ind 61:343 Ag 8 '42
Food for fighters; new dehydration process. A. R. Boone. il Sci Am 167:20-2 Jl '42
How Canada dehydrates foods. H. C. Aitken. diags Food Ind 14:41-2 My '42
How Washburn-Wilson is cashing the demand for dried legumes. J. S. Nelson. il Sales Management 51:42-4 O 20 '42
Lend-lease purchases of dehydrated vegetables during first 18 months. For Comm W 9:28 N 7 '42
Pointers on dehydration given at conference at University of California. Food Ind 14:74-5 Je '42
Powdered vegetables for babies. Science 96: sup10 Ag 28 '42
Simple tests reveal improper blanching. B. E. Proctor. il Food Ind 14:51-2 N '42
Tunnel dehydraters and their use in vegetable dehydration. W. B. Van Arsdel. bibliog diags Food Ind 14:43-6+ O; 47-50+ N '42
Vegetable dehydrating plants big users of gas. A. R. Carter. Am Gas J 156:12 Ap '42
What's known today about dehydrating vegetables. W. V. Cruess and E. M. Mrak. bibliog il diags Food Ind 14:57-60 Ja; 41-3+ F; 48-9+ Mr; 57-9+ Ap; 43-5+ My '42
See also
Turnips, Dried

VEGETABLES, Frozen
Determining the maturity of frozen vegetables; a rapid objective method for whole-kernel corn. F. A. Lee, D. DeFelice and R. R. Jenkins. Ind & Eng Chem Anal ed 14:240-1 Mr 15 '42
Farm-fresh foods in quick-freeze packs. il Mod Packaging 16:81-3+ O '42
Product varietal studies from a plant breeder's point of view. B. D. Drain. il Refrig Eng 43:221-2+ Ap '42
Quick freezing offers wartime economies. F. App. Food Ind 14:48-50+ Ag '42
See also
Broccoli, Frozen
Lima beans, Frozen
Peas, Frozen

VEHICLES
Dobbin's day. il Business Week p20+ Je 6 '42
See also
Automobiles
Cars
Motor buses
Motor trucks
Motor vehicles
Street cars
Trailers
Trolley buses
Trucks

Suspension

Theory of vehicle suspensions. P. E. Mercier. diags J Ap Phys 13:484-95 Ag '42; Same cond. Automobile Eng 32:405-10 O '42; Correction. 14:51-2 Ja '43

VEHICULAR tunnels. See Tunnels and tunneling—Vehicular tunnels

VEINS (ore). See Ore deposits

VELOCITY
Distribution of velocity within a nest of tubes. R. P. Wallis. il diags Engineering 152:361-3, 401-3 N 7, 21 '41
Optimum time of delay for parachute opening. W. A. Wildhack. bibliog J Aeronautical Sci 9:293-301 Je '42
Sag measurement by means of a stop watch. R. A. Tynes. diag Instruments 15:88-9 Mr '42
See also
Chemical reaction—Velocity
Electrons—Velocity
Falling bodies
Sound—Velocity

VELON. See Saran

VELVET
Recommended commercial standard for cotton and rayon velvet. Rayon 23:134-5 Mr '42

VELVETEEN
Rising fashion for cotton piles. J. Black. il Textile World 92:78-9 O '42

VENDING machines
All-America package competition; award to Burgess battery co.; theft-proof vendor. il Mod Packaging 15:226-7 Ap '42

VENEERS and veneering
Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

See also
Plywood

VENEERS and veneering (stone)
Conserving metals with stone and glass veneers; building facings, with time-saver standards. F. G. Lopez, jr. diags Arch Rec 90:92-4 D '41

VENEREAL diseases
Conscripts rejected because of venereal disease; Works projects administration workers will assist in rehabilitation. Science 94:sup 10+ D 5 '41
Distribution of health services in the structure of state government; venereal disease control by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:553-78 Ap 17 '42
Educational social hygiene; extension to industrial employees for the control of gonorrhea and syphilis. T. A. Storey. Ind Med 11:411-14 S '42
Plain words about venereal diseases. T. Parran and R. A. Vonderlehr. 226p $2 Reynal & Hitchcock, New York '41
Protection of workers in civilian defense industries. J. G. Townsend. Ind Med 11:12-14 Ja '42
Social hygiene vital to all-out war effort; abstract. R. L. Wilbur. Nat Safety N 45:85 Ja '42
Summary of state legislation requiring premarital and prenatal examination for venereal diseases. A. E. Bowden. rev ed 24p bibliog(p24) pa 25c Am. social hygiene assn, 1790 Broadway, New York '41
Thieves of health. J. L. Stenek. il Nat Safety N 45:34, 38 F '42
Venereal disease control in defense. E. Ness. Ann Am Acad 220:89-93 Mr '42
Venereal disease slows defense. W. S. Knudsen. il Safety Eng 82:39-40 N '41

See also
Syphilis

VENETIAN blinds. See Blinds

VENEZUELA
Expedition of the New York zoological society. Science 95:450-1 My 1 '42

See also
Geology—Venezuela
Gold mines and mining—Venezuela
Mines and mineral resources—Venezuela
Petroleum industry and trade—Venezuela
Railroads—Venezuela
Unemployment—Venezuela

Commerce

Foreign trade of Venezuela for 1939 and 1940. 10p Pan American union, Washington, D.C. '42

Economic conditions

News by countries (cont). For Comm W 5:36-7 N 22 '41
War's effect on Venezuela's economy. il For Comm W 9:4-7+ O 24 '42

VENOM
Electrophoresis of crotoxin. Choh Hao Li and H. Fraenkel-Conrat. il Am Chem Soc J 64:1586-8 Jl '42

VENTIFACTS
Wind-polished rocks in the Trans-Pecos region, Texas and New Mexico. K. Bryan and C. C. Albritton, jr. bibliog map Geol Soc Bul 53:1403-16, pl 1 O '42
Wind-worn stones in glacial deposits of the Middle West. L. R. Thiesmeyer. bibliog Science 96:242-4 S 11 '42

VENTILATING pipes. See Air pipes

VENTILATION
Air discharge from narrow slots. F. F. Stevenson. il Heating-Piping 13:308-10, 368-70 My-Je '41; Discussion. 13:558-60, 690-2, 14:23-4 S, N '41, Ja '42
Air flow measurement by the dilution method. T. Hatch and R. H. Walpole, jr. diags Heat & Ven 39:24-6 Je '42
Air openings to furnace rooms. C. W. Pollock. Gas Age 90:27-8 Ag 13 '42
Attic temperatures, ventilation and heat losses. P. D. Close. diags Heating-Piping 14:694-8 N '42
Controlled atmosphere storage for Jonathan apples; storing in four levels of carbon dioxide concentration by restricted ventilation. H. H. Plagge. bibliog il Refrig Eng 43:215-20 Ap '42
Cylindrical areas in heating and ventilating processes. W. F. Schaphorst. Heat & Ven 39:27 Mr '42
Effect of vanes in reducing pressure loss in elbows in 7-inch square ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. bibliog il diags Heating-Piping 14:566-73 S '42; Excerpts. Sheet Metal Worker 33:47-9 D '42
How to prevent condensation in houses. L. V. Teesdale. diag Am Bld 64:78 S '42
In industry and homes; proper ventilation in blackouts presents new problems. il Dom Eng 159:51+ My '42
Industrial exhaust ventilation; reference section. F. F. Kravath. il diags Heat & Ven 39:36-58 Ap '42
Measuring air flow at intake (or exhaust) grilles; tests made by G. L. Tuve give factors and recommendations for proper use of new attachment for air velocity meters. il Heating-Piping 13:740-3 D '41
New alloys laboratory exhales to keep out dust and gas; Vanadium corp. of America. il Steel 110:58 My 4 '42
Ozone in ventilation and air conditioning. J. A. Robinson. il Heating-Piping 13:759-60 D '41
Sanitary ventilation; eliminating microorganisms by ultraviolet radiation. W. F. Wells. diags Heating-Piping 14:143-5 F '42
12-year old ventilating problem solved; Northwestern national life insurance co. building. E. W. Gifford. il Heat & Ven 38:35 D '41
Ventilation for control of fumes in wartime welding work. W. C. L. Hemeon. diags Heating-Piping 14:341-4+ Je '42
Ventilation requirements for radium dial painting. W. C. L. Hemeon and R. D. Evans. bibliog il diag Heat & Ven 39:23-6 My '42; Same. J Ind Hygiene 24:116-20 My '42

See also
Air conditioning
Air filters
Air flow
Air pipes
Air pollution
Chimneys
Cooling
Dust removal
Electric fans, Ventilating
Exhaust systems
Fans, Mechanical
Heating
Humidity
Mechanical equipment of buildings
Mine ventilation
Ozone
Tunnel ventilation
Ventilators
also subdivision Heating and ventilation under various subjects, e.g.
Air raid shelters
Factories
Foundries
Office buildings
Paper mills
School buildings

Bibliography

Abstracts of current papers, books and pamphlets. Published in monthly numbers of Heating and ventilating

VENTILATION—*Continued*

Tables, calculations, etc.

Fan laws; their derivation and use. W. Goodman. il Heating-Piping 14:487-90, 535-7, 617-19 Ag-O '42

See also
Air pipes—Tables, calculations, etc.

VENTILATION research

Committee on research, ASHVE annual report, 1941. il Heating-Piping 14:323-30 My '42

Effect of attic fan operation on the cooling of a structure. W. A. Hinton and A. F. Poor. il diag plans Heating-Piping 14:244-50 Ap '42; Abstract. Sheet Metal Worker 33:52-4 My '42; Discussion. Heating-Piping 14:250-1 Ap '42

Entrainment and jet-pump action of air streams. G. L. Tuve, G. B. Priester and D. K. Wright, jr. il diag Heating-Piping 13:708-15 N '41; Discussion. 14:265-7 Ap '42

Overloading of viscous air filters during accelerated tests. F. B. Rowley and R. C. Jordan. il diags Heating-Piping 14:438-47 Jl '42

Performance of side outlets on horizontal ducts. D. W. Nelson and G. E. Smedberg. il diags Heating-Piping 14:686-93 N '42

Performance of stack heads equipped with grilles. D. W. Nelson, D. H. Lamb and G. E. Smedberg. il diags Heating-Piping 14:61-8 Ja '42; Abstract. Sheet Metal Worker 33:36, 38, 40 Mr '42

VENTILATORS

Blackout ventilation for factories. diags Sheet Metal Worker 33:26 Ap '42

Cowl ventilators formed on huge drawing press. il Marine Eng 47:267 O '42

Entrainment and jet-pump action of air streams. G. L. Tuve, G. B. Priester and D. K. Wright, jr. il diag Heating-Piping 13:708-15 N '41; Discussion. 14:265-7 Ap '42

Pressure loss caused by elbows in 8-in. round ventilating duct. M. C. Stuart, C. F. Warner and W. C. Roberts. il charts Sheet Metal Worker 33:44, 46, 48+ F '42

SKF industries ventilates its hardening room by combination wind and motor driven roof ventilators. F. G. Volz. il Heat & Ven 39:24 Ag '42

Springfield armory cafeteria heated by unit ventilators. il Heat & Ven 39:41 S '42

Tests reveal performance of grain bin ventilating cowls; abstract. C. F. Kelly, M. G. Cropsey and W. R. Swanson. il Heat & Ven 39:40 S '42

Trane company offers ventilator designed especially for blackout use. il Refrig Eng 43:322 My '42

Ventilating a hospital. P. R. Jordan. diag Sheet Metal Worker 33:25-6 Mr '42

Ventilation and heating of air raid shelters. F. F. Kravath; J. F. Kern, jr. il diags plans Heat & Ven 39:36-50 F '42

See also
Electric fans,
Ventilating

VENTURI flume

Venturi flume flow meter; abstract. A. Linford. Am Water Works Assn J 34:1473-5 S '42

VENTURI meters

Flow measurement of sewage and sludge; development of measuring devices. C. G. Richardson. Pub Works 72:40-1 D '41

VENTURI tubes

Construction of a 9-ft Venturi tube. il diags Engineering 153:221-2, 230 Mr 20 '42

VERITY, George Matthew, 1865-1942

Appreciation. por Iron Age 150:130-1 N 12 '42

VERMICULITE

Sorption of water vapor by vermiculite and its silica; equilibrium measurements. L. A. Spitze and L. A. Hansen. bibliog Ind & Eng Chem 34:506-8 Ap '42

Vermiculite uses increase. Rock Prod 45:82 Je '42

VERMONT

See also
Motor bus lines—
Vermont

Politics and government

Sponsors changes in Vermont procedure. R. T. Cole. East Underw 43:15 Jl 31 '42

VERMONT transit company, inc.

Vermont Transit; Bus Transportation maintenance award; with cost data. il Bus Transportation 20:542 N '41

VERTEBRATES

Man and the vertebrates. A. S. Romer. 3d ed 405p $4.75; educ ed $3.50 Univ. of Chicago press '41

VERTEBRATES, Fossil

Abstracts of the Society of vertebrate paleontology, December meeting, Boston. Geol Soc Bul 52:1987-92 pt 2 D '41

Fossil vertebrates from the superjacent deposits near Knights Ferry, California. R. A. Stirton and H. F. Goeriz. (Dept. of geological sciences bul. v. 26, no. 5) p447-72 bibliog(p471-2) pa 35c Univ. of California press, Berkeley '42

Pliocene vertebrates from Big Spring canyon, South Dakota. J. T. Gregory. (Dept. of geol. sciences bul. v. 26, no. 4) p307-445 bibliog(p434-8) pa $2 Univ. of Calif. press, Berkeley '42

VESTIBULE schools. See Corporation schools

VETERANS' pensions. See Pensions, Military

VETERINARY first aid

First aid to dogs and cats. M. H. Clarke. 145p pa $1 Williams & Wilkins '42

VETERINARY hygiene

Animal sanitation and disease control. R. R. Dykstra. 558p $2.85 The Interstate, 19-23 N. Jackson st, Danville, Ill. '42

VETERINARY medicine

Practical veterinarian. G. H. Conn. 160p $2 P. V. Ewing, Chicago, Ill. '42

Sulfa drugs work wonders in canine cures. A. Bryan. Sci Am 166:194 Ap '42

Study and teaching

British veterinary educational trust. Science 96:420 N 6 '42

VETIVAZULENE

Azulenes; synthesis of vetivazulene. R. R. Coats and J. W. Cook. Chem Soc J p559-62 S '42

VIADUCTS. See Bridges

VIBRATION

Behavior of plastics under vibrations; mild steel, duralumin, laminated plastics, polymethyl methacrylate. B. J. Lazan. bibliog il diags Mod Plastics 20:83-8+ N '42

Degassing of molten aluminum alloys by vibrations produced by electromagnetic fields; abstract. T. Rummel. Mech Eng 64:393-4 My '42

Determination of the static and dynamic constants by means of response curves. R. K. Bernhard. il J Ap Phys 12:866-74 D '41

Distribution of lattice vibrations of the KCl crystal. M. Iona, jr. bibliog Phys R 60:822-6 D 1 '41

Effect of machining and aging on the damping capacity of steel. L. Tarnopol and J. R. Morgan. J Ap Phys 13:343-4 My '42

General observations on vibration. J. Calderwood. Engineering 152:339-40, 344-5 O 24-31 '41

Mechanical impedance of damped vibrating systems. R. G. Manley. diags Roy Aeronautical Soc J 45:342-8 N '41

Practical solution of torsional vibration problems. W. K. Wilson. 2d ed rev & enl 2v 751p; 694p v 1 $8; v2 $8.50 Wiley '40-'41

Resistance to cavitation erosion; vibratory method of testing metals. R. Beeching. il diags Engineering 153:238-40, 278-80 Mr 20, Ap 3 '42

Resonance. C. A. Ludeke. diags J Ap Phys 13:418-23 Jl '42

Theory of vehicle suspensions. P. E. Mercier. diags J Ap Phys 13:484-95 Ag '42; Same cond. Automobile Eng 32:405-10 O '42

VIBRATION—*Continued*

Valve springs; investigations into the problems of surge and vibration. W. Marti. diags Automobile Eng 32:95-100 Mr '42

Vibration fatigue tests for seam-sealing compounds for use in high altitude, pressurized aircraft units. R. L. McFarlan. il diags Aero Digest 41:211-12+ S '42

Vibration of piezoelectric plates. A. W. Lawson. Phys R 62:71-6 Jl 1 '42

See also

Balancing of machinery
Bridges—Vibration
Buildings—Vibration
Earthquakes
Gas and oil engines—Vibration
Light
Machinery—Vibration
Piping (power plants)—Vibration
Sound waves
Vibration absorbers

Measurement

Analyzer for sub-audible frequencies. H. H. Scott. il Acoustical Soc Am J 13:360-2 Ap '42

Axial vibration of Diesel engine crankshafts. R. Poole. diags Inst Mech Eng J & Proc 146:Proc 167-82, pl 1-2 F '42; Same cond. Engineer 173:29-31, 60-2 Ja 9-16 '42

Calculation of vibrations in multi-mass systems. C. R. Freberg. diags Product Eng 13:588-90 O '42

Damping capacity of engineering materials; torsional damping recorder. W. H. Hatfield, G. Stanfield and L. Rotherham. Engineer 173:479-80 Je 5 '42

Decay of vibration phenomena of glass bars. J. G. McCann. il diags Am Cer Soc J 25: 409-13 O 1 '42

Discussion of dynamic methods of testing concrete with suggestions for standardization. L. Obert and W. I. Duvall. diags Am Soc T M Proc 41:1053-70; Discussion. 1071 '41

Dynamic balancing of propellers; Escher Wyss balancing device. E. Kronauer. il diags Aviation 41:119, 121+ My '42

Earthquake stresses in frame structures. R. E. Glover. bibliog il Am Concrete Inst J 13:453-70 Ap '42; Discussion. 13:sup 472^{1}-472^{12} N '42

Eliminating surging in helical springs. A. M. Wahl. il diags Machine Design 14:47-51+ Ap '42

Measurement of torsional vibrations. R. Stansfield. diags Engineering 154:178-80, 198-200 Ag 28-S 4 '42; Same abr. Engineer 174:77-9, 101-2 Jl 24-31 '42; Discussion. Engineering 154:74 Jl 24 '42

Measuring the elastic airplane. W. W. Bender, jr. il Instruments 15:96-7+ Ap '42

Modulus of elasticity of dinnerware bodies by a sonic-vibration method. S. V. Forgue and G. A. Loomis. bibliog il diags Am Cer Soc Bul 20:425-30 D '41

Optimum performance of pendulum-type torsional vibration absorber. A. H. Shieh. diags J Aeronautical Sci 9:337-40 Jl '42

Quartz-crystal accelerometer. R. O. Fehr. il diag Gen Elec R 45:269-72 My '42; Same cond. Electrician 129:172-4 Ag 14 '42

Relation of bearing surface condition to bearing performance. W. Mikelson. il diags Gen Elec R 44:669-72 D '41

Rubber in vibration. S. D. Gehman. bibliog il diags J Ap Phys 13:402-13 Je '42

Sag measurement by means of a stop watch. R. A. Tynes. diag Instruments 15:88-9 Mr '42

Vibration characteristics of nearly-complete, free-free circular rings. F. P. Bundy and C. W. Bankes. il diags J Ap Phys 13: 652-62 O '42

Vibration periods of structures. H. M. Engle. Eng N 128:859-62 My 21 '42

Vibration properties of rubberlike materials; dependence on temperature. R. B. Stambaugh. bibliog il diag Ind & Eng Chem 34: 1358-65 N '42

See also

Vibrograph

VIBRATION absorbers

Control of torsional vibration in radial aircraft engines by means of tuned pendulums. V. Moore. diags J Aeronautical Sci 9:229-44 My '42

Dynamic absorber and its application to multi-throw crankshafts. S. B. Bailey and C. H. Bulleid. Inst Mech Eng J & Proc 145:Proc 73-82 My '41; Discussion. 146:Proc 81-95 D '41

Impact vibrations; isolating their effects in machinery foundations. L. M. Dekanski. diags Product Eng 13:458-61, 515-18 Ag-S '42

Optimum performance of pendulum-type torsional vibration absorber. A. H. Shieh. diags J Aeronautical Sci 9:337-40 Jl '42

Rubber in vibration. S. D. Gehman. bibliog il diags J Ap Phys 13:402-13 Je '42

Synthetic material for isolating vibration and shock; Keldur. Mach 48:160 Je '42

Tricycle landing gear design; vibration dampers to prevent shimmying. E. S. Jenkins and A. F. Donovan. bibliog diags J Aeronautical Sci 9:397-410 S '42

VIBROGRAPH

New method of measuring mechanical vibrations; vibrograph. H. C. Werner. il diags Instruments 15:83-7, 94 Mr '42

VICAT apparatus

Control testing for consistency of refractory mortars. E. C. Petrie and D. W. Kocher. il diags Am Cer Soc J 25:459-63 N 1 '42

VICK chemical company

J. T. Baker sold to Vick chemical co. Oil Paint & Drug Rep 140:4+ D 22 '41

VICKERY, Howard Leroy, 1892-

Advanced to rank of rear admiral. por Marine Eng 47:114 Mr '42

Key men of the Maritime commission. Marine Eng 47:166 O '42

VICTOR chemical works

Denies price fixing. Comm & Fin Chr 156: 168 Jl 13 '42

Growth stocks and the investor. E. N. Chapman. Barron's 22:8 Mr 2 '42

Thumbnail stock appraisal. Mag of Wall St 69:149 N 15 '41

Victor Chemical operating at 100%. M. R. Putnam. Barron's 22:5 Ag 17 '42

VIDAL process

Molding plastic-plywood. il Mod Plastics 19: 46-9+ Jl '42

Plywood planes by the Vidal process. P. M. Heldt. il Automotive & Aviation Ind 87: 28-9+ Jl 15 '42

Vidal process for molded structures. E. E. Miller. il Aviation 41:124-7+ O '42

VIGNOLES, Charles Blacker, 1793-1875

Presentation to the Royal society; gold snuff-box, once the property of C. B. Vignoles, F.R.S. Science 96:224-5 S 4 '42

VINCO corporation

Stock offered. Comm & Fin Chr 155:1687 Ap 27 '42

VINEGAR

Industrial uses of chemicals and related materials. Oil Paint & Drug Rep 142:67 O 26; 82 N 2 '42

Preventing spoilage by mold and bacteria. E. F. Glabe. il Food Ind 14:46-8 F '42

Try vinegar; photographic fixing and hardening bath. E. C. Almquist. Photo Tech 3:53 D '41

See also

Acetic acid

Analysis

Determination of lead content of commercial ciders and vinegars by spectrographic methods. C. W. Schroeder and H. C. Lythgoe. Ind & Eng Chem Anal ed 13:829-30 N 15 '41

Manufacture

Experimental generator helps to control vinegar manufacture. F. M. Hildebrandt. il diag Food Ind 13:62-4 D '41

Plant design in microbiological processes. S. A. Gregory. Inst Chem Eng Trans 18: 131-2 '40

VINIDUR

Vinidur; synthetic material developed in Germany to replace rubber. India Rubber W 107:196+ N '42

VINSOL

Vinsol resin, a new soil stabilizer. il Eng N 128:777-81 My 7 '42

Vinsol resin, extender and modifier; extracted from southern pine wood. il Mod Plastics 19:59+ Je '42

VINYL acetate

Solubility diagrams for the systems ethylidene diacetate-acetic acid-water and vinyl acetate-acetone-water. J. C. Smith. J Phys Chem 46:229-32 F '42

Structure of copolymers of vinyl chloride and vinyl acetate. C. S. Marvel and others. bibliog diag Am Chem Soc J 64:2356-62 O '42

VINYL acetylene

Decomposition of certain acetylenic carbinols. A. F. Thompson, jr. and C. Margnetti. bibliog Am Chem Soc J 64:573-6 Mr '42

VINYL alcohol

Elimination of dehydration in histological technique; use of polyvinyl alcohols (PVA). V. Lubkin and M. Carsten. Science 95:633-4 Je 19 '42

Sewed closures for paper bags; cotton thread replaced by spun paper or by polyvinyl alcohol filaments. J. S. Simpson, G. R. Beebe, and A. W. Koon. Paper Tr J 114:117-18 F 19 '42

Synthetic resin replaces rubber; polyvinyl alcohol compounds; Resistoflex. il Mod Plastics 19:66-7+ Ag '42

VINYL chloride

Chemicals from petroleum. W. T. Ziegenhain. Oil & Gas J 41:42 Ag 27 '42

Effect of solvents upon solid organic plastics. J. Delmonte. bibliog Ind & Eng Chem 34:764-70 Je '42

Electrical properties of solids; plasticized polyvinyl chloride. D. J. Mead, R. L. Tichenor and R. M. Fuoss. bibliog Am Chem Soc J 64:283-91 F '42

Loss of plasticizers from polyvinyl chloride plastics in vacuum. H. A. Liebhafsky, A. L. Marshall and F. H. Verhoek. bibliog diag Ind & Eng Chem 34:704-8 Je '42

Structure of copolymers of vinyl chloride and vinyl acetate. C. S. Marvel and others. bibliog diag Am Chem Soc J 64:2356-62 O '42

Viscosities of solutions of polyvinyl chloride. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:277-82 F '42

See also

Koroseal

VINYL compounds

German patents relating to vinyl polymers. L. Voge. bibliog India Rubber W 105:37-8, 157-8, 471-2 O-N '41, F '42; new series. M. Hoseh. bibliog 105:571-2; 106:43-4, 139-40, 248-9, 357-8, 459-60, 629; 107:171-2 Mr-S, N '42 (to be cont)

How the coating industry is using the nitroparaffins; solvents for the vinyl resins. C. Bogin. Paint Oil & Chem R 104:8-10, 25-9 O 8 '42

Introduction of substituted vinyl groups; acetoacetic ester series. A. C. Cope and C. M. Hofmann. bibliog Am Chem Soc J 63:3456-9 D '41

Structure of vinyl polymers; the polymer of methyl isopropenyl ketone. C. S. Marvel, E. H. Riddle and J. O. Corner. bibliog Am Chem Soc J 64:92-4 Ja '42

3,4-Substituted pyridines; synthesis of 3-vinyl-4-methylpyridine. J. R. Stevens, R. H. Beutel and E. Chamberlin. bibliog Am Chem Soc J 64:1093-5 My '42

Vinyl elastomers; low-temperature flexibility behavior. R. F. Clash, jr. and R. M. Berg. bibliog il diag Ind & Eng Chem 34:1218-22 O '42

9-Vinylphenanthrenes; α-(9-phenanthryl)-stilbene. F. Bergmann. Am Chem Soc J 64:69-72 Ja '42

See also

Koroseal

VINYL cyanide. See Acrylonitrile

VINYL ether

Analysis

Analysis of divinyl ether in blood. W. L. Ruigh. bibliog il Ind & Eng Chem Anal ed 14:32-4 Ja 15 '42

VINYL quinoline

Syntheses in the quinoline series; some derivatives of 4-methylquinoline and a study of their structures. O. H. Johnson and C. S. Hamilton. bibliog Am Chem Soc J 63:2864-7 N '41

VINYLENE compounds

Color and constitution; absorptions of some related vinylene-homologous series. L. G. S. Brooker and others. bibliog Am Chem Soc J 63:3192-203 N '41

VINYLIDENE chloride. See Dichloroethylene

VINYLITE

New surface coating resin; Vinylite VMCH. Mech Eng 64:sup23+ N '42

VINYON

Plastics competition award to S. Buchsbaum & co.; personal accessories from vinyl plastics. il Mod Plastics 19:158-9 N '41

Vinyon fabric for use in screen printing. Textile World 92:108 F '42

VIRGIN ISLANDS

President hails strides made by Virgin Islands. Comm & Fin Chr 155:1446 Ap 9 '42

VIRGINIA

See also

Chemical industries—Virginia

Geology—Virginia

Mines and mineral resources—Virginia

VIRGINIA academy of science

Research grants. Science 94:602-3 D 26 '41

Twentieth annual meeting. S. S. Negus. Science 96:115 Jl 31 '42

VIRGINIA electric and power company

Labor board must clarify attitude on employer's views. Oil Paint & Drug Rep 140:3+ D 29 '41

VIRGINIA public service company

Amends financing plan. Comm & Fin Chr 155:1847 My 11 '42

Bids asked for bonds and debentures. Comm & Fin Chr 155:2103 Je 1 '42

First mortgage bonds yield 3.50%; debenture 5s good income producers. Comm & Fin Chr 155:2379+ Je 25 '42

Proposed reorganization and recapitalization plan filed with SEC. Comm & Fin Chr 154:1060 N 15 '41

Securities offered. Comm & Fin Chr 155:2191-2 Je 8 '42

Various bond and debenture issues called for redemption. Comm & Fin Chr 155:2288 Je 15 '42

VIRGINIAN railway

Secondary offering of preferred stock. Comm & Fin Chr 156:1160 S 28 '42

VIRIAL coefficients

Determination of the Lennard-Jones parameters from second virial coefficients; tabulation of the second virial coefficient. W. H. Stockmayer and J. A. Beattie. J Chem Phys 10:476-7 Jl '42

Second virial coefficient for gas mixtures. J. A. Beattie and W. H. Stockmayer. bibliog J Chem Phys 10:473-6 Jl '42

Second virial coefficients and the forces between complex molecules. J. O. Hirschfelder, F. T. McClure and I. F. Weeks. bibliog J Chem Phys 10:201-11 Ap '42

Second virial coefficients of polar gas mixtures. W. H. Stockmayer. bibliog J Chem Phys 9:863-70 D '41

VIRUSES

Factor in domestic rabbit papilloma tissue hydrolyzing the papilloma virus protein. F. Bernheim and others. bibliog Science 95:230-1 F 27 '42

Immunity in virus infections. T. M. Rivers. Science 95:107-12 Ja 30 '42

Isolation of a filterable virus from chickens affected with blue comb disease. E. F. Waller. Science 95:560-1 My 29 '42

Nature of virus adaptations. R. G. Green. Science 95:602-3 Je 12 '42

VIRUSES—*Continued*

Occurrence and recovery of the virus of infantile paralysis from water; abstract. J. R. Paul. Water Works & Sewerage 88:509-10 N '41

Properties of the isolated macromolecular component of normal chick embryo tissue. A. R. Taylor and others. bibliog Science 94:613-15 D 26 '41

Purification of the virus of mouse encephalomyelitis (Theiler's virus). S. Gard and K. O. Pedersen. Science 94:493-4 N 21 '41

Ultraviolet rays and virus diseases. Science 95:sup10 Ja 9 '42

Unidentified virus which produces pneumonia and systemic infection in mice. C. Nigg. Science 95:49-50 Ja 9 '42

Virus infection of the mammalian fetus. E. W. Goodpasture. Science 95:391-6 Ap 17 '42

Vitro cultivation of the street virus of rabies. H. Plotz and R. Reagan. bibliog Science 95:102-4 Ja 23 '42

See also

Vaccines

VIRUSES, Plant

Darkening technique for inducing virus symptoms in mature as well as in growing leaves. E. M. Hildebrand and O. F. Curtis. Science 95:390 Ap 10 '42

Preserving plant viruses in vitro by means of a simplified lyophile apparatus. T. P. Dykstra and H. G. du Buy. diag Science 96:189-90 Ag 21 '42

Rapid transmission techniques for stone-fruit viruses. E. M. Hildebrand. Science 95:52 Ja 9 '42

Recent evidence regarding the nature of viruses. T. E. Rawlins. bibliog Science 96: 425-6 N 6 '42

See also

Tobacco mosaic virus
Wheat mosaic virus

VISCOMETERS. See Viscosimeters

VISCOSE

Change in the viscosity of viscose by addition of reagents. P. C. Scherer and J. R. Leonards. Rayon 23:607-9 O '42

Depolymerization of cellulose in viscose production; effect of manganese on depolymerization rate. F. E. Bartell and H. Cowling. bibliog Ind & Eng Chem 34:607-12 My '42

See also

Rayon

VISCOSIMETERS

Calculation of viscosity from Stormer viscometer data. J. A. Geddes and D. H. Dawson. diag Ind & Eng Chem 34:163-7 F '42

Control testing for consistency of refractory mortars. E. C. Petrie and D. W. Kocher. il diags Am Cer Soc J 25:459-63 N 1 '42

Development of a capillary viscometer to measure viscosities in excess of 10 poises. A. H. Nissan. diags Inst Pet J 28:41-56, pl 1-2 Mr '42

Dobbie-McInnes ball and bucket viscometer. il diag Engineering 153:6-7, 10 Ja 2 '42; Same cond. Mech Eng 64:225-6 Mr '42

High-speed rotational viscometer of wide range; confirmation of the Reiner equation of flow. H. Green. bibliog il diags Ind & Eng Chem Anal ed 14:576-85 Jl 15 '42

New viscosimeter measures viscosity quickly and accurately. E. A. Zahn. il Chem Ind 51:220 Ag '42

Pipet-type capillary viscometer for substances which are solid or highly viscous at room temperature. J. F. Weiler. diag Ind & Eng Chem Anal ed 14:634 Ag 15 '42

Resistance to the uniform motion of a solid through a viscous liquid; reply to J. T. Burwell, jr. R. B. Block. bibliog J Ap Phys 13:56-65 Ja '42

Rotary viscometer for determination of high consistencies. R. N. Traxler, J. W. Romberg and H. E. Schweyer. bibliog il diag Ind & Eng Chem Anal ed 14:340-4 Ap 15 '42

Simple viscometer. W. C. G. Wheeler. diag Soc Chem Ind J 60:300 N '41

Simple viscometer for research and control. F. C. Croxton. bibliog diags Ind & Eng Chem Anal ed 14:593-5 Jl 15 '42

Viscometry of printing inks with the Höppler viscometer; abstract. W. Kühn. Chem & Met Eng 49:161 Ja '42

Viscosity determination of polymer solutions. D. W. Young and E. H. McArdle. Ind & Eng Chem Anal ed 14:639-40 Ag 15 '42

Viscosity of liquid road asphalts measured in terms of scientific units; use of capillary-rise viscosimeter. J. Zapata, A. Rode and W. Doyle. il Eng N 128:915-17 Je 4 '42

VISCOSITY

Change in the viscosity of viscose by addition of reagents. P. C. Scherer and J. R. Leonards. Rayon 23:607-9 O '42

Comparison of the capillary flow and falling sphere methods of determining the viscosity of cellulose in cuprammonium solutions. R. S. Hatch, R. N. Hammond and J. J. McNair. Paper Ind 24:436+ Jl '42

Cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1192-9 O '42

Depolymerization of cellulose in viscose production; effect of manganese on depolymerization rate. F. E. Bartell and H. Cowling. bibliog Ind & Eng Chem 34:607-12 My '42

Effect of temperature and solvent type on the intrinsic viscosity of high polymer solutions. T. Alfrey, A. Bartovics and H. Mark. bibliog Am Chem Soc J 64:1557-60 Jl '42

Effect of viscosity of fuel oil on injection equipment. G. W. Baierlein. diags Diesel Power 19:1040+; 20:136-7+ D '41, F '42

Elasticity of glass at high temperatures and the vitreous basaltic substratum. F. Birch and D. Bancroft. bibliog Am J Sci 240: 457-90 Jl '42

Frictional phenomena; applications of liquid viscosity to electrical insulating liquids, particularly in high voltage cables. A. Gemant. bibliog diags J Ap Phys 13:290-9 My '42

Frictional phenomena; liquids. A. Gemant. bibliog J Ap Phys 12:827-36 D '41

Frictional phenomena; lubrication. A. Gemant. bibliog diags J Ap Phys 13:355-60 Je '42

Frictional phenomena; structural viscosity. A. Gemant. bibliog diags J Ap Phys 13:210-21 Ap '42

Macromolecular properties of linear polyesters; the viscous flow and kinetic interaction in solution of ω-OH-undecanoic self-polyesters. W. O. Baker, C. S. Fuller and J. H. Heiss, jr. bibliog Am Chem Soc J 63:3316-21 D '41

Mechanical properties of substances of high molecular weight; viscosities of the system polystyrene-xylene. J. D. Ferry. bibliog Am Chem Soc J 64:1330-6 Je '42

Particle size studies; effect of viscosity of medium on rate of grinding in pebble mills. H. E. Schweyer. bibliog il Ind & Eng Chem 34:1060-5 S '42

Precipitated starch product; effect of soap on viscosity. C. C. Kesler and W. C. Black. bibliog Paper Tr J 114:57-60 My 21 '42

Random reorganization of molecular weight distribution in linear condensation polymers. P. J. Flory. bibliog Am Chem Soc J 64: 2205-12 S '42

Relation between viscosity of solutions and physical properties of high polymers. R. Simha. bibliog J Ap Phys 13:147-53 Mr '42

Relaxation effects in amorphous media. R. Simha. bibliog J Ap Phys 13:201-7 Mr '42

Resistance to the uniform motion of a solid through a viscous liquid; reply to J. T. Burwell, jr. R. B. Block. bibliog J Ap Phys 13:56-65 Ja '42

Solubility of polybutene in pure solvents. H. C. Evans and D. W. Young. bibliog Ind & Eng Chem 34:461-6 Ap '42

Solvent properties of isomeric paraffins. E. H. McArdle and A. E. Robertson. bibliog Ind & Eng Chem 34:1005-8 Ag '42

VISCOSITY—*Continued*

Starch studies; preparation and properties of starch triesters. J. W. Mullen, 2d and E. Pacsu. bibliog(65 references) il Ind & Eng Chem 34:1209-17 O '42

Stickiness, tackiness, and spinnability; possible molecular interpretation. D. Josefowitz and H. Mark. bibliog diags India Rubber W 106:33-7 Ap '42

Structural viscosity studies of coating clay compositions; abstract. G. H. Sheets. il diag Paper Ind 24:182+ My '42

Studies of relative viscosity of non-aqueous solutions. H. T. Briscoe and W. T. Rinehart. J Phys Chem 46:387-94 Mr '42

Superliquid in two dimensions and a first-order change in a condensed monolayer; abnormal viscosity relations of alcohol monolayers in condensed liquid phases. L. E. Copeland, W. D. Harkins and G. E. Boyd. bibliog J Chem Phys 10:357-65 Je '42

Supersonic absorption and Stokes' viscosity relation. L. Tisza. bibliog Phys R 61:531-6 Ap 1 '42

Surface tension-viscosity nomograph for organic liquids. D. S. Davis. Ind & Eng Chem 34:1231 O '42

Temperature and composition coefficients of the density, refractive index, and viscosity of the methyl alcohol-dioxane system. E. S. Amis, A. R. Choppin and F. L. Padgitt. bibliog Am Chem Soc J 64:1207-12 My '42

Town gas and kinematic viscosity. A. Coe. diag plan Gas J (Lond) 237:390, 393, 435, 437; 238:62, 64, 67+ Mr 18-25, Ap 8 '42; Discussion. 238:102 Ap 15 '42

Varnish viscosity temperature curves; abstract. L. A. Steiner. Paint Oil & Chem R 103:10 D 4 '41

Viscosities of aqueous solutions of some phenanthrenesulphonic acids. T. R. Bolam and J. Hope. Chem Soc J p850-4 D '41

Viscosities of solutions of polyvinyl chloride. D. J. Mead and R. M. Fuoss. bibliog Am Chem Soc J 64:277-82 F '42

Viscosity and cryoscopic data on polystyrene; discussion of Staudinger's viscosity rule. A. R. Kemp and H. Peters. bibliog Ind & Eng Chem 34:1097-1102 S '42

Viscosity and surface tension effects on V-notch weir coefficients. A. T. Lenz. bibliog il diags Am Soc C E Proc 68:351-74 Mr '42; Discussion. 68:1033-4, 1186-98; 69:163-5 Je, S '42, Ja '43

Viscosity compensation for oil burners. K. Steiner. diags Heating-Piping 14:292-4 My '42

Viscosity determination of polymer solutions. D. W. Young and E. H. McArdle. Ind & Eng Chem Anal ed 14:639-40 Ag 15 '42

Viscosity nomographs for organic liquids. D. S. Davis. Ind & Eng Chem 33:1537-9 D '41

Viscosity of binary liquid mixtures; abstract. R. Linke. Chem & Met Eng 49:222 S '42

Viscosity of certain ferric oxide hydrosols. L. M. Greenstein and A. W. Thomas. bibliog J Chem Phys 10:229-40 Ap '42

Viscosity of *cis* and *trans* decahydronaphthalene. W. F. Seyer and J. D. Leslie. bibliog Am Chem Soc J 64:1912-16 Ag '42

Viscosity of crude-oil emulsions. W. Woelflin. diag Oil & Gas J 40:35, 37 Mr 19 '42

Viscosity of formamide-dioxane solutions at 5, 25 and 40°. W. G. Parks, I. M. LeBaron and E. W. Molloy. bibliog Am Chem Soc J 63:3331-6 D '41

Viscosity of naphtha-resin solutions. E. H. McArdle and E. L. Baldeschwieler. Ind & Eng Chem 34:882-5 Jl '42

Viscosity of propane, butane, and isobutane. M. R. Lipkin, J. A. Davison and S. S. Kurtz, jr. bibliog diags Ind & Eng Chem 34:976-8 Ag '42

Viscosity pole and pole height (W_p) of Ubbelohde. S. S. Kurtz, jr. bibliog Ind & Eng Chem 34:770 Je '42

See also
Fluidity
Plasticity
Surface tension

Measurement

Calculation of viscosity from Stormer viscometer data. J. A. Geddes and D. H. Dawson. diag Ind & Eng Chem 34:163-7 F '42

Cupri-ethylene diamine disperse viscosity of cellulose. F. L. Straus and R. M. Levy. bibliog diag Paper Tr J 114:31-4 Ja 15 '42

Filtering device for viscosity tubes. S. J. Hetzel. diag Ind & Eng Chem Anal ed 14:288 Ap 15 '42

Frictional phenomena; the measurement of the viscosity of liquids. A. Gemant. bibliog diags J Ap Phys 13:22-9 Ja '42

Frictional phenomena; viscosity of colloidal solutions; application to synthetic polymers. A. Gemant. bibliog diags J Ap Phys 13:90-6 F '42

Importance of cuprammonium viscosity testing in the preparation of rag half-stock. H. U. Kiely and E. A. Bieniek. Paper Tr J 115:29-31 Ag 20 '42

Measuring viscosity of starch pastes; abstract. B. Brimhall and R. M. Hixon. Food Ind 14:107 N '42

State of aggregation of gelatin in non-gelating systems. E. O. Kraemer. J Phys Chem 46:177-82 Ja '42

Viscometric estimation of particle dimensions; the system stearic acid-carbon tetrachloride. J. P. Hollihan and D. R. Briggs. bibliog J Phys Chem 46:685-93 Je '42

Viscosity determination of cotton in dimethyl dibenzyl ammonium hydroxide. W. W. Russell and L. N. Hood, jr. bibliog diag Ind & Eng Chem Anal ed 14:202-5 Mr 15 '42

See also
Viscosimeters

VISES

False vise jaw holds cylindrical objects. C. F. Fitz. diags Am Mach 86:511 My 28 '42

Gets direct mail sales at 8% cost; machine vises. W. P. Woodall. il Ind Marketing 27:42+ Jl '42

Hydraulic vise. Sci Am 166:92 F '42

Hydraulic vise operated by foot valve pump. il diags Product Eng 13:9 Ja '42

Machine vise made from scrap iron. G. Holman. diag Am Mach 86:349 Ap 16 '42

VISIBILITY

Ability to see low contrasts at night. M. Luckiesh and F. K. Moss. il J Aeronautical Sci 9:261-3 My '42

Diffusing effect of fog. W. E. K. Middleton. diags Opt Soc Am J 32:139-43 Mr '42

Lighting and seeing in the drafting room. W. G. Darley and L. S. Ickis. bibliog il diags Illum Eng 36:1462-87; Discussion. 1487-91 D '41

Measurement of visibility; Luckiesh-Moss visibility meter. M. Luckiesh and F. K. Moss. il diag J Aeronautical Sci 9:100-2 Ja '42

Night-time visibility of surface-dressed traffic lines. il Pub Works 73:22+ O '42

Psychology in highway design. S. M. Spears. W Soc E J 46:275-8 D '41

Use of street lighting evaluator. C. T. Bakeman. Elec West 88:83-5 Je '42

See also
Lighting
Sight

VISIBLE records. See Records, Visible

VISION. See Sight

VISITORS

How to control factory visitors. il Am Business 12:15+ Ja '42

Sure you know your visitors? J. R. Mudler. il Factory Management 100:78-9 F '42

VISUAL instruction

Audio-visual handbook. E. C. Dent. 4th ed 227p bibliog(p199-211) $1.75 Soc. for visual education, 100 E. Ohio st, Chicago '42

Machine operators taught by pictures; Kearney & Trecker corp. diags Iron Age 150:104-5 Ag 20 '42

Maintenance training with movies; Bell aircraft corporation. D. G. Forman. il Aviation 41:207-8+ Ag '42

Pan American's training program for service mechanics; use of slide films. J. Howard. il Aero Digest 41:225+ O '42

VISUAL instruction—*Continued*

Plastic models in war training. il Mech Eng 64:484-5 Je '42

Visual aids and training in the United States army. W. Foley. J Chem Educ 19:137 Mr '42

Visual production training at Bell aircraft corp. D. G. Forman. il Aviation 41:127-9+ Jl '42

VITAL statistics

See also

Birth rate

Diseases—Statistics

Infant mortality—Statistics

Mortality—Statistics

Population—Statistics

Canada

Vital statistics, 1939; 19th annual report. 452p pa 50c Canada. Dominion bur. of statistics, Ottawa '41

VITALLIUM

Vitallium plates used to repair skull defects. Sci Am 165:332 D '41

VITAMINS

ABCD's in vitamins. Barron's 21:5 D 1 '41

Adsorption of organic compounds; adsorption of ampholytes on an activated charcoal. V. H. Cheldelin and R. J. Williams. bibliog Am Chem Soc J 64:1513-16 Jl '42

Application of statistical analysis with special reference to the assay of vitamins. C. A. Morrell. Chem & Ind 61:35-9 Ja 17 '42

Biological action of the vitamins; a symposium. E. A. Evans, jr., ed. 227p $3 Univ. of Chicago press '42

Charles Frederick Chandler medal of Columbia university; awards to R. R. Williams and R. J. Williams. Science 95:245-6 Mr 6 '42

Chemistry and physiology of the vitamins. H. R. Rosenberg. 674p $12 Interscience pub. 215 4th av. New York '42

Colds on the payroll. Am Business 12:28-31 O '42

Cook's tour through the maze of the amazing vitamin industry; constitute a third of total drug products values. R. Fyne. il Sales Management 50:18-21 Je 15 '42

Do you know the what and where and how to save vitamins and minerals? J. E. Becker. Am Gas Assn Proc 1941:300-4

Doctrine and diet; developments in nutritional science outrun education. J. A. Tobey. il Tech R 44:127-9+ Ja '42

Enrichment of bread and flour with the two vitamins, thiamin and niacin, and the mineral, iron; abstract. R. R. Williams. Science 95:sup9 My 29 '42

Ever see a vitamin? Take a look! Home service program; Fall River (Mass.) gas works co. H. V. Potter. il Gas Age 89:47-8 My 7 '42

Food values in war-time. V. G. Plimmer. 80p pa 40c Longmans '41

How to regain and retain health. J. H. Maassen. 282p bibliog(p263-76) $3 Health publications, 117 W. 9th st, Los Angeles '42

Indiscriminate administration of vitamins to workers in industry; abstract. J Ind Hygiene 24:sup87-8 My '42

Industrial development of synthetic vitamins. R. T. Major. il Chem & Eng N 20:517-23 Ap 25 '42

Industry drafts the vitamins. Fortune 26:64+ N '42

Nation's food; cereals as food. D. W. Kent-Jones and A. L. Bacharach. bibliog Chem & Ind 60:823-7 N 22 '41

Nation's food; meat as food; the mineral and vitamin content of meat. A. L. Bacharach. Chem & Ind 61:404-6 O 3 '42

Need for vitamins. L. Stambovsky. Consumers' Research Bul 9:17-20 Ap '42

New source of fish oil vitamins in Peru. Science 94:sup14 D 26 '41

Nutritional deficiencies; diagnosis and treatment. J. B. Youmans and E. W. Patton. 385p bibliog(p366-8) $5 Lippincott '41

Our bread and milk; discussion of Wheatmeal bread or milk, by Dr N. C. Wright. A. L. Bacharach. Chem & Ind 60:791-5 N 8 '41

Pharmaceutical supplies conditions; natural vitamin materials. J. W. Clissold. Oil Paint & Drug Rep 141:55 Je 22 '42

Pills in the contract; union's successful demand for daily vitamin dosage. Business Week p52-3 My 16 '42

Social implications of vitamins. R. R. Williams. Science 94:471-5, 502-6 N 21-28 '41

Technological aspect of food fortification. A. J. Amos and D. W. Kent-Jones. Chem & Ind 61:79-82 F 14 '42

Victory lunch aids vitamin intake. F. M. Gatto. il Nat Safety N 46:93-4 S '42

Vitamin content of green snap beans; abstract. K. T. Farrell and C. R. Fellers. Food Ind 14:109-10 N '42

Vitamin quest. il For Comm W 7:8+ Je 27 '42

Vitamin synthesis by a yeast converted from a heterotrophic to an autotrophic habit. L. H. Leonian and V. G. Lilly. Science 95:658 Je 26 '42

Vitamin therapy; symposium at A.P.M.A. meeting. Oil Paint & Drug Rep 140:36+ D 15 '41

Vitamins. C. R. Addinall. il J Chem Educ 19:203-14 My '42

Vitamins and minerals for everyone. A. F. Pattee. 242p $2 Putnam '42

Vitamins and the pharmaceutical industry today. J. W. Clissold. Oil Paint & Drug Rep 141:7+ F 16 '42

Vitamins for victory. Chem Ind 50:778+ Je '42

Vitamins from rose hips. For Comm W 8:20 Jl 25 '42

Vitamins in grass. V. Booth. Chem & Ind 61:255-6 Je 6 '42

Vitamins in the future. R. J. Williams. Science 95:340-4 Ap 3 '42

Vitamins in the future. R. R. Williams. Science 95:335-40 Ap 3 '42

Vitamins may be fewer in war-time but there're enough if you know where to look for them. R. L. Barbour. Ins Field (Life ed) 71:6 F 6 '42

We need vitamins; what are they? what do they do? W. H. Eddy and G. G. Hawley. 102p bibliog(p101-2) $1.50 Reinhold pub. corp. '41

Analysis

Vitamin assay methods. E. E. Wood. il diag Can Chem & Process Ind 26:489-92+, 553-6 Ag-S '42

Vitamin A

Applications of molecular distillation; commercial production of vitamin A. D. D. Howat. Chem Age (Lond) 46:41-3 Ja 17 '42

Concentration of vitamin A by adsorption. L. A. Swain. Can Chem & Process Ind 25:684+ D '41; Excerpts. Food Ind 14:102 F '42

Consideration of the adequacy of biomicroscopy as a method of detecting mild cases of vitamin A deficiency. E. C. Callison. Science 95:250-1 Mr 6 '42

Crystalline aliphatic esters of vitamin A. J. G. Baxter and C. D. Robeson. pls Am Chem Soc J 64:2407-10 O '42

Crystalline vitamin A. J. G. Baxter and C. D. Robeson. pls Am Chem Soc J 64:2411-16 O '42

Determination of carotene and cryptoxanthin in yellow corn. G. S. Fraps and A. R. Kemmerer. bibliog Ind & Eng Chem Anal ed 13:806-9 N 15 '41

Feeding of cows controls vitamin A content of butter. S. M. Hauge. Food Ind 14:48-9+ F '42

Methods of detecting mild cases of vitamin A deficiency. H. D. Kruse. Science 95:623-4 Je 19 '42

Milk fats from cows fed on fresh pasture and ensiled green fodder; estimation of vitamin-*A* activity. R. A. Morton, J. W. Lord and T. W. Goodwin. Soc Chem Ind J 60:310-13 D '41

Newer aspects of the chemical function of the vitamins. L. E. Booher. Chem & Ind 61:391-2 S 19 '42

VITAMINS—Vitamin A—*Continued*

Some assays of provitamin A carotenoids. G. Mackinney, S. Aronoff and B. T. Bornstein. bibliog Ind & Eng Chem Anal ed 14:391-5 My 15 '42

Treatment of experimental renal hypertension with vitamin A. G. E. Wakerlin, W. G. Moss and E. L. Smith. bibliog Science 96:161-3 Ag 14 '42

Vitamin-*A* and the biologically active carotenoids. R. F. Hunter. Chem & Ind 61:89-94 F 21 '42

Vitamin A and the thyroid. R. F. Sheets, jr. and H. C. Struck. Science 96:408-9 O 30 '42

Vitamin A consumption limited. Science 95: sup10+ Ap 17 '42

Vitamin A for color-blindness. K. Dunlap and R. D. Loken. Science 95:554 My 29 '42

Vitamin A group to advise OPA. Oil Paint & Drug Rep 142:5 Jl 27 '42

Vitamin-A in fish. J. A. Lovern. Chem & Ind 61:222-3 My 16 '42

Vitamin A in the diet of infants; abstract. J. M. Lewis and O. Bodansky. Science 96: sup10 Jl 24 '42

Vitamin A oils ceiling level set. Oil Paint & Drug Rep 142:7+ Ag 3 '42

Vitamin A oils L-order revised. Oil Paint & Drug Rep 141:4+ Ap 13 '42

Vitamin A under full allocation. Oil Paint & Drug Rep 141:7+ F 16 '42

Vitamin-*A* value of carotene in vegetables. H. C. H. Graves. bibliog Chem & Ind 61: 8-10 Ja 3 '42

Vitamin A values of 128 foods as determined by the rat-growth method. L. E. Booher and R. L. Marsh. diags U S Agric Tech Bul 802:1-30 bibliog(p30) '41

Vitamins; effect on brain and nervous system. Science 94:sup12 D 26 '41

Vitamins for victory; vitamin A for prevention of eye fatigue; Westinghouse electric and manufacturing company. Safety Eng 84:37-8 Ag '42

Analysis

Influence of solvent on the ultraviolet absorption maximum of vitamin A. K. Morgareidge. bibliog Ind & Eng Chem Anal ed 14:700-2 S 15 '42

Ultraviolet absorption of vitamin A in various solvents. F. P. Zscheile and R. L. Henry. bibliog Ind & Eng Chem Anal ed 14: 422-5 My 15 '42

Vitamin B complex

Developing germ vitamin factories and the chocolate-flavored germ syrup for digesting grass, leaves and wood; abstract. G. J. Martin. Science 95:sup8+ Ap 24 '42

Diminution in ability of the liver to inactivate estrone in vitamin B complex deficiency. M. S. Biskind and G. R. Biskind. Science 94:462 N 14 '41

Enrichment of white bread with vitamin B complex through the addition of debitterized brewers' yeast. R. Schwarz and others. bibliog Ind & Eng Chem 34:480-3 Ap '42

Gray hair darkened by doses of vitamin B; abstract. G. J. Martin and S. Ansbacher. Sci Am 166:120 Mr '42

High vitamin flours; their production, nutritive value and commercial utility. A. W. Alcock and R. K. Larmour. il Can Chem & Process Ind 26:3-9 Ja '42

Influence of vitamin B (complex) surplus on the capacity for muscular and mental work. E. Simonson and others. bibliog J Ind Hygiene 24:83-90 Ap '42

Newer aspects of the chemical function of the vitamins. L. E. Booher. Chem & Ind 61:388-92 S 19 '42

Nutritional deficiency and infection; influence of riboflavin or thiamin deficiency on fatal experimental pneumococcal infection in white mice. J. G. Wooley and W. H. Sebrell. bibliog Pub Health Rep 57: 149-61 Ja 30 '42

Occurrence of vitamins in fungi. C. C. Carpenter and E. W. Friedlander. Science 95: 625 Je 19 '42

Tooth decay and pyorrhea; abstract. Science 94:sup9 N 21 '41

Uniformities in the content of B vitamins in malignant neoplasms. A. Taylor, M. A. Pollack and R. J. Williams. Science 96: 322-3 O 2 '42

Vitamin assay methods. E. E. Wood. il diag Can Chem & Process Ind 26:489-92+ Ag '42

Vitamin deficiency and high blood pressure; abstract. R. M. Calder. Science 96:sup6-7 Jl 31 '42

Vitamin B_1

Heavy drinkers of alcoholic beverages probably do not require extra amounts of vitamin B_1; abstract. J. V. Lowry and others. Science 95:sup8 Ap 10 '42

Stability of vitamin B_1 in the manufacture of bread; abstract. A. S. Schultz, L. Atkin and C. N. Frey. Food Ind 14:107 N '42

Synthesis of vitamin B_1 by yeast. J. M. Van Lanen and others. bibliog Ind & Eng Chem 34:1244-7 O '42

Vitamin-B_1 and riboflavin contents of wheat germ. J. J. C. Hinton. Soc Chem Ind J 61:143-4 S '42

Vitamin-B_1: estimation in wheatmeal and brown bread and stability of different forms of vitamin-B_1 during bread-making. E. R. Dawson and G. W. Martin. bibliog Soc Chem Ind J 61:13-18 Ja '42

Vitamins in flour. Chem Age (Lond) 45:243 N 8 '41

Analysis

Determination of thiamine by the yeast fermentation method. C. V. Smythe. bibliog Science 94:539 D 5 '41

Determination of thiamine in vegetables. J. C. Moyer and D. K. Tressler. bibliog Ind & Eng Chem Anal ed 14:788-90 O 15 '42

Determination of vitamin B_1 by yeast fermentation method; improvements related to use of sulfite cleavage and a new fermentometer. A. S. Schultz, L. Atkin and C. N. Frey. bibliog il Ind & Eng Chem Anal ed 14:35-9 Ja 15 '42

Fermentometer for determining thiamine (vitamin B_1). il R Sci Instr 12:616 D '41

Further notes on the estimation of vitamin-B_1 by the thiochrome method. Y. L. Yang and L. J. Harris. Chem & Ind 61:27-8 Ja 10 '42

Modified micro-fermentation method for the estimation of thiamine. E. S. Josephson and R. S. Harris. Ind & Eng Chem Anal ed 14:755-6 S 15 '42

Simple method for B_1 determination. H. H. Bunzell. diags Ind & Eng Chem Anal ed 14:279-80 Mr 15 '42

Vitamin B_2

Destruction of riboflavin by light; study of losses in cookery in open vessels. R. R. Williams and V. H. Cheldelin. Science 96: 22-3 Jl 3 '42

Effect of light on riboflavin solutions; effect of sunlight on reduced and unreduced solutions. C. M. O'Malley and C. W. Sievert. Ind & Eng Chem 34:1117-18 S '42

Growth stimulants in the microbiological assay for riboflavin and pantothenic acid. J. C. Bauernfeind, A. L. Sotier and C. S. Boruff. Ind & Eng Chem Anal ed 14:666-71 Ag 15 '42

Growth stimulating substances for lactobacillus casei. R. E. Feeney and F. M. Strong. bibliog Am Chem Soc J 64:881-4 Ap '42

Nutritional deficiency and infection; influence of riboflavin or thiamin deficiency on fatal experimental pneumococcal infection in white mice. J. G. Wooley and W. H. Sebrell. bibliog Pub Health Rep 57:149-61 Ja 30 '42

Quantitative relationship of riboflavin to cataract formation in rats. H. M. Baum, J. F. Michaelree and E. B. Brown. Science 95:24-5 Ja 2 '42

Vitamin-B_1 and riboflavin contents of wheat germ. J. J. C. Hinton. Soc Chem Ind J 61:143-4 S '42

VITAMINS—Vitamin B_2—*Continued*

Analysis

Riboflavin analysis of cereals; application of the microbiological method; comparison with fluorometric method. J. S. Andrews, H. M. Boyd and D. E. Terry. bibliog Ind & Eng Chem Anal ed 14:271-4 Mr '42

Riboflavin estimation in fruits and vegetables. G. Mackinney and J. M. Sugihara. Am Chem Soc J 64:1980-1 Ag '42

Vitamin B_6

Chemistry of vitamin B_6; reactions in solutions at elevated temperatures. S. A. Harris. Am Chem Soc J 63:3363-7 D '41

Effect of pyridoxine on the urinary excretion of a new fluorescent substance. S. A. Singal and V. P. Sydenstricker. Science 94:545 D 5 '41

Occurrence of fits in pyridoxine deficient rats. S. Lepkovsky, M. E. Krause and M. K. Dimick. Science 95:331-2 Mr 27 '42

Physiological activity and experimental clinical use of vitamin B_6 (pyridoxine). 35 numb l bibliog(l 27-35) Merck & co, Rahway, N.J. '41

Pyridoxine as a growth factor for graphium. P. K. Burkholder and I. McVeigh. Science 95:127-8 Ja 30 '42

Vitamin B_6 and growth of excised tomato roots in agar culture. D. Day. bibliog Science 94:468-9 N 14 '41

Vitamin C

Beat the heat; vitamin C staves off prostration. Sci Am 167:120 S '42

Chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C in monkeys. H. F. Fraser. bibliog Pub Health Rep 57:959-67 Je 26 '42

Does light have any effect on glass-packed foods? J. J. Powers and W. B. Esselen, jr. bibliog il Cer Ind 39:36-8 Ag '42

Heat beater. Dun's R 50:26+ S '42

Mouth lesions in monkeys associated with a chronic deficiency of (1) calcium, (2) vitamin C, and (3) both calcium and vitamin C. H. F. Fraser and N. H. Topping. Pub Health Rep 57:968-73, pl 1-3 Je 26 '42

Oxidation and reduction of vitamin C. D. B. Hand and E. C. Greisen. bibliog Am Chem Soc J 64:358-61 F '42

Pathology of artificially induced scurvy in the monkey, with and without chronic calcium deficiency. T. H. Tomlinson, jr. bibliog Pub Health Rep 57:987-93, pl 1-2 Jl 3 '42

Prices limited by OPA. Oil Paint & Drug Rep 141:7+ F 16 '42

Vitamin C content of persimmon leaves and fruits. C. G. Vinson and F. B. Cross. Science 96:430-1 N 6 '42

Vitamin C for the Axis. Business Week p82 Ag 15 '42

Vitamin C in the war. H. N. Holmes. Science 96:384-6 O 23 '42

Vitamin C prevents heat cramps and heat prostration; abstract. J. H. Foulger. Science 95:sup12 Je 19 '42

You can't hurt a vitamin by biting it. E. F. Kohman. Food Ind 14:112-13 N '42

See also
Ascorbic acid

Vitamin D

Applications of molecular distillation; vitamin D and E. D. D. Howat. bibliog Chem Age (Lond) 46:53 Ja 24 '42

7-Dehydrocampesterol, a new provitamin D. W. L. Ruigh. bibliog Am Chem Soc J 64:1900-2 Ag '42

Light absorption of geometrical isomerides and the structure of vitamin-*D*. H. P. Koch. bibliog Chem & Ind 61:273-5 Je 20 '42

Oxidative destruction of vitamin D. J. C. Fritz and others. bibliog Ind & Eng Chem 34:979-82 Ag '42

Treatment of two hundred cases of chronic arthritis with electrically activated vaporized sterol. R. G. Snyder and others. bibliog il Ind Med 11:295-316 Jl '42

Vitamin E

3-Acetoxy-6-hydroxy-2,4,5-trimethylbenzylacetoacetic ester, and its transformation into chromene and chroman derivatives. L. I. Smith and R. B. Carlin. Am Chem Soc J 64:435-40 F '42

Applications of molecular distillation; vitamins D and E. D. D. Howat. bibliog Chem Age (Lond) 46:53 Ja 24 '42

Chemistry of vitamin E; a new synthesis of 6-hydroxychromans, including α-tocopherol. L. I. Smith and H. C. Miller. bibliog Am Chem Soc J 64:440-5 F '42

Chemistry of vitamin E; behavior at the dropping mercury electrode of quinones related to vitamin E. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:644-5 Mr '42

Chemistry of vitamin E; calcium α-tocopheryl succinate. L. I. Smith, W. B. Renfrow, jr. and J. W. Opie. bibliog Am Chem Soc J 64:1084-6 My '42

Chemistry of vitamin E; 3,5-dinitrobenzazide as a reagent for preparation of derivatives of tocopherols. L. I. Smith and J. A. Sprung. bibliog Am Chem Soc J 64:433-4 F '42

Chemistry of vitamin E; the amperometric titration of α-tocopherol with auric chloride at the dropping mercury electrode. L. I. Smith, I. M. Kolthoff and L. J. Spillane. bibliog Am Chem Soc J 64:646-8 Mr '42

Chemistry of vitamin E; the behavior of tocopherols at the dropping mercury electrode. L. I. Smith, L. J. Spillane and I. M. Kolthoff. bibliog Am Chem Soc J 64:447-51 F '42

Chemistry of vitamin E; the three dimethylethyltocols. L. I. Smith and W. B. Renfrow, jr. bibliog Am Chem Soc J 64:445-7 F '42

Chemistry of vitamin E; α-tocopheramine, a new vitamin E factor. L. I. Smith, W. B. Renfrow, jr. and J. W. Opie. bibliog Am Chem Soc J 64:1082-4 My '42

Effect of vitamin E on the blood plasma lipids of the chick. H. Dam and E. M. Kelman. Science 96:430 N 6 '42

Factors influencing capillary permeability in the vitamin E deficient chick. H. Dam and J. Glavind. bibliog Science 96:235-6 S 4 '42

International standard for vitamin-*E*. Chem & Ind 60:749 O 18 '41

Vitamin F (B_1)

See Vitamins—Vitamin B_1

Vitamin K

Chemotherapy. G. S. Whitby. Can Chem & Process Ind 26:111-12 F '42

Colorimetric test for vitamin K. F. Irreverre and M. X. Sullivan. bibliog Science 94:497-8 N 21 '41

Condensation of allylic alcohols with hydroxyhydroquinones. L. F. Fieser and M. D. Gates, jr. bibliog Am Chem Soc J 63:2948-53 N '41

Detection and quantitative determination of 4-amino-2-methyl-1-naphthol; a synthetic vitamin K. A. R. Menotti. Ind & Eng Chem Anal ed 14:601-2 Jl 15 '42

Effect of synthetic vitamin K on the rate of acid formation in the mouth. L. S. Fosdick, O. E. Fancher and J. C. Calandra. Science 96:45 Jl 10 '42

Preparation of 2-methyl-3-*n*-hexadecyl-1,4-naphthoquinone. M. Tishler and N. L. Wendler. Am Chem Soc J 63:3235-6 N '41

Vitamin P

Isolation of a new oxidation-reduction enzyme from lemon peel (vitamin P). C. Z. Wawra and J. L. Webb. bibliog Science 96:302-3 S 25 '42

VITREOSIL. See Silica, Fused

VITRIFICATION

Dielectric behavior, supercooling, and vitrification of certain chlorobutanes and chloropentanes. T. Turkevich and C. P. Smyth. bibliog Am Chem Soc J 64:737-45 Ap '42

VOCABULARIES

Children's speech; distribution of words. G. K. Zipf. Science 96:344-5 O 9 '42

VOCAL cords. See Voice

VOCATIONAL education

Administering vocational education. W. H. Magill. 118p $1.60 Educational pubs, 720 Washington av, S.E, Minneapolis '41

Backward look for a forward plan; need for reformulating our educational system. F. C. Hockema. Elec Eng 61:406-14 Ag '42

Buffalo's N.Y.A. training shop. il Sheet Metal Worker 32:29-30+ N '41

Developments in vocational training, 1941. W. L. Cassiday. bibliog Paper Tr J 114:38 F 5 '42

Group methods of studying occupations; a revision of Teaching about vocational life. M. E. L. Billings. 2d ed 513p $3 International textbook co, Scranton, Pa. '41

Materials and methods for vocational training. W. E. Hill and C. H. Ewing. 171p $2 McGraw-Hill '42

Promotion of vocational training by public employment offices. Monthly Labor R 54:989-90 Ap '42

Vocation training in North Jersey schools. A. A. Fisk, jr. East Underw 43:6 Mr 20 '42

Vocational education and the war. A. G. Grace. Mech Eng 64:664-6+ S '42; Same. Elec Eng 61:520-3 O '42

Vocational education in Brazil. Int Labour R 46:75-7 Jl '42

See also

Agricultural education
Apprentices
Chemical education
Employees, Training of
Engineering education
Industrial education
Library schools and training
Mining schools and education
National youth administration
Technical education
Trade schools

also Delehanty institute; Great Lakes college, Ferndale, Michigan; Tuskegee normal and industrial institute

Federal aid

Classes in distributive education ask selling helps from manufacturers. Sales Management 49:24-6, 28+ D 15 '41

Government and Delta give an intensive course for aircraft instrument mechanics. C. F. Nisbet, jr. il Instruments 15:100-1+ Ap '42

Public schools now train salesmen through distributive education plan, provided by George-Deen act. E. J. Hegarty. Ptr Ink 197:27, 30, 32 D 12 '41

Training our youth for the future; National youth administration set up concrete block plant. E. M. Waggoner. il Rock Prod 45:108-9 Ag '42

Vocational training for defense industries. Monthly Labor R 53:1148-53 N '41

War production offensive speeds up training for industrial army; Apprentice-training services, War man-power commission. W. F. Patterson. il Foundry 70:74-5+ N '42

VOCATIONAL guidance

Administering the guidance program. E. G. Johnston. 129p bibliog(p127-9) $1.60 Educational pubs, 720 Washington av, S.E, Minneapolis '42

Dynamics of vocational adjustment. D. E. Super. 286p $3 Harper '42

Guidance methods for teachers in home-room, classroom, core program. C. C. Dunsmoor and L. M. Miller. 382p $2.50 International textbook co, Scranton, Pa. '42

History of vocational guidance; origins and early development. J. M. Brewer and others. 344p $4 Harper '42

Occupational follow-up and adjustment service plan. rev ed 118p bibliog(p117-18) pa 50c Nat. assn. of secondary-school principals, 1201 16th st, NW, Washington, D.C. '41

Report of the commission on post-war training and adjustment; a statement of principles relating to the educational problems of returning soldiers, sailors, and displaced war industry workers. 54p gratis Teachers college '42

Student personnel problems; a study of new students and personnel services. C. G. Wrenn and R. Bell. 235p bibliog(p197-205) $2 Farrar '42

Wheat Ridge high school guidance manual. P. C. Stevens and J. N. Farquhar. 121p Wheat Ridge public schools, P. C. Stevens, supt, Wheat Ridge, Colo. '41

See also

Occupations

VOCATIONAL rehabilitation. See Disabled—Rehabilitation

VOCATIONAL schools. See Trade schools

VOICE

Adolescent voice ranges and materials published for adolescent voices. L. Y. Ayres and K. Roduner. 50p pa 35c Univ. of Oregon, Eugene '42

Laryngeal ventricle considered as an acoustical filter. A. Pepinsky. bibliog Acoustical Soc Am J 14:32-5 Jl '42

Some aspects of model larynx function. R. Carhart. il Acoustical Soc Am J 14:36-40 Jl '42

Voice science. L. S. Judson and A. T. Weaver. 377p bibliog(p351-68) $3.75 Crofts '42

See also

Speech

VOICE operated relays

Voice-frequency signalling and dialling in long-distance telephony. W. G. Radley and E. P. G. Wright. bibliog il diags Inst E E J 89 pt 3:43-64 Mr '42; Abstract. Electrician 128:9 Ja 2 '42; Discussion. Inst E E J 89 pt 3:64-73, 178-90 Mr, S '42; Electrician 128:9-10 Ja 2 '42

VOLATILITY

Binary mixtures for testing fractionating columns at atmospheric and reduced pressures. L. B. Bragg and A. R. Richards. bibliog Ind & Eng Chem 34:1088-91 S '42

See also

Gasoline—Volatility

VOLCANOES

Bombing a lava stream. F. Thone. Science 95:sup8-9 My 29 '42

Calderas and their origin. H. Williams. (Dept. of geological sciences bul. v. 25, no. 6) 346p bibliog(p342-6) pa $1.25 Univ. of California press, Berkeley '41

Nails from ruins of St Pierre, examined for evidence of conditions existing in the nuée ardente. G. H. Enzian, H. F. Beeghly and P. P. Tarasov. il Metal Prog 41:208-11, 522-6 F, Ap '42

New theory of the origin and nature of life; that emanations from volcanoes, sulfurous, cyanic and ammoniacal, produce micro-organisms by chemical synthesis. A. L. Herrera. Science 96:14 Jl 3 '42

Sedimentation and volcanism in the Hopi Buttes, Arizona. J. T. Hack. bibliog diags maps Geol Soc Bul 53:335-72, pl 1-5 F '42

See also

Rocks, Igneous

Hawaiian Islands

Origin of Haleakala crater, Island of Maui, Hawaii. H. T. Stearns. bibliog il Geol Soc Bul 53:1-13, pl 1 Ja '42

VOLTAGE

Coordination of distribution and power supply system voltages. C. E. Arvidson. Edison Elec Inst Bul 10:295-7 Ag '42; Same. Elec W 118:769-71 S 5 '42

Discharge voltage and return voltage curves for absorptive capacitors. B. Gross. Phys R 62:383-7 O 1 '42

Effect of fluctuation voltages on the linear detector. J. R. Ragazzini. diags Inst Radio Eng Proc 30:277-88 Je '42

How to make voltage drop calculations for 60-cycle circuits. charts Elec W 117:2095 Je 13 '42

How, while still using standard equipment, to lift 220-volt secondaries to 254. F. W. Richart. diag Coal Age 47:61 Ja '42

VOLTAGE—*Continued*

Measurement of lightning voltages and currents in Nigeria, 1938-1939. F. R. Perry, G. H. Webster and P. W. Baguley. bibliog diags Inst E E J 89 pt 2:185-203, pl 1-4; Discussion. 203-9 Je '42

Measurement of lightning voltages and currents in South Africa and Nigeria, 1935 to 1937. F. R. Perry. bibliog diags pl Inst E E J 88 pt 2:69-87 Ap '41; Discussion 88 pt 2:521-4 D '41

Meter registers average voltage. il diag Elec W 118:947-8 S 19 '42

Practical calculation of circuit transient recovery voltages. J. A. Adams and others. bibliog diags Elec Eng 61:Trans 771-9 N '42

Rectilinear rectification applied to voltage integration. S. S. Stevens. diags Electronics 15:40-1 Ja '42

Tests and analysis of circuit-breaker performance when switching large capacitor banks. T. W. Schroeder, E. W. Boehne and J. W. Butler. il diags Elec Eng 61:Trans 821-31 N '42

Transient recovery-voltage characteristics of electric-power systems. H. P. St Clair and J. A. Adams. Elec Eng 61:Trans 666-9 S '42

Transient recovery voltages and circuit-breaker performance. R. C. Van Sickle. bibliog il diags Elec Eng 61:Trans 804-12 N '42

Utilization voltages. H. P. Seelye. Elec Eng 61:Trans 147-51 Mr '42; Same. Edison Elec Inst Bul 10:83-7+ Mr '42

Zero sequence voltages. G. W. Stubbings. diags Electrician 129:110-12 Jl 31 '42

See also
High voltages
Voltmeters

VOLTAGE regulation

Booster improves 44-kv. regulation. diags Elec W 117:1848 My 30 '42

Boosting and bucking transformers. V. N. Friedman. diags Power Pl Eng 46:57-9 S '42

Capacitor-booster costs less than $100. il diag Elec W 117:332+ Ja 24 '42

Capacitors; effect on circuit performance when connected in series or in shunt. J. W. Butler. bibliog diags Gen Elec R 45: 577-83 O '42

Capacitors help Attleboro lift power factor, cut peak. H. W. Thompson. il diag Elec W 117:1337-9 Ap 18 '42

Change-out policy conserves materials. J. D. Malone, jr. Elec W 117:1702 My 16 '42

Comparison of equipment to minimize flicker voltage on power systems; tabulation. S. B. Griscom. Elec W 117:1528 My 2 '42

Constant voltage for ore bridge control; Inland steel company. W. M. Ballenger. diag Elec W 117:687-8 F 21 '42

Coordination of distribution and power supply system voltages. C. E. Arvidson. Edison Elec Inst Bul 10:295-7 Ag '42; Same. Elec W 118:769-71 S 5 '42

Estimating charts for 60-cycle line design. G. D. McCann. Elec W 117:643-5 F 21 '42

Factors contributing to improving electric service by means of high-speed switching and utilization of stored energy. J. T. Logan and J. H. Miles. il Elec Eng 60: Trans 1012-16 D '41

Flicker reduction affords comparison of alternatives. J. W. Anderson. diag Elec W 118:284-7 Jl 25 '42

Fluorescent lamp as a voltage stabilizer. L. G. Parratt and R. G. Stephenson. diag R Sci Instr 13:233-4 My '42

How to maintain constant linear speed and tension in material being unwound from one reel onto another. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110: 78, 80 Mr 30 '42

How to provide for wide-range d-c voltage adjustment in large mercury-arc rectifiers; use of voltage-regulating autotransformer; plants for producing aluminum. T. R. Rhea. il diag Gen Elec R 44:611-13 N '41

Improvements in preventive-coil control for a-c locomotives with particular reference to resistor transition. P. H. Hatch and H. S. Ogden. il diags Elec Eng 61:Trans 727-32 O '42

Lessons learned in serving resistance welders; service to single-phase welders reinforced to obviate flicker. C. N. Clark. Elec W 117:1505-7 My 2 '42

Long-distance power transmission by alternating current. E. Friedländer and C. J. O. Garrard. diags Engineering 153:1-3, 21-3, 41-3 Ja 2-16 '42

Preformed d.c. power; resistance in generator field for picking up heavy cross-the-line loads. J. M. Rairigh. il diag Coal Age 47: 41-3 Ja '42

Preventing and correcting voltage dips. C. W. Drake. il Factory Management 100:115-17 O '42

Sensitive d-c amplifier with a-c operation. S. E. Miller. diags Electronics 14:27-31+ N '41

Series capacitors correct welder voltage fluctuations. E. L. Harder and L. Gise. diag Elec W 117:1656-8 My 16 '42

Shunt and series capacitor use. W. E. Enns. diag Elec West 88:100-3 Je '42

Static balancers. il Electrician 129:67-8 Jl 17 '42; Same cond. Engineering 154:78 Jl 24 '42

Supplying kilovar loads for war conservation and economy. M. C. Miller. diags Edison Elec Inst Bul 10:363-8+ O '42

Three-phase motor starting on 4-wire systems; method for approximating voltage regulation. B. Shipley. Elec W 116:1600 N 15 '41

Transformer shift improves voltage. diag Elec W 116:1910+ D 13 '41

Voltage stabilizer for a direct-current generator. W. M. Schwarz. diag R Sci Instr 13: 213-14 My '42

Voltage variation tolerance for a.c. resistance welding. L. G. Levoy. bibliog Welding J 21:454-60 Jl '42

VOLTAGE regulators

Aircraft voltage regulator and cutout. R. C. Jones, D. W. Exner and S. H. Wright. il diags Elec Eng 61:Trans 334-9 Je '42

Automatic voltage regulators improve kilowatt quality. A. M. Shong. il diag Power 86:229-30+ Ap '42

Ballast tubes as automatic voltage regulators. S. G. Taylor. il diags Electronics 15: 26-30 Ja '42

Connections for voltage regulators operating in parallel. B. Wood. diags Engineer 173: 187 F 27 '42

Control and regulation of utility-industrial ties. L. F. Stone. diags Elec W 117:1171-3 Ap 4 '42

Control of voltage regulators. diag Engineer 173:491-2 Je 12 '42; Same. Electrician 128: 537-9 My 29 '42; Same cond. Elec R (Lond) 131:43-5 Jl 10 '42

Convert regulators for outdoor service. il Elec W 118:305 Jl 25 '42

Correct compensation will salvage revenue. B. E. Ellsworth. Elec W 118:324 Jl 25 '42

Direct-acting regulators on large Georgia generators. J. T. Logan. il diag Elec W 117: 1494-6 My 2 '42

Don't always blame the voltage regulator. A. M. Shong. Power 86:584 Ag '42

Electrical drives for wide speed ranges; addition of rotating regulator called Rototrol. G. A. Caldwell and W. H. Formhals. bibliog il diag Elec Eng 61:Trans 54-6 F '42

Electronic voltage stabilizer for 1 to 50 kv and 20 to 500 ma. L. G. Parratt and J. W. Trischka. diags R Sci Instr 13:17-23 Ja '42; Abstract. Electronics 15:88+ My '42

Gear-motor cuts regulator wear. E. R. Whitehead. il Elec W 117:667 F 21 '42

Indoor regulators used outdoors. il Elec W 116:1908 D 13 '41

Induction regulators given seasonal ratings. Elec W 118:790+ S 5 '42

Interim report on guides for overloading transformers and voltage regulators. Elec Eng 61:Trans 692-4 S '42

VOLTAGE regulators—*Continued*

Multi-purpose regulator aids voltage, load control. W. J. Lyman. il diags Elec W 117:648-50 F 21 '42

Natural air draft cools regulator. L. G. Tubbs. diag Elec W 117:1542+ My 2 '42

New high-speed generator regulator. diags Elec W 117:2090+ Je 13 '42

New voltage-regulating relay plus line-drop compensator. H. J. Carlin. diags Elec Eng 61:Trans 63-6 F '42

Pantograph jack for regulator coils. il Elec W 118:1462+ O 31 '42

Paralleled regulators for double capacity. diag Elec W 117:1848 My 30 '42

Rules for parallel operation of voltage regulators. F. M. Starr. diags Elec W 117:1210 Ap 4 '42

Sensitive valve voltmeter relay. S. S. Orlov and A. A. Pirogov. diags Wireless Eng 19:347-50 Ag '42; Abstract. Electronics 15:102+ N '42

Simplified method of calculating line-drop compensator settings. M. W. Keck and T. J. Kozak. Elec Eng 61:336-7 Je '42

Speeds rewinding of regulator rotors. O. J. Harrington. il Elec W 118:1143-4 O 3 '42

Static voltage regulator insensitive to load power factor. C. M. Summers and T. T. Short. diags Elec Eng 61:Trans 67-70 F '42

Switch scheme for feeders, regulators. diag Elec W 118:488+ Ag 8 '42

To keep little motors going when the big motor starts. W. K. Boice. il Factory Management 100:99-100 My; 118-20 Jl '42

Use feeder regulators, save critical materials. O. B. Falls. diags Elec W 117:71-3 Ja 10 '42

Voltage-regulating inverse time relay. H. J. Carlin. diag Elec W 118:1308+ O 17 '42

Voltage regulator for a densitometer lamp. S. L. Parsons. bibliog diags Opt Soc Am J 32:153-5 Mr '42

Westinghouse electronic voltage regulator. il Blast F & Steel Pl 30:925-6 Ag '42; Same. R Sci Instr 13:407-8 S '42

VOLTAGE standards

Lamps and voltages should be standardized. S. G. Hibben. Nat Safety N 44:36 D '41

Stabilize level and spread of utilization voltage. C. E. Arvidson. Elec W 116:1565-7 N 15 '41

Use of heavy water in producing a more constant standard volt. Science 94:sup16 D 19 '41

Utilization voltage standardization recommendations. Edison Elec Inst Bul 10:243-4 Je '42

Utilization voltages. H. P. Seelye. Elec Eng 61:Trans 147-51 Mr '42; Same. Edison Elec Inst Bul 10:83-7+ Mr '42

VOLTMETERS

Changes instrument scale automatically by means of special contacts on regulator. il diag Elec W 118:629 Ag 22 '42

Electrostatic voltmeter as a d.c./a.c. transfer instrument; errors appear to be due to semi-conducting films on surfaces of elements; believed to be absent in voltmeters with working surfaces of freshly-cleaned platinum. R. S. J. Spilsbury and A. Felton. diags Inst E E J 89 pt 2:129-32; Discussion. 133-6 Ap '42

How to connect bus voltmeter and synchronizing equipment; diagrams. Elec W 117:1376 Ap 18 '42

Inkless recording. P. E. Twiss. il diag Gen Elec R 45:511-14 S '42

Maintenance and servicing of electrical instruments; a.c. voltmeters. J. Spencer. il diags Instruments 15:48, 50-7 F '42

New moving-magnet instrument for direct current. H. T. Faus and J. R. Macintyre. il diags Elec Eng 61:Trans 586-8 Ag '42

Use of recording ammeters and voltmeters in welding. H. Lawrence. il Steel 109:54, 56+ D 15 '41

Testing

Salford test panel for voltmeters and ammeters. il diag Engineering 152:327 O 24 '41

VOLTMETERS, Vacuum tube

Continuous-reading electronic voltmeter for use with glass and other high-resistance electrode systems. C. J. Penther, F. B. Rolfson and L. Lykken. bibliog il diags Ind & Eng Chem Anal ed 13:831-4 N 15 '41

Electronic potentiometer. M. A. Honnell. il diags Inst Radio Eng Proc 30:433-6 O '42

General radio co.'s vacuum-tube voltmeter. il R Sci Instr 13:304 Jl '42

Hewlett-Packard vacuum tube voltmeter. il R Sci Instr 13:270 Je '42

High-speed condenser timer for testing. E. T. Vickerman, jr. and S. E. Edelstein. diags Elec W 117:1534+ My 2 '42; Abstract. Electronics 15:70+ S '42

Photoflash synchronizer tester. P. A. Marsal. il diags Electronics 15:34-5 Ja '42

Portable vacuum-tube voltmeter. il Electronics 15:104 Jl '42

Sensitive feedback voltmeter with rugged milliammeter indicator. L. Fleming. diags Electronics 15:88+ Ap '42

Sensitive vacuum tube voltmeter for ac, dc, and radio frequency. R. P. Turner. il diags Radio N 28:18-19+ Ag '42

Sensitive valve voltmeter relay. S. S. Orlov and A. A. Pirogov. diags Wireless Eng 19:347-50 Ag '42; Abstract. Electronics 15:102+ N '42

Stabilized ionization gauge circuit with vacuum tube voltmeter. J. Rainwater. diags R Sci Instr 13:118-22 Mr '42

Transient peak voltmeter. J. E. Hancock and B. R. Shepard. il diags Gen Elec R 45:331-3 Je '42; Abstract. Electronics 15:104+ O '42

VOLUME

Changes in volume on mixing solutions. P. W. Parsons and F. J. Estrada. Ind & Eng Chem 34:949-52 Ag '42

Circulating liquid volume in horizontal cylindrical tanks. W. F. Schaphorst. Water Works & Sewerage 89:139 Mr '42

Measuring soil-sample volume by improved methods. A. S. Carey and H. T. Harstad. diag Eng N 128:419-20 Mr 12 '42

Quantities of cylindrical intersections; water supply, subway, and other construction. L. J. Sack. diags Eng N 128:618-21 Ap 23 '42

VOLUME, Molecular. See Molecular volume

VOLUME, Specific. See Specific volume

VOLUMETERS

Improved mercury balance volumeter. S. Speil and H. Wilson. bibliog il diag Am Cer Soc J 25:275-7 Je 1 '42

Progress report on volumeter research. R. J. S. Pigott. Am Pet Inst Proc 22(4):54-5 '41

VOLUMETRIC analysis

Acid-base titration of proteins. R. K. Cannan. bibliog Chem R 30:395-412 Je '42

Acidimetric orthophosphoric acid assay. J. A. Calamari and R. Hubata. Ind & Eng Chem Anal ed 14:55-6 Ja 15 '42

Amperometric titration of copper with benzoinoxime. A. Langer. bibliog Ind & Eng Chem Anal ed 14:283-5 Mr 15 '42

Amperometric titrations; amperometric determination of phosphate with uranyl acetate. I. M. Kolthoff and G. Cohn. bibliog Ind & Eng Chem Anal ed 14:412-18 My 15 '42

Analysis of indium alloys. C. W. Hopkins. bibliog Ind & Eng Chem Anal ed 14:638-9 Ag 15 '42

Analysis of sulphate white and green liquors; TAPPI tentative standard T 624 m-42. Paper Tr J 115:30-2 S 10 '42

Analytical procedures employing Karl Fischer reagent; reactions with inorganic oxides and related compounds; oxidation and reduction reactions. J. Mitchell, jr. and others. bibliog Am Chem Soc J 63:2927-30 N '41

Analytical procedures employing Karl Fischer reagent; the determination of water of hydration in salts. W. M. D. Bryant and others. bibliog Am Chem Soc J 63:2924-7 N '41

Application of potentiometric methods to developer analysis. J. G. Stott. bibliog il Soc Motion Picture Eng J 39:37-54 Jl '42

VOLUMETRIC analysis—*Continued*

Assay of benzaldehyde; use of hydroxolammonium sulfate and aqueous sodium hydroxide. M. Schubert and J. G. Dinkelspiel. bibliog Ind & Eng Chem Anal ed 14:154-5 F 15 '42

Chemical analysis; titration procedure. H. J. S. Sand. il Elec R (Lond) 131:328-9 S 11 '42

Chemistry of vitamin E; the amperometric titration of α-tocopherol with auric chloride at the dropping mercury electrode. L. I. Smith, I. M. Kolthoff and L. J. Spillane. bibliog Am Chem Soc J 64:646-8 Mr '42

Conductometric assay of inorganic salt in the presence of wetting agents. J. H. Percy and C. J. Arrowsmith. bibliog Ind & Eng Chem Anal ed 14:151-3 F 15 '42

Conductometric determination of ammonia; application to nitrogen distribution studies. R. H. Hendricks and others. bibliog diag Ind & Eng Chem Anal ed 14:23-6 Ja 15 '42

Conductometric titrations in non-aqueous solutions; study of acid-base equilibria in monoethanolamine and formation of complex ammines in ethanol. J. T. Pinkston and H. T. Briscoe. J Phys Chem 46:469-73 Ap '42

Determination of alcohol by volume in distilled liquors. L. C. Cartwright. Ind & Eng Chem Anal ed 14:237-9 Mr 15 '42

Determination of alkoxyl groups in cellulose ethers. E. P. Samsel and J. A. McHard. bibliog il diags Ind & Eng Chem Anal ed 14:750-4 S 15 '42

Determination of antimony in lead-antimony alloys. L. A. Wooten and C. L. Luke. bibliog Ind & Eng Chem Anal ed 13:771-3 N 15 '41

Determination of available chlorine in solutions containing textone. J. F. White. Am Dyestuff Rep 31:484-7 S 28 '42

Determination of calcium in the presence of magnesium by standard soap solution; a rapid titration method. J. W. Polsky and others. bibliog Ind & Eng Chem Anal ed 14:644-6 Ag 15 '42

Determination of carbonyl groups in bile preparations. A. E. Light. Ind & Eng Chem Anal ed 14:42-3 Ja 15 '42

Determination of copper and nickel in steels; determination of copper by electro-deposition and nickel by cyanide titration. L. Silverman, W. Goodman and D. Walter. Ind & Eng Chem Anal ed 14:236-7 Mr 15 '42

Determination of copper in textile materials treated to prevent mildew. C. L. Hoffpauir and R. T. O'Connor. bibliog Am Dyestuff Rep 31:395-8 Ag 17 '42

Determination of copper reduced by sugars; use of ceric sulfate as a volumetric reagent. A. H. Best, A. H. Peterson and H. M. Sell. bibliog Ind & Eng Chem Anal ed 14:145-6 F 15 '42

Determination of hydrazine; a rapid ferricyanide-ceriometric method. C. J. Dernbach and J. P. Mehlig. bibliog Ind & Eng Chem Anal ed 14:58-60 Ja 15 '42

Determination of iodate and other oxidizing agents in the presence of cupric salts; use of the iodine monochloride end point. E. H. Swift and T. S. Lee. bibliog Ind & Eng Chem Anal ed 14:466-8 Je 15 '42

Determination of olefins in gaseous hydrocarbons. B. R. Stanerson and H. Levin. bibliog diags Ind & Eng Chem Anal ed 14:782-4 O 15 '42

Determination of small quantities of fluoride in water; a modified zirconium-alizarin method. W. L. Lamar and C. G. Seegmiller. bibliog Ind & Eng Chem Anal ed 13:901-2 D 15 '41

Determination of thiosulfate in used doctor solution. K. Uhrig and H. Levin. bibliog Ind & Eng Chem Anal ed 14:547-8 Jl 15 '42

Determination of zinc in rubber compounds; a new internal indicator method. W. P. Tyler. bibliog Ind & Eng Chem Anal ed 14:114-18 F 15 '42

Distribution of salt in butter; a volumetric micromethod. C. L. Ogg and others. diags Ind & Eng Chem Anal ed 14:285-6 Mr 15 '42

Effect of substituents on the acid strength of benzoic acid; in *n*-propyl alcohol. J. H. Elliott. bibliog J Phys Chem 46:221-7 F '42

Electrometric titration in alkaline pulping. G. J. Crocker and others. bibliog diags Paper Tr J 115:33-40 N 5 '42

End point of microtitrations with color indicators. A. A. Benedetti-Pichler and S. Siggia. bibliog diags Ind & Eng Chem Anal ed 14:828-32 O 15 '42

Estimation of COOH groups in commercial starches modified by oxidation; silver method; copper method. L. H. Elizer. Ind & Eng Chem Anal ed 14:635-6 Ag 15 '42

Estimation of magnesium with 8-hydroxyquinoline; microtitration and photometric procedures. L. Gerber, R. I. Claassen and C. S. Boruff. bibliog Ind & Eng Chem Anal ed 14:658-61 Ag 15 '42

Estimation of ortho-, pyro-, meta-, and polyphosphates in the presence of one another. L. T. Jones. bibliog Ind & Eng Chem Anal ed 14:536-42 Jl 15 '42

Fluorescein as an indicator in bromometric titrations. F. L. Hahn. Ind & Eng Chem Anal ed 14:571 Jl 15 '42

Further notes on the determination of ascorbic acid and sulphur dioxide in fruit juices. H. F. W. Kirkpatrick. Soc Chem Ind J 60:298-9 N '41

Improved semimicrodetermination of sulfur in organic materials; peroxide-carbon fusion followed by a titration using tetrahydroxyquinone indicator. J. F. Mahoney and J. H. Michell. bibliog Ind & Eng Chem Anal ed 14:97-8 Ja 15 '42

Location of the end point on certain graphical titration curves. A. Langer and D. P. Stevenson. bibliog Ind & Eng Chem Anal ed 14:770-3 O 15 '42

Modified electrometric determination of metallic silver by a dead-stop end-point procedure. R. H. Lambert and R. D. Walker. Ind & Eng Chem Anal ed 13:846-8 N 15 '41

New indicators for iodate-iodine monochloride Andrews analytical procedures. G. F. Smith and C. S. Wilcox. Ind & Eng Chem Anal ed 14:49-53 Ja 15 '42

New method of determining residual chlorine. H. C. Marks and J. R. Glass. bibliog diag Am Water Works Assn J 34:1227-40 Ag '42

Potentiometric determination of vitamin C; combined use of 2,6-dichlorophenolindophenol and iodate. J. B. Ramsey and E. L. Colichman. bibliog Ind & Eng Chem Anal ed 14:319-21 Ap 15 '42

Potentiometric study of the oxidation of phenylhydrazine by cupric ions, including the titration of Fehling's solution with phenylhydrazine. H. T. S. Britton and E. M. Clissold. Chem Soc J p528-31 Ag '42

Potentiometric titration of dibasic acids in dioxane-water mixtures. R. H. Gale and C. C. Lynch. Am Chem Soc J 64:1153-7 My '42

Proposed method of test for neutralization number of petroleum products by electrometric titration. diag Am Soc T M Proc 41:342-7 '41

Quantitative investigations of amino acids and peptides; equilibria between amino acids and formaldehyde. E. H. Frieden, M. S. Dunn and C. D. Coryell. bibliog diag J Phys Chem 46:215-21 F '42

Quantitative tests for residual hypo; application for quantity production enlargements. E. Cary and A. H. Wheeler. il Am Phot 36:16-18 F '42

Rapid determination of aluminium in magnesium alloys by means of 8-hydroxyquinoline (oxine). C. H. Wood. Soc Chem Ind J 61:29-31 F '42

Rapid method of measuring the unsaturation of hydrogenated fats. H. Jasperson. bibliog Soc Chem Ind J 61:115-16 Jl '42

Rapid procedure for determination of carbonate. A. C. Kuyper and L. M. Jones. Ind & Eng Chem Anal ed 13:801-2 N 15 '41

Rapid volumetric method for determination of sulfate ion. M. Randall and H. O. Stevenson. bibliog Ind & Eng Chem Anal ed 14:620-1 Ag 15 '42

VOLUMETRIC analysis—*Continued*

Semimicrochemical assay for diethylstilbestrol. C. W. Sondern and C. Burson. Ind & Eng Chem Anal ed 14:358-9 Ap 15 '42

Standard solutions for volumetric analysis. Pulp & Pa of Can 43:444-5 My '42

Sulfur in organic compounds containing nitrogen and halogen; acidimetric microdetermination. E. L. Brewster and W. Rieman, 3d. bibliog diag Ind & Eng Chem Anal ed 14:820-1 O 15 '42

Titration of bromide and iodide ions with mercuric nitrate solution using diphenyl carbazide indicator. H. R. McCleary. bibliog Ind & Eng Chem Anal ed 14:31-2 Ja 15 '42

Titration of soluble sulphides. G. Spencer. Soc Chem Ind J 61:132 Ag '42

Use of aldehydes in the analysis of sulphate liquors for total alkali. D. R. Moltzau. Paper Tr J 115:38-42 Jl 30 '42; Abstract. Paper Ind 24:310-12 Je '42

Volumetric determination of bismuth as caffeine tetraiodobismuthate (III). R. S. Beale and G. C. Chandlee. bibliog Ind & Eng Chem Anal ed 14:43-4 Ja 15 '42

Volumetric determination of iron and titanium. W. M. McNabb and H. Skolnik. bibliog Ind & Eng Chem Anal ed 14:711-13 S 15 '42

Volumetric determination of moisture in cotton textiles. J. F. Keating and W. M. Scott. bibliog Am Dyestuff Rep 31:308-10 Je 22 '42

Volumetric determination of sulfates; tetrahydroxyquinone as an external indicator. S. W. Lee and others. Ind & Eng Chem Anal ed 14:839-40 O 15 '42

Volumetric determination of sulfur in coal and coke. S. S. Tomkins. bibliog Ind & Eng Chem Anal ed 14:141-5 F 15 '42

Volumetric method for determining tin based on the formation of a dioxalatothiometastannate. H. H. Willard and T. Y. Toribara. Ind & Eng Chem Anal ed 14:716-18 S 15 '42

See also

Colorimetric analysis
Iodometry
Turbidimetric analysis

Apparatus

Apparatus for precision calibration of pipets, volumetric flasks, and burets. W. R. Thompson. diags Ind & Eng Chem Anal ed 14:268-71 Mr 15 '42

Continuous-reading electronic voltmeter for use with glass and other high-resistance electrode systems. C. J. Penther, F. B. Rolfson and L. Lykken. bibliog il diags Ind & Eng Chem Anal ed 13:831-4 N 15 '41

Evaporation of standard solution from the tips of microburets. A. A. Benedetti-Pichler and S. Siggia. bibliog Ind & Eng Chem Anal ed 14:662-3 Ag 15 '42

Glass electrode as a reference electrode in electrometric titrations. L. Lykken and F. D. Tuemmler. bibliog il Ind & Eng Chem Anal ed 14:67-9 Ja 15 '42

Improved methoxyl apparatus. A. J. Bailey. bibliog diag Ind & Eng Chem Anal ed 14:181 F 15 '42

Mercury azotometer for determination of organic nitrogen by the micro-Dumas method. R. G. Clarke and W. R. Winans. bibliog diag Ind & Eng Chem Anal ed 14:522-3 Je 15 '42

Potentiometric titrations; a review with bibliography. N. H. Furman. diags Ind & Eng Chem Anal ed 14:367-82 bibliog(630 references, p377-82) My 15 '42

Testing of glass volumetric apparatus. E. L. Peffer and G. C. Mulligan. diags U S Nat Bur Stand Circ C434:1-27; pa 10c Supt. of doc. '41

Bibliography

Potentiometric titrations; a review with bibliography. N. H. Furman. diags Ind & Eng Chem Anal ed 14:367-82 bibliog(630 references, p377-82) My 15 '42

VOLUMETRIC apparatus

See also

Volumeters
Volumetric analysis—Apparatus

Testing

Methods of testing volumetric glassware. J. J. Moran. diags Am Soc T M Proc 41:492-7 '41

VOLUNTARY trusts. See Trusts and trustees—Living trusts

VOLUSTAT

Fisher Volustat. il R Sci Instr 13:371-2 Ag '42

VON KÁRMÁN, Theodore, 1881-

Dr Theodore von Kármán chosen for Sylvanus Albert Reed award. J Aeronautical Sci 9:68 D '41

VORTEX motion

Some vortex theorems of hydrodynamics. M. M. Munk. J Aeronautical Sci 9:90-6 Ja '42

VOUCHERS

Simple hand-posted voucher register system. E. W. Hartman. N A C A Bul 23:589-98 Ja 1 '42

VULCANIZATION

Chemical reactions during vulcanization. E. A. Hauser and M. C. Sze. bibliog J Phys Chem 46:118-31 Ja '42

Cold vulcanization of rubber under stress. A. W. Beucker. il diag India Rubber W 105:259-63 D '41

Critical examination of some concepts in rubber chemistry. T. Midgley, jr. bibliog Ind & Eng Chem 34:891-6 Jl '42; Abstract. Oil & Gas J 41:54-5 Je 4 '42

Curing rate of rubber; effect of phosphate buffer mixtures on rate of cure of crepe rubber. E. B. Newton. bibliog Ind & Eng Chem 34:374-8 Mr '42

Effect of reinforcing pigments on rubber hydrocarbon. F. S. Thornhill and W. R. Smith. bibliog il Ind & Eng Chem 34:218-24 F '42

Evaluation of the buffer capacity of crude rubbers. E. B. Newton and E. A. Willson. Ind & Eng Chem 34:378-82 Mr '42

Naftolen as compounding material for synthetic rubbers of the Buna N type. F. Rostler and V. Mehner. Rubber Age 51:125-8 My '42

Perbunan properties and compounding. R. A. Moll, R. M. Howlett and D. J. Buckley. bibliog Ind & Eng Chem 34:1284-91 N '42

Rubber, polyisoprenes, and allied compounds; the molecule-linking capacity of free radicals and its bearing on the mechanism of vulcanisation and photo-gelling reactions. E. H. Farmer and S. E. Michael. Chem Soc J p513-19 Ag '42

Tensile testing of rubber compounds at high temperatures. R. Thorndike. il diags Rubber Age 50:345-52 F '42

What you can use; guide to materials suitable for various purposes in processing industries. Oil Paint & Drug Rep 142:58 Jl 13; 44 Jl 20; 61 Jl 27; 68 Ag 10; 62 Ag 17; 66 Ag 24 '42

See also

Rubber—Manufacture

Accelerators

Accelerators for latex and reclaim. India Rubber W 106:260 Je '42

Accelerators for latex: water soluble vs water-insoluble. H. H. Abernathy. Rubber Age 50:195-8 D '41

Action of organic accelerators in Buna S. G. R. Vila. bibliog Ind & Eng Chem 34:1269-76 N '42

Ambidex, activating plasticizer. India Rubber W 107:52 O '42

Compounding of guayule rubbers; effect of accelerator-curing agent combinations. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 105:565-9 Mr '42

Compounding of guayule rubbers; effect of accelerator-curing agent combinations on the resistance to sunlight. R. E. Morris, R. R. James and T. A. Werkenthin. India Rubber W 107:31-2 O '42

Polysulfide theory of accelerator action during vulcanization; evidence for the theory. R. E. Morris. bibliog Ind & Eng Chem 34:503-6 Ap '42

VULCANIZATION—Accelerators—*Continued*
What you can use; accelerators for rubber. Oil Paint & Drug Rep 142:71 O 19; 56 O 26; 70 N 9; 74 N 16; 48 N 23; 55 N 30; 74 D 14 '42 (to be cont)
What you can use; accelerators of rubber vulcanization. Oil Paint & Drug Rep 141:66 Je 29 '42

VULCANIZED fiber
Vulcanized fibre with wood core; Fybr-Tech. Product Eng 12:675 D '41

VULTEE aircraft, inc.
Earnings, 1940-1941. Comm & Fin Chr 155:1422 Ap 6 '42
Preferred stock offered. Comm & Fin Chr 154:1601-2 D 20 '41
Purchases holdings in Consolidated Aircraft. Comm & Fin Chr 154:1386, 1732 D 6, 30 '41

W

WAACS. See Women's army auxiliary corps

WABASH railway
Appraisal of two new Wabash bonds; new first mortgage and income bonds series A priced conservatively. F. M. Stern. Barron's 22:18 Ag 17 '42
Assumption of obligation and liability. Comm & Fin Chr 156:1616 N 2 '42
Control by Pennsylvania railroad permitted by ICC. Comm & Fin Chr 155:1847 My 11 '42
Delivery of new securities and cash payments. Comm & Fin Chr 155:2464 Je 29 '42
Equipment trust offered. Comm & Fin Chr 156:704 Ag 24 '42
Income account for calendar years, 1940 and 1941. Comm & Fin Chr 155:2103 Je 1 '42
Pitcairn elected president of Wabash. Ry Age 112:1075+ My 30 '42
Reorganization managers to arrange for purchase of properties. Comm & Fin Chr 154:1195 N 25 '41
Road sold at foreclosure. Comm & Fin Chr 154:1386 D 6 '41

WACHSMANN, Herbert, 1899-
Named conversion consultant by National association. Paint Oil & Chem R 104:81 N 5 '42

WADDING
Cellulose wadding molds and pads for packaging pharmaceuticals. il Mod Packaging 15:60 Ja '42

WAGE agreements. See Trade agreements

WAGE assignment
Assignment of future wages; a North Carolina statute. Monthly Labor R 54:128 Ja '42

WAGE deductions
Chrysler employees "go to town" in bond buying drive. il Am Business 12:20-1, 44-5 Ap '42
Defense bond deduction formulas. Nat Underw (Life ed) 46:8 Jl 31 '42
Design and installation of payroll savings plans for the purchase of war bonds. R. Bruce. N A C A Bul 24:169-92 O 15 '42
Income tax collection at source. Trusts & Estates 74:543-4 Je '42
100% payroll plans for war bonds—are they wise? Gallup survey. Trusts & Estates 74:150 F '42
Payroll savings an opportunity for new savings accounts. E. B. Sturges, 2d. Bankers M 145:253-5 S '42
Payroll savings plan of Union dime savings bank of New York. il Banking 34:78 Je '42
Simplification of wage deductions in Germany. Monthly Labor R 53:1288-9 N '41
Taking the headaches out of payroll accounting. J. Garth. Am Business 11:32-3 D '41
Treasury promoting payroll savings plan. Comm & Fin Chr 156:97 Jl 9 '42
Treasury recommends wage deductions for collecting income taxes at the source. Comm & Fin Chr 155:2038 My 28 '42
Treasury's payroll plan. Bankers M 145:66 Jl '42
Urges to prepare now for victory taxes. H. C. Gretz. Comm & Fin Chr 156:1549 O 29 '42
War bond payroll plans urged for small firms. J. Twohy. Comm & Fin Chr 156:729 Ag 27 '42
War bonds out of current income. Banking 34:34-5 Ap '42
When employees buy defense bonds with salary deductions; International Harvester finds mechanized accounting. H. E. Fleming. il Am Business 11:34-6 D '41

WAGE differentials
Differential upset; NWLB ruling in Alcoa case. Business Week p62 F 21 '42
Wage differentials and mobility in Great Britain; average weekly earnings of men and women in sixteen industrial groups, Jan. 1942. Economist 143:56 Jl 11 '42

WAGE fixing
Hourly earnings in private shipyards, 1942; wage stabilization. W. C. Quant. Monthly Labor R 55:810-29 O '42
Hourly earnings in shipbuilding on the Pacific coast, 1942. W. C. Quant. Monthly Labor R 55:298-305 Ag '42
Inflation inevitable if wages are increased, Little Steel declares; protests to War labor board against panel's able-to-pay report. il Steel 111:46-50, 126 Jl 6 '42
Little Steel wage increase characterized as major defeat to price control program. Comm & Fin Chr 156:541 Ag 13 '42
Living costs and NWLB's wage rule. Business Week p84 Ag 15 '42
New shipbuilding stabilization agreement. Monthly Labor R 55:85-6 Jl '42
OPA on wages; a definition of policy that curbs labor. Business Week p78-9 Jl 18 '42
Pay stabilization? conference expected to usher in regional anti-inflation pacts. Business Week p72 Je 27 '42
Principles of the wage award. Nat City Bank p85-7 Ag '42
Salary and wage administration. S. L. H. Burk. N A C A Bul 23:1347-54 Je 15 '42
Stabilization of wages in building industry. Monthly Labor R 55:86-8 Jl '42
Wage increase of 5.5% authorized in Little Steel case; five guiding principles adopted. Comm & Fin Chr 156:372 Jl 30 '42
Wage precedent; Westinghouse takes its voluntarily negotiated 5½c pay increase to NWLB for review. Business Week p42-3 Ag 22 '42
Wage-setting dilemma. C. C. Balderston. Harvard Business R 20 no 4:402-5 [Jl] '42

WAGE fixing, Government
Bonus blight; Dominion salary law. Business Week p50 D 13 '41
Wage determinations under Public contracts act. Monthly Labor R 53:1294-6; 54:216-17; 55:367 N '41, Ja, Ag '42
Wage rates set for duration on government construction. Eng N 128:879-80 My 28 '42
See also
Minimum wage

WAGE payment by credit. See Payrolls

WAGE payment plans
Automatic cost-of-living wage adjustments; abstract. F. B. Brower. Management R 31:164-5 My '42
Bonus payments as wages under the Wage and hour law. Banking 34:41 Ja '42
Can banks compete with industry in employee compensation? il Bankers Mo 59:152-4+ Ap '42
Canadian wage and cost-of-living order of July 1942. Monthly Labor R 55:466-72 S '42
Control of wages and prices in Canada; cost-of-living bonus. Monthly Labor R 53:1393-4 D '41
Cost of living bonus. Trusts & Estates 74:349 Ap '42
Cost of living bonuses. W. Powers. Banking 34:71 Ja '42
Cost-of-living salary plans for municipal employees. J. M. Leonard and R. Mohaupt. 51p pa 50c Detroit bur. of governmental research, 5135 Cass av, Detroit '42

WAGE payment plans—*Continued*

Incentive for production; Ohio steel foundry co. roll turning and machine operations. J. M. Dugan and G. D. Griffiths. il Iron Age 150:56-60 Ag 20 '42

Incentive-wage plans and collective bargaining. F. Joiner and V. Kennedy. Monthly Labor R 55:1-14 Jl '42

Lincoln Electric wage incentive plan explained. Iron Age 149:102-3 Je 25 '42

Nelson's wage-incentive plan strikes at level-pay clauses in many union contracts. E. Blair. Barron's 22:4 Mr 23 '42

Post-war severance funds. Business Week p87 Mr 21 '42

Practical wage incentive plan; Sullivan machinery co. H. F. Blake and F. A. Westbrook. Iron Age 148:51-5 D 4 '41

Salary adjustments to meet the increasing living costs. Bankers M 143:536-7 D '41

Separation wage fund; Westinghouse electric and manufacturing co. Trusts & Estates 74:121 F '42

Supplemental compensation plans. Bankers M 144:76 Ja '42

Supplemental pay plans by N.Y. Reserve bank and other institutions. Comm & Fin Chr 154:1230 N 27 '41

Union participation: key to greater productivity. C. S. Golden and H. J. Ruttenberg. Advanced Management 7:55-60 Ap-Je '42

Wage incentive methods, their selection, installation and operation. C. W. Lytle. rev ed 462p $6 Ronald press '42

Wage incentives in collective bargaining. Management R 31:252-3 Jl '42

Wage increase in war bonds. Trusts & Estates 74:544 Je '42

Wage-setting dilemma. C. C. Balderston. Harvard Business R 20 no 4:402-5 [Jl] '42; Excerpts. Trusts & Estates 75:21 Jl '42

Weirton liberalizes vacation plan; pays former employes now in service. Steel 110:58 Je 1 '42

When wage incentives fail. C. A. Drake. Advanced Management 7:42-4 Ja-Mr '42

See also

Bonus system
Military service—Labor problems
Overtime
Payrolls
Profit sharing
Salesmen—Salaries and commissions
Sick leave
Vacations
Wage deductions

Guaranty of earnings

Economic effects of steady employment and earnings; a case study of the annual wage system of Geo. A. Hormel & co. J. Chernick. 75p bibliog(p75) pa $1.25 Univ. of Minnesota press, Minneapolis '42

Guaranteed wage for cotton weavers in Great Britain. Monthly Labor R 53:1579-80 D '41

WAGE tax. See Taxation—Philadelphia

WAGES

Banks must lift wages to meet living costs. Bankers M 145:157-8 Ag '42

Better wage indices for metalworking plants. C. C. Balderston. Mech Eng 64:291-3; Discussion. 293-4+ Ap '42

Collective wage determination; problems and principles in bargaining, arbitration, and legislation. Z. C. Dickinson. 640p $5 Ronald press '41

Give and take in bargaining on wages. J. R. Steelman. Advanced Management 7:38-41 Ja-Mr '42

War-time wage policy and private enterprise. Trusts & Estates 73:585-6 D '41

See also

Bonus system
Cost of living
Engineers—Salaries
Executives—Salaries
Labor and laboring classes
Minimum wage
Overtime
Payrolls
Pensions, Industrial
Police—Salaries
Prices
Profit sharing
Railroads—Wages
Salaries
Salesmen—Salaries and commissions
Wage payment plans

Dismissal wage

Dismissal compensation and the war economy. E. D. Hawkins. 81p pa 50c Committee on social security, Social science research council, 726 Jackson pl, NW, Washington, D.C. '42

Economic aspects

Criticizes competitive bidding up of wages & salaries as forcing inflation. M. S. Eccles. Comm & Fin Chr 155:2121+ Je 4 '42

French predecessors of Malthus; a study in eighteenth-century wage and population theory. J. J. Spengler. 398p $4.50 Duke univ. press, Durham, N.C. '42

Labor board warned against wage raises. Comm & Fin Chr 155:770 F 19 '42

Prices and wages. W. G. Keim. Am Statis Assn J 37:377-82 S '42

Real cause of wage boosts. H. P. Gillette. Roads & Sts 84:47 D '41

Wage inflation? War labor board weighs its Little Steel decision. Business Week p16-17 Jl 11 '42

Wages and prices. R. E. Summers, comp. Ref Shelf v 15, no 6:1-219 bibliog(p207-19) '42 ($1.25)

Law

Anti-inflation bill gives President broad powers over prices, wages, salaries. Comm & Fin Chr 156:1267 O 8 '42

Base-pay mixup, industries run into Walsh-Healey on U.S. jobs. Business Week p72+ My 9 '42

Bonus payments as wages under the Wage and hour law. Banking 34:41 Ja '42

Canadian wartime salaries order. Monthly Labor R 54:52-3 Ja '42

Control of wages and prices in Canada. Monthly Labor R 53:1392-6 D '41

Must pay minimum wage; Premier sample company. Paper Tr J 113:29 D 11 '41

N.Y. wage law upheld. Comm & Fin Chr 155:1712 Ap 30 '42

Right of employee to additional payments under wage-hour law; Minnesota Supreme court. Monthly Labor R 53:1460 D '41

Salary deductions for auto premiums menaced in N.Y. Nat Underw 46:18 Ja 22 '42

Some important wage-hour decisions contrary to administrative rulings. S. I. Potter. J Account 73:260-1 Mr '42

Tips collected by red caps included in minimum wages. Ry Age 112:503 Mr 7 '42

Utah wage-payment law constitutional. Monthly Labor R 53:1221 N '41

Wage and hour law coverage extended; employees engaged in the operation and maintenance of a loft building in which large quantities of goods are produced for interstate commerce. Monthly Labor R 55:102-3 Jl '42

Wage control law's effect on insurance. Nat Underw 46:1+ O 15 '42; Nat Underw (Life ed) 46:1+ O 23 '42

Wages increased by law in Cuba. For Comm W 5:15-16 D 6 '41

See also

Minimum wage
Overtime

Regulation

Air plant wages. Business Week p90+ O 24 '42

AFL head maps plan to control inflation. W. Green. Comm & Fin Chr 156:373 Jl 30 '42

Byrnes acts to stabilize commercial rentals; asks Treasury's aid in regulating salaries. Comm & Fin Chr 156:1444 O 22 '42

Canadian wage and cost-of-living order of July 1942. Monthly Labor R 55:466-72 S '42

First rulings on wage freeze. Business Week p82 O 31 '42

Flexible freeze; future of Little Steel formula in doubt. Business Week p88+ N 7 '42

For stable wages. Business Week p14 My 9 '42

NWLB orders stabilization of wages in nine New England textile plants. Comm & Fin Chr 156:375 Jl 30 '42

NWLB pegs pay; Little Steel decision sets vital new policy. Business Week p80+ Jl 25 '42

WAGES—Regulation—*Continued*

NWLB reserves right to order wage cuts. Comm & Fin Chr 156:1443 O 22 '42

Plug wage hole in Ford decision. Business Week p96+ O 24 '42

President continues to quarterback basic domestic issues. E. Blair. Barron's 22:4-5 Jl 13 '42

President orders wage stabilization. Ry Age 113:572-3 O 10 '42

President's anti-inflation program not being put into force on important sectors. E. Blair. Barron's 22:4-5 My 11 '42

Price-control for labor, farmer asked in Congress. Oil Paint & Drug Rep 142:3+ S 21 '42

Price-wage control bullish for stocks. B. Ravits. Barron's 22:3 O 19 '42

Prohibition of double pay for Sunday and holiday work. Monthly Labor R 55:717-19 O '42

Ready on wages; NWLB prepares to put all its regional offices in shape to handle pay increase requests. Business Week p16 N 7 '42

Should wages be frozen? W. Green. Ann Am Acad 224:58-61 N '42

Text of executive order providing for stabilizing wages, salaries, farm prices, etc. F. D. Roosevelt. Comm & Fin Chr 156: 1265+ O 8 '42

Toward a national wage policy. Business Week p15-16 Mr 28 '42

Union pay freeze; agreement of A.F.L. building trades. Business Week p29-30+ Jl 25 '42

Wage adjustments in this war. Z. C. Dickinson. Ann Am Acad 224:62-8 N '42

Wage increase of 5.5% authorized in Little Steel case; five guiding principles adopted. Comm & Fin Chr 156:372 Jl 30 '42

Wage issue boils. Business Week p20 Ag 29 '42

Wage policy, piecemeal. Business Week p15-16 My 23 '42

Your new taxes; revolutionary new salary measure. L. J. Freeman. Barron's 22:3-4 N 9 '42; Correction. 22:7 N 16 '42

Statistics

Distribution of factory workers by hourly and weekly earnings. R. J. Myers and L. M. Solomon. Monthly Labor R 54:1278-82 Je '42

Earnings and employment in the business cycle. J. H. Furth. R Econ Statis 24:136-42 Ag '42

Farm and wage incomes soar together. Barron's 22:1 Mr 30 '42

Hourly earnings in shipbuilding on the Pacific coast, 1942. W. C. Quant. Monthly Labor R 55:298-305 Ag '42

Hourly entrance rates paid to common laborers, 1941. W. C. Quant. Monthly Labor R 54:149-73 Ja '42

Statistics of the general level of wages; hourly rates or earnings; daily, weekly or monthly earnings; yearly 1929-1940; quarterly Sept. 1940-Sept. 1941. Int Labour R 45:220-32 F '42 [cont quarterly]

Union wages and hours in the baking industry, June 1, 1941. K. B. Mohn. Monthly Labor R 54:174-83 Ja '42

Union wages and hours in the building trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1242-73 N '41

Union wages and hours in the printing trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1538-67 D '41; Correction. 54: 759-60 Mr '42; Reprint, with additional data. U S Bur Labor Statistics Bul 708:1-81; pa 15c Supt. of doc. '42

Wage and hour statistics. Published in Monthly labor review

Wage-rate changes in United States industries. Published in Monthly labor review

Wage-rate increases in manufacturing industries by quarters, 1940-third quarter, 1941. Survey of Cur Business 21:6-7 D '41

Wages and normal hours of work of adult males in certain occupations in various countries in October 1940. Int Labour R 44: 470-88 O '41

Wages and normal hours of work of adult males in certain occupations in various countries in October 1941. Int Labour R 46: 638-53 N '42

Workers' hours up 20% in industry in year; wages rise. Comm & Fin Chr 155:1720 Ap 30 '42

See also
Labor cost
Payrolls
Wages—United States

Argentina

Minimum wages in agriculture in Santa Fe province, Argentina, 1941-42. Monthly Labor R 54:772-3 Mr '42

Union wages on government-contract printing in Argentina. Monthly Labor R 55:361 Ag '42

Australia

Second refusal of flat increase in wages in Australia. Monthly Labor R 53:1578-9 D '41

Brazil

Brazilian wage increases not part of basic wage. R. E. Cahn. Monthly Labor R 54:219 Ja '42

Buffalo, New York

Earnings in Michigan and Buffalo (N.Y.) airframe plants, May 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:289-97 Ag '42

California

Wage rates in the California airframe industry, 1941. L. M. Solomon and N. A. Tolles. Monthly Labor R 54:559-84 Mr '42

Canada

Annual earnings in Canadian manufacturing industries, 1939. Monthly Labor R 53:1574-5 D '41

Average weekly earnings in Canadian industries, September 1941. Monthly Labor R 54:769-70 Mr '42

Bonus blight; Dominion salary law. Business Week p50 D 13 '41

Canada's wartime wages policy. R. L. Dobbin. Water Works & Sewerage 89:352-3 Ag '42

Canadian wage and cost-of-living order of July 1942. Monthly Labor R 55:466-72 S '42

Canadian wartime salaries order. Monthly Labor R 54:52-3 Ja '42

Control of wages and prices in Canada. Monthly Labor R 53:1392-6 D '41

Extension of Canada's fair-wages policy. Monthly Labor R 54:54 Ja '42

Extension of wartime wage control in Canada to small employers. Monthly Labor R 54:391-2 F '42

Salary and wage control in Canada. E. E. Duckworth. East Underw 43:38-9 pt 2 O 9 '42

Cuba

General wage increases in Cuba, November 1941. Monthly Labor R 54:769 Mr '42

Pay increases to Cuban government employees, 1942. C. H. Ducoté. Monthly Labor R 54:1019-20 Ap '42

Wages increased by law. For Comm W 5:15-16 D 6 '41

Denmark

Decrease of real wages in Denmark in 1940 and 1941. Monthly Labor R 54:212 Ja '42

Dominican Republic

Paid vacations for salaried employees in Dominican Republic. Monthly Labor R 54: 462 F '42

Germany

German wages. Economist 141:754 D 20 '41

Hourly wage rates in Germany, end of 1941. Monthly Labor R 55:361-2 Ag '42

Monthly wages of German deep-sea fishermen. Monthly Labor R 54:770 Mr '42

Simplification of wage deductions in Germany. Monthly Labor R 53:1288-9 N '41

Wages in logging industry in Germany, 1941. Monthly Labor R 54:1020 Ap '42

WAGES—Germany—*Continued*

Wages; slight increase during 1941. Economist 143:306 S 5 '42

Wartime developments in German wage policy. R. Livchen. bibliog Int Labour R 46: 136-65 Ag '42

Great Britain

Average weekly earnings of men and women in sixteen industrial groups, January, 1942. Economist 143:118 Jl 25 '42

Cotton trade wages. Economist 142:300 F 28 '42

Earnings in industry; change since Oct. 1938. Economist 141:685, 697-8 D 6 '41

Earnings in metal engineering and shipbuilding industries. Economist 141:762 D 20 '41

Earnings in metal trades. Economist 143:185 Ag 8 '42

Earnings of British workers in January 1942. Monthly Labor R 55:587-90 S '42

£5 a week; average earnings, Oct. 1938, July 1940 and 1941, and Jan. 1942. Economist 143:56 Jl 11 '42

Guaranteed wage for cotton weavers in Great Britain. Monthly Labor R 53:1579-80 D '41

Hairdressing wages. Economist 142:620 My 2 '42

Industrial wages. Elec R (Lond) 131:57 Jl 10 '42

Miners' wages; engineers stake a claim. Economist 142:902 Je 27 '42

Minimum wage for agricultural workers in England and Wales. Monthly Labor R 54: 501-2 F '42

Ostriches among the engineers; increasing wages to counteract wartime taxation defeats purpose of the tax. Economist 141:746-7 D 20 '41

Remuneration of British labor since beginning of war. P. S. Florence. Monthly Labor R 54:881-94 Ap '42

Retail wage agreement. Economist 142:159-60 Ja 31 '42

Retail wage agreement; bookselling, newsagency, stationery, tobacco and confectionery trades. Economist 142:550 Ap 18 '42

Two-thirds of a man; women's pay. Economist 143:298 S 5 '42

Wages and the cost of living index. Economist 142:266 F 21 '42

Wages policy. Economist 142:884-6 Je 27 '42

Weekly earnings in Great Britain and Northern Ireland in 1941. Monthly Labor R 54: 499-501 F '42

Wholesale grocery wage agreement. Economist 143:119 Jl 25 '42

Hungary

Hourly wages in Hungary, April 1941. Monthly Labor R 53:1575-6 D '41

Illinois

Earnings of white-collar workers in Illinois and New York factories, October 1941. Monthly Labor R 54:765-8 Mr '42

Ireland

Wage stabilisation in Eire. Economist 141: 496-7 O 25 '41

Weekly earnings in Great Britain and Northern Ireland in 1941. Monthly Labor R 54: 499-501 F '42

Mexico

Printing-trades wages in Mexico, 1942. Monthly Labor R 55:841 O '42

Michigan

Earnings in Michigan and Buffalo (N.Y.) airframe plants, May 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:289-97 Ag '42

New York (city)

Wage rates per hour, New York city; building trades, 1874-April 1942. Eng N 128:710 Ap 23 '42

New York (state)

Earnings of white-collar workers in Illinois and New York factories, October 1941. Monthly Labor R 54:765-8 Mr '42

Effect of minimum wage on annual earnings in New York laundries. Monthly Labor R 54:1404-7 Je '42

New Zealand

Wages and prices in New Zealand. Economist 142:797 Je 6 '42

Wartime wage increases in New Zealand. Monthly Labor R 55:590-3 S '42

Pacific coast

Earnings and hours in Pacific Coast fish canneries. A. T. Sutherland. U S Women's Bur Bul 186:1-30; pa 10c Supt. of doc. '41

Hourly earnings in shipbuilding on the Pacific coast, 1942. W. C. Quant. Monthly Labor R 55:298-305 Ag '42

Sweden

Wage regulation and the incidence of the higher cost of living in Sweden. Int Labour R 46:79-83 Jl '42

Switzerland

Wages in Switzerland, 1941. Monthly Labor R 55:363-4 Ag '42

Wages in Switzerland, April 1942. Monthly Labor R 55:841-2 O '42

United States

Annual wages and salaries in the United States, 1939. Monthly Labor R 55:149-51 Jl '42

Are war workers getting most of the wage increases? J. F. Kurie. Adv & Sell 35:23 N '42

Average hourly earnings in all manufacturing and selected industries; increase, Dec. 1941 over June 1940; chart. Survey of Cur Business 22:2 Mr '42

Building trades wage rates prevailing March 1, 1942; tabulation. Eng N 128:712 Ap 23 '42

Comparative earnings and hours of women and men, October 1940. Monthly Labor R 53:1177-9 N '41

Comparative statistics on clerical salaries. Management R 31:181-2 My '42

Construction wage rates and trends, 1910-1941. Eng N 128:708 Ap 23 '42

Disparity between farm and factory. Nat City Bank p 112-13 O '42

Distribution of factory workers by hourly and weekly earnings. R. J. Myers and L. M. Solomon. Monthly Labor R 54:1278-82 Je '42

Earnings and hours in book and job printing, January 1942; hourly earnings. E. B. Harris and W. C. Linn. Monthly Labor R 55:785-801 O '42

Earnings and hours in manufacture of cigarettes, chewing and smoking tobacco, and snuff, December 1940. T. P. Henson. Monthly Labor R 54:184-209 Ja '42

Earnings and hours in mining and milling of nonferrous metals, August 1941. H. Ober, J. Loft and A. C. Lakenan. Monthly Labor R 54:1374-95 Je '42

Earnings and hours in rice mills, 1941. B. L. Smith. Monthly Labor R 53:1274-87 N '41

Earnings in manufacture of miscellaneous industrial machinery, 1942. H. R. Hosea, O. C. Clark and G. E. Votava. Monthly Labor R 55:306-13 Ag '42

Earnings in manufacture of oil-field machinery, February-March 1942. O. C. Clark and G. E. Votava. Monthly Labor R 55:578-84 S '42

Earnings in midcontinent airframe plants, June 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:772-84 O '42

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Earnings in primary fabrication of nonferrous metals, 1941. H. Ober and J. Loft. Monthly Labor R 55:314-34 Ag '42

Earnings in the agricultural-machinery industry, 1942. H. R. Hosea and others. Monthly Labor R 54:1177-86 My '42

Earnings in the case-goods furniture industry. O. C. Clark. Monthly Labor R 55:124-8 Jl '42

Earnings in the construction-machinery industry. H. R. Hosea and others. Monthly Labor R 55:117-23 Jl '42

Earnings in the eastern airframe industry, April 1942. L. M. Solomon and N. A. Tolles. Monthly Labor R 55:15-24 Jl '42

WAGES—United States—*Continued*

Earnings in the grain-mill products industries, 1941. F. Jones and B. L. Smith. Monthly Labor R 54:1006-16 Ap '42

Earnings in the manufacture of machine tools, 1942. H. R. Hosea. Monthly Labor R 55:802-9 O '42

Earnings in the men's cotton-garment industries, 1939 and 1941. L. M. David and D. S. Stone. Monthly Labor R 55:335-51 Ag '42

Earnings in the mining machinery and equipment industry, 1942. H. R. Hosea, O. C. Clark and G. E. Votava. Monthly Labor R 54:1367-73 Je '42

Earnings in the smelting and refining of nonferrous metals, August 1941. H. Ober and J. Loft. Monthly Labor R 55:129-47 Jl '42

Earnings in the textile-machinery industry, 1942. H. R. Hosea and others. Monthly Labor R 55:107-16 Jl '42

Factory wage rate doubling World war I. Comm & Fin Chr 155:1451 Ap 9 '42

Fatter pay checks. Business Week p50 Ja 3 '42

Higher wages feature 1941 national income. Comm & Fin Chr 156:380 Jl 30 '42

Hourly earnings in private shipyards, 1942; wage stabilization. W. C. Quant. Monthly Labor R 55:810-29 O '42

Hourly earnings in the furniture industry; February 1941. V. S. Baril and A. C. Lakeman. Monthly Labor R 53:741-61 S '41; Correction. 54:211 Ja '42

Hourly entrance rates paid to common laborers, 1941. W. C. Quant. Monthly Labor R 54:149-73 Ja '42

Hours and earnings in manufacture of cotton goods, Sept. 1940 and April 1941. E. B. Morris and E. M. Bunn. Monthly Labor R 53:1490-1513 D '41

Hours and earnings in the cigar industry, 1940. P. L. Jones, M. Gresham and J. Laciskey. Monthly Labor R 53:1514-37 D '41

Hours and earnings in the United States, 1932-40, with supplement for 1941. A. Olenin and T. F. Corcoran. diags U S Bur Labor Statistics Bul 697:1-207; pa 25c Supt. of doc. '42

Little Steel wage increase extended to Big Steel employees to be retroactive to Feb. 15. Comm & Fin Chr 156:899 S 10 '42

Minimum rates under Fair labor standards and Public contracts acts. Monthly Labor R 54:1189-90 My '42

NWLB grants 4c; Chrysler and G.M. wage directives. Business Week p86 O 10 '42

NWLB grants raise to N.Y. building employees. Comm & Fin Chr 156:638 Ag 20 '42

New wage demands; the inflationary spiral. Nat City Bank p27-9 Mr '42

Pay rates of TVA employees, 1942. Monthly Labor R 55:353-6 Ag '42

Pay-rise milepost; C.I.O.'s clothing workers win 10c-an-hour boost. Business Week p73 Mr 21 '42

Rise in farm wages, 1941. Monthly Labor R 53:1570-1 D '41

Salary trends for office work since 1940. E. Whitmore. Am Business 12:7-9+ S '42

Skilled and common wage rates, per hour. Published in Engineering news-record, first technical issue of each month

Union wages and hours in the baking industry, June 1, 1941. K. B. Mohn. Monthly Labor R 54:174-83 Ja '42

Union wages and hours in the building trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1242-73 N '41

Union wages and hours in the printing trades, June 1, 1941. K. B. Mohn. Monthly Labor R 53:1538-67 D '41; Correction. 54:759-60 Mr '42; Reprint, with additional data. U S Bur Labor Statistics Bul 708:1-81; pa 15c Supt. of doc. '42

Wage and salary increases for municipal employees, 1941-42. Monthly Labor R 54:1017-19 Ap '42

Wage-rate changes in American industries; manufacturing and nonmanufacturing establishments during month ending Oct. 15, 1941. Monthly Labor R 54:209-11 Ja '42 [cont monthly]

Wage rates in building trades. E. M. Craig. Sheet Metal Worker 33:60 Ja '42

Wage structure of the motor-vehicle industry. H. R. Hosea and G. E. Votava. Monthly Labor R 54:279-304, 737-59 F-Mr '42

Wages and cost of living in two world wars. W. Bowden. Monthly Labor R 53:1103-25 N '41

Wages and hours in the glove industry, 1941; factory, office, and home workers. E. B. Morris and E. M. Bunn. Monthly Labor R 54:711-36 Mr '42

Wages and hours of union motortruck drivers and helpers, June 1, 1941. K. B. Mohn. Monthly Labor R 54:487-95 F '42

Wages, hours, and working conditions of union street-railway employees, June 1, 1941. K. B. Mohn. Monthly Labor R 54:463-86 F '42

Wages in military-tank assembly shops, August 1942. H. M. Douty and W. H. Weidowke. Monthly Labor R 55:697-9 O '42

Wages of many workers gives bare subsistence. L. M. Walling. Comm & Fin Chr 156:1094 S 24 '42

WLB orders cotton wage increase. B. Stubblefield. Textile World 92:83-4 S '42

Weekly wage earnings, World war II; chart. Nat City Bank p 112 O '42

What's happening to white-collar pay? abstract. Management R 30:399-401 N '41

See also

Salaries

Wages—Regulation

Uruguay

Wages and cost of living in Uruguay. Monthly Labor R 55:365-6 Ag '42

Virgin Islands

Minimum sugarcane wage rates in Virgin Islands. Monthly Labor R 55:595 S '42

West Indies

Wages in Curaçao, Netherlands West Indies. J. F. Huddleston. Monthly Labor R 54:771 Mr '42

WAGNER, Robert Ferdinand, 1877-

President praises Wagner and Brandeis. Comm & Fin Chr 156:26 Jl 2 '42

WAGNER labor act. See Labor laws and legislation—United States

WAGON jobbers. See Jobbers, Wagon

WAITE, Henry Matson, 1869-

Sketch. por Civil Eng 12:55-6 Ja '42

WALDEN inversion

Sugar acetates, acetylglycosyl halides, and orthoacetates in relation to the Walden inversion. H. L. Frush and H. S. Isbell. bibliog pl J Research Nat Bur Stand 27:413-28 N '41

WALES

See also

Tin mines and mining—Wales

WALKER, Hiram,-Gooderham and Worts, ltd.

Hiram Walker, Gooderham & Worts, ltd. and Hiram Walker & sons, inc.; $15,000,000 debentures offered. Comm & Fin Chr 154:1060 N 15 '41

New serial debentures for short to medium term investment. Comm & Fin Chr 154:1211 N 27 '41

Thumbnail stock appraisal. Mag of Wall St 69:147 N 15 '41

WALL board

Absorptive form lining. E. N. Vidal and R. F. Blanks. bibliog il diag Am Concrete Inst J 13:253-68 Ja '42; Discussion. 13:sup 268^1-268^4 Je '42

Houses for defense; private enterprise prefabricates 600 for bomber builder Glenn Martin with walls of single new material. il diag plans Arch Forum 75:321-6+ N '41

New Zealand forest products Pinex insulating wallboard. For Comm W 6:30 Ja 24 '42

Upson develops Dubl-thik fibre-tile. il Ry Age 112:554 Mr 14 '42

WALL board—*Continued*

Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

Wall panels in colors, to be cemented in place. il Sci Am 167:30-1 Jl '42

Manufacture

Masonite corp. improves mill at Laurel to increase output 20 per cent. il Paper Tr J 113:53-4 N 27 '41

Strong plaster for paperless wallboard; new process of gypsum manufacture involves cooking raw gypsum in Epsom salts solution. W. A. Cunningham. flow sheet il Rock Prod 45:50-3 Ap '42

WALL fabrics

Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

WALL Street

Wall Street; the financial backbone of the nation. Comm & Fin Chr 155:100 Ja 8 '42

See also

New York stock exchange

WALLACE, Fred S.

Portrait. Business Week p24 Ja 31 '42

WALLACE, Henry Agard, 1888-

Vice president. por Fortune 26:134-7+ N '42

WALLBOARD. See Wall board

WALLING, Lewis Metcalfe, 1908-

Portrait. Business Week p74 Mr 7 '42

WALLPAPER

See also

Paper hanging

WALLS

Analysis of periodic loads in composite walls. B. F. Raber and F. W. Hutchinson. diags Heating-Piping 14:367-8 Je '42

Asphalt cutoff wall at Claytor dam; sand-asphalt mix used to stop underflow. H. S. Slocum. il diag Eng N 128:490-2 Mr 26 '42; Discussion. V. A. Endersby. 128:900 Je 4 '42

Conserving metals with stone and glass veneers; building facings, with time-saver standards. F. G. Lopez, jr. diags Arch Rec 90:92-6 D '41

Construction of smaller buildings; piers and bearing walls; with time-saver standards. W. H. Hayes. Arch Rec 91:78 My '42

Doweled masonry. F. Heath, jr. plans Am Cer Soc Bul 21:165-6 Ag 15 '42

FPHA jig tables for field assembly. il diags plan Arch Forum 76:200-1 Ap '42

Heat flow through sunlit walls of one material; reference data. Heat & Ven 39:58a Jl '42

Heat flow through sunlit wood frame walls; reference data. Heat & Ven 39:58b Jl '42

Heat gain through walls and roofs as affected by solar radiation. F. C. Houghten and others. bibliog Heating-Piping 14:306-12; Discussion. 312-13 My '42

How can I figure the heat transfer coefficients for these walls? diags Heating-Piping 14:427 Jl '42

How to estimate the amount of water vapor transmitted through building walls. Heat & Ven 39:43-7 S '42

Metal sandbags make splinterproof walls. il Steel 110:60 Mr 30 '42

Method of compiling tables for intermittent heating; absorbance of walls. E. G. Smith. Heating-Piping 14:386-90 Je '42

Periodic heat flow in building walls determined by electrical analogy method. V. Paschkis. diags Heating-Piping 14:133-8 F '42; Discussion. 14:201-3 Mr '42

Remodeling construction; exterior walls; time-saver standards. C. T. Sigman. diags Arch Rec 91:56-7 F '42

Suitability of stabilized soil for building construction. E. L. Hansen. il diags Ill U Eng Exp Sta Bul 333:1-37 bibliog(p35-7) '41 (pa 45c)

See also

Building
Dampness in buildings
Dams
Foundations
Masonry
Plaster and plastering
Retaining walls

WALLS, Brick

Brickwork as seen by the engineer; with cost data. E. E. Seelye. diags Eng N 127:724-9 N 20 '41

First Farren-wall factory building is erected in the Chicago area. il diags Brick & Clay Rec 100:61 Ja '42

Possibilities of masonry engineering; suggestions for 10 possible improvements in wall construction. F. Heath, jr. Am Cer Soc Bul 21:142-5 Jl 15 '42; Same. Brick & Clay Rec 101:26, 28+ O '42

Water permeability of walls built of masonry units. C. C. Fishburn. Brick & Clay Rec 101:33 S '42

WALLS, Concrete

Applying portland cement paint to concrete masonry walls. P. M. Woodworth. il Concrete 50:10-11+ Ap '42

Good practice in concrete masonry wall construction. K. C. Tippy. il diags Am Concrete Inst J 13:317-28 F '42; Discussion. 13:sup 328^1-328^{15} N '42

How to build sabotage and bomb protection. il Am Bld 64:61+ Je '42

Low transmission of heat and cold in walls of concrete masonry. Concrete 50:14-15+ N '42

New types of masonry; demonstrations and discussions by National concrete masonry assn. il Rock Prod 45:80-1+ F '42

Prevention of cracking. E. W. Dienhart. Concrete 50:24-7 My '42

Prevention of cracking; proper curing of block and construction of walls essential. il diags Rock Prod 45:79-80 Mr '42

Protection of waterworks against sabotage and bomb damage; use of concrete-masonry units. il diags Water & Sewage 80:21-2 Ag '42

Relative value of masonry wall types in ability to resist rain. diags Concrete 50:18+ S '42

Resistance to rain offered by masonry walls; abstract. P. M. Woodworth. Rock Prod 45:70 Ap '42

See also

Concrete piling
Dams, Concrete

Testing

Concrete masonry vs. sabotage; firearms test. il Concrete 50:14+ Ap '42

WALLS, Interior

Wall materials and lighting; reflection factors and trichromatic coefficients of washable fabrics, wood veneers, and wall boards, etc. P. Moon. bibliog Opt Soc Am J 31:723-9 D '41

See also

Mural painting and decoration
Paneling
Paper hanging
Partitions
Plaster and plastering
Wall board

WALNUT shell flour

Walnut shell flour. E. F. Lougee. il Mod Plastics 19:35-7+ F '42

WALNUTS

War brings opportunity and handicaps to walnut growers. Sales Management 50:50 Je 15 '42

WALSH, James J. 1865-1942

Sketch. A. Malloch. Science 95:522 My 22 '42

WALWORTH company

Annual report. Comm & Fin Chr 155:1224 Mr 23 '42

1st mortgage 4s, 1955. Comm & Fin Chr 155:1234 Mr 26 '42

WAMPLER, El Rey Cloud, 1893-

Portrait. Business Week p28 Jl 4 '42

WANDKE, Alfred, 1887-1941
Memorial. M. N. Short. bibliog por(pl) Geol Soc Proc 1941:211-14 Mr '42

WANT ads. See Advertisements, Classified—Want ads

WAR
Axis grand strategy; blueprints for the total war. L. Farago, ed. 614p bibliog(p581-9) $3.75 Farrar '42
Capitalistic warmongers, a modern superstition. W. Sulzbach. 34p pa 25c Univ. of Chicago press '42
Democracy and military power. S. B. McKinley. new & enl ed 350p bibliog(p345-50) $3 Vanguard press, New York '41
Drives toward war. E. C. Tolman. 118p $1.25 Appleton-Century '42
Grand strategy. H. A. Sargeaunt and G. West. 246p $2 Crowell '41
Iron and war (cont). F. T. Sisco. Min & Met 23:35, 305, 515, 604-5 Ja, My, O, D '42
It never shall happen again. A. J. Philip. 96p 5s Philip, Gravesend, Eng. '41
New nations for old. K. Boulding. 40p pa 25c Pendle Hill, Wallingford, Pa.
Study of war. Q. Wright. 2v 1552p $15 Univ. of Chicago press '42
Total war. D. Wheatley. 82p pa 1s Hutchinson & co, New York '41
War and defense subject headings. 17p pa 10c Ruth Miller, sec-treas, Financial group, Special lib. assn, Central Hanover bank and trust co, New York '41
War and national policy; a syllabus. G. Kirk and R. P. Stebbins, eds. 131p bibliog(p107-31) $1 Farrar '42
War is the enemy. A. J. Muste. 36p pa 15c Pendle Hill, Wallingford, Pa.
World we approach. N. Doman. Ann Am Acad 222:90-102 Jl '42

See also
Accounting and war
Advertising and war
Aeronautics, Military
Air raids
Air raids and building
Armaments
Chemical warfare
Guerrillas
Industrial mobilization
Libraries and war
Military art and science
Military engineering
Munitions
Neutrality
Peace
Railroads in war
Rapid transit in war
Transportation in war

also names of wars, e.g. Chinese-Japanese war; European war, 1914-1918; World war, 1939-
also subdivision War problems under special subjects, e.g.
Electric utilities—War problems
Public utilities—War problems

Economic aspects

Costs and prices. Business Week p91 N 15 '41
Credit risks in wartime. J. B. Woosley. Trusts & Estates 73:604-5 D '41
Economic problems of war. R. T. Bye and I. B. Kravis. 59p pa 50c Crofts '42
Economic problems of war. G. A. Steiner, ed. 692p bibliog(p671-5) $4.50; college ed $3.50 Wiley '42
Economic problems of war and its aftermath. C. W. Wright, ed. 197p $2 Univ. of Chicago press '42
Economic warfare, 1939-1940. P. Einzig. 150p $1.75 Macmillan '41
Economics of total war. H. W. Spiegel. 410p bibliog(p359-89) $3 Appleton-Century '42
Gone with the war; how our tax legislation forces post-war unemployment, or stateism. B. B. Smith. Trusts & Estates 73:481-4 N '41
How much of our peace-time economy do we have to scrap? G. Hirschfeld. il Spectator (Property ed) 7:10-14+ Ja 22 '42; Same abr. Spectator (Life ed) 148:6-7, 22 Ja 1 '42
Role of management in postwar transition. P. Shoup. Ann Am Acad 222:184-8 Jl '42
Total economic warfare. W. S. Culbertson. Ann Am Acad 222:8-12 Jl '42
War economics. E. Stein and J. Backman, eds. 501p $3 Farrar '42
War expansion and price inflation. S. H. Nerlove. bibliog J Business 15:95-130 Ap '42

See also
European war, 1914-1918—Economic aspects
War finance
World war, 1939—Economic aspects

Bibliography

Training in war economics; survey of university courses and reference materials. Trusts & Estates 74:29-30 Ja '42

Study and teaching

Report on war courses offered by collegiate schools of business and departments of economics, April 1942. 58p bibliog(p49-56) U.S. Bur. of foreign and domestic commerce, Washington '42

Labor problems

Labor conscription. W. V. Owen. Personnel J 20:346-9 Ap '42
Labour redistribution for war industry. P. Waelbroeck. Int Labour R 45:367-94 Ap '42

See also
World war, 1939—Labor problems

Psychological effects

Psychological effects of war on citizen and soldier. R. D. Gillespie. 250p bibliog(p245-50) $2.75 Norton '42

Social aspects

Man and society in calamity. P. A. Sorokin. 352p bibliog(p321-47) $3 Dutton '42
Swords and plowshares; some of our great implements of peace originally were weapons of war. J. Early. il Barron's 22:3 Ja 5; 40 Ja 12; 8 Ja 19; 9 Ja 26; 9-10 F 2; 7 F 9; 8 F 16; 9 F 23; 7 Mr 2; 7 Mr 16; 20 Mr 23 '42
War as a social institution; the historian's perspective. J. D. Clarkson and T. C. Cochran, eds. 333p $3.50 Columbia univ. press '41

WAR (international law)
To popularize for American lawyers the study of American international law; part II, The law for a state-of-war. J. H. Wigmore. 77p pa $1 Am. bar assn, 1140 N. Dearborn st, Chicago '42

WAR, Causes of
Organization of peace. F. C. Nájera. Ann Am Acad 222:60-73 Jl '42

WAR, Cost of
National income and armament expenditures of belligerents, 1937-1940; with estimates for 1941 and 1942. V. L. Horoth. Mag of Wall St 69:361 Ja 10 '42
Victory cannot be bought; organizing machines, materials, and manpower is crucial chart Fortune 25:60-1+ F '42

See also
World war 1939—Cost

WAR, Declaration of
Declarations of war. Fed Res Bul 28:11-12 Ja '42
Declarations of war between the United States and Bulgaria, Hungary and Rumania. Fed Res Bul 28:634 Jl '42
United States declares a state of war exists between it and Germany and Italy. Comm & Fin Chr 154:1681 D 27 '41

WAR, Maritime (international law)
See also
Maritime law

WAR, Psychology of
Nerve gas on tap. F. Brescia. J Chem Educ 19:402+ S '42

WAR administration
Civilians will have only themselves to blame if the military takes over. Fortune 26:14+ O '42
Labor's status in the national effort. G. Soule. Ann Am Acad 224:124-7 N '42
Lend-lease to date. diags Fortune 26:108-12+ O '42

WAR administration—*Continued*

Lincoln's secretary of war. Edwin M. Stanton understood the first rule of war leadership: get tough. Fortune 26:114-15 O '42

New spirit noticeable in Washington. E. Blair. Barron's 22:4 O 19 '42

Report to Mr Roosevelt in which he is asked to conduct his own purge while the initiative is still his. il Fortune 26:110-12+ S '42

Technological high command. il Fortune 25:62-7+ Ap '42; Same. Inst Radio Eng Proc 30:309-18 Jl '42

War organization and the public utilities; chart. Pub Util 30:371 S 10 '42

Who's winning? il Fortune 26:138-40+ N '42

See also

War finance

Bibliography

Civil-military relations; bibliographical notes on administrative problems of civilian mobilization. L Hartz and others. 77p pa $1 Public administration service, Chicago '40

WAR and advertising. See Advertising and war

WAR and animals

They also suffer. Science 96:232 S 4 '42

WAR and building

Building defense plants in England. il diag Manuf Rec 111:24-5+ Jl '42

Building standards and war in the future. G. E. Stecher. Weekly Underw 147:27 Jl 4 '42

Civilian defense buildings. il diags plans Arch Forum 76:60-7 Ja '42

How to build sabotage and bomb protection. il Am Bld 64:61+ Je '42

Industrial buildings; building types study; with time-saver standards. il diags plans Arch Rec 91:65-80 Ja '42

Precast concrete in wartime building; with time-saver standards. il diags Arch Rec 91:55-62 Mr '42

Totalitarian war remakes civilian London in its own image. il Arch Forum 75:sup10, 12 D '41

War-time factories in Britain; British building practice as affected by the blitz. C. H. Crane. il diag Arch Forum 76:96-7 F '42

See also

Air raids and building

WAR and children

Civil defense measures for the protection of children; report of observations in Great Britain, February 1941. M. M. Eliot. pls U S Children's Bur Pub 279:1-186 bibliog(p179-86); pa 30c Supt. of doc. '42

To parents in wartime. U S Children's Bur Pub 282:1-20; pa 5c Supt. of doc. '42

WAR and disease

Experience has shown that war and a rise in the disease rate go hand in hand. R. L. Barbour. Ins Field (Life ed) 71:6 Ja 16 '42

WAR and education

Higher education and the war. 184p pa $1 Am. council on education, 744 Jackson pl, NW, Washington, D.C. '42

University and the present crisis. A. J. Carlson. Science 95:369-72 Ap 10 '42

See also

World war, 1939—Education and the war

WAR and labor. See War—Labor problems; World war, 1939—Labor problems

WAR and science

Chemist in three wars. O. Eisenschiml. Science 96:347-52, 367-73 O 16-23 '42; Abstract. Chem & Met Eng 49:171-4 N '42

Scientist at peace and at war four hundred years ago; Epistola to his Della nuova scienza written at Venice, 1537. M. F. Ashley Montagu. Science 95:71 Ja 16 '42

See also

World war, 1939—Science and the war

WAR benefits bill. See World war, 1939—Compensation of war victims

WAR contracts. See Contracts, Government

WAR damage corporation

Agents file proposals on war damage. Weekly Underw 146:761+ Ap 4 '42; East Underw 43:20+ Ap 3 '42; Nat Underw 46:5 Ap 2 '42

Agents volunteer for federal war insurance. Weekly Underw 145:1392 D 20 '41

Answers WDC questions for Chicagoans. H. C. Conick. Nat Underw 46:3+ Jl 16 '42

Application forms for war damage being distributed. Nat Underw 46:3+ Je 25 '42

Await details of federal war risk scheme. Nat Underw 45:3-4+ D 25 '41

Bomb insurance; federal government takes over war risk underwriting. Business Week p51-2 D 20 '41

Casualty pool to write war damage on securities. Nat Underw 46:17 S 3 '42

Christensen placed in charge of War damage corporation; companies get fiduciary forms. Nat Underw 46:1+ Je 11 '42

Companies made first move to co-operate with government in war damage plan. R. L. Barbour. Ins Field (Fire ed) 71:8 Je 18 '42

Competition with W.D.C. barred in some states. Ins Field (Fire ed) 71:7-8+ Jl 16 '42

Enact measure to increase power of RFC and provide war damage insurance; text of act. Comm & Fin Chr 155:1546 Ap 16 '42

Glimpse of war damage setup; abstracts. H. Freeman. Nat Underw 46:3+ My 28 '42; Weekly Underw 146:1276 Je 6 '42

Government announces war cover rules. Weekly Underw 146:1385+ Je 20 '42

Government forms $100,000,000 war risk fund. Nat Underw 45:3+ D 18 '41

Government will handle all bomb damage insurance. East Underw 42:1+ D 19 '41

Harrington also orders war damage countersignatures. Nat Underw 46:2 Jl 23 '42

Insurance against war perils; government assistance provided. Barron's 22:7 Ja 5 '42; Abstract. Nat Underw 46:5+ Ja 8 '42

Insurance agents discuss war damage plans. Comm & Fin Chr 155:1634 Ap 23 '42

Insurance companies will participate in U.S. war risk plan; text of Wagner bill providing for financing of the War damage corporation. East Underw 43:1+ F 6 '42; Nat Underw 46:3+ F 5 '42

Issues memorandum no. 2 to the companies. East Underw 43:19+ Jl 10 '42

Jesse Jones calls company executives to Washington conference on War damage corporation proposals. Ins Field (Fire ed) 71:25-6 Ap 2 '42; Nat Underw 46:3+ Ap 2 '42

Jesse Jones hints O.K. to be given on war damage plan. Nat Underw 46:3+ My 7 '42

Loss adjusting plan arranged for WDC policies. Nat Underw 46:3-4 Ag 13 '42; Same cond. Management R 31:358-9 O '42

Many war damage queries must await ruling from Washington; memorandum no. 1. East Underw 43:14+ Jl 3 '42

Massachusetts reports on war damage cover. Weekly Underw 147:121 Jl 18 '42

Mutuals ask withdrawal of NAIA war damage plan. P. L. Baldwin. Weekly Underw 146:829 Ap 11 '42

New proposed war cover rate plan. Nat Underw 46:4 Ap 30 '42

Officers named for War damage corporation. Comm & Fin Chr 155:2213 Je 11 '42

Pink will not order agency signature on war damage policies; action in other states. East Underw 43:1+ Jl 31 '42

President signs bill increasing RFC power and providing for war damage insurance. Comm & Fin Chr 155:1342 Ap 2 '42

Question and answer forum. B. G. Werbel. Weekly Underw 147:214+ Ag 1 '42

RFC sets up war insurance corporation. Comm & Fin Chr 155:21 Ja 1 '42

Rules out tax for war risk premiums. F. Biddle. Nat Underw 46:1 Ja 15 '42

Sale of war cover continues at lively pace. Nat Underw 46:1+ Jl 16 '42

Seek to perfect details of war damage program. Nat Underw 46:3+ Ap 9; 6+ Ap 16 '42

WAR damage corporation—*Continued*

Seek to relieve WDC of flood of inquiries. Nat Underw 46:1+ Jl 9 '42

Tennessee cancels its war damage ruling. Nat Underw 46:3 N 5 '42

Text of insurance policy issued by War damage corporation. East Underw 43:29-30 Je 26 '42

U.S. war cover discussed at hearing of Senate subcommittee. Nat Underw 46:3+ Ja 29 '42

U.S. war damage would be set at $1,000,000; Wagner bill. Nat Underw 46:1 Ja 22 '42

War cover premiums exceed $106,000,000 Washington reports. East Underw 43:1+ S 11 '42; Nat Underw 46:1 S 10 '42

War coverage on machinery and boilers a problem. Nat Underw 46:15-16 Ag 20 '42

War damage bill views. M. J. Kennedy. East Underw 43:18+ F 6 '42

WDC accounting rules relayed to companies. East Underw 43:16+ Je 19 '42; Ins Field (Fire ed) 71:7-8+ Je 18 '42; Nat Underw 46:1+ Je 18 '42

WDC approves cover for securities and currency. Weekly Underw 147:441+ Ag 29 '42

WDC business still continues after month. Nat Underw 46:3+ Ag 6 '42

WDC fiduciary pact in companies' hands; Jones names personnel of officials. East Underw 43:21+ Je 12 '42

WDC interprets points commissioners raise. Nat Underw 46:1+ S 24 '42

War damage corporation policy. D. A. Ticktin. East Underw 43:25+ O 9; 22+ O 16; 18+ O 23; 18+ O 30; 30+ N 6; 18+ N 13; 22+ N 20; 16+ N 27 '42

War damage corporation to offer banks four types of insurance, all within one policy. Comm & Fin Chr 156:1550 O 29 '42

War damage cover plans approved. Nat Underw 46:1, 10-11, 37-8 Je 4 '42; East Underw 43:1+ Je 5 '42; Ins Field (Fire ed) 71:7-8+ Je 4 '42; Weekly Underw 146:1261+ Je 6 '42

War damage insurance. H. M. Bratter. Banking 35:128+ S '42

War damage insurance, amendment to regulations A. Spectator (Property ed) 8:23 Jl 23 '42

War damage insurance; New York revision committee report. Weekly Underw 146:995-6 My 2 '42

War damage insurance; opportunity for public service. W. E. Roesch. il Spectator (Property ed) 8:10-14+ Ag 20 '42; Abstract. Management R 31:321-2 S '42

War damage lines may aggregate 75 to 100 billion. Nat Underw 46:1+ Jl 23 '42

War damage memos 3-4. Weekly Underw 147:169+ Jl 25 '42; Same. Spectator (Property ed) 8:22 Jl 23 '42

War damage memos 5-6. Weekly Underw 147:213+ Ag 1 '42; Same abr. Spectator (Property ed) 8:22 Ag 6 '42

War Damage officer calls federal agency outside state rules; Massachusetts policies held as binding contracts. East Underw 43:1+ Ag 7 '42

War damage policies must be signed by residents in Tennessee. J. M. McCormack. Weekly Underw 147:119 Jl 18 '42

War damage provisions summarized. J. J. Magrath. Weekly Underw 146:828 Ap 11 '42

War damage sale continues at steady pace. Nat Underw 46:2+ Jl 30 '42

War insurance. Bankers M 144:46-7 Ja '42

War insurance coverage extended to possessions. Comm & Fin Chr 155:236 Ja 15 '42

War risk fire insurance problems studied at American bar association meeting; abstracts. J. S. Foster. East Underw 43:15 Ag 28 '42; Weekly Underw 147:444-6 Ag 29 '42

WAR department building. See United States—War department—Buildings

WAR documentation center

War documentation center: a centralized cataloging and bibliographical service for war publications. Special Lib 33:167+ My-Je '42

WAR emergency pipeline, inc.

W. Alton Jones, president Cities service co. New York, named head. Am Gas J 157:37 S '42

WAR finance

Alternatives in war finance. T. K. Hitch. Survey of Cur Business 22:15-22 O '42

Annual rate of monthly disbursements for war materials in World war I and World war II; chart. Survey of Cur Business 21:2 D '41

Bank co-operation in war finance. R. G. Rodkey. Burroughs Clearing House 26:16-18+ Ag '42

Bonds and-or taxes. P. F. Cadman. Banking 34:24-5 F '42

Canada's economic policy in war. G. F. Towers. Bankers M 145:211-16 S '42

Commercial banks essential to war financing. D. W. Bell. Comm & Fin Chr 156:1525+ O 29 '42; Excerpts. Inv Banking 13:21-4 D '42

Compulsory loans in war financing; England, Canada, and New Zealand may have set an example. A. G. Buehler. Harvard Business R 21 no 1:115-23 [S] '42

Drain on Gotham; New York banks feel pressure of war financing. Business Week p78+ Jl 11 '42

Dynamics of inflation. T. Koopmans. R Econ Statis 24:53-65 My '42

Effects of war financing on banks. W. R. Burgess. Banking 35:16-17 S '42; Same. Bankers M 145:203-6 S '42

Financial management problems in a war economy. R. A. Foulke. il Dun's R 50:10-22, 44-50 Ja '42

Fiscal planning for total war. W. L. Crum, J. F. Fennelly and L. H. Seltzer. 358p $3 Nat. bur. econ. research, 1819 Broadway, New York '42

For easy money; Federal Reserve purchase of $200,000,000 of Treasury securities helps keep down the cost of war financing. Business Week p94 Ag 15 '42

Four point tax plan; how to finance war. C. R. Keyser. Credit & Fin Management 44:22-6 Jl '42

How Canada finances victory. C. M. Short. Banking 34:28+ Ja '42

How Canada sells its war loans. F. H. McConnell. Barron's 22:18 F 16 '42

How Canada's press is handling war finance advertising; paid campaign by government is supplemented by copy contributed by civilians. Ptr Ink 201:28 O 2 '42

Income taxes should be collected at the source of payment; abstract. H. Spero. Bankers M 144:48 Ja '42

Increase corporate, individual taxes; favors withholding tax. M. S. Eccles. Comm & Fin Chr 155:771 F 19 '42; Same. Fed Res Bul 28:211-13 Mr '42; Excerpts. Trusts & Estates 74:247 Mr '42

Instalment selling in reverse; paying now for after-war delivery; plan of Marketing research group of War work committee of Advertising club of New York. C. C. Green. il Ptr Ink 199:13-14+ My 22 '42

Insurance has big part in financing war effort; abstracts. C. L. Parry. Nat Underw (Life ed) 46:3+ Ja 2 '42; Trusts & Estates 74:253-4 Mr '42

Life insurance and war finance. A. J. McAndless. East Underw 43:30 pt 2 O 9 '42

Loan drive set; Ottawa organizes whole community to put $750,000,000 victory issue over top. Business Week p68+ O 17 '42

Magnitude of fiscal problem; abstracts. G. L. Harrison. Nat Underw (Life ed) 46:2+ O 16 '42; East Underw 43:12 O 16 '42

Measuring national income as affected by the war. M. Gilbert. Am Statis Assn J 37:186-98 Je '42

Methods of meeting government's needs for funds. M. S. Eccles. Comm & Fin Chr 156:1528 O 29 '42

Nature and size of the war financing program. Fed Res Bul 28:765-7 Ag '42

New forces affecting money, bank loans, investments. H. M. Tremaine. Mag of Wall St 70:586-7+ S 19 '42

Nugent's panacea; instalment selling in reverse. Business Week p67-8 Jl 18 '42

WAR finance—*Continued*

$100,000 per minute. Trusts & Estates 74:5-6 Ja '42

Our powerful credit weapon. R. A. Foulke. il Banking 34:19-22+ F '42

Pay now for goods to be delivered after the war; plan studied by OPA. Steel 111:32-3 Jl 27 '42

Plan for a U.S. bonus war loan. P. Haensel. Trusts & Estates 75:129 Ag '42

Plan for instalment purchase of peace priorities; goods for post-war delivery. Trusts & Estates 74:547-9 Je '42

Post-war income reserve. Trusts & Estates 73:582-3 D '41

Rationing consumer expenditure. S. Weintraub. Harvard Business R 21 no 1:109-14 [S] '42

Recommendations for new tax legislation; interrelated incentive-saving and debt-payment proposal; statement of Walter A. M. Cooper, chairman of the committee on federal taxation of the American institute of accountants, before the Senate finance committee. J Account 74:202-5 S '42

Save billions for defense. H. Morgenthau, jr. Comm & Fin Chr 155:784 F 19 '42

Sees lottery way to raise war billions. J. R. Crawford. Comm & Fin Chr 156:1431 O 22 '42

Sell tomorrow today! promoting post-war products now; moving war bonds. F. Bohen. Ptr Ink 200:13-14+ Jl 24 '42

Sinews of American war. C. A. Shively. Economist 142:66-7 Ja 17 '42; Abstract. Comm & Fin Chr 155:868 F 26 '42

60% of United States World war I costs found met by decreased consumption. Comm & Fin Chr 155:568 F 5 '42

Some problems of war finance. W. S. McLucas. Bankers M 144:135-6 F '42

Swords and plowshares; modern stocks and bonds originated in need of war finance. J. Early. Barron's 22:20 Mr 23 '42

Today's foundation for post-war stability. L. Stern. Mag of Wall St 70:167-9+ My 30 '42

Total war vs. total comfort; abstract. Trusts & Estates 74:32-3 Ja '42

Treasury explains about contributions for war purposes. Comm & Fin Chr 155:27 Ja 1 '42

Treasury financing in two wars. Nat City Bank p 109 O '42

United States at war. W. W. Aldrich. Bankers M 144:157-9 F '42

V loans soar. Business Week p98 S 19 '42

Victory cannot be bought; organizing machines, materials, and manpower is crucial. chart Fortune 25:60-1+ F '42

War bonds in seven wars. il Banking 35:36-7 Ag '42

War borrowing. Business Week p52 D 20 '41

War budget and costs. R. E. Badger. Trusts & Estates 74:135-6 F '42

War debt burden; Canada's problems. Trusts & Estates 73:597-8 D '41

War finance. H. W. Morgenthau. Burroughs Clearing House 26:15+ S '42

War finance and the civilian economy. J. K. Langum. Credit & Fin Management 44:4-6 N '42

War finance consequences. R. M. Bissell, jr. Trusts & Estates 75:130 Ag '42

War finance in Canada. G. W. Spinney. il Banking 35:26-8 S '42; Same. Comm & Fin Chr 156:1082-3 S 24 '42; Excerpts. Trusts & Estates 75:351 O '42

War finance policy. M. Shields. Trusts & Estates 74:563-4 Je '42

War, guns or butter? W. A. Irwin. il Am Inst Banking Bul 24:5-6+ Ja '42

Wartime developments in British finance. For Comm W 6:6-7+ Ja 3 '42

Washington fiscal policy; its war and post-war aims. G. Colm and G. M. Alter. Fortune 26:122-3+ O '42

Where the money's coming from. J. P. Broderick. Barron's 22:3 Ja 26 '42

Why business won't crash because of huge war debt. J. L. Wick. Ptr Ink 200:17-18 S 25 '42

See also

Finance—Canada
Finance—Great Britain
Finance—United States
Saving, Compulsory
World war, 1939—Finance
World war, 1939—United States—Lend-lease law

WAR gases. See Gases, Asphyxiating and poisonous

WAR industries board, 1918

Priorities division

Competition under rationing. C. I. Gragg, A. Grimshaw and S. F. Teele. Harvard Business R 20 no 2:141-55 [Ja] '42

WAR industries committee, San Francisco. See San Francisco—War industries committee

WAR information, Office of. See United States—War information, Office of

WAR insurance corporation. See War damage corporation

WAR labor board. See National war labor board

WAR manpower commission

Fair employment group transfer explained. Comm & Fin Chr 156:728 Ag 27 '42

Get ready now for manpower control. il Factory Management 100:58-64 Jl '42

Here's the manpower program. Business Week p15-16 Jl 4 '42

Manpower control comes to life. il Business Week p17-19 O 3 '42

War manpower commission; organization and powers. Monthly Labor R 54:1325-7 Je '42

War production offensive speeds up training for industrial army; Apprentice-training services, War man-power commission. W. F. Patterson. il Foundry 70:74-5, 160-2 N '42

Wartime labor directives of Manpower commission. Monthly Labor R 55:223-6 Ag '42

WAR materials, inc.

New government corporation to buy scrap metal. Comm & Fin Chr 156:818 S 3 '42

Scrap-getters. Business Week p58 S 12 '42

WAR measures

Adjusted for war; business on West coast is made laboratory example in meeting blackout problem and other emergencies. il Business Week p19-20+ D 20 '41

Arms and the manpower; mobilization of the total labor force is Washington's next great task. charts Fortune 25:72-5+ Ap '42

Atlantic seaboard to be military area. Comm & Fin Chr 155:1710 Ap 30 '42

Blueprint for wartime living; abstract. Management R 31:297-8 S '42

Business and the new war economy; President's anti-inflation program wins general approval. Business Week p15-16 My 2 '42

Canada's travel problem. S. A. Shepherd. Bankers M 143:380-4+ N '41

Canadian wartime price control. J. Backman. Dun's R 49:11-19+ D '41

Duties due to go; Canada sees faster flow of war goods between Dominion and United States. Business Week p51-2 Je 27 '42

Effort to preserve machinery intact for war use; order stopping scheduled sale at auction. For Comm W 6:19 Mr 14 '42

Foreign war economy. Published in monthly numbers of Trusts and estates

Has Washington stifled driving power of business? E. Whitmore. il Am Business 12:7-9+ Ag '42

Helping retailers; Britain devises a system which would let shopkeepers close now, reopen after war. Business Week p60+ Ag 22 '42

How Britain fights inflation. Business Week p34+ Ap 25 '42

How Britain meets problems like ours; methods of handling wage rates and labor relations, shortages of materials, and non-essential businesses. H. Lawrence. Barron's 21:3 D 1 '41

How Canada meets the issue of war. K. R. Wilson. Inland Ptr 109:45-6 Je; 60 Jl; 63-4 S '42

WAR measures—*Continued*
How industry is regulated in wartime Britain. il Factory Management 99:77+ D '41
Industrial conservation in the first World war. S. Stewart. Monthly Labor R 54:16-33 Ja '42
Labor regulations of the military government of Hawaii. Monthly Labor R 54:1323-4 Je '42
Mines licensed; Canada acts to prevent any expansion in output of gold and silver. Business Week p36+ Jl 11 '42
Mobilization of industry and labor in Great Britain. Monthly Labor R 55:25-41 Jl '42
More shipping space; departure from terms of International loadline convention. Economist 141:516 O 25 '41
More war plants; Canada moves to convert small shops shut off from raw materials. Business Week p42+ Je 13 '42
Municipal war code of emergency ordinances. Eng N 128:979 Je 18 '42
New patterns of government regulation. Nat City Bank p121-3 N '42
Only a nucleus; industrial concentration in Britain exemplified by wartime program for soft drink manufacturers. Business Week p50 Ag 8 '42
Oppose Patman bill as real estate threat. Comm & Fin Chr 155:2039 My 28 '42
Ottawa's Donald; total war economy which U.S. can't afford to overlook. Business Week p38+ Ap 4 '42
Pinch of shortages starting to affect military output as well as civilian life. E. Blair. Barron's 22:4 Je 1 '42
Pooling on planes; war output coordination. Business Week p55-6 F 7 '42
President outlines anti-inflation program to Congress; heavier taxation, price, wage ceilings. Comm & Fin Chr 155:1708-9 Ap 30 '42
Profit pooling; newsprint industry cuts pattern for concentration of Canada's civilian enterprise and split of profits. Business Week p66+ O 31 '42
Review of Canadian wartime trade control measures. M. H. Fricker. For Comm W 7:6-7+ Ap 18; 7-9 Ap 25 '42
Shift of personnel to war agencies speeded. Comm & Fin Chr 155:865 F 26 '42
Standardization; Canada moves to regulate qualities and sizes. Business Week p69-71 Mr 14 '42
Standards in the war effort. il Ind Stand 13:137-81 Je '42
Stop orders; edicts that force industry to convert follow no consistent pattern. Business Week p16-17 Ap 11 '42
Summary of war regulations up to Jan. 2, 1942; priorities, allocations, import and price controls. Chem Ind 50:283-98 pt 2 F '42 [cont monthly]
Tighter controls all along line; managed economy now virtually a fact. Business Week p13-14 Ja 31 '42
Unessential production; Board of trade proposals for limiting consumption goods. Economist 143:89 Jl 18 '42
Utilities after Pearl Harbor. T. N. Sandifer. Pub Util 29:210-15 F 12 '42
War concentrates industry; British plan for boosting arms production. Business Week p30-2 D 20 '41
War economy in Canada. G. T. Cartinhour. Bankers M 144:305-9 Ap '42
Wartime price and trade controls in Australia. M. B. Dale. il For Comm W 6:8-9+ Ja 3 '42
Where tax policy fails; limits of fiscal policy for maximum war production. K. H. Niebyl. Trusts & Estates 74:235-8 Mr '42; Discussion (Where tax policy is needed). H. S. Bloch. 74:357-9 Ap '42

Winning the war. J. A. Krout, ed. Academy of Political Science Proceedings 20:1-100 My '42 (pa $2.50)

See also
Air raids—Protective measures
Electric utilities—War problems
Electricity supply—War measures
Enemy aliens
Gas industry—War measures
Highway administration—War measures
Industrial mobilization
Insurance, War risk
Lighting—War measures
Prices—Regulation
Priorities and allocations, Industrial
Rationing
Requisitioning
World war, 1939—Commodity control
World war, 1939—Labor problems
World war, 1939—Laws and legislation

WAR metallurgy committee. See National academy of sciences—War metallurgy committee

WAR news
Government to reveal wartime information. Comm & Fin Chr 155:1249 Mr 26 '42

WAR orders. See Contracts, Government; Munitions—Manufacture

WAR petroleum corporation (proposed)
War petroleum corp. gains Coordinator's favor as way to maintain oil supplies. H. D. Ralph. Oil & Gas J 41:13-14 Jl 2 '42

WAR photographs
Footnotes to war photography. il Fortune 25:12+ F '42
How and where to get approval for wartime copy and photographs. A. P. Mills. map Ind Marketing 27:13-14 F '42
You can't take that! what you may and may not photograph in wartime. D. Featherstonhaugh. il Am Phot 36:8-10 Jl '42

WAR posters
How do you rank these posters? il Adv & Sell 35:36 Je '42
Poster comes to life as soldier, sailor and welder meet; models for war poster meet in plant of Allegheny Ludlum steel corp. il Steel 111:32-3 Ag 31 '42
Soviet war posters remarkable for humor and animation. il Ptr Ink 199:15 My 22 '42

See also
Posters

WAR production board. See United States—War production board

WAR profits
Army sifts contract costs; Chicago ordnance district's questionnaire. Business Week p15-17 Ag 1 '42
Bethlehem steel corp. upheld by U.S. Supreme court on 1917-18 war profits. Comm & Fin Chr 155:820 F 24 '42
Blueprint for freedom. E. E. Wilson. Trusts & Estates 74:466-7 My '42
British profits ebb. Business Week p41-2 Ap 11 '42
Conference board finds British government assumes risks left for business in U.S. Comm & Fin Chr 155:2305+ Je 18 '42
Control of contractors' profits. Banking 35:17 N '42
Earnings on war contracts. Nat City Bank p99-100 S '42; Excerpts. Comm & Fin Chr 156:897 S 10 '42; Trusts & Estates 75:217-18 S '42
Exploding a fallacy; new profit factors for arms producers. B. Hengerer. il Mag of Wall St 69:242-4+ D 13 '41
Fixed profits limits killed in Senate bill. Comm & Fin Chr 155:1447 Ap 9 '42
Industrial structure threatened by confiscatory taxes. E. Blair. Barron's 22:4 Je 22 '42
Limiting profit margins on war orders. H. Lawrence. Barron's 22:20 F 2 '42
Market valuation of war earnings. W. Gates. Mag of Wall St 69:422-4+ Ja 24 '42
Nelson approves 6% profit on war contracts but doubts proposed bill would reach desired aim. Comm & Fin Chr 155:1342 Ap 2 '42
New limitations on war order profits. J. C. Clifford. Mag of Wall St 70:8-10+ Ap 18 '42
Profit ceiling. Trusts & Estates 74:346-7 Ap '42
Profit limitations by Treasury directive; interpretation of T.D. 5000, how it controls cost plus accounting, and how it affects aviation earnings and securities. S. Altschul. Aviation 41:100+ O '42
Profits purge. Business Week p83 Ap 18 '42

WAR profits—*Continued*

Proposals to limit profit to 6 per cent. Nat City Bank p39-40 Ap '42

Proposed profit restrictions; what they will mean to business. J. Hirsch. Trusts & Estates 73:587-91 D '41

Renegotiate war contracts to bar excess profits. Comm & Fin Chr 155:1712 Ap 30 '42

Renegotiation of war contracts; Accounting research bulletin no. 15. J Account 74:319-25 O '42

Rules for renegotiation. Business Week p14-15 Ag 22 '42

Senate committee studies war contract renegotiation changes. Comm & Fin Chr 156: 1177+ O 1 '42

Senator George announces move to repeal law on war contract negotiation; limit war profits. Comm & Fin Chr 156:537+ Ag 13 '42

Supreme court in Bethlehem shipbuilding case rules that Congress can draft business. Comm & Fin Chr 155:745+ F 19 '42

Surety men eye effect of excess war profits act. Nat Underw 46:20+ Je 11 '42

Taxation of war profits. Nat City Bank p55-9 My '42

This hullabaloo about profits; time for business to speak. J. Garth. Am Business 12: 9-11+ My '42

Those war profits again! W. Chevalier. Business Week p67 Ja 24 '42

Treasury establishes rules for return of excess war profits. Steel 111:23-4 S 28 '42

Treasury opposes 6% limit on naval profits; favors high income, excess-profits taxes. R. Paul. Comm & Fin Chr 155:1358 Ap 2 '42

War fund bill passed by House with 6% profit limit. Comm & Fin Chr 155:1341 Ap 2 '42

War-profit curb? Business Week p14 Ja 31 '42

War profits and conversion reserves for return to peace time operation. S. Frank. J Account 74:353-4 O '42

What are costs? being redefined both in war contracts and in computation of taxes. Business Week p17-18 Je 13 '42

WAR relocation authority

Executive order establishing office. Fed Res Bul 28:305-6 Ap '42

President creates War relocation authority. Comm & Fin Chr 155:1244 Mr 26 '42

Relocation authority has ten centers under way to house Jap war evacuees. Eng N 129: 59 Jl 9 '42

WAR reserves. See Reserves

WAR risk insurance. See Insurance, Marine—War risks; Insurance, War risk

WAR savings stamps

Advertising

Trade-marks to the rescue! selling War stamps to masses. W. W. Wachtel. il Ptr Ink 200:11-18 Jl 17 '42

WAR shipping administration

Bills of lading; WSA rules on cargoes. Weekly Underw 147:1017 O 31 '42

Cargo war risk underwriting program of the WSA; abstracts. H. C. Thorn. East Underw 43:31+ O 2 '42; Nat Underw 46:1+ O 1 '42; Weekly Underw 147:781+ O 3 '42

Valuations are biggest problem in acting for WSA. R. B. Mitchell. Nat Underw 46:1+ S 10 '42

War shipping administration takes over training of officers and seamen. Marine Eng 47:166+ Ag '42

WAR ships. See Warships

WAR songs

No singing war; failure of hit songs to materialize. Business Week p74-6 Jl 25 '42

WAR workers. See Munition factories—Employees

WARD baking company

Proposes recapitalization, etc. Comm & Fin Chr 156:791 Ag 31 '42

WARDROBES. See Closets

WAREHOUSE receipts

Additional loans allowed with field warehouse protection. J. Y. Beaty. map Bankers Mo 59:258-60+ Je '42

Aids in financing war goods. C. Djorup. Banking 34:27 Je '42

Field warehouse financing. C. Djorup. Banking 35:59-60+ S '42; Excerpts. Bankers M 145:341-2 O '42

How warehousemen are serving industry. S. H. Cooke. Bankers M 144:20-5 Ja '42

There may be some new loans in your credit files; stored commodities. Bankers Mo 59: 58-9+ F '42

Warehouse receipts; General maximum price regulation. Banking 35:48 Jl '42

WAREHOUSES

Army warehouse design saves steel. il Eng N 128:204-6 Ja 29 '42

Built on schedule and below estimate; steel-frame concrete and brick warehouse built by Cincinnati district, U.S. Engineers. il Eng N 129:482-3 O 8 '42

Construction expedients on warehouses; brick walls, precast concrete lintels, wood frame windows, and timber trusses. il Eng N 129:20-1 Jl 2 '42

Estimated building schedule: 9 months; how the job was done in 26 weeks. il Eng N 128: 886-7 My 28 '42

Expansion provides Tacoma plant with 113 by 500-foot clear floor area. il diags Am Bld 64:58-9 Je '42

Monolithic concrete barrel-roof design for U.S. navy supply depot. il diag Concrete 50:5-6 My '42

Navy warehouse foundation on bottom-bearing piles with concrete tips. J. H. Thornley. il Civil Eng 12:372-3 Jl '42

New plants of 1941; glass products warehouse. il Factory Management 100:B74 Ap '42

New plants of 1941; radio products warehouse. il Factory Management 100:B50-B51 Ap '42

Place acres of concrete warehouse floors at quartermaster depot. il Concrete 50:5+ F '42

Plants for storage, idle factories and other buildings in Philadelphia are enlisted. Business Week p34 Jl 18 '42

Plywood girders roof a warehouse; RCA manufacturing co. il diag Eng N 128:625-6 Ap 23 '42

Precast concrete framing units for navy warehouse. il diags Eng N 127:879-81 D 18 '41

Substantial service roads speed army base construction; warehouses for a quartermaster base; concrete and wood construction. il Eng N 128:768-71 My 7 '42

Warehouse bulge. Business Week p30-2 F 21 '42

Warehouse designed to speed construction. il Eng N 128:622-4 Ap 23 '42

Warehouse without priority materials. il Eng N 128:473 Mr 26 '42

See also

Cold storage warehouses

Grain elevators

Accounting

Confirmation of inventories in public warehouses; report of a subcommittee of American institute of accountants. J Account 74: 446-7 N '42

Fires and fire protection

Significant facts in $625,000 warehouse loss. Nat Underw 46:2 Ja 22 '42

Heating and ventilation

Exhaust office air heats steel storage warehouse. il Heating-Piping 14:553-4 S '42

Sherwin-Williams company; chemical building and warehouse. G. S. Whittaker. il Heat & Ven 39:90-3 Ja '42

WAREHOUSING

City bank helps correspondent set up field warehouse loan. F. M. Horton. Bankers Mo 59:162+ Ap '42

Larger inventories with field warehousing. Bankers Mo 59:448-9 O '42

WAREHOUSING—*Continued*
New definition of warehouses needed under priorities setup; abstract. W. Doxsey. Iron Age 149:100-1 My 14 '42
Warehouse pools; U.S.-sponsored association in Kansas City sets pattern. Business Week p55-6 Ap 25 '42

WARM air furnaces. See Furnaces, Warm air

WARM air heating. See Heating, Warm air

WARM air heating and air conditioning association, National. See National warm air heating and air conditioning association

WARNER and Swasey company
Annual report. Comm & Fin Chr 155:739 F 17 '42
Machine tool maker's dilemma; Warner & Swasey has boosted turret-lathe production 700 per cent; what happens to W. & S. while they are wearing out? il Fortune 26: 104-7+ O '42

WARNER brothers pictures, inc.
Annual report. Comm & Fin Chr 154:1386 D 6 '41
Another look. Mag of Wall St 70:291+ Je 27 '42
Debenture 6s, 1948; increase in earnings improve position of bonds. Comm & Fin Chr 154:1322 D 4 '41
Speculative survey. P. Dobbs. il Mag of Wall St 71:82-3+ O 31 '42

WARNER company
Plan of extension of first mortgage bonds. Comm & Fin Chr 156:268 Jl 23 '42

WARRANTS, Stock purchase
Stock purchase warrants are a long term call; position of purchase warrants. Mag of Wall St 70:559+ S 5 '42

WARRANTY
Validity of contract limiting liability of warranty; how one manufacturer protected himself against liability under common law and the Uniform sales acts. L. Childs. Ind Marketing 27:32+ F '42

WARREN, Ohio

Sewerage

Jacking a sewer under a railroad. W. S. Harvey. il diag Eng N 129:22-4 Jl 2 '42

WARREN brothers company
Committee recommends acceptance of plan of reorganization. Comm & Fin Chr 155:1847 My 11 '42
Court confirms plan. Comm & Fin Chr 156: 440 Ag 3 '42
Election to take partial distribution in Cuban bonds under plan of reorganization. Comm & Fin Chr 156:1424 O 19 '42
Listing of deposit receipts. Comm & Fin Chr 155:1320 Mr 30 '42
New collateral trust 4½s, 1956; sinking fund provisions reviewed. Comm & Fin Chr 156: 171 Jl 16 '42
Plan approved by court. Comm & Fin Chr 155:739-40 F 17 '42
Reorganization plan as it affects the bondholders. Comm & Fin Chr 155:1694 Ap 30 '42

WARREN foundry and pipe corporation
Another look at your company. Mag of Wall St 70:76 My 2 '42
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 Mr 2 '42

WARSHIPS
Battleship types of three world powers. diags Sci Am 166:220 My '42
Brave ships of England and America. J. Leeming. 344p $2.50 Nelson '41
Fighting fleets. C. Rimington. 240p $3 Dodd '42
Naval construction in 1941. F. McMurtrie. il Engineer 173:12-13+, supp 3, 25-7, 49-51 Ja 2-16 '42
Our fighting ships. M. D. Katz, jr, H. C. Lee and E. L. Levy, jr. 101p bibliog(p90) $2 Harper '42
Practical construction of warships. R. N. Newton. 318p $6 Longmans '41
See also
Armor plate
Torpedo boat destroyers
Torpedo boats

Great Britain

Sir Charles Parsons and the Royal navy. S. Goodall. diags Engineer 173:261-3, 281-2, 309-10 Mr 27-Ap 10 '42

United States

Alternating current in the United States navy. H. G. Rickover. il Elec Eng 61: 289-302 Je '42
Dreadnoughts of the U.S. navy. W. L. Robinson. il Sci Am 166:221-3 My '42
Fighting ships of the U.S. navy. F. Pratt. $1 Garden City pub. co, Garden City, N.Y. '41
Funnels; stainless steel saves over four tons per stack. Sci Am 166:286-7 Je '42
Iowa, world's greatest battleship. il Marine Eng 47:122-3 S '42
Naval indispensables; cruisers can perform a wide range of missions. W. L. Robinson. il Sci Am 167:102-4 S '42
New ships of the U.S. fleet; illustrations. Marine Eng 47:108-9 My '42
Salvage of U.S.S. Lafayette. il diag supp Engineer 174:126-8 Ag 14 '42
Ships and aircraft of the United States fleet. J. C. Fahey. war ed 64p pa $1 Ships and aircraft, 1265 Broadway, New York '42
Slender, speedy, scrappy destroyers are highly important factors in naval warfare. W. L. Robinson. il Sci Am 167:148-50 O '42
Submarine chaser construction at Dravo plant. il Marine Eng 46:75 D '41
Testing our battlecraft before building them; David W. Taylor model basin. R. G. Skerrett. il diags Comp Air M 47:6651-7 F '42
To beat the Axis; Federal launches four destroyers in one hour. il Marine Eng 47:114-16 My '42
U.S.S. Lafayette may be salvaged. il Marine Eng 47:126-8, 130 Je '42
U.S.S. Wolverine ends her career in nationwide drive for scrap. il Marine Eng 47:138 Ag '42

WARTIME bureau of technical personnel. See Canada—Wartime bureau of technical personnel

WASHERS (machinery)
Engineered containers for lock washers help streamline packing and shipping methods; Geo. K. Garrett co. il Steel 111:64+ Ag 31 '42
Wire-bound boxes replace kegs for lock washers. il Iron Age 150:67 Ag 13 '42

Manufacture

Fixture helps tap vulcanized fiber washers. C. H. Willey. diags Am Mach 86:446 My 14 '42

WASHING
See also
Coal washing
Laundry
Washing machines

WASHING agents. See Cleaning compositions

WASHING apparatus
Metallizing of milk can washing equipment. il Metal Finishing 40:301+ Je '42
Steam cleaner improved. W. A. Wallace. plan Transit J 86:144 Ap '42
Washers clear up car windows smudged in Moffat tunnel. il diags Ry Age 112:380-1+ F 14 '42

WASHING apparatus, Laboratory
Continuous washing apparatus for solutions in organic solvents. A. L. LeRosen. il diags Ind & Eng Chem Anal ed 14:165 F 15 '42

WASHING machines
Plastics competition award to Easy washing machine corp. il Mod Plastics 19:98-9 N '41

WASHING machines—*Continued*

Substitutes in home equipment; agitators and wringers for washing machines. il diags Product Eng 13:204-7 Ap '42

Manufacture

Finishing of washing machines. C. Cleveland. il Metal Finishing 40:112, 114 F '42

Patents

Bendix home appliances, inc. wins patent suit; retains exclusive rights in domestic size automatic washing machines. Comm & Fin Chr 155:153 Ja 10 '42

WASHING machines, Electric

Automatic control for washing machines. W. J. Russell. il diags Elec Eng 61:89-92 F '42

Business guide for electrical dealers and salesmen; repair and service business. Elec West 88:75-7 Je '42

WASHING machines (for metal parts)

Electric heat speeds product washing. il Elec W 118:976+ S 19 '42

How a great airline keeps its vital aircraft instruments clean. R. K. Farnham. il Instruments 15:122+ Ap '42

Ingenious cleaning; Calrod heater installed in second-hand washing machine; Koch manufacturing company. il Gen Elec R 45:594 O '42

WASHINGTON, George, 1732-1799

Portrait by Trumbull. Fortune 25:36 Ja '42

Was Washington an engineer? G. F. Bush. Mech Eng 64:130-1 F '42

WASHINGTON, D.C.

Washington, D.C., a guide to the nation's capital. 528p bibliog(p505-12) $3.50 Hastings house, 67 W. 44th st, New York '42

Washington is like that. W. M. Kiplinger. 522p bibliog(p493-9) $3.50 Harper '42

See also

Housing—Washington, D.C.

Labor and laboring classes—Washington, D.C.

Motor bus lines—Washington, D.C.

Architecture

Concreting a 100-acre office building; War department office building in Arlington, Va. il Eng N 128:920-4 Je 4 '42

Planning the world's largest building. il plans Eng N 129:569-75 O 22 '42

Bridges

To get into (or away from) Washington more easily. il Eng N 127:707 N 20 '41

Hotels

Hotel Statler. il diags plan Arch Rec 92:14, 16 Ag '42

Two Washington, D.C. hotels. il plans Arch Forum 77:60-3 Ag '42

Rapid transit

Increasing the efficiency of bus use; staggering hours of employment and schools; experience in Nation's capitol. D. J. Locke. Bus Transportation 21:134-7 Mr '42

Street cars all-important in Washington. J. B. Ecker. il Mass Transportation 38:229-32 S '42

See also

Capital transit company

Sewerage

Capital's sewage adds to pollution of Potomac. Eng N 129:331 S 3 '42

Operating experiences at Anacostia sewage plant. Eng N 129:231 Ag 13 '42

WASHINGTON (state)

Roaring land. A. Binns. 284p $3 Robert M. McBride & co, New York '42

Washington: the Evergreen state; yesterday, today, tomorrow. J. W. Goddard. 311p bibliog(p303-5) $1.60 Scribner '42

See also Mines and mineral resources—Washington (state)

WASHINGTON, Mount

Indications as to climatic changes from the timberline of Mount Washington. R. F. Griggs. bibliog Science 95:515-19 My 22 '42

WASHINGTON award

Washington award for 1942 presented to William Lamont Abbott. L. R. Howson. W Soc E J 47:3-8 F '42

Washington award to W. L. Abbott. Elec W News ed 117:904-5 Mr 14 '42

WASHINGTON conference on theoretical physics. See Conference on theoretical physics

WASHINGTON gas light company

Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:645 O 3 '42

Preferred stock offered. Comm & Fin Chr 155:1847-8 My 11 '42

WASHINGTON life insurance company

F.S.A. insurance causes stir in Iowa. Nat Underw (Life ed) 46:7 My 8 '42

WASHROOMS. See Lavatories

WASTE

Conserving power, air, and gas; Corning glass works, Corning, N.Y. F. S. Kriger. Factory Management 100:141-2+ Ag '42

Great waste. K. Aldinger. Mech Eng 64:807-8 N '42

Ideas for avoiding waste; bank supplies. il Bankers Mo 59:113-14 Mr '42

Program for control of waste; Johnson & Johnson's surgical dressings; abstract. R. C. Dowell. Management R 31:389-90 N '42

Spoonful of peas, a handful of cotter pins; plea for elimination of waste. il Bus Transportation 21:182-3 Ap '42

Survey of office conservation programs; abstract. Management R 31:193-4 Je '42

These ideas will cut costs in 1942. il Am Business 12:19-20 Ja '42

This plan cuts costs of office supplies; Brunswick-Balke-Collender company. W. K. Panzenhagen. Am Business 12:17, 46 Ap '42

Three hundred Panama canals in one year; war production task; help by saving. J. L. Walsh. Ry Mech Eng 116:291-3 Jl '42

University of Minnesota conducts waste survey at plant of Minnesota and Ontario paper co. F. B. Rowley and R. C. Jordan. il Paper Tr J 113:106, 108-9 N 27 '41

Unused resources and economic waste. D. Rockefeller. 260p bibliog(p238-49) $2 Univ. of Chicago press '41

Waging a war against waste; Miller company, Meriden, Conn. H. L. Harrison. Factory Management 100:109 Ag '42

War against waste. Sales Management 51:44 Jl 15 '42

Washroom paper economy is advertised as war measure; Scott paper company, oversold, organizes fight on waste. il Ptr Ink 199:12-13 Ap 17 '42

Wasteful foundry practice. P. R. Ramp. diags Iron Age 149:34-6 Ja 15 '42

Where's and how's of better utilization of materials, equipment and labor. P. Jessen. Advanced Management 7:86-90 Ap-Je '42

See also

Conservation of resources

Paper—Conservation

Paper mills—Waste

Petroleum refineries—Waste

Rubber waste

Salvage (waste, etc.)

Scrap metal

Trade waste

Waste heat

Waste paper

Waste products

Wood waste

WASTE, Utilization of

Fiberizing of kraft screenings for paper and paperboard furnishes. C. K. Textor. il Paper Tr J 114:42-5 My 7 '42

Recovery of chemicals from pickling liquor and copperas waste. H. W. Gehm. Ind & Eng Chem 34:382-4 Mr '42

Salvage of waste materials in the chemical industry. A. B. Manning and others. Inst Chem Eng Trans 18:115-28 '40

See also

Farm produce—By-products

Oil reclamation

Refuse, Utilization of

Salvage (waste, etc.)

Scrap metal

Solvents—Recovery

Waste products

WASTE disposal. See Refuse disposal; Trade waste

WASTE fuel

Surplus grains fuel Argentine boilers; corn, pulverized barley, bran, sorghum, seedcake and sunflower-seed husks replace coal and oil. il diags Power 86:538-41 Ag '42

Utilization of coal dust and slurry from mines. J. C. Coutant. Blast F & Steel Pl 30:1038+ S '42

See also

Blast furnace gas
Coke-oven gas
Sawdust
Sewage sludge—Gas production

WASTE heat

Aspects of waste heat recovery from horizontal retorts. J. Castle. Gas J (Lond) 236: 97 O 15 '41

Diesel waste heat; jacket water used to heat water for plant use. diags Power 86: 349-51 Ap '42

Exhaust office air heats steel storage warehouse. il Heating-Piping 14:553-4 S '42

Heat recoverable in Diesel installations; abstract. F. P. Grutzner. diags Power 86: 546-7 Ag '42

New firing methods reduce fuel costs and give more uniform burning; Richard C. Remmey sons co. il diags Brick & Clay Rec 101:24-5 S '42

Preheating of boiler feed water. G. M. Stearns. Oil & Gas J 41:70 S 10 '42

Report of the gas engine power committee for 1941; high temperature cooling and waste heat recovery. il diag Am Gas Assn Proc 1941:376-80

Salvaging heat from quenching oil. il Iron Age 149:62 F 5 '42

Waste heat dryer; abstract. L. R. Whitaker. plan Brick & Clay Rec 100:33-4 My '42

See also

Blast furnace gas
Boilers, Waste heat
Coke-oven gas
Heat exchangers
Sewage sludge—Gas production
Steam plants—By-product power
Waste fuel

WASTE paper

Britain's waste-paper salvage. For Comm W 8:29 S 19 '42

Broke handling methods 1941; answers to questionnaire from four mills or groups of mills. Pulp & Pa of Can (Convention no) 43:167-8 [F] '42

Disposal of old books and papers; effect of Statute of limitations and other enactments in requiring retention of office records. Engineering 153:475 Je 12 '42

Salvage of fibers, papers and rags. W. T. Clark. Mech Eng 64:460 Je '42

Special equipment advanced de-inking; forty years of progress. J. Buss. Pulp & Pa of Can 43:601-2 Jl '42

Wastepaper. A. B. Dickerman. Harvard Business R 20 no 4:446-58 [Jl] '42

Waste paper and the paper mills. Engineer 173:246 Mr 20 '42

Waste paper essential raw material. C. V. Hodder. Pulp & Pa of Can 43:397 Ap '42

Wastes from the manufacture of paper from old-paper stock. E. F. Eldridge. flow diag Water Works & Sewerage 89:124-7 Mr '42

Bibliography

Broke handling methods; a literature review. Pulp & Pa of Can (Convention no) 43: 166-7 [F] '42

Prices

Paper stock prices. Paper Tr J 114:70-1 Je 25 '42

Waste paper changes. Paper Tr J 113:29 D 25 '41

WASTE products

Utilization of pickle liquor. F. J. Van Antwerpen. il Ind & Eng Chem 34:1138-41 O '42

See also

Blast furnace gas
Chemurgy
Coke manufacture—By-products
Coke-oven gas
Flue dust
Flue gas
Foundries—Waste
Gas manufacture—By-products
Lignin
Salvage (waste, etc.)
Scrap metal
Sewage sludge—Gas production
Slag
Straw
Sulfite liquor
Tailings
Trade waste
Waste fuel
Waste paper
Wood waste

WATCHES

Time to exact second with new wrist watch. il Sci Am 166:88+ F '42

War's timepieces; serious shortage is in skilled labor. Business Week p67-8 Ap 4 '42

Wrist watches. il Consumers' Research Bul 9:1-4 N '41

WATCHES, Stop. See Stop watches

WATCHMEN

Person employed exclusively as watchman not under wage-hour law. Monthly Labor R 53:1460-1 D '41

Watch your watchman. C. M. Chase and C. F. Von Rhee. Am Mach 86:160+ F 19 '42

WATER

Anomalous electroreduction of water at the dropping mercury electrode in relatively concentrated salt solutions. E. F. Orlemann and I. M. Kolthoff. bibliog diag Am Chem Soc J 64:833-8 Ap '42

Binary system carbon dioxide-water under pressure. R. Wiebe. bibliog Chem R 29: 475-81 D '41

Catalytic effect of water on the aminolysis of ethyl phenylacetate in *n*-butylamine. P. K. Glasoe, L. D. Scott and L. F. Audrieth. Am Chem Soc J 63:2965-7 N '41

Determination of water in insulating oil; manometric procedure. R. N. Evans and J. E. Davenport. diag Ind & Eng Chem Anal ed 14:732-3 S 15 '42

Effect of salts on the mutual miscibility of normal butyl alcohol and water. L. A. Reber, M. M. McNabb and W. W. Lucasse. bibliog J Phys Chem 46:500-15 Ap '42

Further experiments on the evaporation of water from saturated surfaces. R. W. Powell. bibliog Inst Chem Eng Trans 18: 36-50 '40; Same abr. Engineering 150:238-9, 278-80 S 20, O 4 '40; Discussion. Inst Chem Eng Trans 18:51-5 '40

Mean life of neutrons in water and the hydrogen capture cross section. J. H. Manley, L. J. Haworth and E. A. Luebke. bibliog Phys R 61:152-5 F 1 '42

New method for determining dineric distribution. W. D. Bancroft and S. S. Hubard. Am Chem Soc J 64:347-53 F '42

Packed tower performance at high liquor rates; the effect of gas and liquor rates upon performance in a tower packed with two-inch rings. C. M. Cooper, R. J. Christl and L. C. Peery. bibliog diags Am Inst Chem Eng Trans 37:979-93; Discussion. 993-6 D '41

Phase equilibria in hydrocarbon systems; composition of the dew-point gas of the methane-water system. R. H. Olds, B. H. Sage and W. N. Lacey. bibliog Ind & Eng Chem 34:1223-7 O '42

Physics of the earth: v. 9, Hydrology. O. E. Meinzer, ed. 712p $7.50 McGraw-Hill '42

Proceedings of the Hydrology conference, held at State College, Pa., June 30-July 2, 1941. F. T. Mavis, ed. (School of engineering tech. bul. 27) 270p pa $2 Pennsylvania state college, State College, Pa. '42

Rate and mechanism in the reactions of *t*-butyl nitrate and of benzyl nitrate with water and with hydroxyl ion. G. R. Lucas and L. P. Hammett. bibliog Am Chem Soc J 64:1928-37 Ag '42

Reproducible contact angles on reproducible metal surfaces; contact angles of water against silver and gold. F. E. Bartell and P. H. Cardwell. bibliog il diags Am Chem Soc J 64:494-7 Mr '42

Reproducible contact angles on reproducible metal surfaces; interfacial contact angles between water and organic liquids on surfaces of silver and gold. F. E. Bartell and P. H. Cardwell. Am Chem Soc J 64:1530-4 Jl '42

Slowing down of low energy neutrons in water. M. Goldhaber and R. D. O'Neal. Phys R 60:834 D 1 '41

WATER—*Continued*

Vapor pressures of aqueous solutions at high temperatures. N. B. Keevil. bibliog Am Chem Soc J 64:841-50 Ap '42

See also

Air conditioning equipment—Water requirements
Cooling of water
Cooling water
Dehydration
Drinking water systems
Drying
Erosion
Feed water
Floods
Humidity
Hydration
Hydraulic engineering
Hydraulics
Hydrolysis
Ice
Irrigation
Mine water
Moisture
Ocean
Pumping
Rain and rainfall
Rivers
Sea water
Solution (chemistry)
Steam
Water supply and other headings beginning Water
Waterways
Wells
Wetting agents

Aeration

Air-conditioning fish; mechanical means provide oxygen, keep temperature low when transporting hatchery fish. F. W. Taber. il Sci Am 166:240-1 My '42

Relative efficiency of activated carbon and aeration in the removal of tastes and odors. G. G. Bogren. N E Water Works Assn J 56:184-7; Discussion. 187-91 Je '42

Analysis

Acidity and alkalinity measurements. W. A. Taylor. il diag Power Pl Eng 46:64-6 Mr '42

Calcium carbonate saturation index and alkalinity interpretations. T. E. Larson and A. M. Buswell. Am Water Works Assn J 34:1667-78 bibliog(p1678); Discussion. 1679-84 N '42

Calculation of corrections to conductivity measurements for dissolved gases. D. S. McKinney. Am Soc T M Proc 41:1285-95; Discussion. 1296-1301 '41

Chemical character of public water supplies in southeastern Florida. S. K. Love and H. A. Swenson. map Am Water Works Assn J 34:1624-8 N '42

Chemical character of the larger public water supplies in Georgia. W. L. Lamar. map Am Water Works Assn J 34:505-12 Ap '42

Continuous calcium carbonate saturation balance indicator. A. A. Hirsch. diag Ind & Eng Chem Anal ed 13:811-12 N 15 '41

Convenient colorimetric test for phosphates. G. A. Johns. il Power 86:112 F '42

Determination of divalent iron. G. Cronheim and W. Wink. Ind & Eng Chem Anal ed 14:447-8 My 15 '42

Determination of nitrites; discussion of the Shinn method as applied to examination of water. N. F. Kershaw and N. S. Chamberlin. bibliog Ind & Eng Chem Anal ed 14:312-13 Ap 15 '42

Determination of small quantities of fluoride in water; a modified zirconium-alizarin method. W. L. Lamar and C. G. Seegmiller. bibliog Ind & Eng Chem Anal ed 13:901-2 D 15 '41

Determination of tannin substances in boiler waters. A. A. Berk and W. C. Schroeder. bibliog Ind & Eng Chem Anal ed 14:456-9 Je 15 '42

Effect of container on soluble silica content of water samples. C. A. Noll and J. J. Maguire. bibliog Ind & Eng Chem Anal ed 14:569-71 Jl 15 '42

Estimation of metals in water, with special reference to the use of organic reagents; abstract. T. Stones. Am Water Works Assn J 34:1455-8 S '42

Experimental methods of determining conductivity corrections for dissolved gases in steam condensate. S. F. Whirl and W. A. Lower. diags Am Soc T M Proc 41:1277-84; Discussion. 1296-1301 '41

Graphical methods for indicating the mineral character of natural waters. W. F. Langelier and H. F. Ludwig. bibliog diags Am Water works Assn J 34:335-52 Mr '42

Handbook of feedwater treatment; everyday control tests; meaning of water analysis. diags Power 85:894-5 D '41

Ions, parts per million, and equivalents per million, system for reporting results of analysis of water standardized by the American society for testing materials. Mech Eng 64:742-3 O '42

Methods of determining fluorides; committee report. bibliog diags Am Water Works Assn J 33:1965-2017 N '41; Discussion. E. Elvove; R. F. Goudey. 33:2210-14 D '41

Modification of the fluorine determination. R. D. Scott. Am Water Works Assn J 33:2018-20 N '41; Addendum. 34:522 Ap '42

New method of determining residual chlorine. H. C. Marks and J. R. Glass. bibliog diag Am Water Works Assn J 34:1227-40 Ag '42

Operation of water treatment plants; second edition, revised; procedures in testing. W. A. Hardenbergh and others. il diags Pub Works 73:20-7 Je '42

Phosphate determination by the V. Lorenz procedure; abstract. Y. E. Stourdzé. Am Water Works Assn J 34:1460-1 S '42

Present status of tests for organic pollution loads. A. M. Buswell and E. C. Dunlop. Am Water Works Assn J 34:1063-72 bibliog(43 titles, p1071-2) Jl '42

Rapid procedure for determination of carbonate. A. C. Kuyper and L. M. Jones. Ind & Eng Chem Anal ed 13:801-2 N 15 '41

Spectrophotometric estimation of pentachlorophenol in tissues and water. W. Deichmann and L. J. Schafer. diag Ind & Eng Chem Anal ed 14:310-12 Ap 15 '42

See also

Mineral waters—Analysis
Water—Bacteriology
Water—Heavy water—Analysis
Water sampling

Bacteriology

Antagonistic relations of micro-organisms; abstract. S. A. Waksman. Am Water Works Assn J 34:620-2 Ap '42

Bacterial densities from fermentation tube tests. H. A. Thomas, jr. bibliog Am Water Works Assn J 34:572-6 Ap '42

Bacteriologist looks at chlorine. S. M. Costigan. Am Water Works Assn J 34:353-61 bibliog(39 titles, p359-61); Discussion. J. W. Krasauskas. 361-4 Mr '42

Bad Benny, the bacterium; popularized story of water purification and sewage treatment. J. J. Wickham. il Water Works & Sewerage 88:550-2 D '41

Concentrating filter for large water samples. B. R. Ford and M. F. Gunderson. il diags Am Water Works Assn J 34:585-8 Ap '42

Evaluation of coliform organisms in water. F. R. Georgia. bibliog Am Water Works Assn J 34:577-83; Discussion. R. E. Noble. 583-4 Ap '42

Gastro-enteritis and public water supplies; abstract. C. R. Cox. Am Water Works Assn J 34:141 Ja '42

Isolation of an aerobic sporulating lactose-fermenting organism from Philadelphia drinking water. G. M. Eisenberg. Am Water Works Assn J 34:365-6 Mr '42

Methods of water treatment and laboratory control; data on relation of water supply to occurrence of intestinal diseases. Am Water Works Assn J 33:2051-60 N '41

Microbiological deposits and bacteriological corrosion. A. E. Griffin. bibliog il Paper Tr J 115:32-7 S 24 '42

Modification of the routine dilution tests and tables showing the most probable number of organisms and the standard error of this number; also A consideration of the accuracy of estimation of the most probable number of organisms by dilution test; abstract. S. Swaroop. Am Water Works Assn J 34:1466 S '42

Operation of water treatment plants; second edition, revised. W. A. Hardenbergh and others. diags Pub Works 73:26-7 Je '42

Research and control. N. J. Howard. Can Eng W & S 79:20+ N '41; [cont as] Water & Sewage 80:17-18+ Ja; 24+ F '42

WATER—Bacteriology—*Continued*

Role of bacteria in corrosion; chlorination in the control of interior corrosion of pipe lines. A. H. Thomas. bibliog il Water Works & Sewerage 89:367-72 S '42

Bibliography

Bibliography of nomographs on water. R. Myllynen and D. S. Davis, comps. News Ed 19:1499 D 25 '41

Survey of water technology, 1941. L. B. Miller. Paper Tr J 114:38-44 Ap 16 '42

Bound water

Analytical procedures employing Karl Fischer reagent; reactions with inorganic oxides and related compounds; oxidation and reduction reactions. J. Mitchell, jr. and others. bibliog Am Chem Soc J 63:2927-30 N '41

Calcium hydride; its use in the determination of water. Chem Age (Lond) 47:337 O 17 '42

Infra-red absorption spectra of the water molecule in crystals. W. Lyon and E. L. Kinsey. bibliog diag Phys R 61:482-9 Ap 1 '42

Calcium content

See Water supply—Calcium content

Deactivation and deaeration

Deaeration effected by atomization. il Rayon 23:488 Ag '42

Deaeration increases pH. J. D. Yoder. Power 86:175-7 Mr '42

Handbook of feedwater treatment; deaerators. diags Power 85:878-9 D '41

Make deaerating heaters suit plant cycle. W. P. Spining. diags Power 86:717-19, 786-8 O-N '42

Removal of dissolved gases from boiler feed water. A. E. Kittredge. il Blast F & Steel Pl 29:[1130, 1132-3+], 1225-30+ N-D '41

Gas content

Calculation of corrections to conductivity measurements for dissolved gases. D. S. McKinney. Am Soc T M Proc 41:1285-95; Discussion. 1296-1301 '41

Degasification of steam samples for conductivity tests. P. B. Place. diags Am Soc T M Proc 41:1302-12; Discussion. 1313 '41

Experimental methods of determining conductivity corrections for dissolved gases in steam condensate. S. F. Whirl and W. A. Lower. diags Am Soc T M Proc 41:1277-84; Discussion. 1296-1301 '41

Hardness

Chemical aspects of hardness in water and its removal; abstract. T. Stones. Am Water Works Assn J 34:778-9 My '42

Chemical character of the larger public water supplies in Georgia. W. L. Lamar. map Am Water Works Assn J 34:505-12 Ap '42

Handbook of feedwater treatment; carbonate and sulphate hardness. diags Power 85:874 D '41

See also
Water softening

Heavy water

Exchange and transfer equilibria of acids, bases, and salts in deuterium-protium oxide mixtures; the ion product constant of deuterium oxide. R. W. Kingerley and V. K. LaMer. bibliog Am Chem Soc J 63:3256-62 D '41

Hydrogen exchange of aromatic amines with D_2O and T_2O. B. J. Fontana. bibliog Am Chem Soc J 64:2503-4 O '42

Relation of electromotive force to the concentration of deuterium oxide in saturated standard cells. L. H. Brickwedde and G. W. Vinal. bibliog J Research Nat Bur Stand 27:479-89 D '41

Semimicropycnometer for heavy water. B. J. Fontana and M. Calvin. bibliog diags Ind & Eng Chem Anal ed 14:185-6 F 15 '42

Use of heavy water in producing a more constant standard volt. Science 94:sup16 D 19 '41

Analysis

Modified micropipet for density determinations in heavy water analysis. F. Rosebury and W. E. van Heyningen. bibliog diags Ind & Eng Chem Anal ed 14:363-4 Ap 15 '42

Light transmission

General law of diminution of light intensity in natural waters and the percent of diffuse light at different depths. L. V. Whitney. diags Opt Soc Am J 31:714-22 D '41

Mineral content

See Mineral waters; Water supply—Mineral content

Odor

See also
Water purification—Taste and odor removal

Salinity

Salt in irrigation water. R. A. Hill. diags Am Soc C E Proc 67:975-90 Je '41; Discussion. 67:1385-8, 1490-6, 1957-67 S-O, D '41

Testing

Chlorine consumed tests for pollution. H. A. Faber. Am Water Works Assn J 34:746-8 My '42

Enslow continuous stability indicator. R. S. Phillips. il diags Water Works & Sewerage 89:99-101 Mr '42

Enslow stability indicator. il Water & Sewage 80:32 My '42

Limnological observations on San Francisco reservoirs. H. C. Medbery. Am Water Works Assn J 34:719-35 My '42

Operation of water treatment plants; second edition, revised; procedures in testing. W. A. Hardenbergh and others. il diags Pub Works 73:20-7 Je '42

Traveling laboratory control of bottlers' operation; Coca-Cola company. B. Wells. il Am Water Works Assn J 34:1035-41 Jl '42; Same. Water & Sewage 80:23-4+ Jl '42

WATER, Mine. See Mine water

WATER, Underground

Base-exchange and sulphate reduction in salty ground waters along Atlantic and Gulf coasts. M. D. Foster. bibliog Am Assn Pet Geologists Bul 26:838-51 My '42

Control of underground water; discussion of subdrainage practice. M. J. Adams. il diags Pub Works 72:23-4, 26+ N; 24-7+ D '41

Differential density of ground water as a factor in circulation, oxidation and ore deposition. J. S. Brown. Econ Geol 37:310-17 Je 42; Discussion. E. T. McKnight. 37:424-6 Ag '42; Discussion. D. J. Cederstrom. 37:524 S '42

Is there an electrical basis for water divining? abstract. J. F. Shipley. Engineering 153:113 F 6 '42

Methods for determining permeability of water-bearing materials, with special reference to discharging-well methods by L. K. Wenzel; with a section on Direct laboratory methods and Bibliography on permeability and laminar flow, by V. C. Fishel. diags U S Geol S Water-supply Pa 887:1-192, pl 1-6 bibliog(p20-50); pa 60c Supt. of doc. '42

Practical precautions in management of subterranean water sources; abstract. W. H. Maxwell. Am Water Works Assn J 34:1705-6 N '42

Proposed ground water supplementary supply for Rochester. Pub Works 73:34-5 Jl '42

Rapid installation of effective deep grounds; well-drilling technique adapted to reaching water table. L. N. Rebsamen. il Elec W 118:762-4 S 5 '42

Soil mechanics studies and reconstruction work; protecting pumping station from slides; Grapevine grade on U.S. 99 in California. V. J. Brown. il diags plan Roads & Sts 85:25-32 Mr '42

Subsurface survey provides water supply data; Springfield, Mass. Eng N 128:413 Mr 12 '42

WATER, Underground—*Continued*

Underground storage for floods assures army camp water supply. C. G. Beardslee. il Eng N 128:406-7 Mr 12 '42

Underground water supply complicates bridge pier construction, Peoria, Ill. W. H. Townsend. il diags map Eng N 128:495-7 Mr 26 '42

See also

Hot springs
Mine water
Mineral waters
Wells

Bibliography

Selected annotated bibliography on oil-field waters. L. C. Case and others. Am Assn Pet Geologists Bul 26:865-81 My '42

Cooling uses

Ground-water temperature on Long Island, New York, as affected by recharge of warm water. M. L. Brashears, jr. maps Econ Geol 36:811-28 D '41

Temperature

Ground-water temperature on Long Island, New York, as affected by recharge of warm water. M. L. Brashears, jr. maps Econ Geol 36:811-28 D '41

Connecticut

Cooperative ground-water investigation in Connecticut. J. G. Ferris. map N E Water Works Assn J 56:157-65 Je '42

Florida

Ground waters in southeastern Florida. W. P. Cross and S. K. Love. bibliog diag maps Am Water Works Assn J 34:490-504 Ap '42

Great Britain

Outlines of underground water supply in England and Wales; abstract. F. H. Edmunds. Am Water Works Assn J 34:951-4 Je '42

Kansas

Geology and ground-water resources of Morton county. T. G. McLaughlin. (Geological survey bul. 40) 126p bibliog(p90-1) Kansas univ, Lawrence '42

Geology and ground-water resources of Stanton county. B. F. Latta. 119p bibliog(p87-9) Kansas. Geological survey, Univ. of Kansas, Lawrence '41

Ground-water conditions in the vicinity of Lawrence, Kansas. S. W. Lohman. (Geological survey bul. 38, pt2) 64p bibliog(p53-4) Univ. of Kansas press, Lawrence '41

Long Island

Ground-water temperature on Long Island, New York, as affected by recharge of warm water. M. L. Brashears, jr. maps Econ Geol 36:811-28 D '41

Louisiana

Ground-water resources of Grant and LaSalle parishes. J. C. Maher. 95p bibliog(p89-91) Dept. of minerals, Louisiana geological survey, Baton Rouge '41

Massachusetts

Cooperative ground-water investigation in Massachusetts. M. L. Brashears, jr. map N E Water Works Assn J 56:152-6 Je '42

Middle Western states

Ground water, a vital national resource; Midwest problems. C. B. Burdick. diag Am Water Works Assn J 34:1606-15 N '42

Montana

Oil-field waters of Montana plains. J. G. Crawford. diags map Am Assn Pet Geologists Bul 26:1317-74 Ag '42

Nevada

Underground leakage from artesian wells in the Las Vegas area. P. Livingston. map U S Geol S Water-supply Pa 849-D:147-73, pl 12-17; pa 10c Supt. of doc. '41

Northeastern states

Water levels and artesian pressure in observation wells in the United States in 1940; pt. 1, Northeastern states. O. E. Meinzer, L. K. Wenzel and others. U S Geol S Water-supply Pa 906:1-226 '42

Ohio

Underground waters of Ohio. W. Stout and R. E. Lamborn. il map In Ohio State U Eng Exp Sta Circ 43:14-20 '42

Ontario

Deep wells as a source of water supply. A. T. Byram. il Water & Sewage 80:13-16 Je '42

Pacific coast

Ground water, a vital national resource; Pacific Coast problems. S. B. Morris. Am Water Works Assn J 34:1615-23 N '42

South Dakota

Hydrologic study of the White River valley. E. P. Rothrock. (Geological survey, Report of investigations 41) 32p Univ. of South Dakota, Vermillion '42

Southeastern states

Water levels and artesian pressure in observation wells in the United States in 1940; pt. 2, Southeastern states. O. E. Meinzer, L. K. Wenzel and others. U S Geol S Water-supply Pa 907:1-120; pa 20c Supt. of doc. '42

Southern states

Water levels and artesian pressure in observation wells in the United States in 1940; pt. 4, South-central states. O. E. Meinzer, L. K. Wenzel and others. U S Geol S Water-supply Pa 909:1-208; pa 25c Supt. of doc. '41

Texas

Geology and ground-water resources of the Balmorhea area, western Texas. W. N. White, H. S. Gale and S. S. Nye. maps U S Geol S Water-supply Pa 849-C:83-146; pa 15c Supt. of doc. '41

United States

Ground water, a vital national resource. O. E. Meinzer; C. B. Burdick; S. B. Morris. bibliog diag Am Water Works Assn J 34: 1595-1623 N '42

Virginia

Ground-water resources of the southeastern Virginia coastal plain. D. J. Cederstrom. (Circ. 1) 11p Geological survey, University, Va. '41

Wyoming

Capacity tests of ground-water sources at Laramie. R. D. Goodrich. Am Water Works Assn J 34:1629-34 N '42

Underground water resources of Horse Creek and Bear Creek valleys, southeastern Wyoming. W. L. Dockery. (Geol. survey bul. 30) 32p bibliog(p22) Univ. of Wyoming, Laramie '40

WATER birds

Sea-birds killed by contact with floating oil; abstract. R. T. Peterson. Science 96:sup9 Ag 21 '42

WATER caltrops. See Water chestnuts

WATER chestnuts

Control of water chestnut growths. M. Lieber. il Water Works & Sewerage 89:95-8 Mr '42

WATER closets

Analysis of sanitary facilities in the United States. J. M. DallaValle and R. H. Britten. Pub Health Rep 57:1604-13 O 23 '42

WATER collectors, Ranney. See Ranney water collectors

WATER companies

See also

Waterworks

Employees

See Waterworks—Employees

WATER companies—*Continued*

Management

Billing procedure for a group of small plants. W. H. Ogden. il Am Water Works Assn J 33:2201-6 D '41

WATER conduits

Apalachia project of the TVA; dam, conduit and penstock. C. H. Vivian. il map Comp Air M 47:6723-32 My '42

Entrainment of air in flowing water; closed conduit flow. A. A. Kalinske and J. M. Robertson. il diag Am Soc C E Proc 68:1141-53 S '42

Toby Creek pressure conduit. J. T. Starr. il map Civil Eng 12:99-101 F '42

See also

Aqueducts
Channels
Irrigation canals
Siphons
Water pipes

WATER conduits, Concrete

Irrigation conduit gunited on simple movable forms. C. R. Browning. il Civil Eng 12:272-3 My '42

Putting a river underground; pressure conduit to carry the Park river underground through Hartford, Conn. il diag map Eng N 128:180-3 Ja 29 '42

WATER conservation

Philadelphia cuts water waste. Eng N 129:292 Ag 27 '42

Promoting conservation of water by rate surcharges. F. C. Amsbary, jr. bibliog Am Water Works Assn J 34:1516-21; Discussion. J. J. Doland. 1521-2 O '42

Systematic program of water-meter testing and repair. R. W. Ballantine and F. Cunningham. il Water & Sewage 80:17-20, 51-2 Ag '42

Unusual events and their relation to federal water policies. W. G. Hoyt. il Am Soc C E Proc 68:211-24 F '42; Discussion. 68:619-24, 1199-1204 Ap, S '42

Water, a critical war material. A. E. Gorman. Water Works & Sewerage 89:431-2 O '42

Water conservation in New Hampshire. R. S. Holmgren. N E Water Works Assn J 56:1-7 Mr '42

See also

Water waste

WATER consumption

Comparison of estimated and actual consumption from the Birmingham industrial water supply system. A. C. Decker. Am Water Works Assn J 34:569-71 Ap '42

Meeting abnormal increased water consumption; Peterborough, Ont. J. Harrison. Water & Sewage 80:87-8 Ap '42

Studies on maximum momentary demand. A. P. Kuranz. Am Water Works Assn J 34:1538-44 O '42

See also Air conditioning equipment—Water requirements

WATER coolers, Electric. See Electric water coolers

WATER cooling. See Cooling of water

WATER cooling towers. See Cooling towers

WATER departments

Methods of handling street excavations. D. D. Gross. Am Water Works Assn J 34:1545-51 O '42

Water supply and sewerage under single management. H. L. Brigham. Water Works & Sewerage 89:373 S '42

WPA work for the St Paul water department; abstract. Pub Works 73:42 S '42

See also

Fire service (water supply)
Waterworks—Management

WATER distribution

Application of the Hardy Cross method to the analysis of a large distribution system; the city of Winnipeg. W. D. Hurst and N. S. Bubbis. bibliog maps Am Water Works Assn J 34:247-71 F '42; Correction. 34:463 Mr '42

Effects of earthquakes on water distribution systems. C. G. Hyde. N E Water Works Assn J 56:14-37 Mr '42; Abstract. Water Works & Sewerage 88:505-6 N '41

Growing pains of a small town water system. P. D. Wilson. Am Water Works Assn J 34:402-3 Mr '42

Is your distribution system ready for all wartime emergencies? C. Inglee. il diag Can Eng W & S 79:16-18+ N '41; [cont as] Water & Sewage 80:42-5 Ja '42

Meeting abnormal increased water consumption; Peterborough, Ont. J. Harrison. Water & Sewage 80:87-8 Ap '42

New water supply system of Muskegon Heights, Michigan. G. F. Liddle. il Pub Works 73:16-18 My '42

Operation of distribution systems under bombing conditions. R. Bennett. Water Works & Sewerage 89:261-5 Je '42

Ridding the distribution system of pumping station noises. S. M. Dunn. Am Water Works Assn J 34:221-8 F '42

Should chlorine residuals be carried in all distribution systems as a wartime protection measure? diag Water & Sewage 80:24+ Mr '42

Studies on maximum momentary demand. A. P. Kuranz. Am Water Works Assn J 34:1538-44 O '42

Tentative manual of safe practice in water distribution. Am Water Works Assn J 34:915-36 Je '42

U.S. water supply practice. A. E. Kelso. Am Water Works Assn J 34:1027-33 Jl '42

Water quality problems in small systems. L. H. Cook. Am Water Works Assn J 34:911-14 Je '42

Water service in wartime London. H. Berry. Am Water Works Assn J 34:1298-1327 S '42

Waterworks interconnection, the latest war development. Pub Util 29:644-5 My 7 '42

What size pipes; Bureau of standards report BMS79 on water distributing systems for buildings. Dom Eng 159:54+ F '42

See also

Aqueducts
Drinking water systems
Hydrants
Hydraulics
Pumping stations
Water districts
Water flow
Water hammer
Water pipes
Waterworks

Cost

Contract unit bid prices; list of projects showing how contractors bid in 1941-1942. Eng N 128:236-40 Ap 23 '42

El Monte pipeline, San Diego; unit costs. Eng N 129:122 Jl 16 '42

Filtration plant, transmission mains, Newport News, Va.; unit prices. Eng N 127:820 D 4 '41

Water mains, Michigan; unit prices. Eng N 128:508 Mr 26 '42

Water mains, Michigan; unit prices. Eng N 129:320 Ag 27 '42

Water supply lines, Seattle, Wash.; unit prices. Eng N 129:318 Ag 27 '42

Water tunnels, Chicago; unit prices. Eng N 128:938 Je 4 '42

Cross connections

Cross-connection control; committee report. bibliog Am Water Works Assn J 34:17-36 Ja '42

Cross-connections vs. interconnections. C. A. Holmquist. Water Works & Sewerage 88:578 D '41

Maximum number of cross-connections recommended to offset effects of aerial attack. il Water & Sewage 79:19+ D '41

Plumbing industry motion picture; synopsis of story to educate public on dangers of back-siphonage. Dom Eng 159:37+ Ap '42

Tables, calculations, etc.

Analyzing flow from multiple reservoirs by the Hardy Cross method. J. F. Muir. diags Eng N 128:408-9 Mr 12 '42

Charts solve multiple-reservoir problem. J. A. Novoro. Eng N 129:300-1 Ag 27 '42

WATER districts

Water charges to municipalities in the Boston metropolitan area by the Metropolitan district commission. K. R. Kennison. N E Water Works Assn J 55:522-49; Discussion. 550-60 D '41

Accounting

Accounting organization of the North Jersey water district. M. M. McLaughlin. Am Water Works Assn J 34:383-8; Discussion. J. E. Garratt. 388-9 Mr '42

WATER flow

Analyzing flow from multiple reservoirs by the Hardy Cross method. J. F. Muir. diags Eng N 128:408-9 Mr 12 '42

Application of the Hardy Cross method to the analysis of a large distribution system; the city of Winnipeg. W. D. Hurst and N. S. Bubbis. bibliog maps Am Water Works Assn J 34:247-71 F '42; Correction. 34:463 Mr '42

Charts solve multiple-reservoir problem. J. A. Novoro. Eng N 129:300-1 Ag 27 '42

Dam outlet works in a western state; model-prototype conformity. S. P. Wing. diags Am Soc C E Proc 68:1325-33 O '42

Development, operation and valuation of oil and gas properties; flow of homogeneous fluids; water in virgin oil and gas pays. P. J. Jones. bibliog Oil & Gas J 41:35-6+ Je 18 '42

Entrainment of air in flowing water; closed conduit flow. A. A. Kalinske and J. M. Robertson. il diag Am Soc C E Proc 68: 1141-53 S '42

Entrainment of air in flowing water; symposium. L. S. Hall and others. il diag Am Soc C E Proc 68:1099-1153 S '42

Equation of motion for the steady mean flow of water in open channels. G. H. Keulegan. bibliog diags J Research Nat Bur Stand 29:97-111 Jl '42

Flood hydrographs. G. G. Commons. Civil Eng 12:571-2 O '42

Flooding velocities in packed towers; comparison of determination by visual and pressure drop methods. B. R. Sarchet. bibliog il diag Am Inst Chem Eng Trans 38: 283-301; Discussion. 301-4 Ap '42

Flow characteristics of pipe lines, with special reference to the new pressure aqueduct of the metropolitan water district. W. F. Covil. Boston Soc C E J 29:22-37 Ja '42

Flow of gas-oil-water mixtures through media of uniform permeability. P. J. Jones. diags Oil & Gas J 41:25 Jl 9 '42

Flow of oil-water mixtures through media of uniform permeability. P. J. Jones. Oil & Gas J 41:197-8 Je 25 '42

Flow of water through pipes; equations can be applied to problems in operation of lease, gasoline plant, refinery and pipeline systems. R. W. Machen. Oil & Gas J 40:39-40 Ap 9 '42

Friction heads due to water flow in copper, brass and other smooth pipes. F. E. Giesecke. Heating-Piping 14:680-5 N '42

Heat transfer and pressure drop for a fluid flowing in the viscous region through a vertical pipe. R. C. Martinelli and others. bibliog diags Am Inst Chem Eng Trans 38:493-530 Je '42

Limiting flow in liquid-liquid extraction columns; naphtha-water and methyl isobutylketone water systems. F. H. Blanding and J. C. Elgin. bibliog diags Am Inst Chem Eng Trans 38:305-35; Discussion, 335-8 Ap '42

Methods for determining permeability of water-bearing materials, with special reference to discharging-well methods. L. K. Wenzel. diags U S Geol S Water-supply Pa 887:1-192, pl 1-6; pa 60c Supt. of doc. '42

Performance of drip-point grid tower packings. M. C. Molstad and others. il diag Am Inst Chem Eng Trans 38:387-434 bibliog(p409, 434) Ap '42

Resistance of valves and fittings to flow of water. chart Water Works & Sewerage 89:sup46-7 Je '42

Transfer processes in annuli. J. H. Wiegand and E. M. Baker. bibliog Am Inst Chem Eng Trans 38:569-88 Je '42; Discussion. 38: 588-92, 719-22 Je, Ag '42

Trends in coefficients of large pressure pipes. C. H. Capen. il diags map Am Water Works Assn J 33:1-83 bibliog(50 titles, p81-3) Ja '41; Discussion. bibliog 34:523-43 Ap '42

Underflow studies at Lake Issaqueena. J. W. Johnson. il Civil Eng 12:513-16 S '42

Viscosity and surface tension effects on V-notch weir coefficients. A. T. Lenz. bibliog il diags Am Soc C E Proc 68:351-74 Mr '42

Water: flow, friction, measurement and power. diags Water Works & Sewerage 89: sup19-28 Je '42

See also

Hydraulics
Intakes
Turbines
Venturi flume
Water meters
Weirs (measuring)

Bibliography

Bibliography on permeability and laminar flow. V. C. Fishel. In U S Geol S Water-supply Pa 887:20-50 '42

WATER glass. See Sodium silicates

WATER hammer

Checking water hammer; abstract. A. W. Moseley. Water Works & Sewerage 89:sup 59 Je '42

Eliminating surge troubles on pump discharge lines. D. M. Radcliffe. diags Water Works & Sewerage 89:sup55-6 Je '42

Ridding the distribution system of pumping station noises. S. M. Dunn. Am Water Works Assn J 34:221-8 F '42

Water hammer action blamed for steam piping failure. il Locomotive 44:69-70 Jl '42

Water hammer correctives. R. Bennett. il diags Water Works & Sewerage 89:sup92-7 Je '42

WATER heaters

See also

Electric water heaters
Gas water heaters
Hot water supply
Steam water heaters

WATER heating

See also

Hot water supply

WATER in air conditioning. See Air conditioning equipment—Water requirements; Water, Underground—Cooling uses

WATER in the body

True drys; animals that gain all needed water chemically; abstract. E. P. Walker. Sci Am 166:79-80 F '42

WATER laws and legislation

Navigable waters as a legal fiction. H. Kelso. bibliog J Land & Pub Util Econ 17:394-405 N '41

See also

Water rights

WATER level indicators

Designs cold weather water level gage for storage dam of the Wisconsin Michigan power company. il diag Elec W 117:1521+ My 2 '42

High-water gaging. F. J. Doran. Civil Eng 12:103-4 F '42

Remote water-level indicator for boilers. il diag Engineering 153:7-8 Ja 2 '42; Engineer 172:460 D 26 '41

River stages sent, recorded by radio. L. Rinker. il Elec W 117:1378 Ap 18 '42

WATER measurement

Construction of a 9-ft Venturi tube. il diags Engineering 153:221-2, 230 Mr 20 '42

Practical hydraulics; weirs and gages. P. S. Wilson. diags Water Works & Sewerage 89:sup29-32 Je '42

Water: flow, friction, measurement and power. diags Water Works & Sewerage 89: sup19-28 Je '42

WATER measurement—*Continued*

Water volume in partly filled tunnel. L. J. Sack. diags Eng N 129:33 Jl 2 '42

See also

Flow meters
Stream measurement
Water flow
Water meters
Weirs (measuring)

WATER meters

Empire Victory meter. il Pub Works 73:79-80 Je '42

Leesburg shows way to meet water waste problem. Water Works & Sewerage 88:577 D '41

Metering flow; quantity meters. diags Power 86:100-2 F '42

Metering: practical methods of procedure. E. H. Ruehl. Water Works & Sewerage 89: sup119-20 Je '42

Pittsburgh-National announces the new Empire Victory meter. il Water Works & Sewerage 89:insert 121 Je '42

Plastics for water meter disks. J. D. Piper. il Mod Plastics 19:68-71 Ap '42

Propeller-type meters. J. M. Montgomery. il diag Water Works & Sewerage 89:sup44-5 Je '42

Some experiences with water meters. H. Addison. diags Engineer 173:390-1+ My 8 '42

Some pertinent facts on residential meters as they pertain to revenue return. L. Trentlage. Water Works & Sewerage 88: 545-8 D '41

Water meters that conserve on critical materials. il Water & Sewage 80:36 Ag '42

Repair

Comprehensive survey of large meters in Nashville. R. L. Lawrence, jr. and A. R. Sharp. Am Water Works Assn J 34:121-9 Ja '42

Meter maintenance practice. A. P. Kuranz. Am Water Works Assn J 34:117-20 Ja '42

Repairing for defense. L. R. Howson. Am Water Works Assn J 34:794-6 Je '42

Systematic program of water-meter testing and repair. R. W. Ballantine and F. Cunningham. il Water & Sewage 80:17-20, 51-2 Ag '42

Specifications

American water works association tentative specifications for cold water meters; displacement type. Am Water Works Assn J 33:sup1-10 D '41

Testing

Comprehensive survey of large meters in Nashville. R. L. Lawrence, jr. and A. R. Sharp. Am Water Works Assn J 34:121-6 Ja '42

Maintenance of large meters in the field. D. R. Taylor. il Water Works & Sewerage 89:sup128-30 Je '42

Streamlining the meter test. D. R. Taylor. diags Water Works & Sewerage 88:536-7 N '41

Systematic program of water-meter testing and repair. R. W. Ballantine and F. Cunningham. il Water & Sewage 80:17-20, 51-2 Ag '42

Testing small meters in San Francisco. G. W. Pracy. bibliog Am Water Works Assn J 34:712-18 My '42

Water meter testing on a mass production basis; Los Angeles Department of water and power. il Eng N 129:375 S 10 '42

WATER of hydration

Analytical procedures employing Karl Fischer reagent; the determination of water of hydration in salts. W. M. D. Bryant and others. bibliog Am Chem Soc J 63:2924-7 N '41

WATER pipes

Air release for pipe line. C. Labbe. diag Eng & Min J 143:119 Ag '42

Entrainment of air in flowing water; closed conduit flow. A. A. Kalinske and J. M. Robertson. il diag Am Soc C E Proc 68: 1141-53 S '42

Fibers used in water practice; abstract. J. A. de Graaf. Am Water Works Assn J 33: 2061-4 N '41

Hanging a water main under a bridge; mobile pipe-lifting derrick. H. M. Neighbour. il Pub Works 73:18 Jl '42

Laying water mains in Milwaukee. H. Ihling. il Am Water Works Assn J 34:595-600 Ap '42

Methods of handling street excavations. D. D. Gross. Am Water Works Assn J 34: 1545-51 O '42

Plastics invade the waterworks field; Oshawa firm installs equipment to make tubing and predicts plastic service pipe and water mains. il Water & Sewage 80:22-3+ S '42

Plumbing systems for defense and low-cost housing; water supply piping; with time-saver standards. diags Arch Rec 90:91-2 N '41

See also

Aqueducts
Culverts
Hot water heating
Hot water supply
Pipe fittings
Pipe joints
Pipe laying
Pipes
Plumbing
Siphons
Valves, Hydraulic
Water distribution
Water flow
Waterworks

Cleaning

Cleaning a large-size pipe line in place. W. H. Mead. il diags Civil Eng 11:728-30 D '41

Cleaning over three miles of main in six hours; Petersburg, Va. C. W. Davis. il Pub Works 73:17 Ap '42

Cleaning, sterilizing, and incorporating the Amoskeag mills water system into the Manchester, N.H. city system. P. A. Shaw. N E Water Works Assn J 56:212-20 Je '42

Is your distribution system ready for all wartime emergencies? C. Inglee. il diag Can Eng W & S 79:16-18+ N '41; [cont as] Water & Sewage 80:42-5 Ja '42

Repairing for defense. L. R. Howson. Am Water Works Assn J 34:796-7 Je '42

Corrosion

Corrosion of iron pipes; abstract. A. H. Thomas. Science 96:sup10+ O 2 '42

Corrosion study of bolting materials and coatings. O. A. Halvorson. Am Water Works Assn J 34:76-84 Ja '42

Experiments with Tube-Loy pipe. R. S. Weston. N E Water Works Assn J 56:174-83 Je '42

Microbiological deposits and bacteriological corrosion. A. E. Griffin. bibliog il Paper Tr J 115:32-7 S 24 '42

Red water, causes and elimination. I. L. Newell. bibliog N E Water Works Assn J 56:166-73 Je '42; Abstract. Water Works & Sewerage 88:555 D '41

Role of bacteria in corrosion; chlorination in the control of interior corrosion of pipe lines. A. H. Thomas. bibliog il Water Works & Sewerage 89:367-72 S '42; Abstract. Eng N 129:371 S 10 '42

Role of bacteria in corrosion of iron and steel; abstract. A. H. Thomas. Chem & Met Eng 49:176-7 F '42

Service shooting; wherein a friend is made when a corroded service is saved. L. Trentlage. il Water Works & Sewerage 89: 248-50 Je '42

See also

Water purification—
Corrosion control

Deposits

Chlorine-ammonia treatment of water; reducing pipe line friction losses with chloramine treatment. M. L. Crist. Am Water Works Assn J 33:2103-7 D '41

Electric grounding

Progress report, American research committee on grounding; effect on water and piping. Am Water Works Assn J 34:69-75 Ja '42; Abstract. Edison Elec Inst Bul 9: 462+ N '41

Progress report of American research committee on grounding on water pipes. Edison Elec Inst Bul 10:311-12 Ag '42

WATER pipes—*Continued*

Failures

Waterworks maintenance in Reading, Mass. Pub Works 73:33 Jl '42

Freezing

Thawing of frozen pipes by electricity; abstract. L. A. Ferney. Am Water Works Assn J 34:1113-14 Jl '42

Leakage

New Philadelphia story; water waste survey has saved Philadelphia 13,000,000 gallons daily. M. J. McLaughlin. il Water Works & Sewerage 89:245-7 Je '42

Water waste surveys and leakage correction. E. K. Wilson. il Water Works & Sewerage 89:sup98-100 Je '42

Lining

Flow tests on thirty-inch steel pipe, lined with bitumastic enamel in 1932. J. D. Carpenter and G. M. Roads, jr. N E Water Works Assn J 56:8-13 Mr '42

Lining cast-iron pipe in place, Waterbury, Conn. L. H. Seton. il Eng N 129:372-3 S 10 '42

Protection

Asphalt protective coating for steel water pipes. A. H. Benedict. il Eng N 128:327-9 F 26 '42

Pipe protection with a thin enamel coat; San Francisco water department. J. J. Crowley. il Eng N 129:28-30 Jl 2 '42

Recent developments in the use of hexametaphosphate in water treatment. O. Rice. diag N E Water Works Assn J 56:84-98 Mr '42; Abstract. Water Works & Sewerage 88:504 N '41; Discussion. E. W. Moore. N E Water Works Assn J 56:99-101 Mr '42

Repair

Air compressors speed water department maintenance. Eng N 129:653 N 5 '42

Dresser repair sleeve for pipe breaks. il Water & Sewage 79:34 D '41

Emergency repair of distribution systems. W. V. Weir. Am Water Works Assn J 34:1205-10 Ag '42; Same. Water Works & Sewerage 89:349-51 Ag '42; Same, with diags. Water & Sewage 80:24-5+ Ag '42; Discussion. B. W. Cullen. Am Water Works Assn J 34:1210-13 Ag '42

Organization and training of water main emergency repair crews and auxiliary personnel assigned to emergency water service duties. Am Water Works Assn J 34:803-22 Je '42

Repair sleeve for water pipes. diags Engineering 154:107 Ag 7 '42

Repairing water mains in Milwaukee. R. H. Klebenow. Am Water Works Assn J 34:272-4 F '42

Service pipes

Service shooting; wherein a friend is made when a corroded service is saved. L. Trentlage. il Water Works & Sewerage 89:248-50 Je '42

Substitute and alternate materials for service pipe. E. E. Smith. Am Water Works Assn J 34:1042-3 Jl '42; Same. il Water Works & Sewerage 89:300 Jl '42; Discussion. H. E. Jordan. Am Water Works Assn J 34:1043-4 Jl '42

Sterilization

Operation of distribution systems under bombing conditions. R. Bennett. Water Works & Sewerage 89:261-2 Je '42

Sterilization of water mains. diag chart Water & Sewage 80:27-8, 50-2 O '42

Water service in wartime London; sterilization of repaired water mains. H. Berry. Am Water Works Assn J 34:1318-23 S '42

Tables, calculations, etc.

Application of the Hardy Cross method to the analysis of a large distribution system; the city of Winnipeg. W. D. Hurst and N. S. Bubbis. bibliog maps Am Water Works Assn J 34:247-71 F '42; Correction. 34:463 Mr '42

Determining the condition of mains; how to watch your C line for friction losses. D. R. Taylor. Water Works & Sewerage 89:sup67-9 Je '42

Flow characteristics of pipe lines, with special reference to the new pressure aqueduct of the metropolitan water district. W. F. Covil. Boston Soc C E J 29:22-37 Ja '42

Friction heads due to water flow in copper, brass and other smooth pipes. F. E. Giesecke. Heating-Piping 14:680-5 N '42

Resistance of valves and fittings to flow of water. chart Water Works & Sewerage 89:sup46-7 Je '42

16 steps in sizing piping for cold and hot water supply. charts Heat & Ven 39:54-61 F '42

Trends in coefficients of large pressure pipes. C. H. Capen. il diags map Am Water Works Assn J 33:1-83 bibliog(50 titles, p81-3) Ja '41; Discussion. bibliog 34:523-43 Ap '42

Water: flow, friction, measurement and power. diags Water Works & Sewerage 89:sup19-28 Je '42

What size pipes; Bureau of standards report BMS79 on water distributing systems for buildings. Dom Eng 159:54+ F '42

WATER pipes, Brass

Friction heads due to water flow in copper, brass and other smooth pipes. F. E. Giesecke. Heating-Piping 14:680-5 N '42

Relation of copper and brass pipe to health; abstract. F. E. Hale. Am Water Works Assn J 34:1285-7 Ag '42

WATER pipes, Concrete

New concrete pipe line doubles water supply. il Concrete 50:5 Ap '42

Placing heavy concrete pipe sections into difficult position. il Concrete 50:5 Ja '42

Steel culvert substitutes; specifications for non-reinforced concrete pipe. Eng N 128:559 Ap 9 '42

WATER pipes, Copper

Friction heads due to water flow in copper, brass and other smooth pipes. F. E. Giesecke. Heating-Piping 14:680-5 N '42

Relation of copper and brass pipe to health; abstract. F. E. Hale. Am Water Works Assn J 34:1285-7 Ag '42

WATER pipes, Lead

Effect of sodium hexametaphosphate on the solution of lead. E. W. Moore and F. E. Smith. diag Am Water Works Assn J 34:1415-24 S '42

Installing lead under the new emergency plumbing standards. diags Am Bld 64:114-15 Ap '42

Study of solubility of two lead salts in dilute solutions with special reference to the lead hazard in drinking water. C. C. Ruchhoft and J. F. Kachmar. Am Water Works Assn J 34:85-93 Ja '42

Testing

Experiments with Tube-Loy pipe. R. S. Weston. N E Water Works Assn J 56:174-83 Je '42

WATER pipes, Steel

Asphalt protective coating for steel water pipes. A. H. Benedict. il Eng N 128:327-9 F 26 '42

Fabrication and installation practices in building the Shasta penstocks. H. W Young. il diags Steel 111:72-4+ Ag 10 '42

Steel siphon rehabilitation on the Los Angeles aqueduct. W. W. Hurlbut, B. S. Grant and H. A. Price. il diags map Am Water Works Assn J 34:1635-66 N '42

Manufacture

Welding and testing Shasta penstocks. G. L. Yetter. il Eng N 128:542-5 Ap 9 '42

Testing

Flow tests on thirty-inch steel pipe, lined with bitumastic enamel in 1932. J. D. Carpenter and G. M. Roads, jr. N E Water Works Assn J 56:8-13 Mr '42

WATER pipes, Wood

Armco designs wood culvert to conserve critical material. il Eng N 128:540 Ap 9 '42; Roads & Sts 85:88 Ap '42

WATER pollution

Analysis of stream pollution and stream standards; abstract and discussion. G. J. Schroepfer. Water Works & Sewerage 89: 357-8 Ag '42

Catalytic oxidation of sulfite waste liquor by atmospheric oxygen. I. A. Pearl and H. K. Benson. bibliog Ind & Eng Chem 34:436-8 Ap '42

Chemical poisoning of municipal water supplies; abstract. H. M. Taylor. Pub Works 73:38 My '42

Chlorine consumed tests for pollution. H. A. Faber. Am Water Works Assn J 34:746-8 My '42

Control of pollution from sewage effluents. N. J. Howard. il Water & Sewage 80:17-18+ O '42

Control of water chestnut growths. M. Lieber. il Water Works & Sewerage 89:95-8 Mr '42

Controlling pollution of oyster-growing waters of Chesapeake bay. G. L. Hall. il maps Civil Eng 11:715-17 D '41

Disease outbreaks from water, milk, and other foods in 1939. A. W. Fuchs. Pub Health Rep 56:2277-84 N 28 '41

Effects of distillery wastes and waters on the microscopic flora and fauna of a small creek. J. B. Lackey. bibliog Pub Health Rep 57:253-60 F 20 '42

How to handle the algae problem. A. E. Berry. il Water & Sewage 80:17-20+ S '42

Legal responsibility of Minnesota municipalities for polluted water. O. C. Peterson. Am Water Works Assn J 34:37-52 Ja '42

Occurrence and recovery of the virus of infantile paralysis from water; abstract. J. R. Paul. Water Works & Sewerage 88: 509-10 N '41

Operation of water treatment plants; second edition, revised; how impure water may cause disease. W. A. Hardenbergh and others. il Pub Works 73:18-19 Je '42

Paper waste causes slime growths. Eng N 129:98 Jl 16 '42

Pollution, a perennial headache. R. M. Searls. Min Cong J 28:30-2+ Mr '42

Pollution control in the Potomac; abstract. F. W. Kittrell. Am Water Works Assn J 34: 1577 O '42

Protection of water supplies during emergencies. W. L. Mallmann. Water Works & Sewerage 89:361-2 Ag '42

Relation of copper and brass pipe to health; abstract. F. E. Hale. Am Water Works Assn J 34:1285-7 Ag '42

Relation of disposal of sewage and water purity as exemplified by Toronto's problem. N. J. Howard. plan Water & Sewage 80: 21, 126-8 Je '42

Rivers speak. 44 numb l bibliog(l 43-4) Nat. resources planning board, Region one, Boston '42

Safe water and typhoid toll; campaign against water-borne typhoid by Engineering news. M. N. Baker. Eng N 128:551 Ap 9 '42

Salt water intrusion at Miami. A. B. De Wolf. il Pub Works 73:22-3 Mr '42

Shore pollution reduction at San Francisco; abstract. C. G. Hyde. Water Works & Sewerage 89:441-2 O '42

Significance of plankton in relation to the sanitary condition of streams; abstract. J. B. Lackey. Am Water Works Assn J 34:1699 N '42

Studies of the effects of industrial pollution in the lower Patapsco River area; abstract. R. A. Olson, H. F. Brust and W. L. Tressler. Am Water Works Assn J 34:1576-7 O '42

Study of the pollution and natural purification of the Scioto river. R. W. Kehr and others. (Pub. health bul. 276) 153p bibliog(p144-6) U.S. Public health service, Washington; pa 20c Supt. of doc. '41

Toxic contaminants of drinking water; abstract. L. T. Fairhall. Am Water Works Assn J 34:1284 Ag '42

Toxicity of sodium pentachlorophenate and pentachlorophenol to fish. C. J. Goodnight. bibliog Ind & Eng Chem 34:868-72 Jl '42

War time possibilities of water supply contamination; abstract. H. A. Faber. Water Works & Sewerage 89:307 Jl '42

Water service in wartime London. H. Berry. Am Water Works Assn J 34:1302-9 S '42

See also

Algae
Filters and filtration
Refuse disposal
Sewage disposal
Trade waste
Water—Bacteriology
Water distribution—Cross connections
Water purification
Water supply

WATER power

See also

Dams
Hydraulic engineering
Hydraulic machinery
Hydroelectric plants
Turbines

Canada

Undeveloped water power; possibilities in north-west Canada. Elec R (Lond) 131: 327 S 11 '42

WATER purification

A.W.W.A.'s wartime conference; Water purification division sessions. Water Works & Sewerage 89:399-403 S '42

Application of hydrogen ion concentration to water treatment; abstract. G. W. Bond. Am Water Works Assn J 34:774-5 My '42

Best of water supplies presents problems; pumping plant at Muscogee. H. M. Rogers. diags plan Rayon 22:740-2 D '41

Carbon blackout for preventing algae growths in reservoirs. H. O. Hartung and V. C. Lischer. il Water & Sewage 80:20+ My '42

Coal for water purification; abstract. D. Bogard. Coal Age 47:159-60 O '42

Consumption of chemicals by municipal waterworks in Canada; statistical data, 1941. il Water & Sewage 80:23-4, 46, 48-9 O '42

Copper sulfate dispersion and settlement in reservoirs. H. C. Medbery. Am Water Works Assn J 34:735-6 My '42

Copper sulphate for aquatic nuisances; toxic effects upon fish. L. F. Warrick, F. J. McKee and A. E. Bartsch. Pub Works 73: 21+ S '42

Distilled water obtained by process using no heat. il Sci Am 166:149 Mr '42

El Paso expands utilities for army use. il plan Eng N 129:166-9 Jl 30 '42; Abstract. Water & Sewage 80:25-6 O '42

Emergency iodine sterilization; abstract and discussion. J. W. Krasauskas, C. J. Lauter and G. H. Harrington. Water Works & Sewerage 89:307-8 Jl '42

Enslow continuous stability indicator. R. S. Phillips. il diags Water Works & Sewerage 89:99-101 Mr '42

Experience with St Paul softening plant. L. N. Thompson. il plan Civil Eng 12:603-5 N '42

Experiments on the removal of arsenic, vanadium and fluorine from water; abstract. R. A. Trelles and J. M. Bach. Am Water Works Assn J 34:641-2 Ap '42

Identification of micro-organisms in relation to water purification. J. B. Lackey. bibliog diags Am Water Works Assn J 34:1559-68 O '42

Latest progress in industrial water treatment; abstract. A. M. Buswell. Min & Met 23:553-4 N '42

Maintenance of control equipment in water purification works. A. A. Wood. Am Water Works Assn J 34:237-42; Discussion. R. A. McQuade. 242-6 F '42

Methods of water treatment and laboratory control; data on relation of water supply to occurrence of intestinal diseases. Am Water Works Assn J 33:2051-60 N '41

Micro-straining, a new development in water purification. P. L. Boucher. il Engineer 173: 420-2, 445-7 My 22-29 '42

Operation of water-treatment plants. W. A. Hardenbergh. 307p $3.10 International textbook co, Scranton, Pa. '40

Operation of water treatment plants; second edition, revised. W. A. Hardenbergh and others. il diags Pub Works 73:17-64 Je '42

WATER purification—*Continued*

Organic fouling of cooling water; treatment with sodium pentachlorphenate; abstract. F. J. Matthews. Chem Age (Lond) 45:258 N 15 '41

Purification and softening at Minneapolis. J. A. Jensen. il Civil Eng 12:605-6 N '42

Reduction of mineral content in water with organic zeolites. R. F. Goudey. bibliog il Am Soc C E Proc 68:225-36; Discussion. 265-8, 625-6, 841-4 F, Ap-My '42

Round-up of the water conditioning situation under war conditions. il diag Rayon 23:425-8 Jl '42

Selected papers from the fifteenth annual conference on water purification, in joint session with the West Virginia section, American water works association, Oct. 24-26, 1940, Huntington, W.Va. J. B. Harrington and H. W. Speiden, eds. (Tech. bul. 21) 120p Engineering experiment station, West Virginia univ, Morgantown '41

Shanghai waterworks co.'s annual report. il Water & Sewage 80:25-6 Mr '42

South District filtration project, Chicago; chemical handling facilities; instruments for operating control. diags Eng N 128:1014-18 Je 18 '42

Supply and treatment problems in South Dakota. E. R. Mathews. Am Water Works Assn J 34:749-55 My '42

Treatment of water for domestic and industrial requirements. A. Parker. Engineering 154:37-8, 44-5, 77-8 Jl 10-24 '42

Water for re-use; process perfected for army cleanses laundry waste. Business Week p42+ S 19 '42

Water purification for plant operators. G. D. Norcom and K. W. Brown. 180p bibliog (p 173) $2.50 McGraw-Hill '42; Review by J. R. Baylis. Water Works & Sewerage 89:128 Mr '42

Water quality problems in small systems. L. H. Cook. Am Water Works Assn J 34:911-14 Je '42

Water treatment at Chicago; largest water-treatment plant in the world. flow diag il Eng N 128:1020-3 Je 18 '42

Water treatment developments. W. R. Gibson. Paper Tr J 114:53-6 My 14 '42

Water treatment processes as used in the textile industry. J. T. Hendry. Soc Dyers & Col J 58:153-5 Ag '42

See also

Feed water purification
Filters and filtration
Filtration plants
Reservoirs—Protection
Settling basins
Water—Deactivation and deaeration
Water softening
Water supply for factories
Water supply for textile mills

Chlorination

A.W.W.A.'s wartime conference; Water purification division sessions; chlorination and water quality. Water Works & .Sewerage 89:400-2 S '42

Bacteriologist looks at chlorine. S. M. Costigan. Am Water Works Assn J 34:353-61 bibliog(39 titles, p359-61); Discussion. J. W. Krasauskas. 361-4 Mr '42

Chlorination equipment for emergency use. H. A. Faber. bibliog il Water Works & Sewerage 89:sup163-5 Je '42; Same cond. Can Eng W & S 79:21-2+ N '41

Chlorine-ammonia treatment of water; committee report. Am Water Works Assn J 33:2079-123 bibliog(p2120-3) D '41

Chlorine and chlorination developments of the month. Water Works & Sewerage 89:81-2 F '42

Chlorine consumed tests for pollution. H. A. Faber. Am Water Works Assn J 34:746-8 My '42

Developments in super-chlorination practices; abstract. A. E. Griffin. Water Works & Sewerage 89:32-3 Ja '42

Disinfection methods for deep wells. E. C. Jensen. diags Pub Works 73:21+ Ap '42

Effect of break-point chlorination on filter runs and algae growths; some experiences at Fredericksburg, Va. A. E. Wilson, jr. Water Works & Sewerage 89:129-30 Mr '42

Emergency disinfection of public water supplies and mains; abstract and discussion. H. W. Streeter. Water Works & Sewerage 89:306-7 Jl '42

Future of water chlorination. H. A. Faber. diags Water & Sewage 80:76, 79-80+ Ap '42; Abstract. Water Works & Sewerage 89:256-7 Je '42

History of taste and odor control. W. W. Hassler. Am Water Works Assn J 33:2124-52 bibliog(182 titles, p2144-52) D '41

Home-made chlorination apparatus for emergency use. il N E Water Works Assn J 55:622-5 D '41

Microbiological deposits and bacteriological corrosion. A. E. Griffin. bibliog il Paper Tr J 115:32-7 S 24 '42

Mobile chlorinator for emergency use. il Engineering 153:5 Ja 2 '42

New method of determining residual chlorine. H. C. Marks and J. R. Glass. bibliog diag Am Water Works Assn J 34:1227-40 Ag '42

Operation of distribution systems under bombing conditions. R. Bennett. Water Works & Sewerage 89:261-2 Je '42

Operation of water treatment plants; second edition, revised; disinfection of water. W. A. Hardenbergh and others. il diags Pub Works 73:46-56 Je '42

Portable emergency chlorinator. A. A. Bailey. il diag Water Works & Sewerage 89:347-8 Ag '42

Practical application of ammonia-induced break-point chlorination. C. R. Harvill, J. H. Morgan and H. L. Mauzy. flow sheet Am Water Works Assn J 34:275-84; Discussion. C. K. Calvert. 285-7 F '42

Role of bacteria in corrosion; chlorination in the control of interior corrosion of pipe lines. A. H. Thomas. bibliog il Water Works & Sewerage 89:367-72 S '42

Should chlorine residuals be carried in all distribution systems as a wartime protection measure? diag Water & Sewage 80:24+ Mr '42

Status of super-chlorination and dechlorination; abstract. A. E. Griffin. Water Works & Sewerage 88:493-4 N '41

Time factor in chlorine and chloramine disinfection of contaminated swimming pool waters; abstract. E. T. Chanlett and H. B. Gotass. Water Works & Sewerage 88:511 N '41

Wallace and Tiernan mobile water-sterilising unit. il Engineering 153:246 Mr 27 '42

Water service in wartime London. H. Berry. Am Water Works Assn J 34:1298-1327 S '42

Wilson portable hypochlorinator. il Water Works & Sewerage 89:sup77-8 Mr '42

Coagulation

Cash mixer for coagulating water. il Water Works & Sewerage 89:281 Je '42

Chemical treatment plans for the South district filtration plant, Chicago. J. R. Baylis. Am Water Works Assn J 34:1397-1404 S '42

Cold water coagulation experiences at Durham, N.C.; abstract. J. R. Malone. Water Works & Sewerage 89:44 Ja '42

Experimental treatment of Rancocas Creek water for Fort Dix, N.J. R. D. Mitchell. N E Water Works Assn J 56:76-83 Mr '42

Handbook of feedwater treatment; coagulation. diag Power 85:868 D '41

Operation of water treatment plants; second edition, revised; how chemicals are used in coagulation and settling. W. A. Hardenbergh and others. il Pub Works 73:30-6 Je '42

Properties of the floc in water purifications with bentonite. E. M. Beavers and F. K. Cameron. bibliog diag J Phys Chem 46:93-8 Ja '42

Review of Ferrisul applications in water and sewage treatment; abstract. F. K. Burr and J. J. McCarthy. Can Chem & Process Ind 26:618 O '42

South District filtration project, Chicago; water-conditioning processes; development of new sodium silicate process. il Eng N 128:1008-10 Je 18 '42

WATER purification—Coagulation—*Continued*

Studies on water treatment by coagulation; abstract. E. Orosco, E. F. Rocha and E. G. de Andrade. Am Water Works Assn J 34:946-7 Je '42

Water conditioning by flocculation. S. L. Tolman. bibliog diag Am Water Works Assn J 34:404-11 Mr '42

Water purification and the war; effect on chemicals. N. J. Howard. Water & Sewage 80:16+ My '42

Color removal

Solving a green water trouble; abstract. Pub Works 73:40 S '42

Use of ozone for water purification. A. W. Consoer. il Civil Eng 11:701-2 D '41

Corrosion control

A.W.W.A.'s wartime conference; Water purification division sessions; corrective treatment methods. Water Works & Sewerage 89:402-3 S '42

Economics of water conditioning for scale and corrosion control; with cost data. R. C. Rohrdanz. Pet Eng 13:135-6, 138 My '42

Experiences with calgon treatment at Bristol, Conn. I. L. Newell. Water Works & Sewerage 89:269-70 Je '42

Experiments with Tube-Loy pipe. R. S. Weston. N E Water Works Assn J 56:174-83 Je '42

Micromet for scale prevention and corrosion control in small water systems; glassy sodium phosphate. Water Works & Sewerage 89:insert 123 Je '42

Operation of water treatment plants; second edition, revised; corrosion and its prevention. W. A. Hardenbergh and others. Pub Works 73:36+ Je '42

Recent developments in the use of hexametaphosphate in water treatment. O. Rice. diag N E Water Works Assn J 56:84-98; Discussion. E. W. Moore. 99-101 Mr '42

Red water, causes and elimination. I. L. Newell. bibliog N E Water Works Assn J 56:166-73 Je '42

Scale and corrosion control in water and brine systems. J. A. Holmes. il Refrig Eng 43:145-8+ Mr '42

Special slide rule for calcium carbonate equilibrium problems in corrosion control of water supplies. A. A. Hirsch. bibliog Ind & Eng Chem Anal ed 14:178-80 F 15 '42

Stabilization of lime-softened water with carbon dioxide gas. C. P. Hoover. bibliog il diag Am Water Works Assn J 34:1425-45; Discussion. 1445-54 S '42

Stop corrosion attack; carbon dioxide in water may cause trouble. il Power 86:116-17 F '42

Water problems in small power plants. E. P. Partridge and A. L. Soderberg. bibliog il Blast F & Steel Pl 30:666-70 Je '42

Filtration

See Filters and filtration

Iron removal

Iron removal from water by carbonaceous ion exchangers; abstract. F. K. Lindsay. Chem & Met Eng 49:216 S '42

Iron removal in western Pennsylvania. L. S. Morgan and C. H. Young. Am Water Works Assn J 33:1929-44 N '41

Iron removal; method of interest in connection with small systems. H. E. Lordley. il diag Water Works & Sewerage 89:28-30 Ja '42

Some water treatment experiences at Sanford, Maine. H. L. Clark. il Water Works & Sewerage 88:500-2 N '41; Same. N E Water Works Assn J 56:59-64 Mr '42

Lime treatment

See also
Water softening

Manganese removal

Manganese in deep reservoirs. E. S. Hopkins and G. B. McCall. bibliog il Ind & Eng Chem 33:1491-5 D '41

Manganese removal from water. Eng N 127:895 D 18 '41

Odor removal

See Water purification—Taste and odor removal

Ozone treatment

Combined water purifier and fire-fighting apparatus; Sterozone Hydrovan. il Water & Sewage 80:36 S '42

Fidgety atoms purify water. R. G. Skerrett. il diag Sci Am 166:136-7 Mr '42

Mobile ozone unit for water purification. il Eng N 127:807 D 4 '41; Water Works & Sewerage 88:sup76-7 D '41; Same. Sci Am 166:192 Ap '42

Ozonation at Whiting, Ind.; with cost data. J. F. Bartuska. flow diag il Am Water Works Assn J 33:2035-50 N '41

Ozone as a water purifier in America. il diags Engineer 173:541-3 Je 26 '42

Use of ozone for water purification. A. W. Consoer. il Civil Eng 11:701-2 D '41

Water works world; ozone as an effective sterilization agent for water. R. E. Thompson. flow diag il Water & Sewage 80:15-16+ Ja '42

Patents

Water and sewage patents (cont). J. F. Smith. Water Works & Sewerage 88:566-7; 89:41, 120, 179, 209, 243, 451 D '41-Ja, Mr-Je, O '42

Sand removal

Sand removal from well water; use of Brassert automatic self-cleaning strainers. G. L. Fugate. il diags Water Works & Sewerage 89:161-4 Ap '42

Silica removal

Handbook of feedwater treatment; silica removal. diags Power 85:869 D '41

Swimming pool water

Time factor in chlorine and chloramine disinfection of contaminated swimming pool waters; abstract. E. T. Chanlett and H. B. Gotass. Water Works & Sewerage 88:511 N '41

Taste and odor removal

Accuracy and application of threshold odor tests. C. H. Spaulding. il Am Water Works Assn J 34:877-910 Je '42

Chlorine-ammonia treatment of water; committee report. Am Water Works Assn J 33:2079-123 bibliog(p2120-3) D '41

History of taste and odor control. W. W. Hassler. Am Water Works Assn J 33:2124-52 bibliog(182 titles, p2144-52) D '41

How to handle the algae problem. A. E. Berry. il Water & Sewage 80:17-20+ S '42

Operation of water treatment plants; second edition, revised; methods of taste and odor control. W. A. Hardenbergh and others. Pub Works 73:62-4 Je '42

Relative efficiency of activated carbon and aeration in the removal of tastes and odors. G. G. Bogren. N E Water Works Assn J 56:184-7; Discussion. 187-91 Je '42

Studies on the accuracy of threshold odor values. R. Hulbert and D. Feben. Am Water Works Assn J 33:1945-56; Discussion. 1956-64 N '41

Treating a bad case of ceratium at Hillsboro, Ill. F. A. Roemelin. Pub Works 73:28 Jl '42; Same cond. Eng N 129:433 S 24 '42

Use of ozone for water purification. A. W. Consoer. il Civil Eng 11:701-2 D '41

Where to apply activated carbon for effective taste and odor control. diags Water & Sewage 80:20+ Jl '42

WATER purification, Natural

Investigation of an unusual natural water softening. D. W. Graham. bibliog Am Water Works Assn J 34:589-94 Ap '42

Study of the pollution and natural purification of the Scioto river. R. W. Kehr and others. (Pub. health bul. 276) 153p bibliog(p144-6) U.S. Public health service, Washington; pa 20c Supt. of doc. '41

WATER rates

Development of a sound water rate structure. W. S. Herbert. Am Water Works Assn J 34:374-8; Discussion. L. E. Ayres. 378-82 Mr '42

WATER rates—*Continued*

Joint administration and collection of water and sewer accounts. bibliog Am Water Works Assn J 33:1911-22 N '41; Same. Water Works & Sewerage 88:530-4 N '41; Discussion. Am Water Works Assn J 33:1923-8 N '41; Water Works & Sewerage 88:534-5 N '41

Municipal water charges to industrial users. A. C. King. N E Water Works Assn J 56:133-5 Je '42

Promoting conservation of water by rate surcharges. F. C. Amsbary, jr. bibliog Am Water Works Assn J 34:1516-21; Discussion. J. J. Doland. 1521-2 O '42

War and water rates. R. Newsom. Am Water Works Assn J 34:1511-15 O '42

WATER rights

Navigable waters as a legal fiction. H. Kelso. bibliog J Land & Pub Util Econ 17:394-405 N '41

Selected problems in the law of water rights in the West; abstract. W. A. Hutchins. Am Water Works Assn J 34:1272-5 Ag '42

See also

Rockland power and light company

WATER sampling

Concentrating filter for large water samples. B. R. Ford and M. F. Gunderson. il diags Am Water Works Assn J 34:585-8 Ap '42

Depth sampler. il diags Am Water Works Assn J 33:2207-9 D '41

Effect of container on soluble silica content of water samples. C. A. Noll and J. J. Maguire. bibliog Ind & Eng Chem Anal ed 14:569-71 Jl 15 '42

Identification of micro-organisms in relation to water purification. J. B. Lackey. bibliog diags Am Water Works Assn J 34:1559-68 O '42

Rating and sampling wells by an improved method. P. F. Howard. diag Water Works & Sewerage 89:sup117 Je '42

Sampling of steam and boiler water; corrosion resistant metals in sampling equipment. A. R. Belyea and A. H. Moody. Am Soc T M Proc 41:1264-73; Discussion. il 1274-6 '41

WATER seal

New water-sealed gas holder has concrete water-sealing tank. F. A. Herr. il diags Am Gas J 156:9-11 Je '42

WATER softening

Accelerated tests for determination of attrition loss of carbonaceous zeolites. S. J. Broderick and E. S. Hertzog. il Am Water Works Assn J 34:94-106 Ja '42

Blow down return or hot process system of softening. R. P. Donnelly. diag Chem & Ind 60:759-60 O 25 '41

Boiler compounds and boiler water conditioning. B. Levitt. il Chem Ind 50:656-8 My '42

Calcium bicarbonate removal from water in sulphate mills. H. W. Frazer. diag Paper Tr J 114:31-4 Ap 2 '42

Census of U.S. municipal water softening plants. H. M. Olson. Am Water Works Assn J 33:2153-91 D '41

Chemical aspects of hardness in water and its removal; abstract. T. Stones. Am Water Works Assn J 34:778-9 My '42

Conditioning feedwater for high-pressure boilers. A. C. Dresher. flow diag diags Power Pl Eng 46:67-9 O '42

Developments in the treatment of water. E. Nordell. flow diags plan diags Paper Tr J 115:23-7 O 8 '42; Same cond. Paper Ind 24:744+ O '42

Elgin water softener. Marine Eng 47:278 O '42

Handbook of feedwater treatment; cold lime-soda and hot-process softening. diags Power 85:870-1 D '41

High-speed water softening process makes its municipal debut; Spiractor installation, Teutopolis, Ill. A. Van Praag, jr. flow diag il Eng N 129:442-4 S 24 '42

Investigation of an unusual natural water softening. D. W. Graham. bibliog Am Water Works Assn J 34:589-94 Ap '42

Lime softening graphically studied. H. O. Hartung. il Water Works & Sewerage 88:539-44 D '41

Operation of water treatment plants; second edition, revised; how hard water is softened. W. A. Hardenbergh and others. Pub Works 73:56-9 Je '42

Permutit Zeo-Karb water softeners. diag Ry Age 112:551 Mr 14 '42

Phosphates in water conditioning. C. Schwartz and C. J. Munter. bibliog(97 references) Ind & Eng Chem 34:32-40 Ja '42

Reconditioning zeolites which have lost exchange capacity due to contamination. A. Klein. Soc Chem Ind J 60:262-3 O '41

Reduction of mineral content in water with organic zeolites. R. F. Goudey. bibliog il Am Soc C E Proc 68:225-36; Discussion. 265-8, 625-6, 841-4 F, Ap-My '42

Relation between tap water and plating efficiency. J. P. ApRoberts. Metal Finishing 40:415-19 Ag '42

Round-up of the water conditioning situation under war conditions. il diag Rayon 23:425-7 Jl '42

Six ways to soften water. H. M. Olson. Eng N 129:444 S 24 '42

Softener capacity increased; Elgin zeolite water softener manifold system. diags Power Pl Eng 46:118 N '42

Softening surface water at Kankakee, Ill.; abstract. H. D. Clark. Eng N 128:492 Mr 26 '42

Softening water with nonmetallic minerals. S. J. Broderick. bibliog U S Bur Mines Rep of Invest 3578:1-18 '41; Abstract. Can Chem & Process Ind 25:647-8 D '41; Same abr. Eng & Min J 142:120 N; 123-4 D '41; 143:115-16 Ja; 164 F '42

Some observations on the difficulties experienced in water softening for public supply purposes. A. E. Rawson and E. L. Streatfield. Chem & Ind 60:766-9 O 25 '41

Some suggestions for starting water softening plants. C. P. Hoover. Eng N 129:559 O 22 '42

Spiractor, the new sludgeless cold lime-soda water softener. H. L. Tiger and M. E. Gilwood. il diags Paper Tr J 115:27-31 S 24 '42

Stabilization of lime-softened water with carbon dioxide gas. C. P. Hoover. bibliog il diag Am Water Works Assn J 34:1425-45; Discussion. 1445-54 S '42

Theory and practice of base-exchange water treatment; abstract. E. G. Barber. Am Water Works Assn J 34:777-8 My '42

Treatment of water for domestic and industrial requirements. A. Parker. Engineering 154:44-5, 77-8 Jl 17-24 '42

Unusually elaborate water treatment; softening and filtration plant serving Los Angeles area. il Water & Sewage 80:11+ Ja '42

Water problems in small power plants. E. P. Partridge and A. L. Soderberg. bibliog il Blast F & Steel Pl 30:664-70 Je '42

Water softening at Twin Cities plants. L. N. Thompson; J. A. Jensen. il plan Civil Eng 12:603-6 N '42

Water softening claims not justified; borax. Consumers' Research Bul 9:18-19 Ja '42

Water softening; does calcium bicarbonate solution require additional quantity of CO_2 for stability? U. R. Evans; A. Parker. Chem & Ind 60:867-8 D 6 '41

Water softening in the laundry industry. F. C. Harwood. Chem & Ind 60:760-3 O 25 '41; Abstract. Soap & San Chem 18:26+ Ja '42

Water softening plant for Kansas City. M. P. Hatcher. il plan Am Water Works Assn J 34:703-11 My '42; Same. Water Works & Sewerage 89:185-9 My '42

Water softening; St Paul and other cities. R. E. Thompson. diags Water & Sewage 80:25+ F '42

Water softening; some observations on the principal methods. A. Parker. Chem & Ind 60:795-9 N 8 '41

Water treatment in large power stations. G. W. Hewson. Chem & Ind 60:764-5 O 25 '41

WATER softening—*Continued*

Water treatment processes as used in the textile industry. J. T. Hendry. Soc Dyers & Col J 58:153-5 Ag '42

See also

Feed water purification
Zeolites

Testing

Water softener test. Soap & San Chem 18:59 Ag '42

WATER storage

Aestheticism and a scheme for keeping fresh water fresh. D. R. Taylor. diag Water Works & Sewerage 89:397-8 S '42

Underground storage for floods assures army camp water supply. C. G. Beardslee. il Eng N 128:406-7 Mr 12 '42

Utilizing elevated storage for increasing supply and economy. Pub Works 73:35-6 Jl '42

See also

Dams
Irrigation
Rain and rainfall
Reservoirs
Standpipes
Water tanks

WATER supply

Aestheticism and a scheme for keeping fresh water fresh. D. R. Taylor. diag Water Works & Sewerage 89:397-8 S '42

Distribution of health services in the structure of state government; sanitation by state agencies. J. W. Mountin and E. Flook. Pub Health Rep 57:885-902 Je 12 '42

Evaporation loss from land areas; abstract. D. Lloyd. Am Water Works Assn J 34:1476-7 S '42

New Lake Erie water supply system of Toledo. F. R. Hawkins. il Water Works & Sewerage 89:165-8 Ap '42

Proceedings of the fifteenth annual conference, the Maryland-Delaware water and sewerage association, Washington, D.C., May 8-9, 1941. 96p pa $1 Maryland-Delaware water and sewerage assn, Carl J. Lauter, sec-treas, 5902 Dalecarlia pl, NW, Washington, D.C. '41

Public water supply in the civilian defense program. R. E. Tarbett. N E Water Works Assn J 56:221-9 Je '42

Regional water supplies. A. Wolman. map Am Water Works Assn J 33:1875-93; Discussion. 1893-6 N '41

Relation of river dams to community water supplies; experience of Tennessee Valley authority. W. G. Stromquist and L. H. Clouser. Am Water Works Assn J 34:367-73 Mr '42

Subsurface survey provides water supply data; Springfield, Mass. Eng N 128:413 Mr 12 '42

Water, a critical war material. A. E. Gorman. Water Works & Sewerage 89:431-2 O '42

Water supply protection in civilian defense. R. E. Tarbett. Am Water Works Assn J 34:1335-42 S '42

See also

Aqueducts
Cooling of water
Dams
Droughts
Feed water
Filters and filtration
Filtration plants
Fire service (water supply)
Hot water supply
Hydrants
Hydraulic engineering
Irrigation
Plumbing
Pumping machinery
Pumping stations
Pumps
Railroads—Water supply
Rain and rainfall
Reservoirs
Rivers
Snow
Water, Underground
Water districts, and other headings beginning Water
Watersheds
Waterworks
Wells

also subdivision Water supply under names of cities, e.g. New York (city)—Water supply

Calcium content

Calcium in the adult diet. T. Moran and J. B. Hutchinson. bibliog Chem & Ind 61:416-17 O 10 '42

Costs

See also

Water distribution—Cost
Waterworks—Costs

Fluorine content

Domestic water and dental caries; additional studies of the relation of fluoride domestic waters to dental caries experience in 4,425 white children, aged 12 to 14 years, of 13 cities in 4 states. H. R. Dean and others. Pub Health Rep 57:1155-79 Ag 7 '42

Domestic water and dental caries; effect of increasing the fluoride content of a common water supply on the lactobacillus acidophilus counts of the saliva. F. A. Arnold, jr., H. T. Dean and E. Elvove. bibliog Pub Health Rep 57:773-80 My 22 '42

Methods of determining fluorides; committee report. bibliog diags Am Water Works Assn J 33:1965-2017 N '41; Discussion. E. Elvove; R. F. Goudey. 33:2210-14 D '41

Iron content

Some observations on the problem of iron in bleaching wood pulp. E. L. Keller and F. A. Simmonds. bibliog Paper Tr J 115:98-104 O 1 '42

See also Water purification—Iron removal

Lead content

Effect of sodium hexametaphosphate on the solution of lead. E. W. Moore and F. E. Smith. diag Am Water Works Assn J 34:1415-24 S '42

Study of solubility of two lead salts in dilute solutions with special reference to the lead hazard in drinking water. C. C. Ruchhoft and J. F. Kachmar. Am Water Works Assn J 34:85-93 Ja '42

Manganese content

Manganese in deep reservoirs. E. S. Hopkins and G. B. McCall. bibliog il Ind & Eng Chem 33:1491-5 D '41

Metal content

Estimation of metals in water, with special reference to the use of organic reagents; abstract. T. Stones. Am Water Works Assn J 34:1455-8 S '42

Mineral content

Chemical character of the larger public water supplies in Georgia. W. L. Lamar. map Am Water Works Assn J 34:505-12 Ap '42

Graphical methods for indicating the mineral character of natural waters. W. F. Langelier and H. F. Ludwig. bibliog diags Am Water Works Assn J 34:335-52 Mr '42

Standards

Dominion government assumes authority over all municipal water supplies. il Water & Sewage 80:15-16 S '42; Same. Am Water Works Assn J 34:1739-40; Discussion. H. Jordan. 1740-2 N '42

Proposed revision of Treasury department standards for drinking water; New England water works association meeting. Water Works & Sewerage 89:175-6 Ap '42

Research and control; comment on Canadian government's control of water standards. N. J. Howard. Water & Sewage 80:24+ S '42

Research and control; water-borne disease. N. J. Howard. Water & Sewage 80:17-18+ Ja '42

Tentative manual of safe practice in water distribution. Am Water Works Assn J 34:915-36 Je '42

Water quality problems in small systems. L. H. Cook. Am Water Works Assn J 34:911-14 Je '42

Testing

See Water—Testing

WATER supply—*Continued*

California

Drop structures for erosion control; protection of watershed by East Bay municipal utility district. L. S. Hall. il Civil Eng 12:247-50 My '42

Methods of financing water main extensions in California. M. S. Jones. Am Water Works Assn J 34:555-60 Ap '42

Mojave river investigation, 1934. (Bul. 47) 249 numb l California. Dept. of public works, Div. of water resources, Sacramento '41

See also
Central Valley project, California

Canada

Consumption of chemicals by municipal waterworks in Canada; statistical data, 1941. il Water & Sewage 80:23-4, 46, 48-9 O '42

Directory of Canadian waterworks systems; reference data. Water & Sewage 80:38-113+ Je '42

Dominion government assumes authority over all municipal water supplies. il Water & Sewage 80:15-16 S '42; Same. Am Water Works Assn J 34:1739-40; Discussion. H. Jordan. 1740-2 N '42

First joint American-Canadian stream flow report notes favorable conditions. map Eng N 128:1039 Je 25 '42

Industrial waters of Canada; report on investigations, 1934 to 1940. H. A. Leverin. 112p pa 25c Canada. Dept. of mines and resources, Ottawa '42

Progress and prospects in water-supply and sewerage works. A. E. Berry. il plan Water & Sewage 80:7-10+ Ja '42

Study of surface waters and municipal supplies by Canadian Department of mines and resources. R. E. Thompson. Water & Sewage 80:25-6+ S '42

Colombia

Special features of water-filtration plants in Colombia. C. S. de Santamaria. il Water & Sewage 80:22-3 F '42

Connecticut

Guarding water works property. W. J. Scott. Am Water Works Assn J 34:1163-7 Ag '42; Abstract. Eng N 129:100 Jl 16 '42

Florida

Chemical character of public water supplies in southeastern Florida. S. K. Love and H. A. Swenson. map Am Water Works Assn J 34:1624-8 N '42

See also
Water, Underground —Florida

Georgia

Chemical character of the larger public water supplies in Georgia. W. L. Lamar. map Am Water Works Assn J 34:505-12 Ap '42

Industrial quality of public water supplies in Georgia, 1940. W. L. Lamar. map U S Geol S Water-supply Pa 912:1-83; pa 15c Supt. of doc. '42

Great Britain

Examples of regionalization in the water industry. Gas J (Lond) 239:280-1 Ag 19 '42

See also Water, Underground—Great Britain

Long Island

Relation of county health department to local water supplies; Nassau-Suffolk water superintendents conference. A. H. Herberger. Am Water Works Assn J 34:836-47; Discussion. 847-8 Je '42

Maine

Mutual aid plan at work. H. H. Potter. Am Water Works Assn J 34:1173-9 Ag '42; Abstract. Eng N 129:101 Jl 16 '42

Water supply co-ordinator of Maine; abstract. H. H. Potter. Water Works & Sewerage 89:105-6 Mr '42

Massachusetts

State emergency plan of the commonwealth of Massachusetts. A. D. Weston. maps N E Water Works Assn J 55:489-508; Discussion. 508-15 D '41

Water charges to municipalities in the Boston metropolitan area by the Metropolitan district commission. K. R. Kennison. N E Water Works Assn J 55:522-49; Discussion. 550-60 D '41

See also Water, Underground—Massachusetts

Minnesota

Legal responsibility of Minnesota municipalities for polluted water. O. C. Peterson. Am Water Works Assn J 34:37-52 Ja '42

Missouri

Surface waters of Missouri (stream-flow records) 1927-1939. H. C. Beckman. 900p $2 Missouri geological survey and water resources, Rolla '40

Nebraska

Ground water in Keith county. L. K. Wenzel and H. A. Waite. il pls diags fold maps U S Geol S Water-supply Pa 848:1-68 '41

New England

1941 drought and its effect on water supplies in New England; a symposium. map N E Water Works Assn J 56:237-53 Je '42

New Hampshire

Water conservation in New Hampshire. R. S. Holmgren. N E Water Works Assn J 56: 1-7 Mr '42

New Jersey

Accounting organization of the North Jersey water district. M. M. McLaughlin. Am Water Works Assn J 34:383-8; Discussion. J. E. Garratt. 388-9 Mr '42

New York (state)

Mutual aid plan at work. E. Devendorf. Am Water Works Assn J 34:1179-85 Ag '42; Abstract. Eng N 129:100-1 Jl 16 '42

Mutual aid plan for water supply systems of Westchester county. J. C. Harding. il Water Works & Sewerage 89:190-3 My '42

New York state mutual aid plan for water service in case of emergencies. A. F. Dappert. Am Water Works Assn J 34:189-99 F '42

Ohio

Investigations of water works protection in Ohio. W. H. Knox. Am Water Works Assn J 34:1357-61 S '42

Ohio stream drainage areas and flow duration tables. C. H. Wall and C. V. Youngquist. maps Ohio State U Eng Exp Sta Bul 111:1-73 '42 (pa 75c)

Surface and underground waters of Ohio. W. Stout, C. V. Youngquist and R. E. Lamborn. il maps Ohio State U Eng Exp Sta Circ 43:1-20 '42

See also
Water, Underground —Ohio

Ontario

Deep wells as a source of water supply. A. T. Byram. il Water & Sewage 80:13-16 Je '42

Pennsylvania

Iron removal in western Pennsylvania. L. S. Morgan and C. H. Young. Am Water Works Assn J 33:1929-44 N '41

Mutual aid plan at work. J. H. Murdoch, jr. Am Water Works Assn J 34:1186-8 Ag '42; Abstract. Eng N 129:101 Jl 16 '42

South Dakota

Supply and treatment problems in South Dakota. E. R. Mathews. Am Water Works Assn J 34:749-55 My '42

See also Water, Underground—South Dakota

WATER supply—*Continued*

United States

Chemical character of water available for pulp, paper, and paperboard manufacture in the United States. W. D. Collins. map Paper Tr J 115:35-6 Ag 6 '42

Developments of the year in water supply. R. Newsom. il diags Water Works & Sewerage 89:1-16 Ja '42

First joint American-Canadian stream flow report notes favorable conditions. map Eng N 128:1039 Je 25 '42

Materials requirements for U.S. public water supply construction and maintenance. H. E. Jordan. Am Water Works Assn J 34:737-45 My '42

U.S. water supply practice. A. E. Kelso. il diags Am Water Works Assn J 34:984-1034 Jl '42

Unusual events and their relation to federal water policies. W. G. Hoyt. il Am Soc C E Proc 68:211-24 F '42; Discussion. 68:619-24, 1199-1204; 69:148-50 Ap, S '42, Ja '43

Water outlook favorable says Geological survey. Elec W News ed 117:1437 Ap 25 '42

See also Water, Underground—United States

Utah

Water and community growth in Utah. R. R. Woolley. il maps Civil Eng 12:500-2 S '42

Virginia

Some experiences with the water supply system of Washington county, Va.; abstract. J. B. Vance. Water Works & Sewerage 89:34-5 Ja '42

See also
Water, Underground
—Virginia

Wisconsin

Water main extension policies in Wisconsin. P. A. Reynolds. Am Water Works Assn J 34:544-54 Ap '42

WATER supply, Rural

Maintenance and repair, contractor's key to business; examples of sales and servicing of water systems and water heaters. Dom Eng 160:48-9+ O '42

Running water clinic: defense aims. Elec West 88:83 F '42

Some water works practices in small communities. il Pub Works 73:19-20 Jl '42

WATER supply engineering

Developing the Neversink watershed. T. L. Wells. il diags maps Explosives Eng 20:166-74 Je '42

Dual water supply for Oklahoma City. il map Eng N 128:788-90 My 7 '42

Engineering and economic problems involved in a small waterworks system, Port Lambton, Ont. G. A. Macdonald. plans Water & Sewage 80:20-1+ O '42

Engineer's view of well drilling contracts. E. A. Bell. Am Water Works Assn J 34:678-80 My '42

Headline projects of 1941. il Eng N 128:122 Ja 15 '42

Million dollar improvements for Everett water supply. il Pub Works 72:20+ N '41

Ranney system of underground-water collection. il diags Engineering 152:461-3 D 12 '41

Rehabilitation of the Philadelphia water works. S. M. Van Loan. Am Water Works Assn J 34:107-14; Discussion. N. B. Jacobs. 114-16 Ja '42

Salt water intrusion at Miami. A. B. De Wolf. il Pub Works 73:22-3 Mr '42

Sanitary construction and protection of wells. H. J. Ongerth. bibliog Am Water Works Assn J 34:671-7 My '42

Sorocold's waterworks at Leeds, 1694. F. Williamson and W. B. Crump. bibliog map Engineer 172:352, 372-3 N 21-28 '41

Strategy and tactics on a wartime waterworks project; providing adequate water for Norfolk, Newport News and Portsmouth, Va. E. J. Cleary. il Eng N 129:474-8 O 8 '42

Supply and treatment problems in South Dakota. E. R. Mathews. Am Water Works Assn J 34:749-55 My '42

Toledo's new Lake Erie water supply. G. N. Schoonmaker. il map Civil Eng 12:316-19 Je '42

Tunnels for increasing Honolulu's artesian water supply. diag Pub Works 73:29 Ja '42

U.S. water supply practice. A. E. Kelso. il diags Am Water Works Assn J 34:984-1034 Jl '42

Water and sewerage design problems in a boomtown area; Danville and Middletown, Iowa. C. M. Stanley. diags Eng N 128:548-50 Ap 9 '42

Water supply in Cyprus; abstract. C. Raeburn. Am Water Works Assn J 34:306-8 F '42

See also
Aqueducts
Dams
Filters and filtration
Filtration plants
Fire service (water supply)
Hot water supply
Hydraulic engineering
Intakes
Irrigation
Pipe laying
Plumbing
Pumping machinery
Pumping stations
Pumps
Railroads—Water supply
Reservoirs
Siphons
Water conduits
Water distribution
Water flow
Water meters
Water pipes
Water purification
Waterworks
Wells

Bibliography

Survey of water technology, 1941. L. B. Miller. Paper Tr J 114:38-44 Ap 16 '42

Tables, calculations, etc.

Quantities of cylindrical intersections. L. J. Sack. diags Eng N 128:618-21 Ap 23 '42

Water volume in partly filled tunnel. L. J. Sack. diags Eng N 129:33 Jl 2 '42

WATER supply for armies

Arch dam built between gravity abutments; project to supply additional water for Camp San Luis Obispo, Calif. il Eng N 128:530 Ap 9 '42

Experimental treatment of Rancocas Creek water for Fort Dix, N.J. R. D. Mitchell. N E Water Works Assn J 56:76-83 Mr '42

Mobile ozone unit for water purification. il Eng N 127:807 D 4 '41; Water Works & Sewerage 88:sup76-7 D '41

Sanitation in the field in the United States army; abstract. S. A. Goldblith. Am Water Works Assn J 34:1264 Ag '42

Underground storage for floods assures army camp water supply. C. G. Beardslee. il Eng N 128:406-7 Mr 12 '42

Water and war. G. E. Symons. il Water & Sewage 80:22 Je '42

Water supplies for the army. W. A. Hardenbergh. Am Water Works Assn J 34:11-16 Ja '42

Water supply for armies; abstract. F. F. Longley. Am Water Works Assn J 34:1263-4 Ag '42

WATER supply for factories

Acid treatment quadruples flow in a war plant water well. il diags Eng N 129:232-4 Ag 13 '42

Comparison of estimated and actual consumption from the Birmingham industrial water supply system. A. C. Decker. Am Water Works Assn J 34:569-71 Ap '42

Distilled water obtained by process using no heat. il Sci Am 166:149 Mr '42

Drinking water; making it available on the job. il Nat Safety N 45:162 Mr '42

Industrial water requirements; symposium. Water Works & Sewerage 89:44-5 Ja '42

Industrial waters of Canada; report on investigations, 1934 to 1940. H. A. Leverin. 112p pa 25c Canada. Dept. of mines and resources, Ottawa '42

WATER supply for factories—*Continued*

Latest progress in industrial water treatment; abstract. A. M. Buswell. Min & Met 23:553-4 N '42

Municipal water charges to industrial users. A. C. King. N E Water Works Assn J 56:133-5 Je '42

Reporting what's new in equipment; water treatment. Chem & Met Eng 48:124 N '41

Treatment of water for domestic and industrial requirements. A. Parker. Engineering 154:37-8, 44-5, 77-8 Jl 10-24 '42

Watch your water supply, it affects food quality. K. G. Weckel. il Food Ind 14:47-50+ Ja '42

Water for process industries; supplies suitable for various manufacturing processes. H. A. Leverin. Can Chem & Process Ind 26:522-3+ S '42

Water for the South's powder plants; radial well developed by the Ranney water collector corporation. il diags Manuf Rec 111:32-3 Je '42

See also

Cooling water

Drinking water systems

Water supply for paper mills

Water supply for textile mills

Bibliography

Survey of water technology, 1941. L. B. Miller. Paper Tr J 114:38-44 Ap 16 '42

WATER supply for laundries

Water softening in the laundry industry. F. C. Harwood. Chem & Ind 60:760-3 O 25 '41; Abstract. Soap & San Chem 18:26+ Ja '42

WATER supply for paper mills

Calcium bicarbonate removal from water in sulphate mills. H. W. Fraser. diag Paper Tr J 114:31-4 Ap 2 '42

Chemical character of water available for pulp, paper, and paperboard manufacture in the United States. W. D. Collins. map Paper Tr J 115:35-6 Ag 6 '42

Developments in the treatment of water. E. Nordell. flow diags plan diags Paper Tr J 115:23-7 O 8 '42; Same cond. Paper Ind 24:744+ O '42

Effect of mill operations on the number of bacteria found in paper and paperboard products. J. R. Sanborn. Paper Tr J 115:28-32 O 8 '42

Microbiological deposits and bacteriological corrosion. A. E. Griffin. bibliog il Paper Tr J 115:32-7 S 24 '42

Pumping problems in the paper industry. M. L. Edwards. diag Power Pl Eng 46:83-4 Ap '42

Ranney water collector systems. J. F. Rhoades. diags Paper Tr J 114:123-4, 126, 128 F 19 '42; Abstract. Pulp & Pa of Can 43:312 Mr '42

Slime control in a modern newsprint mill. N. S. Grant. diags plans Pulp & Pa of Can (Convention no) 43:89-93 [F] '42

Some observations on the problem of iron in bleaching wood pulp. E. L. Keller and F. A. Simmonds. bibliog Paper Tr J 115:98-104 O 1 '42

Spiractor, the new sludgeless cold lime-soda water softener. H. L. Tiger and M. E. Gilwood. il diags Paper Tr J 115:27-31 S 24 '42

Water committee report, 1941. L. B. Miller. Paper Tr J 114:33 Ja 29 '42

Water in the paper industry; forty years of progress. M. O. Neilson. Pulp & Pa of Can 43:611-12 Jl '42

Water treatment developments. W. R. Gibson. Paper Tr J 114:53-6 My 14 '42

Bibliography

Survey of water technology, 1941. L. B. Miller. Paper Tr J 114:38-44 Ap 16 '42

WATER supply for petroleum industry

Economics of water conditioning for scale and corrosion control; with cost data. R. C. Rohrdanz. Pet Eng 13:135-6, 138 My '42

WATER supply for plating

Relation between tap water and plating efficiency. J. P. ApRoberts. Metal Finishing 40:415-19 Ag '42

WATER supply for power plants

Critical problems in the boiler feed water field. M. C. Schwartz. Am Water Works Assn J 34:1214-26 bibliog(69 titles, p1224-6) Ag '42

For condensers; one pump or two? H. R. Mueller. Power 86:475-7 Jl '42

Handy job-made filtering unit for make-up water. E. Sterrett. il Eng N 129:376-7 S 10 '42

Herkimer, N.Y. municipal system adds 3000 kw. il diag plans power Pl Eng 46:52-3 Ag '42

Parallel operation influences design of Venice No. 2. W. F. Ryan and E. H. Tenney. flow diag plans Elec W 118:443-4 Ag 8 '42

Propeller pump solves water problem; condenser water supply system at Morrow station. Elec W 118:949 S 19 '42

Some considerations concerning the siting of power stations; sewage effluent for circulating water. F. Favell. Inst E E J 89 pt 2:223-4 Je '42

Southwark pumps; abstract. S. L. Kerr and S. Moyer. diags Power 85:976-7 Mid-D '41

Stop corrosion attack; carbon dioxide in water may cause trouble. il Power 86:116-17 F '42

Treatment of water for domestic and industrial requirements. A. Parker. Engineering 154:37-8, 44-5, 77-8 Jl 10-24 '42

Tropical plant condensing problems uniquely solved; use of ocean water for condensing and cooling. J. T. Farmer. diags plan Elec W 117:800-3 Mr 7 '42

Water for industrial uses discussed at A.S.T.M. meeting. Water & Sewage 80:57-8 Ag '42; Same. Blast F & Steel Pl 30:898-9 Ag '42

Water problems in small power plants. E. P. Partridge and A. L. Soderberg. bibliog il Blast F & Steel Pl 30:664-70 Je '42

See also

Feed water purification

WATER supply for refrigerating plants

Scale and corrosion control in water and brine systems. J. A. Holmes. il Refrig Eng 43:145-8+ Mr '42

WATER supply for textile mills

Best of water supplies presents problems; pumping plant at Muscogee. H. M. Rogers. diags plan Rayon 22:740-2 D '41

Cleaning, sterilizing, and incorporating the Amoskeag mills water system into the Manchester, N.H. city system. P. A. Shaw. N E Water Works Assn J 56:212-20 Je '42

Phosphates in water conditioning; textile processing. C. Schwartz and C. J. Munter. bibliog Ind & Eng Chem 34:37-8 Ja '42

Round-up of the water conditioning situation under war conditions. il diag Rayon 23:425-8 Jl '42

Water treatment processes as used in the textile industry. J. T. Hendry. Soc Dyers & Col J 58:153-5 Ag '42

WATER tanks

Reservoirs and water tanks; discussion. Water & Sewage 80:83-4 Ap '42

Vibration periods of structures. H. M. Engle. Eng N 128:859-62 My 21 '42

Protection

Maintenance and protection of elevated water tanks. H. F. Stearns. Am Water Works Assn J 34:59-62 Ja '42

Maintenance of elevated tanks and standpipes. C. J. Leary. Am Water Works Assn J 34:63-8 Ja '42

Porcelain enamel as a protective coating for hot-water tanks. D. R. Goetchius. bibliog Am Cer Soc J 25:164-8 Mr 15 '42

WATER tanks, Concrete

Design and construction of preload tanks and domes. A. C. Linberg. il N E Water Works Assn J 56:230-6 Je '42

First prestressed gunite water tank for a Canadian municipality; Ste Anne de Bellevue, Que. E. Fancott. il Water & Sewage 80:17+ My '42

Prestressed concrete water tanks. il Eng N 128:608-9 Ap 23 '42

WATER tanks, Steel
Exterior ribs feature welded tank in Tulsa il Eng N 128:614-15 Ap 23 '42
Good and bad practices in tank maintenance. W. B. Davis. Am Water Works Assn J 34:1552-8 O '42; Same. Water Works & Sewerage 89:438-40 O '42
Guyless erection method; construction of a 50,000-gallon watersphere at Fall River, Wis. il diags Steel 110:86, 88 My 4 '42
Jonesboro kills two birds with one stone; elevated water tank reduces pumping load on power plant. L. M. Rebsamen. il Water Works & Sewerage 89:24-7 Ja '42
Madison's new watersphere. L. A. Smith. il Am Water Works Assn J 34:601-5 Ap '42
Putting a tank on a pedestal; Fall River, Wis. il Eng N 128:159 Ja 22 '42
Welded-steel reservoir with ellipsoidal roof at Tulsa, Oklahoma. il diag Engineering 154:256 S 25 '42
What it takes to be earthquake-resistant; Tucson tank. il diags Eng N 127:742 N 20 '41

Cathodic protection

Principles of cathodic tank protection; abstract. A. B. MacTaggart. Water Works & Sewerage 89:35 Ja '42
Tests on the cathodic method of protecting steel water tanks. G. L. O'Brien. bibliog il diag Water Works & Sewerage 89:285-91 Jl '42

Protection

Beware of rackets in the maintenance of steel water tanks and standpipes. il Water & Sewage 80:28+ Mr '42
Care and maintenance of elevated steel tanks. E. A. Alt. il Water & Sewage 80:18-19+ My '42; Abstract. Eng N 128:407 Mr 12 '42

Standards

Standard specifications for elevated steel water tanks, standpipes and reservoirs. map N E Water Works Assn J 55:sup 1-45 D '41

WATER towers
Madison's new watersphere. L. A. Smith. il Am Water Works Assn J 34:601-5 Ap '42
See also
Standpipes

WATER tube boilers. See Boilers, Water tube

WATER vapor
Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42
Analysis of gases dissolved in glass and gases present in seeds. H. A. Shadduck and A. Van Zee. bibliog il diags Am Cer Soc J 25:69-83 F 1 '42
Determination of water vapor in gaseous fuels. A. W. Gauger, F. C. Todd and W. J. Wiseman, jr. Am Gas Assn Proc 1941: 451-2
Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42
How to estimate the amount of water vapor transmitted through building walls. Heat & Ven 39:43-7 S '42
Measuring the specific surface of particulate substances; a water vapor adsorption method. D. Smith and H. Green. bibliog diag Ind & Eng Chem Anal ed 14:382-6 My 15 '42
New vapor transmission units proposed. Heating-Piping 14:685 N '42
Permeability of protective coatings to water vapor; abstract. R. E. Lishmund and F. J. Siddle. diag Chem & Met Eng 49:158 Ja '42
Psychrometry of cooling towers. E. Simons. Chem & Met Eng 49:82-6 Ap; 138-41 My '42
Radiant heat transmission from water vapor. H. C. Hottel and R. B. Egbert. bibliog diag Am Inst Chem Eng Trans 38:531-65; Discussion. 565-8 Je '42
Simultaneous heat and vapor transfer characteristics of an insulating material. F. G. Hechler, E. R. McLaughlin and E. R. Queer. bibliog diags Heating-Piping 14:574-8; Discussion. 578-9 S '42
Sorption of water vapor by vermiculite and its silica; equilibrium measurements. L. A. Spitze and L. A. Hansen. bibliog Ind & Eng Chem 34:506-8 Ap '42
Studies on the measurement of water vapor in gases. F. C. Todd and A. W. Gauger. il diags Am Soc T M Proc 41:1134-51 '41
Study of the electric hygrometer. R. N. Evans and J. E. Davenport. bibliog diags Ind & Eng Chem Anal ed 14:507-10 Je 15 '42
Valence and central forces in bent symmetrical XY_2 molecules. W. H. Shaffer and R. R. Newton. bibliog J Chem Phys 10: 405-9 Jl '42
Water in air; supersaturation and condensation; abstract. Hirsch. Chem & Ind 60:862 D 6 '41
See also
Steam

WATER waste
Controlling apparatus to eliminate waste of water in using the ordinary filter pump. F. E. Holmes. diag Ind & Eng Chem Anal ed 13:759-60 N 15 '41
Leesburg shows way to meet water waste problem. Water Works & Sewerage 88:577 D '41
New Philadelphia story; water waste survey has saved Philadelphia 13,000,000 gallons daily. M. J. McLaughlin. il Water Works & Sewerage 89:245-7 Je '42
Some pertinent facts on residential meters as they pertain to revenue return. L. Trentlage. Water Works & Sewerage 88:545-8 D '41
Water waste prevention and correction in Pittsburgh. H. E. Beckwith. Am Water Works Assn J 34:1523-6 O '42
Water waste surveys and leakage correction. E. K. Wilson. il Water Works & Sewerage 89:sup98-100 Je '42
See also
Water conservation

WATER wheels
Ingenuity and junk pile build a power plant; waterwheel made from hay rake part and old reflectors. A. Palme. il Power 86:570 Ag '42
See also
Turbines

WATER works. See Waterworks

WATERBURY, Connecticut

Water supply

Lining cast-iron pipe in place. L. H. Seton. il Eng N 129:372-3 S 10 '42

WATERFRONT control commission. See New Zealand—Waterfront control commission

WATERPROOF paper. See Paper, Waterproof

WATERPROOFING
Asphalt seal makes fiber box watertight; Loose-Wiles aqua-proof pack. S. M. Jackson. il Food Ind 14:62-3 N '42
Loose-Wiles aqua-proof seal for weatherproof solid-fibre shipping container. il Mod Packaging 16:42-4 O '42
Method suggested for waterproofing contact lights. Civil Aero J 3:130+ Je 15 '42
Relative value of masonry wall types in ability to resist rain. diags Concrete 50:18+ S '42
Report of A.S.T.M. committee D-8 on bituminous waterproofing and roofing materials. Am Soc T M Proc 41:379-86 '41
Resistance to rain offered by masonry walls; abstract. P. M. Woodworth. Rock Prod 45:70 Ap '42
Specification standards for government work. H. R. Sleeper. Arch Rec 91:64 Ja '42
Waterproofing of concrete structures. J. F. Cameron. Can Min J 62:834-5 D '41
See also
Paper board—Water resistance

WATERPROOFING of textiles
Chemical repellents. F. J. Van Antwerpen. il Ind & Eng Chem 33:1517-18 D '41
Chemical stratagems in waterproofing processes. Textile Col 64:95-8 F '42

WATERPROOFING of textiles—*Continued*

Flexible coatings for textiles. M. W. Cerf. il Mod Plastics 19:43+ F '42

pH control in waterproofing; simple colorimetric methods. G. S. Ranshaw. Textile Col 64:429-30 S '42

New coated finish; vinyl acetal plastic in place of rubber to waterproof army fabrics. il Textile World 92:88-9 S '42

Open forum meeting on dyeing and finishing of army goods conducted by Piedmont section, June 20, 1942. Am Dyestuff Rep 31:402-3 Ag 17 '42

Plastic substitute material meets rubber specifications in waterproof fabrics; Saflex. Rubber Age 51:421 Ag '42; Same. il India Rubber W 106:599 S '42; Same cond. Chem & Eng N 20:1113 S 10 '42

Water repellent fabrics. Textile Col 63:671-2 D '41

Water repellent finish. Textile World 92:88 Ag '42

Water repellents in drycleaning solvents. Textile Col 64:389-90 Ag '42; Same cond. Soap & San Chem 18:55 O '42

Waterproofing heavy woolens by aluminium acetate. W. R. Lang. Textile Col 64:300 Je '42

Waterproofing of acetate rayon materials. A. J. Hall. Textile Col 64:275-6 Je '42

Waterproofing textile fabrics; proofing agents, methods of application and testing. B. Monsaroff. il Can Chem & Process Ind 26:265-8 My '42

See also
Cravenette
Raincoats
Rubberized fabrics

Testing

Cotton fabric constructions in relation to water resistance. il Am Dyestuff Rep 31:6-12 Ja 5 '42

Test for water repellency. Textile Col 64:360 Jl '42

WATERSHEDS

Developing the Neversink watershed. T. L. Wells. il diags maps Explosives Eng 20:166-74 Je '42

Watershed management requires economic studies. A. Z. Nelson. J Land & Pub Util Econ 18:90-1 F '42

Protection

Drop structures for erosion control; protection of watershed by East Bay municipal utility district, California. L. S. Hall. il Civil Eng 12:247-50 My '42

WATERWAYS

Importance of inland waterways in the present world conflict. T. E. Lyons. il For Comm W 5:7-9+ N 15 '41

Inland navigation and canals. J. M. Lacey. diags Engineering 153:374, 383, 403-4 My 8-22 '42

Inland waterway carriers. H. Kelso. J Land & Pub Util Econ 18:58-66 F '42

Inside passage; Intracoastal canal becomes strategic commercial artery as result of war. il map Business Week p18 Ap 11 '42

Intracoastal waterways may aid eastern oil deliveries. H. D. Ralph. map Oil & Gas J 41:24-5 Je 4 '42

Lauds inland waterways. S. W. Richards. Comm & Fin Chr 156:1716 N 12 '42

Navigable waters as a legal fiction. H. Kelso. bibliog J Land & Pub Util Econ 17:394-405 N '41

Water transportation for forty years. Pulp & Pa of Can 43:635+ Jl '42

Waterway problems and Illinois highways. C. Jenkins. In Ill U Eng Exp Sta Circ 42:7-21 '42

See also
Canals
Chicago drainage canal
River traffic
Rivers

Canada

See also St Lawrence waterway and power project

Ohio

How cheap is river transport? with cost data. C. E. Troxel. Ry Age 113:408-11 S 12 '42

United States

Development of transportation in the United States. J. E. Teal. il Am Soc C E Proc 67:1830-2 D '41

FDR calls for action on Rivers & harbor bill. Comm & Fin Chr 155:776 F 19 '42

Produce for war first; government expenditures for waterways should not be permitted to interfere with military effort. F. M. Patterson. Pub Util 29:675-80 My 21 '42

Study board issues public aid exhibits; Board of investigation and research created by the Transportation act of 1940; highway and waterway exhibits. Ry Age 112:1184-5 Je 20 '42

Value of the federal waterway system. E. S. Bowers. Comm & Fin Chr 155:450 Ja 29 '42

See also
Columbia river
Mississippi river
Rivers—United States
St Lawrence waterway and power project

WATERWORKS

Arizona sewage and water works association meeting, Tucson, April 10-11. Water Works & Sewerage 89:198-200 My '42

Developments of the year in water supply. R. Newsom. il diags Water Works & Sewerage 89:1-16 Ja '42

El Paso expands utilities for army use. il plan Eng N 129:166-9 Jl 30 '42; Abstract. Water & Sewage 80:25-6 O '42

Features of the South District filtration project of Chicago. R. E. Thompson. il Water & Sewage 80:26-7+ Ag '42

Georgia's water and sewage school, 10th annual meeting, Oct. 22-25. Water Works & Sewerage 88:491-9 N '41

Growing pains of a small town water system. P. D. Wilson. Am Water Works Assn J 34:402-3 Mr '42

Importance of annual municipal reports as source of information for water and sewage works engineers. Water & Sewage 79:18+ D '41

Improvements to Scarborough waterworks system. R. Harrison. il diags plans Water & Sewage 79:11-15+ D '41

Maine water utilities association 13th annual meeting, Portland, Feb. 11. Water Works & Sewerage 89:102-6 Mr '42

Maryland-Delaware association's 16th annual conference, Hagerstown, Md. June 7-8. Water Works & Sewerage 89:305-9 Jl '42

Materials requirements for U.S. public water supply construction and maintenance. H. E. Jordan. Am Water Works Assn J 34:737-45 My '42

Minnesota section, A.W.W.A. 26th annual conference, St Paul, Sept. 24-25. Water Works & Sewerage 89:453-4 O '42

Modern adaptation of architectural concrete. il Water Works & Sewerage 89:133-5 Mr '42

Montana section, American water works association, annual meeting, Helena, April 17-18. Water Works & Sewerage 89:205-7 My '42

New Jersey section A.W.W.A. holds joint meeting with American public health assn. Water Works & Sewerage 88:508-13 N '41

New York section A.W.W.A. annual winter meeting, New York, Dec. 30. Water Works & Sewerage 89:48-9 Ja '42

North Carolina section of A.W.W.A. annual meeting, High Point, Nov. 3-5. Water Works & Sewerage 89:42-6 Ja '42

Operation of water treatment plants; second edition, revised. W. A. Hardenbergh and others. il diags Pub Works 73:17-64 Je '42

Pacific North-West section of American water works association annual meeting, Walla-Walla, May 8-9. Water Works & Sewerage 89:223-4 My '42

Progress and prospects in water-supply and sewerage works. A. E. Berry. il plan Water & Sewage 80:7-10+ Ja '42

WATERWORKS—*Continued*

Progress report no. 1 of the Committee on survival and retirement experience with water works facilities. Am Water Works Assn J 34:1585-7 O '42

Report of the Committee on water works practice. Am Water Works Assn J 34:412-25 Mr '42

Shanghai waterworks co.'s annual report. il Water & Sewage 80:25-6 Mr '42

Some water works practices in small communities. il Pub Works 73:19-20 Jl '42

South District filtration plant of the city of Chicago. F. G. Gordon and others. Am Water Works Assn J 34:1381-1404 S '42

South District filtration project, Chicago. flow diags il diags plans map Eng N 128:995-1023 Je 18 '42

Toledo dedicates a fine new water works. il diag plans Pub Works 73:12-15+ Ja '42

Toledo's new Lake Erie water supply. G. N. Schoonmaker. il map Civil Eng 12:316-19 Je '42

U.S. water supply practice. A. E. Kelso. il diags Am Water Works Assn J 34:984-1034 Jl '42

Virginia section, A.W.W.A. annual meeting, Roanoke. Water Works & Sewerage 89:31-6 Ja '42

Water and sewer extensions for a rapidly growing village, Wayne, Michigan. P. E. Brender. il Pub Works 73:22-3 S '42

Waterworks and sewerage reference and data section. il diags Water Works & Sewerage 89:sup1-279 Je '42

See also

Aqueducts
Dams
Filters and filtration
Filtration plants
Fire service (water supply)
Hydrants
Intakes
Pumping stations
Pumps
Reservoirs
Standpipes
Water companies
Water departments
Water distribution
Water pipes
Water purification
Water supply
Water supply engineering

Accounting

Accounting organization of the North Jersey water district. M. M. McLaughlin. Am Water Works Assn J 34:383-8; Discussion. J. E. Garratt. 388-9 Mr '42

Cost accounting for water utilities. R. M. Sedgwick. Am Water Works Assn J 34:564-8 Ap '42

How the examiner looks at the water works. F. B. Thomas. Am Water Works Assn J 34:1533-7 O '42

Relation between the water plant superintendent and the accountant. O. K. Jensen. Am Water Works Assn J 34:849-56 Je '42

Bibliography

Abstracts of water works literature. Published in monthly numbers of Journal of the American water works association

American water works association publications. Am Water Works Assn J 33:2298A-2298D D '41

Information on water and sewage works problems; where to find it; revised. L. H. Enslow. Water Works & Sewerage 89:sup17-18 Je '42

Papers scheduled at section meetings during 1941. Am Water Works Assn J 33:2237-50 D '41

Waterworks digest. Published in monthly numbers of Public works

Combination with electric plants

Jonesboro kills two birds with one stone; elevated water tank reduces pumping load on power plant. L. M. Rebsamen. il Water Works & Sewerage 89:24-7 Ja '42

Jonesboro's water works, a successful business; supplies electricity, water and sewerage service. L. M. Rebsamen. Am Water Works Assn J 34:1496-1502 O '42

16½ year operating record; Diesel-powered Carthage, Mo. water and electric plant. il Diesel Power 20:893-5 N '42

Costs

Evaluating the economy of higher pump efficiencies. W. F. Schaphorst. chart Water Works & Sewerage 89:406 S '42

Design

Conservation of critical materials in the design of the South Distrct filtration plant. F. G. Gordon. Am Water Works Assn J 34:1381-9 S '42

Design of the chemical building of the South District filtration plant in Chicago. P. Hansen. Am Water Works Assn J 34:1390-6 S '42

South District filtration project, Chicago; design, problems and solutions. il plans Eng N 128:999-1005 Je 18 '42

Directories

Directory of Canadian waterworks systems; reference data. Water & Sewage 80:38-113+ Je '42

Membership directory, committees, constitution and by-laws, American water works association. Am Water Works Assn J 34: 1-178, sup 1-58 pt 2 Je '42

Emergency problems

Chlorination equipment for emergency use. H. A. Faber. bibliog il Water Works & Sewerage 89:sup163-5 Je '42; Same cond. Can Eng W & S 79:21-2+ N '41

Emergencies at waterworks plants. Eng N 128:428 Mr 12 '42

Emergency water supply pumping with fire engines; drought relief in Hudson, N.Y. J. M. Wardle. il plan Pub Works 73:14-16 Ag '42

Mobile power unit for emergency needs. il Eng N 129:560 O 22 '42

Report of the committee on water works emergencies. N E Water Works Assn J 55: 598-625 bibliog(p618-19) D '41

Water works defense. D. S. Thomas; H. B. Foote. Am Water Works Assn J 33:1866-8 N '41

See also

Waterworks—War measures

Employees

Administrative problems of water works in wartime. K. K. King. Am Water Works Assn J 34:1193-6 Ag '42; Excerpts. Eng N 129:102 Jl 16 '42

Licensing dangers. J. E. Young. Water Works & Sewerage 89:180-1 Ap '42

Organization and training of water main emergency repair crews and auxiliary personnel assigned to emergency water service duties. Am Water Works Assn J 34: 803-22 Je '42

Tenure of office for water and sewage works operators; act protecting them against unjust removal passed in New Jersey. Can Eng W & S 79:30 N '41

Training water works operators. I. M. Glace. Water Works & Sewerage 89:136-9 Mr '42

Equipment

Amendments to preference rating order P-46. Am Water Works Assn J 34:168-73 Ja '42

Application for preference rating, form PD-1A. Am Water Works Assn J 34:464-7 Mr '42

Applications for project ratings; with forms PD-200 and PD-200A. Am Water Works Assn J 34:654-60 Ap '42

Classified index of products used in the water works and sewerage fields. Water Works & Sewerage 89:sup7-16 Je '42

Current supply problems; securing equipment and supplies in wartime. E. F. Dugger; G. L. Fugate; M. C. Smith. Am Water Works Assn J 34:1362-6 S '42

Engineering and economic problems involved in a small waterworks system, Port Lambton, Ont. G. A. Macdonald. plans Water & Sewage 80:20-1+ O '42

Enslow continuous stability indicator. R. S. Phillips. il diags Water Works & Sewerage 89:99-101 Mr '42

Equipment for waterworks service. il diags Eng N 128:sup132-4+ Je 18 '42

WATERWORKS—Equipment—*Continued*

Experience with St Paul softening plant. L. N. Thompson. il plan Civil Eng 12:603-5 N '42

High-speed water softening process makes its municipal debut; Spiractor installation, Teutopolis, Ill. A. Van Praag, jr. flow diag il Eng N 129:442-4 S 24 '42

Installing and operating a settling basin baffle system. H. M. Frye. il diags Pub Works 72:16-18 D '41

Lubrication of under-water bearings; flocculator in water works plant; abstract. W. Yegen. Pub Works 73:18 O '42

Method of making application for preference ratings and authority to construct; preference rating order P-46 as amended Oct. 10, 1942. Am Water Works Assn J 34:1717-33 N '42

New Lake Erie water supply system of Toledo. F. R. Hawkins. il Water Works & Sewerage 89:165-8 Ap '42

Ozonation at Whiting, Ind.; with cost data. J. F. Bartuska. flow diag il Am Water Works Assn J 33:2035-50 N '41

Priorities for water works and how to get them. Pub Works 72:38-9 D '41

Priorities letter no. 5 issued by Wallace and Tiernan co. Water Works & Sewerage 89:390 S '42

Products index, buyer's guide; with addresses of Canadian manufacturers and agents of sewerage and waterworks equipment. Water & Sewage 80:131-9 Je '42

Saving critical materials; abstract. F. G. Gordon. Eng N 129:101-2 Jl 16 '42

Simple solution feeder for small flows. E. E. Wolfe. diag Water Works & Sewerage 89:338 Ag '42

Soda-ash feed problem and a solution. E. A. Dyer. Water Works & Sewerage 89:377 S '42

South District filtration project, Chicago; chemical handling facilities; instruments for operating control. diags Eng N 128:1014-18 Je 18 '42

12.10; new scheme of allocation classification symbols as applied to water works and sewage requirements in Canada. Water & Sewage 80:18-19+ Jl '42

Wartime supply problems as they affect public utilities. M. J. McHenry. Water & Sewage 80:42-3, 114 Ap '42; Same. Am Water Works Assn J 34:829-35 Je '42

Water conditioning by flocculation. S. L. Tolman. bibliog diag Am Water Works Assn J 34:404-11 Mr '42

Waterworks products and services; classified by products, company names, addresses, trade names. Eng N 128:sup149-99 Je 18 '42

See also

Filtration plants
Pumping stations

Extension policies

Financing water mains. W. P. Melley. N E Water Works Assn J 56:136-41; Discussion. 141-51 Je '42

Methods of financing water main extensions in California. M. S. Jones. Am Water Works Assn J 34:555-60 Ap '42

Problems and limitations in the installation of water main extensions to suburban areas. M. B. Whitaker. Am Water Works Assn J 34:561-3 Ap '42

Water main extension policies in Wisconsin. P. A. Reynolds. Am Water Works Assn J 34:544-54 Ap '42

Extension problems

Administrative problems of water works in wartime. H. H. Brown. Am Water Works Assn J 34:1189-91 Ag '42; Excerpt. Eng N 129:102-3 Jl 16 '42

Administrative problems of water works in wartime. L. G. Lenhardt. Am Water Works Assn J 34:1196-1201 Ag '42; Excerpts. Eng N 129:103 Jl 16 '42

San Diego faces 1960's problems today; water supply, sewage disposal, housing, traffic. il Eng N 129:110-13 Jl 16 '42; Abstract. Water & Sewage 80:26+ O '42

Finance

Financing water mains. W. P. Melley. N E Water Works Assn J 56:136-41; Discussion. 141-51 Je '42

How to make a small water works self sustaining. J. M. Holladay. Am Water Works Assn J 34:390-401 Mr '42

Jonesboro's water works, a successful business; supplies electricity, water and sewerage service. L. M. Rebsamen. Am Water Works Assn J 34:1496-1502 O '42

Methods of financing water main extensions in California. M. S. Jones. Am Water Works Assn J 34:555-60 Ap '42

Problems and limitations in the installation of water main extensions to suburban areas. M. B. Whitaker. Am Water Works Assn J 34:561-3 Ap '42

State engineering aid to New Mexico municipalities. W. C. Powell. Am Water Works Assn J 34:56-8 Ja '42

Water charges to municipalities in the Boston metropolitan area by the Metropolitan district commission. K. R. Kennison. N E Water Works Assn J 55:522-49; Discussion. 550-60 D '41

Water main extension policies in Wisconsin. P. A. Reynolds. Am Water Works Assn J 34:544-54 Ap '42

Whassamatter with the water queries fewer; story of rates, records, modern water treatment, metering and commission management in a small city, Fergus Falls, Minn. J. E. Young. il Water Works & Sewerage 89:383-7 S '42

Why of Waukesha's record in war utility operation. A. P. Kuranz. il Water Works & Sewerage 89:72-4 F '42

Insurance requirements

Machinery breakdown insurance. A. F. Graham. Am Water Works Assn J 33:2192-200 D '41

Interconnection

Waterworks interconnection, the latest war development. Pub Util 29:644-5 My 7 '42

Laws and regulations

City water supply; licensing by State health department of person in charge; city of Hoboken. Pub Health Rep 57:1359-60 S 4 '42

Current law on sabotage of water works. Am Water Works Assn J 33:sup8+ N '41

Maintenance and repair

Emergency repair of distribution systems. W. V. Weir. Am Water Works Assn J 34:1205-10 Ag '42; Same. Water Works & Sewerage 89:349-51 Ag '42; Same, with diags. Water & Sewage 80:24-5+ Ag '42; Abstract. Eng N 129:99-100 Jl 16 '42; Discussion. B. W. Cullen. Am Water Works Assn J 34:1210-13 Ag '42

Gate valves; their care and maintenance. R. W. Esty. il Water Works & Sewerage 89:238-40 Je '42

Good and bad practices in tank maintenance. W. B. Davis. Am Water Works Assn J 34:1552-8 O '42; Same. Water Works & Sewerage 89:438-40 O '42

Maintenance of centrifugal pumps. V. C. Lischer. il Am Water Works Assn J 34:200-20 F '42; Same. Water Works & Sewerage 89:83-91 F '42

Maintenance of control equipment in water purification works. A. A. Wood. Am Water Works Assn J 34:237-42; Discussion. R. A. McQuade. 242-6 F '42

Maintenance of waterworks equipment. S. L. Rogers. il Water Works & Sewerage 89:sup109-10 Je '42

Metallizing as a method of water works maintenance. C. E. Palmer. il Water Works & Sewerage 89:391-6 S '42; Same cond. Am Water Works Assn J 34:1374-80 S '42; Excerpts. Water & Sewage 80:20+ D '42; Abstract. Eng N 129:102 Jl 16 '42

Repairing for defense. L. R. Howson. Am Water Works Assn J 34:793-802 Je '42

WATERWORKS—Maintenance and repair—*Continued*

Repairs in the small water works. G. A. Rhoads. Water Works & Sewerage 89:201-4 My '42

See also

Waterworks—Emergency problems

Management

Administrative problems of water works in wartime. H. H. Brown and others. Am Water Works Assn J 34:1189-1204 Ag '42

Bourne water district of Monument Beach, Mass. C. J. Crump. il Water Works & Sewerage 89:434-7 O '42

Good practice in water works management. W. R. LaDue. Am Water Works Assn J 34:1483-8 O '42

How to make a small water works self sustaining. J. M. Holladay. Am Water Works Assn J 34:390-401 Mr '42

Jonesboro's water works, a successful business; supplies electricity, water and sewerage service. L. M. Rebsamen. Am Water Works Assn J 34:1496-1502 O '42

Ohio section's fourth conference on water works management. J. S. Gettrust. il Water Works & Sewerage 89:266-8 Je '42

Omaha water works, a successful business. W. S. Byrne. Am Water Works Assn J 34:1503-10 O '42

Relation between the water plant superintendent and the accountant. O. K. Jensen. Am Water Works Assn J 34:849-56 Je '42

Soliloquy on management of waterworks. D. R. Taylor. il Am Water Works Assn J 34:1-10 Ja '42; Same. Water Works & Sewerage 89:37-41 Ja '42

Sound management and the qualifications of a good superintendent. D. L. Maffitt. Am Water Works Assn J 34:1489-95 O '42

Survey of billing and collection practices of cities of 100,000-200,000 population. G. F. Hughes. Am Water Works Assn J 34:1527-32 O '42

Teaching plant operation to sanitary engineers. G. E. Symons. bibliog Water Works & Sewerage 89:445-7 O '42

Wartime waterworks problems; discussion. Water & Sewage 80:93-7 Ap '42

Whassamatter with the water queries fewer; story of rates, records, modern water treatment, metering and commission management in a small city, Fergus Falls, Minn. J. E. Young. il Water Works & Sewerage 89:383-7 S '42

Why of Waukesha's record in war utility operation. A. P. Kuranz. il Water Works & Sewerage 89:72-4 F '42

See also

Water meters

Municipal ownership

Census of U.S. municipal water softening plants. H. M. Olson. Am Water Works Assn J 33:2153-91 D '41

Legal responsibility of Minnesota municipalities for polluted water. O. C. Peterson. Am Water Works Assn J 34:37-52 Ja '42

Municipal water charges to industrial users. A. C. King. N E Water Works Assn J 56:133-5 Je '42

Omaha water works, a successful business. W. S. Byrne. Am Water Works Assn J 34:1503-10 O '42

Power

Diesels in water works plants; how much fuel do they consume? W. F. Schaphorst. il Water Works & Sewerage 89:140-1 Mr '42; Correction. 89:181 Ap '42

Modern turbine-driven units fit variable-load pumping systems. R. Carter. flow diags il Power 86:550-2 Ag '42

Protection

Chlorination of water; protection of water plants; A.W.W.A. board of directors resolutions. Am Water Works Assn J 34:468-72 Mr '42

Eight-point program for water supply protection. Water Works & Sewerage 88:569 D '41

Guarding water works property. W. J. Scott; H. U. Fuller; W. W. Hurlbut. Am Water Works Assn J 34:1163-72 Ag '42

Invisible light used to fight sabotage. R. E. Appel. diags Water Works & Sewerage 89:260 Je '42

Organization for guarding waterworks property. W. J. Scott. Water & Sewage 80:28+ Ag '42

Protection of waterworks against sabotage and bomb damage; use of concrete-masonry units. il diags Water & Sewage 80:21-2 Ag '42

Protective and remedial measures for sanitary and public health engineering services; progress report of the national committee of the Society, on civilian protection in war time. diags Am Soc C E Proc 68:108-21 Ja '42; Discussion. 68:1013-20 Je '42

Wartime protection of water supply systems. J. D. Lewin and M. J. Popper. il diag Pub Works 73:30, 32-4 Ja; 13-20, 41-3 F; 13-16 Mr '42

Washington's water supply protected with steel fence. il Water Works & Sewerage 89:49 Ja '42

Water supply and national defense; abstract. F. H. Waring. Am Water Works Assn J 34:437-9 Mr '42

Water supply facilities and national defense. J. E. Hoover. Am Water Works Assn J 33:1861-5 N '41

See also

Water works—War measures

Records

How the examiner looks at the water works. F. B. Thomas. Am Water Works Assn J 34:1533-7 O '42

Service

Service shooting; wherein a friend is made when a corroded service is saved. L. Trentlage. il Water Works & Sewerage 89:248-50 Je '42

Statistics

Census of U.S. municipal water softening plants. H. M. Olson. Am Water Works Assn J 33:2153-91 D '41

Storeyards

Modern storeyard and garage facilities; adjunct to the water works system of Akron. W. R. La Due. il plan Water Works & Sewerage 89:374-7 S '42

War measures

Administrative problems of water works in wartime. H. H. Brown and others. Am Water Works Assn J 34:1189-1204 Ag '42

Air-raid organization measures for water supply protection; developed by Chicago's bureau of engineering. il diags Eng N 128:990-3 Je 18 '42

Air raid wardens not permitted to tamper with water system operation; meeting of New Jersey section of the American water works association. Eng N 128:515 Ap 2 '42

A.W.W.A. objectives, 1942. Am Water Works Assn J 34:1295-7 S '42

A.W.W.A.'s recommended procedure for protection against sabotage. Water and Sewage 80:21 F '42

A.W.W.A's. wartime conference and 62d annual meeting, Chicago, June 21-25. Water Works & Sewerage 89:330-7, 399-403 Ag-S '42

Bristol civil defense: repairs to water services; abstract. R. W. Melvin. Am Water Works Assn J 34:433-4 Mr '42

Can American water systems provide adequate civilian defense? with particular reference to fire service in vicinity of mains damaged by bombs. K. J. Carl. Water Works & Sewerage 89:194-7 My '42

Chicago civilian defense plans for water safety control. A. E. Gorman. Am Water Works Assn J 34:1343-56 S '42

Communities consider problems of war-caused water shortage possibilities. Eng N 128:445 Mr 19 '42

WATERWORKS—War measures—*Continued*

Coordinating the fire service; abstract. P. C. Charnock. Water Works & Sewerage 89:131-2 Mr '42

Current supply problems; securing equipment and supplies in wartime. E. F. Dugger; G. L. Fugate; M. C. Smith. Am Water Works Assn J 34:1362-6 S '42

Defense training for water works operators. S. S. Anthony, ed. 158p pa $1 Maine water utilities assn, 12 Williams st, Augusta, Me. '41

Developing an emergency canteen for the Auburn water district. E. L. Wincapaw. Water Works & Sewerage 89:178-9 Ap '42

Effect of the war on waterworks operations in Canada. R. L. Dobbin. Water Works & Sewerage 89:388-9 S '42

Effects of air attack upon utility and other structures. W. D. Binger. Am Water Works Assn J 34:1328-34 S '42

Emergency disinfection of public water supplies and mains; abstract and discussion. H. W. Streeter. Water Works & Sewerage 89:306-7 Jl '42

Experience in civilian defense training; Racine water department. W. A. Peirce. il Water Works & Sewerage 89:339-40 Ag '42

Greater Vancouver water district mutual aid plan. W. Powell. Am Water Works Assn J 34:1588-90 O '42

Guarding water supply properties; New England water works association meeting. Water Works & Sewerage 89:173-5 Ap '42

Guarding water works property. W. J. Scott; H. U. Fuller; W. W. Hurlbut. Am Water Works Assn J 34:1163-72 Ag '42

Honolulu wartime water works activity. F. Ohrt. il Am Water Works Assn J 34:1141-62 Ag '42

Investigations of water works protection in Ohio. W. H. Knox. Am Water Works Assn J 34:1357-61 S '42

Is your distribution system ready for all wartime emergencies? C. Inglee. il diag Can Eng W & S 79:16-18+ N '41; [cont as] Water & Sewage 80:42-5 Ja '42

Jersey completes water facilities pool plan. Eng N 129:395 S 17 '42

Maintenance and operation of waterworks in wartime. R. E. Thompson. Water & Sewage 80:21+ My '42

Maintenance of water supplies under war conditions. Pub Works 73:29-30, 32 Ag '42

Mutual aid plan at work. H. H. Potter; E. Devendorf; J. H. Murdoch, jr. Am Water Works Assn J 34:1173-88 Ag '42; Abstract. Eng N 129:100-1 Jl 16 '42

Mutual aid plan for water supply systems of Westchester county, N.Y. J. C. Harding. il Water Works & Sewerage 89:190-3 My '42

New York state mutual aid plan for water service in case of emergencies. A. F. Dappert. Am Water Works Assn J 34:189-99 F '42

Operation of distribution systems under bombing conditions. R. Bennett. Water Works & Sewerage 89:261-5 Je '42

Organization and training of water main emergency repair crews and auxiliary personnel assigned to emergency water service duties. Am Water Works Assn J 34: 803-22 Je '42

Organization for guarding waterworks property. W. J. Scott. Water & Sewage 80:28+ Ag '42

Organizing an emergency water works repair unit; Auburn, Maine. H. J. Cook. Water Works & Sewerage 89:177-8 Ap '42

Protection of public water supplies, a symposium; abstract by E. S. Chase. N E Water Works Assn J 56:38-52 Mr '42

Protection of water supplies during emergencies. W. L. Mallmann. Water Works & Sewerage 89:361-2 Ag '42

Protection of waterworks against sabotage and bomb damage; use of concrete-masonry units. il diags Water & Sewage 80:21-2 Ag '42

Protective and remedial measures for sanitary and public health engineering services; second progress report of the National committee of the society, on civilian protection in war time. Am Soc C E Proc 68:951-63 Je '42

Public water supply in the civilian defense program. R. E. Tarbett. N E Water Works Assn J 56:221-9 Je '42

Should chlorine residuals be carried in all distribution systems as a wartime protection measure? diag Water & Sewage 80: 24+ Mr '42

Some physical effects of bombing. H. G. Baity. diags Am Water Works Assn J 34:513-22 Ap '42

Special defense session of the New Jersey section, American water works association. H. A. Faber. Water Works & Sewerage 89:169-70 Ap '42

State emergency plan of the commonwealth of Massachusetts. A. D. Weston. maps N E Water Works Assn J 55:489-508; Discussion. 508-15 D '41

War and water rates. R. Newsom. Am Water Works Assn J 34:1511-15 O '42

War demands force expansion of water supply systems throughout Nation. Eng N 128: 519-20 Ap 2 '42

War production policies and water works practices. J. A. Krug. Water Works & Sewerage 89:292-6; Discussion. 296-9 Jl '42

Wartime economy and operation of water works; abstract. E. G. B. Gledhill and A. W. H. McCanlis. Am Water Works Assn J 34:1261-2 Ag '42

War time possibilities of water supply contamination; abstract. H. A. Faber. Water Works & Sewerage 89:307 Jl '42

Wartime protection of water supply quality; statement by American water works association committee. Am Water Works Assn J 34:1737-8 N '42

Wartime protection of water supply systems. J. D. Lewin and M. J. Popper. il diag Pub Works 73:30, 32-4 Ja; 13-20, 41-3 F; 13-16 Mr '42

Wartime protection of waterworks; experiences in Great Britain. R. E. Thompson. il Water & Sewage 80:25-6+ Je '42

Wartime supply problems as they affect public utilities. M. J. McHenry. Water & Sewage 80:42-3, 114 Ap '42; Same. Am Water Works Assn J 34:829-35 Je '42

Wartime water works maintenance in Britain. A. C. Wildsmith. Am Water Works Assn J 34:179-88 F '42; Same. Water Works & Sewerage 89:65-8 F '42

Wartime waterworks problems; annual meeting of the A.W.W.A. Chicago, June 21-25. Water & Sewage 80:13-17+ Jl '42; Eng N 129:3, 99-103 Jl 2, 16 '42

Water, a critical war material. A. E. Gorman. Water Works & Sewerage 89:431-2 O '42

Water and war. G. E. Symons. il Water & Sewage 80:22-4+ Je '42

Water service in wartime London. H. Berry. Am Water Works Assn J 34:1298-1327, 1689-91 S, N '42

Water supply co-ordinator of Maine; abstract. H. H. Potter. Water Works & Sewerage 89:105-6 Mr '42

Water supply defense program; Portland water district. J. A. Jackson. Water Works & Sewerage 89:107-10 Mr '42

Water supply in air raids. il Eng N 128: 192-3 Ja 29 '42

Water supply in war time. J. Bowman. N E Water Works Assn J 55:483-8 D '41

Water supply protection in civilian defense. R. E. Tarbett. Am Water Works Assn J 34:1335-42 S '42

Water utility problems today contrasted with last war period. R. Newsom. Eng N 129:478 O 8 '42

Water works operations under emergency conditions. H. E. Jordan. N E Water Works Assn J 55:516-21 D '41

See also

Waterworks—Emergency problems

Waterworks—Protection

WATT hour meters

Computing horsepower from revolving watt-hour meters. Water Works & Sewerage 89: sup192-3 Je '42

How to choose current transformers and meters for wide range loads. E. C. Wentz. Elec W 117:672 F 21 '42

New current coils convert meters. il Elec W 118:472 Ag 8 '42

Porcelain meter base replaces metal. il Elec W 117:1700 My 16 '42

Watt-hour meter jewel maintenance. il Elec W 117:1372+ Ap 18 '42

Watthour meters; savings of critical materials through utilization of alternates. G. R. Sturtevant. il Gen Elec R 45:589-90 O '42

Failure

Meter failures guide REA to correctives. F. B. Scott. il maps Elec W 118:1086-7 O 3 '42

Manufacture

Materials handling emphasized in automatic machining line; General electric co. frame for watt-hour meter. il Steel 109:64, 67 N 17 '41

Seventy-seven machining operations performed by automatic multiple-station equipment. il Mach 48:155 D '41

Testing

Checks meters for ground and operation. il diag Elec W 117:832 Mr 7 '42

Electronic watt-hour meter tester. il Electronics 15:82+ Ap '42

Meter insulation tested on table rails. C. Iatonna. diag Elec W 117:1222 Ap 4 '42

New application of light to meter testing. M. W. Hime. Light & Lighting 35:86 Jl '42

Photo-electric device speeds meter test. il diag Elec W 117:114 Ja 10 '42

WATTMETERS

Maintenance and servicing of electrical instruments. J. Spencer. il diags Instruments 14:394-6, 398-408 D '41

Meter single-phase on 3-phase system. O. E. Stamm. diags Elec W 118:316 Jl 25 '42

Symmetrical component currents; a 2-wattmeter method of measurement. G. W. Stubbings. Electrician 127:255-6 O 31 '41

Theoretical possibilities in an internally heated bimetal type of thermal watt-demand meter. E. Lynch. bibliog il diags Elec Eng 61:Trans 764-70 O '42

Var-wattmeter aids capacitor studies. diags Elec W 117:1026 Mr 21 '42

WAUKESHA, Wisconsin

Water supply

Why of Waukesha's record in war utility operation. A. P. Kuranz. il Water Works & Sewerage 89:72-4 F '42

WAVE mechanics

Approximate solution of Schrödinger equations by a least squares method. A. A. Frost. J Chem Phys 10:240-5 Ap '42

Contacts between metals and between a metal and a semiconductor. H. Y. Fan. diag Phys R 62:388-94 O 1 '42

Degeneracies among terms of a configuration of equivalent electrons. O. Laporte and J. R. Platt. Phys R 61:305-8 Mr 1 '42

Electromagnetic properties of nuclei in the meson theory. S. T. Ma and F. C. Yu. bibliog Phys R 62:118-26 Ag 1 '42

Elliptic cylinder and spheroidal wave functions; including tables of separation constants and coefficients. J. A. Stratton and others. 127p bibliog(px-xii) pa $1 Wiley '41

Exchange tensor forces in heavy nuclei. G. M. Volkoff. Phys R 62:134-6 Ag 1 '42

Fine structure of nuclear energy levels on the alpha-model. C. Kittel. bibliog Phys R 62:109-17 Ag 1 '42

Forbidden transitions in β-decay and orbital electron capture and spins of nuclei. R. E. Marshak. bibliog Phys R 61:431-49 Ap 1 '42

Interaction between a molecule and a metal surface. E. J. R. Prosen and R. G. Sachs. Phys R 61:65-73 Ja 1 '42

Magnetic scattering of neutrons. M. Hamermesh. Phys R 61:17-18 Ja 1 '42

Matter waves and electricity. C. Lanczos. bibliog Phys R 61:713-20 Je 1 '42

Mechanism for self-diffusion in metallic copper. H. B. Huntington and F. Seitz. bibliog Phys R 61:315-25 Mr 1 '42

Near infra-red spectra of linear Y_2X_2 molecules. W. H. Shaffer and A. H. Nielsen. J Chem Phys 9:847-52 D '41

Partition functions of molecules with internal torsion; single asymmetric top attached to rigid framework. D. Price. J Chem Phys 9:807-15 N '41; Correction. 10:80 Ja '42

Practical method for the solution of certain problems in quantum mechanics by successive removal of terms from the Hamiltonian by contact transformations of the dynamical variables. L. H. Thomas. J Chem Phys 10:532-7 Ag '42

Practical method for the solution of certain problems in quantum mechanics by successive removal of terms from the Hamiltonian by contact transformations of the dynamical variables; power series in a coordinate and its conjugate momentum; the anharmonic oscillator by perturbation theory. L. H. Thomas. J Chem Phys 10: 538-45 Ag '42

Pseudoscalar meson field with strong coupling. W. Pauli and S. M. Dancoff. bibliog Phys R 62:85-108 Ag 1 '42

Quantum mechanical investigation of the orientation of substituents in aromatic molecules. G. W. Wheland. bibliog Am Chem Soc J 64:900-8 Ap '42

Rydberg corrections for *D*-terms in He I. L. Pincherle. Phys R 61:156-7 F 1 '42

Self-consistent field, with exchange, for Si IV and Si V. W. Hartree, D. R. Hartree and M. F. Manning. bibliog Phys R 60:857-65 D 15 '41

Self-consistent treatment of the vacancy mechanism for metallic diffusion. H. B. Huntington. diags Phys R 61:325-38 Mr 1 '42

Tensor forces and heavy nuclei. G. M. Volkoff. bibliog Phys R 62:126-33 Ag 1 '42

Tensor forces and the theory of light nuclei; properties of H^3 and He^4. E. Gerjuoy and J. Schwinger. Phys R 61:138-46 F 1 '42

Term formulae for the configuration d^5. O. Laporte. bibliog Phys R 61:302-4 Mr 1 '42

Thermodynamic properties of binary solid solutions; phase separation. E. N. Lassettre and J. P. Howe. bibliog J Chem Phys 9: 801-6 N '41

Vibration-rotation energies of planar ZXY_2 molecules; the quantum-mechanical Hamiltonian and the energy values. S. Silver. J Chem Phys 10:565-74 S '42

Vibration-rotation energies of polyatomic molecules. H. H. Nielsen. Phys R 60:794-810 D 1 '41

Wave mechanics and chemistry. Chem & Ind 61:187-8 Ap 25 '42

See also

Quantum theory

WAVE motion, Theory of

Waves, a mathematical account of the common types of wave motion. C. A. Coulson. 156p $1.50 Interscience publishers, 215 4th av, New York '41

WAVES

See also

Electric waves
Light
Radiation
Radio waves
Sound waves
Ultrasonic waves
Vibration

WAVES (navy). See Women's naval reserve

WAXED paper. See Paper, Waxed

WAXES

Hydrocarbon waxes; abstract. L. Ivanovszky. Paint Oil & Chem R 103:9 D 18 '41

Italian esparto wax; results of solvent extraction. Chem Age (Lond) 47:338 O 17 '42

Recovery of fats, waxes, resins, and turpentine from wood. M. W. Bray. bibliog Paper Tr J 115:41-2 S 3 '42

WAXES—*Continued*

Vegetable oils that U.S. needs from American tropics. K. S. Markley. Oil Paint & Drug Rep 142:7+ Ag 24 '42

See also

Beeswax
Candelilla wax
Carnauba wax
Cotton—Wax content
Floor wax
Paraffin
Sealing wax

Analysis

Determining the oil content of paraffin waxes. R. Lee and V. A. Kalichevsky. bibliog diags Ind & Eng Chem Anal ed 14:767-9 O 15 '42

Statistics

Oils, fats, and waxes. Published in weekly numbers of Oil, paint and drug reporter

Shipments of ouricuri wax from Brazil since 1937. For Comm W 6:23 Ja 3 '42

WAYNE, Joseph, jr. 1873-1942

Sketch. Bankers M 144:542-3 Je '42

WAYNE, Michigan

Water supply

Water and sewer extensions for a rapidly growing village. P. E. Brender. il Pub Works 73:22-3 S '42

WAYNE university

Wayne university of Detroit gives formal acceptance to rubber and plastics project proposed by Detroit rubber group. Rubber Age 51:58-9 Ap '42

WEALTH

Distributive justice; the right and wrong of our present distribution of wealth. J. A. Ryan. 3d ed rev 357p bibliog(p6) $4 Macmillan '42

See also

Capital
Capitalists and financiers
Cost of living
Economic conditions
Economics
Income
Income tax
Money
Profit
Success

WEAPONS

See also

Firearms
Rifles

WEAR of metals. See Metals—Wear

WEATHER

Aleutian weather. F. Thone. Science 96: sup12 Jl 3 '42

Climate makes the man. C. A. Mills. 320p $3 Harper '42

Month of March; turbulence of March weather. Science 95:sup10 Ap 3 '42

Weather and the ocean of air. W. H. Wenstrom. 484p $4.50 Houghton '42

Weather study. D. Brunt. 215p bibliog(p211) $2.25 Ronald press '42

See also

Atmospheric temperature
Droughts
Humidity
Meteorology
Rain and rainfall
Storms
Winds

WEATHER forecasting

Analyzing the degree of randomness in weather data. R. E. Kennedy. Civil Eng 12:34-6 Ja '42

Astronomy, maps, and weather. C. C. Wylie. 449p $3 Harper '42

Menacing long series of droughts; solar electron theory. H. P. Gillette. Roads & Sts 84:48+ N '41; Same. Water Works & Sewerage 88:571-7 D '41

Preliminary studies in seasonal weather forecasting. R. H. Weightman. 99p bibliog(p61-3) U.S. Weather bur; 30c Supt. of doc. '41

Tropopause studies to aid long-range weather forecasting. H. Arctowski. Heat & Ven 39:23 Je '42

Weather forecasts; old-fashioned signs. Science 94:sup10 D 26 '41

See also

Radio meteorographs

WEATHER forecasts

Can the Meteorological service help to improve winter road maintenance? J. Patterson. il Roads & Bridges 80:39-40, 92+ O '42

Continuous weather recording provides refinery protection. N. Williams. il Oil & Gas J 40:59-60 N 27 '41

Operating an information service on winter road conditions; how weather forecasting data are used in Michigan. B. R. Downey. Roads & Bridges 80:118+ O '42

Sh! the weather; Bureau shrouds data with secrecy but has evolved machinery whereby loss to business can be averted. Business Week p16-17 My 9 '42

WEATHERING

Effect of fine aggregate on the durability of mortars. C. A. Hughes and K. A. Anderson. Am Soc T M Proc 41:987-1002 '41

Relative weather resistance of various porcelain enamels. W. N. Harrison and D. G. Moore. il Cer Ind 39:26-8 N '42

Weather resistance of porcelain-enameled iron structural units. W. N. Harrison and D. G. Moore. bibliog pls J Research Nat Bur Stand 28:735-54 Je '42

WEAVER, Robert Augustus, 1890-

Presentation of Robert Augustus Weaver for the honorary degree of Doctor of science. E. Holmes. por Am Cer Soc Bul 21:121-2 Jl 15 '42

WEAVING

Adding variety to pique fabrics. T. R. Hart. il Textile World 92:70-1 Jl '42

Center filling stop motion defects. H. E. Wenrich. il Rayon 23:283-4, 335-7 My-Je '42

Effective weave-room control. R. H. Rositzke. il Textile World 91:73-3+ D '41; 92:76-7 Ja '42

Imperfections in woven fabrics. T. Nelson. il Textile World 92:72-3 Ag '42

Interesting design possibilities; fabrics produced on hand-loom are duplicated on power machines. F. W. Sterling. il diags Textile World 92:100 Ag; 92-3 O '42

Mixed filling yarn and its problems. H. E. Wenrich. il Rayon 22:720-2; 23:25-6, 101-2+ D '41-F '42

Nylon in the weave room. L. Schlessinger. il Rayon 23:523-4 S '42

Quills of maximum diameter are necessary to efficient weaving; illustrations. A. King, jr. Textile World 91:94 N '41

Statistical methods in textile research; the design of weaving experiments. V. R. Main and L. H. C. Tippett. Textile Inst J 32: T209-20 N '41

Two sets of doups for 3-end leno. A. E. McKenna. il Textile World 91:90 N '41

Wartime beginnings of weaver's art in clothing, armor and weapons. J. Early. il Barron's 22:7 F 9 '42

Weave room is underground; windowless plant of Macon Textiles designed to provide uniform conditions. il Textile World 92:72-3 Jl '42

Why warp ends break in weaving. W. T. Schreiber. il Textile World 92:75 Ja '42

Wool characteristics in relation to Navajo weaving. J. O. Grandstaff. bibliog il pls diag U S Agric Tech Bul 790:1-36 '42

See also

Carpets
Cotton weaving
Indians of North America—Textile industry
Looms
Rayon weaving
Rugs
Silk weaving
Textile fabrics
Textile fibers
Woolen and worsted weaving

History

Man is a weaver. E. C. Baity. 334p bibliog (p324-6) $2.50 Viking press '42

WEAVING (handicraft)

Hand weaving and education. E. Mairet. 64p bibliog(p63-4) $2.75 Ryerson press '42

Hand-weaving as fashion source. W. B. Dall. il Textile World 92:70-1 Ja '42

Hand-weaving thrives in Santa Fe. F. Kutnewsky. il Textile World 91:74 D '41

Navajo rugs. F. Kutnewsky and C. Holbrook. il Comp Air M 47:6658-62 F '42

WEBB institute of naval architecture

Webb institute of naval architecture. L. J. Ballard. il J Eng Educ 32:719-21 My '42

WEBER, H. C. P. 1878-
Fathers and sons in chemistry. por News Ed 19:1405 D 10 '41

WEBER, H. Henry R. 1905-
Fathers and sons in chemistry. por News Ed 19:1405 D 10 '41

WEEDS
Sulfamic acid, a newcomer in the chemical field; use as weed killer. A. Perry. il(p507) Chem Ind 51:508 O '42
Sulfamic acid, an industrial review; herbicidal action. M. E. Cupery and W. E. Gordon. il Ind & Eng Chem 34:795 Jl '42
Weed control. W. S. Ball and others. (Ag. ext. service circ. 97) rev ed 111p College of agriculture, Univ. of California, Berkeley '40
Weed control; a textbook and manual. W. W. Robbins, A. S. Crafts and R. N. Raynor. 543p $5 McGraw-Hill '42
See also
Nut grass
Reservoirs—Weed removal

WEEK-end houses
Summer and week-end house on the south shore of Long Island; views, plan and construction outline. Arch Forum 75:320 N '41

WEEK idea in merchandizing. See Advertising campaigns—Special weeks

WEEKLY newspapers. See Newspapers—Weekly newspapers

WEEKLY rest day. See Rest days

WEIGHING
Automatic recording of mud weight prevents many drilling difficulties. il Oil & Gas J 41:37-8 Jl 9 '42
Automatic weighing of digester chip loadings. N. V. Edmonson. il diag Paper Ind 23:1097-9 F '42
Control of stockrooms, inventories, etc., by means of special weighing devices. H. I. Maycock. il Instruments 15:47+ F '42
Conveyors at scale cut errors and time. D. Berg. diag Factory Management 100:110+ S '42
Weigh to get quick counts; scales determine output of screw machine operators on piece work. R. F. Nortman and W. S. Hansen. il Factory Management 100:65-6 Jl '42
See also
Balances
Coal weighing
Scales

WEIGHING machines
Boom crane weight indicator increases speed, safety. il Marine Eng 47:140 My '42
Principles and operation of weight indicators. G. M. Stearns. Oil & Gas J 41:48 Jl 23 '42

WEIGHT
See also
Airplanes—Weight
Motor buses—Weight
Motor trucks—Weight

WEIGHT (physiology)
Computing scales for calculating percentage deviation from average weight. T. I. Edwards. Science 95:50-1 Ja 9 '42

WEIGHT lifting
Lifting heavy weights in defense industries; methods for conserving health of women workers. M. J. T. Mettert. il U S Women's Bur Special Bul 2:1-11 '41

WEIGHTING of rayon. See Rayon weighting

WEIGHTING of silk. See Silk weighting

WEIGHTS and measures
Machinery weights; data for estimating weights of ship machinery. E. A. Stevens, jr. Marine Eng 47:134-7 Ag; 156-9 S; 143-5 N; 167-8 D '42 (to be cont)
Methods of measurement. W. H. Cornetet. 133p pa 80c McKnight & McKnight, 109 W. Market st, Bloomington, Ill. '42
National standards of measurement. L. J. Briggs. bibliog Rs Mod Phys 11:111-20 Ap '39; Same. Engineering 153:304-5, 334-5 Ap 17-24 '42
Ready references for quickly calculating weights of aircraft materials. C. Dorsett. Aero Digest 40:184, 187 My '42
See also
Balances
Coal measurement
Conversion tables
Electric measurements
Gages
Measuring instruments
Specific gravity
Temperature—Measurement

Bibliography

Weights and measures; a selected list of publications of the National bureau of standards. U S Nat Bur Standards Letter Circ LC 666:1-7 '41

WEIGHTS and measures, National conference on. See National conference on weights and measures

WEIL'S disease
Leptospirosis icterohemorrhadica (Weil's disease); report of three cases; abstract. H. F. Deubel. J Ind Hygiene 24:sup34-5 F '42
Positive agglutination tests in suspected cases of Weil's disease. A. Packchanian. bibliog Pub Health Rep 56:2145-56 N 7 '41

WEINBERG, Sidney James, 1891-
Bosses $1-a-year men. por Business Week p7 F 21 '42

WEIRS
Niagara control weir; abstract. N. Marr and others. Eng N 129:536-7 O 22 '42
See also
Dams

WEIRS (measuring)
Flow of sulphite pulp slurries over weirs. R. P. Whitney and J. D. McNitt. Paper Tr J 115:33-5 Jl 30 '42
Metering flow; weirs and weir meters. diags Power 86:103 F '42
New gaging station for mountain streams; Forest Service installation combines San Dimas flume with two broad-crested weirs. H. G. Wilm. il diags Civil Eng 12:548-9 O '42
Practical hydraulics; weirs and gages. P. S. Wilson. diags Water Works & Sewerage 89:sup29-32 Je '42
Viscosity and surface tension effects on V-notch weir coefficients. A. T. Lenz. bibliog il diags Am Soc C E Proc 68:351-74 Mr '42; Discussion. 68:1033-4, 1186-98; 69:163-5 Je, S '42, Ja '43

WEISS, Soma, 1899-1942
Sketch. R. Fitz. Science 95:215-16 F 27 '42

WEISS, William Erhard, 1879-1942
Sketch. por Oil Paint & Drug Rep 142:4+ S 7 '42

WELCOME wagon service company
Door-to-door eclat. Business Week p68+ Jl 18 '42
Three men and 1,100 women run this business. Am Business 12:37 Ja '42

WELDERS
Certification of army and navy welders. W. R. Allen. il Aero Digest 39:164+ D '41
Control procedure of torch welding in aircraft. E. Dudley. bibliog diags Aeronautical Eng R 1:21, 23-5, 27 Jl '42
Engineering essentials for welders. H. M. Priest. il diags Welding J 21:230-51 Ap '42
Skin troubles in welding. il Iron Age 150:62D Jl 30 '42
Welders again; strike brings swift government wrath. Business Week p16 F 7 '42
Welding a peace; solution may be universal transfer card; controversy between Pacific Coast welders and the A.F.L. metal trades department. Business Week p69+ N 15 '41
Welding confab; transfer card proposed by Hillman to settle the issue. Business Week p58 N 22 '41
West Coast welders' strike. Monthly Labor R 54:662-4 Mr '42

Training

American welding society minimum requirements for training of welding operators. L. M. Dalcher. Welding J 20:781-3 N '41; Discussion. H. E. Lawrence. 20:844-5 D '41

WELDERS—Training—*Continued*

NYA trains welders. J. E. Ryckman. il Am Mach 86:875 Ag 20 '42

Talking helmets; apprentice welders at Caterpillar tractor co. receive instructions via telephone as they work. il Business Week p66 Ja 31 '42

Teaching men to use the product; Hobart brothers, welding equipment maker, teaches modern shop practice methods. il Am Business 12:32-3 My '42

Training new welders. A. Kidd. il Nat Safety N 46:22-3+ S '42

Training welding operators. il Ry Mech Eng 116:248-52 Je '42

Training welding operators for national defense. J. A. Wain. il Welding J 21:32-40 Ja '42

See also

Electric welders—Training

WELDING

Aircraft welding. L. S. Elzea. 121p $2 McGraw-Hill '42

Aircraft welding; composite of abstracts. Metals & Alloys 15:298+ F '42

Aircraft welding; strength of fusion welds; nomographic chart; reference book sheet. R. R. Wiese. Product Eng 13:119-20 F '42

Application of welding in the construction of the Chicago subway. G. S. Salter. il Welding J 21:165-9 Mr '42

Automotive welding. S. M. Spice, V. Fegley and L. M. Skidmore. Welding J 20:793-6 N '41

Broken, multi-edge tools reclaimed by welding; Suttonizing process. T. Sutton. il Iron Age 150:68-70 O 22 '42

Building-up and hardfacing in mill maintenance. S. D. Baumer. il diags Steel 111: 170, 172 S 14; 70, 72 S 21 '42

Can it be welded? locomotive and car parts on which welding of cracks and fractures is not permitted. Ry Mech Eng 116:257 Je '42

Cheat the scrap pile; reclamation of bus parts; San Antonio public service co. L. McInerny. il Bus Transportation 21:260-2 Je '42

Current developments in pipe-line welding. A. N. Kugler. il diags Oil & Gas J 41:182+ S 24 '42

Drawing and development for practical welding; how to overcome the simple distortion problems. F. W. Sykes. 72p $1.60 Pitman '41

Economies by welding. A. M. Portevin. Metal Prog 42:395-6 S '42

Economizer tube life doubled by welding. il diags Elec W 117:1837 My 30 '42

Fabricating all steel front end parts by welding. il diag Ry Mech Eng 116:80-1 F '42

Fabrication by welding in the railroad shop. il Ry Mech Eng 116:262-5 Je '42

Field for welding; ways in which the mechanical department can secure best results. L. E. Grant. il Ry Mech Eng 116: 241-6 Je '42

Fixture for welding rod and disk. J. Waitkus. diags Mach 48:138 Ja '42

General shop gas and a.c. arc welding and cutting. R. F. Jennings. 84p bibliog(p82) $1 Grosset & Dunlap, New York '42

Handy clamp for aligning pipe for tack-welding operations. diags Can Min J 63:16 Ja '42

How piping is welded for navy service. H. W. Hiemke and J. D. Bert. diags Heating-Piping 14:235-6 Ap '42

Joining practices for high-nickel alloys. Am Mach 86:902-4 Ag 20 '42

Jointing of metals by fusion; value of different methods of heat application. A. E. Richards. il Chem Age (Lond) 47:9-11 Jl 4 '42

Locomotive cylinder heads welded; with cost data. L. W. Sagle. il diags Am Mach 86: 937-9 S 3 '42

Low temperature welding process; Castolin Eutectic process. il Sheet Metal Worker 33: 23+ O '42

Low temperatures used in welding gray iron castings. R. D. Wasserman. il Foundry 70:127 O '42

Manual of instructions in welding and cutting. B. E. Rossi. 99p $1 McGraw-Hill '41

Master chart of welding processes. Metal Prog 42:240 Ag '42

Metal working. Metal Prog 42:732-4 O '42

Modern welding practice. A. D. Althouse and C. H. Turnquist. 412p $4 Goodheart-Willcox co, 2009 S. Michigan av, Chicago '42

Original revolving type boom jig speeds complicated work. H. J. Hibbett. il diag Welding J 21:16 Ja '42

Pipe-stoker parts salvaged by welding. diags Elec W 117:1857-8 My 30 '42

Piping; case for welded fittings vs. miter and intersection welding. G. F. Sherman. il diag Heat & Ven 39:42-5 Mr '42

Portable rollers turn cylinders for welding. il Factory Management 100:124 Jl '42

Practical kinks on how to make it. G. Sykes. il Welding J 20:800-1 N '41

Questions and answers on welding practices; help on problems relating to welding practices as applied to locomotive and car maintenance (cont). il diags Ry Mech Eng 115:531; 116:31-3, 78-9, 114-15, 227, 260, 317-18, 388-9, 432 D '41-Mr, My-Jl, S-O '42

Reducing machinery cost. R. Wagner. il diag Welding J 21:93 F '42

Regalvanizing welded joints. il Iron Age 148: 52 N 27 '41

Repairing by welding and brazing; Builders-Providence, inc., Providence. D. Duffney. il Factory Management 100:146-7 Ag '42

Revolving jigs at plant of Osgood co. for welding boom structures. il Steel 110:59 Ja 26 '42

Science and practice of welding. A. C. Davies. 436p $2.25 Macmillan '42

Ship chains made by fire welding and electric welding; S. G. Taylor chain co. il Mach 49:200-4 N '42

Simple blueprint reading; with particular reference to welding and welding symbols. 2d ed 146p 50c Lincoln electric co, 12818 Coit road, Cleveland '42

Snowplow repairs. A. Havens. il diag Am Mach 86:157 Mr 5 '42

Technical progress paces victory march. Steel 110:305-6, 308-9 Ja 5 '42

Travelling gantry for continuous welds. il Engineering 154:46 Jl 17 '42

Tubes combined with rolled shapes in structural design. H. S. Card. il diags Iron Age 149:56-9 My 21 '42

29th buyers reference number. il Am Mach 86:289-97 Ja 22 '42

War maintenance; welding and facing. il Coal Age 47:113-15 O '42

Wartime care of mine equipment; repaired by electric and acetylene welding and metallizing. E. Schweitzer. il Min Cong J 28:20-2 Jl '42

Welded socket. R. Wagner. diags Welding J 21:185 Mr '42; Same. Am Mach 86:391-2 Ap 30 '42

Welded strap ends; simplified design for brake and clutch bands. G. Johansson. diags Product Eng 13:262-5 My '42

Welded structures; causes of deformation and their correction. G. Johansson. il Product Eng 13:390-1 Jl '42

Welding. J. A. Moyer. 184p $2.25 McGraw-Hill '42

Welding aids mill maintenance. S. D. Baumer. il Steel 111:56-8, 60, 62 Jl 27 '42

Welding and cutting, 1941 and current trend. S. L. Hoyt. il Metals & Alloys 15:58-9 Ja '42

Welding and metal cutting, dealing with oxy-acetylene welding, electric arc and resistance welding, thermit welding, and oxygen cutting. E. Molloy, ed. 112p $2.50 Chemical pub. co. '42

Welding and metallizing mine equipment. E. Schweitzer. Coal Age 47:52+ Je '42

Welding as applied to locomotives. J. Partington. il Welding J 21:90-3 F '42

Welding, brazing and soldering; how to build your own welding equipment and use it effectively. 96p $1.25 Popular mechanics co, Chicago '41

Welding equipment and supplies. il Ry Mech Eng 116:273-7 Je '42

WELDING—*Continued*

Welding in maintenance; abstract. R. H. Clark. Automotive & Aviation Ind 86:21 F 1 '42

Welding jig for long structures. il Iron Age 148:58 D 18 '41

Welding jig holds metal boxes. J. E. Hyler. diag Am Mach 86:772-3 Jl 23 '42

Welding metallurgy. O. H. Henry and G. E. Claussen. 2v in 1 359p $1.50 Am. welding soc, New York '40

Welding of clad metals; abstract. G. Richter. Metals & Alloys 15:494+ Mr '42

Welding of piping. A. N. Kugler. il diags Heat & Ven 39:55-8 My; 51-4 Je; 59-63 Jl '42

What about the all-welded boiler? Delaware & Hudson boiler approaches end of five-year trial. il Ry Mech Eng 116:258-60 Je '42

What do the railroads weld? list of car and locomotive parts which are repaired by welding. il Ry Mech Eng 116:253-7 Je '42

See also

Aluminum—Welding
Brazing
Bridges—Welding operations
Bronze welding
Copper—Welding
Electric welding
Electric welding, Arc
Gas welding
Magnesium—Welding
Oxyacetylene welding
Piping (power plants)—Welding
Shipbuilding—Welding operations
Steel—Welding
Steel, Structural—Welding
Steel construction—Welding

Bibliography

Current welding literature. Welding J 21:46-7 Ja '42 [cont monthly]

Failures

How to avoid cracks in welds. A. K. Seemann. il diags Steel 110:78, 80 Ap 20 '42; Excerpt. Metals & Alloys 15:833 My '42

Prevention of cracks in welded light alloy steel. E. C. Rollason and A. H. Cottrell. Metal Prog 42:212+ Ag '42

Inspection

Infra-red photography of fusion welds. W. T. Tiffin. il Welding J 21:sup1-4 Ja '42

Inspecting aluminum welds. Metal Prog 42:258 Ag '42

Inspection of arc welded work. diags Engineer 173:254-6 Mr 20 '42

Inspection of copper welds. Metal Prog 42:102+ Jl '42

Recommended practices for inspection of fusion welding. Welding J 21:613-24 S '42

Visual inspection of arc welds. W. L. Warner. Welding J 21:682-3 O '42

See also

Welding—X ray inspection

Safety measures

Blue filter glass for aluminum and bronze welding. Mach 48:158 Ja '42

Control welding hazards. il Safety Eng 84:34-6 Jl '42

Protection for welding operators; protective lenses and clothing. B. C. Tracey. il Iron Age 149:67-9 Mr 26 '42

17 ways to prevent welding fires. Heating-Piping 14:164-5 Mr '42

Training new welders. A. Kidd. il Nat Safety N 46:22-3+ S '42

Symbols

Welding symbols adopted as standard by American welding society, 1941. Metal Prog 42:744 O '42

Terminology

Definitions of welding terms and master chart of welding processes. 32p 40c Am. welding soc, New York '42

Pushing the patois around; common terms used in welding shops. C. H. Jennings. Power Pl Eng 46:96 N '42

Testing

Control procedure of torch welding in aircraft. E. Dudley. bibliog diags Aeronautical Eng R 1:21, 23-5, 27 Jl '42

Non-destructive testing; modern electrical, magnetic and acoustical methods of studying welds, castings, etc. il diag Automobile Eng 31:448-50 D '41

Notch sensitivity of welds under repeated loading. H. L. Daasch. bibliog il diags Welding J 21:sup60-4 Ja '42

Quality control with sampling inspection; welding contacts for telephone equipment. C. S. Barrett. Mech Eng 64:361-4 My '42

Recommended practices for inspection of fusion welding (tentative). 23p 40c Am. welding soc, New York '42

Residual stress in butt-welded S.A.E. X4130 tubing. G. Sachs and T. Graham. il Welding J 21:sup122-5 Mr '42

Simple tension jig for testing single-riveted and spot-welded sheet specimens. N. C. Parrish. il diags Instruments 15:212-13 Je '42

Static and dynamic strength of structural steel welds. M. Roš. diags Welding J 21:sup254-6 My '42

Stress concentration factors in main members due to welded stiffeners. W. R. Cherry. il diags Welding J 20:sup603-8 D '41

Stress distribution in welded tube connections. F. L. Tocher. bibliog diags Welding J 21:sup125-8 Mr '42

Tee-bend test to compare the welding quality of steels. G. A. Ellinger, A. G. Bissell and M. L. Williams. pls diags J Research Nat Bur Stand 28:1-49 Ja '42; Same cond. bibliog Welding J 21:sup132-60 Mr '42

Ten years' progress in radiography. A. J. Moses. il diags Metal Prog 40:771-6 N '41

Testing of welds. H. N. Pemberton. Engineer 173:315-16 Ap 10 '42

Weldability as determined by ductility tests. H. Lawrence. bibliog diags Steel 110:78+ Ap 6 '42

Weldability, fusibility tests; a review of the literature to July 1, 1939. W. Spraragen and G. E. Claussen. diags Welding J 21:sup65-86 bibliog(250 references, sup85-6) F '42

Welded test jack speeds weld tests. A. F. Davis. il Power 86:342 Ap '42

Welding of light gage stabilized stainless steel. S. L. Rich. il diags Welding J 21:sup265-8 Je '42

See also

Electric welding—Testing

Thermit process

Some comparisons of track welding methods; Koppers coal division of Eastern gas & fuel associates; thermit and electric welding. il diags Min Cong J 28:8-10+ My '42

Thermit, its uses in war and industry. J. H. Deppler. il Chem & Met Eng 49:93-7 Jl '42; Excerpts. Metals & Alloys 16:798+ O '42

X ray inspection

Radiographic inspection of welds; abstract. J. J. Gillespie. Metals & Alloys 15:1068+ Je '42

Radiography of spot welds. R. C. Woods. J. C. Barrett and T. W. Dietz. il diags Metals & Alloys 16:442-7, 1080-3 S, D '42

Some radiographic aspects of aluminum spot welds. R. C. Woods and S. L. Rich. il Welding J 21:101-4 F '42

Use of X-rays in general industrial application. R. T. Foreman. il Welding J 21:94-5 F '42

X-rays of spot welds; abstract. D. W. Smith and F. Keller. Iron Age 150:48 O 22 '42

WELDING, Electric. See Electric welding

WELDING, Oxyacetylene. See Oxyacetylene welding

WELDING research

Aircraft spot welding research; investigation of surface treatment of Alclad 24S-T in preparation for spot welding. W. F. Hess, R. A. Wyant and B. L. Averbach. il diags Welding J 21:sup257-65 Je '42

Corrosion resistance of welded joints; a review of the literature from Jan 1, 1937 to Jan. 1, 1941. W. Spraragen and H. H. Chiswik. bibliog(97 references) il diags Welding J 21:sup209-37 My '42

WELDING research—*Continued*

Fatigue strength of welded joints; a review of the literature from October 1936 to September 1941. W. Spraragen and D. Rosenthal. bibliog(127 references) il diags Welding J 21:sup297-348 Jl '42

Investigation of welding problems through metallurgy. L. L. Wyman. il Iron Age 150: 37-9 O 29 '42

Proposed fundamental research program in welding. Welding J 21:sup49-52 Ja '42

Weldability, a matter of cooling rates. H. Lawrence. bibliog Steel 110:90, 93-4 Ja 26 '42

Weldability of steels. W. H. Bruckner. il Welding J 21:sup55-9 Ja '42

Welding of copper. A. P. Young. bibliog il Welding J 20:sup513-21 N '41

Welding progress; the Institute of welding reviews five years' activity. Electrician 129:114-16 Jl 31 '42

Welding technology spurred by basic research; abstracts of papers at annual meeting of American welding society. Iron Age 150:46-52 O 22 '42

WELDING rods

Development in cast-iron welding rods and electrodes. R. J. Franklin. Welding J 21: 698-9 O '42; Abstract. Iron Age 150:51-2 O 22 '42

Low temperature welding with eutectic alloys; Castolin. il Aero Digest 41:182+ Ag '42

Lowering cobalt content of welded coating alloys. Iron Age 149:48 Ap 16 '42

Tentative specifications for iron and steel gas-welding rods. diags Welding J 21:598-600 S '42

Welding rod rebuilds reamers. G. W. Lewis. diag Am Mach 86:1230 O 29 '42

WELDING shops

Fabricating piping systems by electric-arc welding. A. M. Hill. il diags Oil & Gas J 41:41-3+ Jl 16; 38-9 Jl 23; 161-2 Jl 30; 45-6 Ag 6 '42

Equipment

Jigs and manipulators for fusion welding. il diags Engineering 152:430, 437-40 N 28 '41

WELFARE departments, Public. See Public welfare departments

WELFARE work

See also

Military service—Welfare work

United service organizations for national defense

WELFARE work in industry

Business gets a soul; examples of unusual help given to employees. H. W. Von Morpurgo. Barron's 21:20 D 8 '41; Same cond. Management R 31:2-4 Ja '42

Industrial plant buildings; features for worker health and comfort. il Factory Management 100:B66-B69 Ap '42

Worker's welfare; Bristol-Myers company. R. E. Spline. il Ind Med 11:68-9 F '42

See also

Benefit societies
Employees' buildings
Employment management
Employment systems
Insurance, Group
Medical service, Industrial
Pensions, Industrial
Profit sharing
Recreation
Saving
Unemployment—Relief measures
Wage deductions

WELL liners. See Petroleum—Well liners

WELL water. See Wells

WELLS, George W. 1846-1912

American optical company, Southbridge, Mass. Am Cer Soc Bul 21:180-6 S 15 '42

WELLS

Acid treatment quadruples flow in a war plant water well. il diags Eng N 129:232-4 Ag 13 '42

Deep wells as a source of water supply in the province of Ontario. A. T. Byram. il Water & Sewage 80:13-16 Je '42

Development of deep wells by dynamiting. R. E. Milaeger. Am Water Works Assn J 34: 684-9; Discussion. 689-90 My '42

Disinfection methods for deep wells. E. C. Jensen. diags Pub Works 73:21+ Ap '42

Drilling and developing deep wells. J. A. Carr. Water Works & Sewerage 89:251-2 Je '42

Engineer's view of well drilling contracts. E. A. Bell. Am Water Works Assn J 34:678-80 My '42

Experiences in developing rock wells. J. A. Carr. Am Water Works Assn J 34:691-4 My '42

Maintenance of deep wells; discussion. Water & Sewage 80:97-8 Ap '42

Navy graving dock built offshore in the dry; dredging, wells, pumps, etc. used to dewater site. E. C. Seibert. il diag Eng N 127:871-4 D 18 '41

New aids for water well drilling; instruments and techniques developed in oil fields. C. A. Bays. Eng N 129:374 S 10 '42

Practical symposium on deep wells. Water Works & Sewerage 88:512-13 N '41

Ranney system of underground-water collection. il diags Engineering 152:461-3 D 12 '41

Ranney water collector systems. J. F. Rhoades. diags Paper Tr J 114:123-4, 126, 128 F 19 '42

Rating and sampling wells by an improved method. P. F. Howard. diag Water Works & Sewerage 89:sup117 Je '42

Relationship between the well drilling contractor and the owner. E. D. Every. Am Water Works Assn J 34:681-3 My '42

Sand removal from well water; use of Brassert automatic self-cleaning strainers. G. L. Fugate. il diags Water Works & Sewerage 89:161-4 Ap '42

Sanitary construction and protection of wells. H. J. Ongerth. bibliog Am Water Works Assn J 34:671-7 My '42

Treating well screens with acid. J. Barth. Am Water Works Assn J 34:695-7 My '42

Water for the South's powder plants; radial well developed by the Ranney water collector corporation. il diags Manuf Rec 111: 32-3 Je '42

See also

Artesian wells
Drilling and boring (earth and rocks)
Gas, Natural
Petroleum—Well drilling
Water, Underground

Cleaning

Rejuvenating wells with chlorine; University of Illinois. H. L. White. il Civil Eng 12: 263-5 My '42

Restoring well capacity with chlorine. E. D. Brown. Am Water Works Assn J 34:698-702 My '42

WERNER, Alfred, 1866-1919

Some personal recollections of Alfred Werner. E. Berl. por J Chem Educ 19:153-4 Ap '42

WESSON, Charles Mason, 1878-

Portrait. Mech Eng 64:432 Je '42

WEST, Paul Brown, 1892-

Advertising awards medal goes to A.N.A. president. por Ptr Ink 198:46 F 13 '42

Gold medal award. S. Peabody. por Adv & Sell 35:6-7 F '42

Portrait. Business Week p64 F 7 '42

WEST

Burlington West; a colonization history of the Burlington railroad. R. C. Overton. 583p bibliog(p539-55) $4.50 Harvard univ. press '41

See also

Pacific coast

Bibliography

Chronicle of western books published in 1941. A. Powers, Div. of writing and publishing, Oregon state system of higher educ, 521 Oregon bldg, Portland '42

WEST INDIES

Compendium and description of the West Indies. A. V. de Espinosa. Smithsonian Misc Coll v102:1-862 '42

WEST INDIES—*Continued*
Engineer looks at South America. J. C. Cosgrove. il map Explosives Eng 20:116-18 Ap '42

See also
Cuba
Haiti
Puerto Rico

WEST INDIES, British
Economic conditions. For Comm W 6:11-12 F 14; 11 F 28; 12 Mr 21; 8:12-13 Jl 18; 10-11 Jl 25; 9:14 O 24 '42

See also
Jamaica

WEST VIRGINIA

See also
Coal—West Virginia
Roads—West Virginia

WEST VIRGINIA university
West Virginia university dedicates new Mineral industries building. il Explosives Eng 20:274-5 S '42; Abstract. Am Gas J 157:39 S '42

WESTCHESTER & Boston railway. See New York, Westchester & Boston railway

WESTERN adjustment and inspection company
Annual meeting, Chicago. Nat Underw 46:4+ Ja 29 '42

WESTERN auto supply company
Growth stocks and the investor. E. N. Chapman. Barron's 22:8 Mr 2 '42

WESTERN electric company
Consolidated income account, 1938-1941. Comm & Fin Chr 155:1128 Mr 16 '42
Sale of unit. Comm & Fin Chr 155:1760 My 4 '42

WESTERN factory insurance association
Western Factory's 50th year. J. R. Gathercoal. Nat Underw 46:3-4+ Mr 12 '42

WESTERN governmental research association
Proceedings of the fourth annual conference, Sacramento, Calif. Oct. 23-25, 1941. 46p The association, A. Harris, sec. Bur. of public administration, Univ. of California, Berkeley '41

WESTERN hemisphere
See also
America
Pan Americanism

WESTERN insurance bureau
Annual meeting, Skytop, Pa. May 13-14. Nat Underw 46:3+ My 14; 3 My 21 '42
Semi-annual meeting, Chicago. Nat Underw 46:1+ O 15 '42

WESTERN Maryland railway
Coal for the country's furnaces; Western Maryland contributes to the war effort. il map Ry Age 112:948-51 My 16 '42
Railroad securities. Comm & Fin Chr 154:1317 D 4 '41

WESTERN Pacific railroad
Railroad securities. Comm & Fin Chr 156:173 Jl 16 '42
Railroad securities; Western Pacific 1st mortgage 5s, 1946. Comm & Fin Chr 155:653 F 12 '42

WESTERN petroleum refiners association
Annual meeting, 10th, St Louis, March 25. Nat Pet N 34:15-18 Ap 1 '42; Oil & Gas J 40:18-19 Ap 2 '42
Meeting, Wichita, Oct. 9. Nat Pet N 34:19 O 14 '42
Technical meeting, Shreveport. Oil & Gas J 40:24 N 20 '41

WESTERN public service company
Hearing by SEC on plant to sell properties, etc. Comm & Fin Chr 154:1532 D 16 '41

WESTERN society of biometricians
First western meeting of biometricians. Science 95:218-19 F 27 '42

WESTERN society of engineers
Annual meeting, 72d, Chicago, June 2. W Soc E J 46:227-33 O '41
Annual meeting, 73d, Chicago, June 1. W Soc E J 47:83-93 Je '42
Year book containing the constitution, bylaws, membership roster, and the administrative and operating organization. W Soc E J 46:145-219 Ag '41
Year book, containing the constitution, bylaws, membership roster, and the administrative and operating organization. W Soc E J 47:117-86 Ag '42

WESTERN society of naturalists
Annual winter meeting, 14th, Stanford University, Dec. 29-31. Science 95:92 Ja 23 '42

WESTERN underwriters association
Annual meeting, Atlanta, April 21-22. Ins Field (Fire ed) 71:7-9 Ap 23 '42; Nat Underw 46:1+ Ap 23 '42

WESTERN union telegraph company
Another look at your company. Mag of Wall St 70:75 My 2 '42
Brighter prospects for telegraph merger. L. Edwards. Barron's 22:8 Ap 20 '42
Income account, 1938-1941. Comm & Fin Chr 155:1423 Ap 6 '42
New device to meet need for quick transmission of war-time telegrams to long lists of cities. Comm & Fin Chr 156:792 Ag 31 '42
Returns on Western Union bonds high. A. Jansen. Barron's 22:19 Ag 10 '42
Senate approves telegraph merger. Comm & Fin Chr 155:2464 Je 29 '42
Thumbnail stock appraisal. Mag of Wall St 71:86 O 31 '42
To eliminate low rate special services. Comm & Fin Chr 156:704 Ag 24 '42
War hastens efforts to merge telegraph companies. A. Barnes. Pub Util 29:681-5 My 21 '42
Western Union improves position. H. Lawrence. Barron's 22:20 Ag 17 '42

WESTINGHOUSE air brake company
Annual report. Comm & Fin Chr 155:928 Mr 2 '42
Companies with long dividend records. J. C. Clifford. Mag of Wall St 70:600 S 19 '42

WESTINGHOUSE electric and manufacturing company
American industry shares its "know how" to reveal production shortcuts. il diags Steel 111:70-4 Jl 20 '42
Annual report. Comm & Fin Chr 155:1224 Mr 23 '42
Another look. il Mag of Wall St 70:651+ O 3 '42
Day after tomorrow; interview with G. H. Bucher. A. P. Peck. Sci Am 167:152 O '42
Earnings, 1940 and 1941. Comm & Fin Chr 155:1024 Mr 9 '42
Engineering accomplishments in 1941. Blast F & Steel Pl 30:541 My '42
Last pie-cutting; profit sharing discontinued. Business Week p90-1 Ag 15 '42
1941 year-end statement. G. H. Bucher. Blast F & Steel Pl 30:71 Ja '42
Prospects for General Electric and Westinghouse. Barron's 22:12 S 7 '42
Redesign, substitution, simplification, and standardization. D. R. Kellogg. Mech Eng 64:30-1 Ja '42; Abstract. Steel 110:72-3+ Ap 20 '42
Safeguarding worker health. T. L. Hazlett. il Factory Management 100:76-7+ Ag '42
$20,000,000 debentures sold. Comm & Fin Chr 154:1061 N 15 '41

WESTMINSTER bank
Statement circulated to the shareholders. R. E. Beckett. Economist 142:124-5 Ja 24 '42

WESTON electrical instrument corporation
Another look at your company. Mag of Wall St 70:233 Je 13 '42
High yield stocks. S. Devlin. Mag of Wall St 69:569 F 21 '42

WETTING
Relationships between the spreading pressure, adsorption, and wetting. H. H. Rowley and W. B. Innes. bibliog diag J Phys Chem 46:694-705 Je '42

WETTING, Heat of
Heat-of-wetting values of unfired and fired clays. C. W. Parmelee and V. D. Fréchette. bibliog Am Cer Soc J 25:108-12 F 15 '42

WETTING, Heat of—*Continued*

Heats of wetting for the evaluation of gas-adsorbing coconut carbons. H. W. Stone and R. O. Clinton. bibliog diag Ind & Eng Chem Anal ed 14:131-5 F 15 '42

WETTING agents

Adsorption of wetting agents by wool. G. C. Le Compte and J. W. Creely. Am Dyestuff Rep 31:121-3 Mr 2 '42

Conductometric assay of inorganic salt in the presence of wetting agents. J. H. Percy and C. J. Arrowsmith. bibliog Ind & Eng Chem Anal ed 14:151-3 F 15 '42

Dust allaying with wetting agents; abstract. C. W. Owings. Coal Age 46:89-91 N '41

Effect of steam and hot water with soda ash and a wetting agent on properties of clay. H. G. Schurecht, J. F. McMahon and C. M. Lampman. il Am Cer Soc J 25:346-51 Ag 1 '42

Effect of surface-active agents on electro-organic reductions. C. W. Proudfit and W. G. France. bibliog diags J Phys Chem 46:42-51 Ja '42

Effect of wetting agents on electrodeposition of nickel. R. F. Davis, K. M. Wolfe and W. G. France. bibliog il Ind & Eng Chem 33:1546-8 D '41

Evaluation of finishing agents for sanforizing. diags Am Dyestuff Rep 30:679-81 D 8 '41

Fifth ingredient; importance of driers and special agents in war-time paint formulation. A. Minich. Can Chem & Process Ind 26:205-6 Ap '42; Same. Paint Oil & Chem R 104:9+ My 7 '42

Industrial uses of chemicals and related materials: butylphenylphenol sodium-sulphonate. Oil Paint & Drug Rep 141:44 Je 15 '42

Industrial uses of chemicals and related materials; sodium sulphosuccinate diamylester. Oil Paint & Drug Rep 142:66 S 21 '42

Some pharmacological properties of the tergitol penetrants. H. F. Smyth, jr, J. Seaton and L. Fischer. bibliog J Ind Hygiene 23:478-83 D '41

Wetting agents; uses in photography. G. Duggins. Am Phot 36:12-13 Ag '42

Wetting-out agents. C. B. Kinney. Paper Ind 24:50-1 Ap '42

What you can use; wetting agents for pigments. Oil Paint & Drug Rep 141:60 F 16 '42

WHALING

Yankee whaler. C. W. Ashley. 2d ed 156p bibliog(p147-9) $1.98 Blue ribbon books '42

WHARVES

See also

Docks

Loading and unloading—Ships

Piers

WHEAT

Change AAA wheat rules to use volunteer wheat. Comm & Fin Chr 155:1547 Ap 16 '42

CCC decides to sell 1939-40 pooled wheat. Comm & Fin Chr 155:29 Ja 1 '42

CCC to sell wheat for alcohol output. Comm & Fin Chr 155:565 F 5 '42

CCC wheat for feed. Comm & Fin Chr 155:427 Ja 29 '42

Damaged wheat purchase by Commodity credit corporation. Comm & Fin Chr 156:1182 O 1 '42

Developments in the field of commodities. Barron's 21:6 D 1 '41; 22:6 Ap 13 '42

Effects of oxygen on respiration, fermentation and growth in wheat and rice. D. L. Taylor. Science 95:129-30 Ja 30 '42

81% of wheat growers approve market quotas. Comm & Fin Chr 155:1878 My 14 '42

Five nations set up war relief wheat pool. Comm & Fin Chr 156:197 Jl 16 '42

FDR signs bill allowing government wheat sales. Comm & Fin Chr 156:461 Ag 6 '42

International wheat agreement and post-war relief. Int Labour R 46:443-5 O '42

1941 corn and wheat loans. Comm & Fin Chr 155:965 Mr 5 '42

1942 wheat loan rate up; announces quotas. Comm & Fin Chr 155:1792 My 7 '42

Our surplus problem number one. N. C. Murray. Barron's 22:7+ Ja 12 '42

Penalty on wheat marketed in excess of quotas held invalid by federal court. Comm & Fin Chr 155:1259 Mr 26 '42

Plan to expand wheat and flour exports. Comm & Fin Chr 154:1242 N 27 '41

Report wheat sales of Commodity credit corporation, 1941 crop. Comm & Fin Chr 155:1949 My 21 '42

Smaller wheat area may not cut output. Comm & Fin Chr 155:25 Ja 1 '42

Surplus spills over. il Business Week p22+ Jl 25 '42

To encourage redemption of 1941 loan wheat. Comm & Fin Chr 155:2043 My 28 '42

War and the wheat market. R. Uhlmann. J Business 15:131-9 Ap '42

Wheat crop forecast indicates two years supply for next season. Comm & Fin Chr 155:1632 Ap 23 '42

Wheat growers urged to grow war crops. Comm & Fin Chr 156:1277 O 8 '42

Wheat hybrid; Cornell develops white wheat. Business Week p31-2 N 7 '42

Wheat peeled for better bread; process developed by mining engineer retains grain elements. H. T. Rutledge. il Sci Am 166:25-6 Ja '42

Wheat plan; agreement between leading export countries and Great Britain. Economist 143:50-1 Jl 11 '42

Wheat price squeeze less likely this season. Barron's 22:6 Ag 17 '42

Wheat referendum in May. Comm & Fin Chr 155:688 F 12 '42

Wheat treated with ethylene keeps better and bakes better. Franklin Inst J 233:611 Je '42

See also

Flour

Analysis

See also

Flour—Analysis

Chemistry

Fractionation of wheat starch. L. H. Lampitt, C. H. F. Fuller and N. Goldenberg. bibliog pls Soc Chem Ind J 60:1-6, 25-9, 47-50, 69-72, 99-111, 137-41, 175-84, 231-41, 301-5 Ja-Jl, S, D '41

Nation's food; cereals as food; chemistry of wheat and wheat products. R. G. Booth and others. bibliog Chem & Ind 60:903-8; 61:245-7 D 27 '41, My 30 '42

Phytic acid and its destruction in baking. W. J. S. Pringle and T. Moran. bibliog Soc Chem Ind J 61:108-10 Jl '42

Vitamin-B_1 and riboflavin contents of wheat germ. J. J. C. Hinton. Soc Chem Ind J 61:143-4 S '42

Wheat germ protein; abstract. E. L. Love and C. G. Harrel. Science 95:sup9 My 29 '42

Prices

Danubian grain. Economist 143:358 S 19 '42

Market forecasting significance of market movements. L. C. Wilcoxen. Am Statis Assn J 37:343-51 S '42

Statistics

Peruvian production of wheat in 1940. For Comm W 6:18 F 7 '42

Storage

Feed grains and storage problems. Barron's 22:13+ My 25 '42

Homeless wheat; elevator situation tighter than last year. Business Week p81-2 Ap 25 '42

Wheat bugaboo; storage space problem. Business Week p54 My 23 '42

Wheat storage a problem. C. R. Wickard. Comm & Fin Chr 155:1789 My 7 '42

Where will the wheat crop go? elevators practically full; abstract. F. A. Theis. Ry Age 112:707+ Ap 4 '42

Transportation

Wheat question is still perplexing. Ry Age 112:1191 Je 20 '42

WHEAT—*Continued*

Argentina

Argentina to take compensation bonds from Spain for wheat. For Comm W 6:10 F 14 '42

Canada

Durum wheat production and exports, 1937-38 and 1938-39. For Comm W 5:22-3 N 29 '41

Quality of western Canadian wheat, 1941 crop. J. A. Anderson and I. R. Aitken. Can Chem & Process Ind 25:613-14+ N '41

Wheat problem. Bankers M 144:429-31 My '42

Chile

Wheat situation, Chile. For Comm W 8:24 S 5 '42

Egypt

Egyptian government becomes sole buyer of 1942 wheat crop. For Comm W 8:17 Jl 4 '42

Government to purchase part of 1942 wheat crop. For Comm W 7:16 Je 6 '42

Kansas

Wheat bonanza; Kansas gets a windfall from grain that seeded itself. Business Week p68 Je 6 '42

Peru

Production and consumption of wheat in Peru in 1941. For Comm W 9:27 N 7 '42

Uruguay

Guaranteed minimum purchase prices set for 1941-42 crop. For Comm W 6:28 F 28 '42

Uruguay's wheat production, 1937-38 to 1941-42. For Comm W 8:20 S 26 '42

WHEAT flour. See Flour

WHEAT insurance. See Insurance, Wheat

WHEAT mosaic virus

Heat inactivation of wheat mosaic virus in soils. F. Johnson. Science 95:610 Je 12 '42

WHEATSTONE bridge

Electrometric titration in alkaline pulping. G. J. Crocker and others. diag Paper Tr J 115:33-7 N 5 '42

Moisture in wood determined with new electrical instrument. il Sci Am 167:207-8 N '42

Practical a-c. bridge construction. C. E. Diehl. diag Instruments 15:297 Ag '42

Resistance transformations; delta-star and star-delta units. G. Stubbings. il Electrician 127:307-8 N 28 '41

WHEELER, Elmer, 1903-

Elmer goes to war. por Business Week p61-4 F 7 '42

WHEELING & Lake Erie railway

Joint control. Comm & Fin Chr 154:1307 D 2 '41

WHEELING steel corporation

Another look. il Mag of Wall St 71:76 O 31 '42

Consolidated income statement, 1938-1941. Comm & Fin Chr 155:1423 Ap 6 '42

High yield stocks. S. Devlin. il Mag of Wall St 69:560-1 F 21 '42

WHEELS

See also

Automobiles—Wheels
Car wheels
Gearing
Grinding wheels
Locomotives—Wheels
Motor buses—Wheels
Pulleys
Sheaves
Trucks—Wheels
Turbines

WHEELS, Steel

Manufacture

Fabricating steel trailer wheels. F. F. Branch. il Steel 109:72 D 8 '41

WHEY

Ethyl alcohol from fermentation of lactose in whey. H. H. Browne. bibliog News Ed 19:1272+ N 25 '41

WHISKY

Chemical engineering developments in grain distillery. A. Herman, E. M. Stallings and H. F. Willkie. flow diags il Am Inst Chem Eng Trans 38:791-809; Discussion. 809-12 Ag '42

Distillers' status; suspension of all whisky production will leave stocks for five years. Business Week p30-2 O 17 '42

Ingenious packaging booms Glenmore holiday sales. A. P. Bondurant. il Sales Management 50:43-4 Ja 1 '42

Processing equipment for whisky filtration. R. O. Schmitt, P. J. Kolachov and H. F. Willkie. flow diag il Ind & Eng Chem 34:1135-8 O '42

Whiskey converts; middle western plants to switch to military alcohol for the duration. Business Week p17 Je 20 '42

Whisky drafted as source of alcohol for munitions manufacture. Business Week p48+ My 9 '42

Whisky losses during aging. M. Gallagher, P. Kolachov and H. F. Willkie. il Ind & Eng Chem 34:992-5 Ag '42

See also

Distilleries
Distilling industries

WHISKY bottles. See Bottles

WHISTLES

Chrysler-Bell victory siren requires less critical materials. il diags Product Eng 13:573-5 O '42

Molding the Thunderer. il diags Mod Plastics 20:43+ S '42

War needs inspire siren design. C. H. Morris. il diags Machine Design 14:57-9 S '42

WHITBY, G. Stafford, 1887-

Plastics group chairman, 1941-42. por Chem & Ind 61:399-400 S 26 '42

WHITE, Albert Easton, 1884-

Sketch. por Metal Prog 41:510-11 Ap '42

WHITE, George Avery

State Mutual's executive change. por East Underw 43:6 Mr 6 '42

WHITE, James Gilbert, 1861-1942

Sketch. Comm & Fin Chr 155:2224 Je 11 '42

WHITE, William Rafford, 1903-

To join Guaranty Trust. Comm & Fin Chr 156:1640 N 5 '42

WHITE

Aftertreatment of white effects; removal of stains and brightening of colors. Textile Col 64:387-8+ Ag '42

Colour group discusses meaning and measurement of whiteness; abstracts of papers by J. G. Holmes, V. G. W. Harrison and C. G. Heys-Hallett. Light & Lighting 34:152 O '41

Lower heat absorption of white tank paints; abstract. P. L. Lotz. Nat Pet N 34:R88 Mr 18 '42

Paint white for more light. J. A. Meacham. il Metal Finishing 40:58-61 Ja '42

Tests made with fluorescent whites. Illum Eng 37:10 Ja '42

WHITE metal (legend)

Legendary white metal and its ore; Southwestern legend of ore that could be used to harden iron or steel. C. W. Davis. U S Bur Mines Information Circ 7205:1-5 '42; Same cond. Eng & Min J 143:147-9 Je '42

WHITE water. See Paper mills—Waste

WHITEHEAD, John Boswell, 1872-

Dr J. B. Whitehead gets Edison medal for 1941. por Elec W 116:2077 D 27 '41

1941 Edison medalist; address by F. M. Farmer, with response by J. B. Whitehead. Elec Eng 61:135-8 Mr '42

WHITEWARE. See Porcelain; Pottery

WHITING, Indiana

Water supply

Ozonation at Whiting, Ind.; with cost data. J. F. Bartuska. flow diag il Am Water Works Assn J 33:2035-50 N '41

WHITING
Chalk and whiting. O. Bowles. bibliog U S Bur Mines Information Circ 7197:1-21 '42; Excerpt. Rock Prod 45:69-70 My '42

WHITNEY, Willis Rodney, 1868-
Awarded the John Fritz medal. por Elec Eng 61:574, 582 N '42

WHOLESALE dry goods institute
Wholesalers' selective listing of manufacturers outlawed. Oil Paint & Drug Rep 140:3+ D 1 '41

WHOLESALE prices. See Prices, Wholesale

WHOLESALE trade
War program and wholesale distribution. E. V. W. Read. Oil Paint & Drug Rep 142:53+ O 5 '42

See also
Jobbers

Statistics

Fourteen important financial ratios for 24 wholesale trades. R. A. Foulke. Dun's R 49:8-9 D '41

Wholesalers' 1941 sales inventories, credits rise over preceding year. Comm & Fin Chr 155:681 F 12 '42

Gary, Indiana

What happens to sales after the merchandise gets to wholesaler? Gary, Ind. check-up revealed that 80% of wholesale buying was done outside of city. Sales Management 51:60, 62 N 1 '42

WHOOPING cough
Sulfadiazine in murine pertussis. J. W. Hornibrook. bibliog Pub Health Rep 57:535-7 Ap 10 '42

WICHITA, Kansas
Housing for war; millions of war workers need decent shelter; to give it to them, we must accept billeting and requisitioning. Fortune 26:193-4 O '42

Industries

Emergency city planning for Wichita; difficulties caused by new housing projects for war workers. P. L. Brockway. il map Civil Eng 12:563-5 O '42

Wichita's 25 years in aviation manufacturing. il Aero Digest 40:81-3, 86-7 F '42

WICKARD, Claude Raymond, 1893-
Wickard leads with his chin; food program. por Business Week p7 Je 13 '42

WICKING
Wool felt wicking plays important part in lubrication. E. F. Korbel and W. Colwell. Rayon 23:554-5 S '42

WICKWIRE Spencer steel company
Directors decline offer of Republic steel corp. to purchase assets. Comm & Fin Chr 154:1154 N 22 '41

Stockholders fight voting trusteeship. Comm & Fin Chr 155:1423 Ap 6 '42

WIEGAND, Karl McKay, 1873-1942
Sketch. L. Knudson. Science 95:449 My 1 '42

WIEN bridge
Symmetrical electrical systems; basic theory with application to the Wien bridge. E. S. Purington. diags Electronics 15:54-7 N '42

WIGGIN, Thomas Hollis
Sketch. por(p50) Civil Eng 12:51-2 Ja '42

WIGGINS, Archibald Lee Manning, 1890-
ABA vice president is active merchant as well as banker. por Barron's 22:5 Ap 6 '42

Meet the vice-presidents. A. W. Atwood. por Banking 34:76-9 D '41

WILD-cat drilling. See Petroleum—Prospecting

WILDLIFE
Inter-American treaty on nature protection. Science 95:426-7 Ap 24 '42

International protection of wild life; an examination of treaties and other agreements for the preservation of birds and mammals. S. S. Hayden. 246p bibliog(p233-42) $3 Columbia univ. press '42

Wildlife conservation and management; abstract. E. S. Stephens. Science 94:sup13 N 14 '41

Wildlife conservation; information concerning and helps for teaching. L. W. Mentzer. (Bul of information, v21, no6) 63p bibliog (p58-63) Kansas state teachers college, Emporia '41

See also
National wildlife federation
Singer wildlife refuge

WILDLIFE federation, National. See National wildlife federation

WILEY, William Ogden, 1862-
Testimonial. J Eng Educ 33:144-5 O '42

WILHELMINA, queen of the Netherlands, 1880-
Queen Wilhelmina addresses Congress. Comm & Fin Chr 156:639 Ag 20 '42

WILLARD, Daniel, 1861-1942
Sketch. Comm & Fin Chr 156:180 Jl 16 '42
Sketch. por Ry Age 113:61-2 Jl 11 '42

WILLIAMS, Clyde Elmer, 1893-
Director of Battelle memorial institute. por Am Cer Soc Bul 21:158-9 Ag 15 '42
Portrait. Min & Met 23:4 Ja '42

WILLIAMS, Robert Runnels, 1886-
Charles Frederick Chandler medal of Columbia university. Science 95:245-6 Mr 6 '42
Personalities in chemistry. A. D. McFadyen. por Chem Ind 51:346-7+ S '42

WILLIAMS, Roger John, 1893-
Charles Frederick Chandler medal of Columbia university. Science 95:245-6 Mr 6 '42
Personalities in chemistry. A. D. McFadyen. por Chem Ind 51:346-7+ S '42

WILLIAMS Deacon's bank, limited
Annual general meeting, Manchester. Economist 142:200 F 7 '42

WILLKIE, Wendell Lewis, 1892-
Calls for new fronts in Europe and Asia; urges greater aid to allies and defining war aims; text of radio address, Oct. 26. Comm & Fin Chr 156:1545, 1548+ O 29 '42
Willkie reports to President on mission, renews call for second front. Comm & Fin Chr 156:1436 O 22 '42

WILLOW RUN (proposed Bomber City)
What housing for Willow Run? il Arch Rec 92:51-4 S '42

WILLS
Drafting in wartime. E. P. Griffin. Trusts & Estates 75:249-50 S '42
Help with a will. R. Sanborn. Ins Field (Life ed) 71:17 Mr 20 '42
How about your will? F. B. Kirkbride. Trusts & Estates 75:361-2 O '42
How to hide your will. R. Wormser. Trusts & Estates 73:519-20 N '41
Nuncupative and holographic wills. W. O. Wilson. Trusts & Estates 75:319-22 S '42
Probate denied! home-made wills. Trusts & Estates 74:53-4 Ja '42
Revising your will with an eye to inflation. K. Grinstead. Barron's 22:7 Ja 26 '42
Secret ballot on wills. Trusts & Estates 75:149 Ag '42
Soldiers' and sailors' wills. T. E. Atkinson. Trusts & Estates 75:284-8 S '42
Status of surviving spouse and right of election. W. C. Wiseman. Trusts & Estates 75:289-96 S '42

T. Mortimer Plumb, a financial biography; Lawyer Brown's memorandum. J. S. Montgomery, jr. Trusts & Estates 73:513-18 N '41

Tax considerations in drafting wills. P. E. Farrier. Trusts & Estates 73:633-6 D '41

Taxes under your will. J. B. Lowe. Banking 35:52 O '42

That old will of mine. R. Wormser. Trusts & Estates 74:65-8 Ja '42

32 per cent have no wills; questionnaire by Union and New Haven trust company. E. M. Gaillard. il Bankers Mo 59:437-9+ O '42

Trends in estate planning; yesterday's will and the new tax bill. H. S. Koster. Trusts & Estates 74:395-6 Ap '42

WILLS—*Continued*
War's effect on estates and trusts; suggested will clauses and statutory changes. J. S. Montgomery, jr. Trusts & Estates 75:377-82 O '42
Where there's a will. Published in monthly numbers of Trusts and estates

See also
Estates (law)
Executors and administrators
Gifts (law)
Probate law

WILLSTÄTTER, Richard, 1872-
Sketch. E. Berl. por Chem & Eng N 20:954 Ag 10 '42

WILLYS-OVERLAND motors, inc.
Annual report. Comm & Fin Chr 155:162 Ja 10 '42
Motor cars to munitions. il Am Mach 86: 609-12 Je 11 '42

WILMINGTON, North Carolina
See also Housing—Wilmington, North Carolina

WILSON, Charles Edward, 1886-
Portrait. Business Week p 14 S 26 '42; Steel 111:37 S 28 '42; Sci Am 167:203 N '42
Wilson to head War production. por Elec W News ed 118:1016 S 26 '42

WILSON, Charles Erwin, 1890-
Portrait. Mach 48:111 Mr '42

WILSON, Edmund Beecher, 1856-1939
Edmund Beecher Wilson. T. H. Morgan. Science 96:239-42 S 11 '42

WILSON, Robert Erastus, 1893-
Selected for Perkin medal. por Oil Paint & Drug Rep 142:3+ O 12 '42

WILSON and company, inc.
Annual report. Comm & Fin Chr 155:368 Ja 24 '42

WILSON cloud chamber. See Cloud chambers

WINCHES
Vacuum-controlled attachments for conventional winch for back filling with Morman board. H. L. Henry. diags Gas Age 89:32 Ap 23 '42

WINCHES, Electric
Taylor winch unit. il Mech Handling 29:189 O '42

WIND. See Winds

WIND instruments
Directivity and the acoustic spectra of brass wind instruments. D. W. Martin. diags Acoustical Soc Am J 13:309-13 Ja '42
Edge tones. A. T. Jones. bibliog Acoustical Soc Am J 14:131-9 O '42

See also
Clarinets
Cornets
Trumpets

WIND insurance. See Insurance, Tornado

WIND load. See Electric lines—Wind load

WIND power
1,000-kw. wind-power electric generating plant; Grandpa's Knob, near Rutland, Vermont. il diag Engineering 154:81-3, 90 Jl 31 '42
Smith-Putnam wind turbine project. J. B. Wilbur. il diag Boston Soc C E J 29:211-28 Jl '42
Wind-power plant continues operation; plant at Grandpa's Knob, Vermont. J. W. Wilbur. diag Power Pl Eng 46:78-9 O '42
Wind-power plant operations going on; generating plant on Grandpa's Knob near Rutland, Vt. Elec W 118:462 Ag 8 '42

See also
Windmills

WIND pressure
Distribution of wind stresses in mast guys. C. M. Goodrich. Civil Eng 12:517-18 S '42
Effect of wind on hangar footings by moment distribution. S. U. Benscoter. diags Civil Eng 12:457-8 Ag '42
Huts to resist wind pressure. il Engineering 153:70 Ja 23 '42
In the path of the storm; much can be done to enable industrial buildings to weather the blow. E. B. Gerry. il Nat Safety N 45:20-1+ F '42
Side spans of suspension bridges under static lateral forces. L. Balog. Civil Eng 12:273-5 My '42

WIND simulator
Wind simulator for the Link trainer. E. Shumate. il Instruments 15:209 Je '42

WIND tunnels
Condensation shock waves in supersonic wind tunnel nozzles; abstract. R. Hermann. Roy Aeronautical Soc J 46:342 O '42
Electric induction motor at Wright field. Science 96:sup10 Jl 3 '42
Height of stacks established by wind-tunnel tests; investigation of flue gas problem at Riverside station, Baltimore. H. L. von Hohenleiten and E. F. Wolf. Power Pl Eng 46:73-5 Ag '42
Large adjustable-speed wind-tunnel drive. C. C. Clymer. il diag Elec Eng 61:Trans 156-8 Mr '42
Modine's automotive wind tunnel for testing radiators. A. B. Arnold. il plan Automotive Ind 85:42-4 N 15 '41
New two-parameter model suspension system for the Galcit 10-ft. wind tunnel. A. L. Klein, P. V. H. Serrell and C. B. Millikan. il diags J Aeronautical Sci 9:302-8 Je '42
North American's new wind tunnel. il Aero Digest 41:193 Ag '42
Study of the modified Kramer or asynchronous-synchronous cascade variable-speed drive. M. M. Liwchitz and L. A. Kilgore. diags Elec Eng 61:Trans 255-60 My '42
Symmetrical potential flow of compressible fluid past a circular cylinder in the tunnel in the sub-critical zone; abstract. E. Lamla. Aeronautical Eng R 1:91 Ag '42
Variable-speed drive for United States army Air corps wind tunnel at Wright field, Dayton, Ohio. A. D. Dickey, C. M. Laffoon and L. A. Kilgore. il diag Elec Eng 61:Trans 126-30 Mr '42; Same cond. Aero Digest 40: 212+ F '42; Excerpts. Power Pl Eng 46: 87-9 Jl '42
Wind-tunnel experiments on model reaction turbine blades. M. R. Youssef. diags Engineering 153:138-40 F 13 '42

WIND turbines. See Wind power

WIND worn rocks. See Ventifacts

WINDBREAKER fabrics
Fabric specifications for army; cloth, cotton; wind resistant used for windbreakers. Textile Col 64:241+ My '42

WINDING

See also
Rayon winding

WINDING machines
Globe heavy-duty winding machine. il Mach 48:164-5 Ja '42
Improved drive for wire reeling machine. A. F. Metzger. diags Elec W 117:674+ F 21 '42
Leesona coil winding machine. il Electrician 128:263-4 Mr 20 '42
Progress in the technique of rayon winding. E. H. Doute. il Rayon 23:22-5 Ja '42
Two-stage brake prevents coasting of film; Bolex motion picture film winder. il diags Product Eng 13:257-8 My '42

Safety devices

Winder guards prevent accidents. J. A. Draper. il diags Pulp & Pa of Can 43:828, 845-6 O '42; Same abr. Nat Safety N 46:24-5 D '42

Tension control

How to maintain constant linear speed and tension. E. S. Murrah. il diag Gen Elec R 44:625-7 N '41; Same. Steel 110:78, 80 Mr 30 '42
Pilot control regulates strip tension. F. J. Donahue. il Machine Design 14:160+ Ap '42
Reel winder is tension controlled; patent assigned to the Bell and Howell co. diag Machine Design 14:142+ Ag '42

WINDMILLS
1,000-kw. wind-power electric generating plant; Grandpa's Knob, near Rutland, Vermont. il diag Engineering 154:81-3, 90 Jl 31 '42

WINDMILLS—*Continued*

Smith-Putnam wind turbine project. J. B. Wilbur. il diag Boston Soc C E J 29:211-28 Jl '42

Suffolk post mills. R. Wailes. il Engineering 152:443-5, 464-5 D 5-12 '41

Wind-power plant continues operation; plant at Grandpa's Knob, Vermont. J. W. Wilbur. diag Power Pl Eng 46:78-9 O '42

WINDOW blinds. See Blinds

WINDOW display. See Show windows

WINDOW sashes

Expected service effectiveness of preservative treatments applied to millwork; a laboratory method of comparison. J. B. Mellecker and M. W. Baker. il Ind & Eng Chem Anal ed 14:305-8 Ap 15 '42

National door manufacturers association perfects wood window sash for industrial use. Steel 111:116 Ag 3 '42

New Kahn victory sash to save steel. diags Power Pl Eng 46:67+ Je '42

Patent rights waived on wood sash to speed war-plant construction. il Eng N 128:870 My 21 '42

Standardized wood sash units. il diag Eng N 129:sup140+ Ag 13 '42

Wood sash for industrial buildings conserves steel. il diags Steel 110:89-90 Je 22 '42; Same cond. Am Bld 64:74+ Je '42

Weights

Concrete sash weights added to lines of products manufacturers. diags Concrete 50:24+ Ag '42

WINDOW shades

Curtains for blackouts; of wool, paper. Sci Am 166:124 Mr '42

Quick work; Clopay blackout window shades. Ptr Ink 197:56+ D 19 '41

Residence blackout methods and materials. E. W. Commery, H. G. McKinlay and M. E. Webber. il diags Illum Eng 37:491-518 S '42; Same. Edison Elec Inst Bul 10:371-81+ O '42

Specification standards for government work. H. R. Sleeper. Arch Rec 91:92 Ap '42

WINDOWLESS construction

Ace carton corporation builds windowless plant with year-round air conditioning system. H. B. Reinhardt, jr. il diag Heat & Ven 39:34-9 Jl '42

Adequate light for efficient load dispatching; windowless structure housing the load dispatchers of the Los Angeles bureau of power and light. L. A. Gates. il plan Elec W 118:451-3 Ag 8 '42

Consider evaporative cooling for blackout plants. W. L. Fleisher. Heating-Piping 14:28-9 Ja '42

Douglas aircraft co. builds windowless factory at Long Beach. il Heat & Ven 38:36-40 D '41

General electric co.; air conditioned blackout factory for manufacturing aircraft engine superchargers. il Heat & Ven 38:45-7 D '41

Ideal blackout factory envisioned by construction expert. G. H. A. Parkman. il Heating-Piping 14:596 O '42

New plants of 1941; fluorescent lamps. il Factory Management 100:B59-B60+ Ap '42

New plants of 1941; four-motor bombers. il Factory Management 100:B46-B49 Ap '42

One of the country's unusual buildings; dome-shaped windowless restaurant and recreation center, Chicago bridge & iron co. il diag plan Sheet Metal Worker 33:49-50 Ja '42

Operating experience on pioneer windowless plant; Simonds saw & steel co. Eng N 128:845 My 21 '42

Painesville Telegraph air conditions its windowless plant; method of zone control. L. T. Avery. il plans Heat & Ven 39:28-31 F '42

350 tons of air conditioning; Sears, Roebuck & co, Birmingham. G. H. Watson. il Heat & Ven 39:19-20 Mr '42

Weave room is underground; windowless plant of Macon Textiles designed to provide uniform conditions. il Textile World 92:72-3 Jl '42

Windowless store in Birmingham, Ala.; Sears, Roebuck & company air conditioning equipment. Refrig Eng 43:367 Je '42

WINDOWS

Adhesion and adhesives, with special reference to anti-scatter treatments for windows. B. Butterworth. bibliog Chem & Ind 61:339-41, 350-1 Ag 8-15 '42

All purpose window in 194x house. il diags Arch Forum 77:96-7 S '42

Black-out coatings; Protex shatter-proof. J. M. Crowe. Chem Ind 50:511 Ap '42

Blackout materials and window protection; use of blackout paints and luminescent materials. il Power Pl Eng 46:69-72 N '42

Civilian defense; building protection; glass. il diags Arch Forum 76:38-41 Ja '42

Guarded hot box test of single- and double-glazed windows. M. M. McClure. il diags Heating-Piping 14:313-16 My '42

House, kitchen, window for 194x. il diag plan Arch Forum 77:122-3 S '42

How to modernize windows in war shops and plants. il diags Am Bld 64:74-5 Ap '42

Information on flexible transparent and translucent substitutes for window glass. R. J. Moore and H. W. Mackinney. bibliog Am Inst Chem Eng Trans 38:237-44 F '42

Make your own safety glass; Rexaneal, home made tape will protect windows. il Am Bld 64:91-2 Mr '42

New pressure-sealed victory window for low cost housing. diags Am Bld 64:67 F '42

New type window pane withstands explosions; transparent plastic laminated with wire mesh. Iron Age 150:95 Jl 16 '42; il Arch Rec 92:83 Jl '42

New window has wood pulleys. Am Bld 64:117 Ap '42

Overcoming mistakes in windows. J. B. G. Mesker. il Am Bld 64:90-4 Ja '42

Removable window instead of big door; steam plant of the Braintree (Mass.) municipal lighting department. il Elec W 118:786 S 5 '42

Some modern war-time finishes; window replacement fabrics. C. E. Salkeld. Soc Dyers & Col J 58:28-31 F '42; Same. Textile Col 64:245-9 My '42

Sweden likes new perspective window. For Comm W 7:17 My 16 '42

Testing of varnishes for use in conjunction with anti-scatter fabrics. H. M. Llewellyn. Soc Chem Ind J 61:60-3 Ap '42

Testing window glass for concussion damage. il Eng N 128:521 Ap 2 '42

Use a picture window. il diags Am Bld 64:44-5 Ag '42

Wired window protection; clear laminated cellulose acetate sheet with wire mesh reinforcement. il Mod Plastics 19:52+ Jl '42

See also

Glass
Show windows
Stained glass
Windowless construction

WINDS

Bridge behavior recorded electrically; installation on Golden Gate structure; wind direction and velocity are measured. il Elec West 89:48 Ag '42

Celestial windmills. C. D. Greene. 25p bibliog (p25) pa $1 C. D. Greene, 59 Calton rd, New Rochelle, N.Y. '41

Circulation of the atmosphere in high latitudes during winter. H. R. Byers and V. P. Starr. 34p U.S. Weather bur, Washington; pa 15c Supt. of doc. '41

Clouds, air and wind. E. Sloane. 75p $2.50 Devin-Adair co, New York '41

Historical note on the deflecting influence of the rotation of the earth. E. W. Woolard. bibliog Franklin Inst J 233:465-70 My '42

Propagation of sound through the atmosphere; bearing on audibility of aircraft and on exploration of altitudes. B. Haurwitz. bibliog map J Aeronautical Sci 9:35-43 D '41

Propagation of sound waves in the atmosphere; effect of wind on the path of sound waves. B. Gutenberg. bibliog Acoustical Soc Am J 14:151-3 O '42

WINDS—*Continued*
Sleet-wind values from Beaufort scale. E. A. Zehfuss. Elec W 117:674 F 21 '42

See also
Hurricanes
Insurance, Tornado
Tornadoes
Wind pressure

WINDSOR, Ontario

Water supply

New filtered-water reservoir. J. C. Keith. il diags Water & Sewage 80:11-15+ My '42

WINE
A B C of America's wines. M. F. Mabon. 233p $2 Knopf '42
All-America package competition; award to Petri wine co. il Mod Packaging 15:154-5+ Ap '42
All-America package competition; award to Roma wine co., inc. il Mod Packaging 15:150-1+ Ap '42
Argentina's wine output and trade. For Comm W 8:18 S 19 '42
British wine imports. Economist 141:543-4 N 1 '41
Bullish budgets for wines. J. L. Williston. Adv & Sell 35:48b, 52 My '42
Christmas spirits. il Mod Packaging 15:48-9+ D '41
Foaming properties of wine; method and preliminary results. M. A. Amerine, L. P. Martini and W. De Mattei. bibliog il Ind & Eng Chem 34:152-7 F '42
South African wine industry. For Comm W 8:22 S 12 '42
Two new wine bottles demonstrate trend of packaging in war time. il Sales Management 50:30, 32 Ap 1 '42
Vintner's gloom. Business Week p46+ S 19 '42
Wine is wary; vintners seek to entrench their product as a grocery item. Business Week p20 F 28 '42
Wine of the country. E. E. Calkins. Adv & Sell 35:46 S '42

See also
Sherry

Manufacture

Commercial production of dessert wines. M. A. Joslyn and M. A. Amerine. (Agric. exp. sta. bul. 651) 186p bibliog(p169-79) Univ. of California, Berkeley '41
Fine wines; chemical and engineering developments. E. R. Haynes. bibliog il Can Chem & Process Ind 26:579-81 O '42

Statistics

Cuban wine imports, 1939 and 1940. For Comm W 5:25 D 13 '41
Haitian wine imports, 1939-40 and 1940-41. For Comm W 6:14-15 Mr 14 '42

WINGS, Airplane. See Airplane wings

WINKING
Vision and seeing under light from fluorescent lamps. M. Luckiesh and F. K. Moss. Illum Eng 37:83-5 F '42

WINNIPEG, Manitoba

Water supply

Application of the Hardy Cross method to the analysis of a large distribution system. W. D. Hurst and N. S. Bubbis. bibliog maps Am Water Works Assn J 34:247-71 F '42

WINNIPEG free press
Greatest man in Canada; an appreciation of editor of Winnipeg free press. B. Hutchison. il Fortune 25:106-11, 114, 116+ Je '42

WINTER
Operating an information service on winter road conditions; how weather forecasting data are used in Michigan. B. R. Downey. Roads & Bridges 80:118+ O '42

WINTER construction
Army cantonment built in sub-zero weather. D. B. Niederlander. il Civil Eng 12:187-90 Ap '42

See also
Concrete construction in winter

WINTER sports

See also
Skis and skiing

WIRE
Heat transfer from wires to air in parallel flow. A. C. Mueller. bibliog diags Am Inst Chem Eng Trans 38:613-27; Discussion. 627-9 Je '42
Machine for straightening fine wire. diag Mach 49:164 O '42
Plain wire, Pittsburgh; prices, 1929-1941; tabulation. Steel 110:365 Ja 5 '42
Speed clamps for bundling wire. il Iron Age 149:54 My 21 '42
Wire and wire gauges, with special section on wire ropes. F. J. Camm. 137p $2.50 Chemical pub. co. '41

See also
Electric wire
Wire rope

Manufacture

Improved drive for wire reeling machine. A. F. Metzger. diags Elec W 117:674+ F 21 '42

See also
Wire drawing
Wire forming machines

Testing

Influence of external stresses on tendency of brass wires to stress-corrosion crack, as indicated by the mercurous nitrate test. H. P. Croft. diag Am Soc T M Proc 41:905-17; Discussion. 928-30 '41
Report of A.S.T.M. wire inspection committee on field tests of wire and wire products. Am Soc T M Proc 41:101-23 '41

WIRE, Aluminum
Copper and aluminium. L. P. Dudley. bibliog Electrician 128:419-22 My 1 '42
Fusing currents; their values for copper and aluminium wires. L. P. Dudley. bibliog Electrician 128:5-7 Ja 2 '42

WIRE, Bronze
Bronze wire for screen cloth; abstract. B. H. McGar. Metals & Alloys 14:757 N '41

WIRE, Copper
Copper and aluminium. L. P. Dudley. bibliog Electrician 128:419-22 My 1 '42
Fusing currents; their values for copper and aluminium wires. L. P. Dudley. bibliog Electrician 128:5-7 Ja 2 '42
Simplified copper wire calculations; reference sheet. L. Tulauskas. Electronics 15:75-6 O '42

Manufacture

Diamond dies for the high-speed drawing of copper wire. H. N. Padowicz. bibliog il diags Bell System Tech J 21:20-36 Je '42

WIRE, Steel
Formation and properties of martensite on the surface of rope wire. E. M. Trent. Iron & Steel Inst J 143:401-12, pl 50-3 no 1 '41; Discussion. 143:413-19, pl 53a no 1; 144:295-308 no 2 '41
Galvanized steel as a power conductor. F. M. Crapo. il Elec W 118:920-3 S 19 '42
Iron for line construction; use of solid and stranded steel wire in place of copper. il Elec West 89:38-9 Jl '42
Loads and deflections of stainless-steel round-wire helical springs; data sheets. J. I. Hommel. Mach 48:197 Ap; 135 My; 133 Je '42
Magnetic recording on steel. Radio N 28:42 S '42
Spring steels. H. Carlson. il Product Eng 13: 2-5, 89-92, 139-41 Ja-Mr '42
Stainless steel wire in aircraft; abstract. J. K. Findley. Metals & Alloys 15:170+ Ja '42
Use of steel wire for overhead line extensions. S. O. Miller. Edison Elec Inst Bul 10:197-200 My '42
Wire saves steel in concrete joists. il diags Eng N 128:930-2 Je 4 '42

See also
Wire rope

WIRE, Steel—*Continued*

Manufacture

Effect of drawing conditions on steel wire; abstract. F. Schwier. Iron Age 148:62 N 20 '41

Electrolytic zinc coated wire; Bethanized wire. L. H. Winkler. flow sheet il Metal Finishing 40:76-83 F '42

See also

Wire forming machines

Testing

Report of A.S.T.M. wire inspection committee on field tests of wire and wire products. Am Soc T M Proc 41:101-23 '41

WIRE association

Annual meeting, Cleveland. Steel 111:32-3 O 19 '42

WIRE bound boxes. See Boxes, Wire bound

WIRE cloth

Basic considerations in selecting screens. J. W. Greve. il diags Machine Design 14:61-5+ Mr '42

Bronze wire for screen cloth; abstract. B. H. McGar. Metals & Alloys 14:757 N '41

Fourdrinier wires in the war effort. H. G. Specht. Paper Tr J 114:87-8 Je 25 '42

Micro-straining, a new development in water purification. P. L. Boucher. il Engineer 173:420-2, 445-7 My 22-29 '42

WIRE drawing

Diamond dies for the high-speed drawing of copper wire. H. N. Padowicz. bibliog il diags Bell System Tech J 21:20-36 Je '42

Drawing variations in wire; abstract. H. J. Godfrey. Iron Age 150:60 Jl 9 '42

Use of carbide dies for drawing special shapes. J. R. Longwell. diags Steel 110:80, 82 F 2 '42

Wire drawing. K. B. Lewis. Metal Prog 41:102+ Ja '42

WIRE fences

Washington's water supply protected with steel fence. il Water Works & Sewerage 89:49 Ja '42

WIRE forming machines

Mechanism for producing variable reciprocating movement; wire weaving machine. L. Kasper. diags Mach 48:125-6 Ja '42

Overload release clutch mechanism; automatic machine for formed wire product. L. Kasper. diags Mach 48:143 D '41

Rapid-motion, short-stroke wire-feeding mechanism. L. Kasper. diags Mach 48:191-2 Ap '42

WIRE products

See also

Hair pins

Safety pins

WIRE rope

Deep-hole cable-tool drilling lines. A. S. Rairden. Pet Eng 14:138+ O '42

Formation and properties of martensite on the surface of rope wire. E. M. Trent. Iron & Steel Inst J 143:401-12, pl 50-3 no 1 '41; Discussion. 143:413-19, pl 53a no 1; 144:295-308 no 2 '41

Getting the most from shovels and cranes. Eng N 129:178 Jl 30 '42

How to inspect drums and sheaves used with wire rope; data sheets. A. J. Morgan. diags Factory Management 100:114, 116, 118 F '42

How to inspect wire rope; data sheets. A. J. Morgan. diags Factory Management 100:126, 128 Ja '42

Increasing life of wire rope. il Rock Prod 45:74 Ap '42

Life of a wire rope. R. Ralph. il Roads & Sts 85:41-2 Jl '42

Life of wire hoist ropes. W. H. Dunkley. diags Engineering 153:14 Ja 2 '42

Mechanical equipment; handling materials. il Nat Safety N 45:67-8+ Mr '42

Modern wire rope digest. 253p $2.50 Am. chain and cable co, Wilkes Barre, Pa. '41

Performance records for wire rope. Min Cong J 27:37 D '41

Proper operation of wire rope prolongs its useful life. H. F. Simons. il diags Oil & Gas J 41:38-9 My 21; 48, 50 My 28 '42

Reducing outage time of bucket cranes; preformed rope found to be advantageous. F. L. Spangler. il Mass Transportation 38:103 Ap '42

Safety and efficiency in handling materials. Pulp & Pa of Can 43:442-3 My '42

Selecting rope for cable pulling. F. L. Spangler. Elec W 117:1044 Mr 21 '42

Sheaves for wire rope. F. L. Spangler. Product Eng 13:533 S '42

War maintenance; wire rope and cable. il Coal Age 47:110-12 O '42

Wire and wire gauges, with special section on wire ropes. F. J. Camm. 137p $2.50 Chemical pub. co. '41

Wire rope on construction job aids shoring and bracing. diags Eng N 128:621 Ap 23 '42

Advertising

American Chain's victory program for wire rope distributors. W. Meyer. il Ind Marketing 27:38-9 N '42

Valuable facts about the use and care of wire rope; illustrated booklet. il Ind Marketing 27:38+ Jl '42

Failure

Mining haulage gear; study of failures; report of Safety in mines research board. Engineer 172:sup[Metallurgist] 46-7 D 26 '41

Wire ropes; 18th annual report of Safety in mines research board. Mech Handling 29:26-7 F '42

Lubrication

Lubricating the hoist ropes. P. C. Ziemke. diag Eng & Min J 143:63 Ja '42

Safety measures

Discarded wire rope; where to use it, and where not to. F. L. Spangler. il Nat Safety N 45:19+ My '42; Same. Rock Prod 45:75 Ap '42

Porcupines; precautions in handling wire rope. F. L. Spangler. il Nat Safety N 44:52+ D '41

Safe handling of wire rope. F. L. Spangler. Paper Ind 23:993+ Ja '42

Safer materials handling by reducing dangers from contact with wire rope. F. L. Spangler. il Steel 109:85-6 N 24 '41

Safety factor of winding ropes in deep shafts. D. R. Bean. Engineer 174:119-20 Ag 7 '42

Safety sermonettes; hoisting ropes. W. B. Paton. Can Min J 63:515-18 Ag '42; Same. Mech Handling 29:228-30 D '42

When to replace wire rope. A. J. Morgan. Factory Management 100:126 My '42

Wire rope can cause injuries! F. L. Spangler. il Eng & Min J 142:50 N '41

Wire snakes. F. L. Spangler. il Safety Eng 83:13 My '42

Standards

Report of A.P.I. committee on the standardization of wire rope and manila cordage. Am Pet Inst Proc 22(4):150-8 '41

Testing

Determining stress in haulage and other ropes; patent specification. diags Mech Handling 29:31-2 F '42

Investigation into the permissible load-carrying capacity of steel wire ropes for hoisting with special reference to deep-level winding on the Witwatersrand goldfields. J. J. P. Dolan and W. G. Jackson. bibliog diag Inst Mech Eng J & Proc 142:Proc 225-60 Ja '40; Discussion. il 146:Proc 20-32 N '41

WIRE rope fastenings

Use care in socketing rope! F. L. Spangler. il Min Cong J 28:34-5 Je '42

Welded socket. R. Wagner. diags Welding J 21:185 Mr '42; Same. Am Mach 86:391-2 Ap 30 '42

WIRE stitching machinery

Locking and releasing mechanism for traveling carriage. L. Kasper. diags Mach 48:127-8 F '42

WIRE tapping
Wire-tapping bill for war crimes approved. Comm & Fin Chr 155:2128 Je 4 '42

WIRELESS. See Radio communication and other headings beginning Radio

WISCONSIN
Transition in the northern Lake states. L. A. Salter, jr. J Land & Pub Util Econ 18:92-6 F '42

See also
Land tenure—Wisconsin

WISCONSIN academy of sciences, arts and letters
Annual meeting. Science 95:605 Je 12 '42

WISCONSIN alumni research foundation
Research grants. Science 96:131 Ag 7 '42

WISCONSIN central railway
Income account, 1940 and 1941. Comm & Fin Chr 155:2104 Je 1 '42

Pay July 1, 1934 coupons on 1st general mortgage bonds. Comm & Fin Chr 156:88 Jl 6 '42

Protective committee's letter on plan of reorganization. Comm & Fin Chr 155:57 Ja 3 '42

WISCONSIN river
Wisconsin; river of a thousand isles. A. Derleth. 366p bibliog(p339-45) $2.50 Farrar '42

WISCONSIN university
Year in an American university. A. Frumkin. Science 95:222-3 F 27 '42

WISEMAN, John T.
Wiseman elected to executive board of shipbuilders society. por Marine Eng 47:103 F '42

WITHEROW, William Porter, 1888-
New N.A.M. chief is close to war problems. por Business Week p20 D 13 '41

WITHERSPOON, R. A. 1876-
Pioneering in electrochemistry. por Can Chem & Process Ind 26:395-400 Jl '42

WITMER, Maurice E.
From fence posts to factories; saga of a small-city architect. por Arch Rec 90:14, 18 D '41

WITNESSES
Memo to manufacturers, from a public relations counselor on the grand jury. R. W. Riis. Steel 110:57-8+ Mr 2 '42

WITWATERSRAND. See Gold mines and mining—Transvaal

WOBURN iodine value. See Iodine number

WOLF, Robert Bunsen, 1877-
TAPPI medal award; presentation by R. A. Hayward and reply. por Paper Tr J 114:104-6 F 19 '42

TAPPI medal to Robert B. Wolf. Paper Ind 23:800 N '41

WOLF awards. See Package design

WOLFRAMITE
Wolfram hunting in Portugal. Economist 142:258 F 21 '42

WOLLASTONITE
Modified calorimeter for high temperatures; the heat content of silica, wollastonite and thorium dioxide above 25°. J. C. Southard. bibliog diag Am Chem Soc J 63:3142-6 N '41

WOLMANIZED lumber. See Wood preservation

WOMAN
Post-war woman. H. M. Ridley. 39p pa 40c Ryerson press '41

See also
Advertising—Women, Appeal to
Business women
College women
Insurance, Life—Women as prospects
Working women
World war, 1939—Women's work

Biography

First ladies. K. Prindiville. rev ed 278p bibliog(p265-78) $2 Macmillan '41

Employment

Absenteeism higher in war plants employing women. Steel 111:43 S 7 '42
After hours; how women in industry will affect our post-war economy. D. Griswold. Ptr Ink 199:72 Je 19 '42
Atlanta employs girls as meter readers. il Am Gas J 157:40 Jl '42
Atlanta girls make good as meter readers. J. H. Reed. il Gas Age 90:26+ S 10 '42
Britain's women working in the shipyards. Marine Eng 47:158 Ag '42
Can women do the job? abstract. M. Anderson. Management R 30:413 N '41
Comparative earnings and hours of women and men, October 1940. Monthly Labor R 53:1177-9 N '41
Demand growing for women in aircraft industry. R. Reeves. Civil Aero J 3:102+ Ap 15 '42
Detroit hunts help; hiring 80,000 women needed by auto industry will require big recruiting drive. il Business Week p72-3 Jl 4 '42
Draft for women; Detroit plans to register women workers. Business Week p72 Jl 11 '42
80 per cent of war jobs could be done by women. P. V. McNutt. il Steel 110:45 Je 1 '42
Employment of and demand for women workers in the manufacture of instruments; aircraft, optical and fire-control, and surgical and dental. U S Women's Bur Bul 189-4:1-20; pa 5c Supt. of doc. '42
Employment of girls on government contracts. Monthly Labor R 54:1328-9 Je '42
Employment of women in Germany under the National-socialist régime. Int Labour R 44:617-59 D '41
Employment of women in the federal government, 1923 to 1939. R. F. Nyswander and J. M. Hooks. bibliog U S Women's Bur Bul 182:1-60; pa 10c Supt. of doc. '41
Employment of women in the manufacture of artillery ammunition. U S Women's Bur Bul 189-3:1-17; pa 5c Supt. of doc. '42
Employment of women in the manufacture of small-arms ammunition. U S Women's Bur Bul 189-2:1-11; pa 5c Supt. of doc. '42
Employment of women in war production, May, 1942. 36p U.S. Social security board, Bur. of employment security, Washington '42
Employment of women in wartime. Monthly Labor R 55:441-5 S '42
Enter women, to do men's work; Goodyear tire & rubber company. il Factory Management 100:54-5 Ap '42
Female employee age limit reduced. Oil Paint & Drug Rep 141:4+ Ap 27 '42
Future labor shortage focuses attention on women workers. il Cer Ind 38:66 Je '42
Girl with a pay check; how she lands it, holds it, makes it grow. F. Maule. 273p $2 Harper '41
Girlpower at work; survey of girl service station attendants. il Nat Pet N 34:31-3 Jl 29 '42
Girls enlist for service on the station island. il Nat Pet N 34:35 Ap 22 '42
Girls in war work; Northam Warren nail polish plant making intricate parts used in airplane communications systems. il Mod Packaging 15:78, 81 Jl '42
Girls replace men at Scott plant. Paper Tr J 115:39 O 29 '42
Guideposts in the employment of women. Management R 31:342-3 O '42
Health of women in war-time production. M. T. Mettert. Nat Safety N 45:34, 38+ Je '42; Same cond. Safety Eng 84:39-40 Ag; 40-1 S '42; Excerpts. Management R 31:347-8 O '42; Abstract. Concrete (mill sec) 50:202 Jl '42
Hiring and training women for war work; Ford bomber plant, Willow Run, Mich. il Factory Management 100:72-3 Ag '42; Same. Management R 31:309-10 S '42
How to get the best results through employing women in war work. il Steel 110:62-3 Je 29 '42
I'd like the night shift, if—. E. Busky. il Factory Management 100:104-5+ O '42

WOMAN—Employment—*Continued*

In capable hands; women are winning a larger place on the bus labor front. il Bus Transportation 21:471 O '42

Labor shortage puts women to work in western mine. il Comp Air M 47:6866-7 O '42

Management planning for using women war workers. H. Baker. Advanced Management 7:108-11+ Jl-S '42

Matrons aid production. R. W. Koestner. Personnel J 21:163-4 N '42

Millions of women war workers needed to achieve arms goal. T. McKelvey. il Steel 110:60 Ap 6 '42

Miss War Worker designs her own work clothes. K. North. il Factory Management 100:98-9+ N '42

New headache; women workers and morale. il Business Week p46, 48 O 17 '42

New jobs for women. F. C. Minaker. il Am Business 12:22-4 Ap; 23-4, 37-8 My '42

190,000 workers; registration of women in Detroit. Business Week p33-4+ S 5 '42

Part-time employment of women in Great Britain. Monthly Labor R 54:1089-91 My '42

Part-time employment of women in industry. W. J. Barber. Engineer 173:395 My 8 '42

Policies governing employment of women; abstract. Management R 31:303-4 S '42

Railroad teaches women ticket sellers' technique. il Ry Age 113:465 S 19 '42

Railroads recruit women workers. M. Deems. il Ry Age 113:375-7 S 5 '42

Recent aspects of the employment of women in Germany. Int Labour R 45:286-96 Mr '42

Recreation and housing for women war workers. M. V. Robinson. U S Women's Bur Bul 190:1-40 bibliog(p35-7); pa 10c Supt. of doc. '42

Safety clothing for women in industry. il U S Women's Bur Special Bul 3:1-11; pa 10c Supt. of doc. '41

Six million women; special safety problems presented by women in industry. W. Dunn. Arch Forum 76:sup6+ My '42

Three million women will punch war factory time clocks. E. Johns. il Ptr Ink 199:15-17, 61+ My 8 '42

Training and upgrading employees; Manning, Maxwell & Moore, inc., Bridgeport. W. I. Newman. il Factory Management 100:69-70+ Ag '42

Training women for war work. J. B. Nealey. il Iron Age 150:50-1 Ag 6 '42

Urges equality for women in war jobs. W. P. Witherow. Comm & Fin Chr 155:1782 My 7 '42

War news and draft speeds women in industry hiring. il Iron Age 150:85-6 S 24 '42

Wartime employment of women in Australia. Int Labour R 46:198-201 Ag '42

Wartime employment of women in Canada. Int Labour R 46:340-3 S '42

War-time employment of women in the chemical industry. Chem & Ind 60:873-5 D 13 '41

What women are doing in industry. il Factory Management 100:61-2 Mr '42

Will the war bring more lady employees? Pub Util 29:374-5 Mr 12 '42

Withdrawal of young women from certain pursuits in Great Britain. Monthly Labor R 54:387 F '42

Withdrawal of young women from retail trade in Great Britain. Monthly Labor R 54:56 Ja '42

Woman in the shop; Vultee aircraft. G. S. Hastings. il Factory Management 100:90-1 Je '42

Woman's part in the British gas industry. H. H. Hallinan. il Am Gas J 157:16-18 O '42

Woman's place; surveys show they not only can do the job but that they often do it better. Business Week p20+ My 16 '42; Same cond. Management R 31:197-9 Je '42

Women and wartime health problems. M. H. Kronenberg. Ind Med 11:333-6 Jl '42

Women at war; safe practices. il Nat Safety N 46:58-9+ O '42

Women at work. Business Week p88+ O 10 '42

Women bosses. Business Week p44+ O 17 '42

Women collectors; Connecticut light & power co. L. A. Mayo. Am Gas Assn Mo 24:413 N '42

Women for industry. Economist 143:196-7 Ag 15 '42

Women for war; registration in Seattle. il Business Week p24 Ag 15 '42

Women in factory work. 52p Nat. ind. conf. bd. '42

Women in federal defense activities. L. F. McMillin. Monthly Labor R 54:640-2 Mr '42

Women in industry; placement and health maintenance. M. R. Burnell. Ind Med 11:282-3 Je '42

Women in retail trade; hours of work; holidays. Electrician 128:252 Mr 20 '42

Women in slacks speed plane production. D. Wharton. il Aviation 41:74-5+ Je '42

Women in the federal service. L. F. McMillin. 3d ed 53p bibliog(p51-3) U.S. Civil service commission, Washington '41

Women in the supply industry; commissioners urge greater use. Electrician 129:382 O 9 '42; Elec R (Lond) 131:471-2 O 9 '42

Women in war industries. H. Baker. 82p bibliog(p70-82) pa $1.50 Industrial relations section, Princeton univ, Princeton, N.J. '42

Women in war industries; their increasing role in the production program. Index 22 no 3:58-64 [S] '42

Women in war work. M. H. Froelich. il Aero Digest 41:132+ S '42

Women in war work; equality of pay granted by Labor board. il Steel 111:118 O 5 '42

Women on production at Monarch. W. E. Whipp. il Iron Age 150:59-63 N 5 '42; Same cond. Am Mach 86:1213-15 O 29 '42; Same cond. Mach 49:222-5 N '42

Women on South African railways. T. Seawright. il Ry Age 113:608-9+ O 17 '42

Women supervisors get more work out of women workers, Chicago meeting is told. Am Mach 86:742j Jl 9 '42

Women take over small shell plant. il Iron Age 150:100 S 10 '42

Women? they're here to stay; Grumman aircraft engineering corporation. P. S. Gilbert. il Factory Management 100:96-9+ S '42

Women war-workers at Vultee aircraft. W. G. Tuttle. Personnel J 21:82-95 S '42; Abstract. Am Mach 86:998-1000 S 3 '42

Women war workers less now than in 1918. Comm & Fin Chr 155:1062 Mr 12 '42

Women work for victory. il Safety Eng 83:6-8 Je '42

Women workers in aircraft plants increase steadily. Iron Age 150:76, 78 Ag 27 '42

Women workers in chemical industry; digest from British the Chemical trade journal. Chem Ind 50:97+ Ja '42

Women's factory employment in an expanding aircraft production program. U S Women's Bur Bul 189-1:1-12; pa 5c Supt. of doc. '42

Women's factory; Republic drill & tool co. has adapted plant processes and redesigned its machines. Business Week p20+ Jl 4 '42

Women's pay. Economist 141:646-7 N 29 '41

Work for women. H. S. Swan. il Tech R 44:172-4+ F '42

Workwomen great success at a Colorado mill. H. L. Tedrow. il Min & Met 23:546 N '42

See also

Business women
Canneries—Employees
Home labor
Servants
Stenographers
Woman—Occupations
Women as miners
Working women
World war, 1939—Women's work

Bibliography

Women in war industry. Cleveland Pub Lib Business Information Bur Bul v 13, no 4:1-4 S '42

Health and hygiene

Woman's health. W. C. Danforth. 398p $2.50 Farrar '41

WOMAN—Health and hygiene—*Continued*

Women and wartime health problems. M. H. Kronenberg. Ind Med 11:333-6 Jl '42

Law

War widows are variously affected by state laws. Credit & Fin Management 44:28+ O '42

See also

Husband and wife

Occupations

Advertising women cogitate on their post-war status. G. Murray. Ptr Ink 198:43 Mr 6 '42

Employment of women in the federal government, 1923 to 1939. R. F. Nyswander and J. M. Hooks. bibliog U S Women's Bur Bul 182:1-60; pa 10c Supt. of doc. '41

Fairchild engine & airplane corp.; employment of women. J Aeronautical Sci Aeronautical R Sec 9:34 N '41

Filling men's shoes; in wartime England women play important part in transportation. il Bus Transportation 21:170-1 Ap '42

Gals make good as Tide Water gas service station attendants. W. Brunn. il Sales Management 51:20-2 O 10 '42

More women in advertising now than in World war. I. D. Dignam. Ptr Ink 199:16-17+ My 29 '42

Needed, women in government service. D. Meyer. 220p $2 Robert M. McBride & co, 116 E. 16th st, New York '42

New jobs for women. F. C. Minaker. il Am Business 12:22-4 Ap; 23-4, 37-8 My '42

Penn-Greyhound trains women for information service. il Bus Transportation 21:222-3 My '42

Studebaker preps women for dealer mechanic training. il Ptr Ink 201:32 O 30 '42

Sunoco trains fair sex to fill war's vacancies at stations. il Nat Pet N 34:25, 27-8, 30-2 F 11 '42

Vocational interests of high school girls; as inventoried by the Strong and Manson blanks. G. E. Laleger. 102p bibliog(p94-6) $1.60 Teachers college '42

War will increase women in banking; abstract. W. Powers. Bankers M 144:364-5 Ap '42

Wire and wireless communication; trained women in the communications field. R. C. Wakefield. Pub Util 29:496-7 Ap 9 '42

Woman question, etc. W. Powers. Banking 34:32 Ap '42

Women and men's work with instruments. J. Manuele and others. il Instruments 15:12-13 Ja '42

Women in steel. Economist 143:119 Jl 25 '42

Women personnel executives. M. E. Owens. Personnel J 20:298-316 Mr '42

See also

Air lines—Stewardesses
Business women
Insurance, Life—Agents—Women agents
Insurance agents—Women agents
Office workers
Servants
Women as aviators
Women as engineers
Women as miners

China

I've come a long way. H. Kuo. 369p $3 Appleton-Century '42

Germany

Recent aspects of the employment of women in Germany. Int Labour R 45:286-96 Mr '42

Latin America

Women of Americas knit "good neighbor" ties. J. D. Harding. il For Comm W 8:3-5, 33-5 Ag 1 '42

WOMAN'S home companion (periodical)

3,600,000 market baskets. Sales Management 49:84 D 1 '41

WOMEN as aviators

Heroines of the sky. J. Adams and M. Kimball. 295p $2.50 Doubleday '42

Ninety-nines' offer services to government. Aero Digest 41:341 Jl '42

Women with wings. C. E. Planck. 333p $2.75 Harper '42

WOMEN as chemists

Opportunities for women in chemistry. L. W. Woodford. J Chem Educ 19:536-8 N '42

WOMEN as contractors

Can women build better homes? Mrs Pauline Heidelberger, builder. il plans Am Bld 64:50-2+ F '42

WOMEN as engineers

Free-tuition courses in engineering for women; Stevens institute of technology. Science 95:sup10 Ja 16 '42

Women A.I.M.E. members contribute their share in engineering war. Min & Met 23:580-1 N '42

WOMEN as executives

Women bosses. Business Week p44+ O 17 '42

Women personnel executives. M. E. Owens. Personnel J 20:298-316 Mr '42

WOMEN as miners

Women in mines. il Business Week p35+ S 12 '42

Workwomen great success at a Colorado mill. H. L. Tedrow. il Min & Met 23:546 N '42

WOMEN as purchasers

Face powder and lipstick, tops among indispensables; 1,000 women tell P. I. investigators what they can and can't get along without. Ptr Ink 199:13-14 Ap 24 '42

Lady in coveralls wooed by sellers. E. Johns. il Ptr Ink 201:21-3+ O 16 '42

Women of Americas knit "good neighbor" ties. J. D. Harding. il For Comm W 8:3-5, 33-5 Ag 1 '42

WOMEN in aeronautics

Needed, women in aviation. D. Meyer. 219p $2 Robert M. McBride & co, New York '42

See also

Women as aviators

WOMEN'S apparel

Do women want informative labels today? B. S. Bronner. Rayon 23:584 O '42

10,000 women are measured for study on garment sizes. Ind Stand 13:96-7 Ap '42

WOMEN'S apparel shops

Lillian Park avenue, inc. New York city. il plan Arch Rec 91:47 Mr '42

28 shop, Marshall Field & co., Chicago. il plan Arch Forum 75:446-8 D '41

WOMEN'S army auxiliary corps

Benefits for service women. Management R 31:324 S '42

Fabrics for military purposes; WAACS winter uniforms made of covert cloth. il Textile World 92:76 O '42

FDR signs WAAC bill. Comm & Fin Chr 155:1960 My 21 '42

WOMEN'S naval reserve

Authorize Waves; President Roosevelt signed bill establishing the Women's reserve in the navy. Comm & Fin Chr 156:728 Ag 27 '42

Benefits for service women. Management R 31:324 S '42

Decking a Wave; how Marshall Field does it. il Business Week p48 O 31 '42

WOMEN'S periodicals

See also

McCall's magazine

WOMEN'S shops. See Women's apparel shops

WOMEN'S trade union leagues

Women's trade union leagues in Great Britain and the United States of America. G. Boone. 283p bibliog(p265-72) $3.50 Columbia univ. press '42

WOOD

Acid-resisting wood; its advantages and limitations. Chem Age (Lond) 46:55 Ja 24 '42

Aircraft woods; properties and selection data. Aviation 41:157 S '42

Army switches to wood for cargo truck bodies. diags Product Eng 13:580 O '42

Characteristics of woods for aircraft structural plywoods. R. C. Perkins. il Aero Digest 41:181-2, 185-6, 189-90 O '42

Characteristics of woods; maintenance services data sheet; tabulation. Factory Management 100:142 O '42

New age of wood; range of potentialities. il Fortune 26:116-21+ O '42

WOOD *—Continued*

Wood at war; prove mettle in field of plastics. Business Week p38-40 O 31 '42

Wood can do it. Business Week p62+ Ap 18 '42

Wood comes back. P. H. Erbes, jr. il Ptr Ink 200:29-30, 32 Jl 17 '42

Wood for chemical equipment; physical properties; representative makers of wood tanks and pipe for chemical applications. Chem & Met Eng 49:104 S '42

Wood for trucks; Quartermaster corps ready for quick shift from steel for bodies of cargo trucks. Business Week p58 Je 20 '42

Wood in the textile industry. E. Hardy. Textile Col 64:400, 455 Ag-S '42

Wood technology; constitution, properties and uses. H. D. Tiemann. 316p bibliog(p290-2) $3.50 Pitman '42

See also

Bridges, Wooden
Cellulose
Douglas fir
Forests and forestry
Hard woods
Lignin
Lumbering
Maple
Pine
Plywood
Poplar
Redwood
Trees
Wood construction
Wood preservation
Wood pulp

Advertising

How to increase profits from catalog sales; Constantine imported woods. A. Constantine, jr. Ptr Ink 198:48-9 F 20 '42

Analysis

Cellulose content of cotton and southern woods. W. Wan Chen and F. K. Cameron. Ind & Eng Chem 34:224-5 F '42

Cellulose from hardwoods; wood pulp purification. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41

Determination of cellulose in wood by the use of ethanolamine; abstract. P. Bloom and E. C. Jahn. Paper Ind 23:1030-2 Ja '42

Effect of preparation on wood analysis. W. E. Cohen and A. W. Mackney. Pulp & Pa of Can 43:698-701 Ag '42

Proximate analysis of the heartwood and sapwood of some American hardwoods. R. D. Freeman and F. C. Peterson. bibliog Ind & Eng Chem Anal ed 13:803-5 N 15 '41

Sampling and preparing wood for analysis; TAPPI tentative standard T 11 m-42. Paper Tr J 115:38 S 24 '42

Chemistry

Plastics from hydrolyzed lignocellulose. R. Katzen, A. O. Reynolds and D. F. Othmer. flow sheet bibliog il Mod Plastics 20:91-7+ O '42; Same. Am Inst Chem Eng Trans 38: 735-60 Ag '42

Some of the recent developments in lignin chemistry. H. Erdtman. bibliog(55 references) Pulp & Pa of Can 43:253-9 F '42

Studies on lignin and related compounds; high pressure hydrogenation of wood using copper chromite catalyst. H. P. Godard, J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3061-6 N '41

Studies on lignin and related compounds; hydrogenation of wood. J. R. Bower, jr., J. L. McCarthy and H. Hibbert. Am Chem Soc J 63:3066-8 N '41

Studies on lignin and related compounds; hydrogenation studies on maple ethanolysis products. L. M. Cooke, J. L. McCarthy and H. Hibbert. bibliog Am Chem Soc J 63:3052-61 N '41

Wood hydrolysis; a continuous process. R. Katzen and D. F. Othmer. bibliog flow sheet il Ind & Eng Chem 34:314-22 Mr '42

Bibliography

Advances in the chemistry of wood 1941. F. H. Yorston. Pulp & Pa of Can (Convention no) 43:203-5 [F] '42

Decay

See also
Wood preservation

Fireproofing

See Fireproofing

Moisture content

Moisture in wood determined with new electrical instrument. il Sci Am 167:207-8 N '42

Shrinkage and swelling

Urea treatment of lumber. J. F. T. Berliner. bibliog il Mech Eng 64:181-6 Mr '42

Strength

Resin-bonded wood laminates for shell type aircraft structures. A. A. Gassner. bibliog diags J Aeronautical Sci 9:161-71 Mr '42

Testing

Preparation of extractive-free wood; TAPPI tentative standard T 12 m-42. Paper Tr J 115:36 O 22 '42

Report on comparative fire tests of treated and untreated wood. il Am Soc T M Proc 41:238-76 '41

Transportation

Great advance in wood transport; forty years of progress. M. R. Kane. Pulp & Pa of Can 43:633+ Jl '42

Transporting pulpwood. Paper Tr J 115:40 Jl 23 '42

Water transportation for forty years. Pulp & Pa of Can 43:635+ Jl '42

WOOD, Compressed

Compressed impregnated plywood; properties, uses, etc. Product Eng 13:467-8 Ag '42

Densified laminated wood for engineering uses; Jabroc. il diags Engineer 174:219-21 S 11 '42

WOOD, Laminated

Collapsible doors for airplane hangars; laminated wood framing; Garner Field, Texas. il diag Eng N 128:772-4 My 7 '42

Concrete and laminated wood framing; machine shop, built by the Defense plant corp. il diags Eng N 129:566-8 O 22 '42

Densified laminated wood for engineering uses; Jabroc. il diags Engineer 174:219-21 S 11 '42

Glued-laminated wood construction. il Mod Plastics 19:44-5 F '42

Laminated decking speeds pier construction and protects deck concreting in winter. il diags Eng N 128:976-9 Je 18 '42

Laminated densified wood; insulating properties and tooling applications; Jabroc. A. E. L. Jervis. il diags Elec R (Lond) 130: 395-7 Mr 27 '42; Abstract. Elec W 118:1144+ O 3 '42

Laminated lumber speeds huge expansion at Great Lakes naval training station. J. S. Samelson. il Am Bld 64:52-3+ My '42

Laminated timber beams; recreation center in Seattle; with comments by C. J. Hogue. il Eng N 129:97-8 Jl 16 '42

Lumber for bridge work in Sedgwick county, Kansas; abstract. Pub Works 73:18 Mr '42

Resin-bonded wood laminates for shell type aircraft structures. A. A. Gassner. bibliog diags J Aeronautical Sci 9:161-71 Mr '42

Synthetic resins in construction. H. N. Haut. il diags Aviation 41:84-5 Mr; 103, 105+ Ap '42

Timber arches for a laboratory; building for the Army Signal corps. il diag Eng N 128:416-17 Mr 12 '42

Timber structures; recently developed procedures. L. P. Keith. il Civil Eng 12:559-62 O '42

Use of plastics and allied materials in aircraft construction. G. W. DeBell. J Aeronautical Sci 9:341-9 Jl '42; Same. Engineer 174:242-4, 265-6 S 18-25 '42

Vidal process for molded structures. E. E. Miller. il Aviation 41:124-7+ O '42

See also
Plywood

Testing

Tests of glued laminated wood beams impregnated with creosote. W. A. Oliver. il Am Soc T M Proc 41:1198-1211; Discussion. 1212-13 '41

WOOD alcohol. See Methanol

WOOD arches. See Arches, Wood

WOOD as fuel

Gas producer with wood fuel fires rotary kiln. V. J. Azbe. il diag Rock Prod 45:60, 62 Je '42

Sawdust serves as fuel in home furnace. il Sci Am 166:292 Je '42

See also

Boilers—Wood firing

Boilers, Heating—
Wood firing

WOOD carving

Book of wood carving; a text for beginners. C. M. Sayers. 118p $5 Caxton printers, Caldwell, Idaho '42

WOOD construction

Alameda, California; Woodstock, housing authority of the city of Alameda. il plans Arch Rec 91:51 Ap '42

Alien camp built in 23 days. il Eng N 129:358-9 S 10 '42

Blimp hangars set new timber arch record. diags Eng N 129:576-7 O 22 '42

Builder's quiz; how do you stand? diags Am Bld 64:68-9 F '42

Cable-supported roof for grain storage. il Eng N 127:882-3 D 18 '41

Collapsible doors for airplane hangars; laminated wood framing; Garner Field, Texas. il diag Eng N 128:772-4 My 7 '42

Concrete and laminated wood framing; machine shop, built by the Defense plant corp. il diags Eng N 129:566-8 O 22 '42

Creosoted timber replaces concrete; foundation for transformer installation. diag Elec W 117:1841 My 30 '42

Demountable school, prefabricated school for FWA, Pacific Beach, San Diego, Calif. W. H. Hayes. il Arch Rec 91:68-9 My '42

Designed to conserve; simplified substation layout utilizes wood structures. C. E. Baugh. il diags Elec West 89:71 S '42

Economical timber trusses. G. L. Bilderbeck. Eng N 129:621 N 5 '42; Discussion. J. H. Carr, jr. 129:763 D 3 '42

Emergency wood culvert for drainage. il Engineering 154:66 Jl 24 '42

Expansion provides Tacoma plant with 113 by 500-foot clear floor area; Pacific Forest warehouse. il diags Am Bld 64:58-9 Je '42

Fabricating timber structures for war production. il Am Bld 64:44-6 My '42

Fast truss fabrication; mid-western ordnance plant. il Eng N 129:440-1 S 24 '42

FPHA jig tables for field assembly. il diags plans Arch Forum 76:199-203 Ap '42

5,000 house in 5 months; pre-fabricated and partly pre-assembled demountable houses. il plan Eng N 129:212-17 Ag 13 '42

Glued-laminated wood construction. il Mod Plastics 19:44-5 F '42

Heat flow through sunlit wood frame walls; reference data. Heat & Ven 39:58b Jl '42

Houses of wood; designs and plans. il diags plans Arch Rec 91:49-60 Ja '42

Housing built on the double-quick; navy housing project. G. Michelson. il plan Eng N 128:478-80 Mr 26 '42; Same. Sci Am 167:62-3 Ag '42

How to figure strain for wooden beams; chart. Brick & Clay Rec 100:22 Je '42

How to make built-up wood gutters. diags Am Bld 64:87-8 Mr '42

Industrial plant buildings; the all-wood structure is here again. il Factory Management 100:B72-B73 Ap '42

Laminated decking speeds pier construction and protects deck concreting in winter. il diags Eng N 128:976-9 Je 18 '42

Laminated lumber speeds huge expansion at Great Lakes naval training station. J. S. Samelson. il Am Bld 64:52-3+ My '42

Laminated timber beams; recreation center in Seattle; with comments by C. J. Hogue. il Eng N 129:97-8 Jl 16 '42

Large mold loft of timber construction. il Eng N 129:282-4 Ag 27 '42

Large timber hangar built in thirty days. il Roads & Bridges 80:104 O '42

Low-cost schools in war plant areas. il diags Eng N 128:910-11 Je 4 '42

Multi-story building designed in timber; manufacturing and shop building for the Navy. il diags Eng N 129:580-2 O 22 '42

Neighborhood stores for Seattle workers. il Am Bld 64:48-9 Ag '42

New plants of 1941; radio products warehouse. il Factory Management 100:B50-B51 Ap '42

Office designed to save critical materials; wood frame with interior columns of steel filled with concrete. il Eng N 129:636-7 N 5 '42

Plywood girders roof a warehouse; RCA manufacturing co. il diag Eng N 128:625-6 Ap 23 '42

Plywood washers save metal in fabrication of timber trusses. il Eng N 128:934 Je 4 '42

Pre-cut lumber speeds defense housing; Rahway River Park (N.J.); staff report with comments by C. F. MacEvoy. il plan Eng N 127:798-801 D 4 '41

Redwood swimming pool. il diag Am Bld 63:84 D '41

Site assembly methods speed housing construction. il Eng N 128:18 Ja 1 '42

Strong wood construction replaces steel pipe. il Product Eng 13:436 Ag '42

Structural panels build quick homes for war workers. B. L. Johnson. il diags plans Am Bld 64:40-3+ S '42

Structural wood design. L. P. Keith. il Roads & Bridges 80:34-5+ S '42

Substantial service roads speed army base construction; warehouse for a quartermaster base; concrete and wood construction. il Eng N 128:768-71 My 7 '42

Timber arches for a laboratory; building for the Army Signal corps. il diag Eng N 128:416-17 Mr 12 '42

Timber arches give clear floor for navy drill hall. il Eng N 129:597 O 29 '42

Timber connectors find increasing use. il Ry Age 112:553-4 Mr 14 '42

Timber economy. Engineer 173:139 F 13 '42

Timber frame substation saves materials. H. N. Fox. il Eng N 128:487 Mr 26 '42; Same. Elec W 117:1382 Ap 18 '42

Timber structures; recently developed procedures. L. P. Keith. il Civil Eng 12:559-62 O '42

Timber takes its place in construction. H. C. Berckes. il Manuf Rec 111:24-5+ Je '42

Timber trusses of 77.5-ft. span sold, ready-made, to shipyard. il Eng N 128:1041 Je 25 '42

Timber trusses with steel diagonals; aircraft plant in eastern Canada. il diag Eng N 129:589 O 22 '42

Trained timber designers needed. H. J. Hansen. il Civil Eng 12:607-10 N '42

Treated lumber in Los Angeles war homes. il plan Am Bld 64:64-5 Je '42

Typical designs of timber structures. Timber engineering co, 1319 18th st, N.W, Washington, D.C. '42

Wood cornices, their design and construction. R. J. Alexander. diags Am Bld 64:52-3+ Ag '42

Wood factory construction; with time-saver standards. diags Arch Rec 91:75-8 Ja '42

Wood frame hangar for Northwest airlines. il Aviation 41:163 Ap '42

Wood-frame substation for an army camp saves steel. il Eng N 129:505 O 8 '42

Wood replaces steel sans special hardware. il diags Elec W 117:1843 My 30 '42

Wood sash for industrial buildings conserves steel. il diags Steel 110:89-90 Je 22 '42; Same cond. Am Bld 64:74+ Je '42

See also

Bridges, Wooden

Columns, Wooden

Plywood

Wood, Laminated

WOOD containers

Engineered containers designed and constructed of wood. G. T. Waine. il Steel 110:98, 100 My 18 '42

What woods are best for military shipping boxes? T. A. Carlson. il Mod Packaging 15:41+ F '42

See also

Barrels

Boxes

WOOD cutting. See Lumbering

WOOD distillation

Behavior of some lignin preparations in the molecular still. J. F. Hechtman. bibliog il diag Paper Tr J 114:45-50 My 28 '42; Abstract. Pulp & Pa of Can 43:380 Ap '42

Naval stores and terpene chemicals; flow sheet of Newport industries, Pensacola plant. il Chem & Met Eng 49:112-15 Mr '42

WOOD drying

British mines plan to dry their posts underground. J. R. Hopkins. Coal Age 47:79 Je '42

Urea treatment of lumber. J. F. T. Berliner. bibliog il Mech Eng 64:181-6 Mr '42

WOOD finishing

Wood finishing, plain and decorative. F. N. Vanderwalker. 361p $2 Drake '40

See also

Lacquer and lacquering
Varnish and varnishing

WOOD floors. See Floors. Wood

WOOD flour

Fillers; swelling properties and structure. R. J. Kent and J. Seiberlich. il Mod Plastics 19:65-9+ Je '42

WOOD grinders

Effect of log brooming on groundwood rejects. F. B. Monroe and J. Edwards. Pulp & Pa of Can (Convention no) 43:149-50 [F] '42

Forty years of pulp grinder progress. W. W. Holland. Pulp & Pa of Can 43:581-2 Jl '42

Forty years progress in pulp stones and burrs. D. E. Dupuis. Pulp & Pa of Can 43:578-81 Jl '42

Groundwood at 5400 surface feet per minute. J. B. Jones and W. W. Holland. Pulp & Pa of Can (Convention no) 43:141-4+ [F] '42

Groundwood mill control at Clarke City. E. Overstrom. il Pulp & Pa of Can 43:295-7 Mr '42

High pressure front shower grinder operation on hydraulic grinders. J. D. Brown. diag Pulp & Pa of Can (Convention no) 43:148-9 [F] '42

Instruments in the pulp and paper industry; grinder temperature controller. J. N. Franklin. Pulp & Pa of Can 43:434-5+ My '42

Welding method for grinder shaft threads. J. H. M. Jones. Pulp & Pa of Can (Convention no) 43:169 [F] '42

WOOD handling

Data and observations on cable conveyor performance; report of the wood handling sub-committee, Canadian pulp & paper association. Pulp & Pa of Can (Convention no) 43:101-8 [F] '42

Improvements in log hauls and slashers; forty years of progress. Pulp & Pa of Can 43:575-6 Jl '42

Wood handling system of a modern newsprint mill; Lake St John power & paper co. F. R. MacDonald. il Pulp & Pa of Can 43:366-8 Ap '42

See also

Lumber handling

WOOD measurement

Four methods of scaling logs. Pulp & Pa of Can 43:776 S '42

WOOD oil

See also

Palm oil
Pine oil
Tall oil
Tung oil

WOOD paneling. See Paneling

WOOD preservation

Almost 100 miles of gangways; Lehigh navigation coal co. timber survey; abstract. P. L. Burkhart. Coal Age 47:89-90 Mr '42

American wood preservers' assn, 38th annual meeting, Minneapolis, Jan. 27-29. Ry Age 112:332-7 F 7 '42

Creosoted black gum bridge floors. Pub Works 72:30 N '41

Creosoted poles used for 63-mile line. il Elec W 117:309 Ja 24 '42

Creosoted-timber culverts on the Alaska highway. il Roads & Bridges 80:44+ O '42

Pentachlorphenol substituted for creosote; Southern California Edison co. devises preservative treatment for western red cedar poles. F. B. Doolittle. il Elec West 89:58-61 O '42

Poles and pole treatment. R. H. Colley. bibliog maps Elec Eng 61:Trans 685-91 S '42

Preservation of pine poles, fir crossarms. Elec W 117:104+ Ja 10 '42

Preservation of timber. R. L. Brooks. bibliog Inst Pet J 28:63-77; Discussion. 78-81 Ap '42

Preservative treatment of wood with pentachlorphenol. D. Chapman. Edison Elec Inst Bul 10:57-8 F '42

Sealed wood deck construction. il Roads & Sts 85:41 Je '42

Seventy years of wooden sidewalks; modern walks of Wolmanized lumber, Brookline, Mass. il Roads & Sts 85:48-9 O '42

Special tool treats field holes in wood. H. N. Fox. diag Elec W 117:2092 Je 13 '42

Specification standards for government work; wood preservatives. H. R. Sleeper. Arch Rec 91:64-5 Mr '42

Tests of glued laminated wood beams impregnated with creosote. W. A. Oliver. il Am Soc T M Proc 41:1198-1211; Discussion. 1212-13 '41

Timber preservation; use of Cuprinol. Can Min J 63:367 Je '42

Treated timber for mine roof support. il Min Cong J 28:46-7 O '42

Treated timber output increased last year. R. K. Helphenstine, jr. Eng N 129:268 Ag 20 '42

Urea treatment of lumber. J. F. T. Berliner. bibliog il Mech Eng 64:181-6 Mr '42; Discussion. 64:678-80 S '42

Wolmanized lumber in prefabricated box cars for South America. il Ry Age 113:603 O 17 '42

Wolmanized lumber on new Neches River bridge. il Ry Age 112:552 Mr 14 '42

Wood for metal; use of treated timber. Business Week p67 F 7 '42

Wood piles with mortar coating save time and critical materials. il Eng N 129:624-6 N 5 '42

Wood preservation; A.R.E.A. committee report. Ry Age 112:604 Mr 21 '42

Wood preservation established large gains in 1941. il Ry Age 113:273-5 Ag 15 '42

See also

Creosote
Fireproofing
Paint. Protective
Varnish and varnishing

WOOD preservatives

Outlook for preservatives. G. M. Hunt. Ry Age 112:336-7 F 7 '42

Phenyl mercuric oleate; skin irritant properties. C. P. McCord, S. F. Meek and T. A. Neal. J Ind Hygiene 23:466-9 D '41

Testing

Expected service effectiveness of preservative treatments applied to millwork; a laboratory method of comparison. J. B. Mellecker and M. W. Baker. il Ind & Eng Chem Anal ed 14:305-8 Ap 15 '42

WOOD products

Chemical utilization of wood waste. R. S. Aries. bibliog il Chem Ind 51:190-7 Ag '42

Industrial research in the United States during 1941; dendrotechnology. W. A. Hamor. Chem & Eng N 20:22-4 Ja 10 '42

New age of wood; range of potentialities. il Fortune 26:116-21+ O '42

New wood products ease metal stringency. il Business Week p18 S 5 '42

Recovery of fats, waxes, resins, and turpentine from wood. M. W. Bray. bibliog Paper Tr J 115:41-2 S 3 '42

Wood comes back. P. H. Erbes, jr. il Ptr Ink 200:29-30, 32 Jl 17 '42

See also

Alcohol
Cellulose
Masonite corporation
Wood pulp

WOOD pulp

Alaska's pulp producing possibilities. L. C. Mann. il Paper Ind 23:1195-7+ Mr '42

Allocation system for wood pulp is ordered. Comm & Fin Chr 155:1168 Mr 19 '42

WOOD pulp—*Continued*

Bleach requirement of pulp; TAPPI tentative standard T 219 m-42. Paper Tr J 115: 35-6 Jl 16 '42

Bottlenecks in the sulphite industry. A. D. Merrill. il Paper Ind 23:991-3 Ja '42

Cellulose from hardwoods; wood pulp purification; parallel treatments with softwood pulps. G. A. Richter. il Ind & Eng Chem 33:1518-28 D '41

Chip control; Williams mechanical screening device. F. M. Williams. Paper Tr J 115:20 Jl 2 '42

Convenient six-tube vapor sorption apparatus; sorption of water vapor by spruce sulfite pulp and cotton linters alpha-cellulose. A. J. Stamm and S. A. Woodruff. bibliog diags Ind & Eng Chem Anal ed 13: 836-8 N 15 '41

Development of naval stores and pulpwood supplies from the pinus mercusi of northern Sumatra. D. G. Moon. il Paper Tr J 114: 34-7 Ap 16 '42; Same cond. Paper Ind 24: 89-90 Ap '42

Dissolving pulp in war-time; supplementing linters with wood pulp in production of smokeless powder, rayon and plastics. A. D. Styles. Chem & Met Eng 48:80-2 D '41; Excerpts. Rayon 23:116 F '42

Effects of various reagents on cotton and pulp; abstract. A. Marschall. Paper Ind 24: 652 S '42

Flow of sulphite pulp slurries over weirs. R. P. Whitney and J. D. McNitt. Paper Tr J 115:33-5 Jl 30 '42

Government announces pulp allocations. Paper Tr J 114:9 Ja 29 '42

Government to regulate wood pulp supply. Paper Tr J 114:7, 21 Mr 19 '42

Groundwood at 5400 surface feet per minute. J. B. Jones and W. W. Holland. Pulp & Pa of Can (Convention no) 43:141-4+ [F] '42

Gulf pulp and paper company, limited; pioneer pulp mill sees developments. J. A. Tallon; E. Overstrom. il Pulp & Pa of Can 43:293-7 Mr '42

Hardwood cellulose; abstract. W. Klauditz. Paper Ind 24:448 Jl '42

Hybrid poplars. P. Vogelsang. Paper Tr J 113:38-40 N 13 '41; Same cond. Paper Ind 23:824-6 N '41

Improvements in log hauls and slashers; forty years of progress. Pulp & Pa of Can 43:575-6 Jl '42

Measurement and influence of fiber length. J. d'A. Clark. Paper Ind 24:637-8+ S '42

Modern pulp and paper making; a practical treatise. G. S. Witham. 2d ed 705p $6.75 Reinhold pub. corp. '42

One million trees for future pulp. il Mod Packaging 15:51+ My '42

Phenomenal developments in American rayon pulp. il Rayon 23:376-9 Jl '42

Pulp market felt pinch in highest grades of unbleached sulphite and kraft. O. F. Swanson. Paper Tr J 114:48, 50-1 F 19 '42

Pulping loblolly pine heartwood with calcium, magnesium, and sodium base sulphite liquors. J. N. McGovern and G. H. Chidester. Paper Ind 23:1128+ F '42

Pulping sweetgum by alkaline processes. M. W. Bray and J. S. Martin. il Paper Tr J 113:35-46 D 18 '41

Pulpwood supplies. D. R. Cameron. Pulp & Pa of Can (Convention no) 43:187, 189, 191-2 [F] '42

Pumping problems in the paper industry. M. L. Edwards. diag Power Pl Eng 46:83-4 Ap '42

Rough pulpwood operating in northwestern Maine, 1935-1940. C. M. Hilton. 197p pa $1.50 Univ. of Maine, Orono '42

Sodium hydrosulphide as a pulping agent. M. A. Buchanan and C. M. Koon. Paper Tr J 115:116 O 1 '42

Some observations on the effect of wood stain on pulp cleanliness. L. J. Rioux and M. J. Barsalou. Pulp & Pa of Can (Convention no) 43:151-2 [F] '42

Studies in classification and refining of groundwood pulp. J. D. Brown. bibliog il Pulp & Pa of Can (Convention no) 43: 131-40 [F] '42

U.S. announces sulphite pulp allocation program. Paper Tr J 114:11 Ja 15 '42

WPB closes three Puget Sound pulp mills; prohibits shipments from Pacific coast to East except types used for explosives and rayon. Paper Tr J 115:13 O 29 '42; Same. Comm & Fin Chr 156:1638 N 5 '42

Waste in pulp manufacture. W. H. Birchard. flow sheets Pulp & Pa of Can (Convention no) 43:153-6 [F] '42

Wood pulp a necessity in the war effort. Paper Tr J 115:54 O 1 '42

Woodpulp plastic products. A. W. Uris. il Mod Plastics 19:53-4+ Jl '42

See also

Paper
Paper making
Wood grinders

Analysis

Fibrous raw materials testing committee report, 1941. B. E. Lauer. bibliog Paper Tr J 114:29-30 Mr 12 '42

Monoethanolamine extraction of wood for the determination of cellulose. P. Bloom, E. C. Jahn and L. E. Wise. bibliog Paper Tr J 115:33-40 S 3 '42

Bibliography

Chemical testing methods literature review. B. L. Browning. Paper Tr J 114:41-2 Mr 19 '42

Prices

Maximum U.S. pulp prices established by O.P.A. Pulp & Pa of Can 43:468+ My '42

OPA establishes maximum pulp prices. Paper Tr J 114:7, 13-14 Ap 23 '42

OPA regulates wood-pulp prices. For Comm W 7:25-6 My 9 '42

Pulpwood prices frozen in Lakes area. Paper Tr J 115:11 N 5 '42; Same. Pulp & Pa of Can 43:957-8 D '42

Wood pulp amendment now effective. Paper Tr J 115:34 Jl 9 '42

Wood pulp prices unchanged. Paper Tr J 113:19 D 4 '41

Statistics

Production of wood pulp and consumption of pulpwood in 1940. Paper Tr J 114:12, 14 Ja 8 '42

Testing

Absorption of chemicals from neutral sodium sulphite liquor by sweetgum chips. J. N. McGovern, J. N. Evert and G. H. Chidester. Paper Tr J 113:27-31 D 4 '41

Alkaline purification of cellulose. G. Goldfinger and H. Mark. bibliog Paper Tr J 115: 27-9 O 15 '42

Certified pulp testers. Pulp & Pa of Can 43: 694+ Ag '42

Composite report of three groundwood studies. I. H. Andrews; J. D. Brown; F. B. Monroe and J. Edwards. diags Pulp & Pa of Can (Convention no) 43:147-50 [F] '42

Drainage time and drainage factor of pulp; TAPPI tentative standard T 221 m-42. Paper Tr J 115:25-6 O 22 '42; Same. Pulp & Pa of Can 43:956+ D '42

Fiberizing of kraft screenings for paper and paperboard furnishes. C. K. Textor. il Paper Tr J 114:42-5 My 7 '42

Fibrous raw materials testing committee report, 1941. B. E. Lauer. bibliog Paper Tr J 114:29-30 Mr 12 '42

Further comparison of sodium- and calcium-base sulphite acids. M. O. Schur and R. E. Baker. Paper Tr J 115:33-40 S 17 '42

Lignins isolated in the presence of butanol. H. Y. Charbonnier. bibliog Paper Tr J 114: 31-6 Mr 12 '42

Nature of lignin residues in unbleached and partially bleached sulphite pulp. L. L. Larson. Paper Tr J 113:25-31 N 20 '41

Preparation of extractive-free wood; TAPPI tentative standard T 12 m-42. Paper Tr J 115:36 O 22 '42

Pulping studies on selected hybrid poplars. M. W. Bray and B. H. Paul. Paper Tr J 115: 33-8 O 15 '42

WOOD pulp—Testing—*Continued*

Screen analysis of pulpwood chips; study of screening variables. C. L. Dickinson and B. E. Lauer. bibliog il diags Paper Tr J 114:27-32 Ap 23 '42

Some refinements in permanganate number test methods. C. L. Smith. Paper Ind 24:603 S '42

Studies in steeping procedure. il Rayon 23:145-7, 254-6 Mr, My '42

Study of pH factor in hypochlorite bleaching of wood pulp; two-stage treatment of sulphite pulp. F. Casciani and G. K. Storin. Paper Tr J 115:89-97 O 1 '42

Bibliography

Some developments in pulp and paper testing during the twelve months ending September 1, 1941. Pulp & Pa of Can (Convention no) 43:174, 199-201 [F] '42

WOOD research

Advances in the chemistry of wood 1941. F. H. Yorston. Pulp & Pa of Can (Convention no) 43:203-5 [F] '42

Some of the recent developments in lignin chemistry. H. Erdtman. bibliog(55 references) Pulp & Pa of Can 43:253-9 F '42

WOOD saccharification

Wood hydrolysis; a continuous process. R. Katzen and D. F. Othmer. bibliog flow sheet il Ind & Eng Chem 34:314-22 Mr '42

WOOD screws. See Screws, Wood

WOOD using industries

New age of wood; range of potentialities. il Fortune 26:116-21+ O '42

See also

Boxes
Furniture

WOOD waste

Chemical utilization of wood waste. R. S. Aries. bibliog il Chem Ind 51:190-7 Ag '42

Plant-designed woodburning setup meets test of experience; Standard furniture co.'s plant. il diag Power 85:903-5 D '41

Rating and care of domestic sawdust burners. E. C. Willey. (Bul. ser. no. 15) 27p bibliog(p23) Oregon state college, Engineering exp. station, Corvallis '41

Relaying shavings. R. L. Grayford. diags Sheet Metal Worker 33:31 Ap '42

Utilization of wood refuse for steam raising. R. B. Gillham. Inst Mech Eng J & Proc 147:Proc 32-9, pl 1-2 Ap '42; Same cond. Engineer 173:71-3 Ja 23 '42; Same cond. Engineering 153:198-200 Mr 6 '42; Discussion. diags Inst Mech Eng J & Proc 147: Proc 40-8, 185-8 Ap, S '42; Engineering 153: 55-6 Ja 16 '42

See also

Sawdust
Wood as fuel

WOODEN bridges. See Bridges, Wooden

WOODEN columns. See Columns, Wooden

WOODWARD, Thomas Mullen, 1884-

Key men of the Maritime commission. Marine Eng 47:166 O '42

WOODWARD iron company

Stocks in strategic market position. il Mag of Wall St 69:705-6 Ap 4 '42

WOODWORK

American veneer packages. F. E. Coyne. 127p $1.50 Lumber buyers' pub. co, 431 S. Dearborn st, Chicago '41

Build and sell wood specialties. il diags Am Bld 64:82-5 O '42

Handwork in wood. W. Noyes. rev ed 258p $3 Manual arts press, Peoria, Ill. '41

How to work with tools and wood, for the home craftsman. rev ed 188p $1 Stanley tools division, Stanley works, New Britain, Conn. '42

Popular mechanics What to make, 1943; a book of practical workshop projects. 220p $1.25 Grosset & Dunlap, 1107 Broadway, New York '42

Shopcrafter's handbook. N. L. Burbank and E. M. Mitchell, comps. 141p $2 Simmons-Boardman '42

Woodcraft. W. H. Johnson and L. V. Newkirk. 88p bibliog(p87-8) $2; text ed $1.60 Webb book pub. co, St Paul '42

Woodworking for fun. A. J. La Berge. 104p $2.25 Manual arts press '41

Woodworking projects and upholstery. W. T. Baxter and P. G. Lackey. 251p $2.50 Van Nostrand '41

Woodworking workbook, for high schools. T. Nichols and H. L. Stiles. 61p bibliog(p3) pa 68c Manual arts press '41

See also

Furniture
Paneling
Plywood
Woodworking machinery

WOODWORKERS

Hazards of woodworking-machine employments for young workers; a report of an investigation made under the child-labor provisions of the Fair labor standards act of 1938. 73p U.S. Children's bur, Industrial div, Washington '41

WOODWORKING machinery

Modern woodworking; H. Morris & co. il Elec R (Lond) 131:449-54 O 9 '42

Accidents

Occupational hazards to young workers; woodworking machines. U S Children's Bur Pub 277:1-53; pa 10c Supt. of doc. '42

Power-saw accidents, their circumstances and causes. Nat Safety N 45:28-9 Je '42

Control

Sequence operations speeded with solenoids. D. K. Frost. il Machine Design 14:113-14 Ap '42

WOODWORKING shops

Converting the small plant; from church work to navy work; Thomas & company, Worcester, Mass. R. G. Dick. il Factory Management 100:103 Ag '42

WOOL

Adsorption of wetting agents by wool. G. C. Le Compte and J. W. Creely. Am Dyestuff Rep 31:121-3 Mr 2 '42

Cause of crimp in wool. A. F. Barker. il Textile World 92:92-3 My '42

Elasticity of wool; relation to chemical structure. M. Harris, L. R. Mizell and L. Fourt. bibliog Ind & Eng Chem 34:833-8 Jl '42; Same. J Research Nat Bur Stand 29:73-86 Jl '42; Same. Am Dyestuff Rep 31:376-80, 392-4 Ag 3 '42

Electric recording marking counter for the consecutive counting of small objects; counting projected cross sections of wool fibers. H. W. Wolf. diag Science 96:409-10 O 30 '42

Examination of the relation between wool quality and fibre diameter. J. L. Stoves. bibliog Textile Inst J 32:T221-6 D '41

Nonfelting wool production creates new chemical outlets. G. Abrahamson. Chem & Eng N 20:527-8 Ap 25 '42; Same. Rayon 23:366 Je '42

Non-felting wool used widely in England. G. Abrahamson. il Textile World 92:82 Je '42

Wool characteristics in relation to Navajo weaving. J. O. Grandstaff. bibliog il pls diag U S Agric Tech Bul 790:1-36 '42

Wool industry prospectus. J. B. Hosmer and M. A. Strickland. (State eng. exp. sta. bul. v. 3, no. 2) 56p pa 75c Georgia school of technology, Atlanta '41

See also

Dyes and dyeing—Wool
Felt
Mothproofing preparations
Rayon yarn—Wool mixtures
Wool trade
Yarn

Analysis

Adsorption of wetting agents by wool. G. C. Le Compte and J. W. Creely. Am Dyestuff Rep 31:121-3 Mr 2 '42

Comparative study of four methods for the quantitative determination of wool in mixed fabrics. L. E. Weidenhammer. bibliog Am Dyestuff Rep 31:441-5 S 14 '42

Government wool and part wool fabrics standards. Textile Col 64:71-3 F '42

WOOL—Analysis—*Continued*

Oxidation of wool keratin by potassium dichromate. R. O. Donohue and R. Edgar. Am Dyestuff Rep 31:101-4, 123 bibliog(p123) Mr 2 '42

Sulphuric acid carbonization method adapted for mixed-fabric analysis. Textile Col 63: 670+ D '41

Blending

Blending dyed fibers. V. Rosatto. Textile World 92:84 Ag '42

Blending wool and rayon staple fibers. H. R. Mauersberger. Rayon 23:314-16 Je '42

Blending wools for army fabrics. W. F. Neumann. il Textile World 92:60-1 Ja '42

Service study of three blanket fabrics made from various blends of wool and mohair. R. E. Rogers, M. B. Hays and J. I. Hardy. bibliog diags Am Dyestuff Rep 31:318-24 Je 22 '42

Chemistry

Calculation of protein-anion affinity constants from acid titration data. J. Steinhardt. bibliog J Research Nat Bur Stand 28:191-9 F '42

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. bibliog il Ind & Eng Chem 34:1398-1402 N '42; Same. J Research Nat Bur Stand 29:381-9 N '42; Same. Textile Col 64: 565-70 D '42; Abstract. Textile World 92:76-7 N '42

Cystine linkage in wool fibers; abstract. W. I. Patterson and others. Textile Col 64:63-5 F '42

Dependence of the indigestibility of wool protein upon its polymeric structure. W. B. Geiger and M. Harris. bibliog J Research Nat Bur Stand 29:271-7 O '42

Elasticity of wool; relation to chemical structure. M. Harris, L. R. Mizell and L. Fourt. bibliog Ind & Eng Chem 34:833-8 Jl '42; Same. J Research Nat Bur Stand 29:73-86 Jl '42; Same. Am Dyestuff Rep 31:376-80, 392-4 Ag 3 '42

Further investigations of the affinities of anions of strong acids for wool protein. J. Steinhardt, C. H. Fugitt and M. Harris. bibliog J Research Nat Bur Stand 28:201-16 F '42; Same abr. Am Dyestuff Rep 31:77-8, 97-100 F 16 '42

Methylation of wool; abstract. Blackburn, Carter and Phillips. Textile Col 64:174-5 Ap '42

Molecular structure of protein fibers; abstract. D. J. Lloyd. Textile Col 63:616 N '41

Nature of the resistance of wool to digestion by enzymes. W. B. Geiger and others. bibliog il Am Dyestuff Rep 30:659-64 N 24 '41; Same. J Research Nat Bur Stand 27:459-68 N '41

Oxidation of wool keratin by potassium dichromate. R. O. Donohue and R. Edgar. Am Dyestuff Rep 31:101-4, 123 bibliog(p123) Mr 2 '42

Conservation

Viscose staple fiber allocation for worsted mills. Rayon 23:192-3 Ap '42

Prices

Price ceilings put on wool for army. Comm & Fin Chr 155:442 Ja 29 '42

Sulfur content

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. bibliog il Ind & Eng Chem 34:1398-1402 N '42; Same. J Research Nat Bur Stand 29:381-9 N '42; Same. Textile Col 64: 565-70 D '42; Abstract. Textile World 92: 76-7 N '42

Testing

New technique for the analysis of fibre length distribution in wool. H. E. Daniels. bibliog pl Textile Inst J 33:T137-50 Ag '42

WOOL, Artificial

New textile fibers. L. P. Rendell. Textile Col 63:695-6 D '41

Staple fiber closest to wool fiber; Kohorn fiber. H. H. Kohorn. il Rayon 23:219 Ap '42

See also
Aralac

By-products

Continental cell-wool industry; recovery of chemical products. Chem Age (Lond) 46:247 My 9 '42

WOOL, Effect of acids on

Calculation of protein-anion affinity constants from acid titration data. J. Steinhardt. bibliog J Research Nat Bur Stand 28:191-9 F '42

Further investigations of the affinities of anions of strong acids for wool protein. J. Steinhardt, C. H. Fugitt and M. Harris. bibliog J Research Nat Bur Stand 28:201-16 F '42; Same abr. Am Dyestuff Rep 31:77-8, 97-100 F 16 '42

WOOL, Effect of alkalies on

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. bibliog il Ind & Eng Chem 34:1398-1400 N '42; Same. J Research Nat Bur Stand 29:381-9 N '42; Abstract. Textile World 92:76-7 N '42

Recent research on wool and its application. W. O. Dolby. Textile Col 64:337-9, 377-8+ Jl-Ag '42

WOOL, Mineral. See Mineral wool

WOOL, Unshrinkable

Change-over in unshrinkable wool finishes. Textile Col 64:406+ Ag '42

Recent research on wool and its application. W. O. Dolby. Textile Col 64:337-9, 377-8+ Jl-Ag '42

Softening of unshrinkable wool. A. J. Hall. Textile Col 64:331+ Jl '42

Unshrinkable woolen and worsted fabrics. A. J. Hall. Textile Col 64:275 Je '42

WOOL carbonizing

Carbonizing woolen cloth with infra-red lamps. diag Rayon 23:177 Mr '42; Same cond. Textile World 92:90 Mr '42

WOOL carding

Returning waste in carding. G. J. Wakefield. Textile World 92:113-14 Ap '42

WOOL cleaning

See also
Wool scouring

WOOL combing

Fuller dabbing brush for Noble combs. il Textile World 92:107-8 F '42

WOOL fat

Separating wool fat; patent. Soap & San Chem 18:56 Ag '42

Wool fat in paints. Paint Oil & Chem R 104: 22 Je 4 '42

Wool grease defined as grease, not wax. Oil Paint & Drug Rep 141:3+ Ja 5 '42

See also
Degras

WOOL finishing. See Woolen and worsted finishing

WOOL research

Calculation of protein-anion affinity constants from acid titration data. J. Steinhardt. bibliog J Research Nat Bur Stand 28:191-9 F '42

Cause of crimp in wool. A. F. Barker. il Textile World 92:92-3 My '42

Chemically modified wools of enhanced stability. W. B. Geiger, F. F. Kobayashi and M. Harris. bibliog il Ind & Eng Chem 34:1398-1402 N '42; Same. J Research Nat Bur Stand 29:381-9 N '42; Same. Textile Col 64: 565-70 D '42; Abstract. Textile World 96: 76-7 N '42

Dependence of the indigestibility of wool protein upon its polymeric structure. W. B. Geiger and M. Harris. bibliog J Research Nat Bur Stand 29:271-7 O '42

Elasticity of wool; relation to chemical structure. M. Harris, L. R. Mizell and L. Fourt. bibliog Ind & Eng Chem 34:833-8 Jl '42; Same. J Research Nat Bur Stand 29:73-86 Jl '42; Same. Am Dyestuff Rep 31:376-80, 392-4 Ag 3 '42

WOOL research—*Continued*

Further investigations of the affinities of anions of strong acids for wool protein. J. Steinhardt, C. H. Fugitt and M. Harris. bibliog J Research Nat Bur Stand 28:201-16 F '42; Same abr. Am Dyestuff Rep 31:77-8, 97-100 F 16 '42

Nature of the resistance of wool to digestion by enzymes. W. B. Geiger and others. bibliog il Am Dyestuff Rep 30:659-64 N 24 '41; Same. J Research Nat Bur Stand 27:459-68 N '41

Recent research on wool and its application. W. O. Dolby. Textile Col 64:337-9, 377-8+ Jl-Ag '42

WOOL sampling

Sampling of imported wool for the determination of clean wool content. H. J. Wollner and L. Tanner. bibliog Ind & Eng Chem Anal ed 13:883-7 D 15 '41

WOOL scouring

Cold scouring of wool piece goods and unions. Textile Col 64:198 Ap '42

Effect of temperature in scouring wool. G. C. LeCompte and J. W. Creely. Am Dyestuff Rep 31:453-6 S 14 '42

Method of improving the removal of mineral oil from wool. R. C. Palmer. Soc Dyers & Col J 58:162-3 Ag '42

Scouring raw wool. Textile Col 64:124+ Mr '42

WOOL trade

Business behavior, 1919-1922. W. F. Payne. bibliog J Business 15:sup116-21 Jl-O '42

New rayon staple allocation to wool manufacturers issued. Rayon 23:491 Ag '42

Wool monopoly; almost all of world supply is controlled by United nations. Business Week p72-4 Je 20 '42

Statistics

Wool production in principal southern hemisphere exporting countries, 1930-1941; chart. For Comm W 6:27 Ja 3 '42

Australia

Australia wool industry. Textile Col 64:98 F '42

Australia's wool. M. E. Wambsganss. il For Comm W 7:6-7+ Je 27 '42; Same abr. Textile Col 64:384-5 Ag '42

Canada

Canadian government encourages expansion in domestic wool production. For Comm W 7:22 Ap 11 '42

Great Britain

Control of wool textile trade. Economist 142:902-3 Je 27 '42

Exports of wool textiles, 1938-1941. Economist 142:338 Mr 7 '42

Production regulations in United Kingdom. For Comm W 9:28 O 17 '42

Wool control. Economist 143:281 Ag 29 '42

Wool textiles exports; increased wool buying prices. Economist 142:766 My 30 '42

Wool textiles in 1941. Economist 142:sup26+ Mr 14 '42

Oregon

Pioneer woolen mills in Oregon; history of wool and the woolen textile industry in Oregon, 1811-1875. A. L. Lomax. 312p $2.50 Binfords & Mort, Portland, Ore. '41

South Africa

Government regulations governing the packing and marking of wool. For Comm W 5:31 D 20 '41

South Carolina

Opportunity for the woolen and worsted industry in South Carolina. 45p State planning board, 100 Calhoun state office bldg, Columbia, S.C. '42

Southeastern states

Wool industry prospectus. J. B. Hosmer and M. A. Strickland. (State eng. exp. sta. bul. v. 3, no. 2) 56p pa 75c Georgia school of technology, Atlanta '41

Turkey

No private trading now in Turkey. For Comm W 9:31 N 7 '42

United States

Current status of wool textiles. A. Besse. Harvard Business R 20 no 2:223-32 [Ja] '42

Cutting our cloth; U.S. fitting wool supply to war needs. Business Week p27-9+ Ja 31 '42

Developments in the field of commodities; military needs press on wool supplies. Barron's 22:6 Mr 2 '42

Help for the American wool grower; pressure group gets a QM order that new procurements be 100% domestic. Textile World 92:87 S '42

OPM limits wool use for first quarter. Comm & Fin Chr 155:234 Ja 15 '42

Wool textile industry in 1942. M. Pendleton. Comm & Fin Chr 155:468-9 Ja 29 '42

WOOL waste

Keep your waste under control; methods for collection and disposal which will reduce costs. W. G. Holman. il Textile World 92:94-5 S '42

Returning waste in carding. G. J. Wakefield. Textile World 92:113-14 Ap '42

WOOLEN and worsted fabrics

Current status of wool textiles. A. Besse. Harvard Business R 20 no 2:223-32 [Ja] '42

Fabrics for military purposes; two navy woolens. Textile World 92:74 Mr '42

Fabrics for military use; uniform twill modified; facing-cloth specification. il Textile World 92:59+ Ja '42

Fabrics for national defense; elastiques, silesia lining cloth and woolen suiting. Textile World 91:86 N '41

Fabrics for national defense; wool lining fabric, unbleached cotton drill, and pressed wool felt. il Textile World 91:78 D '41

Interesting design possibilities; fabrics produced on hand-loom are duplicated on power machines. F. W. Sterling. il diags Textile World 92:100 Ag; 92-3 O '42

Moth protection of wool goods. Rayon 23:306 My '42

Preventing moth damage in wool fabrics. Consumers' Research Bul 9:24 My '42

QM's wool goods inspection plan. Textile World 92:65 Je '42

Rainbow khaki for Britain; five bright hued wools blended together. Textile Col 64:284 Je '42

Redwood textile; fiber from bark now being sold by Pacific lumber co. for mixing with wool. il Business Week p55-6 Ja 17 '42

Washing of cotton cellulose, regenerated-cellulose rayon, cellulose-acetate rayon, silk, wild silk, and wool with soap, silicated soap and sulfated alcohol. F. B. Castonguay, D. O. Leekley and R. Edgar. bibliog (80 references) Am Dyestuff Rep 31:421-6+ Ag 31 '42

Waterproofing heavy woolens by aluminium acetate. W. R. Lang. Textile Col 64:300 Je '42

Why does the QM reject fabrics? H. P. Galloway. il Textile World 91:70-1 D '41

See also

Carpets
Dyes and dyeing—Wool
Felt
Rayon fabrics—Wool mixtures

Analysis

Government wool and part wool fabrics standards. Textile Col 64:71-3 F '42

Cotton mixtures

Comparative study of four methods for the quantitative determination of wool in mixed fabrics. L. E. Weidenhammer. bibliog Am Dyestuff Rep 31:441-5 S 14 '42

Finishing O.D. lining cloth; pointers on fulling, scouring, and other operations for this wool-cotton blend. D. Welsh. il Textile World 92:66 Jl '42

See also Woolen and worsted yarn—Cotton mixtures

WOOLEN and worsted fabrics—*Continued*

Shrinkage

Preventing shrinkage in knitted fabrics. Textile Col 64:253-4+ My '42

Unshrinkable woolen and worsted fabrics. A. J. Hall. Textile Col 64:275 Je '42

Standards

Government wool and part wool fabrics standards. Textile Col 64:71-3 F '42

Testing

Service study of three blanket fabrics made from various blends of wool and mohair. R. E. Rogers, M. B. Hays and J. I. Hardy. bibliog diags Am Dyestuff Rep 31:318-24 Je 22 '42

WOOLEN and worsted finishing

Change-over in unshrinkable wool finishes. Textile Col 64:406+ Ag '42

Chatham concentrates operations; finishing plant at Elkin, N.C. il Textile World 91:80-1 D '41

Finishing army overcoatings. D. Welsh. il Textile World 92:68-9 Mr '42

Finishing O.D. lining cloth; pointers on fulling, scouring, and other operations for this wool-cotton blend. D. Welsh. il Textile World 92:66 Jl '42

Softening of unshrinkable wool. A. J. Hall. Textile Col 64:331+ Jl '42

See also

Mothproofing preparations

Wool carbonizing

Patents

Recent research on wool and its application. W. O. Dolby. Textile Col 64:337-9, 377-8+ Jl-Ag '42

WOOLEN and worsted machinery

See also

Looms

WOOLEN and worsted manufacture

Manufacturing army overcoatings. F. Sykes. il Textile World 92:66-7 Mr '42

Wool industry prospectus. J. B. Hosmer and M. A. Strickland. (Engineering exp. station, v. 3, no. 2) 56p pa 75c Georgia school of technology, Atlanta '41

See also

Covert cloth

Dyes and dyeing—Wool

Weaving

Wool carbonizing

Woolen and worsted finishing

Woolen and worsted mills

Woolen and worsted spinning

Woolen and worsted weaving

WOOLEN and worsted mills

Better lighting raises output of woolen cloth; Uxbridge (Mass.) worsted company. il Elec W 117:654-5 F 21 '42

Electric equipment

Mill conversion scheme; Smith & Calverley, ltd. il Elec R (Lond) 130:3-7 Ja 2 '42

Employees

Dermatitis occurring in a woolen mill. L. Schwartz and J. E. Dunn. Ind Med 11:432-5 S '42

She shall have music; use of recorded music in mill; Collins & Aikman corp. il Textile World 91:105 D '41

Equipment

Chatham concentrates operations; finishing plant at Elkin, N.C. il Textile World 91:80-1 D '41

Fuller dabbing brush for Noble combs. il Textile World 92:107-8 F '42

Management

Keep your waste under control; methods for collection and disposal which will reduce costs. W. G. Holman. il Textile World 92:94-5 S '42

Minimizing inventory losses in the men's wear division of the wool-textile industry. R. B. Armstrong. 40p pa 50c Textile foundation, Washington, D.C. '41

Plant protection at Botany. il Textile World 92:99-101 Jl '42

WOOLEN and worsted spinning

Ball-bearing spindle for woolen mules. il Textile World 92:99 My '42

Irregularities in rovings and yarns. J. G. Martindale. il diags Textile Inst J 33:P9-22 F '42

Worsted open-drawing. Textile World 92:125 F '42

WOOLEN and worsted weaving

Army blankets on carpet looms. J. N. Dow. il Textile World 92:70-2 Je '42

Hand-weaving as fashion source. W. B. Dall. il Textile World 92:70-1 Ja '42

Hand-weaving thrives in Santa Fe. F. Kutnewsky. il Textile World 91:74 D '41

Loomfixers' manual; wool section (cont). E. P. Schremp. diags Textile World 91:107-8 D '41; 92:128-9 F; 116 Ap; 115 My; 92-3 Je; 81-2 Jl '42

WOOLEN and worsted yarn

Blending dyed fibers. V. Rosatto. Textile World 92:84 Ag '42

Cotton mixtures

Blending wools for army fabrics. W. F. Neumann. Textile World 92:61 Ja '42

WOOLWORTH, F. W., and company, London

Five-and-tens under war conditions. H. Lawrence. Barron's 22:20 F 23 '42

WOOLWORTH, F. W., company

Annual report. Comm & Fin Chr 155:740-1 F 17 '42

New home library; Woolworth books achieve department status. Business Week p55-6 S 26 '42

WORCESTER street railway company

Bus man buys Worcester street railway. Bus Transportation 20:605 D '41

WORD division

Hyphen's role in printing is small but mighty! E. N. Teall. Inland Ptr 109:41 My '42

Word division: surgery as practiced by printers. E. N. Teall. Inland Ptr 109:34 Ap '42

WORDS

See also

Semantics

WORK

Work under capitalism and socialism. A. Leontyev. 62p bibliog(p61-2) 75c International publishers, New York '42

See also

Employees

Employment

Fatigue

Labor and laboring classes

Occupations

WORK, Therapeutic effect of

Theory of occupational therapy for students and nurses. N. A. Haworth and E. M. Macdonald. 132p bibliog(p120-3) $2 Williams & Wilkins '41

WORK clothes

Miss War Worker designs her own work clothes. K. North. il Factory Management 100:98-9+ N '42

Puppet rodeo that sold Levi Strauss work clothes now boosts war bonds. R. P. Cronin. il Sales Management 50:28, 31+ My 1 '42

WPB restricts yardage for men's work clothes. Comm & Fin Chr 156:816 S 3 '42

WORK projects administration

Careful planning and training of WPA workers. E. G. Hurst. il Pub Works 72:19-20+ D '41

Importance of surveys and maps in public work programs; part the WPA has played. M. Y. Poling. il Civil Eng 12:385-8 Jl '42

New York mathematics tables project. R. C. Archibald. Science 96:294-6 S 25 '42

President cuts $185 million from WPA, war effort absorbing many from rolls. Comm & Fin Chr 155:2037 My 28 '42

Reduced WPA fund voted by Congress. Comm & Fin Chr 156:23 Jl 2 '42

Union index to medical lore; Boston medical catalog and other indexing of Work projects administration. E. Minderman. Special Lib 33:162-3+ My-Je '42

WORK projects administration—*Continued*

Utilizing WPA labor during winter months; Ravalli county, Montana. H. H. Benson. il Pub Works 72:11+ N '41

WPA participation in airport improvement work. Eng N 127:883 D 18 '41

WPA preference rating procedure. Roads & Sts 85:52 Ap '42

WPA work for the St Paul water department; abstract. Pub Works 73:42 S '42

WORKERS' dwellings. See Housing

WORKING women

Lady in coveralls wooed by sellers. E. Johns. il Ptr Ink 201:21-3+ O 16 '42

Proceedings of Conference on day care of children of working mothers, with special reference to defense areas, Washington, D.C., July 31-Aug. 1, 1941. U S Children's Bur Pub 281:1-84; pa 15c Supt. of doc. '42

See also

Woman—Employment

Woman—Occupations

WORKMEN'S compensation

Industrial medicine and the workmen's compensation system. J. B. Lauricella. Ind Med 11:415-18; Discussion. H. V. Spaulding. 418-19 S '42

Know your compensation laws. J. Kaufman. Safety Eng 83:25 Je '42

Occupational and compensable disease; with special reference to tuberculosis. L. Brahdy. bibliog Ind Med 11:147-50 Ap '42

Papers on workmen's compensation laws presented at American bar association round table; abstracts. F. A. Betts; J. D. Dorsett. East Underw 43:25 Ag 28 '42; Nat Underw 46:16 Ag 27 '42

Trends in occupational diseases legislation. J. D. Dorsett. East Underw 42:30 D 5 '41

Urology; some industrial and compensation aspects. A. J. Greenberger and M. E. Greenberger. Ind Med 11:123-7 Mr '42

See also

Accidents, Industrial

Employers' liability

Insurance, Workmen's compensation

also International association of industrial accident boards and commissions

Medical care

Disability evaluation; principles of treatment of compensable injuries. E. D. McBride. 3d ed rev 631p, 28p bibliog(p607-12) $9 Lippincott '42

Faith healing, as medical care under the workmen's compensation act. I. H. Rubenstein. Ind Med 10:547-8 D '41

Hospital management of industrial cases. S. P. Rogers. Ind Med 11:203-7; Discussion. E. C. Holmblad. 207 My '42

Workman's compensation and refusal of operation; recent judicial decision. F. E. Sugden. Mech Handling 29:79-80 Ap '42; Excerpts. Elec R (Lond) 130:570 My 1 '42

Workmen's compensation and the physician. H. H. Jordan. 180p bibliog(p173-4) $3 Oxford '41

Great Britain

Workman's compensation and refusal of operation; recent judicial decision. F. E. Sugden. Mech Handling 29:79-80 Ap '42; Excerpts. Elec R (Lond) 130:570 My 1 '42

Workmen's compensation acts, 1925-1941. W. A. Willis and R. M. Everett, eds. 34th ed 754p, p801-1147, 100p 25s Butterworth & co, London '42

Workmen's compensation and employer's liability; important judicial decision. F. E. Sugden. Mech Handling 28:247-8, 266-7 N-D '41; Abstract. Elec R (Lond) 129:541-2 N 14 '41

Workmen's compensation; variation and settlement of claims. F. E. Sugden. Elec R (Lond) 130:831-2 Je 26 '42

Illinois

Illinois employe's right to sue restricted; employe, who recovers compensation benefits from his employer, may not recover additional sums from negligent third person also employe. Nat Underw 46:21 O 1 '42

Workmen's occupational diseases act; right of action to employee for injury to health; term "negligence" construed. Pub Health Rep 57:1192-3 Ag 7 '42

Kansas

Kansas workmen's compensation act. Spectator (Property ed) 7:23 N 27 '41

Kentucky

Compulsory workmen's compensation cover is recommended by Kentucky legislative council. Weekly Underw 145:1443 D 27 '41

Minnesota

Volunteer firemen compensation cover. Weekly Underw 146:284 Ja 31 '42

New York (state)

All-inclusive coverage of occupational diseases under the New York workmen's compensation law. Int Labour R 45:157-65 F '42

North Carolina

Workmen's compensation in North Carolina, 1929-1940. J. M. Keech. 198p bibliog(p189-93) $3 Duke univ. press, Durham, N.C. '42

Oklahoma

Lead poisoning held accidental injury; Supreme court of Oklahoma decision. Monthly Labor R 54:129 Ja '42

Ontario

Better protection for municipalities under the Workmen's compensation act. J. Harold. Roads & Bridges 80:84 Mr '42; Same. Water & Sewage 80:106 Ap '42

Texas

Injury to workman employed without license required by city ordinance held not covered by compensation law. Weekly Underw 145:1257 N 29 '41

Virginia

Injury caused by wearing a work shoe held a compensable accident. Monthly Labor R 53:1462 D '41

WORKMEN'S compensation insurance. See Insurance, Workmen's compensation

WORKPLACE layout

New assembly layout, 20 percent more output. W. J. Tillman. il Factory Management 100:88-9+ Je '42

WORKS councils. See Employees' representation in management

WORKSHOPS, Home

Popular mechanics Shop notes and mechanics guide, 1943. v39 216p $1.25 Grosset & Dunlap, 1107 Broadway, New York '42

WORLD politics

Coming age of world control; the transition to an organized world society. N. Doman. 301p $3 Harper '42

Democratic ideals and reality; a study in the politics of reconstruction. H. J. Mackinder. 219p $2.50 Holt '42

Design for power; the struggle for the world. F. L. Schuman. 324p $3.50 Knopf '42

Face of the war, 1931-1942. S. H. Cuff. 290p $3 Julian Messner, New York '42

Free enterprise and world politics. W. White. Mech Eng 64:215-16 Mr '42

Geography and world power. J. Fairgrieve. 8th rev ed 376p $2.50 Dutton '41

Lost peace; a personal impression. H. Butler. 224p 10s 6d Faber and Faber, London '41

Modern world politics. T. V. Kalijarvi and others. 843p $5; text ed $3.75 Crowell '42

World we approach. N. Doman. Ann Am Acad 222:90-102 Jl '42

See also

Geopolitics

WORLD war, 1939-

Allied war program; Canadian bank of commerce comment. Bankers M 144:149 F '42

Allies centering fire on Nazis. Business Week p40+ Ja 17 '42

WORLD war, 1939—*Continued*

As the record unfolds; chronological summary of war and the automotive industry. Automotive & Aviation Ind 86:45-9, 122, 124 Mr 15 '42

Background of our war. 279p bibliog(p271-9) $2 Farrar '42

Chemist in three wars. O. Eisenschiml. Science 96:367-73 O 23 '42

Coming battle of Germany. W. B. Ziff. 280p bibliog(p275-80) $2.50 Duell, Sloan & Pearce, New York '42

Continent shows strain of war after three years. J. A. Horton. il Steel 111:34-5 S 21 '42

Current of war. B. H. Liddell Hart. 414p 12s 6d Hutchinson & co. London '41

Dawn of victory. L. Fischer. 270p $2.75 Duell, Sloan & Pearce. New York '42

Design for power; the struggle for the world. F. L. Schuman. 324p $3.50 Knopf '42

Down to business; size of the job that confronts the United nations. Business Week p32-3 F 28 '42

Europe: how it resists. il Fortune 24:99-101, 130 D '41

Europe, Russia, and the future. G. D. H. Cole. 186p 4s 6d V. Gollancz, London '41

Europe's dance of death. G. T. Garratt. 332p $3.50 Nelson (Toronto) '40

Face of the war, 1931-1942. S. H. Cuff. 290p $3 Julian Messner, New York '42

Free men are fighting; the story of World war II. O. Gramling and others. 488p $3.50 Farrar '42

From Dunkirk to Benghazi. Strategicus, pseud. 298p $3.50 Ryerson press '41

From Tobruk to Smolensk. H. C. O'Neill. 308p $3.50 Ryerson press '41

How engineers can speed victory. B. B. Somervell. Mech Eng 64:518-19 Jl '42; Same. Min & Met 23:427 Ag '42

Imperial allies. Economist 142:58-9 Ja 17 '42

Kaltenborn edits the war news. H. V. Kaltenborn. 96p $1 Dutton '42

Meaning of the war to the Americas. 172p $1.50; pa $1 Univ. of California press, Berkeley '41

Men and machines. L. Beale. Mech Eng 64: 584-7+ Ag '42; Same. Engineer 174:295-7 O 9 '42

Mortal strife. J. C. Powys. 240p 10s 6d J. Cape, London '42

1942, the critical year. A. D. Whiteside. Dun's R 50:7-9 Ja '42

Out of darkness. J. H. Holmes. 151p $1.50 Harper '42

Outposts of war. G. G. Young. 251p $2 Musson book co, 480 University av, Toronto, 2 '41

Pan-American conference gives assurance unity and solidarity of western hemisphere. Comm & Fin Chr 155:584 F 5 '42

Peace by power. L. Gelber. 159p $1.50 Oxford '42

People's war; speeches. R. G. Menzies. 143p $1.25 Longmans '41

Planning for crisis this year. Business Week p30-1 Ja 3 '42

President makes plea to allied nations to remain united in purpose and sympathy. Comm & Fin Chr 155:1251 Mr 26 '42

President says cause of United nations is cause of youth itself; address at International student assembly. Comm & Fin Chr 156:892 S 10 '42

President warns of grave economic crisis; situation on the four major battle fronts. Comm & Fin Chr 156:991 S 17 '42

Prime Minister Churchill addresses Congress on plans of U.S. and Britain; text. Comm & Fin Chr 155:106+ Ja 8 '42

Prime Minister Churchill at Ottawa sees three main phases for course of war. Comm & Fin Chr 155:111 Ja 8 '42

Relentless war; the key to victory. E. M. Earle. 30p pa 25c Columbia univ. press '42

Return to the future. S. Undset. 251p $2.50 Knopf '42

Reviews progress of war; warns Axis powers against use of poison gas. W. Churchill. Comm & Fin Chr 155:1873 My 14 '42

Set for showdown. Business Week p56-8 My 9 '42

Sixth column; inside the Nazi-occupied countries. 313p $2.50 Alliance book corp, New York '42

They were expendable. W. L. White. 209p $2 Harcourt '42

This inevitable conflict. C. J. H. Hays. 30p pa 25c Columbia univ. press '42

Three years. Economist 143:289-91 S 5 '42

Total victory. S. King-Hall. 313p $2.50 Ryerson press '41

26 nations sign pact pledging resources and barring separate armistice or peace. Comm & Fin Chr 155:144 Ja 8 '42

Two or three years of war seen by FDR. Comm & Fin Chr 155:1632 Ap 23 '42

Underground Europe. C. Riess. 325p $3 Dial press, New York '42

United nations face grim spring. Business Week p42 F 14 '42

Unity for war. Economist 141:742-3 D 20 '41

University and the war. Ill U (Urbana) Bul v 39, no 30:1-88 '42

Unrelenting struggle; war speeches. W. S. Churchill. 371p $3.50 Little '42

Victory, and after. E. Browder. 256p $2 International publishers, 381 4th av, New York '42

Victory first. H. J. Reilly. map Banking 35: 10-12 S '42

War as a factor in human progress. G. Hutton. 41p pa 25c Univ. of Chicago press '42

War from the West; map of physical world to the west; U.S. attitudes toward the Pacific. Fortune 25:supp Ja '42

War of distances; getting the stuff to fighting fronts is the great 1942 dictator. il maps Fortune 25:66-9, 177-8, 180+ Je '42

War of Ms; men, money, materials, machines and morale. il Steel 110:208-11 Ja 5 '42

War; second year. E. McInnis. 318p $2 Oxford '41

War volume of Compton's pictured encyclopedia; an alphabetical reference book of the second World war. 8th ed 134p $1.50; to libraries 50c F. E. Compton & co, 1000 N. Dearborn st, Chicago '42

War's four crucial months. il Business Week p15-16 Je 27 '42

Which front? Business Week p31-2 Je 13 '42

Willkie calls for new fronts in Europe and Asia; urges greater aid to allies and defining war aims; text of radio address, Oct. 26. Comm & Fin Chr 156:1545, 1548+ O 29 '42

Willkie reports to President on mission, renews call for second front. Comm & Fin Chr 156:1436 O 22 '42

Winning both the war and the peace. E. M. Patterson, ed. Ann Am Acad 222:1-132 Jl '42

World in trance; from Versailles to Pearl Harbor. L. Schwarzschild. 445p $3.50 L. B. Fischer pub. corp, 381 4th av, New York '42

World war. Economist 141:707-8 D 13 '41

World war II. Comm & Fin Chr 154:1553+ D 18 '41

See also

Electric utilities—War problems
Military service
Public utilities—War problems
Railroads in war
Rapid transit in war
Reconstruction (World war, 1939-)
United nations, 1942

Aerial operations

Air estimates. Engineer 173:225-6 Mr 13 '42

Air force targets in Germany (cont). il maps Engineer 172:326-7, 416-19, 437-8 N 14, D 12-19 '41

Air force targets; port of Emden. il diag map Engineer 174:89-91 Jl 31 '42

Air force targets; St Nazaire dock. il plan Engineer 173:305-6 Ap 10 '42

Air force targets; Schneider armament works at Le Creusot. il map Engineer 174:336-8 O 23 '42

Air power changes sea war strategy. J. A. Ward. il Aero Digest 41:68-71+ Ag '42

Air power in the Pacific conflict. J. A. Ward. il map Aero Digest 40:54, 56, 58 My '42

WORLD war, 1939—Aerial operations—*Cont.*

Air power; key to Axis defeat. J. A. Ward. il map Aero Digest 40:60-2+ Ja '42

Aircraft maintenance problems in North Africa; desert problems. R. Toland. il S A E J 50:sup46-8 N '42

America at war. Published in monthly numbers of Aviation

Arise to conquer. I. Gleed. 223p $2 Random house, New York '42

Army air forces. H. H. Arnold. map S A E J 50:sup23-5+ N '42

Awakening of air power; American air power is expanding faster than any other air force. il Aviation 41:102-3+ S '42

Battles for air mastery of Europe near critical stage. J. A. Ward. il Aero Digest 40:60, 62+ Je '42

Bombs harry Axis. Business Week p64+ O 31 '42

Channel raids show changed warfare. J. A. Ward. il map Aero Digest 41:86-9+ O '42

Decisive factor in the war. Barron's 22:1 My 25 '42

Eagles roar! B. Kennerly. 271p $3 Harper '42

Falling through space. R. Hillary. 269p $2.50 Reynal & Hitchcock, New York '42

Fight for world air rule. J. A. Ward. il Aero Digest 40:72, 75+ Ap '42

Flying guns; cockpit record of a naval pilot from Pearl harbor through Midway. C. E. Dickinson and B. Sparkes. 196p $2 Scribner '42

Flying tank busters. J. I. Waddington. il Aviation 41:191+ Je '42

German parachute corps. P. E. Popham. 32p pa 6d Hutchinson & co. London '41

Hitler's latest weapon; water-based torpedo plane. F. Lamoreux. il Aviation 41:243+ Jl '42

I had a row with a German, by R.A.F. casualty. 108p 5s Macmillan '41

Letter from England. J. W. Morrison. il diags Aero Digest 39:50-3 D '41

Mass bombings change conduct of war. J. A. Ward. il Aero Digest 41:70-2+ Jl '42

Medal to General Doolittle. Aeronautical Eng R 1:84-5 Je '42

More aircraft carriers needed in the Pacific. J. A. Ward. Aero Digest 40:74 F '42

Naval aviation at war. J. H. Towers. S A E J 50:sup26-8+ N '42

Question of a separate air force. C. Caldwell. Aero Digest 39:70, 73-4 D '41

Rebirth of the R.A.F. il Aviation 41:136-7+ Ja '42

Report from the British airfront; new military airplane and engine developments. M. V. Cave. il Aviation 41:191, 193, 195 Ag '42

R.A.F.'s December offensive in the West. Engineer 173:57 Ja 16 '42

Russia as a base for A.A.F. operations. J. Ward. map Aero Digest 41:82-3+ S '42

Soviet air force after a year of war. N. Denisov. il Aviation 41:90-2+ Ag '42

Tactics and the aircraft carrier. H. W. Richmond. Engineering 154:143-4 Ag 21 '42

Truth about our fighter planes and bombers. il Aviation 41:93-7+ O '42

Victory through air power. A. P. De Seversky. 354p $2.50 Simon & Schuster '42

War for the skies: offensive by bomber. il Fortune 26:54-9, 161-2+ Jl '42

War visits Japan. map Business Week p30+ Ap 25 '42

What's become of the luftwaffe? L. Zacharoff. il Aviation 41:98-9+ S '42

Wings of victory; a tribute to the R.A.F. I. Halstead. 222p $2.50 Dutton '41

Wings over Olympus; the story of the Royal air force in Libya and Greece. T. H. Wisdom. 229p 9s G. Allen & Unwin, London '42

See also
Air raids

Atrocities

President warns Axis on barbaric crimes. Comm & Fin Chr 156:727 Ag 27 '42

Promises punishment for war criminals. Comm & Fin Chr 156:1361 O 15 '42

Bibliography

Social and economic problems arising out of World war II. D. C. Tompkins, comp. 114p pa $1.50 Public administration service, 1313 E. 60th st, Chicago '41

World war II and its background; a study outline. rev ed 31p Iowa state college lib. Ames '42

World war II in our magazines and books. H. O. Spier, comp. 31p pa 50c H. O. Spier, 109 E. 29th st. New York '41

See also various subdivisions, e.g.
World war, 1939—Economic aspects—Bibliography
World war, 1939—Finance—Bibliography

Biography

Men behind the war; a who's who of our time. J. Steel. 447p $3.50 Sheridan house, 386 4th av. New York '42

Blockade

Blockade again; pressure to relax blockade in favor of Greece. Economist 142:102 Ja 24 '42

Blockade strategy in the Pacific. K. Bloch. map Barron's 21:3 D 29 '41

Campaigns and battles

Great offensive; the strategy of coalition warfare. M. Werner. 360p bibliog(p347-51) $3 Viking press '42

Modern battle. P. W. Thompson. 220p $2.75 Norton '42

Round two in Russia. il map Fortune 25:80-3+ My '42

Cartoons

He who laughs . . . lasts; anecdotes from Norway's home front. H. Olav and T. Myklebost, eds. 48p $1.25 Norwegian news co, 6515 5th av, Brooklyn, N.Y. '41

Casualties

U.S. war casualties to July 21. Comm & Fin Chr 156:374 Jl 30 '42

Causes

Ambassador Dodd's diary, 1933-1938. W. E. Dodd, jr. and M. Dodd, eds. 464p $1.89 Harcourt '41

Everlasting bonfire. J. Pollock. 209p 9s 6d Chapman & Hall, London '40

Geopolitics; the struggle for space and power. R. Strausz-Hupé. 274p $2.75 Putnam '42

Guilt of the German army. H. E. Fried. 426p bibliog(p383-410) $3.50 Macmillan '42

Investing in a world at war; biological factors seen as a basic cause in humanity's present crisis. A. A. Mol. Barron's 22:20 Ag 3 '42

School of the citizen soldier. R. A. Griffin, ed. 558p bibliog(p533-7) $3; civilian defense ed $2.40 Appleton-Century '42

Ten years; the world on its way to war, 1930-1940. D. E. Lee. 443p bibliog(p429-31) $3.75 Houghton '42

They called me Cassandra. G. Tabouis. 436p $3 Scribner '42

Why we are at war. P. Slosson. 90p pa 56c Houghton '42

Censorship

See Censorship; World war, 1939—Press reports and censorship

Children

Civil defense measures for the protection of children; report of observations in Great Britain, Feb. 1941. M. M. Eliot. (Publication 279) 186p bibliog(p179-86) U.S. Children's bur, Washington '42

Civilian losses

See also World war, 1939—Compensation of war victims

Claims

Expects RFC to pay Pearl Harbor claims. B. Froiseth. East Underw 43:18 Mr 20 '42

WORLD war, 1939—*Continued*

Commerce

Anglo-Soviet trade. Economist 143:304 S 5 '42

Effect of war on Turkey's foreign trade. For Comm W 5:4-5+ D 13 '41

Exports and imports of the areas conquered by the Japanese since December, 1941. V. L. Horoth. Mag of Wall St 71:18 O 17 '42

Foreign funds control and Trading with the enemy act synchronized. For Comm W 6:32-3 Mr 28 '42

Implementing the resolutions of Rio. W. LaVarre. For Comm W 7:11+ Je 27 '42

Orphaned stocks; recovering goods and materials stranded by closing of markets or by curtailment orders. Business Week p36 Mr 28 '42

Positions of Far East products. Barron's 22:6 F 16 '42

President asks removal of trade barriers which impede war production programs. Comm & Fin Chr 156:1721 N 12 '42

Proclaimed list of certain blocked nationals. 3d rev ed 230p suppl U.S. Dept. of state, Washington '42

Trade and shipping in Shanghai. Economist 141:472 O 18 '41

Trade policies of foreign countries during 1941. H. Chalmers. For Comm W 6:6+ Ja 17; 6-7+ Ja 24; 8-9, 33-4 Ja 31; 8-9+ F 7 '42

War's effect on foreign trade. For Comm W 5:21 D 13 '41

Wartime exports attain record volume; essential imports well maintained. Survey of Cur Business 22:5-6 Jl '42

See also

World war, 1939—
Shipping

Commodity control

Advertising flourishes in Canada despite price ceiling; merchandisers keep up activity. M. Brown. il Ptr Ink 199:22, 24, 27-8 Je 12 '42

Asphalt for roads placed under wartime control. il Roads & Bridges 80:21, 76-7 My '42

Britain standardizes, warily. Business Week p34+ F 28 '42; Abstract. Ind Stand 13:75-7 Mr '42

Britain's cost of living control. F. B. Makin. il Banking 34:31-3 Ja '42

Britain's two years' experience with shortages. D. V. Baker. il Mod Packaging 15:38-40+ F '42

British packages under wartime restrictions. D. V. Baker. Adv & Sell 35:72+ O '42

Canadian tea, coffee, and sugar rationing regulations. For Comm W 7:14 Je 13 '42

Canadian wartime commodity controls. For Comm W 7:10-11 Ap 18; 17-18 My 23; 8:13-14 Ag 15 '42

Canadian wartime control of industry. J. Backman and H. Brodie. (Contemporary law pamphlets, ser. 4, no. 10) 62p pa $1 New York univ, Law quarterly review, New York '42

Ceilings spliced; conservation curbs tightened in Canada. Business Week p38+ My 23 '42

Control of consumer goods. For Comm W 8:16-17 S 19 '42

Controllers; with list of names and previous business affiliations. Economist 142:417-18 Mr 28 '42

Cuban price control and rationing office established; tin conservation measures. For Comm W 7:14 Je 27 '42

Direct rationing to replace priority system due to shortage of raw materials. E. Blair. Barron's 22:4 Je 8 '42

Effects of the war on British marketing; a guide for American business. E. R. Hawkins. U S Bur For & Dom Com Economic Ser 18: 1-74; pa 15c Supt. of doc. '42

Expanded powers of Canadian Wartime prices and trade board. Monthly Labor R 53:1154-5 N '41

Future role of rationing. Barron's 22:11 N 2 '42

John Bull's rations. Business Week p34, 39-41+ Ja 31 '42

Lingerie defrilled; industry apparently is unruffled. Business Week p56 My 16 '42

List of consumer goods prohibited by WPB; with prohibition dates. Comm & Fin Chr 155:1556 Ap 16 '42

Many WPB and OPA orders are based on standards. Ind Stand 13:177-8, 262-5 Je, O '42

Most drastic regulation in American history to change face of industry. Steel 110:42-3 Ap 13 '42

Nailing ceilings; Canada cuts off escape to higher-priced lines; U.S. checks up on controls over strategic materials. Business Week p56+ Jl 18 '42

New conversion; stove industry first to go on part-civilian, part-war basis. Business Week p16-18 My 23 '42

New regulations and restrictions in Canada. Can Chem & Process Ind 26:200-2 Ap '42

OPA will prosecute rationing violation. J. E. Hamm. Comm & Fin Chr 155:1560 Ap 16 '42

Only a nucleus; industrial concentration in Britain exemplified by wartime program for soft drink manufacturers. Business Week p50 Ag 8 '42

Price and food control. Monthly Labor R 54:1333-40 Je '42

Price ceilings and wartime control over the American economy. C. A. R. Wardwell and G. J. Matchett. Survey of Cur Business 22: 19-26 Je '42

Priorities hit home; where shortages pinch consumer. Business Week p62+ Mr 21 '42

Quick picture of the impact of war on civilian industries; United States, Canada, England. E. Burnett. Adv & Sell 35:21-4 Ap '42

Rationed Canada. Business Week p41 F 28 '42

Rationing of consumer goods. A. Abramson and C. F. Phillips. J Business 15:1-20 Ja '42

Review of Canadian wartime trade control measures. M. H. Fricker. For Comm W 7: 7-9 Ap 25 '42

Review of paper controls of two World wars. A. N. Wecksler. Paper Ind 23:1198-9+ Mr '42

Spartan living. Economist 142:346-8 Mr 14 '42

Three apples for 4 customers. Business Week p88 F 7 '42

Unessential production; goods for the civilian consumer; quotas in force during the period ended May, 1942. Economist 142:369 Mr 14 '42

Victory models; Canada gets ready to concentrate and standarize its consumer industry. Business Week p46 F 21 '42

War industry. il Can Chem & Process Ind 25:643-4 D '41

Wartime casualties in marketing; abstract. Management R 31:278-9 Ag '42

Wartime rationing and consumption. 87p pa $1 Columbia univ. press '42

Wartime rationing of consumption. J. H. Richter-Altschaffer. Special Lib 32:329-33 N '41

Washington's war-materials achievements; World wars I and II compared. L. Peat. Metals & Alloys 16:608-21 O '42

What if Washington orders you to stop making your product? American bandage corporation sells Washington on its essentiality to the war. R. Stone. il Ind Marketing 27:20-1 S '42

Where shortages pinch the consumer; finished goods, services and staples. Business Week p16 Ap 11; 54 My 16; 62 Je 20 '42

See also

Prices—Regulation
Priorities and allocations, Industrial
Rationing
United States—Price administration, Office of

Compensation of war victims

Civilian war casualties to be covered under Pepper bill in Congress. East Underw 43: 32 F 13; 33+ F 20 '42; Nat Underw 46:19 F 12 '42

Compensation in war. Economist 143:321-2 S 12 '42

Early passage of Pepper bill is expected. Nat Underw 46:19+ Je 11 '42

WORLD war, 1939—Compensation of war victims—*Continued*

Hearing of Senate finance committee on civilian war benefits measure. East Underw 43:28 Jl 10 '42; Nat Underw 46:17+ Jl 9 '42

Pepper war benefits bill split up; three titles of it pass the Senate. East Underw 43:31 Je 26 '42

Pepper's War injuries bill in revised form wins quick support. East Underw 43:31 Ap 3 '42

Cost

Cost of the war. Economist 142:713 My 23 '42

Keeping books on a war; chart showing receipts, war expenditures, and all other expenditures, 1933-43. Business Week p22 Jl 11 '42

War costs exceed all U.S. federal spending, 1789 to 1941. Steel 110:70 My 18 '42

War costs still rising. Can Chem & Process Ind 26:16 Ja '42

War expenditures since middle of 1940 exceed thirty billion dollars. Steel 110:44 Je 15 '42

Diplomatic history

Pledges are exchanged by United States with Great Britain, China and Philippines. Comm & Fin Chr 154:1685 D 27 '41

President in message to Congress reviews events preceding Japanese attack on U.S. Comm & Fin Chr 154:1557+ D 18 '41

President's pre-war proposals to Japan and text of appeals to Emperor Hirohito. Comm & Fin Chr 154:1680 D 27 '41

U.S. and Axis powers arrange for exchange of diplomats. Comm & Fin Chr 155:567 F 5 '42

U.S.-British accord on lend-lease aid; text of Anglo-American pact. Comm & Fin Chr 155:953 Mr 5 '42; Same. For Comm W 6: 3+ Mr 7 '42

Documentation

War and defense subject headings. 17p pa 10c Ruth Miller, sec-treas. Financial group, Special lib. assn, Central Hanover bank and trust co, New York '41

War documentation center: a centralized cataloging and bibliographical service for war publications. Special Lib 33:167+ My-Je '42

War subject headings for information files. 56p pa $1 Special lib. assn. '42

Economic aspects

After the war; abstract. J. L. Weiner. Bankers M 144:334-5 Ap '42

Allies vs. Axis; economic strength and weakness behind the fronts. V. L. Horoth. Mag of Wall St 69:361-3+ Ja 10 '42

American business goes to war. Business Week p15, 17 D 13 '41

American economy during and after the war; a look ahead. N. H. Jacoby. J Business 15: 289-305 O '42

Answer to pessimists; men confused in abnormal times. A. Thorp. Nat Underw (Life ed) 46:2+ Ag 14 '42

Arms and the aftermath. P. Stryker. 157p $1.75 Houghton '42

Bases of the British bull market; shrinkage of investment outlets intensifies effects of a full war economy. B. Ravits. Barron's 22:3 Ap 13 '42

Business and the war; a front line view of effects and trends. W. Mitchell, jr. and W. Hayes. Dun's R 50:13-19 S; 5-10+ O '42

Case for rising stock prices. W. von Tresckow. Barron's 22:3+ Je 1 '42

Civilian hardship? consumer goods, what's available and how much. Business Week p17 Ag 8 '42

Commodity supplies and prices. Fed Res Bul 28:195-201 Mr '42

Constructive imperialism in a new world. M. J. Bonn. Trusts & Estates 74:129-31 F '42

Converting industry; turning a nation's production to war. 70p War production board, Division of information, Washington, D.C. '42

Cooperative movement and the war. Monthly Labor R 55:547-66 S '42

Credit problems in a war economy. R. A. Foulke. 71p Dun & Bradstreet, New York '42

Democracy and free enterprise; the Baxter memorial lectures delivered at the University of Omaha. T. W. Arnold. 81p $1 Univ. of Oklahoma press, Norman '42

Economic activity, further expansion and conversion. Fed Res Bul 28:625-30 Jl '42

Economic defense of the western hemisphere; a study in conflicts. 170p $2; pa $1.50 Am. council on public affairs, 2153 Florida av, Washington, D.C. '42

Economic problems of national defense, a symposium. G. A. Steiner, ed. 214p bibliog (p209-14) pa $1 Dept. of economics, Indiana univ, Bloomington '41

Economic problems of war. G. A. Steiner, ed. $4.50 Wiley '42

Economic situation. N. Carothers. Inv Banking 12:30-5 Je '42

Economic warfare, 1939-1940. P. Einzig. 150p $1.75 Macmillan '41

Economics in war time. H. Henig. Credit & Fin Management 44:9-12 Ag '42

Economics of barbarism; Hitler's new economic order in Europe. J. Kuczynski and M. Witt. 63p 1s 6d F. Muller, London '42

Economics of total war. H. W. Spiegel. 410p bibliog(p359-89) $3 Appleton-Century '42

Effect of the war on textile employment. R. E. Clem. Monthly Labor R 55:446-58 S '42

Effects of a two-ocean war. Barron's 21:6 D 15 '41

Effects of the defense program on prices, wages, and profits. M. Jacobstein and H. G. Moulton. 43p pa 25c Brookings inst, Washington, D.C. '41

Effects of the war on British marketing. E. R. Hawkins. U S Bur For & Dom Com. Economic Ser 18:1-74; pa 15c Supt. of doc. '42

Effects of war on American business. Bankers M 145:71-3 Jl '42

Fighting for what? J. B. Orr. 89p bibliog(p88-9) 2s 6d Macmillan '42

First impact of war on the economy. Fed Res Bul 28:1-6 Ja '42

Foreign war economy. Published in monthly numbers of Trusts and estates

From guns and butter to guns; abstract. H. H. Heimann. Bankers M 144:172-3 F '42

Hemispheric program for economic control. H. D. Ralph. Burroughs Clearing House 26:19-20 Ag '42

How much of our peace-time economy do we have to scrap? G. Hirschfeld. il Spectator (Property ed) 7:10-14+ Ja 22 '42

How will you fare under our maximum war effort? A. B. Wells. il Mag of Wall St 69: 590-2+ Mr 7 '42

How your business can help win the war. H. W. Barclay, ed. 111p pa $1 Simon & Schuster '42

If peace comes soon. A. Colvin. il Mag of Wall St 70:11-13+ Ap 18 '42

If war is prolonged. A. Colvin. il Mag of Wall St 70:63-5+ My 2 '42

Impact of the war upon public utility finance. F. J. McDiarmid. Pub Util 29:663-74 My 21 '42

Industrial world of tomorrow. Management R 30:434-6 D '41

Investing in a world at war. A. A. Mol. Barron's 22:20 Ag 3; 7-8 Ag 10; 8+ Ag 17 '42

Italian wartime economy. il For Comm W 5:6-7, 38-9 O 25; 6+ D 6; 6-7 D 20 '41; 6:3-5 Ja 3 '42

Japan's economic strength and the Pacific war strategy. V. L. Horoth. il Mag of Wall St 69:302-4+ D 27 '41

Job to be done. E. Bevin. 204p bibliog(p199-204) 8s 6d W. Heinemann, London '42

Latin America faces new economic problems. Nat City Bank p77-81 Jl '42

New industrial patterns. W. Gates. il Mag of Wall St 70:115-17+ My 16 '42

New order comes to Middletown. H. Corey. Pub Util 29:541-8 Ap 23 '42

WORLD war, 1939—Economic aspects—*Cont.*

Now in search of a policy: allocations; after military appetite is more or less sated; how shall what is left over be distributed to industry and the economy? il Fortune 25: 100-3+ Je '42

Postwar boom or collapse. S. H. Slichter. Harvard Business R 21 no 1:5-42 [S] '42

Post war period of greatest economic growth envisioned. P. Cadman. Comm & Fin Chr 155:2124 Je 4 '42

Postwar problems and industrial relations. L. L. Lorwin. Advanced Management 6: 138-44 O-D '41

Production for victory, not profit! M. Edelman. 184p 7s 6d V. Gollancz, London '41

Quick picture of the impact of war on civilian industries; United States, Canada, England. E. Burnett. Adv & Sell 35:21-4 Ap '42

Red ink in Pacific; loss faced by American investors. Business Week p63-4+ Mr 14 '42

Report to the nation; the American preparation for war. 62p U.S. Office of facts and figures, Washington '42

Sees end of luxuries here by close of year. C. R. Wickard. Comm & Fin Chr 156:187 Jl 16 '42

Shadow of coming events. L. Stern. Mag of Wall St 69:478-80, 511-12 F 7 '42

Shadow of things to come. A. B. Wells. il Mag of Wall St 70:219-21+ Je 13 '42

Small business, its contribution to the war effort and problems. Index 22 no 3:49-57 [S] '42

Stakes in the struggle for Singapore; tin and oil. map Barron's 21:1 D 22 '41

Struggle for world order. V. M. Dean. 96p pa 25c Foreign policy assn, New York '41

Sugar for Russia; we may have to skimp on many other things to aid United Nations. Business Week p46+ Ja 31 '42

Trade in England under war conditions and in our own country. A. L. Skinner. Credit & Fin Management 44:10-11 Ja '42

Trials and errors; memorandum on our southern front. E. Janeway. Fortune 25: 182-5 My '42

U.S. credit and resources as prosperity keystone in post-war era; home front economic battles. H. H. Heimann. Comm & Fin Chr 155:1865+ My 14 '42

Upheavals in pre-war problems and solutions. Adv & Sell 35:13-17 Ja '42

Vast stake in Pacific; sea lanes are roads to vital materials. For Comm W 5:6 D 27 '41

Wages and cost of living in two world wars. W. Bowden. Monthly Labor R 53:1103-25 N '41

War comes to the markets. Business Week p81-4 D 13 '41

War economics. E. Stein and J. Backman, eds. 501p $3 Farrar '42

War, guns or butter? W. A. Irwin. il Am Inst Banking Bul 24:5-6+ Ja '42

War in the Pacific; its significance to the soap industry. Soap & San Chem 18:31+ Ja '42

War on Main street. L. Bidgood. Trusts & Estates 74:465-6 My '42

War program and living standards. Fed Res Bul 28:981-8 O '42

War remaking industrial America; shifts in economic geography today and tomorrow. L. O. Hooper. il Mag of Wall St 70:479-81+ Ag 22 '42

War remaking industrial America; soaring war production versus dwindling civilian output. L. O. Hooper. Mag of Wall St 70: 427-9+ Ag 8 '42

War's effect on Chilean economy. il For Comm W 9:3-7, 40-3 O 3 '42

War-time controls and restrictions on domestic trading in the United Kingdom. L. G. Holliday. bibliog Special Lib 33:5-10 Ja '42

Wartime shifts in commodity production. Nat City Bank p104-7 S '42

Wartime shortages; their effect on civilian industries. R. L. Leger. il Dun's R 50:13-17 Ap '42

What to do about civilian selling in wartime. P. T. Cherington. Adv & Sell 35:13-15, 64-5 Ag; 16+ S '42

What's ahead on the economic front. T. N. Beckman. Credit & Fin Management 44:4-6+ Jl '42

When the threat of inflation will be worst; accumulation of unspent funds and unsatisfied demand for goods will be greatest after the war. T. S. Holden. Barron's 22: 3-4 Ag 24 '42

Why the Axis powers can't win; abstract. A. A. Bock. Management R 31:42-3 F '42

Why the German republic fell and other studies of the causes and consequences of economic inequality. A. W. Madsen, ed. 177p pa 2s 6d Hogarth press, London '41

Winning the war. J. A. Krout, ed. 100p pa $2.50 Academy of political science, New York '42

With the United States at war we now know the worst. A. T. Miller. il Mag of Wall St 69:235-8 D 13 '41

World economic survey for 1939-41, by the Economic intelligence service of the League of nations; review. L. S. Wellstone. For Comm W 5:34-5 D 6 '41

See also

Inflation (finance)
World war, 1939—Blockade
World war, 1939—Prices

Bibliography

Effect of war on the cost of living. A. D. Brown, comp. rev ed 32p U.S. Lib. of Congress, Division of bibliography, Washington '42

References on defense, war, and economic effects of war. G. A. West, comp. 28p U.S. Bur. of foreign and domestic commerce, Washington '41

Social and economic problems arising out of World war II. D. C. Tompkins, comp. 114p pa $1.50 Public administration service, 1313 E. 60th st, Chicago '41

Education and the war

See War and education

Evacuation, Civilian

Army rushes work on California alien camps as Coast war tension increases. il Eng N 128:460 Mr 26 '42

Civil defense measures for the protection of children; report of observations in Great Britain, February 1941. M. M. Eliot. pls U S Children's Bur Pub 279:1-186 bibliog(p179-86); pa 30c Supt. of doc. '42

Civilian defense buildings; evacuation centers. il plans Arch Forum 76:66-7 Ja '42

Moving Mr Moto in toto; transporting Japanese evacuees. il Bus Transportation 21: 352-4 Ag '42

See also

Evacuation centers

Exiled governments

European governments in exile. H. L. Scanlon, comp. 22p Carnegie endowment '42

Exiled governments; a report from their London capital. S. Pribichevich. il Fortune 26:80-2+ Ag '42

Protective expropriation decree of Norwegian government in exile upheld by British court. Weekly Underw 146:381-2 F 14 '42

Finance

Alternatives in war finance. T. K. Hitch. Survey of Cur Business 22:15-22 O '42

Bankers' duties in financing war and aiding war production. W. R. Burgess. Comm & Fin Chr 155:1049 Mr 12 '42

Billions for war. Business Week p70-1+ Je 6 '42

British white paper on war finance; text. Fed Res Bul 28:539-49 Je '42

Canada's second victory loan. Bankers M 144: 242 Mr '42

Cash gifts aid war effort. Comm & Fin Chr 155:1871 My 14 '42

Commercial banks and the war finance program. A. M. Massie. Bankers M 145:6-12 Jl '42

Economic review of 1941. Survey of Cur Business 22:3-6 F '42

WORLD war, 1939—Finance—*Continued*

Examination of values; financing the war. C. C. Davis. Trusts & Estates 75:22-3 Jl '42

Financing the defense program. E. G. Daniel. 32p pa 25c Bur. of business research, Univ. of Oregon, Eugene '41

Financing the war is everyone's problem. Barron's 22:1 Ap 6 '42

Financing total war. R. M. Haig. 32p pa 25c Columbia univ. press '42

Fiscal planning for total war. W. L. Crum, J. F. Fennelly and L. H. Seltzer. 358p $3 Nat. bur. econ. research, 1819 Broadway, New York '42

Forced savings in Canada's 1942-43 budget. For Comm W 8:13+ Jl 11 '42

From debtor to creditor; financial relations between the United Kingdom and Canada. Economist 142:570-1 Ap 25 '42

Gap again. Economist 142:136-7 Ja 31 '42

German Europe; war finance. Economist 142:610 My 2 '42

How much war financing through banks? Barron's 22:1 Je 22 '42

How to pay for the war. G. A. Steiner. Trusts & Estates 74:365-6 Ap '42

Increase corporate, individual taxes; favors withholding tax. M. S. Eccles. Comm & Fin Chr 155:771 F 19 '42; Same. Fed Res Bul 28:211-13 Mr '42; Excerpts. Trusts & Estates 74:247 Mr '42

Morgenthau urges cut in personal spending. Comm & Fin Chr 155:2211 Je 11 '42

President reports on use of blank check funds. Comm & Fin Chr 156:196 Jl 16 '42

Principles that must govern. Nat City Bank p68-71 Je '42

Thrift takes on a new necessity. J. M. Dodge. Bankers M 144:477-86 Je '42

Voluntary bond purchases will not meet government needs after this year. E. Schram. Comm & Fin Chr 156:539 Ag 13 '42

War budget; fiscal policy represents all-out effort. Index 22 no 1:1-10 [Mr] '42

War cost $205,311,233,542, 1941-3. Comm & Fin Chr 156:116 Jl 9 '42

War expenditures and national production. M. Gilbert. Survey of Cur Business 22:9-16 Mr '42

War expenditures: paid by the U.S. Treasury and by the Reconstruction finance corporation and by foreign purchasing missions in the United States; 1940-March 1942; chart. Survey of Cur Business 22:2 My '42

War finance. il Banking 35:8-16 sec 2 Jl '42

War finance in the U.S., Great Britain, and Canada. Nat City Bank p32-5 Mr '42

War finance policy. M. Shields. Trusts & Estates 74:563-4 Je '42

War finance; Sir Kingsley Wood's budget speech and documents issued with it. Economist 142:528-32 Ap 18 '42

War financing; military, naval and maritime commission appropriations. Fed Res Bul 28:533-4 Je '42

War must be financed so credit structure of country will not be destroyed. A. L. M. Wiggins. Comm & Fin Chr 155:1129 Mr 19 '42

War program in the United States; funds and authorizations made available for war purposes, monthly, 1940-Dec. 1941. Survey of Cur Business 22:21 Ap '42

Wartime developments in British finance. For Comm W 6:6-7+ Ja 3 '42

Washington fiscal policy; its war and postwar aims. G. Colm and G. M. Alter. Fortune 26:122-3+ O '42

When authorities disagree financing World war II; an experimental technique applied to conflicting views. S. E. Leland and H. L. Lutz. 47p pa 25c Public affairs committee, New York '42

Where tax policy fails; limits of fiscal policy for maximum war production. K. H. Niebyl. Trusts & Estates 74:235-8 Mr '42; Discussion (Where tax policy is needed). H. S. Bloch. 74:357-9 Ap '42

See also

Finance—Germany

Finance—Great Britain

Finance—United States

Bibliography

Defense financing: a selected list of references. G. H. Fuller, comp. 40p U.S. Lib of Congress, Division of bibliography Washington '41

Food question

Agricultural supplies for war. C. R. Wickard. Ann Am Acad 220:125-35 Mr '42

Duties of U.S.-British food board outlined. Comm & Fin Chr 155:2308 Je 18 '42

Economic conditions; new system of food distribution. For Comm W 5:26 N 15 '41

Famine over Europe, the problem of controlled food relief. R. Walker. 185p bibliog(p181-5) 5s A. Dakers, London '41

Farm problems in meeting food needs. R. L. Adams. 32p pa 25c Univ. of California press, Berkeley '42

Farmers' job in the war programs. L. M. Gentry. il Bankers Mo 59:55+ F '42

Feeding the nation in peace and war. G. Walworth. 548p $5 Norton '40

Food, a munition of war. Barron's 22:6 O 5 '42

Food, a weapon for victory. B. Fowler. 185p $1.50 Little '42

Food control in Great Britain. E. T. Denhardt. 272p pa $1.25 Int. labor office '42; Abstract. Monthly Labor R 55:728-34 O '42

Food for Britain; rationing and price control are basic in present policy. R. S. Harris. il Tech R 44:221-3+ Mr '42

Food for the war. Nat City Bank p81-3 Jl '42

Food men tell story of their war contribution. Barron's 22:7-8 My 25 '42

Food relief for occupied Europe. D. M. Foot, E. M. Pye and R. Walker. 24p bibliog(p24) 9d Nat. peace council, London '42

Food supplies; foreign food requirements increasing. Survey of Cur Business 22:9-11 Jl '42

Food values in war-time. V. G. Plimmer. 80p pa 40c Longmans '41

German Europe; food rations. Economist 142:72-3 Ja 17 '42

Growers, packers prepare to hit Hitler, feed 200,000,000 people. Sales Management 50:65-7 F 15 '42

John Bull eats American; dehydrated eggs, milk, vegetables, and meats. il Business Week p35-6+ Je 13 '42

Ministry of food information boards; how the E.D.A. is cooperating. Electrician 128:49 Ja 23 '42

Nutrition in war. J. B. Orr. 14p pa 3d Fabian soc, London '40

Nutrition society discusses problems of collective feeding in war time. Chem & Ind 61:269-70 Je 13 '42

Politics of food. G. Darling. 211p 5s Routledge '41

Problems of food supply in France. Int Labour R 45:142-50 F '42

Rationing and control of food supplies. J. M. Tinley. 26p bibliog(p26) pa 25c Univ. of California press, Berkeley '42

U.S.-Britain combine production, resources. Comm & Fin Chr 155:2202 Je 11 '42

Vitamins for victory. Chem Ind 50:778+ Je '42

Wartime food problems discussed by IFT. Food Ind 14:41-3 Jl '42

Wartime transportation and distribution of foods. J. M. Tinley. 26p pa 25c Univ. of California press, Berkeley '42

What is expected of agriculture during the war emergency. S. E. Johnson. Edison Elec Inst Bul 10:121-3 Ap '42

World's food position and outlook. J. S. Davis. Harvard Business R 21 no 1:43-9 [S] '42

Freezing of assets

Ask business men report freezing order violation. Comm & Fin Chr 155:1553 Ap 16 '42

Blocked account paying of American shares restricted. Comm & Fin Chr 155:773 F 19 '42

Commodity contracts by blocked accounts. Comm & Fin Chr 154:1020 N 13 '41

WORLD war, 1939—Freezing of assets—*Cont.*

Control of foreign-owned property in the United States; an analysis of executive orders and regulations. T. H. Thiesing. 40p pa $1 United States corp. co, 150 Broadway, New York '41

Ecuador; freezing of Axis funds. For Comm W 7:14 Ap 18 '42

Executive order on transfers of property of foreign countries and their nationals; extended to Hong Kong. Fed Res Bul 28:109-10 F '42

Executive order on transfers of property of foreign countries and their nationals; extended to Thailand. Fed Res Bul 28:15-16 Ja '42

Eye on foreign funds; how banks are helping make freezing control effective. H. M. Bratter. il Banking 34:23-4+ D '41

Foreign funds control. H. D. Ralph. il Burroughs Clearing House 26:21-3 Ja '42

Foreign funds control and Trading with the enemy act synchronized. For Comm W 6:32-3 Mr 28 '42

Foreign funds control; special regulation issued by the Federal reserve bank of San Francisco as fiscal agent of the United States; transactions in property of persons evacuated from Pacific coast. Fed Res Bul 28:308 Ap '42

Four nations interested in policy; Marshal Petain's annuity. East Underw 42:19+ D 12 '41

Freezing of Axis funds by Uruguay. For Comm W 5:15 D 27 '41

Freezing of Axis funds by Venezuela. For Comm W 6:30 Ja 31 '42

Frozen funds; attachment. Banking 34:41 Ja '42

Honduras; freezing control. For Comm W 7:15 Ap 18 '42

Insurance and Trading with the enemy; act of 1917, revived 1941. E. C. Stiefel. Weekly Underw 146:58-9+ Ja 3 '42

Liberalizes freezing control restrictions. Comm & Fin Chr 155:943 Mr 5 '42

NYSE on blocked account. Comm & Fin Chr 155:569 F 5 '42

Philippine assets frozen. Comm & Fin Chr 155:225 Ja 15 '42

Problems in handling enemy blocked funds. G. M. Selser. East Underw 43:15 My 1 '42

Procedure for dealing with nationals outlined; with list of blocked countries and dates effective. Nat Underw 46:5+ F 12 '42; Same. Nat Underw (Life ed) 46:8-9 F 27 '42

Summarizes regulations on dealing with nationals. R. H. Matthias. Nat Underw 46:4 F 19 '42

Toward simpler freezing control. H. Bratter. Banking 34:44 F '42

Treasury dept. rules on blocked national payments. Ins Field (Fire ed) 71:11-12 Mr 5 '42; Nat Underw 46:6 Mr 5 '42

Treasury list reveals $200,000,000 foreign held strategic materials. Comm & Fin Chr 155:229 Ja 15 '42

Treasury revises rules of frozen funds. Comm & Fin Chr 156:1183 O 1 '42

U.S. sets patent policy on frozen credits. Oil Paint & Drug Rep 141:7 Je 1 '42

Warns against unlicensed blocked assets transfer. Comm & Fin Chr 155:1712 Ap 30 '42

Warns on violating freezing regulations. Comm & Fin Chr 156:893 S 10 '42

Hospitals

Hospitals under fire; but the lamp still burns. G. C. Curnock, ed. 148p $2.50 Norton '42

Influence and results

Looking ahead fifty years. R. W. Babson. 234p $2 Harper '42

North America, wheel of the future. H. Daniel. 300p $2.75 Scribner '42

Jews

Enlisting the Jews. Economist 143:201 Ag 15 '42

Fighting Jew. 59p pa $1 Committee for a Jewish army, New York '42

Labor problems

A-B-C's of British labor policy. Business Week p46+ Ap 4 '42

Allocation of Canadian manpower. Monthly Labor R 55:720-5 O '42

Arms and the manpower; mobilization of the total labor force is Washington's next great task. charts Fortune 25:72-5+ Ap '42; Abstract. Management R 31:114-16 Ap '42

At the margin; production per man is what counts. Fortune 25:78-9, 145-6+ My '42

Breaking the skilled labor bottleneck; how to subdivide labor skills to gain maximum production. E. J. Benge. 47p $2 Nat. foremen's inst, Deep River, Conn. '42

Commissioners' memoranda; electricity supply and man-power. Electrician 128:153-4 F 20 '42

Controlling jobs; Canada may freeze man power in present employment. Business Week p40+ Ap 18 '42

Critical occupations in communications industries. Comm & Fin Chr 156:381 Jl 30 '42

Defense migration and labor supply. H. B. Myers. Am Statis Assn J 37:69-76 Mr '42

Draft of semi-skilled labor seen imminent; employment of women and men over 45 urged. A. V. McDermott. Comm & Fin Chr 155:2215 Je 11 '42

Dynamic democracy; labour during the war. F. Williams. 32p pa 10c Macmillan (Toronto) '41

Dynamics of industrial democracy. C. S. Golden and H. J. Ruttenberg. 358p bibliog (p349-51) $3 Harper '42

Employer-worker participation in the war effort in the United States. Int Labour R 46:453-7 O '42

Essential work order. Economist 143:119 Jl 25 '42

Extension of essential-work orders in Great Britain. Monthly Labor R 53:1160-4 N '41

Foreign workers in German war efforts. P. A. Speek. Monthly Labor R 54:1310-19 Je '42

Fortune survey; labor: the public, workers included, knows relatively little about unions. Fortune 25:98-100 F '42

Fourteen-point program for labor. S. Hillman. Steel 110:43-4 Ap 6 '42

Germany's labor problems. For Comm W 7:4-5+ My 16 '42

Get ready now for manpower control. il Factory Management 100:58-64 Jl '42; Abstract. Management R 31:226-8 Jl '42

Grant power to shift workers to war jobs; federal government's employees. Comm & Fin Chr 156:989 S 17 '42

Hail and farewell; revised Schedule of reserved occupations. Economist 141:748-9 D 20 '41

Hirings in Canada to be through employment offices. Monthly Labor R 55:228-9 Ag '42

Hours and output; health research board's report. Elec R (Lond) 130:210 F 13 '42

How coming manpower shortage will affect you. H. M. Tremaine. il Mag of Wall St 70:640-2+ O 3 '42

How to increase war production; lessons from an English government report. C. S. Slocombe. Personnel J 20:194-204 D '41

Impact of war on labor supply and labor utilization. L. Levine. Am Statis Assn J 37:54-62 Mr '42

Impact of war on long-term unemployment in Great Britain. bibliog Int Labour R 45:44-63, 297-301 Ja, Mr '42

Industrial health in wartime. M. N. Newquist. Ind Med 11:236-7 My '42

Industrial relations and the determination of conditions of employment in wartime. I. Bessling. bibliog Int Labour R 46:525-68 N '42

Industry-labor group pledges war unity. Comm & Fin Chr 156:373 Jl 30 '42

Investigations of labor time losses; report of Britain's Industrial health research board. Aero Digest 40:136+ My '42

Irregular employment of mine workers in Great Britain ends in severe labor and output shortages. J. E. Norton. il Coal Age 47:45-7 My '42

WORLD war, 1939—Labor problems—*Continued*

Joint production advisory committees in Great Britain. Monthly Labor R 54:1088-9 My '42

Joint production committees. Engineer 173: 469-70 Je 5 '42

Labour and output; report from Select committee on national expenditure. Elec R (Lond) 129:580 N 21 '41

Labour compulsion in Kenya. Int Labour R 45:680-2 Je '42

Labor conscription. W. V. Owen. Personnel J 20:346-9 Ap '42

Labour control; regulations affecting the contracting industry. Elec R (Lond) 130:50 Ja 9 '42

Labor defends America. H. Wolf. 80p pa 50c Am. council on public affairs, Washington, D.C. '41

Labor in transition to a war economy. W. Bowden. Monthly Labor R 54:843-68 Ap '42

Labor policy and national defense. Z. C. Dickinson. (Bul. 12) 62p pa 75c Bur. of industrial relations, Univ. of Michigan, Ann Arbor '41

Labor relations and the war. H. Feldman, ed. Ann Am Acad 224:1-195 N '42

Labour supply and national defence. P. Waelbroeck and E. H. Mayer. 245p pa $1 Int. labor office, Montreal '41

Labour supply policy in Great Britain. Int Labour R 46:190-5 Ag '42

Labor: the new force, the new problem. H. M. Tremaine. il Mag of Wall St 69:689-91 Ap 4 '42

Manpower commission moving toward wartime control of engineering skill. Eng N 129:259 Ag 20 '42

Manpower draft takes form; compulsory allocation of labor to industry. Business Week p15 Ap 11 '42

Manpower in France and the Low countries. Economist 142:39-40 Ja 10 '42

Manpower policy. Economist 142:312-14 Mr 7 '42

Man-power problems in Australia. Int Labour R 45:556-60 My '42

Measures taken in Britain to combat absenteeism, listless work and to reestablish the force at the mines. J. E. Norton. il Coal Age 47:73-5 Je '42

Measures taken in Great Britain to mobilize industrial manpower. J. S. McCauley. Monthly Labor R 53:1397-1400 D '41

Mechanical engineering section of the central register in wartime. J. Tams. Engineer 173:325-6 Ap 17 '42; Same. Engineering 153: 375-6 My 8 '42; Same. Inst Mech Eng J & Proc 147:Proc 75-8 My '42

Men and women; release from non-war jobs. Economist 141:502 O 25 '41

Mr Bevin treats them rough; mobilising women for war work. Economist 141:559 N 8 '41

Munitions labour supply organization. W. H. Denholm. Inst Mech Eng J & Proc 145:Proc 160-6 S '41; Discussion. 145:Proc 166-70; 147:Proc 78-83 S '41, My '42

National service for civilians probable, war strategy crux of manpower needs. E. Blair. Barron's 22:4 O 12 '42

Nelson opposes double time pay rates giving views on the war labor laws. Comm & Fin Chr 155:1261 Mr 26 '42

Nelson will brook no delays or slowdowns by managements or by labor. E. Blair. Barron's 22:4 Mr 16 '42

Nelson's wage-incentive plan strikes at level-pay clauses in many union contracts. E. Blair. Barron's 22:4 Mr 23 '42

New regulations governing employment in essential industries; to correct mal-distribution of technical men and provide for re-instatement. A. D. P. Heeney. Pulp & Pa of Can 43:369-71 Ap '42

Outline of Canadian price and wage controls. For Comm W 5:12-14 N 15 '41

Outline plan to mobilize labor for war work giving government power to allocate workers. Comm & Fin Chr 155:1447 Ap 9 '42

Part-time workers. Economist 142:422 Mr 28 '42

Personnel management. Economist 141:791-2 D 27 '41

Placing the displaced worker; government and industry sponsoring program to find jobs for priority casualties. A. Fancher. Barron's 22:18 Jl 27 '42

Position of British labor, 1939-41. M. H. Schoenfeld. Monthly Labor R 54:594-615 Mr '42

President creates man-power commission for most effective mobilizing and use of labor. Comm & Fin Chr 155:1631 Ap 23 '42

Production; from the seventh and eighth reports of the Select committee on National expenditure. Engineer 173:330-1 Ap 17 '42

Remuneration of British labor since beginning of war. P. S. Florence. Monthly Labor R 54:881-94 Ap '42

Selfish demands of labor for wages, hours hit, as periling our existence. R. W. Babson. Comm & Fin Chr 155:1345 Ap 2 '42

Skilled men in the services. Engineer 173: 182-3 F 27 '42

Some problems of organized labor in a war economy. P. Eliel. Ann Am Acad 220:116-24 Mr '42

Target for tomorrow; crisis of manpower. Economist 141:677-8 D 6 '41

Textile war manual; how wartime labor problems may be solved. Textile World 92:84-5 F '42

Union labor and defense. W. M. Maupin. Pub Util 29:623-7 My 7 '42

Wage-hour division gives stand on war problems. Comm & Fin Chr 155:1784 My 7 '42

War labor policy; diagnosis of failures and future needs. W. M. Leiserson. Trusts & Estates 74:248-51 Mr '42; Abstract. Management R 31:76-7 Mr '42

War labor supply problems of Philadelphia and its environs. G. L. Palmer and S. M. Cohn. (Research report 5) 54p pa 50c Industrial research dept, Univ. of Pennsylvania, 3440 Walnut st, Philadelphia '42

War migration; great population and industrial shifts in process. Index 22 no 2:42-8 [Je] '42

War-time employment of women in the chemical industry. Chem & Ind 60:873-5 D 13 '41

Wartime labor policies and problems in Australia. A. L. Whitney. Monthly Labor R 54: 616-31 Mr '42

War time regulation of hours of labor and labor supply in Great Britain. 82 numb l U.S. Dept. of labor, Wage and hour div, Washington '41

Wartime regulation of labour conditions in Rumania. Int Labour R 45:179-82 F '42

Wartime regulation of labor in New Zealand. Monthly Labor R 54:895-904 Ap '42

War-time wage policy and private enterprise. Trusts & Estates 73:585-6 D '41

War, wages, and strikes; possibility that labor disputes may not end during the present emergency. C. E. Troxel. Pub Util 29: 201-9 F 12 '42

Welfare work outside British factories. Monthly Labor R 54:57-8 Ja '42

What's itching labor? survey of opinion of workers in Pittsburgh area. il Fortune 26: 100-2+ N '42

Withdrawal of young women from retail trade in Great Britain. Monthly Labor R 54:56 Ja '42

Woman shortage. Economist 142:460-1 Ap 4 '42

Worker morale as a personnel job. C. S. Slocombe. Personnel J 20:266-70 F '42

World war and man-power. Engineering 152: 471-2 D 12 '41

See also

National war labor board

War manpower commission

World war, 1939—Women's work

Bibliography

Labor and the war: a selected bibliography. H. Baker. Ann Am Acad 224:190-5 N '42

Laws and legislation

Emergency war powers of the states. Monthly Labor R 54:1084-7 My '42

WORLD war, 1939—Laws and legislation—*Cont.*

First war powers act, 1941; text. For Comm W 5:8-9 D 27 '41; Same. Fed Res Bul 28: 13-15 Ja '42

Law and practice of war damage compensation; a guide to the War damage acts, 1941, for practitioners. H. B. Williams and M. Evans. 416p 21s W. Heffer & sons, Cambridge, Eng. '41

Maddock's Civil defence acts and orders, 1939-1941. L. Maddock, ed. enl ed 439p 30s Eyre & Spottiswoode, London '41

Second War powers bill: more government control. Comm & Fin Chr 155:1048 Mr 12 '42

Second War powers bill signed by President. Comm & Fin Chr 155:1338 Ap 2 '42

State war-emergency legislation. Monthly Labor R 54:905-7 Ap '42

Tenants and war damage; effects of new amending act. F. E. Sugden. Elec R (Lond) 130:47-8 Ja 9 '42; Same. Mech Handling 29:33-4 F '42

War damage act, 1941. H. Samuels, ed. 259p 10s 6d Pitman '41

War damage act, 1941, and the War risks insurance act, 1939, part II (Commodity insurance scheme). G. G. Slack, ed. 446p, supp 24p 15s Butterworth & co, London '41

War damage act, 1941; the official text of the act, together with a full and comprehensive index. S. Murray, comp. 126p 6s 6d Eyre & Spottiswoode, London '41

Bibliography

National defense and neutrality; proclamations, executive orders, military orders and presidential administrative orders, regulations and letters, July 1, 1939 to July 1, 1941. 41 numb l Office of govt. reports, U.S. Information service, Washington '41

Reference list of important war legislation and regulations thereunder. R. C. Lindquist, comp. 15 numb l Law lib. assn. of Greater New York, New York '42

Maps

Atlantic arena. R. E. Harrison. Fortune 25: supp Je '42

Fortune map; Pacific arena. R. E. Harrison and M. K. Ullrich. Fortune 26:supp S '42

Global war; an atlas of world strategy. E. A. Mowrer and M. Rajchman. 128p pa $1 Morrow '42

One world, one war. Fortune 25:supp Mr '42

Russia's strategic Far East. map Business Week p76 Ag 15 '42

Southeast to Armageddon. Fortune 25:64-5 F '42

War in maps; an atlas of the New York Times maps. F. Brown. 159p $1.50 Oxford '42

Medical and sanitary affairs

Civilian health in wartime. F. R. Dieuaide. 328p bibliog(p307-12) $2.50 Harvard univ. press '42

Disease in wartime. Science 95:530-1 My 22 '42

Fifth general hospital (Harvard university unit), U.S. army. E. C. Cutler. Science 95:163-4 F 13 '42

Medical manpower; allocation among the civilian population, and the services. Economist 142:823 Je 13 '42

Medicine versus invasion; the Home guard medical service in action. G. B. Shirlaw and C. Troke. 208p 7s 6d Secker and Warburg, London '41

Mental breakdowns and the war; abstracts. R. D. Gillespie. Science 94:sup12-13 N 28 '41

Mosquitoes, malaria and the war in the Pacific. E. P. Mumford. map Science 96: 191-4 Ag 28 '42

Russian interchange; Anglo-Soviet medical committee. Science 95:456-7 My 1 '42

Sulfa drugs and the treatment of wounds in Hawaii. J. Stafford. Science 95:sup8+ Ja 16 '42

War and health in Britain; abstract. W. Jameson. Am Water Works Assn J 34:131-2 Ja '42

Naval operations

Action at sea; the saga of the Sydney. G. H. Johnston. 185p $2.75 Houghton '42

Action stations! the Royal navy at war. H. G. Thursfield. 78p $2.50 Macmillan '41

Air power changes sea war strategy. J. A. Ward. il Aero Digest 41:68-71+ Ag '42

Britannia has wings! the fleet in action, on, over and under the sea. A. S. Hurd. 112p 5s Hutchinson & co, London '42

Heroes of the Atlantic; the British merchant navy carries on! I. Halstead. 235p $2.50 Dutton '42

Naval war in the Pacific. Engineering 153: 231-2 Mr 20 '42

Navy and the navy; it fights superbly, as Midway proved; ashore it has been another story. il diags Fortune 26:66-73+ Ag '42

Navy estimates. Engineer 173:204-5 Mr 6 '42

North Atlantic patrol; the log of a seagoing artist. G. B. Coale. 49p $2 Farrar '42

Red duster at war. W. Armstrong. 192p $3.75 Ryerson press '42

Rule Britannia. C. King. 280p $4.50 Studio publications, New York '41

Sea power in conflict. P. Schubert. 252p $2.50 Coward-McCann, New York '42

Tactics and the aircraft carrier. H. W. Richmond. Engineering 154:143-4 Ag 21 '42

Third year of the war at sea. H. W. Richmond. Engineering 154:194-5 S 4 '42

War at sea. G. Cant. 340p $3 Day '42

Occupied territory

Europe in revolt. R. Kraus. 563p $3.50 Macmillan '42

Europe works for Hitler. Business Week p76+ S 12 '42

Hitler's plan; Nazis bleed occupied countries of industrial might. Business Week p72+ S 19 '42

International protection of Axis victims and revindication of their property rights (the juridical position of citizens of occupied countries). E. de Hofmannsthal and R. Berger. 42p pa $1 New York univ. Law quarterly review, 100 Washington sq. E, New York '42

New order in Ostland. Economist 143:76-7 Jl 18 '42

Peace and mediation

Agenda for a postwar world. J. B. Condliffe. 232p $2.50 Norton '42

America's world role. S. Welles. For Comm W 7:3-4+ Je 6 '42; Abstract. Comm & Fin Chr 155:2123 Je 4 '42

Basis for the peace to come. F. J. McConnell and others. 152p $1 Abingdon-Cokesbury press, Nashville, Tenn. '42

Beyond victory; strength to maintain what has been secured is imperative need; lessons from the past. K. T. Compton. Tech R 44:369-70+ Je '42

Christian basis for the post-war world. A. E. Baker, ed. 123p bibliog(p115-23) pa $1 Morehouse-Gorham co, 14 E. 41st st, New York '42

Conditions of peace. E. H. Carr. 282p $2.50 Macmillan '42

Economic peace aims; a basis for discussion. O. Dutch. 280p $4 Longmans (Toronto) '41

Facing the future; letters to John Citizen. D. D. Davies. 183p 3s 6d Staples and Staples, London '42

For permanent victory; the case for an American arsenal of peace. M. M. Johnson, jr. and C. T. Haven. 246p $2.50 Morrow '42

Fortune survey; who's to head the peace table? and what kind of peace? Fortune 25: 110 Ap '42

How many world wars? the warning of Foch. M. Léon. 164p $2 Dodd '42

How to win the peace. C. J. Hambro. 384p $3 Lippincott '42

If peace comes soon. A. Colvin. il Mag of Wall St 70:11-13+ Ap 18 '42

If war is prolonged. A. Colvin. il Mag of Wall St 70:63-5+ My 2 '42

Justice and revenge. Economist 142:60 Ja 17 '42

Organization of Europe and American security; abstract. P. Cot. Trusts & Estates 74: 471 My '42

WORLD war, 1939—Peace and mediation *Cont.*

Paths to peace; two essays in aims and methods. F. Pick. 96p 2s 6d Routledge '41

Peace and the post-war world. J. T. Adams. Barron's 22:3-4 Jl 20 '42

Peace without platitudes; new world order whose just powers derive from the consent of the governed. J. F. Dulles. Fortune 25: 42-3+ Ja '42

Peace worth fighting for. W. E. Wickenden. Elec Eng 61:113-19 Mr '42; Same abr. Trusts & Estates 74:243-6 Mr '42

Pope Pius broadcasts new appeal for peace. Comm & Fin Chr 155:1949 My 21 '42

Rise of brutality; Germans should not be made the universal scapegoat. Economist 141:777-8 D 27 '41; Reply. Lord Vansittart. 142:74 Ja 17 '42

Special libraries after the war; eight-point war aims as affecting special libraries. E. T. Evans. Special Lib 32:333-6 N '41

Total victory. S. King-Hall. 306p $2 Harcourt '42

United nations must use force to insure post war peace or again lose it. F. C. Wiegman. Comm & Fin Chr 155:2301 Je 18 '42

War and peace. Economist 142:669-70 My 16 '42

War comes to the banker. F. C. Wiegman. Am Inst Banking Bul 24:8-9 Jl '42

When peace comes. A. R. Wurtele. 325p $2.50 Pelican pub. co. 511 Gravier st, New Orleans '41

Who sent Rudolf Hess? J. Murphy. 48p pa 6d Hutchinson & co, London '41

Winning of the peace. H. Fraenkel and R. Acland. 95p 3s 6d V. Gollancz, London '42

Bibliography

Peace aims and post-war planning. F. M. Brodie. 53p pa 25c World peace foundation '42

Peace aims and post-war reconstruction; an annotated bibliography. F. M. Brodie. preliminary ed 31 numb l Am. committee for international studies, Princeton, N.J. '41

Personal narratives

Aces wild. R. A. Winston. 320p $2.50 Holiday house, New York '41

Action in the East. O. D. Gallagher. 300p $3 Doubleday '42

Action on all fronts; a personal account of this war. R. M. Ingersoll. 330p $3.50 Harper '42

Baggage to the enemy. E. Ardizzone. 121p $1.50 Transatlantic arts, Forest Hills, N.Y. '41

Convoy. Q. Reynolds. 303p $1 Blue ribbon books '42

Devil in France; my encounter with him in the summer of 1940. L. Feuchtwanger. 265p $2.75 Viking press '41

Fighter pilot; a personal record of the campaign in France, Sept. 8, 1939-June 13, 1940. P. H. M. Richey. 122p $2 Scribner '41

Freely to pass. E. W. Beattie, jr. 372p $3 Crowell '42

From the land of silent people. R. St John. 353p $3 Doubleday '42

Lights of freedom. A. A. Michie and W. Graebner, eds. 190p 7s 6d G. Allen & Unwin, London '41

Mediterranean odyssey. A. J. Baker. 300p $2.75 Liveright '42

My name is Frank. F. Laskier. 96p $1 Norton '42

Only the stars are neutral. Q. Reynolds. 299p $2.50 Random house, New York '42

Poland at arms. A. Maclaren. 116p $1.75 Musson book co, 480 University av, Toronto, 2 '42

Prison life on a Pacific raider. B. Sandbach and G. Edge. 222p 5s Hodder and Stoughton, London '41

The raft. R. Trumbull. 205p $2.50 Holt '42

Retreat to victory. A. A. Mitchie. 492p $3 Alliance book corp, 540 N. Michigan av, Chicago; 270 Madison av, New York '42

Shanghai general agent relates war experiences. P. M. Anderson. Nat Underw (Life ed) 46:9+ O 2 '42

Suez to Singapore. C. Brown. 545p $3.50 Random house, 20 E. 57th st, New York '42

Time runs out. H. J. Taylor. 333p $3 Doubleday '42

War has seven faces. F. Gervasi. 296p $2.50 Doubleday '42

War on the western ocean; a personal account of two Atlantic crossings. S. Pribichevich. il Fortune 26:98-103, 130, 132+ O '42

While London burns; letters written to America, July 1940-June 1941. F. T. Jesse and H. M. Harwood. 379p $3.75 Macmillan (Toronto) '42

Wounded don't cry. Q. Reynolds. 253p $1 Blue ribbon books '42

Petroleum supply

All three Axis powers are deficient in oil; abstract. W. B. Heroy. Oil & Gas J 40:29 F 19 '42

Axis forces are still far from Caucasian fields. J. P. O'Donnell. il map Oil & Gas J 41:20-1 Je 4 '42

Axis powers control but four per cent of world's oil. C. O. Willson. il Oil & Gas J 40:12-13+ D 18 '41

Axis squeeze play. Business Week p42-3 F 21 '42

Believes Diesels and synthetic oils preclude Nazi defeat for lack of fuel. B. B. Williams. Steel 111:57 Jl 20 '42

Belligerent nations aim spring strategy at oil. Oil & Gas J 40:18 Ap 16 '42

Destruction of petroleum installations in the East Indies and Burma. W. A. Sawdon. il Pet Eng 14:112, 114, 116 O '42

Distribution of equipment to foreign areas. W. A. Sawdon. il Pet Eng 14:98, 100 O '42

East Indies oil territory is largely in Jap control. Oil & Gas J 40:18 F 19 '42

Impact of war on the oil industry. J. M. Lovejoy. il Min & Met 23:542-5 N '42

Japan's oil drive. Business Week p35-6 Ja 24 '42

Japs gain little immediate oil by Indies conquest. map Oil & Gas J 40:40-1 F 26 '42

Lack of steel and skilled drillers big obstacle to German oil search. Oil & Gas J 40:22 Ja 1 '42

Major oil fields of Near East long way from Nazi forces. J. P. O'Donnell. map Oil & Gas J 41:11 Jl 9 '42

Meager Japanese oil supply may be incentive for war. H. S. Norman. map Oil & Gas J 40:22-3 D 11 '41

More oil for Axis? For Comm W 8:30 Jl 18 '42

Mountains give Soviet oil fields stout protection; with discussion of Germany's supply. L. D. Wosk. il maps Oil & Gas J 40: 77-8+ D 25 '41

OPC Refining division is clearing house for war's petroleum requirements. H. D. Ralph. Oil & Gas J 41:12-13+ O 1 '42

Oil and the war. E. M. Friedwald. 88p 3s 6d W. Heinemann, Toronto '41

Oil, blood and sand. R. L. Baker. 300p bibliog(p287-8) $2.50 Appleton-Century '42

Oil is the prize of victory. il Fortune 25:70-1 F '42

Oil squeeze. map Business Week p24 My 16 '42

Oil's crucial war role. H. L. Blackburn. il Mag of Wall St 69:649-52+ Mr 21 '42

Petroleum and the war; abstract. R. E. Wilson. Chem & Met Eng 49:153-4 Je '42

Petroleum board is created jointly by army and navy. Oil & Gas J 41:27 Ag 6 '42

Petroleum resources. Am Gas J 156:42 F '42

Production of oil in the world today. W. A. Sawdon. maps Pet Eng 14:67-70 O '42

Refining facilities in the theaters of war. W. A. Sawdon. il map Pet Eng 14:108, 110 O '42

Rumania's oil; Nazi efforts partly frustrated. For Comm W 7:25 My 16 '42

Security of East Indian oil important to allied victory. J. P. O'Donnell. il map Oil & Gas J 40:14-16+ Ja 15 '42

Standard of New Jersey gives review of war contributions. Oil & Gas J 41:42 My 14 '42

Substitute fuels as a war economy. G. Egloff and P. M. Van Arsdell. bibliog(70 references) il diags Chem & Eng N 20:649-59 My 25 '42; Same cond. Inst Pet J 28:115-32 Jl '42; Same cond. Oil & Gas J 41:32+ Ag 20 '42

WORLD war, 1939—Petroleum supply—*Cont.*

Titanic struggle of resources. H. L. Ickes. Am Gas Assn Mo 24:209-12+ Je '42; Same cond. Am Gas J 156:18, 21-2 Je '42

Transport is keynote in rival strategies in oil. H. G. Austin. il Oil & Gas J 41:26-7 Je 18 '42

War has imposed two-fold task on U.S. tanker fleet. J. P. O'Donnell. map Oil & Gas J 41:98+ S 24 '42

War makes radical changes in world-production picture. J. P. O'Donnell. il Oil & Gas J 41:56-7 Jl 30 '42

World's petroleum industry resists strains of war. J. P. O'Donnell and H. S. Norman. il map Oil & Gas J 40:69-72 D 25 '41

Pictorial works

Britain in peace and war. F. Topolski. 128p $6 S. J. Reginald Saunders, 84 Wellington st. W. Toronto '41

War in our time. H. B. Henderson and H. C. Morris. 416p $3.75 Doubleday '42

War pictures by British artists. 4v pa $1.75 Oxford '42

Press reports and censorship

Admirals and generals still determine censorship policies. Steel 111:52 Ag 17 '42

Byron Price is made censorship director. Comm & Fin Chr 155:25 Ja 1 '42

Executive order establishing Office of censorship; designation of authority to issue licenses and exemptions. Fed Res Bul 28: 103-5 F '42

Nelson cites responsibilities of editors; sees daylight ahead in Nation's war effort; Voluntary censorship called up to editors, by B. Price. Comm & Fin Chr 155:1629 Ap 23 '42

Praises press on war censorship. B. Price. Comm & Fin Chr 156:1270 O 8 '42

The press. Economist 142:677-8 My 16 '42

Press and radio code revised by censor. Comm & Fin Chr 156:117 Jl 9 '42

Protection of statistical information from enemy use. S. A. Rice. Special Lib 33:243-9 S '42

Stricter censorship. Economist 142:459-60 Ap 4 '42

Wartime censorship of press and radio. R. E. Summers, comp. Ref Shelf v 15, no 8:1-297 bibliog(p287-97) '42 ($1.25)

Prices

Britain under price control. Business Week p34, 36, 40+ Ja 10 '42

British price-control act of 1941. Monthly Labor R 53:1159-60 N '41

Canada pioneers in price control. H. S. Moffatt. Barron's 22:43-4 Ja 12 '42

Canadian wartime price control. J. Backman. Dun's R 49:11-19+ D '41

Ceiling's the limit. S. Leacock. Banking 34: 19-22 D '41

Commodity supplies and prices. Fed Res Bul 28:195-201 Mr '42

Cost-of-living indexes, Argentina, during first and second World wars. Monthly Labor R 54:710 Mr '42

Cut price war. Economist 141:716 D 13 '41

Economic measures to win war proposed by Nat'l committee to keep prices down. Comm & Fin Chr 155:950 Mr 5 '42

Factors influencing the general movement of prices in Great Britain. E. R. Hawkins. Survey of Cur Business 21:11-18 D '41; 22: 12-18 Ja '42

Machinery of Canadian price control. A. F. Peterson. For Comm W 6:4-5+ Mr 7 '42

Metal prices in two wars. Min & Met 23:367-9 Jl '42

Outline of Canadian price and wage controls. For Comm W 5:12-14 N 15 '41

Price control in this war. Barron's 22:6 Ja 19 '42

Price stop policy in Europe. Economist 142: 148 Ja 31 '42

Some details of Canadian price control policy, with special reference to imports. For Comm W 5:8-9+ D 13 '41

War-time price control and price movements in an open economy: Australia, 1914-20 and 1939-40. E. R. Walker and R. J. Linford. bibliog R Econ Statis 24:75-86 My '42

See also
Prices—Regulation

Prisoners and prisons

Captured; my experiences as an ambulance driver and as a prisoner of the Nazis. B. Myers. 312p $2.50 Appleton-Century '42

I escaped from Hong Kong. J. H. Marsman. 249p $2.50 Reynal & Hitchcock, 386 4th av. New York '42

Italian prisoners of war working on British farms. For Comm W 7:32 Ap 11 '42

Prisoners' progress; an illustrated diary of the march into captivity of the last of the British army in France—June 1940. L. C. Hunt. 24p 12s 6d; ltd ed 21s 8 maps Hutchinson & co, London '41

We prisoners of war; sixteen British officers and soldiers speak from a German prison camp. T. Strong, ed. 90p $1 Association press, New York '42

Propaganda

Foreign efforts to increase disunity. C. R. Miller. Ann Am Acad 223:173-81 S '42

Moral blitz; war propaganda and Christianity. B. Causton. 126p pa 2s Secker & Warburg, London '41

News is a weapon. M. Gordon. 268p $2.50 Knopf '42

Political warfare; British and Russian propaganda. Economist 141:554-5 N 8 '41

Propaganda by short wave. H. L. Childs and J. B. Whitton, eds. 355p $3.75 Princeton univ. press '42

Radio goes to war; the fourth front. C. J. Rolo. 293p $2.75 Putnam '42

Prophecies

Great Pacific war; a historic prophecy now being fulfilled. H. C. Bywater. 321p $2.50 Houghton '42

Public opinion

Fortune management poll; what does the American executive think of his future? Fortune 26:8-10+ S '42

Fortune survey. Fortune 25:97-100 F '42

Fortune survey; expecting long war, public ready for sacrifices; behind the President. Fortune 25:41-4 My '42

Fortune survey; people expect to win a long, tough war abroad and a better life at home. Fortune 26:8-10+ Jl '42

Fortune survey; people see hard times after a long but victorious war. Fortune 24:119-22 D '41

Fortune survey; postwar world. Fortune 25: 110-12 Ap '42

Fortune survey; review of stages through which U.S. public opinion has passed during twelve months. Fortune 26:8-10+ Ag '42

French Canadian opinion on the war, Jan. 1940-June 1941. E. H. Armstrong. 44p bibliog(p44) pa 40c Ryerson press '42

Public opinion in flux. H. Cantril. Ann Am Acad 220:136-52 Mr '42

When will war end? various opinions. Elec West 88:56-9 Je '42

Rationing

See Rationing; World war, 1939—Commodity control

Reconstruction

See Reconstruction (World war, 1939-)

Refugees

See Refugees

Relief work

Care of children coming to the United States for safety under the attorney general's order of July 13, 1940; standards prescribed by the Children's bureau. U S Children's Bur Pub 268:1-28 '41

WORLD war, 1939—Relief work—*Continued*
President creates War relief control board. Comm & Fin Chr 156:359 Jl 30 '42
See also
Red cross

Religious aspects

Churches of Europe. Economist 142:503-4, 540-1 Ap 11-18 '42
Judgment of the nations. C. Dawson. 222p $2.50 Sheed & Ward, 63 5th av, New York '42
My battle. C. Morrison. 206p bibliog(p160-1) $2 Meador pub. co, Boston '42
Religion and the present crisis. J. Knox, ed. 165p $1.50 Univ. of Chicago press '42
This Christian cause (a letter to Great Britain from Switzerland). K. Barth. 53p bds 75c Macmillan '41

Science and the war

American scientists and the war effort. O. A. Battista. Rayon 23:594-5 O '42
Complete utilization of scientifically trained personnel. H. Grundfest. Science 96:318-19 O 2 '42
Duty of the entomologist. T. D. A. Cockerell. Science 96:338 O 9 '42
First report of the War policy committee of the American institute of physics. Science 95:508-9 My 15 '42
Full utilization of scientific personnel. C. H. Behre, jr, H. Grundfest and E. A. Kabat. Science 96:16 Jl 3 '42
Le coq d'or; editorial from Nature. R Sci Instr 13:199-201 My '42
Master science, in war, in peace; physicists and the war. A. G. Ingalls. Sci Am 167:3 Jl '42
Mobilization of science in national defense. F. B. Jewett. Science 95:235-41 Mr 6 '42; Same. Inst Radio Eng Proc 30:113-18 Mr '42; Same abr. Mech Eng 64:13-16 Ja '42
Molders of a better destiny. C. M. A. Stine. Science 96:305-11 O 2 '42; Same. Chem & Eng N 20:1085-9 S 10 '42; Excerpts. Min & Met 23:597-9 D '42
Office of scientific research and development. K. T. Compton. J Eng Educ 33:59-69 S '42
Organization of science for war production. E. D. Swann. Chem & Ind 60:813-14 N 15 '41
Research as usual. E. Blackwelder. Science 96:158-9 Ag 14 '42
Russia at war; science and war. Economist 143:112 Jl 25 '42
Science and the war effort; conference, London, Jan. 10-11. Engineer 173:58-9 Ja 16 '42
Science and war. P. L. Kapitsa. Science 95: 396-8 Ap 17 '42; Excerpts. Mech Eng 64:483 Je '42; Comment by New York times. Science 95:434 Ap 24 '42
Scientific research and the war. W. Davis. Science 94:sup14 D 19 '41
Scientific research in war and peace. D. Sarnoff. Science 96:326-8 O 9 '42
Technological high command. il Fortune 25: 62-7+ Ap '42; Same. Inst Radio Eng Proc 30:309-18 Jl '42; Discussion. Fortune 26:36 Jl '42
War work of the Canadian research council. Science 95:63-4 Ja 16 '42
Wartime electrical research. L. A. Hawkins. il Elec Eng 61:285-8 Je '42; Same. Gen Elec R 45:323-5 Je '42; Abstract. Electrician 129:134-5 Ag 7 '42
Wartime scientific manpower production. J. S. Nicholas. Science 96:135-6 Ag 7 '42
We need more physicists. E. U. Condon. il Sci Am 166:224-6 My '42

Secret service

Total espionage. C. Riess. 318p $2.75 Putnam '41

Shipping

Admiral Land to head new War shipping administration. Comm & Fin Chr 155:688 F 12 '42
Allied merchant fleets in Britain. Economist 142:648+ My 9 '42
Argentina and Italy sign agreement on purchase of ships. For Comm W 5:10 D 6 '41
Axis shipping bottleneck; control of French merchant-marine would greatly relieve German transport problem. P. Wohl. Barron's 22:9 Ap 20 '42
Bottlenecks. Economist 143:328 S 12 '42
Enemy action has sunk nine U.S. tankers, mostly old. J. P. O'Donnell. il Oil & Gas J 40:39-41 F 26 '42
Enemy shipping losses. Economist 141:716-17 D 13 '41
Far Eastern shipments curtailed by war in Pacific. Oil Paint & Drug Rep 140:3+ D 15 '41
Germany refuses to consider compensation to U.S. for sinking of Robin Moor. Comm & Fin Chr 154:1039 N 13 '41
Information leaks to enemy by law actions. E. C. Stiefel. Weekly Underw 147:276 Ag 8 '42
Inter-American shipping pool. Comm & Fin Chr 155:1872 My 14 '42
Men and ships, today's unbeatable team. E. S. Land. For Comm W 9:3+ O 24 '42
Most critical sector; Allied and neutral shipping losses in two wars. Barron's 22:1 My 4 '42
No. 1 bottleneck now is lack of ships. il Fortune 25:64-71+ My '42
Scuttling and damaging of Italian vessels in United States ports, viewed under American law. Weekly Underw 145:1188 N 22 '41
Shipbuilding, no. 1 bottleneck. Business Week p13-14 Ap 11 '42
Shipping losses. Economist 142:300 F 28 '42
Ships for a long-distance war. Business Week p14+ Mr 7 '42
Ships for Allies; Allied governments may purchase merchant vessels constructed on behalf of the British government. Economist 143:72 Jl 18 '42
Transportation: key to our war effort. W. Gates. il Mag of Wall St 70:19-22+ Ap 18 '42
U.S., Britain set up three boards to handle materials, munitions and shipping. Comm & Fin Chr 155:572 F 5 '42
U.S. takes over liners Normandie, Kungsholm. Comm & Fin Chr 155:19 Ja 1 '42
War has imposed two-fold task on U.S. tanker fleet. J. P. O'Donnell. map Oil & Gas J 41:98+ S 24 '42
War on the western ocean; a personal account of two Atlantic crossings. S. Pribichevich. il Fortune 26:98-103, 130, 132+ O '42
War problems of the merchant marine. E. S. Land. Marine Eng 47:95-7 Je '42
Who should get the ships? il Fortune 25: 70-5+ Je '42
Wood, wind, and sail, the coffee fleet; with table giving ports of call, time, and cargo of the sailing fleet. W. C. Taylor. il map For Comm W 7:3-5, 41-2 My 23 '42
Wooden schooners to meet ship shortage. Barron's 22:4 Jl 13 '42

Social aspects

This war is a revolution, but will not end in the clouds or in the ditch. B. Barton. Ptr Ink 199:19-21+ Je 26 '42
Why peaceful revolution fails. W. E. Stephens. Trusts & Estates 75:23 Jl '42

Strategy

As I see it! the second front. C. Benedict. il Mag of Wall St 70:577+ S 19 '42
Battle for Africa. C. Benedict. il Mag of Wall St 71:105+ N 14 '42
Chéradame's plan. il Fortune 26:82-3 O '42
Combined chiefs of staff group set up. Comm & Fin Chr 155:672 F 12 '42
Defense will not win the war. W. F. Kernan. 193p $1.50 Little '42
Disagreement in some military circles over whole war strategy coming to surface. E. Blair. Barron's 22:4 Jl 27 '42
Double play, East and West. map Business Week p26-7 D 20 '41
From Cairo to Karachi to Kamchatka to Ketchikan. A. A. Michie. map Fortune 25: 90-3+ Mr '42
Pacific war council set up at Washington Comm & Fin Chr 155:1446 Ap 9 '42

WORLD war, 1939—Strategy—*Continued*

Roosevelt, Churchill confer on war conduct. Comm & Fin Chr 155:2387 Je 25 '42
Roosevelt, Churchill pledge second front. Comm & Fin Chr 156:113 Jl 9 '42
Spring strategy. Business Week p36+ My 2 '42
Strategy for victory. H. W. Baldwin. 172p $1.75 Norton '42
Time to gamble? Business Week p24+ My 30 '42
Unified command. Fortune 26:78-81+ O '42
United nations. Economist 142:134-5 Ja 31 '42
United nations. M. Straight. Ann Am Acad 222:32-7 Jl '42

Supplies

Arctic supply line; shortest and safest way to send aid to Russian and Chinese allies. V. Stefansson. map Fortune 26:64-6+ Jl '42
Axis and strategic minerals. E. W. Pehrson. Eng & Min J 143:42 My '42; Same cond. Metals & Alloys 15:1014+ Je '42
Axis threatens Soviet supply line across Iran. il map Business Week p35 Jl 11 '42
Battle for supplies. Economist 141:713 D 13 '41
Cargo planes hold hope for transport of supplies and munitions to far-flung battlefronts. il Steel 111:66+ Jl 6 '42
Critical war materials already scarce. Machine Design 14:152+ Je '42
Democracy in its struggle looks to the engineer. D. D. Ewing. Elec Eng 61:402-5 Ag '42
Effect of metal shortages on war. D. M. Nelson. Iron Age 150:93-5 Jl 2 '42
Effect on U.S. economy, as world supplies of basic materials change hands. V. L. Horoth. il Mag of Wall St 70:632-4+ O 3 '42
Effects of a two-ocean war. Barron's 21:6 D 15 '41
Engineer's contribution to the war effort; problem of material shortages. N. G. Symonds. Elec Eng 61:132-4 Mr '42
Engineer's job in war production; addresses at the All engineers dinner, Washington, D.C. May 18. Mech Eng 64:517-21 Jl '42
Europe works for Hitler. Business Week p76+ S 12 '42
Facing the facts; substitution and conservation of materials. D. M. Nelson. Machine Design 14:45-6+ Mr '42
German war supplies; 1941-42 and 1942-43 German demands on France. Trusts & Estates 75:224 S '42
High lights of the session on ores, metals, and the war at the annual meeting, A.I.M.E. il Min & Met 23:210-14 Ap '42
Hitler's plan; Nazis bleed occupied countries of industrial might. Business Week p72+ S 19 '42
How war makes have-nots. Barron's 22:6 Ap 27 '42
Logistics; the problem of delivering the goods. J. L. Walsh. Mech Eng 64:384-5 My '42
Materials, and their scarcity ratings. Business Week p24 My 2 '42
Materials shortages hamper production in occupied countries. J. A. Horton. Steel 110:34+ Mr 23 '42
Mineral needs of a world at war. J. R. Suman. Min & Met 23:9-13 Ja '42
Nazis surprisingly well supplied with minerals essential for war; estimated 1942 production in German controlled and supplying countries. C. W. Wright. Steel 110:47 Ja 26 '42
1942, the year to win or lose; report to executives. il maps Business Week p33-44, 46 Mr 14 '42
Our enemies, chemically speaking. K. Falk. Chem & Met Eng 49:80-3+ Ja '42
Part plastics are playing in the British war program and our interest in American plastics program. H. Self. Mod Plastics 19:44d-44f My '42
Pooling of allied resources on engineering basis in effect replacing lease-lend. E. Blair. Barron's 21:4 D 29 '41
Problem of supply of war materials and its control still unsolved. E. Blair. Barron's 22:4 Ag 3 '42
Resources for victory. J. E. Orchard. 36p pa 25c Columbia univ. press '42
Role of metals in the war. W. C. Hirsch. il Automotive & Aviation Ind 87:60-3+ O 1 '42
Siberian resources for Soviet warfare. G. B. Cressey. Science 95:264-6 Mr 13 '42
Soldiers of American business; armed with brief cases and determination, they're winning the battle of production. V. B. Guthrie. Nat Pet N 34:34-6 Jl 15 '42
Strategic, critical war materials listed; supplies of many are scarce. Steel 110:68 My 4 '42
Strategic materials and national strength. H. N. Holmes. 106p $1.75 Macmillan '42
Strategic materials in hemisphere defense. M. S. Hessel, W. J. Murphy and F. A. Hessel. 235p bibliog(p225-35) $2.50 Hastings house, 67 W. 44th st, New York '42
Task of the engineering colleges in the war effort. W. L. Batt. J Eng Educ 33:182-9; Discussion. 189-92 O '42
Three hundred Panama canals in one year; war production task; help by saving. J. L. Walsh. Ry Mech Eng 116:291-3 Jl '42
U.S.-Britain combine production, resources. Comm & Fin Chr 155:2202 Je 11 '42
U.S., Britain set up three boards to handle materials, munitions and shipping. Comm & Fin Chr 155:572 F 5 '42
U.S. mission to study India as supply base. Comm & Fin Chr 155:1168 Mr 19 '42
War of distances; getting the stuff to fighting fronts is the great 1942 dictator. il maps Fortune 25:66-9, 177-8, 180+ Je '42
War-production conference, first of series, held at Newark, N.J. Elec Eng 61:382-3 Jl '42
War production of the Allies. Engineering 153:492 Je 19 '42
War still centers in Washington; long-term supply problem. Business Week p41 Je 6 '42
Washington's war-materials achievements; World wars I and II compared. L. Peat. Metals & Alloys 16:608-21 O '42
World-planning; effort to speed flow of materials by lowering tariffs. Business Week p54 F 7 '42

See also
Raw materials
World war, 1939—Commodity control
World war, 1939—Food question
World war, 1939—Petroleum supply

Transportation

Arctic supply line; shortest and safest way to send aid to Russian and Chinese allies. V. Stefansson. map Fortune 26:64-6+ Jl '42
Automobile transportation in the war effort. C. L. Dearing. 47p pa 25c Brookings institution, Washington, D.C. '42
Lifelines of victory. M. Harris. 160p $2 Putnam '42
War for the skies: we must ship by air; offers speed, safer routes, and huge savings in materials. il maps Fortune 26:84-9+ Ag '42

See also
World war, 1939—Shipping

War aims

Columbus; victory through one great compelling idea. W. LaVarre. For Comm W 9:3, 33 O 10 '42
Europe; a new economic order rises. maps Fortune 25:48-51+ Ja '42
For a total victory. M. Kwapiszewski. Ann Am Acad 222:54-9 Jl '42
Japanese; their god-emperor medievalism must be destroyed. il Fortune 25:52-7+ F '42
Peace is only return for aid sought by U.S. D. Acheson. Comm & Fin Chr 156:181 Jl 16 '42
Postwar planning. W. Lloyd George. Special Lib 33:255-9+ S '42
Psychopolitics. I. A. Richards. Fortune 26:108-9, 114, 116 S '42

WORLD war, 1939—War aims—*Continued*
War objective called liberty, liberation by President Roosevelt. Comm & Fin Chr 156: 1452 O 22 '42

See also
Atlantic charter, 1941

Women's work

Bringing up reserves. Economist 143:330 S 12 '42
British order on employment of women, 1942. Monthly Labor R 54:916-17 Ap '42
Calling all women. K. Ayling. 208p $2 Harper '42
Calling up women. Economist 142:63 Ja 17 '42
Civil defense measures for the protection of children; report of observations in Great Britain, Feb. 1941. M. M. Eliot. (Publication 279) 186p bibliog(p179-86) U.S. Children's bur, Washington '42
Domestic service; work from women who have inescapable home ties. Economist 141: 684-5 D 6 '41
England finds draft of women for war work is essential to successful war production. Am Mach 86:742d Jl 9 '42
Filling men's shoes; in wartime England women play important part in transportation. il Bus Transportation 21:170-1 Ap '42
Fire watching for women. Economist 143:202 Ag 15 '42
Foresees 6 million women engaged in war work Comm & Fin Chr 155:1860 My 14 '42
General conscription of manpower in Great Britain, 1941. Monthly Labor R 54:385-6 F '42
Manpower crisis: fresh labor must be found for war factories. Economist 142:350-1 Mr 14 '42
Men and women: conditions in the women's services. Economist 142:182 F 7 '42
Millions of women war workers needed to achieve arms goal. T. McKelvey. il Steel 110:60 Ap 6 '42
No need to register women, says President. Comm & Fin Chr 155:1877 My 14 '42
Restraint of women. Economist 142:140-1 Ja 31 '42
Service women: Markham report on conditions in the services. Economist 143:325-6 S 12 '42
Sweethearts and wives: their part in war. T. Benson. 114p 5s Faber & Faber, London '42
War-time employment of women in the chemical industry. Chem & Ind 60:873-5 D 13 '41
Withdrawal of young women from certain pursuits in Great Britain. Monthly Labor R 54:387 F '42
Women conscripts. Economist 141:781-2 D 27 '41
Women for defense. M. C. Banning. 243p $2.50 Duell, Sloan & Pearce, New York '42
Women in war industries. H. Baker. 82p bibliog(p70-82) pa $1.50 Industrial relations section, Princeton univ, Princeton, N.J. '42
Women in war industries; their increasing role in the production program. Index 22 no 3:58-64 [S] '42
Women in war production. T. McKelvey. 32p pa 10c Oxford '42
Women in wartime Britain. Factory Management 100:62 Mr '42
Women operate cranes, fire guns, bend tubing. il Steel 110:55 Je 15 '42
Women people? J. Austin. Ptr Ink 201:21-2 O 23 '42
Women war workers less now than in 1918. Comm & Fin Chr 155:1062 Mr 12 '42
Women's factory employment in an expanding aircraft production program. 25 numb l U.S. Women's bur, Washington '41
Women's pay. Economist 141:646-7 N 29 '41
Women's war; British have set pattern for conscription of women. Business Week p48+ F 14 '42
Women's war; McCall's magazine turns February cover to a pledge button. Business Week p58 Mr 7 '42

See also United States—Army—Women's army auxiliary corps

Bibliography

Women's part in World war II. F. S. Hellman, comp. 84p U.S. Lib. of Congress, Division of bibliography, Washington '42

Africa, North

Aircraft maintenance problems in North Africa; desert problems. R. Toland. il S A E J 50:sup46-8 N '42

Alaska

Alaska under arms. J. Potter. 200p $2 Macmillan '42

Aleutian islands

Aleutian seizures are serious. Business Week p42 Je 27 '42

Argentina

Restraint in Argentina. Economist 142:224 F 14 '42

Asia

Asia's captive colonies. P. E. Lilienthal and J. H. Oakie. 48p pa 10c American council. Inst. of Pacific relations, New York '42
Asia's part in war and peace. T. Das. Ann Am Acad 222:42-53 Jl '42
Inside Asia. J. Gunther. 1942 war ed rev 637p bibliog(p608-11) $3.50 Harper '42

Australia

Arsenal of the south Pacific. G. Wood. il Trusts & Estates 74:122-4 F '42
Australia, its genesis, present and future; and what is the future of economic man. H. Gepp. Paper Tr J 114:40-4 Mr 5 '42
Australia mobilises. Economist 142:216-17 F 14 '42
Australian austerity. Economist 143:264 Ag 29 '42
Australia's war effort. Economist 142:177-8 F 7 '42
Australia's war effort. Economist 143:361-2 S 19 '42
Australia's war effort. H. Gepp. Mech Eng 64:309-12 Ap '42
To the people of Britain at war. R. G. Menzies. 95p $1.25 Longmans (Toronto) '41
Wartime price and trade controls. M. B. Dale. il For Comm W 6:8-9+ Ja 3 '42

Balkan states

Balkan base. Economist 142:414-15 Mr 28 '42
Balkan satellites. Economist 143:512-13 O 24 '42

Belgium

Belgium; the official account of what happened, 1939-1940. 110p $2.50 Didier publishers, New York '41
Will not review writ attaching French gold. Comm & Fin Chr 155:2129 Je 4 '42

See also
Belgium—German occupation

Brazil

Brazil blazes new economic trail. V. L. Horoth. il Mag of Wall St 70:580-2+ S 19 '42
Brazil declares war on Germany and Italy. Comm & Fin Chr 156:727 Ag 27 '42
Brazil; the new ally. il map Fortune 26:104-9+ N '42
Brazil's entry is nicely timed. Business Week p32 Ag 29 '42
Results of war declaration; coordinator of economic mobilization, with wide powers, appointed. For Comm W 9:12-13 O 24 '42

Bulgaria

Bulgarian destiny. Economist 141:749 D 20 '41

Canada

All utilities share in Canadian war effort; Public utilities wartime workshop board. J. K. Wilson. il Elec W 118:281-2 Jl 25 '42
American entente; United States' war is Canada's war as Mackenzie King pulls two neighbors closer together than ever before. Business Week p36+ D 27 '41

WORLD war, 1939—Canada—*Continued*

Canada and the United nations. Economist 142:681-2 My 16 '42
Canada at Britain's side. W. L. M. King. 332p $3 Macmillan '41
Canada at war. Automotive Ind 86:42+ Ja 15 '42
Canada's war effort. Economist 141:555-6, 585-6 N 8-15 '41
Canadian war economics. J. F. Parkinson, ed. 191p $1.75 Univ. of Toronto press, Toronto '41
Canadian wartime economic policies. Nat City Bank p20-3 F '42
Come on, Canada! S. A. Saunders and E. Back. 36p pa 35c Ryerson press '41
Doubts in Ottawa; whether to join U.S. and Britain in munitions pool. Business Week p34-5 My 16 '42
Estimating Canada's war effort. Economist 142:466-7 Ap 4 '42
Grist for M.P.'s. Business Week p32 Ja 24 '42
Mobilizing Canada's resources for war. A. F. W. Plumptre. 306p $3.25 Macmillan '42
One shipload a day; a tale of the Canadian forestry corps; cutting timber in Scotland to relieve wood shortage. Q. Reynolds. il Pulp & Pa of Can 43:451-5 My '42
Regulatory legislation in Canada incident to war time basis. J. T. Madden. Comm & Fin Chr 155:110 Ja 8 '42
Shadow of coming events; Canada shows the way in transition to full war production and controls. V. L. Horoth. il Mag of Wall St 69:134-6+ N 15 '41
Singapore and Canada. Economist 142:429 Mr 28 '42
War economy in Canada. G. T. Cartinhour. Bankers M 144:305-9 Ap '42
Wartime national efficiency. G. A. Gaherty. Elec Eng 61:547-50 N '42

Bibliography

Official war publications; guide to state, federal, and Canadian publications. J. K. Wilcox. p1-23 Bur. of public administration, Univ. of California, Berkeley '42

Chile

Chilean president defers visit to U.S. incident to speech of Welles. Comm & Fin Chr 156:1549 O 29 '42

China

China's leap from the middle ages. C. W. Van Patter. il W Soc E J 47:17-21 F '42
China's place in the present world struggle. Hu Shih. 14p pa 20c Univ. of Pennsylvania press, 3622 Locust st, Philadelphia '42
Chinese policy. Economist 142:8-9 Ja 3 '42
We are still taking a hell of a beating; because the Chinese are, and have been for five years. Fortune 26:112+ Ag '42

Czechoslovakia

Executions in Czechoslovakia. Economist 141:475 O 18 '41
Meaning of Heydrich. Economist 142:795-6 Je 6 '42

Egypt

Egypt, the crossroads. Business Week p37-8 Jl 4 '42

Ethiopia

Ethiopia welcomed as one of the United nations. Comm & Fin Chr 156:1451 O 22 '42

Far East

Action in the East. O. D. Gallagher. 300p $3 Doubleday '42
Far Eastern war, 1937-1941. H. S. Quigley. 369p bibliog(p333-42) $2.50; pa $1 World peace foundation '42

Finland

Finland rejects peace. Economist 141:590-1 N 15 '41
Finland's war burden. Economist 141:687 D 6 '41
Finnish prospects. Economist 143:232 Ag 22 '42
Finns' dilemma. Economist 142:821-2 Je 13 '42
Hull warns Finns on added aid to Axis. Comm & Fin Chr 155:2201 Je 11 '42

France

Behind the Maginot line; economic and political lessons from the experience of France. A. Istel. Trusts & Estates 73:475-80 N '41
Escape from France. Claire, pseud. 117p 2s 6d R. Hale, London '41
Fighting France: Gaullisme. Economist 142:786 Je 6 '42
France and the war. L. Dostert. 32p pa 10c Oxford '42
France, 1940-1942. H. C. Rice, comp. 221p bibliog(p195-218) pa $1 Harvard cooperative soc, Cambridge, Mass. '42
France of tomorrow. A. Guérard. 287p $3.50 Harvard univ. press '42
French lesson; a study of the industrial demoralization that led to the fall of France. P. E. Lamarche. il Aviation 41:56-7, 208, 210+ Ja '42
French resistance: the implications. Economist 142:747-8 My 30 '42
French resistance to forced labor praised by Secretary Hull. Comm & Fin Chr 156:1640 N 5 '42
French soldier speaks. Jacques, pseud. 138p $1.25 Macmillan '42
Hull says U.S. policy toward Vichy directed toward liberation of France. Comm & Fin Chr 156:1711 N 12 '42
Myth of empire. Economist 142:707-8 My 23 '42
Prisoners of hope; report on a mission. H. L. Brooks. 319p $2.75 L. B. Fischer pub. corp, New York '42
Riom trials. Economist 142:428-9 Mr 28 '42
Shame of Vichy. E. Jones. 100p 2s 6d Hutchinson & co, London '41
Trial of the Republic. Economist 142:275-6 F 28 '42
Twilight of France, 1933-1940. A. Werth. 368p $3.50 Harper '42
Uncensored France; an eyewitness account of France under the occupation. R. P. Porter. 305p $2.75 Dial press, New York '42
Vichy avers neutrality in reply to FDR query. Comm & Fin Chr 155:1050 Mr 12 '42
Vichy rejects plan to remove ships from Egypt. Comm & Fin Chr 156:279 Jl 23 '42
Vichy's gleichschaltung. Economist 143:350-2 S 19 '42
With love for France. H. Mackay. 139p $2 Scribner '42
Yankee fighter; the story of an American in the Free French foreign legion. J. F. Hasey. 293p $2.50 Little '42

Germany

Air force targets in Germany (cont). il maps Engineer 172:326-7, 416-19, 437-8 N 14, D 12-19 '41
Assignment to Berlin. H. W. Flannery. 439p $3 Knopf '42
Campaign of treachery. H. Torrès. 256p $3 Dodd '42
Changes in command. Economist 142:226-7 F 14 '42
Conversation in London. S. Laird and W. Graebner. 120p $1.50 Morrow '42
German man power: the crucial factor. F. Sternberg. 44p pa 25c Brookings institution, 722 Jackson pl, Washington, D.C. '42
Hitler's plan; Nazis bleed occupied countries of industrial might. Business Week p72+ S 19 '42
Know your enemy. A. Loudon. Ann Am Acad 222:26-31 Jl '42
Last train from Berlin. H. K. Smith. 359p $2.75 Knopf '42
Ostland; German occupation of the Baltic states, etc.; organising the new conquests. Economist 141:616-17 N 22 '41
Redemption of democracy; the coming Atlantic empire. H. Rauschning. 243p $3 Alliance bk. corp, New York '41
Safe conduct compact broken by Germany. Comm & Fin Chr 156:109 Jl 9 '42

WORLD war, 1939—Germany—*Continued*
Self-betrayed; glory and doom of the German generals. C. Riess. 402p bibliog(p387-92) $3 Putnam '42
Status of Axis economic order in Europe and Asia. V. L. Horoth. il Mag of Wall St 71:16-18+ O 17 '42
Third phase: technical concentration and the decentralisation of economic administration. Economist 142:830 Je 13 '42
This is the enemy. F. Oechsner. 364p $3 Little '42
War still centers in Berlin. Business Week p30-2 D 27 '41
What about Germany. L. P. Lochner. 395p $3 Dodd '42
Will Germany crack? a factual report on Germany from within. P. Hagen. 283p $2.75 Harper '42
See also
Europe—Anti-German activities

Great Britain

Allies in arms; the battle for freedom. O. Rutter, ed. 160p 21s George Allen & Unwin, ltd, London, W.C. 1 '42
Architects handle humanity instead of building programs in Britain's civil defense. E. Reid. Arch Rec 91:22+ Mr '42
Battle of Britain, 1940. J. M. Spaight. 231p $4 S. J. Reginald Saunders, 84 Wellington st, W, Toronto '41
Besides Churchill, who? A. S. Cunningham-Reid. 127p pa 2s 6d W. H. Allen & co, London '42
Britain after three years at war; graphs. Business Week p40 S 12 '42
Britain at war. J. B. Priestley. 118p pa 35c Harper '42
Britain under fire. 95p $1.80 Transatlantic arts, 69-81 108th st, Forest Hills, N.Y. '41
Britain under shellfire. F. Illingworth. 64p pa 6d Hutchinson & co, London '42
Britain's battle for aircraft production. O. Lyttelton. il Aero Digest 41:93-4 Jl '42
Colonial commandos? Economist 142:597 My 2 '42
Conversation in London. S. Laird and W. Graebner. 120p $1.50 Morrow '42
Debate on production; statements made in the House of commons by the Minister of production and the Minister of supply. Engineer 174:67-70 Jl 24 '42
Defiant city. J. Bató. 108p $3.75 Ryerson press '42
Dover front. R. Foster. 158p $2 S. J. Reginald Saunders, 84 Wellington st, W, Toronto '41
Effects of the war on British marketing. E. R. Hawkins. U S Bur For & Dom Com, Economic Ser 18:1-74; pa 15c Supt. of doc. '42
History under fire. J. Pope-Hennessey. 117p 8s 6d B. T. Batsford, London '41
Hospitals under fire, but the lamp still burns. G. C. Curnock, ed. 148p 7s 6d G. Allen & Unwin, London '41
How British transport men react to blitzes and war conditions. Mass Transportation 38:10-12 Ja '42
How England utilizes small plants in war work. A. J. Liebling. Steel 110:54-5, 82+ F 9 '42
How industry is regulated in wartime Britain. il Factory Management 99:77+ D '41
Impact of war on long-term unemployment in Great Britain. bibliog Int Labour R 45:44-63, 297-301 Ja, Mr '42
Labour's aims in war and peace. C. R. Attlee and others. 153p $1.75 Rand book store, 7 E. 15th st, New York '42
Meet the common people. E. Craig and G. Bradley. 95p $2.50 Studio publications, 381 4th av, New York '42
Mobilization of the home front; the British experience and its significance for the United States. E. H. Biddle. 47p pa 60c Public administration service, 1313 E. 60th st, Chicago '42
National defense, utility conditions in England as viewed by an official U.S. observer. F. M. Roessing. Am Gas Assn Proc 1941:627-34; Same cond. il Am Gas J 155:31-2, 34-6 D '41
New start. Economist 142:273-4 F 28 '42
Notebook in wartime. G. E. Elton. 239p $2 William Collins sons & co, 70 Bond st, Toronto, 2 '41
Obligation to serve. Economist 141:709-10 D 13 '41
Out of the blitz; the gates of hell shall not prevail. P. G. S. Hopwood. 190p $2 Revell '42
Plague year, March, 1940-February, 1941. A. Weymouth. 251p 10s 6d G. G. Harrap & co, London '42
Plainspoken truth; reply to editors of Life. Economist 143:469-70 O 17 '42
Preview from Britain. Business Week p30 D 20; 34 Ja 10; 34 Ja 31; 34 F 28; 46 Ap 4; 34 Ap 25 '42
Rebirth of the R.A.F. il Aviation 41:136-7+ Ja '42
Seven changes in England; abstract. A. Nevins. Trusts & Estates 74:31 Ja '42
These two strange years; letters from England, Oct. 1939-Sept. 1941. Mrs St Loe Strachey. 54p pa 50c Commonwealth fund, New York '42
They stayed in London. G. Sava. 253p 7s 6d Faber and Faber, London '41
United command. Economist 142:383-4 Mr 21 '42
Unity of command. Economist 142:557-8 Ap 25 '42
War brings profound changes to Great Britain; pictographs. Steel 111:47 N 9 '42
War cabinet? Economist 142:174-5 F 7 '42
War-time controls and restrictions on domestic trading in the United Kingdom. L. G. Holliday. bibliog Special Lib 33:5-10 Ja '42
What an English company accomplished in converting to war production. V. Delport and J. A. Horton. Steel 111:88+ Jl 13 '42
Women and children last; a woman reporter's account of the battle of Britain. H. Marchant. 190p 6s V. Gollancz, London '41
See also
World war, 1939—Canada

Greece

Greece fights; the people behind the front. H. W. Davis, ed. 96p pa $1 Am. friends of Greece, New York '42
Greek resistance lauded by President Roosevelt. Comm & Fin Chr 156:1725 N 12 '42

Guatemala

Guatemala declares war with Japan, Germany, and Italy. For Comm W 6:15 Ja 24 '42

Hawaiian Islands

Remember Pearl harbor! B. Clark. 127p $1.25 Modern age books, New York '42
Report on Japanese attack on Pearl Harbor; commanders blamed for not heeding warnings. Comm & Fin Chr 155:571 F 5 '42
Secretary of the Navy Knox makes report on damage done in attack on Pearl Harbor. Comm & Fin Chr 154:1553+ D 18 '41

Hongkong, China

I escaped from Hong Kong. J. H. Marsman. 249p $2.50 Reynal & Hitchcock, 386 4th av, New York '42
Paper makers at Hong Kong; eleven Canadian companies represented. Pulp & Pa of Can 43:5-8 Ja '42

Hungary

Hungarian destiny. Economist 143:473-4 O 17 '42
Hungarian vortex. Economist 142:64-5 Ja 17 '42
Hungary at war. Economist 141:564-5 N 8 '41

India

After Mr Gandhi. Economist 142:9 Ja 3 '42
American economic mission to India. C. L. Wood. il For Comm W 6:4-5, 14-15 Ap 4 '42
Asia's part in war and peace. T. Das. Ann Am Acad 222:42-53 Jl '42
Hindus making vital decision. Business Week p53 Ag 8 '42

WORLD war, 1939—India—*Continued*

India and the war; an analysis of the Cripps mission and its aftermath. K. L. Mitchell. 48p pa 25c Amerasia, 125 E. 52d st, New York '42
India as a war arsenal. F. H. McConnell. map Barron's 22:9-10 Ap 13 '42
India at stake. Economist 142:525-6 Ap 18 '42
India, the war and Cripps mission. P. G. Krishnayya. 16p pa 25c P. G. Krishnayya, 140 Claremont av, New York '42
Indian looks at the war. G. S. Bajpai. Ann Am Acad 222:38-41 Jl '42
Indian open door? Business Week p40-2 Mr 21 '42
India's war resources. map Economist 142:607-8 My 2 '42
One more chance. Economist 142:279-80 F 28 '42
U.S. mission to study India as supply base. Comm & Fin Chr 155:1168 Mr 19 '42

Ireland

Cable from Eire. map Fortune 25:36+ Mr '42
Report on Eire. Economist 143:68-9, 100-1 Jl 18-25 '42

Italy

Economics on the Axis. Economist 141:464-5 O 18 '41
Failure of fascism. Economist 142:634-5 My 9 '42

Japan

Blueprint for victory. H. Brett. 215p $1.75 Appleton-Century '42
How Japan plans to win. K. Matsuo. 323p $2.50 Little '42
Japan: a world problem. H. J. Timperley. 150p bibliog(p141-6) $1.75 Day '42
Japan fights against own welfare. J. C. Grew. Comm & Fin Chr 156:1530-1+ O 29 '42
Japanese air power. E. Speyer. il Aviation 41:94-7+ S '42
Japanese enemy: his power and his vulnerability. H. Byas. 107p $1.25 Knopf '42
Japan's empire. Economist 142:851-2 Je 20 '42
Japan's strength through weakness. Fortune 25:157-61 F '42
Know your enemy. A. Loudon. Ann Am Acad 222:26-31 Jl '42
Meager Japanese oil supply may be incentive for war. H. S. Norman. map Oil & Gas J 40:22-3 D 11 '41
Setting sun of Japan. C. Randau and L. Zugsmith. 342p $3 Random house, New York '42
Status of Axis economic order in Europe and Asia. V. L. Horoth. Mag of Wall St 71:16-18+ O 17 '42
Success brings Japanese industrial problems; German view. J. W. Reichert. Iron Age 150:45 S 24 '42
Tokyo's one-way road to war. Business Week p64-6 N 22 '41
War visits Japan. map Business Week p30+ Ap 25 '42

Kenya colony

Mobilising the colonies. Economist 142:352 Mr 14 '42

Latin America

Latin America and the Axis. Economist 142:107-8 Ja 24 '42
Latin America and the war. V. M. Dean. 63p pa 25c Oxford '42
Trials and errors; memorandum on our southern front. E. Janeway. Fortune 25:182-5 My '42
War and Latin America. map Economist 142:789-92 Je 6 '42

Libya

Desert war. R. Hill. 310p $2.75 Knopf '42

London

Battle of Waterloo road. D. Forbes-Robertson and R. Capa. 124p $2 Random house, New York '41

Mediterranean sea

From Gibraltar to Suez; the battle of the Middle sea. J. M. K. Strabolgi. 263p $2.50 Ryerson press '41
Mediterranean front. A. Moorehead. 306p $2.75 McGraw-Hill '42

Mexico

Mexican war aid. Business Week p32+ My 30 '42
Mexico joins in war against Axis powers. Comm & Fin Chr 155:2133 Je 4 '42
Mexico welcomed as U.S. ally in war. Comm & Fin Chr 155:2216 Je 11 '42

Near East

Middle East. il maps Fortune 25:62-71, 170, 172+ F '42
Middle East; showdown has come. map Business Week p14 Jl 4 '42
Middle Eastern front. Economist 143:2-4 Jl 4 '42
Middle Eastern outlook. Economist 142:210-11 F 14 '42

Netherlands

Holland fights the Nazis. L. de Jong. 138p 5s L. Drummond, London '41
Netherlands at war. H. S. Ashton. 130p $2 Musson book co, Toronto, 2 '41
Netherlands pledges cooperation with U.S. Comm & Fin Chr 155:120 Ja 8 '42

New Zealand

New Zealand's new administration. Economist 143:40 Jl 11 '42

North America

North America and the war: a Canadian view. R. G. Trotter. 40p pa 10c Oxford '40

Norway

Norway and the war, September 1939-December 1940. M. Curtis, ed. 154p $3 Oxford '41
Norway, neutral and invaded. H. Koht. 253p $2.50 Macmillan '41
Norway, Norwegian shipping and the war. O. Lorentzen. 32p pa 10c Oxford '42
President gives sub-chaser to Norwegian navy. Comm & Fin Chr 156:1092 S 24 '42
With the Foreign legion at Narvik. P. O. Lapie. 138p $1.50 Transatlantic arts, 69-81 108th st, Forest Hills, N.Y. '41

Pacific ocean

America in the new Pacific. G. E. Taylor. 160p $1.75 Macmillan '42
Ramparts of the Pacific. H. Abend. 332p $3.50 Doubleday '42
Victory in the Pacific; how we must defeat Japan. A. Kiralfy. 283p $2.75 Day '42

Persia

Treaty with Iran. Economist 141:589-90 N 15 '41

Philippine Islands

Crisis in the Philippines. C. Porter. 156p bibliog(p154-6) $1.50 Knopf '42
Men on Bataan. J. Hersey. 313p $2.50 Knopf '42
President promises all aid to Philippines. Comm & Fin Chr 155:117 Ja 8 '42
Quezon in Washington voices faith in future. Comm & Fin Chr 155:2214 Je 11 '42

Poland

Flight to freedom. B. Padowicz. 257p $2.75 Duell, Sloan & Pearce, New York '42
It started in Poland. U. Dragomir. 249p 8s 6d Faber & Faber, London '41
Poland fights back. K. Pruszynski. 215p $2.50 Musson book co, 480 University av, Toronto, 2 '41
Polish invasion. K. Pruszyński. 112p pa 3s 6d Minerva pub. co, London '41
Polish profile. V. Sapieha. 319p $1 Garden City pub. co, Garden City, N.Y. '42
They fight for Poland. F. B. Czarnomski, ed. 284p $2.50 Norton '42

WORLD war, 1939—Poland—*Continued*
Two Septembers, 1939 and 1940; a diary of events. S. Baley, ed. 77p pa 1s G. Allen & Unwin, London '41
See also
Poland—German occupation

Portugal

Dr Salazar in doubt. Economist 143:9 Jl 4 '42
Neutral Iberia. Economist 142:243-4 F 21 '42; Correction. 142:285 F 28 '42
New ally. Economist 143:265 Ag 29 '42
Portugal and Brazil. Economist 143:303-4 S 5 '42

Ruhr valley

Ruhr and Rhine. map Economist 143:208 Ag 15 '42

Rumania

Balkan correspondent. D. Patmore. 319p $3 Harper '41
Discontent in Roumania. Economist 142:430 Mr 28 '42

Russia

All-out on the road to Smolensk. E. Caldwell. 230p $2.50 Duell, Sloan & Pearce, New York '42
Axis forces are still far from Caucasian fields. J. P. O'Donnell. il map Oil & Gas J 41:20-1 Je 4 '42
Europe. Russia and the future. G. D. H. Cole. 233p $2 Macmillan '42
He wanted to sleep in the Kremlin. G. Schacher. 261p $2 Reynal & Hitchcock, New York '42
Hull praises Russia's stand against Nazis. Comm & Fin Chr 156:21 Jl 2 '42
In Russia now. W. M. Citrine. 154p $1.25 R. Hale, London '42
Marsh beings; Russian morale. Economist 143:437-8 O 10 '42
More than oil at stake on Don. Business Week p32+ Ag 1 '42
Moscow war diary. A. Werth. 297p $3 Knopf '42
Only the stars are neutral. Q. Reynolds. 299p $2.50 Random house, New York '42
Round two in Russia. il map Fortune 25:80-3+ My '42
Russia and Europe. Economist 142:324-5 Mr 7 '42
Russia as a base for A.A.F. operations. J. Ward. map Aero Digest 41:82-3+ S '42
Russia at war. Economist 142:360, 398, 469-70, 506, 542, 651, 685, 829, 865, 895-6; 143:16, 49, 80, 112, 145, 209, 240, 273, 336, 391, 420, 487, 515 Mr 14-21, Ap 4-18, My 9-16, Je 13-Ag 1, 15-29, S 12, 26-O 3, 17-24 '42
Russia at war; twenty key questions and answers. V. M. Dean. 96p pa 25c Foreign policy assn, New York '42
Russia fights! M. MacAlpin. 72p pa 1s 6d Lawrence & Wishart, London '41
Russian newsreel; an eye-witness account of the Soviet Union at war. C. Haldane. 206p 10s 6d Secker and Warburg, London '42
Russians don't surrender. A. Poliakov. 191p $2.50 Dutton '42
Russia's fighting forces. S. N. Kournakoff. 258p pa 50c International publishers, 381 4th av, New York '42
Russia's task. Economist 142:670-2 My 16 '42
Shooting the Russian war. M. Bourke-White. 298p $2.75 Simon & Schuster '42
Siberian resources for Soviet warfare. G. B. Cressey. Science 95:264-6 Mr 13 '42
Soviet air force after a year of war. N. Denisov. il Aviation 41:90-2+ Ag '42
Soviet Asia; democracy's first line of defense. R. A. Davies and A. J. Steiger. 384p bibliog(p369-73) $3 Dial press, 432 4th av, New York '42
Soviets' answer. E. C. Ropes. For Comm W 6:4-5, 31 Ja 31 '42
Soviets expected it. A. L. Strong. 279p $2.50 Dial press, New York '41
Strategists eye Soviet's Far East. Business Week p60+ Jl 25 '42
U.S.S.R. our ally. D. N. Pritt. 64p 1s F. Muller, London '41
United efforts for victory. M. Litvinoff. Ann Am Acad 222:21-5 Jl '42
Voice of fighting Russia. L. Zacharoff, ed. 336p $3 Alliance book corp, New York '42
War of national liberation. J. Stalin. 61p bibliog(p59-61) 75c; pa 15c International publishers, 381 4th av, New York '42
We are guerillas; an account of the work of soviet guerillas behind the Nazi lines. 64p 6d Hutchinson & co, London '42
What the Russian battle means. maps Business Week p54 Jl 18 '42
With a Soviet unit through the Nazi lines. A. Polyakov. 40p pa 2s 6d Hutchinson & co, London '41

South Africa

South Africa's war effort. Engineer 172:452-3 D 26 '41

Spain

Neutral Iberia. Economist 142:243-4 F 21 '42; Correction. 142:285 F 28 '42

Sweden

Northern neutral. Economist 142:638 My 9 '42

Thailand

Thai minister protests. M. R. S. Pramoj. Fortune 26:8-9 O '42

Turkey

Lend-lease aid by U.S. to Turkey; Turkish neutrality. Comm & Fin Chr 154:1670 D 25 '41
Turkey under pressure. Economist 142:421-2 Mr 28 '42

United States

America. D. C. Coyle. 91p 25c Nat. home lib. foundation, 1213 St Matthews court, NW, Washington, D.C. '41
America and the Axis war. D. Smith. 424p $3 Macmillan '42
America at war. il Aviation 41:52-3, 190 Ja; 52-3+ Mr; 52-3+ Ap; 70-1+ My; 72-3+ Je; 88-9+ Jl; 88-9+ Ag; 92+ S; 98-9+ O '42
America at war; a geographical analysis. S. Van Valkenburg, ed. 296p $2.50 Prentice-Hall '42
America faces its future. S. Welles. For Comm W 5:3+ N 22 '41
America goes to war, Dec. 7th 1941. H. L. Hitchens, ed. 127p 50c Columbia educ. books, inc, 153 N. Michigan av, Chicago '41
America in a world at war. W. B. Brown, M. S. Stewart and W. E. Myer. 328p $1.80 Silver Burdett co, 45 E. 17th st, New York '42
America in the new Pacific. G. E. Taylor. 160p $1.75 Macmillan '42
America must decide. W. A. Hanley. Mech Eng 64:5-6 Ja '42
America organizes to win the war; a handbook on the American war effort. 395p $2 Harcourt '42
America speaks. P. Gibbs. 327p $3 Doubleday '42
American business goes to war. Business Week p15, 17 D 13 '41
American economic mobilization; a study in the mechanism of war. p427-536 pa 40c Harvard law review assn, Gannett house, Cambridge, Mass. '42
American unity and Asia. P. S. Buck. 140p $1.25 Day '42
Annual message to Congress describes our huge war tasks; text. Comm & Fin Chr 155:129+, 136-7 Ja 8 '42
Arms and the people. A. Stevens. 262p $2.75 Harper '42
Being an American in wartime. F. Kingdon. Ann Am Acad 222:1-7 Jl '42
Central organization for war greatly improved, but much remains to be done. E. Blair. Barron's 22:4 Mr 9 '42
December 7; the first thirty hours. 229p $2 Knopf '42
Democracy in action, a study in social science. S. Chipman. 126p bibliog(p120-3) $1.25 pa 50c Moore pub. co, Boston '42

WORLD war, 1939—United States—*Continued*

Diary of a Washington correspondent. D. Lawrence. 356p $2.75 H. C. Kinsey & co, 105 W. 40th st, New York '42

Economic measures to win war proposed by Nat'l committee to keep prices down. Comm & Fin Chr 155:950 Mr 5 '42

Engineer and the war. H. A. Winne. Gen Elec R 45:207-9 Ap '42

Europe versus America? Economist 142:70 Ja 17 '42

Examination of values. C. C. Davis. Trusts & Estates 75:22-3 Jl '42

First impact of war on the economy. Fed Res Bul 28:1-6 Ja '42

First war powers act, 1941; text. For Comm W 5:8-9 D 27 '41; Same. Fed Res Bul 28:13-15 Ja '42

Fortune survey. Fortune 25:97-100 F '42

Fortune survey; expecting long war, public ready for sacrifices; behind the President. Fortune 25:41-4 My '42

Fortune survey; people see hard times after a long but victorious war. Fortune 24:119-22 D '41

German, Italian declarations of war on U.S. Comm & Fin Chr 154:1559 D 18 '41

Heart of the problem. Fortune 25:50-1 F '42

Hitler's conquest of America. W. S. Schlamm. 30p pa 10c Oxford '41

How strong is America? N. Barber. 144p 6s G. G. Harrap & co, Toronto '42

How war came; an American white paper; from the fall of France to Pearl Harbor. F. Davis and E. K. Lindley. 342p $2.50 Simon & Schuster '42

How will you fare under our maximum war effort? A. B. Wells. il Mag of Wall St 69:590-2+ Mr 7 '42

I write from Washington. M. W. Childs. 331p $3 Harper '42

Impact of the war on America; six lectures by members of the faculty of Cornell university. 159p bibliog(p151-9) $2 Cornell univ. press, Ithaca, N.Y. '42

Logistics; the problem of delivering the goods. J. L. Walsh. Mech Eng 64:384-5 My '42

Losing the war; how this can best be done. R. A. Bard. Iron Age 150:148+ O 1 '42; Same cond. Comm & Fin Chr 156:1183 O 1 '42

Minority peoples in a Nation at war. J. P. Shalloo and D. Young, eds. Ann Am Acad 223:1-198 S '42

1942, the year to win or lose; report to executives. il maps Business Week p33-44, 46 Mr 14 '42

On the foreign front; Japan attacks; war declarations; military intelligence. Comm & Fin Chr 154:1461-2 D 11 '41

Organizing for total war. F. J. Brown, ed. Ann Am Acad 220:1-199 Mr '42

Power to War dept. to define military areas. F. D. Roosevelt. Comm & Fin Chr 155:951 Mr 5 '42

Prelude to victory. J. B. Reston. 235p $2 Knopf '42

President at world labor conference calls on capital and labor for sacrifices; text of address at I.L.O. conference. Comm & Fin Chr 154:1025+ N 13 '41

President calls for sacrifice and unity; address to Daughters of the American revolution. Comm & Fin Chr 155:1782 My 7 '42

President Roosevelt says U.S. will not lay down arms until world liberty is secure; text of address on anniversary of Bill of rights. Comm & Fin Chr 154:1689 D 27 '41

President Roosevelt sees long, hard war but voices confidence in final victory; text of address to the American people. Comm & Fin Chr 154:1457+ D 11 '41

President says civilization must be paid for in hard work, sorrow and blood. Comm & Fin Chr 155:1709 Ap 30 '42

President warns manpower legislation may be needed; calls for lowering draft age to 18; radio address to the Nation. Comm & Fin Chr 156:1353, 1358-9 O 15 '42

President's war message to Congress; joint resolution by Congress. For Comm W 5:3 D 13 '41

Program for American offense. M. C. Corns. Bankers M 144:384-8 My '42

Ramparts of the Pacific. H. Abend. 332p $3.50 Doubleday '42

Report of Secretary of commerce covering the war and defense activities of the Reconstruction finance corporation and its subsidiaries. For Comm W 6:6-9+ Mr 28 '42

Report to Mr Roosevelt in which he is asked to conduct his own purge while the initiative is still his. il Fortune 26:110-12+ S '42

Representative American speeches: 1941-1942. A. C. Baird, comp. Ref Shelf v 16, no 1:1-297 '42 ($1.25)

Road we are traveling, 1914-1942; guide lines to America's future. S. Chase. 106p $1 Twentieth century fund, New York '42

Roosevelt vows AEF Nation's full support. Comm & Fin Chr 155:1451 Ap 9 '42

School of the citizen soldier. R. A. Griffin, ed. 558p bibliog(p533-7) $3; civilian defense ed $2.40 Appleton-Century '42

Shortages and production. J. D. C. Weldon. il Mag of Wall St 69:417-19, 462 Ja 24 '42

Sixteen to one, a challenge to America's industry. J. H. Van Deventer. il Iron Age 149:90A-90D+ Mr 19 '42

Some critical problems in our war effort. A. A. Potter. Am Gas J 157:23-5 Ag '42

Steam from the melting pot; there is a replica of explosive Europe on U.S. ground; can we transform it into a working model of political warfare? il Fortune 26:74-6+ S '42

Sweeping implications of shift in U.S. war production policy. J. D. C. Weldon. il Mag of Wall St 70:216-18+ Je 13 '42

Technological high command. il Fortune 25:62-7+ Ap '42; Same. Inst Radio Eng Proc 30:309-18 Jl '42

This is your war. M. W. Childs. 200p bibliog (p196-200) $1.50 Little '42

Total war, American style. W. Chatfield-Taylor. For Comm W 6:6-7+ Mr 21 '42

Trials and errors. E. Janeway. Fortune 26:181-3 Ag '42

United nations will soon take offensive says President in address to Nation; text. Comm & Fin Chr 155:854-5 F 26 '42

United States at war. Nat City Bank p 1-3 Ja '42

United States at war. W. W. Aldrich. Bankers M 144:157-9 F '42

United States in a new world; series of reports on potential courses for democratic action. il Fortune 25:supp 1-20 My '42

U.S. war effort spreads. Business Week p54-5 Je 20 '42

United we stand! H. W. Baldwin. 304p bibliog(p294) $3 McGraw-Hill '41

Urges that U.S. keep aloof from war. C. A. Lindbergh. Comm & Fin Chr 154:1225 N 27 '41

Victory, and after. E. Browder. 256p $2 International publishers, 381 4th av, New York '42

Victory cannot be bought; organizing machines, materials, and manpower is crucial. chart Fortune 25:60-1+ F '42

Vows we shall press on to victory, post-war world. C. Hull. Comm & Fin Chr 156:377 Jl 30 '42

War: America's jobs; production, a just peace, post-war plans. W. A. Irwin. il Am Inst Banking Bul 24:10-11+ Ap '42

War and peace; debts and democracy; difficulties, possibilities, objectives. E. Schram. il Dun's R 50:5-9+ My '42

War and the electrical industry. C. H. Lang. Gen Elec R 45:381-3 Jl '42

We are still taking a hell of a beating; because the Chinese are, and have been for five years. Fortune 26:112+ Ag '42

What's right with the war effort. R. Drummond. Bankers M 145:259-60 S '42

Who's winning? il Fortune 26:138-40+ N '42

Winning war because we must. R. D. Patterson. Comm & Fin Chr 155:2127 Je 4 '42

Work; address to Chamber of commerce of the United States. J. H. Jones. For Comm W 7:8-9 My 9 '42

WORLD war, 1939—United States—*Continued*

World war II. Comm & Fin Chr 154:1553+ D 18 '41

See also

Industrial mobilization

United States—Defenses

Aid to Britain

Cost of food for Britain. Comm & Fin Chr 155:773 F 19 '42

No. 1 food buyer, SMA lease-lend food purchases. Business Week p24+ N 29 '41

U.S. aid to Great Britain. W. Churchill. Comm & Fin Chr 154:1218 N 27 '41

Aid to Russia

Fortune survey; U.S. and the U.S.S.R. Fortune 25:98 F '42

FDR orders speeding of war materials to Russia. Comm & Fin Chr 155:1449 Ap 9 '42

Pres. Roosevelt authorizes transfer of defense supplies to Soviet Russia under Lend-lease act. Comm & Fin Chr 154:1135 N 20 '41

Soviet Russia granted $1,000,000,000 credit by U.S. under Lend-lease act. Comm & Fin Chr 154:1038 N 13 '41

Bibliography

Official war publications; guide to state, federal, and Canadian publications. J. K. Wilcox. 212p pa $1.50 Bur. of public administration, Univ. of California, Berkeley '42

References on defense, war, and economic effects of war. G. A. West, comp. 28p U.S. Bur. of foreign and domestic commerce, Washington '41

Declarations of war

Congress declares war on three Balkan nations. Comm & Fin Chr 155:2212 Je 11 '42

Declarations of war. Fed Res Bul 28:11-12 Ja '42

Declarations of war between the United States and Bulgaria, Hungary and Rumania. Fed Res Bul 28:634 Jl '42

U.S. formally at war with Balkan nations. Comm & Fin Chr 156:275 Jl 23 '42

United States declares a state of war exists between it and Germany and Italy. Comm & Fin Chr 154:1681 D 27 '41

United States declares war on Japan; text of war measure. Comm & Fin Chr 154:1460 D 11 '41

Lend-lease operations

British use of lend-lease aid. E. R. Stettinius, jr. Comm & Fin Chr 156:815 S 3 '42

Economic and financial aid to other countries. Survey of Cur Business 22:53-4 F '42

Highlights of first year of lend-lease. Business Week p38 Mr 21 '42

Iran's trade position difficult, lend-lease aid timely. S. Goldberg. il For Comm W 7:9+ Je 13 '42

Lend-lease. Economist 142:854 Je 20 '42

Lend-lease; a study of its operations. Index 21 no 4:71-9 [D] '41

Lend-lease aid passes $1,000,000,000 mark. Comm & Fin Chr 154:1331 D 4 '41

Lend-lease aid to be given to Free French. Comm & Fin Chr 154:1247 N 27 '41

Lend-lease aid tripled. Comm & Fin Chr 155:957 Mr 5 '42

Lend-lease aid up sharply. Survey of Cur Business 21:9-10 D '41

Lend-lease for Czechs. Comm & Fin Chr 155:229 Ja 15 '42

Lend-lease funds now total $47 billion. Comm & Fin Chr 155:1034 Mr 12 '42

Lend-lease master pacts offered five more nations. Comm & Fin Chr 155:2203 Je 11 '42

Lend-lease proving value as instrument of war; with portraits of administrators. Steel 111:52, 54-6 N 9 '42

Lend-lease purchases of milk and milk products, eggs and egg products, dehydrated vegetables during first 18 months. For Comm W 9:27-8 N 7 '42

Lend-lease to date. diags Fortune 26:108-12+ O '42

Lend-leased to us; aid given U.S. by Britain and other allies. Business Week p50 S 12 '42

Maximum war output urged by President; sixth quarterly report on lend-lease operations. Comm & Fin Chr 156:993 S 17 '42

President makes third lend-lease report; aid put at $1,202,000,000 up to Nov. 30. Comm & Fin Chr 154:1672 D 25 '41

President Roosevelt reports first year's lend-lease aid totaled $2½ billion. Comm & Fin Chr 155:1152 Mr 19 '42

President Roosevelt reveals 15-months' lend-lease aid totals $4⅛ billions. Comm & Fin Chr 155:2311 Je 18 '42

Reciprocal lend-lease pacts signed. Comm & Fin Chr 156:894 S 10 '42

Soviet Russia granted $1,000,000,000 credit by U.S. under Lend-lease act. Comm & Fin Chr 154:1038 N 13 '41

Text of Lend-lease appropriation act. Comm & Fin Chr 154:1341 D 4 '41

U.S. and Belgium sign master lend-lease accord. Comm & Fin Chr 156:22 Jl 2 '42

U.S. and China sign master lend-lease pact. Comm & Fin Chr 155:2119 Je 4 '42

U.S. and Greece sign master lend-lease accord; U.S., Iceland sign pact. Comm & Fin Chr 156:296 Jl 23 '42

U.S., Brazil sign lend-lease compacts. Comm & Fin Chr 155:1064 Mr 12 '42

U.S.-British accord on lend-lease aid; text of Anglo-American pact. Comm & Fin Chr 155:953 Mr 5 '42; Same. For Comm W 6:3+ Mr 7 '42

U.S., Russia sign lend-lease accord. Comm & Fin Chr 155:2313 Je 18 '42

U.S., Yugoslavia sign master lend-lease pact. Comm & Fin Chr 156:469 Ag 6 '42

Yugoslavia

Free Yugoslavia calling. S. S. Petrović. 356p $3 Greystone press, New York '41

WORM gearing. See Gearing, Worm

WORSTED

See also

Woolen and worsted finishing

Woolen and worsted mills

Woolen and worsted spinning

Yarn

WORTHINGTON pump and machinery corporation

Favored war stocks. J. J. Hipple. il Mag of Wall St 69:440+ Ja 24 '42

WOUNDS

Cod liver oil ointment with sulfonamides in wounds and osteomyelitis. S. J. Wolferman and W. F. Adams. Ind Med 11:318-19 Jl '42

Detector of metal fragments in wounds. Science 95:sup8 Ja 30 '42

Seminar on physiological processes involved in wound healing. L. B. Arey. Franklin Inst J 233:506-10 My '42

Sulfa drugs and the treatment of wounds in Hawaii. J. Stafford. Science 95:sup8+ Ja 16 '42

Sulfathiazole locally in the treatment of acute traumatic wounds. K. C. Scheck and others. Ind Med 11:66-8 F '42

Tendon suturing. S. L. Koch. Ind Med 11:327-8 Jl '42

Treating puncture wounds. Nat Safety N 46:85 S '42

Treatment of infected wounds by H-1, a new germicidal extract from soil bacilli cultures. V. W. M. Wright. Franklin Inst J 233:188-98 F '42

See also

Trauma

WRAPPING machines

Lawtomatic roll wrapper. il Paper Tr J 113:63 N 27 '41

WRAPPING materials

All-America package competition; award to Kingan & co.; Tasti-square meat package. il Mod Packaging 15:146-7 Ap '42

All-America package competition; award to the Cudahy packing co.; meat loaves and cooked hams in transparent rubber hydrochloride casings. Mod Packaging 15:144-5+ Ap '42

Breather wraps for avocados. il Mod Packaging 15:56 Mr '42

WRAPPING materials—*Continued*
Fruit wrap; moisture-proof film preserves fruit. il Sci Am 166:81 F '42

Germany's new wrapping material, Zellglas. For Comm W 7:33 Je 6 '42

Improved packing method; use of Corroflex. P. Thompson. il Steel 110:94, 97 Mr 23 '42

What bakers are doing to meet their packaging problems; abstract. G. N. Graf. Mod Packaging 15:80 My '42

Wrappers tested for moisture loss. G. W. McBride. Food Ind 14:46-7 Ap '42

See also
Cellophane
Paper, Waxed
Paper board, Corrugated
Pliofilm
Wrapping paper

WRAPPING paper
Drying rate for kraft paper. A. E. Montgomery. Paper Ind 24:434+ Jl '42

Engineering approach to solution of packaging problems involving moisture vapor resistance. J. F. Halladay. bibliog Paper Tr J 115:79-88 O 1 '42

Kraft paper machine capacity characteristics; wrapping and bag paper. Paper Tr J 114:23-32 Ja 1 '42

Kraft paper output sets new high record and increases 16 per cent in year. E. R. Gay. Paper Tr J 114:53-4 F 19 '42

See also
Paper, Waxed

Prices

Agree to lower jobbers' prices of kraft wrapping paper. Paper Tr J 113:11 D 4 '41

OPA reduces prices of many kraft papers. Paper Tr J 115:7+ Jl 30 '42

OPA sets kraft paper prices in small lots. Paper Tr J 115:7+ O 15 '42

WRECKING
See also
Concrete—Wrecking

WRENCHES
Wrench clearances required for bolting-up pipe flanges. A. H. Korn. diags Product Eng 13:154-6 Mr '42

WRIGHT, Elizur, 1804-1885
Sketch. R. W. Sheehan. por Spectator (Life ed) 149:16-18+ Jl '42

WRIGHT, Frank Lloyd, 1869-
In the nature of materials; 1887-1941, the buildings of Frank Lloyd Wright. H. R. Hitchcock. 143p $5 Duell, Sloan and Pearce, New York '42

WRIGHT, Roy V. 1876-
Engineer in public affairs. R. Popiel. Mech Eng 64:161-2 F '42

WRIGHT aeronautical corporation
Consolidated income account, 1940 and 1941. Comm & Fin Chr 155:1848 My 11 '42

WRIGLEY, William, jr., company
Wrigley sells at 1933 depression level. H. Lawrence. Barron's 22:20 Ap 13 '42

WRIST watches. See Watches

WRISTLETS
Fabrics for military purposes. Textile World 92:127 F '42

WROUGHT iron
Progress in the structural elements of buildings. T. L. Condron. il diags W Soc E J 47:213-18 O '42

Sulphur prints of wrought iron rails. il Metal Prog 42:238-9 Ag '42

Wrought iron: its manufacture, characteristics and applications. J. Aston and E. B. Story. 2d ed 97p $1 A. M. Byers co, Clark bldg, Pittsburgh '41

WURTZ-FITTIG reaction
Chemistry of *o*-terphenyl (*o*-diphenylbenzene); the general reactivity, basal structure and rearrangements of the hydrocarbon. C. F. H. Allen and F. P. Pingert. bibliog Am Chem Soc J 64:1365-71 Je '42

WURTZ reaction
Condensations by sodium; the general theory of the Wurtz reaction; the initial step. A. A. Morton, J. B. Davidson and H. A. Newey. bibliog diags Am Chem Soc J 64:2240-2 O '42
Condensations by sodium; the general theory of the Wurtz reaction; the second phase. A. A. Morton, J. B. Davidson and B. L. Hakan. bibliog Am Chem Soc J 64:2242-7 O '42
Formation of cyclopropanes from monohalides; action of sodium alkyls on aliphatic chlorides; relation to the Wurtz reaction. F. C. Whitmore and H. D. Zook. bibliog Am Chem Soc J 64:1783-5 Ag '42
Products from the Wurtz reaction and the mechanism of their formation. A. Saffer and T. W. Davis. bibliog Am Chem Soc J 64:2039-43 S '42

WYNNE, B. J.
Runs two companies. por East Underw 43:6 Mr 13 '42

WYOMING
See also
Geology—Wyoming

WYSE, Arthur Bambridge, 1909-1942
Nebular spectrum; evidence for the uniformity of composition of matter in space; work of A. B. Wyse. H. N. Russell. il Sci Am 167:114-15 S '42

X

X RAY apparatus
Calculation of the error due to the absence of guard electrodes in X-ray ionization chambers. N. L. Walbridge. R Sci Instr 12:546-8 N '41
Electrical developments of 1941; X-ray equipment. G. Bartlett. il Gen Elec R 45:54-5 Ja '42
General Electric holds million-volt industrial X-ray symposium. il Blast F & Steel Pl 29:[1108-11] N '41
High intensity X-ray monochromator; rock salt crystals. P. Kirkpatrick. bibliog diag R Sci Instr 12:552-4 N '41
Induction accelerator at University of Illinois. Science 95:12 Ja 2 '42
Million-volt industrial X-ray unit. il diag Elec Eng 60:571-3 D '41
Million-volt X-ray equipment speeds war production. il Marine Eng 47:138+ Jl '42
Million-volt X-ray units. P. Morris. il Elec R (Lond) 130:200-1 F 13 '42
Million-volt X rays. il diag Mech Eng 63:906-8 D '41
Million-volt X-rays. il Metals & Alloys 14:883-4 D '41
Name of the Kerst X-ray machine; announced as rheotron. Science 95:sup8 Ja 23 '42
New radiographic unit aids industry; million volt X-ray unit. il diags Electronics 14:36-7+ N '41
1,000,000-volt X-ray units; abstract. E. E. Charlton and W. F. Westendorp. Science 96:sup10 Jl 3 '42
Portable million-volt X-ray outfit for industrial laboratories. E. E. Charlton and W. F. Westendorp. il diags Gen Elec R 44:654-61 D '41
Portable X-ray unit speeds field maintenance. il Aviation 41:210 S '42
Precision determination of h/e by means of the short wave-length limit of the continuous X-ray spectrum at 20 kv. W. K. H. Panofsky, A. E. S. Green and J. W. M. DuMond. bibliog diags Phys R 62:214-28 S 1 '42
Rheotron, a new electronic tool. il Electronics 15:22-3 F '42; Steel 110:78 Je 15 '42
20-million electron-volt betatron or induction accelerator. D. W. Kerst. il diags R Sci Instr 13:387-94 S '42
Twenty million volt rheotron. il Power Pl Eng 46:80-1 Ag '42

X RAY apparatus—*Continued*

X-rays from radio tubes. H. C. Brinker. Science 95:634 Je 19 '42

See also

Electron accelerator
Metals—X ray inspection
X ray tubes

Safety measures

X-ray protection. M. B. Evans, jr. il Ind Med 11:265-7 Je '42

X RAY films

Mercury sensitization and the optical and X-ray latent images. A. May. bibliog Opt Soc Am J 32:219-23 Ap '42

X RAY inspection. See Metals—X ray inspection; Welding—X ray inspection

X RAY microscope

X-ray microscope. Science 95:sup10 Je 5 '42

X RAY satellites. See Spectrum, X ray—Satellites

X RAY spectrum. See Spectrum, X ray

X RAY tubes

Grid controlled X-ray diffraction tube. A. Eisenstein. il diags R Sci Instr 13:208-12 My '42; Abstract. Electronics 15:104+ N '42

Improved X-ray tube for diffraction analysis. R. R. Machlett. il diags J Ap Phys 13:398-401 Je '42

Lecture demonstration of X-rays and cathode rays. C. L. Christ. il J Chem Educ 19:548 N '42

Malleable beryllium; research to secure thin vacuum-tight beryllium for windows of X-ray tubes. G. E. Claussen and J. W. Skehan. bibliog il diag Metals & Alloys 15:599-603 Ap '42

Response by Dr William D. Coolidge in accepting the Duddell medal at the meeting of the American physical society, May 1, 1942. J Ap Phys 13:478-80 Ag '42

Transient temperatures in the anode of an X-ray tube. F. R. Abbott. diags J Ap Phys 13:384-9 Je '42

X-ray tubes for spectroscopic purposes; abstract. M. Siegbahn. Chem & Met Eng 49:168 Ag '42

See also

Cathode ray tubes

X RAYS

Average energy required to produce an ion pair in xenon with 0.16A X-rays. N. L. Walbridge. bibliog Phys R 60:852-6 D 15 '41

Density of sodium chloride; the atomic weight of fluorine by combination of crystal density and X-ray data. H. J. Johnston and D. A. Hutchison. Phys R 62:32-6 Jl 1 '42

Investigation of the X-radiation from Te^{121} (125 days) by critical absorption and fluorescence. R. D. O'Neal and G. Scharff-Goldhaber. Phys R 62:83-4 Jl 1 '42

X-rays and the stoicheiometry of the proteins, with special reference to the structure of the keratin-myosin group. W. T. Astbury. bibliog pl diags Chem Soc J p337-47 My '42

See also

Auger effect
Crystallography—X ray studies
Metals—X ray inspection
Radiography
Spectrum, X ray
Welding—X ray inspection

Absorption

K-absorption edges of metal ions in aqueous solution. W. W. Beeman and J. A. Bearden. bibliog Phys R 61:455-8 Ap 1 '42

X-ray absorption structure as a tool in physics and chemistry. S. T. Stephenson. bibliog J Ap Phys 13:142-6 Mr '42

See also

Spectrum, X ray

Diffraction

Chemical analysis by X-ray diffraction. M. L. Fuller. il Iron Age 149:65 Ap 9 '42

Connection between the kinematic and dynamical theories of X-ray diffraction. H. Ekstein. Phys R 62:255-61 S '42

Diffraction of X-rays by argon in the liquid, vapor, and critical regions. A. Eisenstein and N. S. Gingrich. bibliog diags Phys R 62:261-70 S 1 '42

Diffraction of X-rays by liquid benzene-cyclohexane mixtures. A. Eisenstein and N. S. Gingrich. diags J Chem Phys 10:195-9 Ap '42

Diffraction of X-rays by liquid oxygen. P. C. Sharrah and N. S. Gingrich. bibliog diag J Chem Phys 10:504-7 Ag '42

Grid controlled X-ray diffraction tube. A. Eisenstein. il diags R Sci Instr 13:208-12 My '42; Abstract. Electronics 15:104+ N '42

Improved X-ray tube for diffraction analysis. R. R. Machlett. il diags J Ap Phys 13:398-401 Je '42

Interpretation of X-ray diffraction diagrams and evidence of mosaic structures. N. P. Goss. il Am Soc for Metals Trans 29:987-92; Discussion. 992-1001 D '41

New cassette for X-ray diffraction patterns. S. T. Gross. il diags R Sci Instr 13:81-2 F '42

Rapid X-ray diffraction method. A. T. McCord. bibliog il diags Ind & Eng Chem Anal ed 14:793-6 O 15 '42

Significance of the "V" X-ray diffraction patterns of starches. R. S. Bear. bibliog il Am Chem Soc J 64:1388-92 Je '42

Some applications of X-ray diffraction methods to industrial chemistry; abstract. C. W. Bunn. Chem Age (Lond) 46:221 Ap 25 '42

Some photometric instruments used in X-ray diffraction and spectrographic methods of analysis. J. W. Ballard, H. I. Oshry and H. H. Schrenk. pls U S Bur Mines Rep of Invest 3638:1-13 '42

Studies of lead oxides; the effect of grinding on the X-ray diffraction patterns of mixtures containing lead oxides. G. L. Clark and S. F. Kern. Am Chem Soc J 64:1637-41 Jl '42

Tabulated diffraction data for cubic isomorphs. L. K. Frevel. bibliog Ind & Eng Chem Anal ed 14:687-93 S 15 '42

X-ray analysis of protein denaturation. M. Spiegel-Adolf and G. C. Henny. bibliog il J Phys Chem 45:931-7; 46:581-6 Je '41, My '42

X-ray diffraction and physical properties of potassium borate glasses. R. L. Green. bibliog Am Cer Soc J 25:83-9 F 1 '42

X-ray diffraction as a method of identifying metal alloys. L. L. Wyman. il diags Steel 109:70-2 D 22; 62-3+ D 29 '41

X-ray diffraction studies on heavy-metal iron-cyanides. H. B. Weiser, W. O. Milligan and J. B. Bates. bibliog diags J Phys Chem 46:99-111 Ja '42

X-ray study of carbon black. J. Biscoe and B. E. Warren. bibliog il J Ap Phys 13:364-71 Je '42

Industrial applications

Duplicating templates by the X-ray process; sensitized film over fluorescent lacquer base used in North American Aviation photoreproduction system. il Automotive & Aviation Ind 86:44-5+ My 15 '42

Industrial radiography; improvements in technique employed in electrical manufacturing. il Elec R (Lond) 131:393-6 S 25 '42

Metallurgical and industrial radiology. K. S. Low. 88p $3 Pitman '40

New X-ray meter aids pole inspection. M. Zucker, R. Stoker and L. H. Sampson. il diags Elec W 118:1090-2 O 3 '42

North American Aviation X-ray photo-template duplicating system. J Aeronautical Sci Aeronautical R Sec 9:41 N '41

Rubber heels inspected for perfection with X-rays. il Sci Am 166:250-1 My '42

Use of X-rays in the rubber industry. R. T. Foreman. il Rubber Age 50:355-6 F '42

X-ray diagnosis. R. T. Foreman. il Mod Plastics 19:46-7+ Mr '42

X RAYS—Industrial applications—*Continued*

X-ray fingerprints scale deposits. C. E. Imhoff and L. A. Burkhardt. il Power 86:10-12 Ja '42

See also

Metals—X ray inspection
Radiography
Welding—X ray inspection
X rays—Diffraction

Measurement

Comparison between a Geiger-Mueller counter, a secondary electron multiplier tube, and photographic film for detecting weak X-rays. A. Eisenstein and N. S. Gingrich. bibliog R Sci Instr 12:582-6 D '41

Intensities of monochromatic continuous X-rays from atomic targets of nickel. K. Harworth and P. Kirkpatrick. bibliog diag Phys R 62:334-9 O 1 '42

Portable indicating X-ray dosimeter. R. P. Krebs and H. Kersten. il diag R Sci Instr 13:332-4 Ag '42

Ross filter foils by evaporation. J. C. Clark and R. H. Esling. il R Sci Instr 13:383-6 S '42

Vacuum tube intensity meter. R. B. Taft. il diag R Sci Instr 13:234-5 My '42

Reflection

Diffuse reflection of X-rays by anisotropic and isotropic solids. H. A. Jahn and K. Lonsdale. bibliog Phys R 61:375-6 Mr 1 '42

Scattering

Scattering of polarized X-rays by ferromagnetic substances. E. Rodgers. Phys R 61:35-8 Ja 1 '42

Some improvements in practical Fourier analysis and their application to X-ray scattering from liquids. G. C. Danielson and C. Lanczos. Franklin Inst J 233:365-80, 435-52 Ap-My '42

Temperature diffuse scattering of X-rays by potassium chloride and potassium bromide crystals. J. H. Hall. bibliog Phys R 61:158-67 F 1 '42

Theory of temperature diffuse scattering. M. Born. bibliog Phys R 61:377-8 Mr 1 '42

Theory of temperature diffuse scattering. W. H. Zachariasen. Phys R 60:691 N 1 '41

Thermal scattering of X-rays in crystals. J. Weigle and C. S. Smith. diags Phys R 61:23-34 Ja 1 '42

Therapeutic use

Roentgen treatment of diseases of the nervous system. C. G. Dyke and L. M. Davidoff. 198p bibliog(p189-94) $3.25 Lea & Febiger, 600 S. Washington sq, Philadelphia '42

Roentgen treatment of infections. J. F. Kelly and D. A. Dowell. 432p $6 Year book publishers, Chicago '42

Treatment of cancer with X-rays; abstract. R. Dresser. Science 96:sup8 S 25 '42

X RAYS in dentistry

X-rays in dentistry. 9th ed 60p pa gratis Medical division, Eastman kodak co, 343 State st, Rochester, N.Y. '41

XANTHATES

Fluidity of triton F and xanthate solutions as a measure of cellulose degradation. R. T. Mease and L. F. Gleysteen. J Research Nat Bur Stand 27:543-9 D '41

Mechanism of elimination reactions; the decomposition of quaternary ammonium bases and of xanthate esters. P. G. Stevens and J. H. Richmond. bibliog Am Chem Soc J 63:3132-6 N '41

XANTHINE

Constitution of purine nucleosides; a new synthesis of xanthine and attempted syntheses of xanthine glucosides from glyoxalines. W. E. Allsebrook, J. M. Gulland and L. F. Story. Chem Soc J p232-6 Ap '42

XENON

Average energy required to produce an ion pair in xenon with 0.16A X-rays. N. L. Walbridge. bibliog Phys R 60:852-6 D 15 '41

XYLENE

Autoxidisability of the alkyl groups in xylene. E. H. Farmer and E. S. Narracott. Chem Soc J p185 F '42

Dipole moments in the vapor state and resonance effects in some substituted benzenes. E. C. Hurdis and C. P. Smyth. Am Chem Soc J 64:2212-16 S '42

Mechanical properties of substances of high molecular weight; rigidities of the system polystyrene-xylene and their dependence upon temperature and frequency. J. D. Ferry. bibliog Am Chem Soc J 64:1323-9 Je '42

Mechanical properties of substances of high molecular weight; viscosities of the system polystyrene-xylene. J. D. Ferry. bibliog Am Chem Soc J 64:1330-6 Je '42

Orientation effects in the alkylation of *m*-xylene by various procedures and reagents. D. Nightingale, H. D. Radford and O. G. Shanholtzer. bibliog Am Chem Soc J 64:1662-5 Jl '42

XYLITOL

Crystalline xylitol. M. L. Wolfrom and E. J. Kohn. Am Chem Soc J 64:1739 Jl '42

XYLOQUINONE

Reaction between quinones and enolates; dibromo-*o*-xyloquinone and sodium malonic ester. L. I. Smith and F. L. Austin. bibliog Am Chem Soc J 64:528-33 Mr '42

Y

YACHTS and yachting

Yachtsmen give pleasure craft to government for military service. Marine Eng 47:134+ Mr '42

See also

Motor boats

YAKIMA valley, Washington

Migration and settlement in the Yakima valley. Monthly Labor R 54:405-6 F '42

YALE and Towne manufacturing company

Annual report. Comm & Fin Chr 155:1224 Mr 23 '42

YALE laboratories of primate biology, Orange Park, Florida. See Yerkes laboratories of primate biology

YALE university

Report of the treasurer. Science 95:319 Mr 27 '42

School of medicine

Graduate course on industrial health and medicine in war time. Science 96:291 S 25 '42

YARD lighting. See Factories—Yards—Lighting

YARN

Effect of yarn elongations on parachute fabric strength. W. J. Hamburger. diag Rayon 23:151-3, 291-2, 332-4 Mr, My-Je '42

Irregularities in rovings and yarns. J. G. Martindale. il diags Textile Inst J 33:P9-22 F '42

Variation of humidity is quickly apparent in yarn quality. Rayon 23:116+ F '42

See also

Cotton yarn
Rayon yarn
Woolen and worsted yarn

Mixtures

Chemical analysis of fibre mixtures. F. Howlett, M. J. Morley and A. R. Urquhart. bibliog(54 references) Textile Inst J 33:T75-104 Je '42

Strength

Theoretical approach to the problem of yarn strength. R. R. Sullivan. bibliog J Ap Phys 13:157-67 Mr '42

Tables, calculations, etc.

Commercial comparative yarn table and equivalents. Rayon 23:458 Ag '42

YARN—Tables, calculations, etc—*Continued*

Percentages of component yarns in novelties. Textile World 92:124 Jl '42

Testing

Effect of rate of loading on tensile strength of cord and yarn. M. Castricum and A. N. Benson. bibliog Am Soc T M Proc 41:1214-16 '42

Technique for spinning samples of yarn from small quantities of jute fibre. C. R. Nodder and A. S. Gillies. il Textile Inst J 33:T1-16 Ja '42

See also

Rayon yarn—Testing

YARNALL, D. Robert, 1878-

D. Robert Yarnall receives Hoover medal for 1941. Power 85:934b+ D '41; Same cond. Min & Met 22:601 D '41

YAZOO river, Mississippi

Flood control for the Yazoo valley. G. A. Morris. il maps Civil Eng 12:243-6 My '42

YEARBOOKS (statistical, historical, etc.)

Book of knowledge annual, 1942. E. V. McLoughlin, ed. 462p $8.50-$10 Grolier soc, 2 W. 45th st, New York '41

New international year book; a compendium of the world's progress for the year 1941. C. E. Funk, R. S. Kain and M. Harmon, eds. 766p $6.25 Funk & Wagnalls co, New York '42

YEASTS

Constitution of yeast mannan. W. N. Haworth, R. L. Heath and S. Peat. Chem Soc J p833-42 D '41

Constitution of yeast ribonucleic acid; synthesis of yeast adenylic acid. G. R. Barker and J. M. Gulland. Chem Soc J p231-2 Ap '42

Determination of melibiase activity. P. P. Gray and H. Rothchild. bibliog Ind & Eng Chem Anal ed 13:902-5 D 15 '41

Determination of vitamin B_1 by yeast fermentation method; improvements related to use of sulfite cleavage and a new fermentometer. A. S. Schultz, L. Atkin and C. N. Frey. bibliog il Ind & Eng Chem Anal ed 14:35-9 Ja 15 '42

Effect of yeast on the stabilization of sewage and sludge digestion. H. Heukelekian. Pub Works 73:17-18 S '42

Enrichment of white bread with vitamin B complex through the addition of debitterized brewers' yeast. R. Schwarz and others. bibliog Ind & Eng Chem 34:480-3 Ap '42

Feed yeast and industrial alcohol from citrus-waste press juice. A. J. Nolte, H. W. von Loesecke and G. N. Pulley. il Ind & Eng Chem 34:670-3 Je '42

Industrial uses of chemicals. Oil Paint & Drug Rep 141:57 Ap 13 '42

Microbiologic assay of natural pantothenic acid in yeast and liver; influence of clarase digestion. E. Willerton and H. W. Cromwell. bibliog Ind & Eng Chem Anal ed 14:603-4 Jl 15 '42

Microbiology and baking. A. J. Amos. bibliog Chem & Ind 61:117-19 Mr 7 '42

Sporulation stock medium for yeasts and other fungi. E. M. Mrak, H. J. Phaff and H. C. Douglas. Science 96:432 N 6 '42

Sterile culture of paramecium multimicronucleata. W. H. Johnson and E. G. S. Baker. bibliog Science 95:333-4 Mr 27 '42

Studies on inhibition of fermentation by yeast maceration juice. R. Marcuse. Science 94:466-7 N 14 '41

Synthesis of vitamin B_1 by yeast. J. M. Van Lanen and others. bibliog Ind & Eng Chem 34:1244-7 O '42

Uses of microörganisms in the production of chemical products. C. G. Dunn. il J Chem Educ 19:387-92 Ag '42

Virus inactivator from yeast. W. N. Takahashi. Science 95:586-7 Je 5 '42

Vitamin synthesis by a yeast converted from a heterotrophic to an autotrophic habit. L. H. Leonian and V. G. Lilly. Science 95:658 Je 26 '42

Analysis

Determination of traces of copper in wort, beer, and yeast. I. Stone. Ind & Eng Chem Anal ed 14:479-81 Je 15 '42

Manufacture

Continuous aerobic process for distiller's yeast; engineering and design factors. E. D. Unger and others. il diags Ind & Eng Chem 34:1402-5 N '42

Plant design in microbiological processes. S. A. Gregory. bibliog Inst Chem Eng Trans 18:132-3 '40

YELLOW

Persian berry extract, its origin and applications in textile printing and dyeing. J. McCartney. Textile Col 63:449-50+, 605-7 Ag, N '41

YELLOW AB

Studies on solubilization. R. C. Merrill, jr. and J. W. McBain. bibliog J Phys Chem 46:10-19 Ja '42

YELLOW fever

Anaphylaxis in guinea pigs following sensitization with chick-embryo yellow fever vaccine and normal chick embryos. T. O. Berge and M. V. Hargett. bibliog Pub Health Rep 57:652-67 My 1 '42

Jaundice and yellow fever vaccinations in the army. J. Stafford. Science 96:sup12+ Ag 7 '42

U.S. leadership in health protection endangered by neglect of yellow fever mosquito eradication; abstract. T. Parran. Science 96:sup10 N 6 '42

YERBA mate. See Maté

YERKES laboratories of primate biology, Orange

Studies of infant chimpanzees. H. W. Nissen. Science 95:159-61 F 13 '42

YORK, Pennsylvania

Industries

Conversion of Forry Laucks from safes and vaults to guns and shells. il Fortune 25:88-91, 153-4+ Ap '42

YORK safe and lock company

Conversion of Forry Laucks from safes and vaults to guns and shells. il Fortune 25:88-91, 153-4+ Ap '42

Subcontracting will win the war. il Steel 110:46-9 My 11 '42

YOUNG, Clarence Richard, 1879-

Sketch. por Roads & Bridges 80:36+ Ja '42

YOUNG people. See Youth

YOUNGSTOWN sheet and tube company

Annual report. Comm & Fin Chr 155:1320 Mr 30 '42

Another look at your company. il Mag of Wall St 70:75 My 2 '42

YOUTH

Men of tomorrow; nine leaders discuss the problems of American youth. T. H. Johnson, ed. 247p $2 Putnam '42

President says cause of United nations is cause of youth itself; address at International student assembly. Comm & Fin Chr 156:892 S 10 '42

Socio-economic and employment status of urban youth in the United States, 1935-36. B. D. Karpinos. (Pub. health bul. 273) 58p bibliog(p57-8) U.S. Public health service, Washington; pa 15c Supt. of doc. '41

Youth and service. Economist 141:783 D 27 '41

Youth and the future. 296p $2.50 Am. council on education, Washington, D.C. '42

See also

Civilian conservation corps

High school students

Junior achievement movement

National youth administration

YPSILANTI, Michigan

Ypsilanti bids for war work. R. G. French. il Am Business 12:9-11, 40 F '42

YTTERBIUM

Electrolysis of rare earth acetates and the separation of europium as amalgam from other rare earths. H. N. McCoy. bibliog Am Chem Soc J 63:3432-3 D '41

Potential of the ytterbic-ytterbous ion electrode. H. A. Laitinen. bibliog Am Chem Soc J 64:1133-5 My '42

YTTERBIUM—*Continued*
Separation of ytterbium from accompanying rare earths by means of its amalgam. H. N. McCoy and R. P. Hammond. Am Chem Soc J 64:1009 Ap '42

Analysis

Europium and ytterbium in rare earth mixtures; polarographic determination. H. A. Laitinen and W. A. Taebel. Ind & Eng Chem Anal ed 13:825-9 N 15 '41

YTTRIUM
Isolation of radioactive yttrium and some of its properties in minute concentrations. J. D. Kurbatov and M. H. Kurbatov. bibliog J Phys Chem 46:441-57 Ap '42

YUMA, Arizona
Climate in Yuma. J. H. Gordon. Heat & Ven 39:49 Jl '42

Streets

Bottlenecks eliminated on a dangerous piece of road at Yuma, Arizona. J. C. Coyle. il Pub Works 73:25-6 S '42

Z

ZACH, Philip, 1897-
Gallery; Harvard in the Dust Bowl. S. Jones. por Adv & Sell 35:32+ S '42

ZEAXANTHOL
Studies on the carotenoids; distribution of pure pigments between immiscible solvents. J. W. White, jr. and F. P. Zscheile. bibliog Am Chem Soc J 64:1440-3 Je '42

ZEEMAN effect
First spark spectrum of neodymium; preliminary classification and Zeeman effect data. W. E. Albertson, G. R. Harrison and J. R. McNally, jr. bibliog Phys R 61:167-74 F 1 '42
First spark spectrum of thorium; classification and Zeeman effect data of Th II. J. R. McNally, jr, G. R. Harrison and H. B. Park. Opt Soc Am J 32:334-47 Je '42
Zeeman effect data and preliminary classification of the spark spectrum of praseodymium—Pr II. N. Rosen, G. R. Harrison and J. R. McNally, jr. bibliog il Phys R 60:722-30 N 15 '41
Zeeman effects in the arc spectrum of nickel. C. H. Lindsley. bibliog Opt Soc Am J 32: 94-7 F '42
Zeeman effects in the spectrum of singly ionized nickel. C. H. Lindsley. Opt Soc Am J 32:387-9 Jl '42

ZEIN
Drying heat-sensitive substances; a modified flash-drying system. W. C. Rongsted, J. B. Gottfried and L. C. Swallen. flow sheet Ind & Eng Chem 33:1544-6 D '41
New adhesive for paper clay coatings; Mazein. C. W. Stewart. Pulp & Pa of Can 43:333 Mr '42; Same. Chem Age (Lond) 46:261 My 23 '42

ZENITH radio corporation
Low-priced stocks for large percentage gains; with high and low figures, 1929-1942. Mag of Wall St 70:595 S 19 '42

ZENNECK field. See Radio waves

ZEOLITES
Concentration of dilute solutions of electrolytes by base-exchange materials; zeolites for recovery of metal ions. R. H. Beaton and C. C. Furnas. bibliog il Ind & Eng Chem 33:1500-13 D '41
Disposal of acid fumes in wet assaying. E. J. Poth and G. A. Elliott. diags Ind & Eng Chem Anal ed 13:910 D 15 '41
Elgin water softener. Marine Eng 47:278 O '42
Handbook of feedwater treatment; zeolite, base-exchange and hydrogen-exchange. diags Power 85:872-3 D '41
Iron removal in western Pennsylvania. L. S. Morgan and C. H. Young. Am Water Works Assn J 33:1929-44 N '41
Reconditioning zeolites which have lost exchange capacity due to contamination. A. Klein. Soc Chem Ind J 60:262-3 O '41
Reduction of mineral content in water with organic zeolites. R. F. Goudey. bibliog il Am Soc C E Proc 68:225-36; Discussion. 265-8, 625-6, 841-4 F, Ap-My '42
Softener capacity increased; Elgin zeolite water softener manifold system. diags Power Pl Eng 46:118 N '42
Some water treatment experiences at Sanford, Maine. H. L. Clark. il Water Works & Sewerage 88:500-2 N '41; Same. N E Water Works Assn J 56:59-64 Mr '42

Testing

Accelerated tests for determination of attrition loss of carbonaceous zeolites. S. J. Broderick and E. S. Hertzog. il Am Water Works Assn J 34:94-106 Ja '42

ZEREWITINOFF determination. See Alcohols—Analysis

ZIMMERMAN, Harry Johnson, 1906-
Million-miler; the story of an air pilot. J. R. Tunis. 253p $2.50 J. Messner, New York '42

ZINC
Cathodic protection of aluminum equipment. R. B. Mears and H. J. Fahrney. bibliog diags Am Inst Chem Eng Trans 37:911-23; Discussion. 923-5 D '41
Electrolytic behavior of ferrous and nonferrous metals in soil-corrosion circuits. I. A. Denison. bibliog Electrochem Soc Trans 81 (preprint 17):233-50 Ap '42
K-absorption edges of metal ions in aqueous solution. W. W. Beeman and J. A. Bearden. bibliog Phys R 61:455-8 Ap 1 '42
Practical application of zinc anode protection to an 18-in. pipe line. C. L. Brockschmidt. diag Pet Eng 13:74-6, 78+ F '42
Self-diffusion of zinc. P. H. Miller, jr. and F. R. Banks. bibliog diags Phys R 61:648-52 My 1 '42
Spectrographic studies of coprecipitation; fourth-period elements with barium sulfate, and copper and zinc with lead sulfate. L. Waldbauer, F. W. Rolf and H. A. Frediani. bibliog Ind & Eng Chem Anal ed 13:888-9 D 15 '41
Study of the embrittling effect of zinc upon stainless steel; effect of tobin bronze. O. H. Henry and R. W. Schroeder. il diag Welding J 21:287-90 Je '42
Thermal expansion of single and optically mosaic zinc crystals. W. P. Staker. bibliog diags Phys R 61:653-7 My 1 '42
Zinc losses in hot-dip galvanizing. W. G. Imhoff. il Metal Finishing 40:587-90 N '42
Zinc photosensitized reactions of ethylene. H. Habeeb, D. J. LeRoy and E. W. R. Steacie. bibliog il J Chem Phys 10:261-7 My '42
Zinc use curbed by WPB order. Oil Paint & Drug Rep 142:4+ Ag 3 '42
See also
Galvanizing
also American zinc institute

Analysis

Determination by the dropping-mercury-electrode procedure of lead, cadmium, and zinc in samples collected in industrial-hygiene studies. F. L. Feicht, H. H. Schrenk and C. E. Brown. bibliog pls U S Bur Mines Rep of Invest 3639:1-20 '42
Determination of zinc in rubber compounds; a new internal indicator method. W. P. Tyler. bibliog Ind & Eng Chem Anal ed 14:114-18 F 15 '42
Separation of copper, lead, and zinc with salicylaldoxime. L. P. Biefeld and W. B. Ligett. bibliog Ind & Eng Chem Anal ed 14:359-61 Ap 15 '42

Isotopes

Nuclear excitations resulting from radioactive decay. E. H. Plesset. bibliog il Phys R 62:181-6 S 1 '42

Prices

Formal ceiling on zinc. Iron Age 149:92 F 5 '42

ZINC—Prices—*Continued*

Premium price plan for copper, lead, and zinc. Eng & Min J 143:63 Mr '42

Price schedule; rolled zinc. Iron Age 149:123 Ja 1 '42

Price schedule; secondary, scrap zinc. Iron Age 149:126 Ja 1 '42

Rules established for payment for over-quota nonferrous production. Steel 110:44 F 16 '42

Zinc at New York, monthly, 1929-1941; tabulation. Iron Age 149:186 Ja 1 '42

ZINC, Powdered

See also

Zinc dust

ZINC alloys

Drawing dies for airframe stampings; Kirksite A die material performs efficiently. G. A. Brewer. il Iron Age 149:37-41 My 28 '42

Effects of minor alloying elements in aluminum casting alloys. W. Bonsack. Iron Age 150:68-72, 72A-72D, 73-4 Ag 13 '42

Fatigue testing of zinc-base alloy die castings; abstracts. E. H. Kelton. Metals & Alloys 16:94 Jl '42; Chem & Met Eng 49:208-9 S '42

Finishing of zinc-base alloy die castings. E. A. Anderson. Am Soc T M Proc 41:949-52 '41

Forming properties of zinc-base extrusion alloys; abstract. A. Burkhardt. Metals & Alloys 15:496+ Mr '42

From print to part in eight hours; development of Kirksite dies for punch press work; Vega airplane company. J. Harris. il Aviation 41:70-1+ Ja '42

Fueling for zinc slush and permanent mold casting; abstract. Metals & Alloys 15:138 Ja '42

Link trainer saves with die-castings. il diags Product Eng 13:576-8 O '42

Milestone in dies; Kirksite "A" blazes new trail in casting dies for the aircraft plants. Business Week p76+ N 7 '42

Navy Tombasil; a new silicon bronze casting alloy. H. L. Edsall. il Iron Age 150:54-9 Jl 30 '42

Need for substitutes spotlights developments in Germany. Steel 109:68 D 29 '41

Rolled and cast Kirksite in airplane plants; forming and blanking dies. W. W. Broughton. il diags Mach 49:139-47 O '42

Vega applies cast dies; Kirksite punchpress dies for airplane parts. J. A. Harris. il Am Mach 86:15-19 Ja 8 '42

Zinc alloys for molds. J. Delmonte. il Mod Plastics 19:70+ My '42

Zinc base die casting alloys with lowered aluminum. B. E. Sandell. Metal Prog 40:903+ D '41

See also

Brass

ZINC chloride

Coconut shell charcoal; effect of concentration of zinc chloride and of hydrochloric acid on activity. L. Ts'ai and K. Chuang. Ind & Eng Chem 34:812-13 Jl '42

Decomposition of zinc chloride double salts of diazonium compounds by alcohols and phenol. H. H. Hodgson and C. K. Foster. Chem Soc J p581-3 S '42

ZINC chromate

Effect of zinc chromate paint on welding. C. T. Gayley. il Welding J 21:sup434-9 S '42

Zinc chromate pigments; abstract. A. Behr. Paint Oil & Chem R 103:9 D 4 '41

Zinc tetroxy chromate; a rust-inhibitive primer pigment. W. W. Kittelberger. bibliog il Ind & Eng Chem 34:363-72 Mr '42

ZINC coating

Porcelain enamel as a protective coating for hot-water tanks. D. R. Goetchius. bibliog Am Cer Soc J 25:164-8 Mr 15 '42

Soil-corrosion studies, 1939; coatings for the protection of metals underground. K. H. Logan. J Research Nat Bur Stand 28:57-71 Ja '42

Steel sheets with zinc coating that withstands severe forming. il Product Eng 13:564-6 O '42

See also

Galvanizing

Zinc plating

Testing

Report on dropping tests for zinc and cadmium coatings. W. E. Buck. Metal Finishing 40:242+ My '42

ZINC compounds

Durability of soap-treated zinc oxide paints. D. G. Nicholson and T. W. Mastin. bibliog il Ind & Eng Chem 34:996-1002 Ag '42

ZINC dithiocarbamates

Polysulfide theory of accelerator action during vulcanization; evidence for the theory. R. E. Morris. bibliog Ind & Eng Chem 34:503-6 Ap '42

ZINC dust

Formation of an azulene on zinc-dust distillation of pyrethrosin. M. S. Schechter and H. L. Haller. bibliog Am Chem Soc J 63:3507-10 D '41

Precipitation of gold from cyanide solution by zinc dust. R. Leblanc. bibliog diags Can Min J 63:213-19, 297-306, 371-9 Ap-Je '42

ZINC hydroxide

Desulfurizing properties of zinc hydroxide. K. A. Musatov and L. G. Krymova. Oil & Gas J 41:40-1 My 21 '42

ZINC industry and trade

Zinc smelting developments. Economist 142:659 My 9 '42

Statistics

Lead and zinc ores in the United States; census report. Eng & Min J 142:46 D '41

Zinc, 1941. M. L. Havey. Eng & Min J 143:43-4 F '42

United States

Earnings in mining and processing of nonferrous metals, June 1942. H. Ober, F. W. Mohr and A. C. Lakenan. Monthly Labor R 55:830-8 O '42

Earnings in the smelting and refining of nonferrous metals, August 1941. H. Ober and J. Loft. Monthly Labor R 55:129-47 Jl '42

Lead and zinc groups formed to advise WPB. Oil Paint & Drug Rep 142:4+ Jl 27 '42

Non-ferrous metals at war. T. E. Lloyd. il Iron Age 149:113-16 Ja 1 '42

Outlook for zinc. W. G. Woolf. il Min Cong J 28:35-6 F '42

Zinc; its supply and demand in the United States under war conditions. H. I. Young. il Min & Met 23:15-17 Ja '42

Zinc output up 11 percent in 1941. Oil Paint & Drug Rep 141:57 Ap 27 '42

ZINC iodate

Solubility of potassium iodate and zinc iodate in dioxane-water mixtures; effect of sorting of solvent molecules. J. E. Ricci and G. J. Nesse. bibliog Am Chem Soc J 64:2305-11 O '42

ZINC lining

Relining tube mill with zinc. W. B. Lenhart. Rock Prod 45:31 S '42

ZINC metallurgy

Elemental sulphur; extraction and reduction of sulphur dioxide from roaster gases at Trail. il Can Chem & Process Ind 26:138-9 Mr '42

Making a three-metal separation at the Duquesne group; Callahan Zinc-Lead's flotation plant. J. B. Huttl. flowsheet il Eng & Min J 142:56-8 N '41

Metallurgy of zinc, 1941. H. R. Hanley. il Min & Met 23:79-80 F '42

Mines bureau to build $350,000 pilot plant for gas reduction of zinc ores. Steel 111:54 Ag 10 '42

New zinc process; methane treatment of concentrates, U.S. Bureau of mines. Chem Age (Lond) 47:343 O 17 '42

Removal of copper and cadmium in the hydrometallurgy of zinc; abstract. G. T. E. Graham and T. Thorvaldson. Chem & Met Eng 49:224 S '42

ZINC metallurgy—*Continued*

Tri-state today. T. L. Wells. il map Explosives Eng 19:328-34 N '41

Zinc metallurgy, 1941. S. M. Shelton and H. R. Hanley. Eng & Min J 143:87-8 F '42

Electrometallurgy

Electrolytic zinc operations; abstract. C. R. Ince. Chem & Met Eng 49:160 Jl '42

ZINC mines and mining

Bureau of mines develops instruments to aid in reclaiming zinc, lead ores. R. R. Sayers. Steel 111:38 Jl 27 '42

Colorado

Revived Rico mines aid war effort. A. S. Park. il Comp Air M 47:6782-6 Jl '42

Idaho

Control of ore by rock structure in a Coeur d'Alene mine. H. E. McKinstry and R. H. Svendsen. diags maps Econ Geol 37:215-30 My '42

Making a mine dump give to the war effort; with cost data. J. R. Villars. il Min Cong J 28:21-3 N '42

Kansas-Oklahoma-Missouri district

Determining pressure zones in mine pillars. il Min Cong J 28:36-7 Ag '42; Excerpts. Can Min J 63:672 O '42

Mechanical loaders help solve a war problem; Tri-state zinc mining district. W. F. Netzeband. il diags Min Cong J 28:18-20 N '42

Tri-state today. T. L. Wells. il diags maps Explosives Eng 19:262-6, 278-80, 306-11, 328-34 S-N '41

Turbine pumps do their bit for zinc; unwatering mines in Tri-state area. W. F. Netzeband. il Min Cong J 28:18-19 Ag '42

Tennessee

Solving a mine-water problem at Mascot; grouting is employed to seal a crevice. W. Black. diags Eng & Min J 143:46-8 O '42

United States

Lead and zinc ores in the United States; census report. Eng & Min J 142:46 D '41

ZINC ores

Control of ore by rock structure in a Coeur d'Alene mine. H. E. McKinstry and R. H. Svendsen. diags maps Econ Geol 37:215-30 My '42

Post-mine leaching of galena and marmatite at Broken Hill. M. D. Garretty and R. Blanchard. il map Econ Geol 37:365-407 Ag '42

ZINC oxides

Adsorption of vapors by crystalline solid surfaces. D. M. Gans, U. S. Brooks and G. E. Boyd. bibliog il diag Ind & Eng Chem Anal ed 14:396-9 My 15 '42

Durability of soap-treated zinc oxide paints. D. G. Nicholson and T. W. Mastin. bibliog il Ind & Eng Chem 34:996-1002 Ag '42

Effect of barium oxide and zinc oxide on properties of soda-dolomite lime-silica glass. bibliog Am Cer Soc J 25:61-9 F 1 '42

Electrical conductivity of zinc oxide. P. H. Miller, jr. bibliog diag Phys R 60:890-5 D 15 '41

Lead and zinc pigments, 1941. Chem & Met Eng 49:103-4 F '42

Sales gained in 1941; production, sales and value of zinc oxide and leaded zinc oxide, 1937-1941. Oil Paint & Drug Rep 141:43 Je 15 '42

Zinc oxide as a paint pigment. Paint Oil & Chem R 104:22 Je 4 '42

Zinc oxide in machine lubrication. Engineering 152:468 D 12 '41

Zinc oxide sales set high mark in 1941. Oil Paint & Drug Rep 141:7+ Ap 20 '42

ZINC plating

Electrolytic zinc coated wire; Bethanized wire. L. H. Winkler. flow sheet il Metal Finishing 40:76-83 F '42

Interpretation of the mechanism of bright electroplating. J. A. Henricks. bibliog Electrochem Soc Trans 82 (preprint 22):237-56 O '42

Plating zinc on steel from waste materials; Hubbell-Weisberg process. Product Eng 13:358 Je '42

Study of the mechanism by which colloids (dextrin) influence electroplating with zinc and cadmium; abstract. P. F. Mikhalev. Chem & Met Eng 49:162-3 Ap '42

See also

Galvanizing

ZINC silicate

Fluorescence of phosphors in the rare gases. G. R. Fonda and H. Huthsteiner. bibliog Opt Soc Am J 32:156-60 Mr '42

ZINC sulfate

Lead and zinc pigments, 1941. Chem & Met Eng 49:103-4 F '42

Zinc sulphate sales up 61% in 1941. Oil Paint & Drug Rep 142:49 Jl 20 '42

ZINC sulfide

Darkening of materials by light. F. Seitz. diag J Ap Phys 13:639-43 O '42

Luminescent pigments and coatings. G. F. A. Stutz. Opt Soc Am J 32:626-8 O '42

Zinc sulphide pigments pool set. Oil Paint & Drug Rep 141:7+ My 11 '42

See also

Marmatite

ZINC sulfite

Heat transfer to clouds of falling particles; flash calciner for decomposition of zinc sulfite. H. F. Johnstone, R. L. Pigford and J. H. Chapin. diags Ill U Eng Exp Sta Bul 330:1-55 '41 (pa 65c)

ZIONISM

Brandeis on Zionism; a collection of addresses and statements. L. D. Brandeis. 156p $1.50 Zionist organization of Am, 1720 16th st, NW, Washington, D.C. '42

Middle East; its power politics; intrigue and the strong man are the keys. R. Strausz-Hupé and R. S. Nathan. Fortune 26:222, 224 N '42

ZIRCONIA. See Zirconium oxide

ZIRCONIUM

Applications of zirconium; abstract. A. Furia. Metals & Alloys 16:344 Ag '42

Analysis

Ferrocyanide method for separation of hafnium from zirconium. W. C. Schumb and F. K. Pittman. Ind & Eng Chem Anal ed 14:512-15 Je 15 '42

ZIRCONIUM oxide

Studies on the hydrogel of zirconia; the time of set. C. B. Hurd, W. A. Fallon and R. W. Hobday. bibliog Am Chem Soc J 64:110-14 Ja '42

Zirconia-magnesia spinel system. R. F. Mather. bibliog il Am Cer Soc J 25:93-6 F 1 '42

Zirconium oxide and thorium oxide in ceramics. N. J. Kreidl. Am Cer Soc J 25:129-41 bibliog(p138-41) Mr 1 '42

ZONING

Zoning land for recreation. G. S. Wehrwein and H. A. Johnson. J Land & Pub Util Econ 18:47-57 F '42

ZONING laws

Detroit zoning ordinance amended to meet war needs. Eng N 129:sup170+ O 22 '42

Look before you forge; scope of protection from suits furnished by zoning ordinances should be considered carefully before erecting plant. L. Childs. Am Mach 86:655 Je 25 '42

Ordnance causes ordinance in Crawford county, Pennsylvania; TNT plant results in zoning. L. F. Diehl. J Land & Pub Util Econ 18:357-63 Ag '42

ZONING of distribution. See Marketing—Zoning regulations

ZOOGLEA ramigera

Cultural characteristics of zooglea-forming bacteria isolated from activated sludge and trickling filters. E. Wattie. bibliog pl Pub Health Rep 57:1519-34 O 9 '42

ZOOLOGICAL gardens
Bronx zoo goes modern. R. G. Skerrett. il Comp Air M 47:6680-3 Mr '42

ZOOLOGICAL society, London
Julian S. Huxley, secretary of the Zoological society of London. Science 96:290 S 25 '42
Reports. Science 96:245-6 S 11 '42

ZOOLOGY
Zoology in 1941. M. L. Gabriel and H. B. Steinbach. bibliog il Chem & Eng N 20:257-61 F 25 '42

Nomenclature

Endorsement of the use of generic names as common nouns. C. D. Beers. Science 96:403-4 O 30 '42

ZOOLOGY, Economic
Outlines of economic zoology. A. M. Reese. 4th ed 359p bibliog(p329-40) $3.25 Blakiston '42

ZWORYKIN, Vladimir Kosma, 1889-
Portrait. Fortune 25:66 Ap '42

3 8198 304 672 593
UNIVERSITY OF ILLINOIS AT CHICAGO

THIS BOOK IS FOR USE
ONLY IN THE LIBRARY
IT DOES NOT CIRCULATE